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.

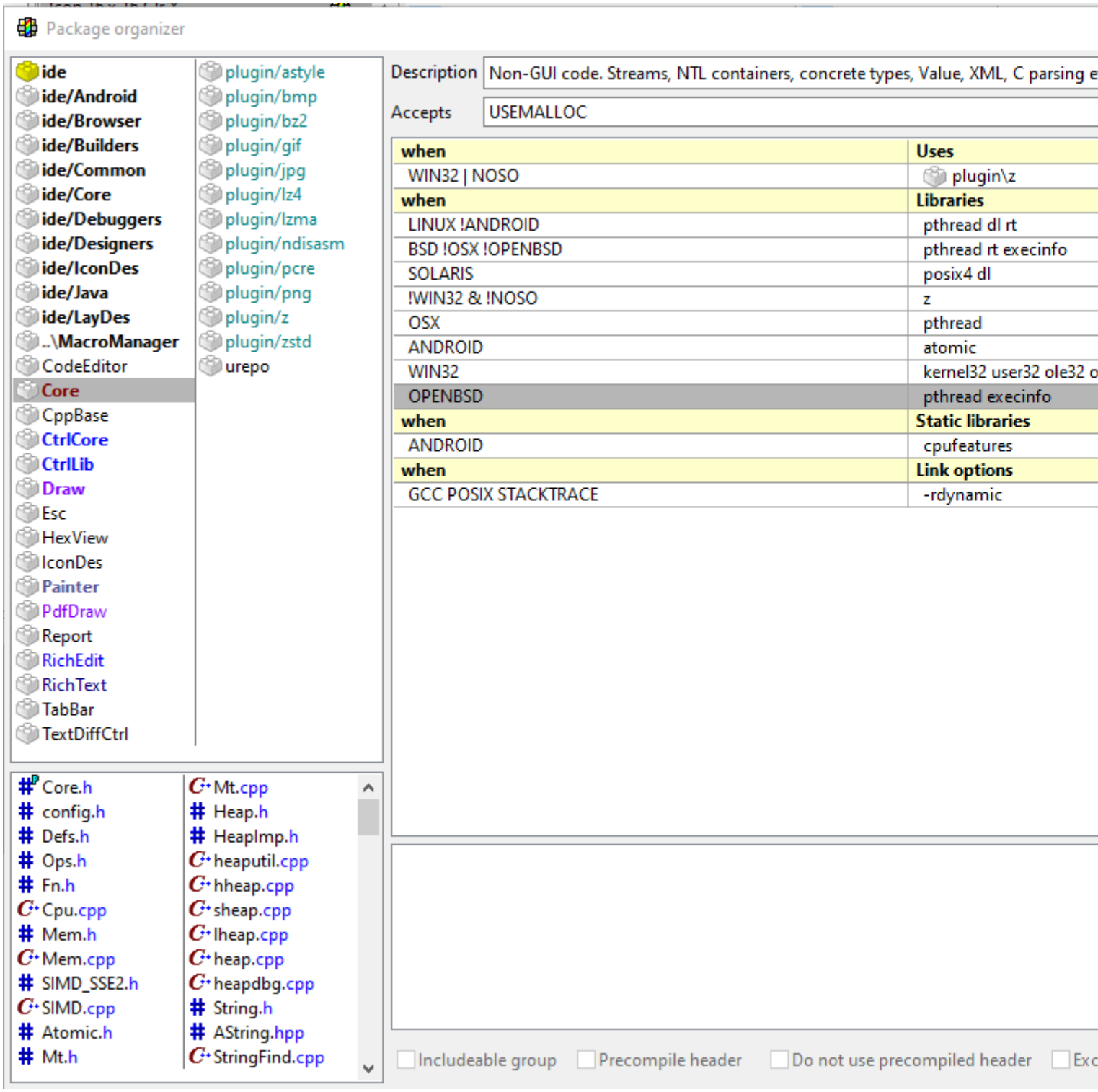
This issue can be only fixed by Mirek. Right know you could manipulate makefile and replace "-ldl -lrt" with "-execinfo". Here is our library matrix for operating systems for Core package:

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 825 times



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 pro 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...
