
Subject: Re: Reading part of a netcdf file?

Posted by [Paul Van Delst\[1\]](#) on Tue, 24 Sep 2013 16:46:58 GMT

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See:

http://www.exelisvis.com/docs/NCDF_VARGET.html

Similar to what David said, the COUNT and OFFSET keywords are the ones that should do the job for you (don't think you need STRIDE).

Just at the top of my head you'd need something like

COUNT=[144, 72, 17, X]

and for the first read

OFFSET=[0,0,0,0]

For the second read of X timesteps,

OFFSET=[0,0,0,X]

third,

OFFSET=[0,0,0,X*2]

etc..

I think I got the general idea right (anyone?). The X-related numbers may be off by one since count is 1-based and offset is 0-based and I always get 'em mixed up.

cheers,

paulv

On 09/24/13 11:26, rjp23@le.ac.uk wrote:

> I have a very large (22GB) netcdf file and I was hoping there was
> some way to read part of it at a time into IDL but I can't figure out
> how.

>

> For example, I have this variable:

>

> Var FLOAT = Array[144, 72, 17, 32161]

>

> The 4th dimension is time, i.e. there are 32161 timesteps.

>

> Is it possible to read only the first X in one go, then read the next

> X, etc meaning that less is stored in memory at once?

>

> Cheers

>

> Rob

>