Subject: Re: Box Axes with Map Function
Posted by Paul Van Delst[1] on Tue, 04 Dec 2012 15:18:03 GMT

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Hello,

On 12/02/12 16:53, David Fanning wrote:
> Alain writes:
>
>> I think that you may also draw *only one* map projection, but by adding a second grid to the
map:
>>
>> mp1 = map('Equirectangular', CENTER_LONGITUDE=180, $
>>   POSITION=[0.1,0.1,0.90,0.75], $
>>   LABEL_POSITION = 0, BOX_AXES=1, $
>>   GRID_LATITUDE = 30, GRID_LONGITUDE = 45, $
>>   ASPECT_RATIO=0, LIMIT=[-89.99, 0, 89.99, 360])
>> mp1['Latitudes'].label_angle=90
>> mp1['Longitudes'].label_angle=0
>>
>> grid = MAPGRID($
>>   LONGITUDE_MIN=0, LONGITUDE_MAX=360, $
>>   LATITUDE_MIN=-90, LATITUDE_MAX=90, $
>>   GRID_LONGITUDE=45, GRID_LATITUDE=30, $
>>   LABEL_POSITION=1)
>> foreach g,grid.latitudes do g.label_angle=270
>> foreach g,grid.longitudes do g.label_angle=0
>
> I'm detecting a pattern here with function graphics.
> I try something and can't get it to work. I ask for
> help. No one helps me. I muck around for several weeks
> and finally cobble something together that works.
> I write an article to save everyone else the trouble
> of the two week muck-about, and within seconds someone
> writes in with the correct answer!

If it makes you feel any better, I don't see how Alain's answer is any
more "correct" compared to yours.

My take away from this: you have to jump through a bunch of arcane hoops
to get a result that previously was simple to achieve.

Reminds me of when I was talking with a Qantas pilot many years ago -
he'd been flying the latest, greatest 747's and was telling me about the
continual training and re-qualification he had to go through. his take
was something like "If they want me to jump through all those hoops to
fly those planes, that's fine with me".

This function graphics example is equivalent to all that hoop jumping, but with the reward being the beat up two-seat cessna at the local municipal airport.

> I guess I should probably think about writing the
> articles sooner. :-(

Additionally, it also been my experience with various OO languages (even IDL pre-OO-ish-ness) that there are several ways to achieve the same thing. What ends up being the idiomatic example can take a while to determine as the community cogitates over the issue.

cheers,

paulv

p.s. I'm a little bit down on my Function Graphics boosterism because lately I've had to plot many spectral and interfergram plots consisting of 2^19 points. My original DG code (using my own zooming widget) does it in a second or two - and I can zoom in and redisplay quickly at will inspecting the data. The FG replacement? Fuhgeddaboutit.