Subject: Re: How to average every nth data?
Posted by MC on Sat, 06 Nov 2010 13:37:38 GMT
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Just a thought, is there an aliasing risk in the resulting decimated spectrum (decimation can break the Nyquist sampling theorem)? If you just want to reduce data size/spectral resolution, rebin (or congrid) could be used which will also reduce noise.

Cheers

On Nov 5, 6:53 am, 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