Subject: Re: Faster way to "shift" array?
Posted by David Fanning on Tue, 11 Jun 2013 17:23:34 GMT
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Fabien writes:

> I also agree that sometimes it is impossible to overcome a subset
> problem without having to shift the data. Let's take the example of
> netcdf files, which have the nice capability to be subset _without_
> reading the full databox in the memory. If your subset goes something
> like: [-40, 40] in longitude and your data is in [0, 360] then you can't
> efficiently use the netcdf COUNT and OFFSET keywords.
> Data organized in [0, 360] has the bad property of cutting Europe and
> Africa in two, while [-180, 180] mostly cuts oceans. It depends on how
> often you use the data...

I'm certainly not arguing that data doesn't occasionally need to be reorganized, and I've certainly used the Shift function to do so. Rather, I'm arguing that I have rarely, if ever, used the shift function for the sole purpose of drawing a contour plot on a map projection. In fact, in this situation it rarely matters if your longitude vector goes from 0 to 360 or -180 to 180. The data should be drawn (God help us!) in the same location regardless. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")