
Subject: Re: having IDL output to another X11 window
Posted by [David Fanning](#) on Tue, 10 Sep 2002 19:20:59 GMT
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John R. Iverson (jrivers@sandia.gov) writes:

- > The documentation seems sure that I can cause IDL to output graphics to
- > another X-Window (external development guide, Ch 19, p348):
- >
- > "The IDL X Windows graphics driver can draw in windows it did not create
- > as long as the window is compatible with the IDL display connection".
- >
- > However, I can't find any reference as to how to do this. Specifically,
- > I am developing a Motif application in which I would like to embed some
- > IDL graphics (a map) in an existing display.

Well, years ago you could do this with undocumented keywords to the X windows driver. I'm not sure it can still be done. The keywords were SET_X_ID and SET_X_PID for the X window ID and X pixmap window id, respectively. Use them on a WINDOW command to set up the window to use the X ID of an existing X drawable. If present, IDL does not create the required drawable, but uses the one pointed to by the ID.

Best of luck. I'm thinking you will need it. :-)

Cheers,

David

--

David W. Fanning, Ph.D.
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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: having IDL output to another X11 window
Posted by [R.Bauer](#) on Wed, 11 Sep 2002 06:35:34 GMT
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John R. Iverson wrote:

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> I am developing a Motif application in which I would like to embed some
> IDL graphics (a map) in an existing display.
>
> Thanks for your help, in advance!
>
> -Rob Iverson
> Sandia National Labs
> jriverson@sandia.gov

if you have a look into idls online help you can read.

DISPLAY

IDL uses the DISPLAY environment variable to choose which X display is used to display graphics.

Reimar

--

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de

a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html
=====

Subject: Re: having IDL output to another X11 window
Posted by [Bringfried Stecklum](#) on Wed, 11 Sep 2002 08:16:33 GMT
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Dear David,

interesting suggestion. I checked it out with the following result

IDL Version 5.4.1 (linux x86). (c) 2000, Research Systems, Inc.
IDL> window,set_x_id='194.94.209.12:0.0'
Xlib: unexpected async reply (sequence 0xaa)!

% X windows protocol error: BadDrawable (invalid Pixmap or Window parameter).

It seems the keyword is still there but the connection to the X server could not be established.

regards,

B.St.

--

Bringfried Stecklum
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Sternwarte 5, D - 07778 Tautenburg, Germany
Phone: +49-36427-863-54, FAX: +49-36427-863-29

Subject: Re: having IDL output to another X11 window
Posted by [David Fanning](#) on Wed, 11 Sep 2002 13:30:27 GMT
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Bringfried Stecklum (stecklum@tls-tautenburg.de) writes:

> Interesting suggestion. I checked it out with the following result
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> IDL> window,set_x_id='194.94.209.12:0.0'
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>
> It seems the keyword is still there but the connection to the X server
> could not be established.

The ID must be the ID of a X window "visual". I don't recall now what this is exactly, but I'm pretty sure it is not the display number sequence you used. This is a number that the operating system assigns to a window when it is created.

You can probably use the GET_X_ID keyword when you create a window in IDL to see what one of these would look like. You will have to do some Motif programming, I guess, to get to it.

Cheers,

David

--

David W. Fanning, Ph.D.
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Subject: Re: having IDL output to another X11 window
Posted by [Jacques Basson](#) on Wed, 11 Sep 2002 13:39:34 GMT
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David Fanning wrote:

```
> Bringfried Stecklum (stecklum@tls-tautenburg.de) writes:
>
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> you create a window in IDL to see what one of
> these would look like. You will have to do some
> Motif programming, I guess, to get to it.
>
> Cheers,
>
> David
>
```

I have used this recently, and David's description is perfectly correct,
so here is a working example.

Run the following wish script to get a window and ID (alternatively

check out "man xwininfo" for finding the id of some other window if you don't have wish installed)

```
-----  
#!/bin/sh  
# the next line restarts using wish \  
exec wish "$0" "$@"  
  
frame .test -width 500 -height 500  
listbox .windowid -height 1  
button .exit -text "Exit" -command exit  
  
set frameid [wininfo id .test]  
.windowid insert end $frameid  
  
pack .exit .test .windowid  
-----
```

Then in IDL

IDL Version 5.5a (linux x86). (c) 2001, Research Systems, Inc.

```
IDL> window, set_x_id='0x380000e'X  
IDL> plot, findgen(100)
```

Of course you must insert the appropriate ID (in hex above). Works with no problems for me. Don't know about Motif though...

Jacques

Subject: Re: having IDL output to another X11 window
Posted by [Ken Mankoff](#) on Wed, 11 Sep 2002 17:23:14 GMT
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On Wed, 11 Sep 2002, David Fanning wrote:

```
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- > it is created.
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- > You can probably use the GET_X_ID keyword when
- > you create a window in IDL to see what one of
- > these would look like. You will have to do some
- > Motif programming, I guess, to get to it.

Or run 'xwininfo' at the command line.
and 'man xwininfo' mentions 'xprop'

-k.
