
Subject: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [Mindtraveller](#) on Sat, 28 Mar 2009 02:45:34 GMT

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An attempt to compile U++ TheIDE under FreeBSD 7.1-STABLE failed with many linking errors. They appear for both Debug & Optimal modes, as well as Static or Shared libs options.

Does anyone have an idea how to avoid this?

Quote:Linking...

```
/home/paul/upp/out/ide/GCC.Debug.Gui.Main.Nogtk/$blitz.o(.text+0x28d6): In function `sPid()':
```

```
: undefined reference to `__cxa_guard_acquire'
```

```
/home/paul/upp/out/ide/GCC.Debug.Gui.Main.Nogtk/$blitz.o(.text+0x28ff): In function `sPid()':
```

```
: undefined reference to `__cxa_guard_release'
```

```
/home/paul/upp/out/ide/GCC.Debug.Gui.Main.Nogtk/$blitz.o(.text+0x298d): In function
```

```
`TemplateDlg::ActualTemplate()':
```

```
: undefined reference to `__cxa_guard_acquire'
```

```
...
```

```
...
```

```
...
```

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [Mindtraveller](#) on Sat, 28 Mar 2009 13:42:42 GMT

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UPD: The same errors are with GCC 4.1.

Note: "Clean" FreeBSD installation, no packages magic was made.

SOLVED!: I should use g++ instead of gcc Foolish mistake

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [Mindtraveller](#) on Wed, 01 Jul 2009 14:50:54 GMT

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U++ 2008.1 compiles and links successfully on FreeBSD 7.1. While latest SVN 1349 version fails to link with GCC 4.3 on FreeBSD 7.1 with these errors:

```
----- ide ( GUI MAIN GCC SHARED FREEBSD ) (34 / 34)
```

```
...
```

```
ide: 42 file(s) built in (4:29.45), 6415 msecs / file, duration = 270151 msecs
```

```
Linking...
```

```
/home/paul/upp/out/CtrlLib/GCC.Gui.Shared/CtrlLib.a(ScrollBar.o)(.text+0x86b): In function
```

```
`Upp::SizeGrip::LeftDown(Upp::Point_<int>, unsigned int)':
```

```
: undefined reference to `XUngrabPointer'
```

```
/home/paul/upp/out/CtrlLib/GCC.Gui.Shared/CtrlLib.a(ScrollBar.o)(.text+0x8f5): In function
```

```
`Upp::SizeGrip::LeftDown(Upp::Point_<int>, unsigned int)':
```

: undefined reference to `XSendEvent'
/home/paul/upp/out/CtrlLib/GCC.Gui.Shared/CtrlLib.a(MenuBar.o)(.text+0x4b6): In function
`Upp::MenuBar::PopUp(Upp::Ctrl*, Upp::Point_<int>, Upp::Size_<i
nt>):
: undefined reference to `XSync'
/home/paul/upp/out/CtrlLib/GCC.Gui.Shared/CtrlLib.a(ChGtk.o)(.text+0x74): In function
`Upp::GtkInt(_GtkWidget*, char const*):
: undefined reference to `gtk_widget_style_get'
...
There were errors. (23:20.29) Can anyone help?

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [mirek](#) on Wed, 01 Jul 2009 17:16:02 GMT
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Looks like it does not link with xlib, for any reason...

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [Mindtraveller](#) on Wed, 01 Jul 2009 17:39:31 GMT
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It is strange that 2008.1 version links perfectly while latest SVN has errors. I wonder if it is a way to localize the cause.

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [Mindtraveller](#) on Wed, 01 Jul 2009 22:00:28 GMT
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Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [Mindtraveller](#) on Fri, 03 Jul 2009 11:40:44 GMT
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SOLVED!

Adding two libraries: gtk-x11-2.0 and Xft made linking perfect. A don't really know why they were not included in U++ dependency libs - may be problem with names?..

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [Mindtraveller](#) on Mon, 06 Jul 2009 08:44:41 GMT

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Still have problems with compiling latest SVN U++ under FreeBSD 7.1.

Now each GUI application doesn't start with error message:Quote:terminate called after throwing an instance of ' __gnu_cxx::__concurrency_lock_error;

what(): __gnu_cxx::__concurrency_lock_error'

As far as I understand it has something to do with pthreads support. If anyone had this error, please help. Anyway, investigation continues.

UPDATE: this happens only in release mode (use shared libs).

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [Mindtraveller](#) on Mon, 06 Jul 2009 17:07:13 GMT

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OK, I'm here to post the latest investigation results for FreeBSD successful linkage. The libraries required (and which were absent in linkage list) were:

pthread for Core,

Xft gtk-x11-2.0 for Draw (tests shown these libs needed for both NOGTK and !NOGTK)

Then I've looked into these packages' settings and found these libraries, but the condition was BSD, not FREEBSD.

So here is what I propose.

Core:

[now] BSD -> pthread

[I propose] FREEBSD -> pthread

Or somehow set BSD instead of FREEBSD flag for FreeBSD OS.

Draw:

[now] (LINUX | BSD) & !NOGTK -> gtk-x11-2.0 ...

[I propose] LINUX | FREEBSD -> Xft gtk-x11-2.0 ...

And the quickest FreeBSD fix for the current TheIDE configuration is to add BSD flag into Build methods/Fixed flags for both Debug and Release.

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [masu](#) on Mon, 13 Jul 2009 09:29:37 GMT

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Hi Pavel,

sorry that I didn't answer earlier, I was in vacations.

The BSD flag needed for newer SVN versions was added long time after 2008.1 release. That

means if you compile SVN version with the 2008.1 version the first time you have to set BSD flag manually to get a good compilation run, because it is not set TheIDE-internally. Then after when you use the new compiled TheIDE version BSD flag is set automatically on FreeBSD, so everything should work concerning that. That was the problem you had.

I must admit, I didn't check lib dependencies once again after the transition to define platform in config.h for GTK bindings, so I will check that on my BSD platforms to see, what is really needed to fix that.

Matthias

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [masu](#) on Mon, 13 Jul 2009 20:46:52 GMT
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Hi Pavel,

for me it works with latest SVN version (1395), FreeBSD 7.2 (7 Stable), GCC 4.2.1.
Both compilation runs that I use (NOGTK & static linking or !NOGTK and dynamic linking) works here.

I think you had the problem I explained in my last post.

Matthias

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [Mindtraveller](#) on Wed, 15 Jul 2009 09:14:02 GMT
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Hi, Matthias!

I believe it is time to update FreeBSD port for U++, because of such a behaviour (FreeBSD <-> BSD). I consider it a good idea too because U++ is stable enough on latest SVNs.

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]
Posted by [masu](#) on Wed, 15 Jul 2009 15:31:46 GMT
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Hi Pavel,

you are right, one could also prepare something like an upp-dev port, but I do not think it is really worth the effort since normally you do not have trouble with updating from SVN and recompile TheIDE with the one installed via ports.

Of course if there is an important change that breaks building TheIDE one could think about

preparing a port (which I would not submit to FreeBSD ports, but only put here in the forum).

On the other hand, this important change in building process was the first I had within ~2 years .

Matthias

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [Mindtraveller](#) on Thu, 07 Jan 2010 19:10:05 GMT

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I'm again experiencing problems linking applications under FreeBSD 7.1. I try to link "All static" version of GTK program and it gives huge amount of linking errors. This is strange due to Shared version with GTK links flawlessly as well as All static version with NOGTK flag.

Can anyone please give me a clue what to do to make static GTK app?

P.S. These are linking errors:

Quote:----- BNFEditor3 (GUI MT BSD FREEBSD MAIN GCC POSIX BSD FREEBSD) (11 / 11)

Linking...

/usr/local/lib/libgtk-x11-2.0.a(gtkadjustment.o)(.text+0x484): In function

`gtk_adjustment_class_intern_init'

:

: undefined reference to `libintl_dgettext'

/usr/local/lib/libgtk-x11-2.0.a(gtkadjustment.o)(.text+0x49a): In function

`gtk_adjustment_class_intern_init'

:

: undefined reference to `libintl_dgettext'

/usr/local/lib/libgtk-x11-2.0.a(gtkadjustment.o)(.text+0x50e): In function

`gtk_adjustment_class_intern_init'

:

: undefined reference to `libintl_dgettext'

/usr/local/lib/libgtk-x11-2.0.a(gtkadjustment.o)(.text+0x524): In function

`gtk_adjustment_class_intern_init'

:

: undefined reference to `libintl_dgettext'

/usr/local/lib/libgtk-x11-2.0.a(gtkadjustment.o)(.text+0x598): In function

`gtk_adjustment_class_intern_init'

:

: undefined reference to `libintl_dgettext'

/usr/local/lib/libgtk-x11-2.0.a(gtkadjustment.o)(.text+0x5ae): more undefined references to `libintl_dgettext'

' follow

/usr/local/lib/libgtk-x11-2.0.a(gtkimmulticontext.o)(.text+0 x1a1): In function

`gtk_im_multicontext_append_me

nuitems':

: undefined reference to `libintl_bindtextdomain'

```
/usr/local/lib/libgtk-x11-2.0.a(gtkimmulticontext.o)(.text+0 x1bd): In function
`gtk_im_multicontext_append_me
nitems':
: undefined reference to `libintl_bind_textdomain_codeset'
/usr/local/lib/libgtk-x11-2.0.a(gtkimmulticontext.o)(.text+0 x1d8): In function
`gtk_im_multicontext_append_me
nitems':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkimmulticontext.o)(.text+0 x24a): In function
`gtk_im_multicontext_append_me
nitems':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkinvisible.o)(.text+0x3a4) : In function
`gtk_invisible_class_intern_init':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkinvisible.o)(.text+0x3ba) : In function
`gtk_invisible_class_intern_init':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtklabel.o)(.text+0x347a): In function `gtk_label_class_intern_init':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtklabel.o)(.text+0x3490): more undefined references to
`libintl_dgettext' fo
llow
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x1726): In function `gettext_initialization':
: undefined reference to `libintl_bindtextdomain'
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x173a): In function `gettext_initialization':
: undefined reference to `libintl_bindtextdomain'
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x174e): In function `gettext_initialization':
: undefined reference to `libintl_bind_textdomain_codeset'
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x1762): In function `gettext_initialization':
: undefined reference to `libintl_bind_textdomain_codeset'
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x1860): In function `gtk_get_option_group':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x1876): In function `gtk_get_option_group':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkmain.o)(.text+0x1c75): In function `post_parse_hook':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkmenu.o)(.text+0x38be): In function `gtk_menu_class_intern_init':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkmenu.o)(.text+0x38d4): In function `gtk_menu_class_intern_init':
: undefined reference to `libintl_dgettext'
/usr/local/lib/libgtk-x11-2.0.a(gtkmenu.o)(.text+0x3920): more undefined references to
`libintl_dgettext' fol
low
...

```

Subject: Re: Huge amount of linking errors [FreeBSD 7.1, GCC 4.3]

Posted by [masu](#) on Thu, 07 Jan 2010 19:39:39 GMT

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Hello Pavel,

I do not see the point to link your app with GTK static library.
Normally these libs are not provided since lots of apps are using them. If you would link statically with GTK you would get a huge app size which IMHO is not desirable.

Matthias
