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Subject: Re: Mac Program Support  
Posted by [JD Smith](#) on Wed, 24 Aug 2005 21:09:47 GMT  
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On Wed, 24 Aug 2005 12:52:37 -0600, David Fanning wrote:

- > Folks,
- >
- > Since this has turned into a Mac support help-line, I have a question.
- > Person in my IDL class today has a new Mac running IDL 6.2. She crashed in
- > a widget event handler and couldn't get out.
- >
- > I said "Type RETALL". She did, and she *\*still\** couldn't get out of the
- > event handler code. We had to recompile the program itself before we could
- > get back to the main IDL level. Is this normal? Did I miss something? I
- > didn't have time to stop and ponder this, but it was weird.

Not a Mac-only issue, but if you have a big backlog of the same events which triggered the crash, all queued up in the event system (e.g. a bug in your motion event handling, just as you've scribbled all around a draw widget), then RETALL will simply allow the next event to come through, and trigger the bug again, putting you right back where you started (or so it would appear). Once you fix the bug and re-compile the program, the events flow through freely. But, sometimes you just want to get the heck out and do something else though. I use the following snippet (actually bound to a key in IDLWAVE) to first clear all events from the queue, and then RETALL:

```
__wa=widget_info(/managed)
for i=0,n_elements(__wa)-1 do widget_control,__wa[i], /clear_events
retall
```

JD

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Subject: Re: Mac Program Support  
Posted by [David Fanning](#) on Thu, 25 Aug 2005 02:37:27 GMT  
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JD Smith writes:

- > Not a Mac-only issue, but if you have a big backlog of the same events
- > which triggered the crash, all queued up in the event system (e.g. a
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- > through, and trigger the bug again, putting you right back where you
- > started (or so it would appear). Once you fix the bug and re-compile
- > the program, the events flow through freely. But, sometimes you just

- > want to get the heck out and do something else though. I use the
- > following snippet (actually bound to a key in IDLWAVE) to first clear
- > all events from the queue, and then RETALL:

This sounds like the scenario, although I've never seen it before. I can understand if you process another queued event with a RETURN, but with a RETALL!? Seems weird to me.

Also, running my (award winning!) FSC\_SURFACE program produces a boat load of underflow warnings. What is that about? And why, RSI, can't we turn these damn things off easily?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Mac Program Support

Posted by [JD Smith](#) on Thu, 25 Aug 2005 21:28:48 GMT

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On Wed, 24 Aug 2005 20:37:27 -0600, David Fanning wrote:

> JD Smith writes:

>

>> Not a Mac-only issue, but if you have a big backlog of the same events  
>> which triggered the crash, all queued up in the event system (e.g. a bug  
>> in your motion event handling, just as you've scribbled all around a  
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>

> This sounds like the scenario, although I've never seen it before. I can  
> understand if you process another queued event with a RETURN, but with a  
> RETALL!? Seems weird to me.

One of the joys of the active command line.

JD

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Subject: Re: Mac Program Support  
Posted by [David Fanning](#) on Fri, 26 Aug 2005 01:27:17 GMT  
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JD Smith writes:

> One of the joys of the active command line.

I've been doing this a LONG time, but today I saw this on a PC, too. What in the world have I been paying attention to!? RETALL has \*never\* failed me, ever! I feel like I'm in some kind of time warp... :-)

Here is another thing today that surprised me. Two people in the class have new Mac laptops. I have a little program, PickColorName, that displays 96 small draw widgets and fills them with a color with Polyfill. Colors appears instantaneously on a Windows PC. But on the Macs (both of them) the draw widgets appear all in black, then a second or so later the colors appear. It is VERY slow.

I was shocked, really. I hear so much about how Macs are perfect for graphics applications, but this looked more like the VAX VMS workstations I learned IDL on 20 years ago. Any ideas about why this happens? One of the Mac users told me it is common with some of her applications, too.

Cheers,

David

--

David Fanning, Ph.D.  
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Subject: Re: Mac Program Support  
Posted by [jm](#) on Fri, 26 Aug 2005 10:21:45 GMT  
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Tried it here on a Desktop G5: pops-up instantly. The G5 is no doubt faster than the laptops, but not that much faster. Too little RAM perhaps? IDL, of course, runs under X-windows (X11) on the Mac, not the native (PDF-based) Aqua. I suspect that X11 on the Mac may be a little slow for widget-heavy applications, but plenty fast for straightforward display, e.g. surface plots etc.

-John

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Subject: Re: Mac Program Support

Posted by [George N. White III](#) on Fri, 26 Aug 2005 11:37:42 GMT

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On Thu, 25 Aug 2005, David Fanning wrote:

- > Here is another thing today that surprised me. Two people
- > in the class have new Mac laptops. I have a little program,
- > PickColorName, that displays 96 small draw widgets and fills
- > them with a color with Polyfill. Colors appears instantaneously
- > on a Windows PC. But on the Macs (both of them) the draw widgets
- > appear all in black, then a second or so later the colors appear.
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- >
- > I was shocked, really. I hear so much about how Macs are
- > perfect for graphics applications, but this looked more like
- > the VAX VMS workstations I learned IDL on 20 years ago.
- > Any ideas about why this happens? One of the Mac users
- > told me it is common with some of her applications, too.

If those were PC's you would look for VISTA (Vlruses, Trojans, Spy-ware, and Add-ware) stealing cycles.

Are the Macs connected to a network?

A couple weeks ago my WinXP system became sluggish and started giving "Windows delayed write failed" errors. The initial diagnosis, after ruling out VISTA or a bad disk, was a bad network adapter, but after replacing the mainboard twice, and trying different ports on the ethernet switch, I swapped the system for another PC and got the same symptoms. It turned out the network interface (set to autonegotiate) was running 100/half while the switch was coming up 100/full. Now that I know what to look for, I found the another PC on the same switch with the same problem. Linux on the same PC's was also sluggish (copying files by ftp maxed out at 40kB/s).

People pay a lot of attention to user interface experiences, but hardly any attention to diagnostics to determine why a system seems sluggish. In my experience (heavily weighted to unix and PC's), hardware failures, network infrastructure issues, VISTA, and disks at 99.6% of their capacity are all common reasons for users asking for new machines (e.g., substandard performance with their existing machine).

--

George N. White III <aa056@chebucto.ns.ca>

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Subject: Re: Mac Program Support  
Posted by [Haje Korth](#) on Fri, 26 Aug 2005 12:31:22 GMT  
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David,  
so you are an IDL 1.0 user, too. I was still in high school when I had my first experience with that version on the VAX. However, it seems that you proceeded on the IDL learning curve a lot quicker than I did...  
Anyway, with the introduction of the `.full_session_reset` in I believe 5.0 (?), I pretty much scrapped `retall`, because `.f` is just quicker to type than `retall`, and most of the time it is also less keystrokes than getting 'retall' back from the command line buffer. So, why do I still need `retall`?

Cheers,  
Haje

"David Fanning" <davidf@dfanning.com> wrote in message  
news:MPG.1d781dcfcc165945989a5b@news.frii.com...

> JD Smith writes:

>

>> One of the joys of the active command line.

>

> I've been doing this a LONG time, but today I saw  
> this on a PC, too. What in the world have I been  
> paying attention to!? RETALL has \*never\* failed me,  
> ever! I feel like I'm in some kind of time warp... :-(

>

> Here is another thing today that surprised me. Two people  
> in the class have new Mac laptops. I have a little program,  
> `PickColorName`, that displays 96 small draw widgets and fills  
> them with a color with `Polyfill`. Colors appears instantaneously  
> on a Windows PC. But on the Macs (both of them) the draw widgets  
> appear all in black, then a second or so later the colors appear.  
> It is VERY slow.

>

> I was shocked, really. I hear so much about how Macs are  
> perfect for graphics applications, but this looked more like  
> the VAX VMS workstations I learned IDL on 20 years ago.  
> Any ideas about why this happens? One of the Mac users  
> told me it is common with some of her applications, too.

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Mac Program Support  
Posted by [K. Bowman](#) on Fri, 26 Aug 2005 14:00:45 GMT  
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In article <MPG.1d781dcfcc165945989a5b@news.frii.com>,  
David Fanning <davidf@dfanning.com> wrote:

> Here is another thing today that surprised me. Two people  
> in the class have new Mac laptops. I have a little program,  
> PickColorName, that displays 96 small draw widgets and fills  
> them with a color with Polyfill. Colors appears instantaneously  
> on a Windows PC. But on the Macs (both of them) the draw widgets  
> appear all in black, then a second or so later the colors appear.  
> It is VERY slow.

I tried it on my desktop and my laptop. It pops up instantly on my desktop. I can see it draw the boxes on my laptop, but I wouldn't call it \*slow\*. It's hard to say where in the graphics pipeline the bottleneck might be. It's not the graphics chip per se, because I can render 3-D surfaces on my laptop in IDL and rotate them in real time with the mouse with essentially instantaneous response.

Ken Bowman

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Subject: Re: Mac Program Support  
Posted by [David Fanning](#) on Fri, 26 Aug 2005 14:18:57 GMT  
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Kenneth Bowman writes:

> I tried it on my desktop and my laptop. It pops up instantly on my desktop. I  
> can see it draw the boxes on my laptop, but I wouldn't call it \*slow\*. It's  
> hard to say where in the graphics pipeline the bottleneck might be. It's not  
> the graphics chip per se, because I can render 3-D surfaces on my laptop in IDL  
> and rotate them in real time with the mouse with essentially instantaneous  
> response.

I am wondering if the problem is in creating draw widgets.  
Could this be slow because of the X11 connection? The other slowly appearing application that this woman told me about also uses quite a number of draw widgets.

Cheers,

David

--

David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
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Subject: Re: Mac Program Support  
Posted by [K. Bowman](#) on Fri, 26 Aug 2005 14:31:46 GMT  
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In article <MPG.1d78d2c0bd4d4cd7989a5d@news.frii.com>,  
David Fanning <davidf@dfanning.com> wrote:

- > I am wondering if the problem is in creating draw widgets.
- > Could this be slow because of the X11 connection? The other
- > slowly appearing application that this woman told me about
- > also uses quite a number of draw widgets.

Could be, but I couldn't begin to guess whether it is an IDL issue, a graphics card driver issue, or some layer of Apple software in between.

It's also possible that it is something to do with POLYFILL. I seem to recall that TVing a blocky image is much faster than drawing the equivalent with POLYFILL.

Ken B.

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Subject: Re: Mac Program Support  
Posted by [Henry](#) on Fri, 26 Aug 2005 17:13:59 GMT  
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There are a couple different ways people launch X11 on the Mac and they can have dramatically different graphic display speeds.

I don't recall all the details. (In part I don't fully understand the layering of the different X11/Aqua/OSX/etc components, and in part my experience was during a recovery from a system corruption 36 hours before a major deadline.) If I installed plain old X11 from Apple (with 10.4 it's on the install disk) and launch the X11 application, IDL graphics are fast. If installed other versions and used them (e.g. OroboroOSX) then IDL graphics were extraordinarily slow. (even on my 2xG5 2.5Ghz)).

My guess is the answer is to full reinstall X11 and use Apple's version, rather than one of the installs.

cheers,  
-henry

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