View Forum Message <> Reply to Message On Oct 30, 8:02 pm, Ed Hyer <ejh...@gmail.com> wrote: > OK, if you search c.l.i-p for this you'll find a post from Craig > Markwardt wherein he laments that JULDAY "doesn't handle fractional > days". Someone replies to say yes it does, but I think that person > misunderstood. > IDL> print, julday(12,31,2005,0,0,0) 2453735.5 IDL> print,julday(12,31.2,2005,0,0,0) 2453735.5 > > I'm really unhappy with IDL right now. Hi Ed. Would this work for you? IDL> print,eh julday(12,31,2005,0,0,0) 2453735.5 IDL> print,eh\_julday(12,31.2,2005,0,0,0) 2453735.7 \*\*\*BEGIN FUNCTION EH JULDAY, mon, day, year, hour, min, sec case N\_PARAMS() of 6: j = JULDAY(mon, day, year, hour, min, sec) 3: j = JULDAY(mon, day, year) ELSE: MESSAGE, '3 or 6 arguments required' endcase return, j + (day - FLOOR (day)) end \*\*\*END

Subject: Re: julday() and fractional days

Posted by ben.bighair on Wed, 31 Oct 2007 02:20:51 GMT

Subject: Re: julday() and fractional days Posted by Craig Markwardt on Wed, 31 Oct 2007 15:49:35 GMT View Forum Message <> Reply to Message

Ed Hyer <ejhyer@gmail.com> writes:

Ben

- > OK, if you search c.l.i-p for this you'll find a post from Craig
- > Markwardt wherein he laments that JULDAY "doesn't handle fractional
- > days". Someone replies to say yes it does, but I think that person
- > misunderstood.

>

- > IDL> print,julday(12,31,2005,0,0,0)
- > 2453735.5
- > IDL> print, julday(12,31.2,2005,0,0,0)
- > 2453735.5

>

> I'm really unhappy with IDL right now.

I mostly use my own simple Julian day routine just to avoid all these annoying surprises.

But in your case it would \*almost\* be easy enough to work around it with something like,

IDL> print,julday(12,31,2005,0,0,0) + .2 2453735.7

or programmatically,

IDL> print, julday (month, floor(day), year, 0,0,0) + (day-floor(day))

But the annoyance is in taking the time to discover these quirks, and to remember them.

Craig

--

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

Subject: Re: julday() and fractional days Posted by Bob[3] on Wed, 31 Oct 2007 16:16:26 GMT View Forum Message <> Reply to Message

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.

Subject: Re: julday() and fractional days Posted by Craig Markwardt on Thu, 01 Nov 2007 14:39:02 GMT View Forum Message <> Reply to Message

Bob Crawford <Snowman42@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: craigmnet@REMOVEcow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response