
Subject: Re: How to average every nth data?

Posted by [Michael Galloy](#) on Thu, 04 Nov 2010 20:55:57 GMT

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On 11/4/10 2:31 PM, go cats wrote:

> 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 -
>
> Hi Chris,
>
> The "dimension" flag may not be used in the "mean" function.
> wavelength sorting was successful, but only one (total) mean value was
> calculated.
> I am digging out what I did wrong.
>
> Thanks,
> Kim
```

IDL 8.0 added the DIMENSION keyword for MEAN.

Mike

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