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Subject: Re: How to directly write figure to png without open x-window in IDL5.4?  
Posted by [ninghai](#) on Thu, 14 Nov 2002 14:47:47 GMT

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Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote in message  
news:<on7kfqlqx2.fsf@cow.physics.wisc.edu>...  
> David Fanning <david@dfanning.com> writes:  
>  
>> Ninghai Sun (ninghai@whidc.com) writes:  
>>  
>>> Now, I first write to PS and then convert to png in cronjob. No  
>>> problem in linux. But if logout of Linux when the idl code is running,  
>>> always get error that no x-window is opened. Any idea how to figure it  
>>> out?  
>>  
>> Use the Z-buffer for a window.  
>>  
>> thisDevice = !D.Name  
>> Set\_Plot, 'Z'  
>> LOADCT, 5 ; of whatever you do to load colors  
>> TVLCT, r, g, b, /GET  
>> Device, Z\_Buffer=0, Set\_Resolution=[400, 300] ; or whatever  
>> TV, image ; Or, whatever graphics you display  
>> snapshot = TVRD()  
>> Set\_Plot, thisDevice  
>> Write\_PNG, 'myfile.png, snapshot, r, g, b

Seems this way still doesn't work in my Linux machine. When the  
cronjob was running after I log out of Linux, only error msg is  
returned, which is "Xlib: connection to "0:0" refused by server.  
Xlib:Client is not authorized to connect to server." Is this because  
IDL problem or my Linux X-win proble? I am confused.

> Speaking of being stuck in IDL 5.4, I have found that TVRD() and  
> WRITE\_PNG have two slightly different behaviors, depending on whether  
> IDL 5.4 (or earlier), or 5.5 are used. In the earlier versions, the  
> graphic is vertically flipped. In my little Z buffer PNG screen  
> capture code, I have something like this to test for IDL version:  
>  
>  
> img = tvrd()  
> if float(!version.release) LT 5.5 then \$  
> img = reverse(img, 2)  
>  
> write\_png, filename, img, ctab, ctab, ctab  
>  
> Craig

Seems it's not necessary to do so on my IDL 5.4 in linux.

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