
Subject: Re: TVRD'ing under windows

Posted by [davidf](#) on Tue, 11 May 1999 07:00:00 GMT

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David Foster (foster@bial1.ucsd.edu) writes:

- > I ran into this problem years ago under X-Windows (Sun OS and Solaris),
- > and at that time it was a bug, in that even with backing store
- > provided by IDL TVRD() could produce unexpected results if the window
- > was obscured or iconified, especially if the draw widget was
- > scrollable.
- >
- > I got around the problem by using DEVICE, COPY=[] to copy the window
- > contents to a pixmap, and then TVRD() from that pixmap. Works quite
- > well, at least under SunOS/Solaris.
- > I've attached my SAFE_TV RD.PRO and SAFE_TV RD.DOC files.

Alas, even Safe_TV RD won't help with this problem, since it has to do with how windows on 24-bit devices work. You will have the same problem reading off a pixmap as you will off the display window. What you *might* be able to do, depending upon how "device-independently" you write your graphics display code, is display your graphics in the Z-graphics buffer. You can take a TVRD() from this window and end up with a 2D array of index values, which is what you might be expecting.

You can find more information about this problem here:

http://www.dfanning.com/tips/strange_tvrd.html

By the way, I'm told that there are actually graphics display cards (e.g. a DEC Alpha with a video card 40T) that store their data as BGR instead of RGB. On those cards, you will have to switch things around to get what you expect. Don't you love computers? Sigh...

On a happier note, I finally got some folks at RSI listening to my complaints about having to set Device, Decomposed=1 (or load color table 0) to get a 24-bit image to display with the correct colors on a PC in 24-bit color mode. No promises, but at least they are listening. Stay tuned. :-)

In the meantime, you can use TVImage, which puts you in the proper mode automatically (and switches you back if you are running IDL 5.2, where the keywords are available to do it).

<http://www.dfanning.com/programs/tvimage.pro>

Cheers,

David

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