Subject: Re: display question
Posted by Martin Schultz on Mon, 09 Mar 1998 08:00:00 GMT
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Joseph Scott Stuart wrote:
>
> I have a sensor to calibrate in which the pixels are not laid out in a
> simple grid. I can construct an array that gives the X-Y coordinates
> (relative to some point on the focal plane) of the centers of each
> pixel, and I know the shape of each pixel. When taking calibration
> data from the sensor, I'll have an array that gives the intensity that
> each pixel is measuring. What I would like to do is make a display
> that shows a little box for each pixel, of the right size, in the
> right location with the measured intensity, and then be able to zoom
> in using the mouse cursor to select a box.
>
> I can probably get something to work by using convert_coord to get the
> device coordinates of each pixel corner, then constructing an array of
> the appropriate number of pixels, and using tv to display. But, there
> are over 15,000 pixels, and I fear that this will be much too slow.
> Are there any better ways to display a bunch of little boxes each with
> its own color at its own specified data coordinates?
>
> Thanks for any help!
>
> scott
>
> --
> Scott Stuart
> stuart at ll mit edu

if your boxes are very irregularily shaped, you may want to try the
POLYFILL command. I use this e.g. to fill 3D model grid boxes on any map
projection. Usually, 6 polygon point sare sufficient. But I am only
dealing with otoo 300 "pixels", so it may well be that 15000 will make
this approach too slow.

I guess the solution to your problem depends to a large extent on
(A) how different your pixels are, (B) how complicated their shape is,
and (C) whether you set your priority on a high resolution output (e.g.
postscript) or a fast screen output.

Martin.

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