
Subject: Re: idl, postscript, color
Posted by [Liam Gumley](#) on Wed, 23 Oct 1996 07:00:00 GMT
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Klaus Bramstedt wrote:

> I have to plot TrueColor pictures in IDL. These pictures contain colors
> defined as RGB-values. On a TrueColor X-Display everything works fine
> with about 16 million colors, i get very nice pictures. I want to plot
> this pictures on a PostScript color printer. But the 'ps' device in IDL
> only allows 256 colors, which is definitely too less for my pictures.
> Has someone any idea, how to put my pictures on paper?

See the IDL Reference Manual section on 'The Postscript Device',
in particular the section on 'True-Color Images', which says in part

(begin quote)

Use the TRUE keyword to the TV and TVSCL procedures to indicate that the
image is a true-color image and to specify the dimension over which
color is interleaved. A value of 1 specifies pixel interleaving, 2 is
row interleaving, and 3 is image interleaving. The following example
writes a 24-bit image, interleaved over the 3rd dimension, to a
PostScript file:

```
SET_PLOT, 'PS'  
;Set the PostScript device to *8* bits per color, not 24:  
DEVICE, FILE='24bit.ps', /COLOR, BITS=8  
TV, [[[r]], [[g]], [[b]]], TRUE=3  
DEVICE, /CLOSE  
(end quote)
```

Subject: Re: idl, postscript, color
Posted by [agrap](#) on Wed, 23 Oct 1996 07:00:00 GMT
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Klaus Bramstedt <bram@gome5.physik.uni-bremen.de> writes:

> I have to plot TrueColor pictures in IDL. These pictures contain colors
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(posted and emailed)

I'm not sure, but I do the following to get a color postscript file
from the image stored in the Zbuffer. What happens if you change the

bits from 8 to something larger? It might be worth a try. But I would hope that 2^{24} colors would be enough (for 8 bit colors, each color coordinate can range from 0 to 255, so the total palette contains 16,777,216 colors. See page 16-7 in the IDL User's Guide.).

```
SET_PLOT, 'Z', /copy
;copy the device's internal color table
a = TVRD()
SET_PLOT, 'PS', /copy
fn = '/home0/amara/temp.ps'
DEVICE, filename=fn, /color ,/landscape, bits=8
TV, a
DEVICE, /close
```

Amara

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