

Exiv2 - Bug #1150

Unable to build for Mac OSX 10.6

09 Jan 2016 16:32 - Max Pozdeev

Status:	Closed	Start date:	09 Jan 2016
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	build	Estimated time:	2.00 hours
Target version:	0.26		
Description			
<p>I can not build the library from latest revision for the Mac OSX 10.6. I'm using a Mac with OSX 10.10 64bit, so I put the line "-stdlib=libstdc++ -mmacosx-version-min=10.6" into CPPFLAGS, LDFLAGS, etc. The error:</p> <pre>actions.cpp:1973:26: error: no viable conversion from 'const std::string' (aka 'const basic_string<char>') to 'const char *' fb.open (target, std::ios::out); ^~~~~~ /Applications/Xcode.app/Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs/MacOSX10.9.sdk /usr/include/c++/4.2.1/fstream:286:24: note: passing argument to parameter '__s' here open(const char* __s, ios_base::openmode __mode); ^</pre>			
Related issues:			
Related to Exiv2 - Feature #1149: Support for metadata in FLIR One thermal im...		New	09 Jan 2016

Associated revisions

Revision 4177 - 10 Jan 2016 10:33 - Robin Mills

#1150. Fixed build breaker on elderly Macs (10.6 and earlier).

History

#1 - 09 Jan 2016 22:28 - Robin Mills

- Category set to build
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.26
- % Done changed from 0 to 50
- Estimated time set to 2.00 h

Max. Thanks for letting me know about this. I was very surprised by this because I obtained that code from a very credible source: <http://www.cplusplus.com/reference/ostream/ostream/ostream/>

The quick fix is to change:

```
fb.open (target, std::ios::out);
```

to:

```
fb.open (target.c_str(), std::ios::out);
```

However, I'm uneasy about that. `c_str()` is a legacy thing and should be avoided. I'll have a proper look at this on Sunday.

#2 - 10 Jan 2016 10:56 - Robin Mills

- Status changed from Assigned to Resolved
- % Done changed from 50 to 100

Fix submitted: [r4177](#)

Good News, this code was broken on the buildserver. I submitted the code and went to the movies. It had only been on the trunk for an hour when you raised this matter. So, I would have discovered this when I got home from the movies!

I've replaced the filebuf code in src/actions.cpp:

```
// http://www.cplusplus.com/reference/ostream/ostream/ostream/  
std::filebuf fb;  
fb.open (target.c_str(), std::ios::out);  
std::ostream os (&fb);  
sourceImage->printStructure (os, Exiv2::kpsXMP);  
fb.close();
```

with:

```
// http://www.cplusplus.com/doc/tutorial/files/  
std::ofstream os;  
os.open (target.c_str());  
sourceImage->printStructure (os, Exiv2::kpsXMP);  
os.close();
```

Which is shorter and more obvious. I need the c_str() on Tiger and Cygwin. It may be possible to detect the version of STL and only include the c_str() when essential, however I'll investigate that possibility if a bug is reported which implicates this code. For the moment it builds and passes the test suite on our supported platforms. <http://exiv2.dyndns.org:8080/job/Exiv2-trunk/2348/>

#3 - 10 Jan 2016 19:22 - Max Pozdeev

Thank you, it works.

#4 - 01 Feb 2016 11:35 - Robin Mills

- Status changed from Resolved to Closed