Subject: wierd segmentation fault when execute theide
Posted by rodchang02 on Mon, 12 Feb 2007 15:33:29 GMT
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My platform is Gentoo Linux x86, and the version of Ultimate++ is 2007.1 beta3
When I execute theide as a root, everything goes fine.
However, if I execute it as general user, it goes to segmentation fault.

I used the gdb to check this problem and it appears

Starting program: /usr/bin/theide
(no debugging symbols found)
Failed to read a valid object file image from memory.
[Thread debugging using libthread_db enabled]
[New Thread -1215047488 (LWP 20873)]

Program received signal SIGSEGV, Segmentation fault.
[Switching to Thread -1215047488 (LWP 20873)]
0xb7dcec55 in XftCharExists () from /usr/lib/libXft.so.2

Since I am new, I can't figure out what's going on.
Any help would be appreciated.

Subject: Re: wierd segmentation fault when execute theide
Posted by guido on Mon, 12 Feb 2007 19:08:43 GMT
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Starting program: /usr/bin/theide
(no debugging symbols found)
Failed to read a valid object file image from memory.
[Thread debugging using libthread_db enabled]
[New Thread -1215047488 (LWP 20873)]

Program received signal SIGSEGV, Segmentation fault.
[Switching to Thread -1215047488 (LWP 20873)]
0xb7dcec55 in XftCharExists () from /usr/lib/libXft.so.2

I can only guess.

Maybe a bogus font pointer passed to XftCharExists().
Depending on what fonts you have and how they are configured in /etc/fonts, upp might not be

able to find a matching font and ends up with an unitialized pointer. That would be a bug.

LG Guido

Subject: Re: wierd segmentation fault when execute theide
Posted by ebojd on Mon, 12 Feb 2007 21:24:23 GMT
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I also use Gentoo and have not seen this problem. I'll email you off-list once I get the new source (rc1) compiled so we can figure out what the difference might be. I'll also look at throwing together an experimental ebuild.

Subject: Re: wierd segmentation fault when execute theide
Posted by mirek on Mon, 12 Feb 2007 22:18:46 GMT
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ebojd wrote on Mon, 12 February 2007 16:24
I'll also look at throwing together an experimental ebuild.

Actually, that would be great.

Mirek

Subject: Gentoo ebuild
Posted by ebojd on Tue, 13 Feb 2007 04:51:05 GMT
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OK... I've sat down to start writing the ebuild. Since rc1 does not appear to be up quite yet on sourceforge I'm starting with beta3.

I have the following questions that I'm pretty sure I know the answers to, but I'm going to ask anyway

1) what is the distribution license? <GPL-2 LGPL-2>

2) what is the one line description for U++? <DESCRIPTION="Cross Platform Integrated Development Environment">

3) is http://www.ultimatepp.org/ the official homepage?

4) what is the default install directory? <I've temporially chosen /opt/upp>

---

5) should we have multiple slots (for version 602, 605...)? The question here is should we allow for multiple instances simultaniously?

Last I did a bit of hackage to the Makefiles. Could I get some reviews and comments before I post them? The first (top Makefile) is attached. The forum interface would only allow me to post one file at a time...

File Attachments
1) Makefile.head_b3, downloaded 395 times

Subject: Re: Gentoo ebuild
Posted by ebojd on Tue, 13 Feb 2007 04:53:34 GMT
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Here is the second Makefile (from uppsrc/ide)...

File Attachments
1) Makefile.ide_b3, downloaded 390 times

Subject: Re: Gentoo ebuild
Posted by ebojd on Tue, 13 Feb 2007 04:55:44 GMT
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ps: The comments are rather simple but used to explained what changes I made. Once they are OK'ed I'll clean them up and submit.

Subject: Re: Gentoo ebuild
Posted by ebojd on Tue, 13 Feb 2007 05:23:06 GMT
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oops... The uppsrc/ide/Makefile was not the newest. The proper version uses "pkg-config gtk+-2.0 --cflags" to set CINC, etc. I have to get some sleep and will post a few changes tomorrow.

Subject: Re: wierd segmentation fault when execute theide
Posted by tomek on Fri, 18 May 2007 14:11:15 GMT
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Hi,

I have very simlar error on my gentoo. I made some debug and here is result:

file: upp-2007.1/uppsrc/Draw/DrawTextXft.cpp
funciton: static bool sCheckComposed(const char *face)

XftFontOpen() sometimes cannot open font, (in my case it is "ProFont" font) then it returns NULL.
There is no checking so invalid pointer is used in XftCharExists() function.

Im not sure about logic of this function, but it should look like this to avoid segmentation fault:


```
static bool sCheckComposed(const char *face)
{
    XftFont *xftfont = XftFontOpen(Xdisplay, Xscreenno,
                       XFT_FAMILY, XftTypeString, (char *)face,
                       XFT_PIXEL_SIZE, XftTypeInteger, 20,
                       (void *)0);
/// ---------
    if( xftfont == NULL )
         return false;
/// ---------
    int n = 0;
    for(int c = 0; c < 128; c++)
         if(!XftCharExists(Xdisplay, xftfont, c + 256))
             n++;

    XftFontClose(Xdisplay, xftfont);
    return n > 10;
}
```


Probably font which cannot be opened should not be either collected by Draw::InitPlatformFonts()
function.

Could someone fix it and provide new ebuild ?

When upp will be available in "standard" gentoo-portage tree?

Thanks,
 Tom