Subject: Re: possible bug in ps conversion when combining tv and contour
Posted by Robert.M.Candey on Tue, 22 Jul 1997 07:00:00 GMT
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In article <33D3E582.51B6@nrlssc.navy.mil>, Don Stark
<stark@nrlssc.navy.mil> wrote:

> Hi - I have an image that is the result of combining three elements.
> First using the mapping utilities a stereographic projection of the
> earth is set up. Then the elevation data is overlayed as a color image
> with the tv routine. Lastly, a pressure field is overlayed with the
> contour routine -- I've included the code below.
>
> When I display this as an x-windows image, it looks perfect. When I
> attempted to convert it to write as a color postscript file the images
> no longer overlap correctlyand are scaled differently. It looks like the
> tv image is no longer scaled correctly by the map_image and/or map_patch
> routines.
>
> Any help on this would be greatly appreciated. Thanks
>
> ;+
> ; Postscript output
> ;-
>   Set_Plot, "ps", /interpolate
>   Device, filename="temp.ps",/color, bits=8
>
>   map_set,90,0,0, /stereo,/isotropic,limit=[45,-180,90,180]
>   openr, unit,
> filepath('worldelv.dat',SUB=['examples','data']),/get_lun
>   elev = bytarr(360,360) & new_elev = bytarr(360,360)
>   readu, unit, elev
>   close, unit
>   elev = shift(elev,180,0)
>   new_elev = map_image(elev,sx,sy,/bilin)
>   tv,new_elev,sx,sy
>
>   map_grid, glinestyle=0,glinethick=1,charsize=1.2,
> /label,color=255
>   contour,temp_field,lon,lat,NLEVELS = 8,/FOLLOW,/overplot,
> color=203
>
>   Device, /Close
>
>   end

I generally use something of the form:

```
;  map_set or plot
  px = !x.window*!d.x_size
  py = !y.window*!d.y_size
  xWinsize = px(1)-px(0)
  yWinsize = py(1)-py(0)
  tv, data, px(0), py(0), xsize=xWinsize, ysize=yWinsize
```

However, map_image will return xsize and ysize for you to use in the call to tv as well. This is because Postscript uses scalable pixels.

--
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