Subject: Averaging of my observations
Posted by Ali Gamal on Sun, 22 May 2016 13:42:46 GMT
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Hi, I have observation saved as .save files
I want to take Averaging for all observations.
How can I do it?

Subject: Re: Averaging of my observations
Posted by dg86 on Sun, 22 May 2016 14:36:04 GMT
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On Sunday, May 22, 2016 at 9:42:49 AM UTC-4, AGW wrote:
> Hi, I have observation saved as .save files
> I want to take Averaging for all observations.
> How can I do it?

If you have access to the online documentation for IDL, you should read
http://www.harrisgeospatial.com/docs/RESTORE.html
and
http://www.harrisgeospatial.com/docs/MEAN.html

The first link explains how to restore save files. The second explains how
to obtain the average value of an array.

Subject: Re: Averaging of my observations
Posted by Ali Gamal on Sun, 22 May 2016 14:49:09 GMT
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On Sunday, May 22, 2016 at 3:42:49 PM UTC+2, AGW wrote:
> Hi, I have observation saved as .save files
> I want to take Averaging for all observations.
> How can I do it?

thank you, but the result of mean function is one value, I want to take average for four dimensions.

Subject: Re: Averaging of my observations
Posted by wlandsman on Sun, 22 May 2016 15:50:41 GMT
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The MEAN() function will return a vector of values if you use the DIMENSION keyword.

On Sunday, May 22, 2016 at 10:49:11 AM UTC-4, AGW wrote:
> On Sunday, May 22, 2016 at 3:42:49 PM UTC+2, AGW wrote:

>> Hi, I have observation saved as .save files
>> I want to take Averaging for all observations.
>> How can I do it?
>
> thank you, but the result of mean function is one value, I want to take average for four dimensions.

Subject: Re: Averaging of my observations
Posted by Ali Gamal on Mon, 23 May 2016 11:39:46 GMT
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IDL> y=mean(x,dimension=1)
% Keyword DIMENSION not allowed in call to: MEAN
% Execution halted at: $MAIN$

Subject: Re: Averaging of my observations
Posted by on Mon, 23 May 2016 12:42:00 GMT
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Den måndag 23 maj 2016 kl. 13:39:48 UTC+2 skrev AGW:
> IDL> y=mean(x,dimension=1)
> % Keyword DIMENSION not allowed in call to: MEAN
> % Execution halted at: $MAIN$

OK, you are using IDL version < 8.

You can use total() instead of mean, and divide by the number of summed items. total() does support the dimension to sum over since before IDL 8, although not as a keyword but as the second parameter.

So you could do something like

IDL> dim=1
IDL> y=total(x,dim)/(size(x,/dim))[dim-1]
