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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

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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

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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

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Subject: Re: Cannot compile MYSQL project  
Posted by [forlano](#) on Thu, 23 Jan 2020 16:39:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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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

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Subject: Re: Cannot compile MYSQL project  
Posted by [mirek](#) on Thu, 23 Jan 2020 17:31:53 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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

thanks for the reply.  
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This is the full error message:

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(): #include <mysql/mysql.h>
(): <MySql/MySql.h>
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/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (54): error: use of undeclared identifier
'mysql_library_end'
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/Users/mac/upp.src/uppsrc/MySql/MySql.cpp (225): error: no matching constructor for initialization
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/usr/local/opt/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

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Subject: Re: Cannot compile MYSQL project  
Posted by [forlano](#) on Thu, 23 Jan 2020 22:12:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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mirek 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.

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

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#### File Attachments

1) [Schermata 2020-01-23 alle 23.06.01.jpg](#), downloaded 470 times

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Subject: Re: Cannot compile MYSQL project  
Posted by [mirek](#) on Fri, 24 Jan 2020 08:09:23 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

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.

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

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

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

Mirek

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Subject: Re: Cannot compile MYSQL project  
Posted by [forlano](#) on Fri, 24 Jan 2020 18:51:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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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

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Subject: Re: Cannot compile MYSQL project  
Posted by [mirek](#) on Wed, 29 Jan 2020 13:05:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

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
#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

---

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Subject: Re: Cannot compile MYSQL project  
Posted by [forlano](#) on Wed, 29 Jan 2020 22:14:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

mirek wrote on Wed, 29 January 2020 14:05 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

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

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```
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)

```

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Subject: Re: Cannot compile MYSQL project  
Posted by [mirek](#) on Fri, 31 Jan 2020 13:16:11 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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It was a problem in MySql package, missing OSX libraries requirement...

Fixed in trunk.

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Subject: Re: Cannot compile MYSQL project  
Posted by [forlano](#) on Fri, 31 Jan 2020 19:48:54 GMT  
[View Forum Message](#) <> [Reply to Message](#)

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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

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