Subject: Re: Having trouble with code for data to image.
Posted by Jean H. on Wed, 26 Nov 2008 12:37:58 GMT
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mbweller@gmail.com wrote:
> Hello,
>
> I am running the code:
>
> image = fltarr(nx,ny)
> deltax = (xrange[1]-xrange[0])/float(nx)
> deltay = (yrange[1]-yrange[0])/float(ny)
> for i=0l,ndata-1 do $
> image[(left[i]-xrange[0])/deltax:(right[i]-xrange[0])/deltax , $
> (bottom[i]-yrange[0])/deltay:(top[i]-yrange[0])/deltay] =
> magnitude
> [i]
>
> where: nx=ny=180
> xrange= [-180,0]
> yrange = [-90,90]
> ndata = 32400 (or180^2 or nx*ny)
> eg left -180
> right -179
> top 90
> bottom 89
> magnitude 0.1648
>
> and i get the error when I run the code:
>
> % Subscript range values of the form low:high must be >= 0, < size,
> with low <= high: IMAGE
>
> I assume the problem is in the way that my data is ordered, and I have
> tried switching lows and highs around, but to no avail. I would
> imagine this is pretty simple to solve, but it is not clear to me
> right now.
>
> Any insight?
>
> Thanks,
>
> ~Matt

Hi,
with the data you provide, you are out of bounds...
(bottom[i]-yrange[0])/deltay:(top[i]-yrange[0])/deltay] ==> 179:180
... 180 is out of bound. Remember that indexing is from 0 to n-1. You

might want to throw a -1 in your indexes...
As Chris has suggested it, print your indexes and be sure they are correct!

Jean
