
Subject: Linking error on OpenBSD

Posted by [gh_origin](#) on Sat, 25 Jul 2020 13:24:08 GMT

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Summary:

ld: error: unable to find library -ldl

ld: error: unable to find library -lrt

More detail:

```
c++ -o "/theide" -Wl,-s -Wl,-O,2 -Wl,--gc-sections -Wl,--start-group \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/BaseDlg.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/SelectPkg.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/UppWspc.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/NewPackageFile.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Organizer.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Template.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Console.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/FindFile.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/FindInFiles.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Config.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/ide.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/idefile.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/EditorTabBar.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Bottom.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/t.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Cpp.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Assist.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/DCopy.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/ContextGoto.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/GoToLine.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Swaps.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/ParamInfo.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Navigator.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Annotations.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Virtuals.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Thisbacks.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Log.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Jump.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/MainConfig.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Setup.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Custom.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Print.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Insert.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/ideTool.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Install.o \  
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Android.o \  

```

.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/idebar.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/idewin.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/main.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/CommandLineHandler.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/About.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Macro.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Help.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/SlideShow.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/OnlineSearch.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Errors.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Calc.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/FormatCode.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Abbr.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Qtf.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Xml.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Json.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/MacroManager.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/SetupSVN.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Upgrade.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/MethodsCtrls.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Methods.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/AutoSetup.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/InstantSetup.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/OutputMode.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Build.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Debug.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Valgrind.o \
.cache/upp.out/ide/GCC-Gcc-Gui-Linux-Main-Posix-Shared/Export.o \
.cache/upp.out/ide/Common/GCC-Gcc-Gui-Linux-Posix-Shared/Common.a \
.cache/upp.out/ide/Core/GCC-Gcc-Gui-Linux-Posix-Shared/Core.a \
.cache/upp.out/ide/LayDes/GCC-Gcc-Gui-Linux-Posix-Shared/LayDes.a \
.cache/upp.out/ide/IconDes/GCC-Gcc-Gui-Linux-Posix-Shared/IconDes.a \
.cache/upp.out/ide/Builders/GCC-Gcc-Gui-Linux-Posix-Shared/Builders.a \
.cache/upp.out/ide/Debuggers/GCC-Gcc-Gui-Linux-Posix-Shared/Debuggers.a \
.cache/upp.out/ide/Browser/GCC-Gcc-Gui-Linux-Posix-Shared/Browser.a \
.cache/upp.out/CodeEditor/GCC-Gcc-Gui-Linux-Posix-Shared/CodeEditor.a \
.cache/upp.out/CtrlLib/GCC-Gcc-Gui-Linux-Posix-Shared/CtrlLib.a \
.cache/upp.out/plugin/bz2/GCC-Gcc-Gui-Linux-Posix-Shared/bz2.a \
.cache/upp.out/HexView/GCC-Gcc-Gui-Linux-Posix-Shared/HexView.a \
.cache/upp.out/plugin/astyle/GCC-Gcc-Gui-Linux-Posix-Shared/astyle.a \
.cache/upp.out/TextDiffCtrl/GCC-Gcc-Gui-Linux-Posix-Shared/TextDiffCtrl.a \
.cache/upp.out/TabBar/GCC-Gcc-Gui-Linux-Posix-Shared/TabBar.a \
.cache/upp.out/ide/Designers/GCC-Gcc-Gui-Linux-Posix-Shared/Designers.a \
.cache/upp.out/ide/Android/GCC-Gcc-Gui-Linux-Posix-Shared/Android.a \
.cache/upp.out/ide/Java/GCC-Gcc-Gui-Linux-Posix-Shared/Java.a \
.cache/upp.out/ide/MacroManager/GCC-Gcc-Gui-Linux-Posix-Shared/MacroManager.a \
.cache/upp.out/urepo/GCC-Gcc-Gui-Linux-Posix-Shared/urepo.a \
.cache/upp.out/Report/GCC-Gcc-Gui-Linux-Posix-Shared/Report.a \

```

.cache/upp.out/Esc/GCC-Gcc-Gui-Linux-Posix-Shared/Esc.a \
.cache/upp.out/Core/GCC-Gcc-Gui-Linux-Posix-Shared/Core.a \
.cache/upp.out/plugin/lzma/GCC-Gcc-Gui-Linux-Posix-Shared/lzma.a \
.cache/upp.out/plugin/lz4/GCC-Gcc-Gui-Linux-Posix-Shared/lz4.a \
.cache/upp.out/plugin/zstd/GCC-Gcc-Gui-Linux-Posix-Shared/zstd.a \
.cache/upp.out/RichEdit/GCC-Gcc-Gui-Linux-Posix-Shared/RichEdit.a \
.cache/upp.out/IconDes/GCC-Gcc-Gui-Linux-Posix-Shared/IconDes.a \
.cache/upp.out/CppBase/GCC-Gcc-Gui-Linux-Posix-Shared/CppBase.a \
.cache/upp.out/plugin/gif/GCC-Gcc-Gui-Linux-Posix-Shared/gif.o \
.cache/upp.out/plugin/gif/GCC-Gcc-Gui-Linux-Posix-Shared/gif.a \
.cache/upp.out/plugin/jpg/GCC-Gcc-Gui-Linux-Posix-Shared/jpgreg.o \
.cache/upp.out/plugin/jpg/GCC-Gcc-Gui-Linux-Posix-Shared/jpg.a \
.cache/upp.out/Painter/GCC-Gcc-Gui-Linux-Posix-Shared/PainterInit.o \
.cache/upp.out/Painter/GCC-Gcc-Gui-Linux-Posix-Shared/Painter.a \
.cache/upp.out/Draw/GCC-Gcc-Gui-Linux-Posix-Shared/Draw.a \
.cache/upp.out/PdfDraw/GCC-Gcc-Gui-Linux-Posix-Shared/PdfInit.o \
.cache/upp.out/PdfDraw/GCC-Gcc-Gui-Linux-Posix-Shared/PdfDraw.a \
.cache/upp.out/plugin/pcre/GCC-Gcc-Gui-Linux-Posix-Shared/pcre.a \
.cache/upp.out/CtrlCore/GCC-Gcc-Gui-Linux-Posix-Shared/CtrlCore.a \
.cache/upp.out/plugin/bmp/GCC-Gcc-Gui-Linux-Posix-Shared/BmpReg.o \
.cache/upp.out/plugin/bmp/GCC-Gcc-Gui-Linux-Posix-Shared/bmp.a \
.cache/upp.out/RichText/GCC-Gcc-Gui-Linux-Posix-Shared/RichText.a \
.cache/upp.out/plugin/png/GCC-Gcc-Gui-Linux-Posix-Shared/pngreg.o \
.cache/upp.out/plugin/png/GCC-Gcc-Gui-Linux-Posix-Shared/png.a \
`pkg-config --libs freetype2` \
`pkg-config --libs x11` \
`pkg-config --libs fontconfig` \
`pkg-config --libs xcb` \
`pkg-config --libs expat` \
`pkg-config --libs xinerama` \
`pkg-config --libs xrender` \
`pkg-config --libs xft` \
`pkg-config --libs xdmcp` \
`pkg-config --libs xext` \
`pkg-config --libs gtk+-3.0` \
`pkg-config --libs libnotify` \
`pkg-config --libs libpng` \
-lbz2 \
-lpthread \
-ldl \
-lrt \
-lz -Wl,--end-group
ld: error: unable to find library -ldl
ld: error: unable to find library -lrt
c++: error: linker command failed with exit code 1 (use -v to see invocation)
gmake: *** [Makefile:256: theide] Error 1

```

Subject: Re: Linking error on OpenBSD
Posted by [Klugier](#) on Sat, 25 Jul 2020 18:12:18 GMT
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Hello,

It seems that there is a bug in makefile generation algorithm. It doesn't detect operating system (assumes POSIX=LINUX) and ignore our internal settings.

This issue can be only fixed by Mirek. Right now you could manipulate makefile and replace "-ldl -lrt" with "-execinfo". Here is our library matrix for operating systems for Core package:

After building TheIDE it should run smoothly on OpenBSD. However, please build by replacing libraries and let us know what is the status. Thanks!

Sincerely,
Klugier

File Attachments

1) [OpenBSD.png](#), downloaded 676 times

Package organizer

ide

ide/Android

ide/Browser

ide/Builders

ide/Common

ide/Core

ide/Debuggers

ide/Designers

ide/IconDes

ide/Java

ide/LayDes

MacroManager

CodeEditor

Core

CppBase

CtrlCore

CtrlLib

Draw

Esc

HexView

IconDes

Painter

PdfDraw

Report

RichEdit

RichText

TabBar

TextDiffCtrl

plugin/astyle

plugin/bmp

plugin/bz2

plugin/gif

plugin/jpg

plugin/lz4

plugin/lzma

plugin/ndisasm

plugin/pcre

plugin/png

plugin/z

plugin/zstd

urepo

Core.h

config.h

Defs.h

Ops.h

Fn.h

Cpu.cpp

Mem.h

C Mem.cpp

SIMD_SSE2.h

C SIMD.cpp

Atomic.h

Mt.h

C Mt.cpp

Heap.h

HeapImp.h

C heaputil.cpp

C hheap.cpp

C sheap.cpp

C lheap.cpp

C heap.cpp

C heapdbg.cpp

String.h

AString.hpp

C StringFind.cpp

Description

Non-GUI code. Streams, NTL containers, concrete types, Value, XML, C parsing e

Accepts

USEMALLOC

when

WIN32 | NOSO

when

LINUX !ANDROID

BSD !OSX !OPENBSD

SOLARIS

!WIN32 & !NOSO

OSX

ANDROID

WIN32

OPENBSD

when

ANDROID

when

GCC POSIX STACKTRACE

Uses

plugin\z

Libraries

pthread dl rt

pthread rt execinfo

posix4 dl

z

pthread

atomic

kernel32 user32 ole32 o

pthread execinfo

Static libraries

cpufeatures

Link options

-rdynamic

☐ Includeable group

☐ Precompile header

☐ Do not use precompiled header

☐ Ex

Subject: Re: Linking error on OpenBSD

Posted by [mirek](#) on Tue, 28 Jul 2020 06:42:03 GMT

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IMO, it is not a bug, "it is a feature". Simply put, it generates makefile for the given set of flags. As

it is generated in linux, it creates Linux makefile...

This will be problematic (but not impossible) to fix.

Subject: Re: Linking error on OpenBSD

Posted by [mirek](#) on Tue, 28 Jul 2020 07:18:42 GMT

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I think the simple solution here is to generate separate makefiles for each host. Like Makefile.linux etc... Then have master makefile that invokes it based on system flags.

A bit more sophisticated solution would use some form of diff to "fix" one common makefile...

Subject: Re: Linking error on OpenBSD

Posted by [mirek](#) on Mon, 03 Aug 2020 14:57:18 GMT

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OK, I believe we should do this:

- fix U++ itself to correctly work (I mean, when you are using theide / umk to compile).
 - in addition to Makefile, provide Makefile.in and configure. Makefile will be configured for Linux. Makefile.in will be a copy. configure will detect platform and patch Makefile.in for it. I believe it will be possible to create "universal" patch that just replaces a couple of strings in Makefile - replace LINUX with correct target, change library files.
 - add this to ./install as well...
-