Subject: Re: IMDISP and writing to Postscript
Posted by liamgumley on Fri, 27 Mar 2009 02:39:20 GMT
View Forum Message <> Reply to Message

On Mar 26, 7:13 pm, mooner <Emily.Wisnio...@gmail.com> wrote:
> Hi, I am using IDL to display some data. I find IMDISP to be perfect
> for this and it works great in 'x' windows. My image is (forgive me,
> I'm not quite sure how to describe this) is low resolution and I want
> it to be displayed as individual squares (of different colors) which
> IDL happily does in my x window. However when I write to postscript
> the image is 'blured' (I don't get well defined flat squares). I've
> played with all the keywords in device and imdsp but with no luck.
>
> Any suggestions?
>
> Cheers,
> Emily

Emily,

I can confirm that when your code sample is run in IDL 6.4 on OS X, and the PostScript file is viewed with Preview.app, the image is indeed smoothed. It appears to be happening in Preview when the Postscript file is converted to PDF. I'm guessing that the same thing will happen regardless of the IDL code used to display the image.

Here is a workaround, perhaps it will meet your needs. If your image is truly small (less than 10 rows by 10 columns), you could always do something like this:

```
nx = 5
ny = 5
a = findgen(nx, ny)    ; original image
b = rebin(a, 100 * nx, 100 * ny, /sample)    ; resampled image
loadct, 13
imdisp, b
pson, file='test.ps'
imdisp, b
psoff
```

The resampled image in test.ps will show the blockiness present in the original image, since the resampled image is created via pixel replication. Note that I've used imdisp.pro, pson.pro and psoff.pro from

http://gumley.com/PIP/Sample_Programs/PIP_programs.zip

Cheers,

Liam.
Practical IDL Programming
http://www.gumley.com/