Subject: Re: Diplay 2D data

Posted by Jeff N. on Tue, 04 Dec 2007 16:07:24 GMT

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On Dec 4, 5:26 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.

>

- > So to get back to the original question: How do other people display
- > 2D data?

>

- > Cheers
- > Lasse Clausen

David's XImage program might be useful for you: http://www.dfanning.com/documents/programs.html#XIMAGE

Also note that ilmage displays images with axes if you want to go down

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