Subject: CURSOR problems
Posted by K. Bowman on Mon, 22 Aug 2005 15:38:41 GMT

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 K. Bowman on Tue, 23 Aug 2005 14:12:19 GMT

In article <1124800745.178227.298470@g47g2000cwa.googlegroups.com>,
 "Patrick Broos" <patb@astro.psu.edu> wrote:

> 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.

I second this idea with one caveat. If you use a lot of X-windows applications and need to cut and paste between them, use xterm. If you want to be able to cut and paste between OS X applications, use Terminal.app (or alternatives, I'm not familiar with iTerm).

I configure Terminal to automatically open a set of predefined terminal windows at login (use Terminal Preferences).

Cheers, Ken Bowman

Subject: Re: CURSOR problems
Posted by Ken Mankoff on Wed, 24 Aug 2005 00:46:36 GMT
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On Tue, 23 Aug 2005, Kenneth Bowman wrote:

> In article <1124800745.178227.298470@g47g2000cwa.googlegroups.com>,
> "Patrick Broos" <patb@astro.psu.edu> wrote:
>
>> 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!
>
> I second this idea with one caveat. If you use a lot of X-windows
> applications and need to cut and paste between them, use xterm.
> If you want to be able to cut and paste between OS X applications,
> use Terminal.app (or alternatives, I'm not familiar with iTerm).
>

OK, I'm thinking of making the switch. Everything works well so far. But I figure I might as well go all the way, and switch from the X emacs (mine is installed via fink) to the Aqua Emacs.app. Emacs.app runs IDLWAVE fine, but not IDLWAVE help because I can't get it running w3m. Googling for emacs.app and w3m turns up suprisingly few results. Any suggestions?

   -k.

Subject: Re: CURSOR problems
Posted by Richard French on Wed, 24 Aug 2005 01:32:17 GMT
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On 8/23/05 8:39 AM, in article 1124800745.178227.298470@g47g2000cwa.googlegroups.com, "Patrick Broos" <patb@astro.psu.edu> wrote:

> 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
>

OK, I have done this, but I'm obviously missing something. Here is what I
did:

1) add the above code to .cshrc
2) Fire up X11
3) Fire up Terminal and open a shell (using tcsh)

printenv DISPLAY gives a null. That seems to be the first problem.

From the terminal window, I can open an xterm, and interestingly it DOES
have a DISPLAY :0.0 but I can't cut and paste just using the mouse from the

first terminal window to the newly created one. If I open a second xterm, then I CAN cut and paste between those two. If I understand your post correctly, I should be able to use highlight and middle-button paste between TERMINAL windows, not xterms that I fire up from the Terminal application.

So, in my setup, the terminal app does worse than xterm in X11, where at least cut and paste work OK. I'd appreciate any suggestions on how to solve this problem.

By the way, what fonts do you use in your terminals? The list of choices is very long.

Dick French

Subject: Re: CURSOR problems
Posted by Richard French on Wed, 24 Aug 2005 01:47:18 GMT
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What would help would be if you would post the response to
Defaults read com.apple.Terminal

Here is what I have (completely irrelevant stuff omitted). Perhaps you will be able to spot my problem from this:

```
defaults read com.apple.Terminal
{
    AutoFocus = YES;
    Autowrap = YES;
    BackgroundImagePath = "";
    Backwrap = YES;
    Bell = YES;
    BlinkCursor = NO;
    BlinkText = YES;
    CleanCommands = "rlogin;telnet;ssh;slogin";
    Columns = 80;
    CursorShape = 0;
    CustomTitle = Terminal;
    DeleteKeySendsBackspace = NO;
    DisableAnsiColors = NO;
    DoubleBold = YES;
    DoubleColumnsForDoubleWide = NO;
    DoubleWideChars = YES;
    EnableDragCopy = YES;
    ExecutionString = "";
    FontAntialiasing = NO;
    FontHeightSpacing = 1;
    FontWidthSpacing = 1;
```

```
IsMiniaturized = NO;
KeyBindings = {
    "$F708" = "\033[25~";
    "$F709" = "\033[26~";
    "$F70A" = "\033[28~";
};
LastCommand = "ssh prometheus.wellesley.edu";
MacTermFunctionKeys = NO;
Meta = "-1";
NSColorPanelMode = 6;
NSColorPanelVisibleSwatchRows = 1;
NSColorPickerSlidersDefaults = 0;
NSColorPickerUserDefaults = Spectrum;
NSFixedPitchFont = VT100;
NSFixedPitchFontSize = 12;
NSFontPanelAttributes = "1, 0";
NSFontPanelLastUsedPane = 0;
NSFontPanelPreviewHeight = 0;
NSNavLastCurrentDirectory = "~/Research/HST/Cycle13/PhaseII";
NSNavLastRootDirectory = "~";
NSNavPanelExpandedSizeForOpenMode = "{518, 401}";
...
"NSWindow Frame Inspector" = "21 143 268 435 0 0 800 578 ";
"NSWindow Frame NSColorPanel" = "427 410 214 309 0 0 1280 832 ";
"NSWindow Frame NSFontPanel" = "722 431 320 221 0 0 1280 832 ";
"NSWindow Frame RunCommand" = "390 511 499 112 0 0 1280 832 ";
OptionClickToMoveCursor = NO;
PadBottom = 3;
PadLeft = 5;
PadRight = 3;
PadTop = 3;
PermanentServers = ("prometheus.wellesley.edu", "sarah.wellesley.edu",
"pandora1.wellesley.edu");
PreviousCommands = (
 );
RewrapOnResize = YES;
Rows = 24;
SaveLines = 10000;
ScrollRegionCompat = NO;
ScrollRows = 0;
Scrollback = YES;
Scrollbar = YES;
Shell = "";
ShellExitAction = 1;
StartupFile = "";
StrictEmulation = NO;
StringEncoding = 4;
TermCapString = dtterm;
```

```
    TerminalOpaqueness = 1;
    TextColors = "0.000 0.000 0.000 0.199 0.672 1.000 0.000 0.000 0.000
0.000 0.000 0.000 0.199 0.672 1.000 0.000 0.000 0.000 0.666 0.666 0.666
0.333 0.333 0.333 ";
    TitleBits = 3;
    Translate = YES;
    UseCtrlVEscapes = NO;
    VisualBell = NO;
    WinLocULY = 439;
    WinLocX = 359;
    WinLocY = 0;
    WindowCloseAction = 1;
}
```

Subject: Re: CURSOR problems
Posted by Kenneth P. Bowman on Wed, 24 Aug 2005 02:07:33 GMT
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In article <Pine.OSX.4.61.0508232044150.9617@gouda.local>,
 Ken Mankoff <mankoff@gmail.com> wrote:

> OK, I'm thinking of making the switch. Everything works well so far.
> But I figure I might as well go all the way, and switch from the X
> emacs (mine is installed via fink) to the Aqua Emacs.app. Emacs.app
> runs IDLWAVE fine, but not IDLWAVE help because I can't get it
> running w3m. Googling for emacs.app and w3m turns up suprisingly
> few results. Any suggestions?

Sorry, I'm not an emacs user. I prefer my editor to be less complicated
than my operating system. ;-) But then, I don't mind using the PDF
help files.

I'm happy with a simple editor. I like BBEdit. You can download the
free version, TextWrangler, from barebones.com.

Ken B.

Subject: Re: CURSOR problems
Posted by Patrick Broos on Wed, 24 Aug 2005 11:41:30 GMT
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hi Dick,
You're almost there. As you can see the little code snippet is testing
for the existance of a file named /tmp/.X?-lock which is written by
X11.app. This works when the shell is stared after X11. (I choose to

```

start X11 at login using the GUI in Preferences->Accounts->...

Hard coding
   setenv DISPLAY ":0.0"
probably works 99% of the time (and can be done before X11 starts), but
I saw someone else doing it this way so I followed suit.  :)

Regarding middle paste, I don't know if Terminal.app can be configured
that way or not.  I recommend iTerm at http://iterm.sourceforge.net
which definitely can.

I think I use Monaco in iTerm.  Now if I could just get a nice looking
font in the text editor I'm test-driving, jedit ...

Regards,
Patrick Broos

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## Subject: Re: CURSOR problems
Posted by btt on Wed, 24 Aug 2005 13:05:08 GMT

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Kenneth P. Bowman wrote:
> In article <Pine.OSX.4.61.0508232044150.9617@gouda.local>,
>  Ken Mankoff <mankoff@gmail.com> wrote:
>
>
>> OK, I'm thinking of making the switch. Everything works well so far.
>> But I figure I might as well go all the way, and switch from the X
>> emacs (mine is installed via fink) to the Aqua Emacs.app. Emacs.app
>> runs IDLWAVE fine, but not IDLWAVE help because I can't get it
>> running w3m. Googling for emacs.app and w3m turns up suprisingly
>> few results. Any suggestions?
>
>
> Sorry, I'm not an emacs user.  I prefer my editor to be less complicated
> than my operating system.  ;-)  But then, I don't mind using the PDF
> help files.
>
> I'm happy with a simple editor.  I like BBEdit.  You can download the
> free version, TextWrangler, from barebones.com.

I would like to chime in here with a testimonial for SubEthaEdit text
editor.

http://www.codingmonkeys.de/subethaedit/

Larry van Peursam, formerly of RSI, write the mode configuration to

enable syntax highlighting for IDL 6.1.  The editor comes with a a
command line system - so I can call it from IDL with a spawn command
wrapped in a IDL procedure...

IDL> see, 'tvimage'

and tahdah!  tvimage.pro opens up in the editor.

It's worth the try - don't forget to download the IDL syntax mode.

Cheers,
Ben

---

## Subject: Re: CURSOR problems
Posted by K. Bowman on Wed, 24 Aug 2005 13:20:54 GMT
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In article <BF314661.259D%rfrench@wellesley.edu>,
 "Richard G. French" <rfrench@wellesley.edu> wrote:

> OK, I have done this, but I'm obviously missing something. Here is what I
> did:
>
> 1) add the above code to .cshrc
> 2) Fire up X11
> 3) Fire up Terminal and open a shell (using tcsh)
>
> printenv DISPLAY gives a null. That seems to be the first problem.

I set up my DISPLAY variable like this for tcsh:

```
if ($?DISPLAY == 0) then
  if ($?REMOTEHOST) then
    setenv DISPLAY ${REMOTEHOST}:0
  else
    setenv DISPLAY :0
  endif
endif
```

Apple set up the shells in a very convoluted way, so make sure that you are
actually executing your startup scripts (e.g., with echo).  If you would like to
see my whole startup-script set up, send an e-mail to k-bowman at tamu.edu
(replace the at).

On my local machine I see this:

bowman> echo $DISPLAY

:0

On a remote machine I see

csrpc> echo $DISPLAY
localhost:10.0

which is standard for X-Windows forwarding through ssh.  I have had problems
running X-Windows apps from multiple remote hosts simultaneously, apparently due
to .Xauthority file locking conflicts.


> From the terminal window, I can open an xterm, and interestingly it DOES
> have a DISPLAY :0.0 but I can't cut and paste just using the mouse from the
> first terminal window to the newly created one. If I open a second xterm,
> then I CAN cut and paste between those two. If I understand your post
> correctly, I should be able to use highlight and middle-button paste between
> TERMINAL windows, not xterms that I fire up from the Terminal application.
>
> So, in my setup, the terminal app does worse than xterm in X11, where at
> least cut and paste work OK. I'd appreciate any suggestions on how to solve
> this problem.

X-Windows apps copy to the X-Windows server buffer.  That buffer is available
for pasting to other X-windows apps, but not to Mac apps.

Mac apps copy to the OS X global buffer, which will transfer just about anything
(pictures, text, etc.) to another Mac app.  Unfortunately, communication between
X-Windows and the rest of the Mac OS X is virtually nonexistent.

Terminal.app is a standard Mac application, so copy and paste use cmd-c and
cmd-v.  You can copy and paste between Terminal windows and other Mac apps, or
between different Terminal windows.  If your 3-button mouse has a control panel,
you may be able to program it to work like an X-Windows mouse for copy and paste.

> By the way, what fonts do you use in your terminals? The list of choices is
> very long.

I like Monaco.

Cheers, Ken B.

---

Subject: Re: CURSOR problems
Posted by JD Smith on Wed, 24 Aug 2005 18:17:14 GMT
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You might find some hints here:

http://www-astro.physics.ox.ac.uk/~eme/mac.html#X11tips

'pbpaste' is quite useful.  Going from OSX->X11 is easy, as any copy command gets put on the X11 clipboard.  The other way is a bit more challenging.

JD

---