

CCCCCCCCCCCC	00000000	BBBBBBBBBBBB	RRRRRRRRRR	TTTTTTTTTTTT	LLL
CCCCCCCCCCCC	00000000	BBBBBBBBBBBB	RRRRRRRRRR	TTTTTTTTTTTT	LLL
CCCCCCCCCCCC	00000000	BBBBBBBBBBBB	RRRRRRRRRR	TTTTTTTTTTTT	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCC	000	000	RRR	RRR	LLL
CCCCCCCCCCCC	00000000	BBBBBBBBBBBB	RRR	RRR	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	00000000	BBBBBBBBBBBB	RRR	RRR	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	00000000	BBBBBBBBBBBB	RRR	RRR	LLLLLLLLLLLLLLLL

```

CCCCCCCC 000000 BBBB8888 AAAAAA CCCCCCCC CCCCCCCC DDDDDDD DD WW WW KK KK
CCCCCCCC 000000 88888888 AAAAAA CCCCCCCC CCCCCCCC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CC 00 00 BB BB AA AA CC CCCCCC CC DDDDDDD DD WW WW KK KK
CCCCCCCC 000000 88888888 AA AA CCCCCCCC CCCCCCCC DDDDDDD DD WW WW KK KK
CCCCCCCC 000000 88888888 AA AA CCCCCCCC CCCCCCCC DDDDDDD DD WW WW KK KK

```

```

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

```



```

1 0001 0 MODULE COBSACC_DAYWEEK (
2 0002 0 IDENT = '1-006'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1 ++
30 0030 1 FACILITY: COBOL SUPPORT
31 0031 1
32 0032 1 ABSTRACT
33 0033 1
34 0034 1
35 0035 1
36 0036 1 ENVIRONMENT: Vax-11 User Mode
37 0037 1
38 0038 1 AUTHOR: MLJ , CREATION DATE: 16-JAN-1979
39 0039 1
40 0040 1 MODIFIED BY:
41 0041 1
42 0042 1 1-001 - Original. MLJ 16-JAN-1979
43 0043 1 1-002 - Added boilerplate and comments. RKR 18-JULY-1979
44 0044 1 1-003 - Declare psects via library macro. RKR 23-AUG-1979
45 0045 1 1-004 - Change symbolic name of LIBRARY. RKR 1-OCT-79
46 0046 1 1-005 - Cosmetic changes. RKR 18-OCT-79
47 0047 1 1-006 - Rewrite to use simplified algorithm. MLJ 02-Aug-81
48 0048 1
49 0049 1 --
50 0050 1
51 0051 1 !<BLF/PAGE>

```

! file: COBACCDWK.B32 EDIT:MLJ1006

```
.. 53 0052 1 |  
.. 54 0053 1 | SWITCHES  
.. 55 0054 1 |  
.. 56 0055 1 |  
.. 57 0056 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
.. 58 0057 1 |  
.. 59 0058 1 |  
.. 60 0059 1 | LINKAGES  
.. 61 0060 1 |  
.. 62 0061 1 | NONE  
.. 63 0062 1 |  
.. 64 0063 1 | TABLE OF CONTENTS:  
.. 65 0064 1 |  
.. 66 0065 1 | FORWARD ROUTINE  
.. 67 0066 1 |  
.. 68 0067 1 | COBSACC_DAYWEEK : NOVALUE;  
.. 69 0068 1 |  
.. 70 0069 1 | INCLUDE FILES  
.. 71 0070 1 |  
.. 72 0071 1 |  
.. 73 0072 1 | REQUIRE 'RTLIN:RTLPSPECT' ; ! Macros for declaring psects  
.. 74 0167 1 | LIBRARY 'RTLSTARLE';  
.. 75 0168 1 |  
.. 76 0169 1 |  
.. 77 0170 1 | MACROS  
.. 78 0171 1 |  
.. 79 0172 1 | NONE  
.. 80 0173 1 |  
.. 81 0174 1 | EQUATED SYMBOLS  
.. 82 0175 1 |  
.. 83 0176 1 | NONE  
.. 84 0177 1 |  
.. 85 0178 1 | PSECT DECLARATIONS:  
.. 86 0179 1 |  
.. 87 0180 1 | DECLARE_PSECTS (COB) ; ! Psects for COB$ facility  
.. 88 0181 1 |
```



```

90 0182 1 GLOBAL ROUTINE COBSACC_DAYWEEK(DST): NOVALUE=
91 0183 1
92 0184 1 ++ FUNCTIONAL DESCRIPTION
93 0185 1
94 0186 1 Returns day_of_week as 1 - 7 corresponding to Mon. - Sun.
95 0187 1
96 0188 1 FORMAL PARAMETERS:
97 0189 1
98 0190 1 DST.wt.ds Address of descriptor of string to receive ans.
99 0191 1
100 0192 1 IMPLICIT INPUTS:
101 0193 1
102 0194 1 Date as supplied by $GETTIM.
103 0195 1
104 0196 1 IMPLICIT OUTPUTS:
105 0197 1
106 0198 1 NONE
107 0199 1
108 0200 1 ROUTINE VALUE:
109 0201 1 COMPLETION CODES:
110 0202 1
111 0203 1 NONE
112 0204 1
113 0205 1 SIDE EFFECTS:
114 0206 1
115 0207 1 NONE
116 0208 1
117 0209 1 --
118 0210 1
119 0211 1 BEGIN
120 0212 1 MAP
121 0213 1 DST: REF BLOCK[,BYTE]; ! Pointer to destination descriptor
122 0214 1 LOCAL
123 0215 1 SYSTIM: VECTOR[2], ! Buffer for $GETTIM
124 0216 1 QUOTIENT, ! Quotient from division
125 0217 1 REMAINDER, ! Remainder (discarded)
126 0218 1 BUFFER; ! Buffer for output character
127 0219 1 BUILTIN
128 0220 1 EDIV;
129 0221 1
130 0222 1
131 0223 1
132 0224 1 ++
133 0225 1 Get the system date and time. Divide by the number of least significant
134 0226 1 bits in a day (864 x 10**9) to get the number of days since 17-Nov-1858.
135 0227 1 Bias this result to account for day 0 being a Wednesday. Then, take the
136 0228 1 result modulo 7 to get the day of the week such that Monday results in 0.
137 0229 1 Finally, bias the result by ASCII '1' to get the answer as desired and
138 0230 1 return it.
139 0231 1 --
140 0232 1 $GETTIM(TIMADR=SYSTIM);
141 0233 1 EDIV(%REF(1000000000), SYSTIM, QUOTIENT, REMAINDER); ! Div by 10**9
142 0234 1 QUOTIENT = .QUOTIENT / 864; ! Finish
143 0235 1 BUFFER = ((.QUOTIENT + 2) MOD 7) + %C'1';
144 0236 1 CH$COPY(1, BUFFER, %C' ', .DST[DSCSW_LENGTH], .DST[DSCSA_POINTER]);
END;

```

```

                    003C 00000
                    SE      04      0C      C2 00002
                    AE      9F 00005
50      51      00000000G 00      01      FB 00008
                    04      AE 3B9ACA00 8F      7B 0000F
                    51      00000360 8F      C6 00019
7E      02      51      8E      01      7A 00020
50      50      8E      07      7B 00025
                    6E      31      A0      9E 0002A
                    50      04      AC      D0 0002E
60      20      6E      01      2C 00032
                    04      B0      00037
                    04      00039
    
```

```

.TITLE COBSACC_DAYWEEK
.IDENT \1-006\
.EXTRN SYSSGETTIM
.PSECT _COB$CODE,NOWRT, SHR, PIC,2
.ENTRY COBSACC_DAYWEEK, Save R2,R3,R4,R5      : 0182
SUBL2 #12, SP                                  :
PUSHAB SYSTM                                   : 0231
CALLS #1, SYSSGETTIM                           :
EDIV #1000000000, SYSTM, QUOTIENT, REMAINDER  : 0232
DIVL2 #864, QUOTIENT                            : 0233
EMUL #1, QUOTIENT, #2, -(SP)                   : 0234
EDIV #7, (SP)+, R0, R0
MOVAB 49(R0), BUFFER
MOVL DST, R0                                     : 0235
MOVCS #1, BUFFER, #32, (R0), a4(R0)
RET                                              : 0236
    
```

; Routine Size: 58 bytes, Routine Base: _COB\$CODE + 0000

```

: 145      0237 1
: 146      0238 0 END ELUDOM
    
```

PSECT SUMMARY

Name	Bytes	Attributes
_COB\$CODE	58	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	5	0	581	00:00.7

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LISS:COBACCDWK/OBJ=OBJS:COBACCDWK MSRCS:COBACCDWK/UPDATE=(ENHS:COBACCDWK

COBSACC_DAYWEEK
1-006

K 12
15-Sep-1984 23:48:40
14-Sep-1984 12:10:21

VAX-11 Bliss-32 V4.0-742
[COBRTL.SRC]COBACCDWK.B32;1

Page 5
(3)

:)
:
: Size: 58 code + 0 data bytes
: Run Time: 00:02.4
: Elapsed Time: 00:13.8
: Lines/CPU Min: 5876
: Lexemes/CPU-Min: 20000
: Memory Used: 42 pages
: Compilation Complete

TYPMAIN LIS

COBPROLOG REQ

COBACCDAT LIS COBACCDWK LIS

UNLOCK LIS

UTILSUBS LIS

INTPAR SOL

COBDEF REQ

COBRTL COBLNK REQ

COBRTL MAP

COBACCDAY LIS COBACCECU LIS

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