

## Exiv2 - Bug #857

### CMake compilation issue on MacOS-X 4.5.1/Mountain Lion

07 Oct 2012 11:30 - Robin Mills

<b>Status:</b>	Closed	<b>Start date:</b>	07 Oct 2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Robin Mills	<b>% Done:</b>	100%
<b>Category:</b>	build	<b>Estimated time:</b>	1.00 hour
<b>Target version:</b>	0.25		
<b>Description</b>			
There's a strange compilation warning with CMake/Makefiles on Mountain Lion. exiv2 built this way passes the test suite. So the issue is ugly and benign.			
<pre>162 rmills@clanmills:~/gnu/exiv2/testbuild \$ xcodebuild -version Xcode 4.5.1 Build version 4G1004 163 rmills@clanmills:~/gnu/exiv2/testbuild \$ sw_vers ProductName:    Mac OS X ProductVersion: 10.8.2 BuildVersion:  12C60 164 rmills@clanmills:~/gnu/exiv2/testbuild \$</pre>			
<b>To reproduce:</b>			
<pre>\$ cd &lt;exiv2&gt; \$ mkdir build ; cd build; cmake .. ; make  ... rattle'n'roll  [ 1%] Building CXX object xmpsdk/CMakeFiles/xmp.dir/src/ExpatAdapter.cpp.o [ 2%] Building CXX object xmpsdk/CMakeFiles/xmp.dir/src/MD5.cpp.o /Users/rmills/gnu/exiv2/testbuild/xmpsdk/src/MD5.cpp:133:24: warning: 'memset' call operates on objects of type 'struct MD5_CTX' while     the size is based on a different type 'struct MD5_CTX *' [-Wsizeof-pointer-memaccess]     memset(ctx, 0, sizeof(ctx)); /* In case it's sensitive */     ~~~     ^~~ /Users/rmills/gnu/exiv2/testbuild/xmpsdk/src/MD5.cpp:133:24: note: did you mean to dereference the argument to 'sizeof'     (and multiply it by the number of elements)?     memset(ctx, 0, sizeof(ctx)); /* In case it's sensitive */     ~~~     ^~~ 1 warning generated.</pre>			
Oddly this doesn't appear with the autotools build. \$ make config ; ./configure ; make			
There must be something different about the compilation options/search path generated by CMake. The command \$ make VERBOSE=1 will echo the commands being executed by CMake builds.			
<b>Related issues:</b>			
Related to Exiv2 - Bug #859: Compilation warning using Clang		<b>Closed</b>	<b>11 Oct 2012</b>
Related to Exiv2 - Bug #920: Cross compiling for Android on OSX is keep using...		<b>Closed</b>	<b>22 Sep 2013</b>
Related to Exiv2 - Bug #1131: Please explain the RCSID macro at the start of ...		<b>Closed</b>	<b>25 Oct 2015</b>

#### Associated revisions

##### Revision 2904 - 13 Oct 2012 22:50 - Robin Mills

Fix: Bug #857. Get CMake to compile with g++ instead of c++ (clang) compiler to eliminate warnings.

##### Revision 2906 - 14 Oct 2012 14:22 - Robin Mills



- Target version changed from 0.24 to 0.25

Deferred to 0.25.

**#8 - 07 Oct 2014 20:00 - Robin Mills**

- Status changed from Assigned to Resolved

I'm going to mark this as "resolved" as we are build without these warning using cmake and ./configure on the current mac platform (10.9.5/Xcode6).

**#9 - 08 May 2015 16:39 - Robin Mills**

- % Done changed from 90 to 100

**#10 - 21 Jun 2015 16:42 - Andreas Huggel**

- Status changed from Resolved to Closed