
Subject: Error when compiling native MySql with MSC9
Posted by [BioBytes](#) on Wed, 26 Oct 2011 17:10:08 GMT
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Hi all friends,

I got a recurrent issue with MySql library. When compiling native MySql, the following error messages appear:

```
----- CtrlLib ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 1 / 11)
----- Sql ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 2 / 11)
----- MySql ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 3 / 11)
----- CtrlCore ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 4 / 11)
----- Draw ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 5 / 11)
----- plugin/bmp ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 6 / 11)
----- RichText ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 7 / 11)
----- Core ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 8 / 11)
MySql.cpp
----- plugin/z ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 9 / 11)
----- plugin/png ( GUI MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 10 / 11)
----- DirectDB ( GUI MAIN MSC9 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 11 / 11)
C:\Program Files\MySQL\MySQL Server 5.5\include\typelib.h(29) : error C2146: syntax error :
missing ';' before identifier 'find_typeset'
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MySql: 1 file(s) built in (0:01.18), 1182 msecs / file, duration = 2308 msecs, parallelization 97%
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specifier - int assumed. Note: C++ does not su

pport default-int

D:\Logiciels\Projets Ultimate\DirectDB\DirectDB.sch(1) : fatal error C1903: unable to recover from previous error(s); stopping compilation

DirectDBmain.cpp

DirectDB: 1 file(s) built in (0:02.70), 2703 msecs / file, duration = 3838 msecs, parallelization 58%

There were errors. (0:04.04)

I go through this problem by using ODBC connection but it could not be a suitable solution for large databases and a lot of users trying to connect to the database.

Any idea ?

Thanks for help

Biobytes

Subject: Re: Error when compiling native MySql with MSC9

Posted by [BioBytes](#) on Mon, 07 Nov 2011 17:44:47 GMT

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Hi alls,

To go on with this issue when compiling directly with MySql headers and libs not through ODBC driver, I noticed that setting the project option to Multithreading (MT), I got now only one link error :

Linking...

LINK : fatal error LNK1181: cannot open input file 'opt\mysqlclient.lib'

There were errors. (0:01.31)

I took the idea from MySql website where it is said that a multi threaded mysql client library is required.

So anybody has an idea to solve this linkage error ?

Help will be appreciated

Thanks in advance

Biobytes

Subject: Re: Error when compiling native MySql with MSC9

Posted by [mirek](#) on Tue, 08 Nov 2011 19:08:50 GMT

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BioBytes wrote on Mon, 07 November 2011 12:44Hi alls,

To go on with this issue when compiling directly with MySQL headers and libs not through ODBC driver, I noticed that setting the project option to Multithreading (MT), I got now only one link error :

Linking...

LINK : fatal error LNK1181: cannot open input file 'opt\mysqlclient.lib'

There were errors. (0:01.31)

I took the idea from MySQL website where it is said that a multi threaded mysql client library is required.

So anybody has an idea to solve this linkage error ?

Help will be appreciated

Thanks in advance

Biobytes

Should be pretty easy, you need to add library path to build method which, combined with 'opt/mysqlclient.lib' would lead to actual .lib file...

Subject: Re: Error when compiling native MySQL with MSC9

Posted by [BioBytes](#) on Wed, 09 Nov 2011 18:33:06 GMT

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Thanks Mirek,

I added the path to opt/mysqlclient.lib directory in Build methods but I still get a linkage error:

Linking...

LIBCMTD.lib(crt0.obj) : error LNK2019: unresolved external symbol _main referenced in function __tmainCRTStartup

D:\Logiciels\Projets Ultimate\OutPrjs\Mes Projets\MSC9.Debug.Debug_Full.Mt\DirectDB.exe : fatal error LNK1120: 1 unresolved externals

There were errors. (0:13.43)

I guess there is some issue with external functions in mysqlclient library. Do you think it is possible to link without mysqlclient.lib ?

Looking forward for reading you

Biobytes

Subject: Re: Error when compiling native MySql with MSC9

Posted by [mirek](#) on Wed, 09 Nov 2011 18:42:33 GMT

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BioBytes wrote on Wed, 09 November 2011 13:33 Thanks Mirek,

I added the path to opt/mysqlclient.lib directory in Build methods but I still get a linkage error:

Linking...

```
LIBCMTD.lib(crt0.obj) : error LNK2019: unresolved external symbol _main referenced in function  
__tmainCRTStartup
```

```
D:\Logiciels\Projets Ultimate\OutPrjs\Mes Projets\MSC9.Debug.Debug_Full.Mt\DirectDB.exe :  
fatal error LNK1120: 1 unresolved externals
```

There were errors. (0:13.43)

I guess there is some issue with external functions in mysqlclient library. Do you think it is possible to link without mysqlclient.lib ?

Looking forward for reading you

Biobytes

This actually looks like you do not have MAIN (either GUI_APP_MAIN or CONSOLE_APP_MAIN).

Mirek

Subject: Re: Error when compiling native MySql with MSC9

Posted by [BioBytes](#) on Wed, 09 Nov 2011 20:14:41 GMT

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Thanks Mirek,

I had path to opt/MySQLclient.lib directory in build methods but still a linkage error:

Linking...

```
LIBCMTD.lib(crt0.obj) : error LNK2019: unresolved external symbol _main referenced in function  
__tmainCRTStartup
```

```
D:\Logiciels\Projets Ultimate\OutPrjs\Mes Projets\MSC9.Debug.Debug_Full.Mt\DirectDB.exe :  
fatal error LNK1120: 1 unresolved externals
```

There were errors. (0:08.33)

It seems there is a problem with external calls in mysqlclient.lib

Do you think it is possible to link without mysqlclient library as suggested in some forums in which users try to solve LNK2019 error with MS compilers?

Waiting reading you

Biobytes

Subject: Re: Error when compiling native MySql with MSC9

Posted by [BioBytes](#) on Wed, 09 Nov 2011 20:42:13 GMT

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Mirek,

Sorry and confused for the following points:

First: double post (I did not see you reply so fast).

Second: I forgot to indicate in the package configuration that the project needs GUI MT and not MT alone.

Now no more linkage error but the application crashes. Please find hereafter the header, cpp and schema files;

Header:

```
#ifndef _DirectDB_DirectDB_h
#define _DirectDB_DirectDB_h
```

```
#include <CtrlLib/CtrlLib.h>
#include <MySql/MySql.h>
```

```
using namespace Upp;
```

```
#define LAYOUTFILE <DirectDB/DirectDB.lay>
#include <CtrlCore/lay.h>
```

```
#define IMAGEFILE <DirectDB/DirectDB.iml>
#include <Draw/iml_header.h>
```

```
#define SCHEMADIALECT <MySql/MySqlSchema.h>
#define MODEL <DirectDB/DirectDB.sch>
#include <Sql/sch_header.h>
```

```
SqlId TBLPROCS("PROCESSUS"),NAME("NAMEPROC"),CODE("CODEPROC");
```

```
class DirectDBWin : public WithDirectDBWinLayout<TopWindow> {
public:
    typedef DirectDBWin CLASSNAME;
    MySqlSession session;

    DirectDBWin();
};

#endif
```

Scheme file:

```
TABLE (OWNERS)
INT(IDOWNER)PRIMARY_KEY AUTO_INCREMENT
INT(IDPROCOWNER)
STRING_(OWNERNAME,200)
STRING_(OWNERFIRSTNAME,200)
STRING_(OWNERLOGON,20)
STRING_(OWNERSTATUS,1)
INT(IDPROC1)
INT(IDPROC2)
END_TABLE
```

```
TABLE (PROCESSUS)
INT(IDPROC)PRIMARY_KEY AUTO_INCREMENT
STRING_(CODEPROC,30)
STRING_(NAMEPROC,100)
END_TABLE
```

```
TABLE (SKILLS)
INT(IDSKILL)PRIMARY_KEY AUTO_INCREMENT
INT(IDPROCSKILL)
STRING_(SKILL,400)
INT(IDRANGE)
END_TABLE
```

```
TABLE (SKILLSLEVEL)
INT(IDLEVEL)PRIMARY_KEY AUTO_INCREMENT
INT(IDSKILLLEVEL)
INT(SKILLLEVEL)
STRING_(OPENAME,200)
STRING_(OPEFIRSTNAME,200)
```

```
STRING_(OPESHORTID,20)
END_TABLE
```

cpp file:

```
#include "DirectDB.h"
```

```
#define IMAGECLASS DirectDBImg
#define IMAGEFILE <DirectDB/DirectDB.img>
#include <Draw/iml.h>
```

```
#define SCHEMADIALECT <MySql/MySqlSchema.h>
#include <Sql/sch_source.h>
```

```
DirectDBWin::DirectDBWin()
{
    CtrlLayout(*this, "Window title");
    if(session.Connect("patrice", "patrice", "skillsdb", "127.0.0.1 ", 3306, NULL))
    {

        SQL *Select(CODE,NAME).From(TBLPROCS);

        while(SQL.Fetch())PromptOK(AsString(SQL[0])+" : "+AsString(SQL[1]));
    }

    else PanicMessageBox("Erreur", "Pas de connexion possible");
}

GUI_APP_MAIN
{
    SetLanguage(GetSystemLNG());
    SetLNGCharset(GetSystemLNG(),CHARSET_UTF8);

    DirectDBWin().Run();
}
```

Do you have any comments ? I have no idea of what is not working now.

Thank you again for your help

Biobytes

Subject: Re: Error when compiling native MySql with MSC9
Posted by [BioBytes](#) on Thu, 10 Nov 2011 21:02:40 GMT
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Hi Mirek,

With your help and suggestions, I succeeded to compile my demo project. I forgot to add "SQL = session" just after getting the connection.

```
#include "DirectDB.h"

#define IMAGECLASS DirectDBImg
#define IMAGEFILE <DirectDB/DirectDB.img>
#include <Draw/iml.h>

#define SCHEMADIALECT <MySql/MySqlSchema.h>
#include <Sql/sch_source.h>

DirectDBWin::DirectDBWin()
{
    CtrlLayout(*this, "Window title");
    if(session.Connect("alexandre","deming","skillsdb","127.0.0.1 ",3306,NULL))
    {

        SQL = session; (new line)

        try
        {
            SQL &Select(CODE,NAME).From(TBLPROCS);

            while(SQL.Fetch())PromptOK(AsString(SQL[0])+" : "+AsString(SQL[1]));
        }
        catch(SqlExc &ex)
        {
            PanicMessageBox(t_("Erreur MySql"),t_("L'erreur suivante s'est produite :")+ex.ToString());
            Close();
        }
    }

    else PanicMessageBox("Erreur","Pas de connexion possible");
}

GUI_APP_MAIN
{
    SetLanguage(GetSystemLNG());
    SetLNGCharset(GetSystemLNG(),CHARSET_UTF8);

    DirectDBWin().Run();
}
```

Really U++ is an amazing tool for C++ development.

I got some difficulties to link with MySQL library so I went through ODBC to by-pass use of native MySQL. Now all is working perfectly. So I would like to post some help for newbie probably facing the same problems.

Please consider this topic closed.

Thanks again for your help

Regards
Biobytes
