
Subject: Re: IDL without X11?

Posted by [Karl\[1\]](#) on Sun, 07 Feb 2010 00:57:10 GMT

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On Feb 5, 10:40 pm, TonyL <anthony.legg...@bigpond.com> wrote:

> On Feb 6, 10:54 am, Karl <karl.w.schu...@gmail.com> wrote:

>

>

>

>> On Feb 5, 3:22 pm, nata <bernat.puigdomen...@gmail.com> wrote:

>

>>> Hi Karl,

>

>>> Thank you for your reply. Finally I got something.

>>> Now, I'm able to run the script but only for the root user (I don't

>>> know why). For the other users I got the following message:

>>> Warning: Cannot allocate colormap entry for default background.

>

>>> This is my final script:

>

>>> export DISPLAY=:2

>>> /usr/X11R6/bin/Xvfb :2 -screen 0 1152x900x16 &

>>> /usr/local/itt/idl70/bin/idl -rt=my_script.sav -args A B C

>

>>> nata

>

>>> PS I realized that I just have to define the screen one time (/usr/

>>> X11R6/bin/Xvfb :2 -screen 0 1152x900x16 &).

>>> Then, if the script will be executed each 10 minutes using the 1st and

>>> 3th lines it's enough

>

>> What got rid of the

>

>> X11 connection rejected because of wrong authentication.

>

>> message?

>

>> I would put a sleep for a few seconds after you kick off Xvfb to make

>> sure it gets started before IDL tries to talk to it.

>

>> Also, I'd put a killall Xvfb after IDL runs. There's no good reason

>> to let the server run. If you have to run it as root, you might want

>> to find some other way to kill it, so you don't kill someone else's

>> Xvfb.

>

>> You don't need a screen that large - you could go really tiny in w and

>> h, and 8 bits for d. This is just a dummy server and you'll save some

>> memory.

>
>> The colormap issue is probably caused by the root user and the "other"
>> users having a different set of X default or config files, or
>> something along those lines. The "other" users may have config files
>> in their home dirs that are trying to init a desktop or who knows
>> what. It is just a warning - the IDL client still runs without being
>> root, right? I wouldn't run it as root if I could avoid it.
>
>> It could be that one of these config files is asking for a 32-bit
>> color spec and your server is 16 bpp. You might try starting Xfwb
>> with 32 bpp. Or move all those X-related config files out of the way
>> in your home dir and see if that helps. Check for X-related env vars
>> as well.
>
> I use a cron job running on a Linux system that uses the Z-buffer for
> all graphics. That way you avoid any need to define a graphics device
> that has some kind of 'physical' existence. Z buffer uses system
> memory. Of course you will need to change a few commands with the Z
> buffer compared to a window device. I have use Xvfb before but i found
> it was a hassle if the PC was ever restarted and the Xvfb wasn't auto
> started.
>
> Tony

I think that one constraint on the original problem was not being
unable to modify the IDL code. I got the impression from the OP that
the app wasn't doing any graphics that were needed, but was doing a
call to WIDGET_BASE anyway. The best solution would be to make the
app Really non-graphical with some sort of startup option. But that
is apparently not a possibility here.
