
Subject: two issues with julian dates

Posted by [Josh](#) on Wed, 11 Jul 2007 21:51:17 GMT

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I've got date and time strings that I've parsed into their respective hour/minute/etc and month/day/etc form and I'm using the `julday()` function to turn them into julian dates. I've come across two problems that hopefully somebody can help me with.

First off, according to NASA (<http://ssd.jpl.nasa.gov/tc.cgi#top>), the returned value of `julday()` is incorrect. When I use 11/18/2003 at 16:14:43, I get 2452955.2 from IDL and 2452962.1768866 from NASA. Thoughts?

Second, the fact that `julday()` only returns a value with ONE digit after the decimal is not cool. If it returns a double floating point value, shouldn't I be able to get 14 sig figs? The time scales in my data set are such that I need that resolution. Thoughts?

Thanks for any advice,
-Josh
