Subject: Re: Time conversion for .nc file
Posted by David Fanning on Tue, 19 Nov 2013 15:11:31 GMT
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alx writes:

>
> Le mardi 19 novembre 2013 15:11:03 UTC+1, David Fanning a écrit :
>> Madhavan Bomidi writes:
>>
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>>
>>> How can we obtain the exact month, day, year, hour, min, sec from the ncdfTime created above? I tried to use the CALDAT but it is giving some crazy numbers for each of them. I am asking this because in order to plot the variables as a function of time, the jultime is more difficult to say about which day it corresponds to. Do you have any better suggestion?
>>
>>
>>
>> No other suggestions. CalDat works great. You just have to do the
>>
>> reverse of what you have done previously. Convert seconds to Julian
>>
>> days, add Julday(1,1,1970,0,0,0) to that result, and put that through
>>
>> the CalDat function. I've never known it to go wrong. :-)
>>
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>> Cheers,
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>>
>> David
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>> --
>>
>> David Fanning, Ph.D.
>>
>> Fanning Software Consulting, Inc.
>>
>> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>>
>> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
>
>
> For novice IDL users as well as experienced ones, may I add that:
>

> 1) "calendar format" is quite useful because it works in same way in both directions and can be used with arrays, i.e.
>
> IDL> reads, DATE, JD, format=FMT
> IDL> DATES = string(JD, format=FMT)
>
> where JD is array of doubles, DATES is array of date strings, and FMT is some calendar format.
>
> 2) axis plotting where time is expressed in Julian days is pretty easy to do by using XTICKUNITS keyword (this is true both in DG and NG !):
>
> IDL> plot, jd, data, XTICKUNITS='year' ;automatic labeling in years
> IDL> plot, jd, data, XTICKUNITS=['minute','hour'] ;double labeling in hours and minutes.
> etc...
> The axis can be further customized by using MINOR and XTICKINTERVAL keywords.

Sounds like it might be worth learning what the "calendar" format is all about. ;-)

Cheers,

David

--
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