
Subject: Re: days of the week

Posted by [Martin Downing](#) on Mon, 25 Mar 2002 17:07:43 GMT

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OK, how about an amalgam of David's and Craigs methods:

```
FUNCTION WhatDayIsIt, jul_day = jdate, year=year, month=month, day=day,  
NUMBER=NUMBER
```

```
;+
```

```
; Return the day of the week given either the JULDATE
```

```
; or
```

```
; the date as DAY , MONTH, YEAR
```

```
; NUMBER: return the number of days from sunday instead of the string day  
name
```

```
;-
```

```
; convert input to julday
```

```
IF N_Elements(jdate) EQ 0 THEN begin
```

```
  if N_Elements(day) EQ 1 THEN begin
```

```
    jdate = Julday(month, day, year)
```

```
  endif else begin
```

```
    jdate = Systime(/Julian)
```

```
  endelse
```

```
endif
```

```
; Julday of any old Sunday
```

```
jdate_sunday = 2452358L ;= Julday(3,24,2002)
```

```
; What day of the week is it? (note the use of round)
```

```
dow = ( (round(jdate) - jdate_sunday ) mod 7 )
```

```
dow = (dow +7 ) mod 7
```

```
if keyword_set(NUMBER) EQ 0 then begin
```

```
  ; return a string day-name
```

```
  daysOfWeek = ['Sunday', 'Monday', 'Tuesday', 'Wednesday', $  
                'Thursday', 'Friday', 'Saturday']
```

```
  dow = daysOfWeek[dow]
```

```
endif
```

```
RETURN, dow
```

```
END
```

```
IDL> print, WhatDayIsIt(jul = systime(/jul))
```

```
Monday
```

```
IDL> profiler, /report
```

Module Type Count Only(s) Avg.(s) Time(s) Avg.(s)

WHATDAYISIT (U) 1 0.000065 0.000065 0.000065 0.000065

--

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"trouble" <the_cacc@hotmail.com> wrote in message
news:5f9f0a23.0203210321.25c748ff@posting.google.com...

> David Fanning <david@dfanning.com> wrote in message
news:<MPG.17025cedc0db98d798983c@news.frii.com>...

>>

>> P.S. Sorry for the FOR loop. I was in a hurry. :-(

>>

>

> Tsk, according to my timings that FOR loop is costing us 0.0009 seconds.

> Maybe OK for some, but what if ya gots to know the day *now*? Maybe also

> consider using IntArr(7,/NOZERO)? ;)
