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

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() cons
 t':
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 msecs / file, duration = 8235 msecs
```

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.

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

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?

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.

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.

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.

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.

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?

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\").

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.

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!

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.

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 16:41Maybe 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.