
Subject: Re: How to directly write figure to png without open x-window in IDL5.4?

Posted by [David Fanning](#) on Wed, 13 Nov 2002 21:38:36 GMT

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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
```

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: How to directly write figure to png without open x-window in IDL5.4?

Posted by [Craig Markwardt](#) on Thu, 14 Nov 2002 04:24:25 GMT

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David Fanning <david@dfanning.com> writes:

> Ninghai Sun (ninghai@whidc.com) writes:

>

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> 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
```

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

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

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:<on7kfglqx2.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
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```
>
>
> 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.
