Subject: Re: julday() and fractional days
Posted by Conor on Thu, 01 Nov 2007 15:25:51 GMT
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On Nov 1, 10:39 am, Craig Markwardt
<craigm...@REMOVEcow.physics.wisc.edu> wrote:
> Bob Crawford <Snowma...@gmail.com> writes:
>> Perhaps I'm missing something but why would one expect a JULDAY
>> function that is passing hour, minute and second data to also accept
>> fractional days?
>
>> I can understand that if you did: print,julday(12,31.2,2005) one might
>> expect the fractional days to be handled, but not when the smaller
>> time units are explicitedly present.
>
>> What would the correct output of, say,
>> print,julday(12,31.2,2005,6,0,0) be?
>
> I don't know, but because of IDL JULDAY()'s insane behavior, I can
> tell you that it would be different than,
>
>   print,julday(12,31.2,2005) + 0.25
>
> Craig
>
> --
> -- --------------
> Craig B. Markwardt, Ph.D.   EMAIL: craigm...@REMOVEcow.physics.wisc.edu
> Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
> -- --------------

I suppose for the very flexible solution you would hope for julday to
start with something like:

function julday,mon,day,year,hr,min,sec

min += (sec - floor(sec))/60.0
hr += (min - floor(min))/60.0
day += (hr - floor(hr))/24.0
year += (mon - floor(mon))/12.0
day += (year - floor(year))*365

then you can have the best of both worlds.