Subject: Re: segfaults on ubuntu 9.04
Posted by Matt[2] on Wed, 16 Dec 2009 20:13:16 GMT

View Forum Message <> Reply to Message

Just a little more information:

I have tried switching the hardware/software rendering, neither one
has any effect on the crashes.
It crashes at the commandline or using the workbench.

If I set the preferences to have backingstore controled by IDL (option
2), it still segfaults from the commandline, but the workbench seems
to swallow the command happily and do nothing with it.

I'm also getting a warning on the commandline when I do the first tv
command.

IDL Version 7.1.1 (linux x86 m32). (c) 2009, ITT Visual Information
Solutions
Installation number: 100-1461.
Licensed for use by: University of Colorado (MAIN)

IDL> tv, dist(33,33)
% Compiled module: DIST.
unknown chip id 0x9593, can't guess.

Maybe this rings a bell?

Thanks
Matt

Subject: Re: segfaults on ubuntu 9.04
Posted by R.Bauer on Thu, 17 Dec 2009 07:57:56 GMT

View Forum Message <> Reply to Message

Matt schrieb:
>
> Just a little more information:
>
> I have tried switching the hardware/software rendering, neither one
> has any effect on the crashes.
> It crashes at the commandline or using the workbench.
>
> If I set the preferences to have backingstore controled by IDL (option
> 2), it still segfaults from the commandline, but the workbench seems

> to swallow the command happily and do nothing with it.
>
> I'm also getting a warning on the commandline when I do the first tv
> command.
>
> IDL Version 7.1.1 (linux x86 m32). (c) 2009, ITT Visual Information
> Solutions
> Installation number: 100-1461.
> Licensed for use by: University of Colorado (MAIN)
>
> IDL> tv, dist(33,33)
> % Compiled module: DIST.
> unknown chip id 0x9593, can't guess.
>
>
>
> Maybe this rings a bell?
>
> Thanks
> Matt

You are sitting quite close to the headquarter of ittvis
"University of Colorado" sounds familiar to me. Isn't it located in
Boulder? I remember it from a cold day in October.

If so why not ringing the right bell?

cheers
Reimar

Subject: Re: segfaults on ubuntu 9.04
Posted by Matt[2] on Thu, 17 Dec 2009 14:57:32 GMT
View Forum Message <> Reply to Message

Reimar Bauer <R.Bauer@fz-juelich.de> writes:
> Matt schrieb:
>>
>> Just a little more information:
>> Maybe this rings a bell?
>> Thanks
>> Matt
>
> You are sitting quite close to the headquarter of ittvis
> "University of Colorado" sounds familiar to me. Isn't it located in
> Boulder? I remember it from a cold day in October.
>
> If so why not ringing the right bell?

I am actually working with them as well, but I find that often this
newsgroup gets you faster more appropriate answers.

Thanks,
M

--
Matthew Savoie - Scientific Programmer
National Snow and Ice Data Center
(303) 735-0785   http://nsidc.org

Subject: Re: segfaults on ubuntu 9.04
Posted by R.Bauer on Thu, 17 Dec 2009 15:51:53 GMT
View Forum Message <> Reply to Message

savoie@nsidc.org schrieb:
>
> Reimar Bauer <R.Bauer@fz-juelich.de> writes:
>> Matt schrieb:
>>> Just a little more information:
>>> Maybe this rings a bell?
>>> Thanks
>>> Matt
>> You are sitting quite close to the headquarter of ittvis
>> "University of Colorado" sounds familiar to me. Isn't it located in
>> Boulder? I remember it from a cold day in October.
>>
>> If so why not ringing the right bell?
>
> I am actually working with them as well, but I find that often this
> newsgroup gets you faster more appropriate answers.
>

please report results also here. We can only workaround bugs and real
fixes can be done only by them.

cheers
Reimar

Subject: Re: segfaults on ubuntu 9.04
Posted by Matt[2] on Thu, 17 Dec 2009 16:26:48 GMT
View Forum Message <> Reply to Message

savoie@nsidc.org writes:

> I am actually working with them as well, but I find that often this
> newsgroup gets you faster more appropriate answers.
> Thanks,
> M

I continue to follow up to my own post, but in case it helps someone
else, the solution ITTVIS came up with was to try:

> 2- Can you try to rename two GL drivers in the 32 and the 64
> directories?:
>
> cd /usr/local/itt/idl71/bin/bin.linux.x86/
> mv gl_driver.so gl_driver.so.back
>
> cd /usr/local/itt/idl71/bin/bin.linux.x86_64
> mv gl_driver.so gl_driver.so.back

This apparently works and if it doesn't I'll follow up again. :)

Matt

--
Matthew Savoie - Scientific Programmer
National Snow and Ice Data Center
(303) 735-0785   http://nsidc.org

___

Subject: Re: segfaults on ubuntu 9.04
Posted by Karl[1] on Thu, 17 Dec 2009 16:54:14 GMT
View Forum Message <> Reply to Message

On Dec 17, 10:26 am, sav...@nsidc.org wrote:
> sav...@nsidc.org writes:
>> I am actually working with them as well, but I find that often this
>> newsgroup gets you faster more appropriate answers.
>> Thanks,
>> M
>
> I continue to follow up to my own post, but in case it helps someone
> else, the solution ITTVIS came up with was to try:
>
>> 2- Can you try to rename two GL drivers in the 32 and the 64
>> directories?:
>
>> cd /usr/local/itt/idl71/bin/bin.linux.x86/
>> mv gl_driver.so gl_driver.so.back
>

>> cd /usr/local/itt/idl71/bin/bin.linux.x86_64
>> mv gl_driver.so gl_driver.so.back
>
> This apparently works and if it doesn't I'll follow up again. :)
>
> Matt
>
> --
> Matthew Savoie - Scientific Programmer
> National Snow and Ice Data Center
> (303) 735-0785 http://nsidc.org

Renaming those files disables the Object Graphics hardware-accelerated
rendering path. You are not using OG by running the TV command, but I
guess that the drivers are getting loaded anyway somehow.

Anyway, in Linux, those gl_driver.so libraries use whatever OpenGL
libraries and drivers are installed on your Ubuntu installation. The
error message suggests a problem with drivers associated with the
OpenGL libraries. Therefore, the problem may be outside of IDL and in
the graphics drivers installed in the OS.

One direction, which should have been suggested by ITTVIS support,
would be to check out your OpenGL drivers with other applications.
Try running glxgears, which is shipped in that distro. Glxgears is a
simple test program that can be used to see if the OpenGL libs are
basically working. Might try googling around for any known problems
with OpenGL on your particular distro and hardware (graphics
adapter). Look for any driver updates from the graphics card vendor
and/or use the Ubuntu package manager to install alternate drivers.

Subject: Re: segfaults on ubuntu 9.04
Posted by Matt[2] on Thu, 17 Dec 2009 17:20:59 GMT
View Forum Message <> Reply to Message

Karl <karl.w.schultz@gmail.com> writes:

> Renaming those files disables the Object Graphics hardware-accelerated
> rendering path. You are not using OG by running the TV command, but I
> guess that the drivers are getting loaded anyway somehow.
>
> Anyway, in Linux, those gl_driver.so libraries use whatever OpenGL
> libraries and drivers are installed on your Ubuntu installation. The
> error message suggests a problem with drivers associated with the
> OpenGL libraries. Therefore, the problem may be outside of IDL and in
> the graphics drivers installed in the OS.
>

> One direction, which should have been suggested by ITTVIS support,
> would be to check out your OpenGL drivers with other applications.
> Try running glxgears, which is shipped in that distro. Glxgears is a
> simple test program that can be used to see if the OpenGL libs are
> basically working. Might try googling around for any known problems
> with OpenGL on your particular distro and hardware (graphics
> adapter). Look for any driver updates from the graphics card vendor
> and/or use the Ubuntu package manager to install alternate drivers.

That could be. I never installed the fglrx hardware graphics drivers
for this machine, it didn't work and I gave up since I wasn't noticing
any problems with the default drivers. My glxgears only generates ~300
fps.

Matt

--
Matthew Savoie - Scientific Programmer
National Snow and Ice Data Center
(303) 735-0785   http://nsidc.org