Subject: Compilation error
Posted by rafiwui on Fri, 04 Aug 2017 10:10:07 GMT
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When I compile the liibrary with g++ 6.3.1 on CentOS 6.9 the compilation stops at a point:
This is the (IMO) important output:

```
g++ -o "ide.out" -Wl,-s -L/lib64   -L"/usr/X11R6/lib" -L"/usr/lib" -Wl,-O,2 -Wl,--gc-sections
-Wl,--start-group  \
            _out/ide/GCCMK-Gcc-Gui-Linux-Main-Posix-Shared/BaseDlg.o \
            ... \
                -lbz2 \
                -lpthread \
                -ldl \
                -lrt \
                -lz \
                -ldl \
                -lfreetype \
                -lfontconfig \
                -lexpat \
                -lgtk-x11-2.0 \
                -lgdk-x11-2.0 \
                -latk-1.0 \
                -lgdk_pixbuf-2.0 \
                -lm \
                -lpangocairo-1.0 \
                -lfontconfig \
                -lXext \
                -lXrender \
                -lXinerama \
                -lXi \
                -lXrandr \
                -lXcursor \
                -lXfixes \
                -lpango-1.0 \
                -lcairo \
                -lX11 \
                -lgobject-2.0 \
                -lgmodule-2.0 \
                -lglib-2.0 \
                -lX11 \
                -lXrender \
                -lXinerama \
                -ldl \
                -lXft \
                -lnotify \
                -lpng -Wl,--end-group
/opt/rh/devtoolset-6/root/usr/libexec/gcc/x86_64-redhat-linux/6.3.1/ld:
```

_out/CtrlCore/GCCMK-Gcc-Gui-Linux-Posix-Shared/CtrlCore.a(GtkApp.o): undefined reference to symbol 'g_thread_init'
//lib64/libgthread-2.0.so.0: error adding symbols: DSO missing from command line
collect2: error: ld returned 1 exit status
gmake[1]: *** [ide.out] Error 1

Any ideas why this undefined reference to symbol 'g_thread_init' appears? Or did anyone face a similiar error?
EDIT: It seems like the real problem is //lib64/libgthread-2.0.so.0: error adding symbols: DSO missing from command line
Tested with: 11217M, 11287, 11295, 11300
And there weren't any warnings in the rest of the building process.

I added the complete output that is generated if I run sudo make again as a file.

File Attachments

1) upp_11287_make_error.txt, downloaded 192 times

Subject: Re: Compilation error
Posted by rafiwui on Tue, 08 Aug 2017 10:58:39 GMT
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Googling g_thread_init, I found that it is deprecated. So probably that is the problem and I am wondering if anyone else has the same problem?

EDIT: According to my solution this was not the real problem.

Subject: Re: Compilation error
Posted by rafiwui on Wed, 23 Aug 2017 10:43:10 GMT
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I finally found the problem or at least I did sth and now it compiled all the way through.

It would be nice if one of the admins of U++ could check this solution to solve this problem or if you could tell me what I did wrong if this is no problem of U++.

I did this with the nightly build upp-x11-src-11300 on a CentOS 6.9 machine.
So here is what I did if someone is facing a similiar error:
EDIT: Check out the ways more easier solution in the next reply.

1. Run make until you see this line (the actual compilation will start after this):

DOMAKE INFO: Found make. Compiling...

Use Ctrl+C to abort the compilation.

2. Open the domake file in an editor and remove the following lines:

```
log_debug_info "Configuring" uppsrc/*Makefile.in *.bm.in "with pkg-config"

if which pkg-config
then

  if [[ "$Flags" = *"NOGTK"* ]]
  then
    requires_libraries="x11 libnotify freetype2"
  else
    requires_libraries="gtk+-2.0 x11 libnotify freetype2"

  fi

  library_list=""
  for i in $requires_libraries
  do
    if pkg-config --exists $i
    then
      library_list="$library_list $i"
      log_debug_info "pkg-config: Found library $i"
    else
      log_debug_warning "pkg-config: '$i' not found in $(pkg-config --variable pc_path pkg-config).
Do you need to install $i development package?"
    fi
  done

  for i in uppsrc/*Makefile.in
  do
    sed -e "s@-I((INCLUDES))@`pkg-config --cflags-only-I $library_list`@g" -e
"s@-L\"((LIBRARIES))\"@`pkg-config --libs-only-L $library_list`@g" "$i" > "${i%.in}"
  done

  for i in *.bm.in
  do
    sed -e "s@((INCLUDES))@`pkg-config --cflags-only-I $library_list|sed -e s/-I//g -e \"s/ /;/g\"`@g"
-e "s@((LIBRARIES))@`pkg-config --libs-only-L $library_list|sed -e s/-L//g -e \"s/ /;/g\"`@g" "$i" >
"${i%.in}"
  done

else
  log_debug_warning "Can't find pkg-config in PATH. Will do configuration without it. Compilation
will probably fail"
  log_debug_warning "If compilation fail because of missing include, please install pkg-config
before reporting"
```

```
  for i in uppsrc/*Makefile.in
  do
    sed -e "s@-I((INCLUDES))@@g" -e 's@-L"((LIBRARIES))"@@g' "$i" > "${i%.in}"
  done

  for i in *.bm.in
  do
    sed -e "s@((INCLUDES));@@g" -e "s@((LIBRARIES));@@g" "$i" > "${i%.in}"
  done

fi
```

This won't corrupt the compilation because the pkg-config is already done if you did the first step. You can also use the attached file instead (the pkg-config part is commented out there)

3. Open uppsrc/Makefile and uppsrc/Makefile.in and add this line:

-lgthread-2.0

here:

```
# ...
$(OutFile): build_info  \
 $(OutDir_ide)BaseDlg.o \
 $(OutDir_ide)SelectPkg.o \
 $(OutDir_ide)UppWspc.o \
 $(OutDir_ide)NewPackageFile.o \
 $(OutDir_ide)UppDlg.o \
 $(OutDir_ide)Template.o \
 $(OutDir_ide)Console.o \
 $(OutDir_ide)FindFile.o \
 $(OutDir_ide)FindInFiles.o \
 $(OutDir_ide)Config.o \
 $(OutDir_ide)ide.o \
 $(OutDir_ide)idefile.o \
 $(OutDir_ide)EditorTabBar.o \
 $(OutDir_ide)Bottom.o \
 $(OutDir_ide)t.o \
 $(OutDir_ide)Cpp.o \
 $(OutDir_ide)Assist.o \
 $(OutDir_ide)DCopy.o \
 $(OutDir_ide)ContextGoto.o \
 $(OutDir_ide)GoToLine.o \
 $(OutDir_ide)Swaps.o \
 $(OutDir_ide)ParamInfo.o \
 $(OutDir_ide)Navigator.o \
 $(OutDir_ide)Annotations.o \
```

```
$(OutDir_ide)Virtuals.o \
$(OutDir_ide)Thisbacks.o \
$(OutDir_ide)Jump.o \
$(OutDir_ide)Setup.o \
$(OutDir_ide)Custom.o \
$(OutDir_ide)Print.o \
$(OutDir_ide)Insert.o \
$(OutDir_ide)idetool.o \
$(OutDir_ide)Install.o \
$(OutDir_ide)Android.o \
$(OutDir_ide)idebar.o \
$(OutDir_ide)idewin.o \
$(OutDir_ide)About.o \
$(OutDir_ide)Help.o \
$(OutDir_ide)Macro.o \
$(OutDir_ide)OnlineSearch.o \
$(OutDir_ide)Errors.o \
$(OutDir_ide)Calc.o \
$(OutDir_ide)FormatCode.o \
$(OutDir_ide)Abbr.o \
$(OutDir_ide)Qtf.o \
$(OutDir_ide)Xml.o \
$(OutDir_ide)Json.o \
$(OutDir_ide)MacroManager.o \
$(OutDir_ide)Update.o \
$(OutDir_ide)MethodsCtrls.o \
$(OutDir_ide)Methods.o \
$(OutDir_ide)AutoSetup.o \
$(OutDir_ide)InstantSetup.o \
$(OutDir_ide)OutputMode.o \
$(OutDir_ide)Build.o \
$(OutDir_ide)Debug.o \
$(OutDir_ide)Valgrind.o \
$(OutDir_ide)Export.o \
$(OutDir_ide_Common)Common.a \
$(OutDir_ide_Core)Core.a \
$(OutDir_ide_LayDes)LayDes.a \
$(OutDir_ide_IconDes)IconDes.a \
$(OutDir_ide_Builders)Builders.a \
$(OutDir_ide_Debuggers)Debuggers.a \
$(OutDir_ide_Browser)Browser.a \
$(OutDir_CodeEditor)CodeEditor.a \
$(OutDir_CtrlLib)CtrlLib.a \
$(OutDir_plugin_bz2)bz2.a \
$(OutDir_HexView)HexView.a \
$(OutDir_art_BlueBar)BlueBar.a \
$(OutDir_plugin_astyle)astyle.a \
$(OutDir_usvn)usvn.a \
```

```
$(OutDir_TextDiffCtrl)TextDiffCtrl.a \
$(OutDir_TabBar)TabBar.a \
$(OutDir_ide_Designers)Designers.a \
$(OutDir_ide_Android)Android.a \
$(OutDir_ide_Java)Java.a \
$(OutDir_ide_MacroManager)MacroManager.a \
$(OutDir_ide_SrcUpdater)SrcUpdater.a \
$(OutDir_Esc)Esc.a \
$(OutDir_plugin_lzma)lzma.a \
$(OutDir_plugin_lz4)lz4.a \
$(OutDir_plugin_zstd)zstd.a \
$(OutDir_Core)Core.a \
$(OutDir_RichEdit)RichEdit.a \
$(OutDir_IconDes)IconDes.a \
$(OutDir_plugin_gif)gif.o \
$(OutDir_plugin_gif)gif.a \
$(OutDir_plugin_jpg)jpgreg.o \
$(OutDir_plugin_jpg)jpg.a \
$(OutDir_Painter)PainterInit.o \
$(OutDir_Painter)Painter.a \
$(OutDir_Draw)Draw.a \
$(OutDir_CppBase)CppBase.a \
$(OutDir_PdfDraw)PdfInit.o \
$(OutDir_PdfDraw)PdfDraw.a \
$(OutDir_plugin_pcre)pcre.a \
$(OutDir_CtrlCore)CtrlCore.a \
$(OutDir_plugin_bmp)BmpReg.o \
$(OutDir_plugin_bmp)bmp.a \
$(OutDir_RichText)RichText.a \
$(OutDir_plugin_png)pngreg.o \
$(OutDir_plugin_png)png.a
$(LINKER) -o "$(OutFile)" -Wl,-s $(LIBPATH) -Wl,-O,2 $(LDFLAGS) -Wl,--start-group  \
 $(OutDir_ide)BaseDlg.o \
 $(OutDir_ide)SelectPkg.o \
 $(OutDir_ide)UppWspc.o \
 $(OutDir_ide)NewPackageFile.o \
 $(OutDir_ide)UppDlg.o \
 $(OutDir_ide)Template.o \
 $(OutDir_ide)Console.o \
 $(OutDir_ide)FindFile.o \
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 $(OutDir_ide)Config.o \
 $(OutDir_ide)ide.o \
 $(OutDir_ide)idefile.o \
 $(OutDir_ide)EditorTabBar.o \
 $(OutDir_ide)Bottom.o \
 $(OutDir_ide)t.o \
 $(OutDir_ide)Cpp.o \
```

```
$(OutDir_ide)Assist.o \
$(OutDir_ide)DCopy.o \
$(OutDir_ide)ContextGoto.o \
$(OutDir_ide)GoToLine.o \
$(OutDir_ide)Swaps.o \
$(OutDir_ide)ParamInfo.o \
$(OutDir_ide)Navigator.o \
$(OutDir_ide)Annotations.o \
$(OutDir_ide)Virtuals.o \
$(OutDir_ide)Thisbacks.o \
$(OutDir_ide)Jump.o \
$(OutDir_ide)Setup.o \
$(OutDir_ide)Custom.o \
$(OutDir_ide)Print.o \
$(OutDir_ide)Insert.o \
$(OutDir_ide)idetool.o \
$(OutDir_ide)Install.o \
$(OutDir_ide)Android.o \
$(OutDir_ide)idebar.o \
$(OutDir_ide)idewin.o \
$(OutDir_ide)About.o \
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$(OutDir_ide)OnlineSearch.o \
$(OutDir_ide)Errors.o \
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$(OutDir_ide)FormatCode.o \
$(OutDir_ide)Abbr.o \
$(OutDir_ide)Qtf.o \
$(OutDir_ide)Xml.o \
$(OutDir_ide)Json.o \
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$(OutDir_ide)Update.o \
$(OutDir_ide)MethodsCtrls.o \
$(OutDir_ide)Methods.o \
$(OutDir_ide)AutoSetup.o \
$(OutDir_ide)InstantSetup.o \
$(OutDir_ide)OutputMode.o \
$(OutDir_ide)Build.o \
$(OutDir_ide)Debug.o \
$(OutDir_ide)Valgrind.o \
$(OutDir_ide)Export.o \
 $(OutDir_ide_Common)Common.a \
 $(OutDir_ide_Core)Core.a \
 $(OutDir_ide_LayDes)LayDes.a \
 $(OutDir_ide_IconDes)IconDes.a \
 $(OutDir_ide_Builders)Builders.a \
 $(OutDir_ide_Debuggers)Debuggers.a \
```

```
 $(OutDir_ide_Browser)Browser.a \
 $(OutDir_CodeEditor)CodeEditor.a \
 $(OutDir_CtrlLib)CtrlLib.a \
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 $(OutDir_HexView)HexView.a \
 $(OutDir_art_BlueBar)BlueBar.a \
 $(OutDir_plugin_astyle)astyle.a \
 $(OutDir_usvn)usvn.a \
 $(OutDir_TextDiffCtrl)TextDiffCtrl.a \
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 $(OutDir_ide_Java)Java.a \
 $(OutDir_ide_MacroManager)MacroManager.a \
 $(OutDir_ide_SrcUpdater)SrcUpdater.a \
 $(OutDir_Esc)Esc.a \
 $(OutDir_plugin_lzma)lzma.a \
 $(OutDir_plugin_lz4)lz4.a \
 $(OutDir_plugin_zstd)zstd.a \
 $(OutDir_Core)Core.a \
 $(OutDir_RichEdit)RichEdit.a \
 $(OutDir_IconDes)IconDes.a \
$(OutDir_plugin_gif)gif.o \
 $(OutDir_plugin_gif)gif.a \
$(OutDir_plugin_jpg)jpgreg.o \
 $(OutDir_plugin_jpg)jpg.a \
$(OutDir_Painter)PainterInit.o \
 $(OutDir_Painter)Painter.a \
 $(OutDir_Draw)Draw.a \
 $(OutDir_CppBase)CppBase.a \
$(OutDir_PdfDraw)PdfInit.o \
 $(OutDir_PdfDraw)PdfDraw.a \
 $(OutDir_plugin_pcre)pcre.a \
 $(OutDir_CtrlCore)CtrlCore.a \
$(OutDir_plugin_bmp)BmpReg.o \
 $(OutDir_plugin_bmp)bmp.a \
 $(OutDir_RichText)RichText.a \
$(OutDir_plugin_png)pngreg.o \
 $(OutDir_plugin_png)png.a \
 -lbz2 \
 -lpthread \
 -ldl \
 -lrt \
 -lz \
 -ldl \
 -lfreetype \
 -lfontconfig \
 -lexpat \
```

```
  -lgtk-x11-2.0 \
  -lgdk-x11-2.0 \
  -latk-1.0 \
  -lgdk_pixbuf-2.0 \
  -lm \
  -lpangocairo-1.0 \
  -lfontconfig \
  -lXext \
  -lXrender \
  -lXinerama \
  -lXi \
  -lXrandr \
  -lXcursor \
  -lXfixes \
  -lpango-1.0 \
  -lcairo \
  -lX11 \
  -lgobject-2.0 \
  -lgmodule-2.0 \
  -lglib-2.0 \
  -lX11 \
  -lXrender \
  -lXinerama \
  -ldl \
  -lXft \
  -lnotify \
  -lpng \                    # Here is the change
  -lgthread-2.0 -Wl,--end-group  # with the new part here

$(OutDir_ide):
 mkdir -p $(OutDir_ide)
# ...
```

I will not attach these files because they are partially generated by the pkg-config.

4. Run make again and it should compile without a problem.

File Attachments

1) domake, downloaded 190 times

Subject: Re: Compilation error
Posted by amrein on Thu, 24 Aug 2017 06:25:15 GMT
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Note: You can run 'make LDFLAGS=-lgthread-2.0' to force the use of gthread-2.0 at link time. It will work without having to edit files or use Ctrl-c.

Here what I found : U++ uses 'g_thread_init(NULL);' in uppsrc/CtrlCore/GtkApp.cpp (line 65). g_thread_init(); and g_thread_supported(); are deprecated, according to https://developer.gnome.org/glib/stable/glib-Deprecated-Thread-APIs. html#g-thread-init

There's already a work around in the source code:

```
#ifdef _MULTITHREADED
#if !GLIB_CHECK_VERSION(2, 32, 0)
   if(!g_thread_supported())
      g_thread_init(NULL);
#endif
      gdk_threads_set_lock_functions(EnterGuiMutex, LeaveGuiMutex);
      gdk_threads_init();
      EnterGuiMutex();
#endif
```

So, my question is, why does it still compile those lines if your library is greater than 2.32.0?

Subject: Re: Compilation error
Posted by rafiwui on Thu, 24 Aug 2017 06:37:22 GMT
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Intersting. My glib is version 2.28.8 according to yum.

```
glib2.x86_64          2.28.8-9.el6     @anaconda-CentOS-201703281317.x86_64/6.9
glib2-devel.x86_64    2.28.8-9.el6     @base
```

Does that mean that the source code should be updated to check on older versions as well?

Subject: Re: Compilation error
Posted by amrein on Thu, 24 Aug 2017 07:11:19 GMT
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It already does that. If it's an older version, U++ uses g_thread_supported() and g_thread_init().

In your case, g_thread_init is not part of /lib64/libgthread-2.0.so.0 for an unknown reason.