Subject: Re: Five days mean values
Posted by Julio[1] on Thu, 06 Oct 2005 12:56:22 GMT
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Hi Kenneth,

I don't see how rebin can help me... An example, considering the meteorological data below, I want to find the temp(max) mean values from 01/08/2001 to 05/08/2001 and from 06/08/2001 to 10/08/2001...

So I have Temp (max) = 27.2 and 27.4

The problem is I have a very large amount of data. I can't see a way to find the mean value every five days.

Any comments welcome!

Regards,
Júlio

Kenneth Bowman escreveu:

> In article <1128546470.965721.312300@g49g2000cwa.googlegroups.com>,
> "Julio" <julio@cpa.unicamp.br> wrote:
>
>> Hello people,
>>
>> I have meteorological data from several years, like these:
>>
>> Date Temp (max) Temp (min)
>> 01/08/2001 27.2 12.7
>> 02/08/2001 27.8 12.4
>> 03/08/2001 26.8 16.3
>> 04/08/2001 26.6 12
>> 05/08/2001 27.4 11
>> 06/08/2001 27.6 16.1
>> 07/08/2001 27.6 11.2
>> 08/08/2001 28.4 13.4
>> 09/08/2001 27.2 10.9
>> 10/08/2001 26 9.7
>>
>> I want to calculate mean value from 01-05 days, 05-10 days, 10-15 days
>> and so on.
>> In other words, I must get the mean value at each five days.
>> I'm trying to make some code to get it automatically. I think this kind
>> of work is trivial for meteorological data users. Does anybody have
>> some idea?
>>

>> Regards,
>> Júlio
>
> If the data are in an array T, this is a very quick way to compute averages
>
> IDL> T = findgen(15)
> IDL> print, T
> 0.00000 1.00000 2.00000 3.00000 4.00000 5.00000
> 6.00000
> 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
> 13.0000
> 14.0000
> IDL> print, rebin(T, 3)
> 2.00000 7.00000 12.0000
>
> but make sure that the number of days is a multiple of 5 and that you have no
> missing data. Also, watch out for leap days.
>
> Ken Bowman
