
Subject: Re: JULDAY 5.4 not same as 5.3?

Posted by [Mark Hadfield](#) on Sun, 04 Mar 2001 20:14:39 GMT

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"Don Woodraska" <don.woodraska@lasp.colorado.edu> wrote in message
news:3A9FE8D9.8E9BE7DA@lasp.colorado.edu...

> I've pinpointed the problem.

>

> SUMMARY:

> ***

> The bug appears only with unsigned-long and unsigned-64-bit-long hour
argument

> to JULDAY.

>

> The bug appears on lines 178-179 of JULDAY.PRO. Here it is:

> ...

Well done, Dan. To correct my earlier post, this DOES also occur on windows.
In the list of data values in your original post, i.e...

```
>>> UMM      LONG    =      2
>>> UDD      LONG    =     16
>>> UYEAR    LONG    =    2001
>>> UHR      ULONG   =      0
>>> UMIN     ULONG   =      0
>>> USEC     ULONG   =      0
```

...I missed the fact that the hour minute & second values are ULONG and not
LONG. (Though I did wonder why you put a "U" prefix on the variable names!)

I wonder how many other routines can be broken if you pass unsigned-integer
values to them. And how paranoid does a person writing a routine have to be?

Final comment: Isn't JULDAY's argument order ghastly? Month, day, year,
hour, minute, second? I mean, really!

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