

P. 1000 xt mad
No current

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EXTERNAL FUNCTION(A1, A2, A3, A4)
VECTOR VALUES NM(1) = 31,59,90,120,151,181,212,243,273,304
:1 ,334,365
NORMAL MODE IS INTEGER
VECTOR VALUES MAGIC = 50167273K
VECTOR VALUES D0 = 2
:R
ENTRY TO NDAYS.
YEAR = A1
MONTH = A2
DAY = A3
ANS = (YEAR-1)*365 + NM(MONTH-1) + DAY-1 + YEAR/4
WHENEVER MONTH.LE. 2 .AND. YEAR.E. (YEAR/4)*4
ANS = ANS - 1
END OF CONDITIONAL
FUNCTION RETURN ANS
:R
ENTRY TO NMIKE.
DAYS = A1
HOURS = A2
MINS = A3
SECS = A4
OCTS = DAYS/8
DAYS = DAYS - OCTS*8
OCT = OCTS*MAGIC + ((.ABS.(DAYS*MAGIC)).RS.3)
:1 + ((HOURS*5625000 + MINS*937500 + SECS*15625) .RS. 10)
FUNCTION RETURN OCT
:R..
:R.. COMPUTE DAY OF WEEK. SUNDAY IS DAY 1,
:R.. SATURDAY IS DAY 7.
:R
ENTRY TO DWEEK.
TDAYS = A1 + D0
DW = TDAYS - (TDAYS/7)*7 + 1
FUNCTION RETURN DW
:R..
:R.. DAYLIT. HAS VALUE 1 IF DATE FALLS IN DAYLIGHT
:R.. SAVINGS TIME PERIOD, 0 OTHERWISE.
:R..
ENTRY TO DAYLIT.
DW = A1
MONTH = A2
DAY = A3
WHENEVER MONTH.G. 4 .AND. MONTH.L. 10, FUNCTION RETURN 1
WHENEVER MONTH.E. 4
WHENEVER (8-DW).G. (30-DAY), FUNCTION RETURN 1
OR WHENEVER MONTH.E. 10
WHENEVER (8-DW).LE. (31-DAY), FUNCTION RETURN 1
END OF CONDITIONAL
FUNCTION RETURN 0
:R
END OF FUNCTION
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