
Subject: LIB from Visual C++ cannot link to UPP package

Posted by [zaurus](#) on Mon, 09 Oct 2006 12:15:43 GMT

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Hi!

Is it basically possible to create a library with Visual C++ and then use it in a UPP package?

I tried and copied the lib-file and header-files into the package folder and then included it in the package. I also change the settings und 'Build Methods' to include the path to my lib-file, but I always get problems during linking. Some unresolved references.

Thanks for any help.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [zsolt](#) on Mon, 09 Oct 2006 12:43:56 GMT

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Isn't it possible that your lib contains some references to other libs?

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [zaurus](#) on Mon, 09 Oct 2006 13:27:01 GMT

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That might be possible. I thought libs are statically linked and so should include everything, but I will check it this area.

Thanks for the super fast answer.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Wed, 11 Oct 2006 05:45:19 GMT

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Well, you decription of the process is a little bit fuzzy to me.

The right simple way how to use external library is to add it in package organizer to the package that needs it - right click to the right pane and choose "Add library...".

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Wed, 25 Oct 2006 10:44:30 GMT

That's exactly what I did and when linking I get a nice message:

Linking...

```
\mingw\lib\gcc\mingw32\3.4.2\..\..\..\mingw32\bin\ld.exe: cannot find
-llibboost_filesystem-mgw-s-1_33_1.lib
collect2: ld returned 1 exit status
```

And I have added the c:\upp\myapps\mysqldemo dir in Package Organizer->Link Options

```
-Lc:\upp\myapps\mysqldemo
```

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [yeohhs](#) on Wed, 25 Oct 2006 13:25:57 GMT

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Hi,

If you are using MinGW in Ultimate++, there will be problems when linking Visual C++ libs with your project. This is because the MinGW .a library files are not compatible with Visual C++'s .lib files.

If you use MSC7.1 or MSC8 in Ultimate++, there should be no problems.

Hope this helps.

Best Regards,
Yeoh

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Wed, 25 Oct 2006 13:55:41 GMT

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yeohhs wrote on Wed, 25 October 2006 16:25Hi,

If you are using MinGW in Ultimate++, there will be problems when linking Visual C++ libs with your project. This is because the MinGW .a library files are not compatible with Visual C++'s .lib files.

If you use MSC7.1 or MSC8 in Ultimate++, there should be no problems.

Hope this helps.

Best Regards,
Yeoh

Actually, I built Boost using both mingw and VC so I have two different libs. But the same error is displayed in VC also.

Linking...

LINK : fatal error LNK1104: cannot open file 'libboost_filesystem-vc71-sgd-1_33_1.lib'

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Wed, 25 Oct 2006 14:13:28 GMT

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Hint: There is "Verbose" option in Setup menu. Activate that to see which commandline options are actually send to compiler and linker.

Fastest way how to figure out what is wrong.

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [yeohhs](#) on Wed, 25 Oct 2006 14:54:14 GMT

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cioannou wrote on Wed, 25 October 2006 21:55

Actually, I built Boost using both mingw and VC so I have two different libs. But the same error is displayed in VC also.

Linking...

LINK : fatal error LNK1104: cannot open file 'libboost_filesystem-vc71-sgd-1_33_1.lib'

Hello,

Sorry about my incorrect assumption earlier.

From your linker error, it looks like the linker cannot find the .lib file. Is the file libboost_filesystem-vc71-sgd-1_33_1.lib created? And in which folder is it in? You'll probably need to re-check your libraries path.

Best Regards,
Yeoh

Subject: Re: LIB from Visual C++ cannot link to UPP package
Posted by [cioannou](#) on Thu, 26 Oct 2006 14:29:27 GMT
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From the error message I get, that's the assumption I made too.

Checked and re-checked the paths and filenames (copy/paste) but still getting the same message, no matter if I use the mingw or the VC .lib

Here is what I do:

- a) Build-Methods-> LIB-directories for lib files-> Copy & Paste the path from my explorer window.
C:\Dev-Cpp\include\boost\bin\boost\libs\filesystem\build\lib
boost_filesystem.lib\mingw\release\runtime-link-static
- b) Package Organizer->New Libraries-> Copy & Paste the lib filename from the previous explorer window.
libboost_filesystem-mgw-s-1_33_1.lib

F7 (Build)

I Even tried to put the full path and filename in Package Organizer, but I get the same message.

That's all

(Same logic works in Dev-C++)

Subject: Re: LIB from Visual C++ cannot link to UPP package
Posted by [mirek](#) on Thu, 26 Oct 2006 14:33:28 GMT
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Have you tried the verbose mode to see what is happening?

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package
Posted by [cioannou](#) on Thu, 26 Oct 2006 15:18:38 GMT

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luzr wrote on Thu, 26 October 2006 17:33 Have you tried the verbose mode to see what is happening?

Mirek

Yes, I did, nothing helpful, the -lc:\...\boost...lib parameter is included but I get the same error.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Thu, 26 Oct 2006 15:23:46 GMT

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Then the problem is most likely with library format or name.

As the first thing I would try to rename the file to some shorter name (just as experiment).

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Fri, 27 Oct 2006 08:23:32 GMT

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luzr wrote on Thu, 26 October 2006 18:23 Then the problem is most likely with library format or name.

As the first thing I would try to rename the file to some shorter name (just as experiment).

Mirek

Thanks, but already tried it.

-lc:\myapps\demoapp\boost.lib

Same error

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [yeohhs](#) on Fri, 27 Oct 2006 09:33:22 GMT

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This is very strange.

Quote:

(Same logic works in Dev-C++)

Have you tried to generate a makefile in Dev-C++ and in U++ and compare the compiler and linker settings?

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Fri, 27 Oct 2006 09:37:24 GMT

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yeohhs wrote on Fri, 27 October 2006 12:33 This is very strange.

Quote:

(Same logic works in Dev-C++)

Have you tried to generate a makefile in Dev-C++ and in U++ and compare the compiler and linker settings?

That's beyond my skills.

In order to build the boost libraries I followed the boost build instructions and used the "bjam" utility. Afterwards I just included the lib in my Dev-Cpp project and it just worked.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Fri, 27 Oct 2006 11:39:09 GMT

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uses
CtrlLib,
MySql,
Sql;

options
-IC:\Dev-Cpp\include\boost,

```
-lc:\upp\myapps\mysqldemo;
```

file

```
MysqlDemo.h,  
main.cpp charset "windows-1253",  
MysqlDemo.lay;
```

mainconfig

```
"" = "GUI";
```

That's my upp file, I don't see any linker options in here. Should they be included?

If "Be verbose" is enabled then I can see the -L flag appended which means that the library dirs are included.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Fri, 27 Oct 2006 12:33:01 GMT

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I think I suspect where the problem is...

You have added -l option to the build method compiler options. But that is not right, those options are just to compile the file, not for linking. (Please check if in verbose mode there is -l in `_LINKING_` step).

You should add it in package organizer as "Add library...".

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Fri, 27 Oct 2006 14:24:46 GMT

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Here are my screens.

<http://img252.imageshack.us/my.php?image=uppbuildmethodsxp4.png>

<http://img79.imageshack.us/my.php?image=uppbuildmethods2vi3.png>

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Sun, 29 Oct 2006 02:58:36 GMT

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Well, you are showing settings for mingw build method, but in your package organizer, there is .lib extension for the library.

That cannot work.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [cioannou](#) on Sun, 29 Oct 2006 17:04:15 GMT

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What do you mean?

The same lib file is linked in my example Dev-C++ project and it works.

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [captainc](#) on Sun, 11 Feb 2007 17:50:58 GMT

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Did you ever find a solution to your problem? I have a similar problem with another library and would like to know.

I am getting the error:

LINK : fatal error LNK1104: cannot open file 'C:\Program Files\upp\out\tclap\MSC8\tclap.lib'

Using MSC8 Optimal build (it compiles and runs fine in the debug build). tclap is the name of a package that I created and populated with a code library.

Is the linker looking for a file or a folder? And why would it have a directory like "MSC8."?

Edit 1: Upp was not building the object/library files for the tclap package. I got it to compile by removing the package dependency and then simply including the header file for the library. What would cause it not to create object files for that package of code?

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Sun, 11 Feb 2007 22:43:49 GMT

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OK, the problem *was* that mingw in fact supports .lib, but theide did not.

This is now fixed.

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [ebojd](#) on Mon, 12 Feb 2007 21:06:23 GMT

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Mirek,

Could you sync SVN and/or deploy a beta4 with source? There has been enough changes to U++ since the last release (about two weeks ago) that it would be nice to catch up...

Thanks,

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [mirek](#) on Mon, 12 Feb 2007 21:13:10 GMT

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rc1 is being released tonight (Monday Feb 12th 2007).

Mirek

Subject: Re: LIB from Visual C++ cannot link to UPP package

Posted by [ebojd](#) on Mon, 12 Feb 2007 21:17:52 GMT

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Cool! Thanks.

I should be able to test it out on WinXP and Gentoo-linux once I get it.

Comments to follow
