
Subject: Re: How to average every nth data?

Posted by [rogass](#) on Thu, 04 Nov 2010 23:23:25 GMT

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On 4 Nov., 18:53, 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

Hi Kim,

you could also use this:

```
range=3
```

```
new_w = total(reform(w,range,n_elements(w)/range),1)/range
```

or if you have missing values:

```
missing=0
```

```
new_w = total(((rr=reform(w,range,n_elements(w)/range),1)))/total(rr  
ne missing,1)
```

Cheers

CR
