Subject: Possible bug
Posted by fithisux on Fri, 26 Jan 2007 17:11:53 GMT
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I use windows xp SP2, and the proposed 3.4.5 mingw toolchain.

I try to link a small app I have written with libxml2. I downloaded the binaries from http://www.zlatkovic.com/pub/libxml/

and I decompressed all in my c:\xmlsoft_distro folder with layout

c:\xmlsoft_distro\bin
c:\xmlsoft_distro\lib
c:\xmlsoft_distro\include
..... blah .. blah

My app is TestXML. When the linker tries to generate according to mingw I have to do something like (in MSYS)

g++ -mwindows -mconsole -c TextXML.cpp -I"c:/xmlsoft_distro/lib"

and for linking (you have to put the full path to the lib, because mingw views it like an object file)

g++ -mwindows -mconsole -o TestXML.exe TestXML.o c:/xmlsoft_distro/libxml2.lib

It works fine.

Upp 2007.1.Beta2 does something similar for compilation and works but for linking it does something similar to

g++ -mwindows -mconsole -o TestXML.exe c:/xmlsoft_distro/libxml2.lib TestXML.o

which fails.

Can you take a look? .exe and .o must be switched I think. I used http://www.xmlsoft.org/examples/index.html#tree1.c as TreeXML.cpp

Solve some minor bugs and VS will be phased out. Thanks for the great IDE.

Subject: Re: Possible bug
Posted by fallingdutch on Fri, 26 Jan 2007 22:47:27 GMT
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fithisux wrote on Fri, 26 January 2007 18:11
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the -o option means "save output as" so -o should be followed by TestXML.exe.

But i have no clue why it fails.

btw: why don't you use the xml shipped with upp (Core/Xml)?
examples: XmlView
reference: XML and Xmlize

Bas

Subject: Re: Possible bug
Posted by fithisux on Sun, 28 Jan 2007 21:47:13 GMT
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Sorry , my mistake.

I think .lib and .o must be swapped.

And about xml shipped with UPP, I agree with you but for now my work is being done with libxml2. I will evaluate the classes by UP later. Do you believe that it is a UPP bug or a mingw bug? Any fedback by other viewers?

Sorry again for my erroneous way of stating my report.

Subject: Re: Possible bug
Posted by fithisux on Tue, 30 Jan 2007 23:40:08 GMT
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Any replies yet? I think the problem is in the location of the .lib files. I need to port CoreLibrary and possible xerces-c to mingw by creating upp project files. Give me a hint. Has anyone managed to link .lib under mingw with UPP yet?

Subject: Re: Possible bug

Posted by mirek on Wed, 31 Jan 2007 07:17:50 GMT
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fithisux wrote on Fri, 26 January 2007 12:11
Upp 2007.1.Beta2 does something similar for compilation and works but for linking it does something similar to

g++ -mwindows -mconsole -o TestXML.exe c:/xmlsoft_distro/libxml2.lib TestXML.o

which fails.

Can you take a look? .exe and .o must be switched I think. I used http://www.xmlsoft.org/examples/index.html#tree1.c as TreeXML.cpp

Solve some minor bugs and VS will be phased out. Thanks for the great IDE.

Sorry for the delay...

Well, how do you put the .lib into the project?

The correct way is to add path to lib to build method, then use "Add library" in package organizer. I believe that this way cannot produce the above commandline.

Mirek

Subject: Re: Possible bug
Posted by fithisux on Wed, 31 Jan 2007 08:52:37 GMT
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I will give you more details. As I mentioned before everything is in folder c:/xmlsoft_distro

In project manager (I used configuration STUDENT_VER, just for fun) I added

Compiler options

1. WHEN STUDENT_VER : -Ic:/xmlsoft_distro/include

Libraries

2. WHEN STUDENT_VER : C:/xmlsoft_distro/lib/libxml2.lib C:/xmlsoft_distro/lib/zlib.lib C:/xmlsoft_distro/lib/iconv.lib

The output is

----- TestXML (MT STUDENT_VER MAIN GCC DEBUG SO SHARED DEBUG_FULL WIN32)

```
cd c:\MyApps\TestXML
TestXML.cpp
mingw32-g++ -c  -I"c:\MyApps" -I"C:\mingw\include" -DflagMT -DflagSTUDENT_VER -DflagMAIN
-DflagGCC -DflagDEBU
 G -DflagSO -DflagSHARED -DflagDEBUG_FULL -DflagWIN32 -DbmYEAR=2007
-DbmMONTH=1 -DbmDAY=31 -DbmHOUR=10 -Db
 mMINUTE=48 -DbmSECOND=10 -mthreads -g2 -shared -fPIC -Ic:/xmlsoft_distro/include
-fexceptions  -D_DEBUG -
 O0 -fuse-cxa-atexit -x c++ "c:\MyApps\TestXML\TestXML.cpp" -o
"C:/MyApps/out/TestXML/MINGW.Debug_full.Mai
 n.Mt.Noblitz.Shared.So.Student_ver\TestXML.o"
c:\MyApps\TestXML\TestXML.cpp:1: warning: -fPIC ignored for target (all code is position
independent)
C:\mingw\bin\mingw32-g++.exe -c  -I"c:\MyApps" -I"C:\mingw\include" -DflagMT
-DflagSTUDENT_VER -DflagMAIN -Df
 lagGCC -DflagDEBUG -DflagSO -DflagSHARED -DflagDEBUG_FULL -DflagWIN32
-DbmYEAR=2007 -DbmMONTH=1 -DbmDAY=3
 1 -DbmHOUR=10 -DbmMINUTE=48 -DbmSECOND=10 -mthreads -g2 -shared -fPIC
-Ic:/xmlsoft_distro/include -fexcep
 tions  -D_DEBUG -O0 -fuse-cxa-atexit -x c++ "c:\MyApps\TestXML\TestXML.cpp" -o
"C:/MyApps/out/TestXML/MIN
  GW.Debug_full.Main.Mt.Noblitz.Shared.So.Student_ver\TestXML. o "
compiled in (0:03.13)
TestXML: 1 file(s) built in (0:02.99), 2994 msecs / file, duration = 3294 msecs
Linking...
mingw32-g++ -mwindows -mconsole -o "
C:\MyApps\out\MINGW.Debug_full.Mt.Noblitz.Shared.So.Student_ ver\TestXML.e
 xe" -ggdb -L"C:\mingw\lib" -Wl,-O,2  "
C:/MyApps/out/TestXML/MINGW.Debug_full.Main.Mt.Noblitz.Share d.So.St
 udent_ver\TestXML.o" -Wl,--start-group  -lC:/xmlsoft_distro/lib/libxml2.lib
-lC:/xmlsoft_distro/lib/zlib.
 lib -lC:/xmlsoft_distro/lib/iconv.lib -Wl,--end-group
 C:\mingw\bin\..\lib\gcc\mingw32\3.4.5\..\..\..\..\mingw32\bi n\ld.exe: cannot find
-lC:/xmlsoft_distro/lib/lib
 xml2.lib
collect2: ld returned 1 exit status
C:\mingw\bin\mingw32-g++.exe -mwindows -mconsole -o
"C:\MyApps\out\MINGW.Debug_full.Mt.Noblitz.Shared.So.Stud
 ent_ver\TestXML.exe" -ggdb -L"C:\mingw\lib" -Wl,-O,2
"C:/MyApps/out/TestXML/MINGW.Debug_full.Main.Mt.Nob
 litz.Shared.So.Student_ver\TestXML.o" -Wl,--start-group  -lC:/xmlsoft_distro/lib/libxml2.lib
-lC:/xmlsoft
 _distro/lib/zlib.lib -lC:/xmlsoft_distro/lib/iconv.lib -Wl,--end-group
Error executing C:\mingw\bin\mingw32-g++.exe -mwindows -mconsole -o
"C:\MyApps\out\MINGW.Debug_full.Mt.Noblit
 z.Shared.So.Student_ver\TestXML.exe" -ggdb -L"C:\mingw\lib" -Wl,-O,2
"C:/MyApps/out/TestXML/MINGW.Debug_
 full.Main.Mt.Noblitz.Shared.So.Student_ver\TestXML.o" -Wl,--start-group
```

-lC:/xmlsoft_distro/lib/libxml2.
 lib -lC:/xmlsoft_distro/lib/zlib.lib -lC:/xmlsoft_distro/lib/iconv.lib -Wl,--end-group
Exitcode: 1

There were errors. (0:04.20)

I used the simplified example to indicate my possible reason for the error

---

Subject: Re: Possible bug
Posted by mirek on Wed, 31 Jan 2007 13:50:05 GMT
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The commandline seems correct to me.

HOWEVER, the problem is that ".lib" is not usual extension for mingw. My guess is that these are MS VC++ libraries, incompatible with mingw.

Mirek

Subject: Re: Possible bug
Posted by fithisux on Thu, 01 Feb 2007 08:22:05 GMT
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Hi again,

in my first report I show that this is not a problem with .lib. If you put TestXML.o after -o TestXML.exe it compiles and links and runs happily even though .lib are MSVC libraries. You can read at http://www.mingw.org/mingwfaq.shtml#faq-msvcdll . They have implemented support for .lib . I have linked to it. I cannot understand if this is a bug in the realm of Ultimate++ or MINGW.

Have you made a test with the information in the first report? I yes you will see I am right.

I think many people need to link to .libs on windows. For example mingw does not compile opencv (no suitable project yet, though Ultimate++ can help here). Ultimate++ provides a viable alternative to VStudio.

Do I have to make the modifications to the source code myself or is there someone who takes care of it?

Subject: Re: Possible bug
Posted by mirek on Thu, 01 Feb 2007 18:02:47 GMT
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Do you think you could zip your test package and post it here to boost our fixing efforts a little?

("Always include compilable testcase").

Mirek

Subject: Re: Possible bug
Posted by fithisux on Fri, 02 Feb 2007 14:57:38 GMT
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In order to help you, this is my assembly with package MyApps. In TestXML folder there is the batch file (vasilis.bat) I used to link the TestXML.o in the out folder. You need a working mingw and you need to unzip all the binaries form ftp://ftp.zlatkovic.com/pub/libxml/ into c:\xmlsoft_distro to create a file hierarchy with bin/lib/ .... blah blah blah.

Then you are ready to go. If you need more, just tell me.

Vasilis Anagnostopoulos

File Attachments
1) MyApps.7z, downloaded 506 times

Subject: Re: Possible bug
Posted by mirek on Sat, 03 Feb 2007 21:53:08 GMT
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OK, it was that .lib extension after all... now fixed. Quick fix:

ide/Builders/GccBuilder.cpp 423

if(ext == ".a" || ext == ".so" || ext == ".dll" || ext == ".lib")

Subject: Re: Possible bug
Posted by fithisux on Sat, 03 Feb 2007 22:46:53 GMT
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Thank you luzr,

thank you from the bottom of my heart.

Subject: Re: Possible bug
Posted by mirek on Sun, 04 Feb 2007 06:39:03 GMT
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P.S.: For testcase, usually (and in this case too) all is needed is to pack single package directory - not MyApps and out folder, just TextXML....