Subject: MacOS ide make problem
Posted by rett on Sun, 05 Sep 2010 19:14:17 GMT
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Hello All,
I try compile ide with lpbuild.
When compile I have error:

...
Compiling Core/Cpu.cpp (flags DARWIN GCC GUI POSIX SHARED) ...
uppsrc/Core/Cpu.cpp: In function 'void Upp::sCheckCPU()':
uppsrc/Core/Cpu.cpp:40: error: PIC register '%ebx' clobbered in 'asm'
make[1]: *** [_out/Core/DARWIN_GCC_GUI_POSIX_SHARED/Cpu.o] Error 1
make: [ide] Error 2 (ignored)
Everything done.

and

...
Compiling Core/Mt.cpp (flags DARWIN GCC GUI MT POSIX SHARED) ...
uppsrc/Core/Mt.cpp:75: error: thread-local storage not supported for this target
make[1]: *** [_out/Core/DARWIN_GCC_GUI_MT_POSIX_SHARED/Mt.o] Error 1
make: [ide] Error 2 (ignored)
Everything done.

how fix it?

Subject: Re: MacOS ide make problem
Posted by dolik.rce on Sun, 05 Sep 2010 21:06:00 GMT
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Hi Rett!

First of all: The Mac port is (AFAIK) not finished yet. So be prepared for some trouble

What compiler are you using? The errors seem like from GCC, but the lack of thread local storage (second error) is a bit weird.

As for the first error, I am not really expert in this field, but it has something to do with position independent code generation. I think adding an option -fno-PIC might help (make CXXFLAGS="-fno-PIC" PKG=...). If not, search for PIC in gcc man page

Best regards,
Honza

PS: How do you like the Makefile? Any feedback will be appreciated.

Subject: Re: MacOS ide make problem
Posted by rett on Mon, 06 Sep 2010 04:22:19 GMT
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dolik.rce wrote on Sun, 05 September 2010 23:06
Hi Rett!

First of all: The Mac port is (AFAIK) not finished yet. So be prepared for some trouble

Ok, may be I can help with testing or some fix

dolik.rce wrote on Sun, 05 September 2010 23:06
What compiler are you using? The errors seem like from GCC, but the lack of thread local storage (second error) is a bit weird.

I use GCC. Yes, is a bit weird. On this time I compile without MT.

dolik.rce wrote on Sun, 05 September 2010 23:06
As for the first error, I am not really expert in this field, but it has something to do with position independent code generation. I think adding an option -fno-PIC might help (make CXXFLAGS="-fno-PIC" PKG=...). If not, search for PIC in gcc man page

Thank you, It works.

dolik.rce wrote on Sun, 05 September 2010 23:06
PS: How do you like the Makefile? Any feedback will be appreciated.
Thank a lot for Makefile, It's very good for me.

Subject: Re: MacOS ide make problem
Posted by dolik.rce on Mon, 06 Sep 2010 09:16:28 GMT
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rett wrote on Mon, 06 September 2010 06:22dolik.rce wrote on Sun, 05 September 2010 23:06
What compiler are you using? The errors seem like from GCC, but the lack of thread local storage (second error) is a bit weird.

I use GCC. Yes, is a bit weird. On this time I compile without MT.
I did some reading and found out that it is not that weird after all. Mac OS X gcc has no support for TLS. You might have to wait till it supports c++0x standard, which standardizes it

BTW: I see you were compiling in GUI mode, how does that work on Mac? I was under impression that that is the problematic part of porting...

Honza

Subject: Re: MacOS ide make problem
Posted by rett on Mon, 06 Sep 2010 17:55:04 GMT
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dolik.rce wrote on Mon, 06 September 2010 11:16rett wrote on Mon, 06 September 2010 06:22dolik.rce wrote on Sun, 05 September 2010 23:06
What compiler are you using? The errors seem like from GCC, but the lack of thread local storage (second error) is a bit weird.

I use GCC. Yes, is a bit weird. On this time I compile without MT.
I did some reading and found out that it is not that weird after all. Mac OS X gcc has no support for TLS. You might have to wait till it supports c++0x standard, which standardizes it

BTW: I see you were compiling in GUI mode, how does that work on Mac? I was under impression that that is the problematic part of porting...

Honza

I compile in commandline:
make -f uppbox/lpbuild/Makefile CXXFLAGS="-fno-PIC" PKG=ide "FLAGS=GUI GCC SHARED NOGTK" DIRS=uppsrc

Compiled without MT flag and compilation is successful.
So next problem is with linking.

```
 Preparing output directory structure ...
  Building package ide [TheIDE main package] (473 files in 34 packages, flags: DARWIN GCC GUI MAIN NOGTK POSIX SHARED)
  Linking bin/ide ...
ld: unknown option: --gc-sections
collect2: ld returned 1 exit status
make[1]: *** [bin/ide] Error 1
make: [ide] Error 2 (ignored)
Everything done.
```

Subject: Re: MacOS ide make problem
Posted by dolik.rce on Mon, 06 Sep 2010 18:27:53 GMT
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Hi Rett,

By compiling "in GUI mode" I meant "with GUI flag", sorry for being imprecise

The linking problem should be solvable easily just by overwriting the default value of LDFLAGS. Leaving it empty should work just fine for starter. So now the command line should be:make -f

uppbox/lpbuild/Makefile CXXFLAGS="-fno-PIC" PKG=ide "FLAGS=GUI GCC SHARED NOGTK" DIRS=uppsrc LDFLAGS=

If that works, you can also try LDFLAGS="-Wl,-s"

Honza

Subject: Re: MacOS ide make problem
Posted by rett on Tue, 07 Sep 2010 04:51:03 GMT
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dolik.rce wrote on Mon, 06 September 2010 20:27Hi Rett,

By compiling "in GUI mode" I meant "with GUI flag", sorry for being imprecise

The linking problem should be solvable easily just by overwriting the default value of LDFLAGS. Leaving it empty should work just fine for starter. So now the command line should be:make -f uppbox/lpbuild/Makefile CXXFLAGS="-fno-PIC" PKG=ide "FLAGS=GUI GCC SHARED NOGTK" DIRS=uppsrc LDFLAGS=

If that works, you can also try LDFLAGS="-Wl,-s"

Honza

OK, if something wrong I show images of screen.
Yes, I try set empty LDFLAGS but I have error:
ld: unknown option: --start-group

Subject: Re: MacOS ide make problem
Posted by dolik.rce on Tue, 07 Sep 2010 08:24:57 GMT
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rett wrote on Tue, 07 September 2010 06:51
Yes, I try set empty LDFLAGS but I have error:
ld: unknown option: --start-group

Ok, this is bit worse It will require some changes in the Makefile itself... I'll have a look at it ASAP and send you the updated file.

Honza

Subject: Re: MacOS ide make problem

Posted by dolik.rce on Tue, 07 Sep 2010 10:50:38 GMT
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Ok, here is a new Makefile, hopefully fixing the problem with grouping

BTW: Feel free to contact me on icq, irc or google talk, it makes the communication and fixes way faster

Honza

File Attachments
1) Makefile, downloaded 718 times

Subject: Re: MacOS ide make problem
Posted by rett on Wed, 08 Sep 2010 11:44:08 GMT
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dolik.rce wrote on Tue, 07 September 2010 12:50Ok, here is a new Makefile, hopefully fixing the problem with grouping

BTW: Feel free to contact me on icq, irc or google talk, it makes the communication and fixes way faster

Honza

thx for help.

in attachment new errors.

File Attachments
1) error.txt, downloaded 818 times

Subject: Re: MacOS ide make problem
Posted by dolik.rce on Wed, 08 Sep 2010 13:42:34 GMT
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The errors you get mean that the linker didn't find the X11 libraries. Do you have it installed on your machine? It should be available on mac since Mac OS X 10.3, at least that is what I understand from this page: http://developer.apple.com/opensource/tools/runningx11.html. Have a look there, it looks like a very good source of information.

If you have it installed or when you install it, you might have to change the library paths using LIBPATHS="...". But if I am not mistaken the "/usr/X11R6/lib" that is already in defaults should be sufficient.

Honza

PS: There is of course also second, better option: Finish the port to use native mac environment

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Subject: Re: MacOS ide make problem
Posted by dolik.rce on Sun, 19 Sep 2010 11:44:59 GMT
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Hi rett,

Any news about compiling theide on mac? Did you try to install X11? I am very curious

Best regards,
Honza

Subject: Re: MacOS ide make problem
Posted by lundman on Wed, 29 Sep 2010 06:47:48 GMT
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I did all the OSX work a couple of years back, and I still use the old version of ide since I have had no reason to upgrade. Shame there has been to updates for OSX since then.
