Subject: Re: How to average every nth data?
Posted by beardown911 on Thu, 04 Nov 2010 20:12:25 GMT
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On Nov 4, 1:14 pm, Chris W <cwood1...@gmail.com> wrote:
> On Nov 4, 12:53 pm, go cats <beardown...@gmail.com> wrote:
>
>
>
>
>
>> Dear Gurus,
>
>> Hope someone will help me how to figure this out.
>> I've been keep trying to do some spectral resampling (just simple
>> average) with ASD data.
>> ASD data is a two dimensional array;
>
>> wavelength data
>> 350 0.001146
>> 351 0.001176
>> 352 0.001147
>> . .
>> . .
>> . .
>> 2500 0.0004311
>
>> What I've been trying to do is averaging every nth data values and
>> rewrite into a new array.
>> For example, if I want to average every 3rd data values, the resulting
>> array will be
>
>> 350 0.001150
>> 353 0.001147
>> and so on.
>
>> MS excel seems to be able to handle it, but it wouldn't be a good idea
>> for processing several hundres files.
>
>> I really appreciate if someone could give me tip(s).
>
>> Thanks,
>> Kim
>
> put the data into separate arrays
> then reform them
>
> rw = reform(w, 3, n_elements(w)/3) ; make sure w has a multiple of 3

> length
> rd = reform(d, 3, n_elements(d)/3)
>
> get the mean across the 1st dimension for the average
> result_d = mean(rd,dimension = 1)
> get the minimum across the wavelengths
> result_w = min(rw, dimension = 1)
>
> Chris- Hide quoted text -
>
> - Show quoted text -

Thanks Chris,

That works perfectly.

Kim
