
Subject: Averaging timesteps on large geospatial dataset?

Posted by [rjp23](#) on Tue, 17 Nov 2015 13:43:58 GMT

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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

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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

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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

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On 11/17/15 6:52 AM, rjp23@le.ac.uk wrote:

> On Tuesday, November 17, 2015 at 1:49:18 PM UTC, greg...@gmail.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

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Michael Galloy

www.michaelgalloy.com

Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)
