Subject: Re: Diplay 2D data
Posted by pgrigis on Tue, 04 Dec 2007 20:43:22 GMT
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Hi,

I just want to point out that there exists an implementation in the
solarsoft library (which admittedly require the whole library
to be installed, as it calls many other routines) called spectro_plot,
which also allows for logarithmic axis (which I think is a nice
feature,
and not easy to implement from scratch). As an example, if you create
an image and axis with:

n=200
m=500
im=dist(n,m)
x=findgen(n)+10
y=findgen(m)+10

the plot resulting from

spectro_plot,im,x,y,xrange=[-100,300],yrange=[1,800],/ylog,/ no_ut,/
xstyle,/ystyle

is exactely what you would expect from a plot-compatible image
displayer such as the quick & dirty

contour,im,x,y,xrange=[-100,300],yrange=[1,800],/ylog,/xstyl e,/ystyle,/
fill,levels=indgen(256)/255.*max(im)

but faster and without the artifacts & smoothing from the contouring.
Mind the /no_ut keyword, though.

Cheers,
Paolo Grigis

Brian Larsen wrote:
>> I use Craig Markwardt's PLOTIMAGE (http://cow.physics.wisc.edu/~craigm/idl/graphics.html
>>) which
>> mostly allows one to use the PLOT syntax for displaying images. It
>> allows the image range (e.g. IMGXRANGE) to be different from the plot
>> range (XRANGE), but I don't think it performs the zero padding you are
>> looking for. --Wayne
>
> Amazing what you learn when you read this newsgroup, I didn't know
> about that function. I will study it and see if I can improve imagesc

> in some way (or if I should just use plotimage)
>
> Brian
>
> -- ----------
> Brian Larsen
> Boston University
> Center for Space Physics
