Subject: Averaging timesteps on large geospatial dataset?
Posted by rjp23 on Tue, 17 Nov 2015 13:43:58 GMT
View Forum Message <> Reply to Message

It'd be great if someone could help me figure out a fast way to do this.

I have a high resolution, regularly gridded, global dataset with multiple timesteps. I want to average all the timesteps at each location.

For example the data is [3600, 1800, 30]

I want to get a [3600, 1800] array that for every lon/lat point has the average of those 30 timesteps.

Looping over all 3600*1800 points is obviously not the way to go...

Cheers

Rob

Subject: Re: Averaging timesteps on large geospatial dataset?
Posted by greg.addr on Tue, 17 Nov 2015 13:49:13 GMT
View Forum Message <> Reply to Message

try,

res=mean(data,dimension=3)

cheers,
Greg

Subject: Re: Averaging timesteps on large geospatial dataset?
Posted by rjp23 on Tue, 17 Nov 2015 13:52:23 GMT
View Forum Message <> Reply to Message

On Tuesday, November 17, 2015 at 1:49:18 PM UTC, greg...@googlemail.com wrote:
> try,
>
> res=mean(data,dimension=3)
>
> cheers,
> Greg

Ah IDL8 magic!

Thanks

Subject: Re: Averaging timesteps on large geospatial dataset?
Posted by Michael Galloy on Tue, 17 Nov 2015 17:38:17 GMT
View Forum Message <> Reply to Message

On 11/17/15 6:52 AM, rjp23@le.ac.uk wrote:
> On Tuesday, November 17, 2015 at 1:49:18 PM UTC, greg...@googlemail.com wrote:
>> try,
>>
>> res=mean(data,dimension=3)
>>
>> cheers,
>> Greg
>
> Ah IDL8 magic!
>
> Thanks
>

TOTAL has had a dimension parameter for a long time if you don't have access to IDL 8.0+.

Mike
--
Michael Galloy
www.michaelgalloy.com
Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)