Subject: Cannot compile MYSQL project
Posted by forlano on Sun, 19 Jan 2020 14:20:14 GMT
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Hello,

I have a project linked with the MySql library in windows and works as expected.
Now I need to port it under MaC OSX (Mojave).

I have installed the library and set the path but it keep saying
error: unknown type name 'MYSQL'
and many other similar error.

What am I missing? I have even set the flag .MYSQLDLL but I am not sure it should appear under
Mac.

Thanks,
Luigi

Subject: Re: Cannot compile MYSQL project
Posted by forlano on Wed, 22 Jan 2020 11:01:21 GMT
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The same package compiled and run without problems under Linux (ubuntu 18.10). No need of
.MYSQLDLL flag.
On Mac I have followed many discussion about mysql and installed several library but none
solved the problem.

Luigi

Subject: Re: Cannot compile MYSQL project
Posted by mirek on Thu, 23 Jan 2020 07:35:55 GMT
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That sounds like mysql.h does not get included.

Check MySql/MySql.h

#ifndef __mysql_h__
#define __mysql_h__

// debian: sudo apt-get install libmysqlclient-dev

```
#ifndef flagNOMYSQL

#include <Sql/Sql.h>

#ifdef PLATFORM_WIN32
#ifndef IPPROTO_IP
#include <winsock2.h>
#endif
#include <MySql.h>
#endif

#ifdef PLATFORM_POSIX
#include <mysql/mysql.h>
#endif
```

Perhaps PLATFORM_POSIX is not defined? You can check by removing that last PLATFORM_POSIX....

Is there any guide you have used to install mysql? (I would like to follow it to resolve this issue... :)

Mirek

Subject: Re: Cannot compile MYSQL project
Posted by forlano on Thu, 23 Jan 2020 16:39:33 GMT
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Hello Mirek,

thanks for the reply.
I already tried to remove the PLATFORM_POSIX but no success.

This is the full error message:

```
 /Users/mac/upp.src/uppsrc/mysql/mysql.h (18): warning: non-portable path to file
'<MySql/MySql.h>'; specified path differs in case from file name on disk
[-Wnonportable-include-path]
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (1): In file included from
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp:1:
 (): #include  < mysql/mysql.h>
 (): <MySql/MySql.h>
/Users/mac/upp.src/uppsrc/mysql/mysql.h (46): error: unknown type name 'MYSQL'
/Users/mac/upp.src/uppsrc/mysql/mysql.h (75): error: unknown type name 'MYSQL'
/Users/mac/upp.src/uppsrc/mysql/mysql.h (68): error: use of undeclared identifier 'MYSQL_PORT'
/Users/mac/upp.src/uppsrc/mysql/mysql.h (84): error: cannot initialize object parameter of type
'Upp::SqlSession' with an expression of type 'Upp::MySqlSession'
```

/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (24): error: unknown type name 'MYSQL'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (26): error: unknown type name 'MYSQL_RES'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (27): error: unknown type name 'MYSQL_ROW'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (39): error: unknown type name 'MYSQL'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (50): error: use of undeclared identifier 'mysql_library_init'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (54): error: use of undeclared identifier 'mysql_library_end'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (59): error: expected expression
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (59): error: use of undeclared identifier 'MYSQL'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (64): error: no matching constructor for initialization of 'Upp::Sql'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (103): error: use of undeclared identifier 'MYSQL_PORT'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (142): error: cannot initialize object parameter of type 'Upp::SqlSession' with an expression of type 'Upp::MySqlSession'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (172): error: out-of-line definition of 'Begin' does not match any declaration in 'Upp::MySqlSession'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (216): error: no matching constructor for initialization of 'Upp::Sql'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (225): error: no matching constructor for initialization of 'Upp::Sql'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (234): error: no matching constructor for initialization of 'Upp::Sql'

You get the same if you try to compile the mysql package test case coming with U++.

Googling on internet I did several things (there is no unanimous agreement)

1) upgrade brew

brew update --verbose

it may takes some minute to upgrade everything (at least on my Mac mini)

2) installed several libraries, one by one because each of them didn't work

brew install mysql-connector-cc
brew install mysql-connector-c
brew install mysql-client

At the end I had a MYSQL folder in
/usr/local/Cellar/mysql
/usr/local/Cellar/mysql-client
/usr/local/Cellar/mysql-connector-c++
/usr/local/opt/mysql

each one with their include and lib folder.

I tried to point theide in all includes but with no luck.
I hope this info can be useful.

thanks,
Luigi

Subject: Re: Cannot compile MYSQL project
Posted by mirek on Thu, 23 Jan 2020 17:31:53 GMT

forlano wrote on Thu, 23 January 2020 17:39Hello Mirek,

thanks for the reply.
I already tried to remove the PLATFORM_POSIX but no success.

This is the full error message:

 /Users/mac/upp.src/uppsrc/mysql/mysql.h (18): warning: non-portable path to file
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 (): #include < mysql/mysql.h>
 (): <MySql/MySql.h>
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/Users/mac/upp.src/uppsrc/mysql/mysql.h (68): error: use of undeclared identifier 'MYSQL_PORT'
/Users/mac/upp.src/uppsrc/mysql/mysql.h (84): error: cannot initialize object parameter of type
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/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (27): error: unknown type name 'MYSQL_ROW'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (39): error: unknown type name 'MYSQL'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (50): error: use of undeclared identifier
'mysql_library_init'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (54): error: use of undeclared identifier
'mysql_library_end'
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (59): error: expected expression
/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (59): error: use of undeclared identifier 'MYSQL'
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each one with their include and lib folder.
I tried to point theide in all includes but with no luck.
I hope this info can be useful.

thanks,
Luigi

I think that clang cannot find the right include and for that reason replaces it with a wrong one.

What are your include paths in the build method? I bet it will be one level off. Include paths must at some point pick mysql/mysql.h from the client library you have installed.

Mirek

Subject: Re: Cannot compile MYSQL project
Posted by forlano on Thu, 23 Jan 2020 22:12:26 GMT

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mirek wrote on Thu, 23 January 2020 18:31

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What are your include paths in the build method? I bet it will be one level off. Include paths must at some point pick mysql/mysql.h from the client library you have installed.

Mirek

I thought the same and tried several time. I tried once more at several folder level to help clang to locate the mysql.h. Here is my include

The marked row is where I see a mysql.h file. In both opt and cellar seems to be the same files.

Luigi

File Attachments
1) Schermata 2020-01-23 alle 23.06.01.jpg, downloaded 717 times

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Subject: Re: Cannot compile MYSQL project
Posted by mirek on Fri, 24 Jan 2020 08:09:23 GMT

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forlano wrote on Thu, 23 January 2020 23:12mirek wrote on Thu, 23 January 2020 18:31

I think that clang cannot find the right include and for that reason replaces it with a wrong one.

What are your include paths in the build method? I bet it will be one level off. Include paths must at some point pick mysql/mysql.h from the client library you have installed.

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I thought the same and tried several time. I tried once more at several folder level to help clang to locate the mysql.h. Here is my include

The marked row is where I see a mysql.h file. In both opt and cellar seems to be the same files.

Luigi

IMO should be /usr/local/opt/mysql/include

(The include is <mysql/mysql.h> so the include path must be relative to it)

Mirek

Subject: Re: Cannot compile MYSQL project
Posted by forlano on Fri, 24 Jan 2020 18:51:00 GMT
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mirek wrote on Fri, 24 January 2020 09:09
IMO should be /usr/local/opt/mysql/include

(The include is <mysql/mysql.h> so the include path must be relative to it)

Mirek

I tried but without success :? .
This task is beyond my capability. I do not know if I missed the correct library or there is
something wrong in some flag.

Thanks,
Luigi

Subject: Re: Cannot compile MYSQL project
Posted by mirek on Wed, 29 Jan 2020 13:05:34 GMT
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This was tricky one.

The problem is that CLANG treats include files case insensitive. Thus <mysql/mysql.h> in fact
included the package's MySql.h recursively...

I have fixed it by redoing the code to:

```
#ifdef PLATFORM_POSIX
#ifdef PLATFORM_OSX
#include <mysql.h>
#else
#include <mysql/mysql.h>
```

#endif
#endif

so with MacOS you will need to point to inside that mysql folder. Not nice, but for now it will do.

Mirek

Subject: Re: Cannot compile MYSQL project
Posted by forlano on Wed, 29 Jan 2020 22:14:34 GMT
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mirek wrote on Wed, 29 January 2020 14:05This was tricky one.

The problem is that CLANG treats include files case insensitive. Thus <mysql/mysql.h> in fact included the package's MySql.h recursively...

I have fixed it by redoing the code to:

#ifdef PLATFORM_POSIX
#ifdef PLATFORM_OSX
#include <mysql.h>
#else
#include <mysql/mysql.h>
#endif
#endif

so with MacOS you will need to point to inside that mysql folder. Not nice, but for now it will do.

Mirek

Thank you very much!
Now I was able to overcome the include problem... but unfortunately I stopped again at the lib. Below are the new complains.

Can I ask you which library you have installed and where point your path lib? I tried with all the library I have but nothing happened. Perhaps I need to set some flag or compiler option.

Luigi

Undefined symbols for architecture x86_64:
  "_mysql_affected_rows", referenced from:
      Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
  "_mysql_close", referenced from:

Upp::MySqlSession::DoConnect() in MySql.a(MySql.o)
        Upp::MySqlSession::Close() in MySql.a(MySql.o)
        Upp::MySqlSession::Reconnect() in MySql.a(MySql.o)
        Upp::MySqlSession::~MySqlSession() in MySql.a(MySql.o)
  "_mysql_errno", referenced from:
        Upp::MySqlSession::DoConnect() in MySql.a(MySql.o)
        Upp::MySqlSession::MysqlQuery(char const*) in MySql.a(MySql.o)
  "_mysql_error", referenced from:
        Upp::MySqlSession::DoConnect() in MySql.a(MySql.o)
        Upp::MySqlSession::MysqlQuery(char const*) in MySql.a(MySql.o)
  "_mysql_fetch_field_direct", referenced from:
        Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
  "_mysql_fetch_lengths", referenced from:
        Upp::MySqlConnection::Fetch() in MySql.a(MySql.o)
  "_mysql_fetch_row", referenced from:
        Upp::MySqlConnection::Fetch() in MySql.a(MySql.o)
  "_mysql_free_result", referenced from:
        Upp::MySqlConnection::Fetch() in MySql.a(MySql.o)
        Upp::MySqlConnection::FreeResult() in MySql.a(MySql.o)
        Upp::MySqlConnection::Cancel() in MySql.a(MySql.o)
  "_mysql_init", referenced from:
        Upp::MySqlSession::DoConnect() in MySql.a(MySql.o)
  "_mysql_insert_id", referenced from:
        Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
  "_mysql_more_results", referenced from:
        Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
  "_mysql_next_result", referenced from:
        Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
  "_mysql_num_fields", referenced from:
        Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
  "_mysql_query", referenced from:
        Upp::MySqlSession::MysqlQuery(char const*) in MySql.a(MySql.o)
  "_mysql_real_connect", referenced from:
        Upp::MySqlSession::DoConnect() in MySql.a(MySql.o)
  "_mysql_real_escape_string", referenced from:
        Upp::MySqlConnection::EscapeString(Upp::String const&) in MySql.a(MySql.o)
  "_mysql_server_end", referenced from:
        Upp::s__s53_fn() in MySql.a(MySql.o)
  "_mysql_server_init", referenced from:
        __GLOBAL__sub_I_MySql.cpp in MySql.a(MySql.o)
  "_mysql_set_character_set", referenced from:
        Upp::MySqlSession::DoConnect() in MySql.a(MySql.o)
  "_mysql_store_result", referenced from:
        Upp::MySqlConnection::Execute() in MySql.a(MySql.o)
ld: symbol(s) not found for architecture x86_64
clang: error: linker command failed with exit code 1 (use -v to see invocation)

Subject: Re: Cannot compile MYSQL project
Posted by mirek on Fri, 31 Jan 2020 13:16:11 GMT
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It was a problem in MySql package, missing OSX libraries requirement...

Fixed in trunk.

Subject: Re: Cannot compile MYSQL project
Posted by forlano on Fri, 31 Jan 2020 19:48:54 GMT
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mirek wrote on Fri, 31 January 2020 14:16It was a problem in MySql package, missing OSX libraries requirement...

Fixed in trunk.

It works!
Thanks a lot!

Luigi