
Subject: Re: two issues with julian dates

Posted by [Josh](#) on Thu, 12 Jul 2007 20:25:30 GMT

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On Jul 12, 1:51 pm, David Fanning <n...@dfanning.com> wrote:

> Josh writes:

>> First of all, thank you educating me about this. I read a number of
>> your articles on the precision of numbers, and I've finally got the
>> double precision values I was seeking. However, when I try to put
>> them on an x-axis, they appear to revert back to single precision
>> values. The array of values are definitely double precision, and I
>> set xtickformat='(F20.5)', but sadly the labels appear to be (single)
>> floats disguised in the F20.5 format, and the data being plotted is
>> clumped into groups instead of nice and continuous (perhaps because it
>> sees big gaps in the x values due to their single precision?). I am
>> hoping this is a minor step I've missed in the keywords to PLOT.

>

> The more I think about this, the more likely it seems to me
> that the problem comes from converting doubles to strings.

> Have you read this article?

>

> http://www.dfanning.com/misc_tips/dbl_to_str.html

>

> You might well have to write your own tick formatting function
> to make this work the way you want it to work. It's just hard
> to tell without seeing what you are doing.

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

As far as I know, the only conversion I've done is actually to convert strings to doubles. The input file is read as a big long string, then the pieces are broken out and some (these) are converted to doubles. I've sent you an email with some of my code. Perhaps it will help.
