
Subject: Cursor problems, MAC and PC
Posted by [Ted Cary](#) on Thu, 09 May 2002 15:03:06 GMT
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I have been porting some of my lab's IDL 5.4 Macintosh programs to a Windows 2000 PC running 5.5. Programs that change the cursor image have been having problems, both in direct graphics and object graphics.

1.) On the Mac, just setting the cursor without setting a mask appears to cause the cursor image to be XOR-ed with the window contents, so it is always visible against the background. On the PC, unmasked custom cursors disappear against black backgrounds, as described in the online help, but the standard cursors set with the `CURSOR_STANDARD` keyword to `DEVICE` do exhibit the XOR-like behavior. Can the XOR behavior be achieved with custom cursors on a Windows machine?

2.) In Windows, calls to `DEVICE` with the `CURSOR_IMAGE` keyword cause a new direct graphics window to pop up if one is not already open. This did not happen in the Mac programs. Is there a way to turn this off?

3.) In Macintosh object graphics windows, setting the cursor with `IDLgrWindow::SetCurrentCursor` causes some problems. While dragging the mouse across the viewport, the cursor constantly cycles between the object window cursor and the direct graphics cursor. This was easily solved by setting the direct graphics cursor to the same thing as the object window cursor. On Windows this cursor cycling does not occur; instead new direct graphics windows keep popping up whenever the cursor is changed (see #2).

I can fix these problems in Windows by drawing and setting masks for each cursor and taking out all the extra calls to `DEVICE`, but I was hoping for a less time consuming, cross-platform solution. The Macintosh object graphics cursor cycling is particularly troublesome, although the workaround is simple enough. Is this a known bug or a common programming mistake? Has anyone experienced or solved any of these problems?

Thanks for any help,

Ted Cary

Subject: Re: CURSOR problems
Posted by [R.G. Stockwell](#) on Mon, 22 Aug 2005 16:30:14 GMT
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"Kenneth Bowman" <k-bowman@null.tamu.edu> wrote in message
news:k-bowman-4F8C65.10384122082005@news.tamu.edu...
> Is anyone else having problems with CURSOR? I have never seen this
> behavior

> before, and I have no idea if it is an IDL or an OS issue. I am running
> IDL 6.1
> on Mac OS X 10.4.2.
>
> If I run this program:
>
> PRO TEST_CURSOR
> PLOT, FINDGEN(5)
> CURSOR, x, y, /DATA
> PRINT, x, y
> END
...
> Thanks, Ken Bowman

Works fine here

IDL Version 6.1.1, Microsoft Windows (Win32 x86 m32). (c) 2004, Research
Systems, Inc.

Cheers,

bob

Subject: Re: CURSOR problems

Posted by [David Fanning](#) on Mon, 22 Aug 2005 16:58:06 GMT

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Kenneth Bowman writes:

> Is anyone else having problems with CURSOR? I have never seen this behavior
> before, and I have no idea if it is an IDL or an OS issue. I am running IDL 6.1
> on Mac OS X 10.4.2.
>
> If I run this program:
>
> PRO TEST_CURSOR
> PLOT, FINDGEN(5)
> CURSOR, x, y, /DATA
> PRINT, x, y
> END
>
> it opens an X window and draws the graph. I click on the graphics window to
> change keyboard focus. Clicking in the window has no effect. I click back to
> my terminal window and interrupt execution with control-C. Moving the mouse
> back to the graphic window produces an event just as the mouse enters the window
> (see below).

```
>
> IDL> test_cursor
> ^C% Interrupted at: TEST_CURSOR      3
> /Network/Servers/csrp.tamu.edu/Volumes/csrp0/Home/bowman/id
> l/test/test_cursor.pro
> IDL> .c
>    -0.34877722    1.8760835
>
> This behavior renders CURSOR completely non-functional.
```

What happens if you set the DOWN keyword on the CURSOR command? Does that change things at all?

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: CURSOR problems
Posted by [Timm Weitkamp](#) on Mon, 22 Aug 2005 17:00:45 GMT
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R.G. Stockwell wrote:

```
> "Kenneth Bowman" <k-bowman@null.tamu.edu> wrote in message
> news:k-bowman-4F8C65.10384122082005@news.tamu.edu...
>> Is anyone else having problems with CURSOR? I have never seen this
>> behavior
>> before, and I have no idea if it is an IDL or an OS issue. I am running
>> IDL 6.1
>> on Mac OS X 10.4.2.
>>
>> If I run this program:
>>
>> PRO TEST_CURSOR
>> PLOT, FINDGEN(5)
>> CURSOR, x, y, /DATA
>> PRINT, x, y
>> END
> ...
>> Thanks, Ken Bowman
>
> Works fine here
> IDL Version 6.1.1, Microsoft Windows (Win32 x86 m32). (c) 2004, Research
> Systems, Inc.
```

Works all right here as well.

{ x86 linux unix linux 6.1 Jul 14 2004 32 64}

Timm Weitkamp
ESRF, Grenoble, France

Subject: Re: CURSOR problems
Posted by [K. Bowman](#) on Mon, 22 Aug 2005 19:50:42 GMT
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In article <MPG.1d73b1e9fce7adbb989a51@news.frii.com>,
David Fanning <davidf@dfanning.com> wrote:

> What happens if you set the DOWN keyword on the CURSOR
> command? Does that change things at all?
>
> David

I belatedly thought to try it with one of our Linux boxes.

This generates an error message as soon as TEST_CURSOR is run

```
IDL> test_cursor
% X windows protocol error: BadWindow (invalid Window parameter).
% Interrupted at: TEST_CURSOR      3 /h/bowman/idl/test/test_cursor.pro
```

It looks like it is an issue with Apple's X11 in 10.4. I'll submit a report to RSI.

Ken

Subject: Re: CURSOR problems
Posted by [Ken Mankoff](#) on Mon, 22 Aug 2005 20:47:16 GMT
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Without running your code, I think I might have already dealt with this here:

http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/a2c4c8a401d89bba/05b5e8ecdcca33af?q=mankoff+x11&num=1#05b5e8ecdcca33af

Solution:

```
% defaults write com.apple.x11 wm_click_through -bool true
```

```
-k.
```

On Mon, 22 Aug 2005, Kenneth Bowman wrote:

```
>
> Is anyone else having problems with CURSOR? I have never seen
> this behavior before, and I have no idea if it is an IDL or an OS
> issue. I am running IDL 6.1 on Mac OS X 10.4.2.
>
> If I run this program:
>
> PRO TEST_CURSOR
> PLOT, FINDGEN(5)
> CURSOR, x, y, /DATA
> PRINT, x, y
> END
>
> it opens an X window and draws the graph. I click on the graphics
> window to change keyboard focus. Clicking in the window has no
> effect. I click back to my terminal window and interrupt
> execution with control-C. Moving the mouse back to the graphic
> window produces an event just as the mouse enters the window (see
> below).
>
> IDL> test_cursor
> ^C% Interrupted at: TEST_CURSOR      3
> /Network/Servers/csrp.tamu.edu/Volumes/csrp0/Home/bowman/id
> l/test/test_cursor.pro
> IDL> .c
>   -0.34877722    1.8760835
>
> This behavior renders CURSOR completely non-functional.
>
> Thanks, Ken Bowman
>
```

Subject: Re: CURSOR problems

Posted by [David Fanning](#) on Mon, 22 Aug 2005 21:03:02 GMT

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Ken Mankoff writes:

```
> Without running your code, I think I might have already dealt with
> this here:
>
```

> http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/a2c4c8a401d89bba/05b5e8ecdcca33af?q=mankoff+x11&rnum=1#05b5e8ecdcca33af

Here is a wonderful little site everyone ought to have bookmarked in their browser:

<http://tinyurl.com/>

It take about 5 seconds to turn this:

http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/a2c4c8a401d89bba/05b5e8ecdcca33af?q=mankoff+x11&rnum=1#05b5e8ecdcca33af

Into this:

<http://tinyurl.com/dx8rq>

Isn't that better. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: CURSOR problems
Posted by [K. Bowman](#) on Mon, 22 Aug 2005 21:55:41 GMT
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In article <Pine.OSX.4.61.0508221646360.5328@gouda.local>,
Ken Mankoff <mankoff@gmail.com> wrote:

> Without running your code, I think I might have already dealt with
> this here:
>
> http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/a2c4c8a401d89bba/05b5e8ecdcca33af?q=mankoff+x11&rnum=1#05b5e8ecdcca33af
>
> Solution:
>
> % defaults write com.apple.x11 wm_click_through -bool true

Yup. Thanks for the help, Ken.

I did search through the group before posting, but didn't have the right keywords. :-(

Ken B.

Subject: Re: CURSOR problems
Posted by [Ken Mankoff](#) on Tue, 23 Aug 2005 00:00:43 GMT
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On Mon, 22 Aug 2005, David Fanning wrote:

> Ken Mankoff writes:
>
>> Without running your code, I think I might have already dealt with
>> this here:
>>
>> http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/a2c4c8a401d89bba/05b5e8ecdcca33af?q=mankoff+x11&rnum=1#05b5e8ecdcca33af
>
> It take about 5 seconds to turn this:
>
> http://groups-beta.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/a2c4c8a401d89bba/05b5e8ecdcca33af?q=mankoff+x11&rnum=1#05b5e8ecdcca33af
>
> Into this:
>
> <http://tinyurl.com/dx8rq>
>
> Isn't that better. :-)

If you like tinyurl you might also like this:

<http://tinyurl.com/duqnc>

-k.

Subject: Re: CURSOR problems
Posted by [Richard French](#) on Tue, 23 Aug 2005 00:04:07 GMT
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On the subject of cursor focus in X11 on Mac OSX, I have a problem that I

hope someone can help with (not specifically IDL - related):

I use Apple X11 to create xterms from which I run IDL. I am running IDL 6.2 on Mac OSX 10.3 and 10.4. The problem is this:

When I try to cut and paste from one xterm to another within X11 (not between applications) I can paste highlighted text by moving to the destination window and middle-clicking - this is typical X behavior and works fine. I don't remember doing anything special to make this work.

Here is the problem - for EVERY OTHER account on these machines, users are unable to get cut and paste within X11 to work. I've confirmed that we are using the same settings within X11:

> Defaults read com.apple.X11

```
"done_xinit_check" = 1;  
"enable_fake_buttons" = 0;  
"enable_key_equivalents" = 0;  
"enable_system_beep" = 1;  
"wm_ffm" = true;
```

I've also checked Mouse settings under System Preferences but to no avail

Clearly, there is something different about my setup and everyone else's, but I am stumped about what it might be. I've Googled for this but no one has commented on the WITHIN X11 cut and paste problem that I can see. (A second issue is getting cut and paste to work between X11 and other applications...)

Anyone have any ideas? I have users in my dept who don't want to use the Mac because of this cut and paste failure. There must be a way to make it work!

Thanks!

Dick French

Subject: Re: CURSOR problems
Posted by [Ken Mankoff](#) on Tue, 23 Aug 2005 01:01:03 GMT
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On Mon, 22 Aug 2005, Kenneth Bowman wrote:

```
>  
> I did search through the group before posting, but didn't have the  
> right keywords. :-(
```

Funny, because you took part in that thread in both of its

life-spans. Ahh. Information overload. Where to store it all?

-k.

Subject: Re: CURSOR problems

Posted by [David Fanning](#) on Tue, 23 Aug 2005 01:24:14 GMT

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Richard G. French writes:

> There must be a way to make it work!

Clean living, Dick, is the only way, I'm pretty sure.
I congratulate you on your success. :-)

Cheers,

David

P.S. We are going through the annual computer shuffle here. Have you ever tried to get a teenager's computer working properly for your wife? Any you think YOU have troubles! :-)

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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Subject: Re: CURSOR problems

Posted by [David Fanning](#) on Tue, 23 Aug 2005 01:25:55 GMT

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Ken Mankoff writes:

> If you like tinyurl you might also like this:

>

> <http://tinyurl.com/duqnc>

Oh, yes, absolutely! I've got to have it! :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: CURSOR problems

Posted by [Patrick Broos](#) on Tue, 23 Aug 2005 12:39:05 GMT

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I don't have any ideas on your xterm configuration, but as a Solaris user just moving to OS-X I do have a suggestion about xterms: leave them behind! As long as \$DISPLAY is set correctly you can start X11 programs from a shell running in any terminal application. Terminal.app (from Apple) is better than xterm, and iTerm is even better than Terminal.app. You'll be able to use much better fonts than I could ever get in xterm (on OS-X), multiple ("tabbed") shells, full integration with other OS-X applications (e.g. drag a file from Finder and the file's path is printed in the shell), standard OS-X keyboard shortcuts, configurable menus (e.g. to ssh to favorite other machines), middle mouse paste, focus-follows-mouse, etc. Here's some code I found to put in .cshrc to set \$DISPLAY in all shells:

```
# Set DISPLAY so that Carbon terminals can run X
applications.
# This only works if an X server is running; it's a
good idea to start
# an X server at login via System
Preferences->Accounts->Login Items.
# Figure the correct value for DISPLAY from the lock
files /tmp/.X?-lock
if ($?DISPLAY == 0) then
  foreach x (0 1 2 3 4 5 6 7 8 9 )
    if ( -o /tmp/.X$x-lock ) then
      setenv DISPLAY :${x}.0
      break
    endif
  end
endif
```

I choose to start the X11 server automatically at login.

Patrick Broos

Subject: Re: CURSOR problems

Posted by [K. Bowman](#) on Tue, 23 Aug 2005 14:09:14 GMT

In article <Pine.OSX.4.61.0508222000470.5937@gouda.local>,
Ken Mankoff <mankoff@gmail.com> wrote:

> On Mon, 22 Aug 2005, Kenneth Bowman wrote:
>>
>> I did search through the group before posting, but didn't have the
>> right keywords. :-(
>
> Funny, because you took part in that thread in both of its
> life-spans. Ahh. Information overload. Where to store it all?
>
> -k.

I know. I remembered that there was a thread about problems with X11 on OS X,
but couldn't recall the specifics. I certainly couldn't remember that I had
actually posted anything! ;-)

Ken
