

---

Subject: Re: Faster way to "shift" array?

Posted by [David Fanning](#) on Tue, 11 Jun 2013 13:04:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

rjp23@le.ac.uk writes:

> I have a longitude array which ranges from 0 to 360 but I want it to range from -180 to 180.  
>  
> Currently I'm doing this:  
> lon=shift(lon, n\_elements(lon)/2.)  
> lon[where(lon GT 180)]=lon[where(lon GT 180)]-360.  
>  
> The lon array is 3600 elements and the shift command is taking around 1 second. When  
multiplied by the thousands of files I need to handle this becomes quite a considerable time  
component.  
>  
> Is there a faster way to do this?

I think it is the Where function that is slowing you down. I've always  
used the formulas on this page to do the conversion. I've never noticed  
them being slow. :-)

[http://www.idlcoyote.com/map\\_tips/lonconvert.html](http://www.idlcoyote.com/map_tips/lonconvert.html)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

---