

Exiv2 - Bug #1066

Unable to build for Mac OSX 10.6

25 Apr 2015 21:37 - Max Pozdeev

Status:	Closed	Start date:	25 Apr 2015
Priority:	Normal	Due date:	
Assignee:	Robin Mills	% Done:	100%
Category:	build	Estimated time:	0.00 hour
Target version:	0.25		
Description			
<p>I can not build the library from latest revision (r3730) 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 is missing std::unique_ptr:</p> <pre>tiffimage.cpp:347:8: error: no member named 'unique_ptr' in namespace 'std' std::unique_ptr<char[]> formatted; ~~~~~^ ... 1 warning and 6 errors generated.</pre> <p>The fix is to use alternate C++ library, i.e "-stdlib=libc++ -mmacosx-version-min=10.7". But it available only for OSX 10.7+. So I can not use Deployment Targets lower than 10.7.</p>			
Related issues:			
Related to Exiv2 - Bug #1065: Is fileProtocol() thread-safe?		Closed	25 Apr 2015

Associated revisions

Revision 3735 - 26 Apr 2015 07:10 - Robin Mills

#1066 Thank You, Thomas for the patch.

1066 = The Battle of Hastings

Revision 3736 - 26 Apr 2015 07:49 - Robin Mills

#1066. Fixed compiler warning on MacOS-X 10.6 on ppc. Signed/unsigned mismatch.

Revision 3737 - 26 Apr 2015 08:00 - Robin Mills

#1066. Fix for test exception. It's coming from #922 on all platforms except Mac.

History

#1 - 25 Apr 2015 21:48 - Thomas Beutlich

- File T1066.patch added

A simple patch T1066.patch that removes the unique_ptr and uses (previously unused) str is attached.

#2 - 25 Apr 2015 21:56 - Thomas Beutlich

- File T1066.patch added

Fixed the patch.

#3 - 25 Apr 2015 22:11 - Thomas Beutlich

- File T1066.patch added

Still improving: Use tail controlled loop and have the delete[] at one place only. Also remove include of memory.

#4 - 25 Apr 2015 22:51 - Robin Mills

- Category set to build
- Status changed from New to Assigned
- Assignee set to Robin Mills
- Target version set to 0.25

Thanks Thomas. I applied your patch. Here's my effort to build it:

```
$ env MACOSX_DEPLOYMENT_TARGET=10.6 make rebuild ; exiv2 -vV -g date -g time -t svn
...
"vtable for std::basic_streambuf<char, std::char_traits<char> >", referenced from:
  (anonymous namespace)::parseCommonTargets(std::string const&, std::string const&) in exiv2.o
  std::string Exiv2::toString<int>(int const&) in exiv2.o
  std::basic_string<char, std::char_traits<char>, std::allocator<char> > Exiv2::toBasicString<char, std::s
tring>(std::string const&) in exiv2.o
  int Exiv2::stringTo<int>(std::string const&, bool&) in exiv2.o
  Action::Print::printMetadatum(Exiv2::Metadatum const&, Exiv2::Image const*) in actions.o
  Action::Adjust::adjustDateTime(Exiv2::ExifData&, std::string const&, std::string const&) const in action
s.o
  Action::FixIso::run(std::string const&) in actions.o
  ...
NOTE: a missing vtable usually means the first non-inline virtual member function has no definition.
"vtable for std::basic_stringbuf<char, std::char_traits<char>, std::allocator<char> >", referenced from:
  (anonymous namespace)::parseCommonTargets(std::string const&, std::string const&) in exiv2.o
  std::string Exiv2::toString<int>(int const&) in exiv2.o
  std::basic_string<char, std::char_traits<char>, std::allocator<char> > Exiv2::toBasicString<char, std::s
tring>(std::string const&) in exiv2.o
  int Exiv2::stringTo<int>(std::string const&, bool&) in exiv2.o
  Action::Print::printMetadatum(Exiv2::Metadatum const&, Exiv2::Image const*) in actions.o
  Action::Adjust::adjustDateTime(Exiv2::ExifData&, std::string const&, std::string const&) const in action
s.o
  Action::FixIso::run(std::string const&) in actions.o
  ...
NOTE: a missing vtable usually means the first non-inline virtual member function has no definition.
ld: symbol(s) not found for architecture x86_64
clang: error: linker command failed with exit code 1 (use -v to see invocation)
make[1]: *** [exiv2] Error 1
make: *** [install] Error 2
make: *** [rebuild] Error 2
```

I'll look again at this tomorrow.

#5 - 26 Apr 2015 04:04 - Niels Kristian Bech Jensen

Thomas' patch fixes the build error I had on Ubuntu 14.04 and 15.04 (no unique_ptr in namespace std).

Best regards,
Niels Kristian Bech Jensen

#6 - 26 Apr 2015 06:34 - Max Pozdeev

Third patch fixes the error. Thank you, Thomas!

Just for info. Only one warning is present:

```
tiffimage.cpp:442:26: warning: comparison of integers of different signs: 'int' and 'unsigned long' [-Wsign-co
mpare]
        if ( nMaxLength > sizeof(buffer) )
            ~~~~~ ^ ~~~~~
1 warning generated.
```

#7 - 26 Apr 2015 07:08 - Robin Mills

Submitted Thomas' patch. [r3735](#). Thank You, Thomas for the patch.

I still get the build error I reported above on 10.6 and 10.7. I haven't tried 10.8 or 10.9. However as Max is happy with Thomas' patch, I have submitted it.

I fixed `int/size_t nMaxLength > sizeof(buffer)` last night on [r3732](#)

#8 - 26 Apr 2015 07:40 - Robin Mills

[r3735](#) has successfully build and passed the test suite on MacOS-X. <http://exiv2.dyndns.org:8080/job/Exiv2-trunk/1964/>

A small test exception is being reported on MSVC/Cygwin/Linux/MinGW:

```
Running bugfixes-test.sh ...
426 440 443 444 445 447 452 460 479 480 495 498 501 528 540 554 662 666 683 711 726 751 769 784 799 800 812 83
1 (836 skipped) 841 876 884 922 937 937a 1026 1040 1043 1044 1053 1054 1058 1062
Files /c/Users/Shared/workspace/Exiv2-trunk/label/mingw/test/tmp/bugfixes-test.out-stripped and /c/Users/Share
d/workspace/Exiv2-trunk/label/mingw/test/data/bugfixes-test.out differ
1490c1490
<      9      16 1677414
---
>      9      16 1677405
result = 1
```

I'm going to have my breakfast and then investigate/fix the test exception.

I'm hope today will be less stressful.

#9 - 26 Apr 2015 07:45 - Max Pozdeev

I've missed [r3732](#). Thank you.

I've just tested [r3735](#) to build on OSX 10.6.8 64bit machine with Xcode 3.2.6 - it's ok.
Only one warning for i386 arch:

```
tiffimage.cpp: In member function 'virtual void Exiv2::TiffImage::printStructure(std::ostream&, Exiv2::printSt
ructureOption_e)':
tiffimage.cpp:509: warning: comparison between signed and unsigned integer expressions
```

```
g++ -v
Using built-in specs.
Target: i686-apple-darwin10
Configured with: /var/tmp/gcc/gcc-5666.3~6/src/configure --disable-checking --enable-werror --prefix=/usr --ma
ndir=/share/man --enable-languages=c,objc,c++,obj-c++ --program-transform-name=/^[cg][^.]*/s/$/-4.2/ --with-
slibdir=/usr/lib --build=i686-apple-darwin10 --program-prefix=i686-apple-darwin10- --host=x86_64-apple-darwin1
0 --target=i686-apple-darwin10 --with-gxx-include-dir=/include/c++/4.2.1
Thread model: posix
gcc version 4.2.1 (Apple Inc. build 5666) (dot 3)
```

#10 - 26 Apr 2015 07:51 - Robin Mills

I've fixed that. [r3736](#).

#11 - 26 Apr 2015 09:38 - Robin Mills

- Status changed from Assigned to Resolved

#12 - 08 May 2015 15:54 - Robin Mills

- % Done changed from 0 to 100

#13 - 21 Jun 2015 16:39 - Andreas Huggel

- Status changed from Resolved to Closed

Files

T1066.patch	1.07 KB	25 Apr 2015	Thomas Beutlich
T1066.patch	1.17 KB	25 Apr 2015	Thomas Beutlich
T1066.patch	1.37 KB	25 Apr 2015	Thomas Beutlich