Subject: Build debian package on Debian/kFreeBSD
Posted by vicxtor on Fri, 08 Nov 2013 17:48:56 GMT
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Hello,

My OS is Debian/kFreeBSD 7.0.2.

Source packages are downloaded from http://upp.invothink.com/release/pool/main/u/upp/

When I build upp_5485-1~wheezy0 I got some error messages.

Using flags GUI GCC DEBUG DEBUG_FULL GNU/KFREEBSD POSIX

uppsrc/Core/config.h:45:6: error: #error Unknown OS

Could you help me to fix this issue ?

Thanks.

Subject: Re: Build debian package on Debian/kFreeBSD
Posted by vicxtor on Sat, 09 Nov 2013 08:56:48 GMT
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Hi all,

I chang some compile config,

1. upp_5485.orig.tar.gz

upp-x11-src-5485/uppsrc/Core/config.h L44 ~ L46

from

```
#else
	#error Unknown OS
#endif
```

to

```
#else
	#define PLATFORM_LINUX 1
#endif
```

2.upp_5485-1~wheezy0.debian.tar.gz

debian/patches/debian-changes-5485-1~sid0

L402
from
@@ -0,0 +1,378 @@
to
@@ -0,0 +1,382 @@

L466 add 4 lines
+INCPATHS+= /usr/lib/i386-kfreebsd-gnu/glib-2.0/include
+INCPATHS+= /usr/lib/x86_64-kfreebsd-gnu/glib-2.0/include
+INCPATHS+= /usr/lib/i386-kfreebsd-gnu/gtk-2.0/include
+INCPATHS+= /usr/lib/x86_64-kfreebsd-gnu/gtk-2.0/include

3.
dpkg-source --no-check -x upp_5485-1~wheezy0.dsc
cd upp-5485
dpkg-buildpackage -rfakeboot -b

all files compiled successfully but have link errors

Linking /home/fenix/Downloads/upp-5485/ide
 _out/Draw/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Draw.a (FontFc.cpp.o): In
function `Upp::sInitFt()':
/home/fenix/Downloads/upp-5485/uppsrc/Draw/FontFc.cpp:24: undefined reference to
`FT_Init_FreeType'
 _out/Draw/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Draw.a (FontFc.cpp.o): In
function `Upp::CreateFcPattern(Upp::Font)':
 /home/fenix/Downloads/up_out/CtrlCore/DEBUG.DEBUG_FULL.GCC.G
NU/KFREEBSD.GUI.POSIX/CtrlCore.a(DrawX11.cpp.o): In function `Upp::InitX11Draw(char
const*)':
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 37: undefined reference to
`gtk_init'
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 38: undefined reference to
`gtk_window_new'
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 39: undefined reference to
`gtk_widget_get_display'
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 40: undefined reference to
`gdk_x11_display_get_xdisplay'
p-5485/uppsrc/Draw/FontFc.cpp:33: undefined reference to `FcPatternCreate'
/home/fenix/Downloads/upp-5485/uppsrc/Draw/FontFc.cpp:34: undefined reference to
`FcPatternAddString'
/home/fenix/Downloads/upp-5485/uppsrc/Draw/FontFc.cpp:35: undefined reference to
`FcPatternAddInteger'

 _out/CtrlCore/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Ct
rlCore.a(DrawTextX11.cpp.o): In function `Upp::GetXftFont(Upp::Font, int)':

/home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawTextX11.c pp:96: undefined reference to `XftFontClose'
_out/CtrlCore/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/CtrlCore.a(DrawTextX11.cpp.o): In function `Upp::XftGetFontInfoSys(Upp::Font)':
/home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawTextX11.c pp:124: undefined reference to `FcPatternGetString'
_out/CtrlCore/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/CtrlCore.a(DrawTextX11.cpp.o): In function `Upp::XftGetGlyphInfoSys(Upp::Font, int)':
/home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawTextX11.c pp:135: undefined reference to `XftTextExtents16'

many similar messages like above.
libs are in /usr/lib/x86_64-kfreebsd-gnu

Do you know how to fix these issues ?

Thanks.

Subject: Re: Build debian package on Debian/kFreeBSD
Posted by dolik.rce on Sun, 10 Nov 2013 17:00:31 GMT
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Hi vicxtor

First of all, welcome to the forum

Second, congratulations on being (probably) the first user ever to try U++ on Debian/kfreebsd

Starting with the source packages as you did was a good idea. The problem is, that Debian/kfreebsd is somewhat on the edge of two platforms. Both Linux and FreeBSD are supported, but their combination as it is in Debian/kfreebsd might be little tricky for the configuration.

vicxtor wrote on Sat, 09 November 2013 09:56Hi all,

I chang some compile config,

1. upp_5485.orig.tar.gz

upp-x11-src-5485/uppsrc/Core/config.h L44 ~ L46

from

```
#else
	#error Unknown OS
#endif
```

to

#else
	#define PLATFORM_LINUX 1
#endif
As a quick fix it is ok, but we should fix it in proper way Something like this should work: #elif __FreeBSD_kernel__ && __GLIBC__
  #define PLATFORM_LINUX 1
 #else
  #error Unknown OS
 #endif

vicxtor wrote on Sat, 09 November 2013 09:562.upp_5485-1~wheezy0.debian.tar.gz

debian/patches/debian-changes-5485-1~sid0

L402
from
@@ -0,0 +1,378 @@
to
@@ -0,0 +1,382 @@

L466 add 4 lines
+INCPATHS+= /usr/lib/i386-kfreebsd-gnu/glib-2.0/include
+INCPATHS+= /usr/lib/x86_64-kfreebsd-gnu/glib-2.0/include
+INCPATHS+= /usr/lib/i386-kfreebsd-gnu/gtk-2.0/include
+INCPATHS+= /usr/lib/x86_64-kfreebsd-gnu/gtk-2.0/include
This seems ok and should work as expected.

vicxtor wrote on Sat, 09 November 2013 09:563.
dpkg-source --no-check -x upp_5485-1~wheezy0.dsc
cd upp-5485
dpkg-buildpackage -rfakeboot -b

all files compiled successfully but have link errors

Linking /home/fenix/Downloads/upp-5485/ide
 _out/Draw/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Draw.a (FontFc.cpp.o):
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 /home/fenix/Downloads/up_out/CtrlCore/DEBUG.DEBUG_FULL.GCC.G
NU/KFREEBSD.GUI.POSIX/CtrlCore.a(DrawX11.cpp.o): In function `Upp::InitX11Draw(char
const*)':
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 37: undefined reference to

`gtk_init'
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 38: undefined reference to `gtk_window_new'
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 39: undefined reference to `gtk_widget_get_display'
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawX11.cpp:2 40: undefined reference to `gdk_x11_display_get_xdisplay'
p-5485/uppsrc/Draw/FontFc.cpp:33: undefined reference to `FcPatternCreate'
/home/fenix/Downloads/upp-5485/uppsrc/Draw/FontFc.cpp:34: undefined reference to `FcPatternAddString'
/home/fenix/Downloads/upp-5485/uppsrc/Draw/FontFc.cpp:35: undefined reference to `FcPatternAddInteger'

 _out/CtrlCore/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Ct
rlCore.a(DrawTextX11.cpp.o): In function `Upp::GetXftFont(Upp::Font, int)':
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawTextX11.c pp:96: undefined reference to `XftFontClose'
 _out/CtrlCore/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Ct
rlCore.a(DrawTextX11.cpp.o): In function `Upp::XftGetFontInfoSys(Upp::Font)':
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawTextX11.c pp:124: undefined reference to `FcPatternGetString'
 _out/CtrlCore/DEBUG.DEBUG_FULL.GCC.GNU/KFREEBSD.GUI.POSIX/Ct
rlCore.a(DrawTextX11.cpp.o): In function `Upp::XftGetGlyphInfoSys(Upp::Font, int)':
 /home/fenix/Downloads/upp-5485/uppsrc/CtrlCore/DrawTextX11.c pp:135: undefined reference to `XftTextExtents16'

many similar messages like above.
libs are in /usr/lib/x86_64-kfreebsd-gnu

Do you know how to fix these issues ?

This is probably related to fontconfig. I'm not sure what exactly might be the problem, but I'd suggest to try compiling theide without it. There is actually already package that does this. It is called theide-nogtk, but the dpkg-buildpackage probably fails before it gets so far. Can you try to remove sections of debian/control that correspond to packages theide and theide-dbg? The rest might compile just fine...

Also, the flags detected by the makefile are not quite correct. Not sure if that makes some difference, but it might. You can fix them by adding PLATFORM=LINUX to the compiler lines in makefile:ide:
 sed -i -e 's/IDE_VERSION[\t]*"\([0-9]*\)[^"]*"/IDE_VERSION   "\1-'$(SERIES)-$(ARCH)"'/' $(CURDIR)/uppsrc/ide/version.h
 $(MAKE) -f mkfile JOBS=$(JOBS) PKG=ide "NESTS=uppsrc" $(OPTS) "FLAGS=GUI GCC DEBUG DEBUG_FULL" TARGET=`pwd`/$@ PLATFORM=LINUX

ide-nogtk:
 sed -i -e 's/IDE_VERSION[\t]*"\([0-9]*\)[^"]*"/IDE_VERSION   "\1-'$(SERIES)-$(ARCH)'-nogtk"/' $(CURDIR)/uppsrc/ide/version.h

```
 $(MAKE) -f mkfile JOBS=$(JOBS) PKG=ide "NESTS=uppsrc" $(OPTS) "FLAGS=GUI NOGTK
GCC" TARGET=`pwd`/$@  PLATFORM=LINUX

umk:
 $(MAKE) -f mkfile JOBS=$(JOBS) PKG=umk "NESTS=uppsrc" $(OPTS) "FLAGS=GCC"
TARGET=`pwd`/$@ PLATFORM=LINUX
```

Hope this helps... If not, let me know what else needs to be fixed

Best regards,
Honza

Subject: Re: Build debian package on Debian/kFreeBSD
Posted by vicxtor on Tue, 12 Nov 2013 17:30:33 GMT
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Quote:Also, the flags detected by the makefile are not quite correct. Not sure if that makes some difference, but it might. You can fix them by adding PLATFORM=LINUX to the compiler lines in makefile:ide:

```
 sed -i -e 's/IDE_VERSION[ \t]*"\([0-9]*\)[^"]*"/IDE_VERSION    "\1-'$(SERIES)-$(ARCH)"'/'
$(CURDIR)/uppsrc/ide/version.h
 $(MAKE) -f mkfile JOBS=$(JOBS) PKG=ide "NESTS=uppsrc" $(OPTS) "FLAGS=GUI GCC
DEBUG DEBUG_FULL" TARGET=`pwd`/$@  PLATFORM=LINUX

ide-nogtk:
 sed -i -e 's/IDE_VERSION[ \t]*"\([0-9]*\)[^"]*"/IDE_VERSION    "\1-'$(SERIES)-$(ARCH)'-nogtk"/'
$(CURDIR)/uppsrc/ide/version.h
 $(MAKE) -f mkfile JOBS=$(JOBS) PKG=ide "NESTS=uppsrc" $(OPTS) "FLAGS=GUI NOGTK
GCC" TARGET=`pwd`/$@  PLATFORM=LINUX

umk:
 $(MAKE) -f mkfile JOBS=$(JOBS) PKG=umk "NESTS=uppsrc" $(OPTS) "FLAGS=GCC"
TARGET=`pwd`/$@ PLATFORM=LINUX
```

Hope this helps... If not, let me know what else needs to be fixed

Best regards,
Honza

This fix is correct.

I modify the patch debian-changes-5485-1~sid0
from
+PLATFORM:=`uname | tr a-z A-Z` POSIX
to

+PLATFORM:=`uname | tr a-z A-Z` LINUX POSIX

then all files compiled successfully and all .debs generated.

Install and run some GUI tutorials without problems.

Tested on Debian/kFreeBSD 7 i386 & amd64.

Thank you very much.

Subject: Re: Build debian package on Debian/kFreeBSD
Posted by dolik.rce on Tue, 12 Nov 2013 18:54:40 GMT
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vicxtor wrote on Tue, 12 November 2013 18:30Install and run some GUI tutorials without problems.

Tested on Debian/kFreeBSD 7 i386 & amd64.

Thank you very much.
That's great news!

I'll try to incorporate it into the Makefile, so you don't have to modify the deb manually next time.

Enjoy the coding with U++!
Honza
