Subject: Re: having IDL output to another X11 window Posted by David Fanning on Tue, 10 Sep 2002 19:20:59 GMT

View Forum Message <> Reply to Message

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.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

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

View Forum Message <> Reply to Message

John R. Iverson wrote:

- > 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.

>

> Thanks for your help, in advance!

>

- > -Rob Iverson
- > Sandia National Labs
- > jrivers@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-iuelich.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 View Forum Message <> Reply to Message

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
Th"uringer Landessternwarte Tautenburg
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 View Forum Message <> Reply to Message

Bringfried Stecklum (stecklum@tls-tautenburg.de) writes:

> 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.

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.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

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 Jacques Basson on Wed, 11 Sep 2002 13:39:34 GMT View Forum Message <> Reply to Message

```
David Fanning wrote:
```

- > Bringfried Stecklum (stecklum@tls-tautenburg.de) writes:
- > >
- >> 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.

>

- > 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

>

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 [winfo 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 yout 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 View Forum Message <> Reply to Message

On Wed, 11 Sep 2002, David Fanning wrote:

- > Bringfried Stecklum (stecklum@tls-tautenburg.de) writes:
- >
- >> 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.

>

- > 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.

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

-k.