

## Exiv2 - Patch #853

### CMake: more flexible zlib detection

06 Oct 2012 05:38 - Daniel Kaneider

<b>Status:</b>	Closed	<b>Start date:</b>	06 Oct 2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	90%
<b>Category:</b>	build	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.24		
<b>Description</b>			
Hi,			
the zLib path is pretty hard-coded into cmake, although the FindZLib would consider more options. Especially I don't want to relay on a directory 'zlib-1.2.7', since we link various libraries against zlib and are already using the 1.2.7.1 version.			
Therefore my patch uses the cmake strategy to find zlib, and as a fall-back the old zlib path is used. In this way I can call CMake on the exiv2 project by calling for e.g.:			
<pre>cmake.exe -G "Visual Studio 11 Win64" -DZLIB_ROOT=..\zlib-1.2.7-dev;..\zlib-1.2.7-dev\Release .</pre>			
The script was tested with in-source exiv2 build on Win8, VS 2012 and CMake 2.8.9. Btw. the applied patch is against the 2890 svn version.			
Best, Daniel			

#### Associated revisions

##### Revision 2893 - 06 Oct 2012 14:49 - Robin Mills

Fix. Issue: #853. More flexible way to detect and use existing Zlib libraries. Thanks Daniel for providing this patch.

#### History

##### #1 - 06 Oct 2012 06:00 - Robin Mills

- Status changed from New to Assigned
- Assignee set to Robin Mills
- Priority changed from High to Normal

Thank you very much indeed for this. And for the patch on [#851](#).

It is very helpful indeed that you provide a solution for the issue that you have encountered. I'm still learning CMake and rather puzzled by FIND\_LIBRARY on Windows.

You'll notice that in TODO-CMAKE, I've listed "Revisit searching for zlib, expat and iconv". I think you're pointing me in the right direction. In README-CMAKE, Gilles said "Use them only if you're prepared to fix them.". That's exactly what you've done and I appreciate your contribution.

I'll review this later in the weekend and submit.

If you have other thoughts and ideas about our CMake support, I will be very happy to accept your assistance and acknowledge your contribution.

##### #2 - 06 Oct 2012 23:23 - Robin Mills

I've make 3 commits today for your fixes for [#844](#), [#852](#) and [#853](#). Thank you for your contribution. I've also built the code with CMake on Linux/Mac/Cygwin and they all built and pass the test suite. So your fixes and suggestions have not caused issues to appear on non-MSVC builds.

I also used CMake to build on DevStudio 2010 Win64 and that didn't work. I haven't thought about MSVC/CMake since June, and it's time to give this more attention. From your comments, I believe you have MSVC/CMake working OK with DevStudio/2012. I will investigate the issues I encountered during this next week. It could be simply that I haven't followed my own instructions!

Thank you once more for taking the time to bring this to my attention and for providing patches. Your contribution is appreciated.

##### #3 - 07 Oct 2012 02:39 - Daniel Kaneider

Thanks for your fast response!

CMake is quite a good tool, especially for Unix based systems. On Windows still many things don't work as smoothly as expected.

With the current exiv2 version I get the exiv2 and exiv2lib sub-projects compiled, with a bunch of errors. This means I get various .exe, .lib and .dll files, but some post-build events give some errors. I'm satisfied with that result, getting my files I need, but you are right. It doesn't work as it should. The current point for MSVC is that no tests build. IMHO the testsuite might build and run on Linux, but it's not done correctly. I've already seen the source of this problems, but those might require bigger patches...

Since Windows is very strict regarding C++, from my experience it is the first platform to break compilation.

#### **#4 - 13 Oct 2012 23:13 - Robin Mills**

- *Status changed from Assigned to Resolved*

- *% Done changed from 0 to 90*

Daniel

Thanks again for all your splendid work on CMake/msvc. I'm going to mark this matter as resolved. Unless something arises from this, it'll be marked closed when at the end of the 0.24 development cycle.

#### **#5 - 24 Jul 2013 15:21 - Robin Mills**

- *Status changed from Resolved to Closed*

Fixed in 0.24.

#### **Files**

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exiv2FlexZlib.patch	1.6 KB	06 Oct 2012	Daniel Kaneider
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