Subject: IDL Segmentation Fault Posted by Bill Anderson on Tue, 03 Oct 2006 15:51:24 GMT View Forum Message <> Reply to Message

Hi,

Has anyone run into this problem? I have running IDL 6.2 student edition for the past month with no problems on a MacPro Book (MacOS X 10.4) notebook. This weekend I updated my MacOS to 10.4.8 and now when I try to run idl from X11, it crashes with a "Segmentation Fault".

/Users/wmandersonjr/idl IDL Student Edition 6.2, Mac OS X (darwin ppc m32). (c) 2005, Research Systems, Inc. Segmentation fault /Users/wmandersonjr/

Bill Anderson

Subject: Re: IDL Segmentation Fault Posted by Karl Schultz on Wed, 04 Oct 2006 18:26:49 GMT View Forum Message <> Reply to Message

On Wed, 04 Oct 2006 09:06:26 -0700, mankoff wrote:

```
> David Fanning wrote:
>> Bill Anderson writes:
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>>> Segmentation fault
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>>
>> You might find this article helpful:
>>
     http://www.dfanning.com/tips/maccrash.html
>>
>>
>> Also, we discussed this problem right here less than two weeks
>> ago, it seems to me. Check the archives.
>>
>
>
```

> I've read that article and searched the archives. I'm using IDL 5.6 on > a Intel MacBook. X11 programs work fine, but IDL is segfaulting > nonetheless. If DISPLAY is :0.0 then xeyes works and IDL segfaults > > If DISPLAY is 0:0 then IDL will run but provides error messages when > trying to access the display, like so: > X11TransSocketINETConnect() can't get address for 0:6000: No address > associated with nodename > % Unable to connect to X Windows display: 0:0 > > Any advice? > This just started vesterday when I upgraded to 10.4.8. >

Yes, I've been looking at this recently, and have collected some hopefully useful information.

-k.

>

IDL PPC binaries of any release now appear to crash when running on an Intel Mac under Rosetta emulation with OS X 10.4.8. The problem didn't occur with OS X 10.4.7. The crash logs indicate a crash in libXt. Since the *only* change made to the environment where I observed all of this was upgrading from 10.4.7 to 10.4.8, I am inclined to suspect the Apple update to 10.4.8.

Some web searching reveals that there are more than a few problems with the 10.4.8 upgrade on Intel Macs. One person reported a similar crash with Matlab 7.1 under the same conditions. The report indicated that the Matlab crashes started after the upgrade to 10.4.8 was applied. Same situation, same problem, I think. One could also extend this thought to the possibility that any PPC binary X11 application running under Rosetta on an Intel based OS X 10.4.8 might crash.

Therefore IDL users of versions prior to 6.3 probably should not upgrade their Intel Macs to 10.4.8.

IDL 6.3 users should really get the Intel binaries for IDL that are available from ITTVIS. Not only would this relieve this particular 10.4.8 problem, but the Intel binaries run faster on the Intel Mac.

The PPC-based hardware does not seem to be adversely affected by this OS X upgrade.

I'm going to go ahead and report this problem to Apple, and all we can do is hope that they'll take the time from the Leopard schedule to release a patch for this seemingly defective OS X upgrade.

That's the best I can do for now,

Karl

```
Subject: Re: IDL Segmentation Fault
Posted by mankoff on Wed, 04 Oct 2006 22:09:13 GMT
View Forum Message <> Reply to Message
Karl Schultz wrote:
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>> David Fanning wrote:
>>> Bill Anderson writes:
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  is hope that they'll take the time from the Leopard schedule to release a
  patch for this seemingly defective OS X upgrade.
>
  That's the best I can do for now,
>
> Karl
```

Thanks for taking this up with Apple. Any luck just swapping out libXt

```
Subject: Re: IDL Segmentation Fault
Posted by Karl Schultz on Wed. 04 Oct 2006 23:34:44 GMT
View Forum Message <> Reply to Message
On Wed, 04 Oct 2006 15:09:13 -0700, mankoff wrote:
> Karl Schultz wrote:
>> On Wed, 04 Oct 2006 09:06:26 -0700, mankoff wrote:
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>>>> Bill Anderson writes:
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>> is hope that they'll take the time from the Leopard schedule to release a
   patch for this seemingly defective OS X upgrade.
>>
>> That's the best I can do for now,
>>
>> Karl
  Thanks for taking this up with Apple. Any luck just swapping out libXt
  with the previous version? I don't have access to my backup disk for
> another 10 days while I travel so I cannot test this.
```

I wouldn't even try it, because even if it worked, nobody would want to do anything important in that sort of environment. I would also think that more than just that one module is involved. And I didn't see any crashes when using a VNC server on the same box, so the X server itself may be part of the problem.

And by the way, I did copy the /usr/X11R6/bin/xclock binary from a ppc OS X machine and it crashed on the intel 10.4.8 machine, as I suspected it would. That's the way I filed the bug with Apple.

Karl

Subject: Re: IDL Segmentation Fault Posted by Xavi Llort on Thu, 05 Oct 2006 08:43:18 GMT View Forum Message <> Reply to Message

As some days ago I told in a post, I had a similar problems with IDL 6.1 running in an intel Mac (Core-2-Duo), but I was using 10.4.7! So maybe the problem is not completly due to 10.4.8 update and there are some issues also in previous updates...

Xavi

Subject: Re: IDL Segmentation Fault Posted by mankoff on Thu, 02 Nov 2006 21:24:25 GMT View Forum Message <> Reply to Message

Hi Folks,

I just got an Apple Update to X11 and this problem is now fixed.

Subject: Re: IDL Segmentation Fault Posted by Karl Schultz on Thu, 02 Nov 2006 22:57:10 GMT View Forum Message <> Reply to Message

On Thu, 02 Nov 2006 13:24:25 -0800, mankoff wrote:

- > Hi Folks,
- _
- > I just got an Apple Update to X11 and this problem is now fixed.

Yup, works here as well.

Now 10.4.8 + the 2006 X11 Update is a good config for Intel macs.

10.4.8 fixes the memory corruption bug and the X update allows PPC X11 clients to run.

Kudos to Apple for a timely fix.

Karl

Subject: Re: IDL Segmentation Fault

Posted by Paul Van Delst[1] on Fri, 03 Nov 2006 16:26:28 GMT

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Karl Schultz wrote:

> On Thu, 02 Nov 2006 13:24:25 -0800, mankoff wrote:

>

>> Hi Folks,

>>

>> I just got an Apple Update to X11 and this problem is now fixed.

> Yup, works here as well.

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- > clients to run.

Oo oo... which X11 update is this? Is this separate from the Xcode 2.4 update? I did the latter and my IDL still segfaults (mbp, intel core duo whatsit, 10.4.8)

paulv

--

Paul van Delst Ride lots. CIMSS @ NOAA/NCEP/EMC

Eddy Merckx

Ph: (301)763-8000 x7748 Fax:(301)763-8545

Subject: Re: IDL Segmentation Fault

Posted by David Fanning on Fri, 03 Nov 2006 16:30:29 GMT

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Paul van Delst writes:

- > Oo oo... which X11 update is this? Is this separate from the Xcode 2.4 update? I did the
- > latter and my IDL still segfaults (mbp, intel core duo whatsit, 10.4.8)

I'm curious, too. I put a link in my web page article,

but I'm not at all sure it is the correct one:

http://www.dfanning.com/misc_tips/macsegfault.html

(Bottom of article.)

Cheers,

David

_-

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: IDL Segmentation Fault

Posted by Paul Van Delst[1] on Fri, 03 Nov 2006 16:45:55 GMT

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David Fanning wrote:

> Paul van Delst writes:

>

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- >> latter and my IDL still segfaults (mbp, intel core duo whatsit, 10.4.8)

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- > but I'm not at all sure it is the correct one:

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http://www.dfanning.com/misc_tips/macsegfault.html

>

> (Bottom of article.)

Thanks for the link. Reading the above, I recalled that my friendly sysadmins are still trying to get a hold of a license for the Intel-based version of 6.3 (I still have the universal binary (?) version, hence the crashage).

It's been a couple weeks now, too - I guess ITTVIS are inundated with these license requests right now.

pauly

--

Paul van Delst Ride lots. CIMSS @ NOAA/NCEP/EMC

Eddy Merckx

Ph: (301)763-8000 x7748

Fax:(301)763-8545

Subject: Re: IDL Segmentation Fault

Posted by K. Bowman on Fri, 03 Nov 2006 17:27:01 GMT

View Forum Message <> Reply to Message

In article <MPG.1fb51c92cab64ffb989d92@news.frii.com>, David Fanning <news@dfanning.com> wrote:

- > Paul van Delst writes:
- >
- >> Oo oo... which X11 update is this? Is this separate from the Xcode 2.4
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http://www.dfanning.com/misc_tips/macsegfault.html

> (Bottom of article.)

- > > Cheers.
- _ (
- > David

Just run software update on your Mac. You will see

X11 Update 2006 1.1.2 51 MB

This is different from the XCode security update.

Cheers, Ken Bowman

Subject: Re: IDL Segmentation Fault

Posted by Paul Van Delst[1] on Fri, 03 Nov 2006 17:39:16 GMT

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Kenneth Bowman wrote:

- > In article <MPG.1fb51c92cab64ffb989d92@news.frii.com>,
- > David Fanning <news@dfanning.com> wrote:

>

>> Paul van Delst writes:

>>

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o.k. thanks, I'll doublecheck. (Last time it popped up all I saw listed were iTunes and
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paulv
Paul van Delst
                     Ride lots.
CIMSS @ NOAA/NCEP/EMC
                                     Eddy Merckx
Ph: (301)763-8000 x7748
Fax:(301)763-8545
```

Subject: Re: IDL Segmentation Fault Posted by David Fanning on Fri, 03 Nov 2006 17:43:48 GMT View Forum Message <> Reply to Message

Paul van Delst writes:

- > o.k. thanks, I'll doublecheck. (Last time it popped up all I saw listed were iTunes and
- > Garageband; o)

Well, get those, too. Otherwise the "work efficiency" numbers are going to be all shot to hell. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: IDL Segmentation Fault Posted by Paul Van Delst[1] on Fri, 03 Nov 2006 18:38:09 GMT

View Forum Message <> Reply to Message

David Fanning wrote:

> Paul van Delst writes:

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- >> o.k. thanks, I'll doublecheck. (Last time it popped up all I saw listed were iTunes and
- >> Garageband;o)

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- > Well, get those, too. Otherwise the "work efficiency" numbers
- > are going to be all shot to hell. :-)

Nah, my macbook is a pure work machine. The less crud I have on it the better. However, work efficiency would be *greatly* enhanced if multiple desktops were available like in stock RH linux distros[*] Or if OSX was an actual Unix OS. Or, most importantly, if the darn thing didn't crash several times a day.[+]

Now, the iMac sitting next to my macbook, that's another matter.... it only crashes once a week or so and iTunes is up-to-doodly-date. :o)

paulv

- [*] I know there are multi-desktop apps available for Apples I've tried a couple and quickly uninstalled them.
- [+] Problem partially solved via making the thing hibernate rather than sleep.

--Daul var

Paul van Delst Ride lots. CIMSS @ NOAA/NCEP/EMC

Eddy Merckx

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Fax:(301)763-8545

Subject: Re: IDL Segmentation Fault

Posted by K. Bowman on Fri, 03 Nov 2006 18:57:09 GMT

View Forum Message <> Reply to Message

In article <eig2ai\$3g4\$1@news.nems.noaa.gov>, Paul van Delst <Paul.vanDelst@noaa.gov> wrote:

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That seems like a lot of crashes. I won't say mine never crashes, but it is a very rare event.

I never sleep my desktop Mac. It causes problems with the network file mounts.

I sleep my Powerbook every time I move it from work to home. Every couple of weeks it gets tired of the constant network changes and quits connecting, so I restart it. It helps to be sure that volumes are unmounted before sleeping.

Ken Bowman

Subject: [OT] Re: IDL Segmentation Fault Posted by Paul Van Delst[1] on Fri, 03 Nov 2006 19:45:16 GMT View Forum Message <> Reply to Message

Kenneth Bowman wrote:

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>

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- > very rare event.

Yeah it's a lot of crashes. This was my first ever foray into the non-PC linux world and, boy, it makes windows machines look supa-stable. I reboot my linux desktop about, oh, twice a year -- that the reliability I'm used to. Granted laptops are another ball of wax, but even there I think once a month is too often. Macbook pro constant crashes are very common (google it.. I was amazed). The sad thing is that the first piece of hardware that Apple produced that wasn't apparently rock-solid is the one I started with. Good timing, hey? :o)

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- I sleep my Powerbook every time I move it from work to home. Every couple of
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- > restart it. It helps to be sure that volumes are unmounted before sleeping.

There are multiple issues with the sleeping/crashing problems with Intel macbook pros. By far and away the most common theory is that, in some cases, the temperature sensor wires are too close to the CPU heat sink and, since these machines run hot, sometimes the wire casing melts away causing intermittent shorting and the machine shuts down. Googling this topic will get you many hits. I have had one person tell me about a lid-latch issue - somehow the sensor that detects the laptop is open is tripped even when it's closed and the thing wakes up while in your laptop back .. and is very hot when it comes out. In other cases, not turning off the bluetooth auto-detect may be causing the laptops to wake up en route somewhere and again, it's hot when it comes out of the bag.

I haven't yet figured out why my laptop was crashing contantly, but I suspect its hotness. It only happens when it's connected to all my other bits at home (display, external drive, wireless mouse/keyboard); on travel using it as an actual laptop it's fine. At home, making it hibernate rather than sleep helped - the inconvenience of having to press the "on" button and wait about 2-3 minutes for it to wake up is acceptable compared to the alternative.

Anyway
cheers,
paulv

>

Paul van Delst Ride lots. CIMSS @ NOAA/NCEP/EMC Ph: (301)763-8000 x7748

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Eddy Merckx