Subject: Re: How to average every nth data?
Posted by Juggernaut on Thu, 04 Nov 2010 19:24:07 GMT

On Nov 4, 1:53 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

You can also do something like this.
x = indgen(50)
mean_1 = mean(x)
mean_2 = mean(x[0:*:2])
mean_3 = mean(x[0:*:3])

The third element in your indexing indicates a skipping parameter.