Subject: Averaging values in an array

Posted by wdolan on Tue, 21 Jul 2015 16:50:08 GMT

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So I've got an array called 'topscans' which is [333,9], so I am looking through 9 different scans, and each scan has 333 spectral points. I want to average each spectral point for the 9 scans. For example I want to average the first spectral point for all 9 runs, then the 2nd, then the third etc. So that in the end I have a set of 333 spectral points which represents an average of all 9 scans.

Thanks for your help!

Subject: Re: Averaging values in an array

Posted by a146397258 on Tue, 21 Jul 2015 16:56:43 GMT

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Something like:

result=fltarr(333) for i=0,332 do begin result[i]=(array[i,0]+array[i,1]+...+array[i,8])/8 endfor

Maybe? I might have messed up something with zero indexing, but something that follows that general idea should work.

Subject: Re: Averaging values in an array

Posted by wlandsman on Tue, 21 Jul 2015 16:58:46 GMT

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It sounds like you want

IDL> topscans_avg = mean(topscans,dimension=2)

On Tuesday, July 21, 2015 at 12:50:10 PM UTC-4, Wayana Dolan wrote:

> So I've got an array called 'topscans' which is [333,9], so I am looking through 9 different scans, and each scan has 333 spectral points. I want to average each spectral point for the 9 scans. For example I want to average the first spectral point for all 9 runs, then the 2nd, then the third etc. So that in the end I have a set of 333 spectral points which represents an average of all 9 scans.

> Thanks for your help!

Subject: Re: Averaging values in an array Posted by wdolan on Wed, 22 Jul 2015 15:10:39 GMT

Great, thank you, it worked!

On Tuesday, July 21, 2015 at 9:58:48 AM UTC-7, wlandsman wrote:

- > It sounds like you want
- >
- > IDL> topscans_avg = mean(topscans,dimension=2)

>

- > On Tuesday, July 21, 2015 at 12:50:10 PM UTC-4, Wayana Dolan wrote:
- >> So I've got an array called 'topscans' which is [333,9], so I am looking through 9 different scans, and each scan has 333 spectral points. I want to average each spectral point for the 9 scans. For example I want to average the first spectral point for all 9 runs, then the 2nd, then the third etc. So that in the end I have a set of 333 spectral points which represents an average of all 9 scans.

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