

Exiv2 - Patch #1012

Avoid cyclic inclusion dependency between http.hpp and exiv2.hpp

30 Dec 2014 20:39 - Thomas Beutlich

Status:	Closed	Start date:	30 Dec 2014
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	build	Estimated time:	0.00 hour
Target version:	0.25		
Description			
The attached patch avoids the cyclic inclusion dependency between http.hpp and exiv2.hpp.			
Related issues:			
Related to Exiv2 - Bug #936: Video headers include internal include files and...		Closed	02 Dec 2013

Associated revisions

Revision 3508 - 02 Jan 2015 09:05 - Robin Mills

#1012. Thank you, Thomas, for reporting this a providing the patch.

Revision 3510 - 02 Jan 2015 09:49 - Robin Mills

#1012. r3508 broke the build on macosx and linux.
Fixed cosmetic issues in samples/httpstest.cpp and <exiv2dir>/Makefile.

Revision 3511 - 03 Jan 2015 10:18 - Robin Mills

#1012. Thank You, Thomas for the patch.

Revision 3514 - 06 Jan 2015 13:14 - Robin Mills

#1012. Correction to r3513 for msvc2005/metacopy to respect new location of utils.hpp

Revision 3515 - 06 Jan 2015 15:16 - Robin Mills

#1012: more fixes to r3513. Fix msvc2005/metacopy and msvc2005/path-test to respect changed location of utils.hpp

Revision 3516 - 06 Jan 2015 15:34 - Robin Mills

#1012. Yet more fixes in . See r3513

Revision 3517 - 06 Jan 2015 16:05 - Robin Mills

#1012. Yet more fixes to path-test.vcproj. See r3513.

History

#1 - 31 Dec 2014 12:10 - Robin Mills

- *Category set to build*
- *Status changed from New to Assigned*
- *Assignee set to Robin Mills*

Thanks, Thomas. I'm sitting by a swimming pool on vacation in Tenerife, Spain. I'll add your patch when I get a better internet connection or get home next week. Happy New Year.

It is very helpful for you to find and identify matters such as this. Although the build server validates every commit on the trunk, I am currently building with MSVC 2005 on Windows + GCC 4.8.2 (Cygwin, MinGW, Linux) + Clang 600.0.56) on Mac. On my TODO list is for the build server to support MSVC 2008/10/12 and to building with CMake. CMake is working on Cygwin, Linux and Mac). However the build server does not use CMake at this time.

When you report a bug, may I ask you to let me know your build tools (compiler, platform). In this case, this issue is independent of the tools in use - however it's usually very relevant.

#2 - 02 Jan 2015 14:58 - Robin Mills

- *Status changed from Assigned to Resolved*

Fix submitted: [r3508](#) and [r3510](#). Thanks to Thomas for reporting this and providing the patch.

Curiously, Thomas' fix broke the build on Linux and Mac. However, thanks to having a build server, this was discovered effortlessly and easily fixed.

#3 - 02 Jan 2015 19:23 - Thomas Beutlich

- File [http_2.patch](#) added

- Status changed from Resolved to Feedback

Whereas [r3508](#) successfully works on my VS 2010 IDE it fails after updating to [r3510](#).

```
1>----- Build started: Project: exiv2lib, Configuration: Release Win32 -----
1>  basicio.cpp
1>C:\Projects\exiv2\include\exiv2\http.hpp(8): fatal error C1083: Cannot open include file: 'exiv2/exiv2.hpp':
  No such file or directory
1>  http.cpp
1>C:\Projects\exiv2\include\exiv2\http.hpp(8): fatal error C1083: Cannot open include file: 'exiv2/exiv2.hpp':
  No such file or directory
1>  version.cpp
1>C:\Projects\exiv2\include\exiv2\http.hpp(8): fatal error C1083: Cannot open include file: 'exiv2/exiv2.hpp':
  No such file or directory
===== Build: 0 succeeded, 1 failed, 0 up-to-date, 0 skipped =====
```

The reason is the same as the original bug report. `http.hpp` is the only header that has an include directive of kind `#include <exiv2/foo.hpp>`, i.e. with angle brackets and `exiv2` in the namespace. Also `http.hpp` includes `exiv2.hpp` and vice versa which is not clean programming. Attached is a second patch `http_2` which solves both problems. Please double-check if it runs on other build environments.

#4 - 03 Jan 2015 10:43 - Robin Mills

- Status changed from Feedback to Resolved

Submitted [r3511](#). Thank You, Thomas for the patch.

Please check build #1807 on the build server. (MSVC 2005 + Mac (clang) and GCC (Linux, MinGW, Cygwin).

<http://exiv2.dyndns.org:8080/job/Exiv2-trunk/1807/>

Build #1806 failed on Cygwin/MSVC/MinGW because the Windows build machine had dropped dead for unknown reasons. I reboot the build server and build 1807 seems to be building normally.

Please test the `msvc2005` build environment with Visual Studio 2010. I haven't had time to install and test this yet on the build machine. Differences between your build and environment are causing me additional/unexpected work.

#5 - 03 Jan 2015 18:54 - Thomas Beutlich

Thanks, it is fine for me now.

#6 - 06 Jan 2015 16:12 - Robin Mills

[r3513](#). Regrettably the SVN log mentions [#1004](#) instead of [#1012](#).

[r3514](#) Corrections to [r3513](#)

I have reviewed all `#include` directives in `src/*.cpp` and `samples/*.cpp` and made them consistent. Library (`src/*.cpp`) code never uses `<exiv2/exiv2.hpp>`. Sample code (`samples/*.cpp`) only uses `<exiv2/exiv2.hpp>` and some local includes (`utils.hpp` and `exiv2app.hpp`) which have been moved to `src`. `utils.hpp` and `exiv2app.hpp` are not part of the library and should not be public. Builds OK:

<http://exiv2.dyndns.org:8080/job/Exiv2-trunk/1817/>

Please verify that I have not broken your private MSVC build environment. I have relocated `include/exiv2/utils.hpp` -> `src/utils.hpp`

#7 - 06 Jan 2015 19:45 - Thomas Beutlich

Robin Mills wrote:

[r3513](#). Regrettably the SVN log mentions [#1004](#) instead of [#1012](#).

You may try if you are allowed to post-edit the SVN commit message. Admin could provide the corresponding rights for it.

Please verify that I have not broken your private MSVC build environment. I have relocated `include/exiv2/utils.hpp` -> `src/utils.hpp`

Yes, it is working as expected (and cyclic header dependency is still gone.) Well done!

#8 - 07 Jan 2015 10:36 - Robin Mills

Good. That's fine. I'll deal with the other stuff today. It's nice to be home and properly connected to the internet. The weather - oh well - the weather in England is always wet in winter.

I tried to edit the svn commit log and got an errors about "log editing not enabled". There's nothing I can do about that as I don't have an account on exiv2.org. I could raise a bug report about this, however I won't.

Thanks for the issues you detected with cppcheck. The Exiv2 project agreed to regularly scan our code with Coverity in 2015. Mahesh has the assignment. For sure eliminating all compiler warnings, all static analysis warnings and making our test suite more robust are all very worthwhile tasks to make our code strong and robust.

#9 - 08 May 2015 16:17 - Robin Mills

- % Done changed from 0 to 100

#10 - 21 Jun 2015 16:39 - Andreas Huggel

- Status changed from Resolved to Closed

Files

http.patch	534 Bytes	30 Dec 2014	Thomas Beutlich
http_2.patch	1.03 KB	02 Jan 2015	Thomas Beutlich