
Subject: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Sun, 21 Jan 2007 18:03:05 GMT

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I have been trying for a bit to get Upp up and running on OS X 10.4.8. I have noticed a few reports of people 'just compiling and running,' and I am curious if they have additional libraries installed.

My setup:

MacBook Pro: 2.16Ghz Core 2 Duo, 2Gb Ram, OS X 10.4.8

XCode / MacOSX10.4u SDK / X11 Extension (from DVD).

Self compiled

- Expat2.0.0,
- FreeType2.3.0,
- FontConfig2.4.2

all compiled cleanly and installed to /usr/lib

I have downloaded the 701-dev1 and 2007.1beta versions of UPP. I am using the Makefile located in the 'uppsrc/ide' directory in both cases. I can not get the 612-dev3 binary version of upp for Mac OSX to run... so all edits are done using vim.

The primary changes to the Makefile:

Set include paths to find fontconfig / freetype.

Adjust the link command (remove the --start-group / --end-group tags).

Added a couple libraries to the link list. (I think they were freetype/fontconfig/Xft/expat/Xrender)

I am down to one error:

/usr/bin/ld: Undefined symbols:

vtable for Upp::BMPEncoder

I have tried adding a destructor... no help.

Does anyone have any thoughts? How about the people who have it running on OSX, what did you have to do?

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [mirek](#) on Sun, 21 Jan 2007 19:09:32 GMT

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The simple and fast way now, thanks to Lundman, is to fetch .dmg files with working TheIDE and compile the new version with it.

<http://www.ultimatepp.org/forum/index.php?t=msg&th=1794&prevloaded=1&start=40>

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Sun, 21 Jan 2007 19:10:09 GMT

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...in the process, starting TheIDE will reveal missing libraries...

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [kcabobert](#) on Mon, 22 Jan 2007 00:06:53 GMT

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I re-downloaded the dmg mentioned in the post you reference. After a bit of tinkering theide opened. However, it seems no matter where I stick the upp folder it was not finding it. (I tried: my home directory, the root directory, right beside the ide.app folder, and a hand full of other misc spots).

Where should I place the upp folder?

I can not really do more on it right now as I am reinstalling OS X. However, once it is back up and running I will start working on it more.

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [kcabobert](#) on Mon, 22 Jan 2007 05:32:21 GMT

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Well, I have OS X and most of my software reinstalled. I think I figured out what trashed the system. I may have hit the "Clean output directory" by mistake. Apparently it was pointing at the root(/), or /Applications directory and wiped a number of programs out. Hopefully that won't happen again.

After some tinkering I still can not get theide to find the upp directory. I recall this issue on a Linux system once, but can not recall how I solved it. Any help or suggestions would be appreciated.

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Mon, 22 Jan 2007 10:16:33 GMT

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Ah, sorry about that. This is really just the very first entry to MacOS X world, there is no automatic install yet.

You have to setup your assemblies manually - right click in the "Assembly" pane of initial dialog,

then setup assemblies.

For recompiling TheIDE, you need to setup "uppsrc" only.

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Mon, 22 Jan 2007 13:43:53 GMT

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Got theide loaded, and running. Loaded uppsrc and exported the ide's Makefile. Now I am stopped at a libcrt0 link error. Making progress, slowly but surely.

I have to head to my office now, but will try more when I get there.

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [mirek](#) on Mon, 22 Jan 2007 13:47:08 GMT

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kcabobert wrote on Mon, 22 January 2007 08:43Got theide loaded, and running. Loaded uppsrc and exported the ide's Makefile.

Why?! If you have TheIDE, setup build method and compile. Makefiles are useful only if you do not have any other choice.

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Mon, 22 Jan 2007 15:07:46 GMT

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Well, in hind-sight I should have. When I was trying to compile I was getting errors related to fontconfig / freetype. So I recompiled those and now I can not get theide to run due to more fontconfig errors.

Fontconfig warning: line 32: unknown element "cachedir"

Fontconfig warning: line 33: unknown element "cachedir"

Fontconfig error: "conf.d", line 1: no element found

These are unrelated to theide, something (possibly permissions) are wrong. Hopefully I can get

this fixed soon though, I would like to recompile my app for Mac soon.

As an aside, we are running the application on Windows and Linux in our field offices. Once we get the Mac OS version running we can get it installed at our HQ. Excellent work!!

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Mon, 22 Jan 2007 16:17:15 GMT

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Got the ide to compile and link cleanly. When I try to run it I get "Bus Error." Any ideas?

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [mirek](#) on Mon, 22 Jan 2007 16:42:15 GMT

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Possible configuration problem.

Maybe activate Setup/Verbose mode copy&paste the console output of building the first package.

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [mirek](#) on Mon, 22 Jan 2007 16:42:54 GMT

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Now thinking about it, copy most likely will not work now

If it does not, screenshot.

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Mon, 22 Jan 2007 23:52:33 GMT

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The problem is that the "ide" compiles fine inside the ide. Then when I try to run the newly created "ide" all I get is "Bus Error."

\$./ide

Bus error

Here is the full output when I recompile (in verbose mode) the ide:

```
Quote:----- ide\Common ( GUI GCC32 DEBUG SHARED DEBUG_FULL BLITZ OSX11 ) (1 / 26)
cd /Users/bobert/upp/uppsrc/ide/Common
BLITZ: Common.cpp Hdepend.cpp Package.cpp Workspace.cpp usc.cpp ComDlg.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHARED
-DflagDEBUG_FULL -DflagBLITZ -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=50 -DbmSECOND=16 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O0 "/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Shared/$blitz.cpp" -o "
/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Shared/$blitz.o "
ide\Common: 6 file(s) built in (0:03.01), 501 msec / file, duration = 3024 msec
```

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Mon, 22 Jan 2007 23:57:21 GMT

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Here is the dump w/o BLITZ:

```
----- ide\Common ( GUI GCC32 DEBUG SHARED DEBUG_FULL OSX11 ) (1 / 26)
cd /Users/bobert/upp/uppsrc/ide/Common
Common.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Common.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Common.o"
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Common.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Common.o"
compiled in (0:02.08)
Hdepend.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Hdepend.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Hdepend.o"
```

```

c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Hdepend.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Hdepend.o"
compiled in (0:02.00)
Package.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Package.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Package.o"
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Package.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Package.o"
compiled in (0:02.00)
Workspace.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Workspace.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Workspace.o"
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/Workspace.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Workspace.o"
compiled in (0:02.01)
usc.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/usc.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/usc.o"

```

```

c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/usc.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/usc.o"
compiled in (0:01.84)
ComDlg.cpp
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/ComDlg.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/ComDlg.o"
c++ -c -I"/Users/bobert/upp/uppsrc" -I"/Users/bobert/Downloads/upp-src-2007/uppsrc"
-I"/usr/include/freetype2" -DflagGUI -DflagGCC32 -DflagDEBUG -DflagSHA
RED -DflagDEBUG_FULL -DflagOSX11 -DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=22
-DbmHOUR=17 -DbmMINUTE=53 -DbmSECOND=37 -m32 -ggdb -g2 -fexceptions -D_DEBUG
-O
0 -x c++ "/Users/bobert/upp/uppsrc/ide/Common/ComDlg.cpp" -o
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/ComDlg.o"
compiled in (0:01.78)
Creating library...
ide\Common: 6 file(s) built in (0:11.66), 1944 msecs / file, duration = 11788 msecs
ar -sr "/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Common.a"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.S
hared/Common.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Hdepend.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full
.Gui.Noblitz.Shared/Package.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Workspace.o"
"/Users/bobert/upp07b1/out/ide/Comm
on/GCC.Debug_full.Gui.Noblitz.Shared/usc.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/ComDlg.o"
ar: creating archive
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Common.a
ar -sr "/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Common.a"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.S
hared/Common.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Hdepend.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full
.Gui.Noblitz.Shared/Package.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Workspace.o"
"/Users/bobert/upp07b1/out/ide/Comm
on/GCC.Debug_full.Gui.Noblitz.Shared/usc.o"
"/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/ComDlg.o"

```

Exitcode: 0
/Users/bobert/upp07b1/out/ide/Common/GCC.Debug_full.Gui.Noblitz.Shared/Common.a
(2070932 B) created in (0:00.27)

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [kcabobert](#) on Tue, 23 Jan 2007 00:15:47 GMT
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OK, I tried running theide in gdb.

Program received signal EXC_BAD_ACCESS, Could not access memory.
Reason: KERN_PROTECTION_FAILURE at address: 0x00000010
0x00be79d3 in XftCharExists ()

So maybe the Xft library is causing my issue?

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [kcabobert](#) on Tue, 23 Jan 2007 01:26:27 GMT
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It seems that in some forum I saw that this error may be related to the version of GCC used.
Currently I am using gcc-4.0.1, should I be using 3.3?

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Tue, 23 Jan 2007 07:40:01 GMT
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kcabobert wrote on Mon, 22 January 2007 19:15OK, I tried running theide in gdb.

Program received signal EXC_BAD_ACCESS, Could not access memory.
Reason: KERN_PROTECTION_FAILURE at address: 0x00000010
0x00be79d3 in XftCharExists ()

So maybe the Xft library is causing my issue?

Well, likely, but it is very strange that binary TheIDE works... (uses Xft too).

AFAIK there was no change in Xft related code.

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Tue, 23 Jan 2007 07:41:36 GMT

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kcabobert wrote on Mon, 22 January 2007 20:26It seems that in some forum I saw that this error may be related to the version of GCC used. Currently I am using gcc-4.0.1, should I be using 3.3?

Could be. But we are using 4.x.x versions in Ubuntu without problems...

But I guess it is worth trying. Also you might want to compile the exact same sources in linux to test whether it is some deviation in Xft...

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [kcabobert](#) on Wed, 24 Jan 2007 04:42:27 GMT

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I tried to compile the ide version I have running on the Mac, 612.r43. I get the same "Bus Error." It will be a few days before I get back to my linux machine to try compiling.

I can not get a clean compile with GCC 3.3.

Has anyone else tried compiling under OSX 10.4.8?

I am wondering if my issues are resulting from the fact that I compiled versions of expat / freetype and fontconfig. Does anyone have thoughts on that?

Robert

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [lundman](#) on Fri, 26 Jan 2007 03:23:02 GMT

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Hey! Sorry, I should have been paying attention to this thread I can probably help with the OsX version. The Xft crash is because Xft could not find any fonts. Make sure you have X11 installed on your OS, which should include the Xft/fontconfig fonts.

I'm on a fresh OsX (intel) now, and after installing "Optional Packages, X11" of the install CD, plus MacPorts of things like "libpng", it works again.

As mentioned, you have to create the Assembly, and point it to your uppsrc/ directory, as well as any other directories you want.

In my build environment I set:

INCLUDE Directories:

/Developer/SDKs/MacOSX10.4u.sdk/usr/X11R6/include/
/Developer/SDKs/MacOSX10.4u.sdk/usr/X11R6/include/freetype2/
/usr/X11R6/include
/opt/local/include

LIBRARY Directories:

/usr/X11R6/lib
/opt/local/lib

I also set different compile flags to do Universal, but that is not needed to compile natively. Let me know if you want to know more.

Compile as "Shared Libs". Static is not work.

I have found you can bundle the shared libs in the application bundle, but figured that would be something to do once the carbon version is done. Or solve why static compiles don't work.

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Wed, 31 Jan 2007 21:45:45 GMT

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Yup, just got back to my office(was traveling) and had some time to play with it. I am able to compile new versions of the ide with the ide.

I am trying to compile some previous packages I wrote, but it seems unable to find uppsrc. Hopefully I can get that solved tonight.

I have discovered that setting 'static' will not compile correctly. But I am able to compile using 'shared'.

What flags are you setting to compile universal binaries?

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [fallingdutch](#) on Wed, 31 Jan 2007 22:44:48 GMT

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on Linux stable doesn't work either.

so all packages released for Linux are compiled as shared

Bas

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [kcabobert](#) on Thu, 01 Feb 2007 03:08:27 GMT

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I was able to get one of my applications to compile and mostly run. When I try to close a window the application dies with "Bus Error".

I do use a special wrapper around the 'TopWindow' class to store user preferences (window size and placement). I point the WhenClose callback to my save preferences function... could that cause the problem?

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [lundman](#) on Fri, 02 Feb 2007 03:11:54 GMT

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There used to be a Core on exit bug, but we did fix it. Where does gdb say it died? If you run the program as

```
# ./myapp -args  
use  
# gdb ./myapp  
gdb> run -args
```

and use "bt" to get the backtrace once it cores.

Universal build:

In Build Environment I add Compiler flags "-arch i386 -arch ppc" to the method I want, or all of them. (debug, size, speed). If you on a ppc mac you also need to add "-isysroot /Developer/SDKs/MacOSX10.4u.sdk"

You need the same options when linking, but alas, there is no way to set Link options with U++ based on the platform, or triggered based on your current Building method.

I get around that by using Package Organiser / Add Link Options / WHEN "OSX11" with flags: "-arch i386 -arch ppc"

again, on PPC, you additionally need to make it:

```
"-syslibroot /Developer/SDKs/MacOSX10.4u.sdk -arch ppc -arch i386"
```

Finally, "ar" on OsX is the Gnu "ar" (as in, untouched) and can not handle fat files. You can change the ide sources to use "libtool" instead of ar, by editing CppBuilder.cpp and GccBuilder.cpp.

Or, replace "ar" with a script (temporarily) if you want (or, place it elsewhere, and fiddle with your PATH, there isn't just one way to fix things in Unix).

My "ar" script looks like:

```
#!/bin/bash

# It is valid to say "ar rc libfoo files.o"
shift

# Skip all arguments
done=0
while [ $done == 0 ]
do
case "$1"
in
  -*)    shift
  ;;
  *)    done=1
  ;;
esac
done

# Get output name
out=$1
shift

echo libtool $* -o $out
exec /usr/bin/libtool $* -o $out
```

Alas, you need all support libraries to also be Universal, ide that means libpng at least. You can compile it yourself using the nice ./configure line, or, fight with "port" to do it for you. If you are doing Universal of your own App, you'll have to work out your own dependencies.

Configure line that works on many things:

```
env CFLAGS="-O -g -isysroot /Developer/SDKs/MacOSX10.4u.sdk -arch i386 -arch ppc"  
LDFLAGS="-arch i386 -arch ppc" ./configure --disable-dependency-tracking
```

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Sat, 07 Apr 2007 17:45:03 GMT

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kcabobert wrote on Sun, 21 January 2007 19:06I re-downloaded the dmg mentioned in the post you reference. After a bit of tinkering theide opened.

Today, with OSX 10.4.8 at hands, I finally wanted to start the work on native port... Now I am stuck at "Bus error" in lundman's package.

Which makes me wonder, what was the "bit of tinkering"?

BTW, I am all new to OS X. Now typing this, has it "Home" and "End" keys to move to beginning/end of line?

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [lundman](#) on Sun, 08 Apr 2007 09:00:06 GMT

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That core dump was due to Xft and missing fonts I thought. It does not read (because it is not there?) the /etc/fonts.conf. Don't do not forget to install the X11 Application from CD1 on OsX, it is optional. I believe it also has a patch, so run Software Updater.

I was using ppc 10.4.8 and now Intel 10.4.8 and 10.4.9. Version made no difference when compiling, but only shared compile worked.

I can show the settings I use if it helps.

I can do a new .dmg too, I've been waiting for final version, but if you prefer rc5, I have the exe just sitting here.

The Mac default keys for Home/End is cmd-cursor down/up, you have no idea how annoying that is to get used to, but soon will!

ps. I noticed the double font problem went away when I stick it in a bundle, so I guess OsX cleans up Environment Variables for me. So not considering it an issue at all now.

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Sun, 08 Apr 2007 09:45:14 GMT
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lundman wrote on Sun, 08 April 2007 05:00That core dump was due to Xft and missing fonts I thought.

Yes, that is what I thought, but I am not quite able to fix the problem

Quote:

It does not read (because it is not there?) the /etc/fonts.conf. Don't do not forget to install the X11 Application from CD1 on OsX, it is optional. I believe it also has a patch, so run Software Updater.

X11 installed... I have also installed some ports, including xft (most likely not quite necessary), but still stuck at that Bus error.

However, /etc/fonts.conf does not sound familiar; I have /etc/fonts/fonts.conf? (Have to check...)

Quote:

I can show the settings I use if it helps.

Would be nice. At the moment, I quite confused with all that Mac thing

Quote:

I can do a new .dmg too, I've been waiting for final version, but if you prefer rc5, I have the exe just sitting here.

That is OK, once I have TheIDE capable of compiling, future is bright

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [lundman](#) on Mon, 09 Apr 2007 01:09:24 GMT

Using MacPorts, I installed:

```
"port install zlib"  
"port install libpng"
```

I did not need to install anything Xft and the like. This is on three machines now (from scratch too, OsX install CD on).

But in case it matters:

```
[Users/lundman] > installed  
The following ports are currently installed:  
autoconf @2.60_0 (active)  
bash @3.2.9_0 (active)  
centericq @4.21.0_1 (active)  
expat @2.0.0_1 (active)  
gettext @0.16.1_0 (active)  
glib2 @2.12.7_0 (active)  
ispell @3.3.02_0 (active)  
kermit @8.0.209_0 (active)  
libiconv @1.11_0+darwin_8 (active)  
libpcap @0.9.4_0 (active)  
libpng @1.2.15_0+darwin_8+darwin_8_i386 (active)  
libusb @0.1.12_0 (active)  
lzs   
lzs @0.12.20_0 (active)  
minicom @2.1_1+darwin_8 (active)  
mtr @0.72_0 (active)  
nmap @4.20_0 (active)  
openssl @0.9.8d_0+darwin_8 (active)  
pcre @7.0_0 (active)  
perl5.8 @5.8.8_0+darwin_8 (active)  
pkgconfig @0.21_0 (active)  
zlib @1.2.3_0+darwin_8_i386 (active)
```

```
lundman@shinken(/Users/lundman/Desktop/upp-2007.1rc5/out/ide/GCC32_UNI_i386.Gui.Main.S  
hared) otool -L ide  
ide:
```

```
/usr/X11R6/lib/libX11.6.dylib (compatibility version 6.2.0, current version 6.2.0)  
/usr/X11R6/lib/libXft.2.dylib (compatibility version 2.1.0, current version 2.1.0)  
/usr/X11R6/lib/libfontconfig.1.dylib (compatibility version 1.0.0, current version 1.0.0)  
/usr/X11R6/lib/libXrender.1.dylib (compatibility version 1.2.0, current version 1.2.0)  
/usr/X11R6/lib/libfreetype.6.dylib (compatibility version 6.3.0, current version 6.3.0)  
/usr/X11R6/lib/libexpat.0.dylib (compatibility version 0.4.0, current version 0.4.0)
```

```
/opt/local/lib/libz.1.dylib (compatibility version 1.0.0, current version 1.2.3)
/opt/local/lib/libpng.3.dylib (compatibility version 19.0.0, current version 19.0.0)
/usr/lib/libstdc++.6.dylib (compatibility version 7.0.0, current version 7.4.0)
/usr/lib/libgcc_s.1.dylib (compatibility version 1.0.0, current version 1.0.0)
/usr/lib/libSystem.B.dylib (compatibility version 1.0.0, current version 88.3.6)
lundman@shinken(/Users/lundman/Desktop/upp-2007.1rc5/out/ide/GCC32_UNI_i386.Gui.Main.S
hared) echo $DISPLAY
:0.0
```

```
lundman@shinken(/Users/lundman/Desktop/upp-2007.1rc5/out/ide/GCC32_UNI_i386.Gui.Main.S
hared) ktrace -di ./ide
lundman@shinken(/Users/lundman/Desktop/upp-2007.1rc5/out/ide/GCC32_UNI_i386.Gui.Main.S
hared) kdump | less
[snippage]
```

```
665 ide  NAMI  "/etc/fonts/fonts.conf"
665 ide  RET  access 0
665 ide  CALL  open(0xe02070,0,0x1b6)
665 ide  NAMI  "/etc/fonts/fonts.conf"
665 ide  RET  open 4
665 ide  CALL  fstat(0x4,0xbffff2b0)
665 ide  RET  fstat 0
665 ide  CALL  read(0x4,0x200ac00,0x1000)
665 ide  GIO  fd 4 read 4096 bytes
  "<?xml version="1.0"?>
  <!DOCTYPE fontconfig SYSTEM "fonts.dtd">
  <!-- /etc/fonts.conf file to configure system font access -->
  <fontconfig>
[snip]
```

```
665 ide  NAMI  "/Users/lundman/.fonts.conf"
665 ide  RET  access -1 errno 2 No such file or directory
665 ide  CALL  access(0xe03200,0x4)
665 ide  NAMI  "/etc/fonts/local.conf"
665 ide  RET  access -1 errno 2 No such file or directory
[snip]
```

```
665 ide  CALL  open(0xe02030,0,0x1b6)
665 ide  NAMI  "/Users/lundman/.fonts.cache-1"
665 ide  RET  open 4
```

Whole lot of font reading here..

[snip]

Also tried clearing my env, including locale, and DISPLAY. Still runs just fine.

For those with a working IDE:

File Attachments

1) [01assembly.jpg](#), downloaded 1412 times

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [lundman](#) on Mon, 09 Apr 2007 01:12:56 GMT

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... and the Build Methods (only 1 pic per post)

File Attachments

1) [02buildmethods.jpg](#), downloaded 1361 times

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [lundman](#) on Mon, 09 Apr 2007 03:49:29 GMT

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Oh and don't forget to start the X11 application first, it'll pop up an XTerm (which you can quit). There should be a little "up arrow" under the X11 icon in the Dock bar that indicates it is loaded.

But that does display "no display found" and not core dump here, so I assume that is not the issue.

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [mirek](#) on Mon, 09 Apr 2007 11:22:54 GMT

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Everything seems to be in order, but still "Bus error". I suspect it is font problem - crash is in FontInfo, maybe missing fonts? But I have X11 up and running.....

Anyway, I am attaching crash report.

Mirek

File Attachments

1) [ide.crash.log](#), downloaded 642 times

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [lundman](#) on Mon, 09 Apr 2007 12:18:41 GMT
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xlsfonts|wc -l
5484

What about yours?

10.4.8.. can you update, at least the X11 update?

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [mirek](#) on Mon, 09 Apr 2007 15:16:02 GMT
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lundman wrote on Mon, 09 April 2007 08:18

10.4.8.. can you update, at least the X11 update?

Excellent tip. Updating X11 did the trick, TheIDE now starts!

Thanks.

Mirek

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [lundman](#) on Mon, 09 Apr 2007 22:14:39 GMT
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Phew, that is good. We are all very eagerly awaiting the native port over here, let me know if I can help.

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX
Posted by [kcabobert](#) on Wed, 18 Apr 2007 17:35:50 GMT
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Sorry guys, I should have been checking the forums a little more. Did you get the problem solved?

A couple things:

- 1) The home/end key is extremely annoying... but you can, at least, fix a few applications like Terminal to behave as expected.
- 2) I did not ever install anything from Mac ports. As I recall, the only thing I had to install was libpng. I just downloaded it from the libpng site and it compiled cleanly. I, of course, installed X11 first from the DVD.
- 3) I have used theide and my software on PPC: 10.3.x and 10.4.{8,9}, and Intel: 10.4.{8,9} without major issues.
- 4) I can not get a Universal app compiled with theide... but I can manually from a terminal.
- 5) I have to edit Core/Core.h to include flagNOGTK in the OSX11->GUI area. Could we default that to include it, since I doubt many OSX users have GTK?

Subject: Re: 701-dev1 / 2007.1beta on Mac OSX

Posted by [lundman](#) on Thu, 19 Apr 2007 03:55:45 GMT

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1: I agree Same in Mozilla/Seamonkey - typing an email is extremely annoying.

2: It needs libpng, how you install it is up to you. "ports" is just extreme convenient. In future, the extra libraries should be in the ide Bundle and fixed to look there. I saw a guide on it somewhere, but I have not done so yet.

3: Good.

4: I wrote a guide on how to do Universal. You need more compiler arguments, link arguments and finally, hack your "ar" to be better. Don't forget that any library you link against should be UB (libpng).

5: You can add -DflagNOGTK to Build Environment instead. Then it is still optional.

Actually no, 4 linking only needs UB libraries if you are doing static linking, which I do with OpenSSL in my own project.
