Subject: Re: How to average every nth data? Posted by Jeremy Bailin on Fri, 05 Nov 2010 13:54:52 GMT View Forum Message <> Reply to Message

On Nov 4, 4:55 pm, Michael Galloy <mgal...@gmail.com> wrote: > 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 0.001150 >>>> 350 0.001147 >>>> 353 >>>> 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). >

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>>>> 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
> --www.michaelgalloy.com
> Research Mathematician
> Tech-X Corporation
If you're on pre-8, you can use the modifications of the intrinsic
routines here:
http://web.astroconst.org/jbiu/#MOMENTDIMEN
-Jeremy.
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