
Subject: Re: Private vs. shared colormaps in IDL
Posted by [bennetsc](#) on Fri, 30 Jan 1998 08:00:00 GMT
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In article <MPG.f3ac8502ddbd6f989705@news.frii.com>,
David Fanning <davidf@dfanning.com> wrote:

> Scott Bennett (bennetsc@ucs.orst.edu) writes:

>

>> I'm an IDL novice and need a bit of help. I'm running IDL 5
>> on a Sun under Solaris 2.5.x and using an HP 735 running HP-UX 9
>> as the DISPLAY. My problem is that I need idl to use shared color
>> maps. Right now if I do a plot, for example, idl loads a private
>> color table, which conceals nearly everything on the screen except
>> the plot itself, even the window frame. That means I'm fishing in
>> the dark just to find the button on the frame to change the window
>> to an icon in order to reactivate the shared map used by all other
>> applications and the window manager. I have also tried it using
>> the Sun as the DISPLAY with the same results.

>

> By default, IDL always grabs all of the colors that remain
> in the shared color map for itself. It will only be given
> a private color map if there are no colors remaining in the
> shared color map. (Or, more precisely, IDL will be assigned
> a private color map if it asks for more colors than can be
> provided in the shared color map.)

Okay, thanks for that tidbit, which does not appear to be
documented in the IDL manuals.

>

> Clearly, the technical problem you are experiencing is known
> in the trade as "ain't no colors left". :-)

>

> The question is, why?

>

> I'll hazard a guess or two. Both the Solaris and HP operating
> systems use the Common Desktop Environment (CDE), and boy,
> does that splash screen look great! Unfortunately, it uses
> about 100 colors to get that great effect. Assign another
> 10 colors or so to the window manager, and that leaves the
> rest of the applications looking to share about 146 colors.
> Almost too few for real scientific programming.

>

To save time and space here, I'm going to skip quite a
bit of David's speculation because his description doesn't
match what is happening.

First off, when I started using IDL 5 several months ago
on the configuration I described, I did have a problem with
IDL and the color allocation. I use idlde a lot, though the

current problem does not depend upon idlde; i.e. the current problem occurs with idl, regardless of whether it is started by me or by idlde. Anyway, the problem I had long ago was taken care of nicely by aliasing idlde to "idlde -colors -150" in my .cshrc stuff. That worked just fine until a week or two ago and I haven't discovered yet what has changed. During those months I sometimes simultaneously ran Mathematica on yet another system with its DISPLAY set to the HP and Netscape locally on the HP with the DISPLAY set to the HP. Worked fine.

Now it doesn't work fine. Since receiving David's reply, I've tried changing HP VUE's color stuff, which I did not have to do in the past. I've tried "default," which is what I've had it set to all along, "high color," "medium color," "low color," and "black and white." None of them stopped IDL from replacing the current color map, leaving me hunting around on a black screen trying to find the button to iconify the offending window to get the system's color map back, so I could see what I was doing again. I did these little experiments with only VUE and some xterm's running to compete with IDL for colors. (At least one xterm was required in order to log into the Sun to run idl or idlde. xterm only needs two colors and all the xterm's use the same two colors.)

> You can find a number of other articles about color and IDL
> on my web page. I'm currently working on an article about how

Thanks. I'll take a look soon.

> to get IDL and an application like NetScape to share the
> *same* set of colors in the shared color map.
>
> There are other things that could be going on here, too.
> This is not the only scenario. Only the most likely,
> in my experience. Another possibility is that someone put
> the selection of IDL colors in the .Xdefaults file and you simply
> don't have that number of colors in your shared map when you start IDL.

Well, there wasn't any .Xdefaults file until I started mucking around trying to fix the problem, so that isn't it either. And what I put into it was:

```
idl.colors: -150  
Idl*colors: -150
```

According to the manual, those are overridden by -colors n on the command line, which I also tried setting to various negative and positive numbers. Nothing made the slightest bit of difference that I could see.

> If you want to call me while you are in front of the machine we could
> probably sort it out in a couple of minutes.

>

I may do that. Thanks for the offer and thanks much for the
help so far.

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* "The jury has a right to judge both the law as well as the fact in *

* controversy."--John Jay, First Chief Justice, U.S. Supreme Court *

* in Georgia vs. Brailsford, 1794 *
