Subject: tvrd failure on v5 on win95 Posted by Mirko Vukovic on Tue, 03 Jun 1997 07:00:00 GMT View Forum Message <> Reply to Message

ok I just wasted about 4 hours on the following problem on idlv5, windows95 and pentium.

Basically, tvrd is not returning the image. Here is a piece of code:

```
surfdata = shift(dist(20),10,10)
surfdata = bytscl(exp(-(surfdata/5)^2))
```

```
loadct,25 ;,ncolo=100
  shade_surf,surfdata,shades=surfdata
  clr_surf = tvrd()
  loadct,0
end
```

(some of you may recognize it as part of Struan's surface plotting tutorial).

depending on the color table loaded with LOADCT (I tried 6 and 25), clr_surf contains a severely defficient image. Do a tv,clr_surf, and you will get either only the axes drawn (for color table 25) or a surface image but with colors that do not correspond to the original (for color table 6)

If you look at the histogram of the image you will see that only few of the 255 available values are used (two for color table 25 and several for table 6).

I tried playing with device, decomposed=x, retaining done by IDL, but to no avail. I also tried not using the top 20 colors (as this is used by windows), but this did not help much.

Any clues?

Tia,

--

Mirko Vukovic, Ph.D 3075 Hansen Way M/S K-109 Varian Associates Palo Alto, CA, 94304 415/424-4969 mirko.vukovic@varian.grc.com

```
Mirko Vukovic wrote:
> ok I just wasted about 4 hours on the following problem on idlv5,
  windows95 and pentium.
>
  Basically, tyrd is not returning the image. Here is a piece of code:
>
 surfdata = shift(dist(20), 10, 10)
    surfdata = bytscl(exp(-(surfdata/5)^2))
>
>
>
>
    loadct,25;,ncolo=100
>
    shade_surf,surfdata,shades=surfdata
>
    clr surf = tvrd()
>
>
    loadct,0
>
> end
>
  (some of you may recognize it as part of Struan's surface plotting
> tutorial).
> _depending_ on the color table loaded with LOADCT (I tried 6 and 25),
> clr_surf contains a severely defficient image. Do a tv,clr_surf, and you
> will get either only the axes drawn (for color table 25) or a surface
> image but with colors that do not correspond to the original (for color
> table 6)
>
> If you look at the histogram of the image you will see that only few of
> the 255 available values are used (two for color table 25 and several
> for table 6).
>
```

Mirko -

>

I had many problems with TVRD() with IDL 4.0.1 and earlier, under Solaris 2.X.

I wrote a routine I called SAFE_TVRD(), that uses the DEVICE, COPY=[] command

I tried playing with device, decomposed=x, retaining done by IDL, but to
 no avail. I also tried not using the top 20 colors (as this is used by

to read from the window. This routine solved the problem we were having. I have

> windows), but this did not help much.

mailed it to you; hopefully it may help with your problem. It is a bit slower.

because it has to create an extra pixmap window first, but if it works...

It was confirmed by RSI tech support that there were problems with TVRD() under

Solaris 2.X/OpenWindows, even when backing store was provided by IDL (yes, I tried

that first). There were problems with TVRD() if the window was obscured or iconified, or if the graphics window was a scrollable draw widget.

I haven't verified yet whether any of these problems persist with IDL 5.0. I DO

know that SAFE_TVRD() is still safe! ;-)

Dave

--

David S. Foster Univ. of California, San Diego Programmer/Analyst Brain Image Analysis Laboratory foster@bial1.ucsd.edu Department of Psychiatry (619) 622-5892 8950 Via La Jolla Drive, Suite 2200 La Jolla, CA 92037

"I have this theory that if we're told we're bad, then that's the only idea we'll ever have. But maybe if we are surrounded in beauty, someday we will become what we see." - Jewel Kilcher

Subject: Re: tvrd failure on v5 on win95
Posted by Mirko Vukovic on Wed, 04 Jun 1997 07:00:00 GMT
View Forum Message <> Reply to Message

```
Struan Gray wrote:
```

- >> image. Do a tv,clr_surf, and you will get either only the
- >> axes drawn (for color table 25) or a surface image but with
- >> colors that do not correspond to the original (for color
- >> table 6)

>

- > It could be a bug in v5.0 but I would guess you are doing this on
- > a 16-bit or 24-bit display where TVRD doesn't return the colour index
- > used to plot the image, but instead gives you whichever of the red,
- > green and blue values for each pixel is largest. With some colour
- > tables this can give very different results from what you get on an
- > 8-bit display.

I'll look into that, but I am doubtfull, since I am already specifying device,/decomposed=0 (to enforce the 8bit mode).

thanks

--

Mirko Vukovic, Ph.D 3075 Hansen Way M/S K-109 Varian Associates Palo Alto, CA, 94304 415/424-4969 mirko.vukovic@varian.grc.com

Subject: Re: tvrd failure on v5 on win95 Posted by William Thompson on Thu, 05 Jun 1997 07:00:00 GMT View Forum Message <> Reply to Message

David Foster wrote:

• • •

- > I had many problems with TVRD() with IDL 4.0.1 and earlier, under
- > Solaris 2.X.
- > I wrote a routine I called SAFE_TVRD(), that uses the DEVICE, COPY=[]
- > command
- > to read from the window. This routine solved the problem we were having.
- > I have
- > mailed it to you; hopefully it may help with your problem. It is a bit
- > slower,
- > because it has to create an extra pixmap window first, but if it
- > works...

Could you also post that routine?

Thanks.

Bill Thompson