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Subject: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Wed, 07 May 2008 14:44:44 GMT  
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Hi, total newbie here. I'm trying to learn how easy it is to interface to a PostgreSQL database from U++.

I've installed 2008.1Beta2. I'm trying to run the example code for accessing a PostgreSQL database as shown here:

[http://www.ultimatepp.org/reference\\$SQL\\_PostgreSql.html](http://www.ultimatepp.org/reference$SQL_PostgreSql.html)

But I'm getting this:

```
----- PostgresExample ( MAIN GCC DEBUG DEBUG_FULL BLITZ WIN32 )
Postgres.cpp
In file included from C:\Projects\upp\PostgresExample\Postgres.h:13,
      from C:\Projects\upp\PostgresExample\Postgres.cpp:1:
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:8:22: error: libpq-fe.h: No such file or directory
In file included from C:\Projects\upp\PostgresExample\Postgres.h:13,
      from C:\Projects\upp\PostgresExample\Postgres.cpp:1:
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:52: error: ISO C++ forbids declaration of 'PGconn' with
no type
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:52: error: expected ';' before '*' token
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:53: error: ISO C++ forbids declaration of 'PGresult' with
no type
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:53: error: expected ';' before '*' token
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:66: error: expected type-specifier before 'PGconn'
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:75: error: ISO C++ forbids declaration of 'PGconn' with
no type
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:75: error: expected ';' before '*' token
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:76: error: expected `;' before '}' token
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h: In member function 'virtual bool
Upp::PostgreSQLSession::IsOpen() const':
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:35: error: 'conn' was not declared in this scope
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h: In member function 'Upp::String
Upp::PostgreSQLSession::GetUser()':
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:65: error: 'conn' was not declared in this scope
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:65: error: 'PQuser' was not declared in this scope
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h: In constructor
'Upp::PostgreSQLSession::PostgreSQLSession()':
C:\upp\uppsrc\PostgreSQL\PostgreSQL.h:73: error: 'conn' was not declared in this scope
C:\Projects\upp\PostgresExample\Postgres.cpp: In member function 'bool
PostgreSQLTest::OpenDB()':
C:\Projects\upp\PostgresExample\Postgres.cpp:64: error: 'POSTGRESS' was not declared in this
scope
PostgresExample: 1 file(s) built in (0:08.18), 8188 msec / file, duration = 8235 msec
```

There were errors. (0:08.25)

I don't have a libpq-fe.h file and some of the other errors seem to be within the upp sources. Is there a more recent version of this example code or can someone get me pointed in the right direction? Thanks.

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [mirek](#) on Wed, 07 May 2008 14:55:14 GMT  
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Well, you must actually have postgresql installed and add paths to its include and lib directories in Setup/Build methods.

Mirek

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Wed, 07 May 2008 20:36:23 GMT  
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Thanks.

I got Postgres re-installed with headers and libs. So I'm down to this:

```
Postgres.cpp  
C:\projects\upp\PostgresExample\Postgres.cpp: In member function 'bool  
PostgreSQLTest::OpenDB()':  
C:\projects\upp\PostgresExample\Postgres.cpp:34: error: 'POSTGRESS' was not declared in this  
scope
```

Comes from this line:  
SqlSchema sch(POSTGRESS);

I thought it might be a typo so I tried it as POSTGRES with no luck.

What is POSTGRESS and where do I find it?

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [mirek](#) on Wed, 07 May 2008 20:56:39 GMT  
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I am sorry, it is a bug in example. It should be PGSQL instead of POSTGRESS.

Mirek

Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Wed, 07 May 2008 21:23:05 GMT  
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Thanks. Making progress.

Now this:  
Linking...  
(option '-O 2' ignored)  
Target machine: I386  
File 'libpq.a' not found.

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [bytefield](#) on Wed, 07 May 2008 21:45:22 GMT  
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Well, guess you have installed a PSQL library for MSVC compiler and trying to use it with MinGW . There is a difference between MinGW and MSVC library files, MSVC use \*.lib and MinGW use \*.a for extensions. Or maybe you set the wrong folders path, if lib cannot be found. For option '-O 2' it should be -O2, but it doesn't matter here, unless you want optimisation.

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Thu, 08 May 2008 00:09:04 GMT  
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bytefield wrote on Wed, 07 May 2008 16:45Well, guess you have installed a PSQL library for MSVC compiler and trying to use it with MinGW . There is a difference between MinGW and MSVC library files, MSVC use \*.lib and MinGW use \*.a for extensions.  
Bleah. That's a fine kettle of fish.

I used the Win32 installer from Postgresql.org and I think it's built using MSVC so I suppose that makes sense. And I seem to have no .a files anywhere on my system. Now I guess I'll have to install MSVC. Woe is me.

bytefield wrote on Wed, 07 May 2008 16:45For option '-O 2' it should be -O2, but it doesn't matter here, unless you want optimisation.  
I didn't enter that option anywhere. And I don't see it in Setup/Build methods. I should probably enter it as a bug.

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Thu, 08 May 2008 15:02:46 GMT  
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I've installed MSVC Express 2005. Now I'm getting this:

C:\upp\uppsrc\Core/Core.h(316) : fatal error C1083: Cannot open include file: 'windef.h': No such file or directory  
MenuItem.cpp

Does this mean I need the Platform SDK or Windows SDK?

If so, does anyone know of a download link. I'm on W2k at the moment.

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Thu, 08 May 2008 15:56:09 GMT

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Answered my own question. Finally found a download link at MS that actually worked and got enough of it to have the windef.h file.

Now I'm getting this:

Linking...

LINK : fatal error LNK1104: cannot open file 'ms\libpq.lib'

I have 'libpq.lib' but it's in 'C:\Program Files\PostgreSQL\8.3\lib' where the PG installer put it. There is no 'ms' to be found anywhere in that tree.

Any help?

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [zsolt](#) on Thu, 08 May 2008 19:24:45 GMT

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Interesting, maybe they changed the location of that file...

In Package Organizer change PostgreSQL's library config (remove "ms").

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Thu, 08 May 2008 21:06:33 GMT

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Thanks. Well, I've worked my way up to runtime errors...

SQL\_PostgreSql.exe - Ordinal Not Found

The ordinal 284 could not be located in the dynamic link library SSLEAY32.dll.

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Google found lots of references to this problem having something relation to SSL connection to PG. But no resolutions.

Note that I have no less than 17 copies of SSLEAY32.dll on my system with almost none of them appearing to be the same version.

Any help appreciated!

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [zsolt](#) on Thu, 08 May 2008 21:41:01 GMT

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Maybe you can try PostgreSQL-8.2.  
I'm using it without any problems.

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Subject: Re: Newbie help with PostgreSQL example  
Posted by [Rottweiler](#) on Sun, 11 May 2008 23:32:20 GMT

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zsolt wrote on Thu, 08 May 2008 16:41 Maybe you can try PostgreSQL-8.2.  
I'm using it without any problems.

Thanks. I'm now building it against 8.2 using MSVC2005 and getting this during the link step:

Linking...

```
Postgres.obj : error LNK2019: unresolved external symbol "public: class Upp::ArrayCtrl::Column & __thiscall U
```

```
pp::ArrayCtrl::AddColumn(class Upp::Id,char const *,int)"
```

```
(?AddColumn@ArrayCtrl@Upp@@@QAEAAVColumn@12@VId@
```

```
2@PBDH@Z) referenced in function "public: __thiscall PostgreSQLTest::PostgreSQLTest(void)"
```

```
(??0PostgreSQL
```

```
Test@@QAE@XZ)
```

```
Postgres.obj : error LNK2001: unresolved external symbol "public: virtual void __thiscall
```

```
Upp::Ctrl::NcCreate
```

```
(struct HWND__*)" (?NcCreate@Ctrl@Upp@@@UAEXPAUHWND__@@@Z)
```

```
Postgres.obj : error LNK2001: unresolved external symbol "public: virtual void __thiscall
```

```
Upp::Ctrl::NcDestro
```

```
y(void)" (?NcDestroy@Ctrl@Upp@@@UAEXXZ)
```

There's about 115 messages like that.

Any ideas.

Subject: Re: Newbie help with PostgreSQL example  
Posted by [zsolt](#) on Mon, 12 May 2008 10:12:17 GMT  
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I think, this is a very simple problem, indicating, that you have to add CtrlLib to your main package.

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