Subject: Re: PLOT procedure (was: Julian Day Numbers)
Posted by Craig Markwardt on Tue, 21 Nov 2000 08:00:00 GMT
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James Tappin <sjt@star.sr.bham.ac.uk> writes:

> One real gotcha with Julian day numbers is if you try to use them for a
> time axis on a plot.
>
> It works fine for long time axes, but if you try looking at high-resolution
> data things look really messy.
>
> The problem is that PLOT converts to single-precision before converting
> coordinates to data and this means that all values are truncated to the
> nearest quarter day (for IEEE floats).

I agree that double precision plotting is important. Sometimes you
just need it. However I think that in this case you really want to
subtract a time offset anyway. Consider that your axis labels will
never be pretty if you are using full Julian days. [for those that
don't know Julian days of this millenium number in the millions].
You can put in your XTITLE or TITLE the time offset and be done with
it.

Nit-pickily yours,
Craig

--
-- --------------
Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
-- --------------

Subject: Re: PLOT procedure (was: Julian Day Numbers)
Posted by Paul van Delst on Tue, 21 Nov 2000 08:00:00 GMT
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<snip>

Not any more.

--
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Subject: Re: PLOT procedure (was: Julian Day Numbers)
Posted by Martin Schultz on Wed, 22 Nov 2000 08:00:00 GMT
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Craig Markwardt wrote:
>
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> ---------- ----------
> Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
> Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
> ---------- ----------

... but then again: what if you use the tickformat keyword with the
label_date function? I recently gave this a try and had to be careful
with roundoff errors (in IDL5.3).

Martin

--
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