Subject: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Walter Ikegami Andersson on Thu, 14 Apr 2016 15:51:11 GMT View Forum Message <> Reply to Message

Hello,

I'm currently trying to install the external packages mar15 for running pandaroot. I've run into a problem when trying to install fairsoft\_mar15p3 on a new Mac computer.

I'm running Mac OS X 10.11.4 and Xcode version 7.3 (7D175)

I installed the prerequisites according to the fairroot page; https://fairroot.gsi.de/?q=node/106 which went fine.

These are the settings I'm using:

compiler=Clang debug=no optimize=no geant4\_download\_install\_data\_automatic=yes geant4\_install\_data\_from\_dir=no build\_python=no install\_sim=yes SIMPATH\_INSTALL=/Users/walan603/fairsoft\_mar15/buildFairSoft platform=macosx

The following errors appear during the root installation:

In file included from /Users/walan603/fairsoft\_mar15/tools/root/math/vc/src/trigonometric.cpp:20: In file included from include/Vc/Vc:22: In file included from include/Vc/vector.h:33: In file included from include/Vc/sse/vector.h:23: include/Vc/sse/intrinsics.h:309:17: error: use of undeclared identifier '\_\_builtin\_ia32\_psrldqi128' c = \_mm\_srli\_si128(\_mm\_setallone\_si128(), 12); ^ include/Vc/sse/../common/fix\_clang\_emmintrin.h:40:12: note: expanded from macro

'\_mm\_srli\_si128'

(\_\_m128i)\_\_builtin\_ia32\_psrldqi128((\_\_m128i)(a), (count)\*8); })

In file included from /Users/walan603/fairsoft\_mar15/tools/root/math/vc/src/trigonometric.cpp:20: In file included from include/Vc/Vc:22: In file included from include/Vc/vector.h:33: In file included from include/Vc/sse/vector.h:23: include/Vc/sse/intrinsics.h:312:17: error: C-style cast from 'void' to '\_\_m128i'

'\_mm\_slli\_si128'

(\_\_m128i)\_\_builtin\_ia32\_pslldqi128((\_\_m128i)(a), (count)\*8); })

and it aborts after awhile.

How do I solve this? I also tried fairsoft mar15p6 and got the same result.

Best regards, Walter

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Mohammad Al-Turany on Mon, 18 Apr 2016 13:49:04 GMT View Forum Message <> Reply to Message

Hallo,

This is a problem in VC and ROOT, for now please edit the file

/Users/walan603/fairsoft\_mar15/tools/root/math/vc/include/Vc/common/fix\_ clang\_emmintrin.h

and replace line 29

#ifdef VC\_CLANG

with

#if defined(VC\_CLANG) && VC\_CLANG < 0x30700

this should solve the problem for now tell we get a new release from ROOT.

best,

Mohammad

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Walter Ikegami Andersson on Mon, 18 Apr 2016 14:49:29 GMT View Forum Message <> Reply to Message

Thank you for the response.

I changed the line as you suggested and tried to install mar15p6 again. I noticed now that when building root, I get the following message:

[ 63%] Linking CXX shared module libXrdCryptossI-4.so

[ 63%] Built target xrdcp-old

Undefined symbols for architecture x86\_64:

"\_X509\_NAME\_hash\_old", referenced from: XrdCryptosslX509::IssuerHash(int) in XrdCryptosslX509.cc.o XrdCryptosslX509Crl::IssuerHash(int) in XrdCryptosslX509.cc.o XrdCryptosslX509Crl::IssuerHash(int) in XrdCryptosslX509Crl.cc.o XrdCryptosslX509Req::SubjectHash(int) in XrdCryptosslX509Req.cc.o
Id: symbol(s) not found for architecture x86\_64 clang: error: linker command failed with exit code 1 (use -v to see invocation) make[2]: \*\*\* [src/libXrdCryptossl-4.so] Error 1 make[1]: \*\*\* [src/CMakeFiles/XrdCryptossl-4.dir/all] Error 2 make[1]: \*\*\* Waiting for unfinished jobs....
[ 63%] Building CXX object src/CMakeFiles/XrdServer.dir/XrdFrc/XrdFrcReqFile.cc.o

and the make ends with an error:

[ 74%] Built target XrdCl [ 74%] Linking CXX shared library libXrdServer.dylib [ 74%] Built target XrdServer make: \*\*\* [all] Error 2 Problems running make -j9 ... \*\*\* Compiling root ..... cat: /etc/issue: No such file or directory Copied rootconfig.sh ..... Configure Root ....

However, the installation continues and it seems that root is still installed successfully. Is this a problem?

Furthermore, now I run into these kind of errors when building pluto

Users/walan603/fairsoft\_mar15/buildFairSoft/include/root/ThreadLocalStorage.h:228:4: error: thread-local storage is not supported for the current target TTHREAD\_TLS(T\*) ptr = NULL; /Users/walan603/fairsoft\_mar15/buildFairSoft/include/root/ThreadLocalStorage.h:103:29: note: expanded from macro 'TTHREAD\_TLS' # define TTHREAD\_TLS(type) thread\_local type /Users/walan603/fairsoft\_mar15/buildFairSoft/include/root/ThreadLocalStorage.h:229:4: error: thread-local storage is not supported for the current target TTHREAD\_TLS(Bool\_t) isInit(kFALSE); /Users/walan603/fairsoft\_mar15/buildFairSoft/include/root/ThreadLocalStorage.h:103:29: note: expanded from macro 'TTHREAD\_TLS'

# define TTHREAD\_TLS(type) thread\_local type

and the installation ends with

\*\*\*\* Checking libraries in /Users/walan603/fairsoft\_mar15/buildFairSoft/lib \*\*\*\*

\*\*\* ERROR: Pluto could not be created.

\*\*\* End installation of external packages with Errors\*\*\*

How can I solve this?

Thank you in advance, Walter

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Mohammad Al-Turany on Tue, 19 Apr 2016 07:08:54 GMT View Forum Message <> Reply to Message

Hi,

These are problems which we get before with ROOT and apple clang

https://sft.its.cern.ch/jira/browse/ROOT-6524

The problem is that the ROOT team does not support ROOT5 any more and it will be hard to ask them to correct this, they said since one year that they will stop even the bug fixes in ROOT5.

I tested with ROOT 6 and every thing works without problems (just the one correction I send to you before!) can you go to ROOT 6?

best,

Mohammad

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Walter Ikegami Andersson on Tue, 24 May 2016 15:07:19 GMT View Forum Message <> Reply to Message

Hello Mohammad,

changing to ROOT6, along with you proposed fix solved the problem. I successfully installed fairsoft\_nov15p5 on my computer.

Now, I run into problems when installing FairRoot 15.11b. First, I get this error when calling CMake:

-- The compiler during the compilation of FairSoft is different from the current one. CMake Error at cmake/modules/CheckCompiler.cmake:64 (Message): This is seen as an error. If you know that the setting is correct you can silence the error by using the CMake flag -DUSE\_DIFFERENT\_COMPILER=TRUE Call Stack (most recent call first): CMakeLists.txt:55 (Check\_Compiler)

-- Configuring incomplete, errors occurred!

When I use the suggested CMake flag, the configuration completes. However, when compiling FairRoot with make, I get this error:

[ 30%] Built target Base [ 30%] Linking CXX shared library ../../lib/libfairmq\_logger.dylib Id: file not found: @rpath/libboost\_chrono.dylib for architecture x86\_64 clang: error: linker command failed with exit code 1 (use -v to see invocation) make[2]: \*\*\* [lib/libfairmq\_logger.15.11.0.dylib] Error 1 make[1]: \*\*\* [fairmq/logger/CMakeFiles/fairmq\_logger.dir/all] Error 2 make: \*\*\* [all] Error 2

Is there a quick fix to this problem? I'll also post it on the FairRoot forum.

Thank you in advance, Walter

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Florian Uhlig on Tue, 24 May 2016 15:40:11 GMT View Forum Message <> Reply to Message

Hi Walter,

I have never seen the error. I will try to check on my system if I can reproduce it.

Could you please check if you find the needed boost library

libboost\_chrono.dylib

in the directory

\$SIMPATH/lib

Ciao

Florian

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Walter Ikegami Andersson on Tue, 24 May 2016 16:30:09 GMT View Forum Message <> Reply to Message

Dear Florian,

thank you for the quick response. I do have the boost library libboost\_chrono.dylib in buildFairSoft/lib/.

It seems like there was a related issue posted here: https://forum.gsi.de/index.php?t=msg&th=4879&start=0&

However, I need to run FairRoot nov15 in order to run Pandaroot trunk.

Best regards, Walter

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Dmytro Kresan on Wed, 25 May 2016 07:51:54 GMT View Forum Message <> Reply to Message

Dear Walter,

This linking issue when using Clang 7.3 is resolved in FairRoot v-15.11c (third patch). Can you please try if you can compile PandaRoot with this release?

Best regards, Dima

Subject: Re: Fairsoft\_mar15 on OSX 10.11.4 issues Posted by Walter Ikegami Andersson on Wed, 25 May 2016 15:50:12 GMT View Forum Message <> Reply to Message

Thank you for the input!

Using FairRoot v-15.11c solved the problem. FairSoft nov15p5 and FairRoot v15.11 is now running on my system.

I've now stumbled upon some problems when trying to compile PandaRoot. This, however, I will post on the panda root forum.

Best regards, Walter