Subject: Re: Diplay 2D data Posted by Vince Hradil on Tue, 04 Dec 2007 14:43:35 GMT View Forum Message <> Reply to Message

On Dec 4, 4:26 am, Lasse Clausen <la...@lbnc.de> wrote: > Hi there. > > in one of the recent posts there was a link to Brian Larsen's homepage > and in particular his imagesc.pro. This reminded me that I wanted to ask a question related to the matter of image display with axes: > > What's the best way to display 2D colour-coded data with axes and what-> not? Or rather, what do people out there use? > > For a long time I used a routine called IMDISP which I downloaded > somewhere. It seems to be the same approach as Brian's, getting a 2D > array, using one of the TV commands to display it at a certain > position and the overplotting axes. I am not happy with that approach > because axes and image are completely unconnected, if I change the > axes ranges then I (or the display routine) needs to chop of bits of > the image array, otherwise the same image is displayed just with > different axes. More importantly, both mentioned routines cannot pad > zeros to the image such that the axis range is extended over the > extends of the image. This is important for me because I am anal and I > want my dynamic spectra plots to start at round times - but the data > doesn't. And also, since the pixels have finite dimensions, I really > also need to change the axes values to the exact position at the end > of the pixel. > > This then led me to write my own routine which uses POLYFILL. So > basically every pixel is drawn as a filled polygon with a certain > colour. This allows me to easily (in my mind) change the ranges without having to fiddle with the data. > However, not only is a FOR loop with POLYFILL slow but also a page of > three dynamic spectra with 8000x128 points now easily makes a 40MB > PostScript - not surprisingly, really. >

> 2D data?

> So to get back to the original question: How do other people display

>

> Cheers

> Lasse Clausen

I use tvim (http://www.astro.washington.edu/deutsch/idl/htmlhelp/ library28.html#TVIM) mostly out of habit, though. David has a nice tv/ tvscl replacement on his website, too http://www.dfanning.com/programs/tvimage.pro . I don't think either of these handle the axes the way you want them

to, though.	I always just extrac(t) the appropriate range and use
that.	

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