

gr-osmosdr - Bug #3663

Can't compile gr-osmosdr on macOS Mojave

10/19/2018 02:08 PM - sevyls

Status:	New	Start date:	10/19/2018
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:			
Target version:			
Spec Reference:			
Description			
Hi,			
I am unable to build gr-osmosdr on macOS Mojave.			
I did checkout the master branch and did the following:			
<pre>\$ brew install gnuradio</pre>			
<pre>\$ git clone https://github.com/osmocom/gr-osmosdr.git</pre>			
<pre>\$ mkdir build</pre>			
<pre>\$ cd build</pre>			
<pre>\$ cmake .. -DGnuradio_DIR=\$(brew --prefix gnuradio)/lib/cmake/gnuradio</pre>			
<pre>-- Build type not specified: defaulting to release.</pre>			
<pre>-- Extracting version information from git describe...</pre>			
<pre>-- Configuring Boost C++ Libraries...</pre>			
<pre>-- Boost version: 1.67.0</pre>			
<pre>-- Found the following Boost libraries:</pre>			
<pre>-- thread</pre>			
<pre>-- system</pre>			
<pre>-- chrono</pre>			
<pre>-- date_time</pre>			
<pre>-- atomic</pre>			
<pre>Checking for GNU Radio Module: RUNTIME</pre>			
<pre>-- Checking for module 'gnuradio-runtime'</pre>			
<pre>-- No package 'gnuradio-runtime' found</pre>			
<pre>* INCLUDES=/usr/local/Cellar/gnuradio/3.7.13.4/include</pre>			
<pre>* LIBS=/usr/local/Cellar/gnuradio/3.7.13.4/lib/libgnuradio-runtime.dylib</pre>			
<pre>GNURADIO_RUNTIME_FOUND = TRUE</pre>			
<pre>Checking for GNU Radio Module: BLOCKS</pre>			
<pre>-- Checking for module 'gnuradio-blocks'</pre>			
<pre>-- No package 'gnuradio-blocks' found</pre>			
<pre>* INCLUDES=/usr/local/Cellar/gnuradio/3.7.13.4/include</pre>			
<pre>* LIBS=/usr/local/Cellar/gnuradio/3.7.13.4/lib/libgnuradio-blocks.dylib</pre>			
<pre>GNURADIO_BLOCKS_FOUND = TRUE</pre>			
<pre>Checking for GNU Radio Module: PMT</pre>			
<pre>-- Checking for module 'gnuradio-runtime'</pre>			
<pre>-- No package 'gnuradio-runtime' found</pre>			
<pre>* INCLUDES=/usr/local/Cellar/gnuradio/3.7.13.4/include</pre>			
<pre>* LIBS=/usr/local/Cellar/gnuradio/3.7.13.4/lib/libgnuradio-pmt.dylib</pre>			
<pre>GNURADIO_PMT_FOUND = TRUE</pre>			
<pre>-- Checking for module 'gnuradio-iqbalance'</pre>			
<pre>-- No package 'gnuradio-iqbalance' found</pre>			
<pre>-- Could NOT find GNURADIO_IQBALANCE (missing: GNURADIO_IQBALANCE_LIBRARIES GNURADIO_IQBALANCE_INCLUDE_DIRS)</pre>			
<pre>-- Checking for module 'gnuradio-uhd'</pre>			
<pre>-- No package 'gnuradio-uhd' found</pre>			
<pre>-- gnuradio-uhd not found.</pre>			
<pre>-- Could NOT find GNURADIO_UHD (missing: GNURADIO_UHD_LIBRARIES GNURADIO_UHD_INCLUDE_DIRS)</pre>			

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-- Checking for module 'gnuradio-fcd'
--   No package 'gnuradio-fcd' found
-- gnuradio-fcd not found.
-- Could NOT find GNURADIO_FCD (missing: GNURADIO_FCD_LIBRARIES GNURADIO_FCD_INCLUDE_DIRS)
-- Checking for module 'gnuradio-fcdproplus'
--   No package 'gnuradio-fcdproplus' found
-- gnuradio-fcdproplus not found.
-- Could NOT find GNURADIO_FCDPP (missing: GNURADIO_FCDPP_LIBRARIES GNURADIO_FCDPP_INCLUDE_DIRS)
-- Checking for module 'libosmosdr'
--   No package 'libosmosdr' found
-- libosmosdr not found.
-- Checking for module 'librtlsdr'
--   No package 'librtlsdr' found
-- librtlsdr not found.
-- Checking for module 'libmirisdr'
--   No package 'libmirisdr' found
-- libmirisdr not found.
-- Checking for module 'libhackrf'
--   No package 'libhackrf' found
-- Could NOT find LIBHACKRF (missing: LIBHACKRF_LIBRARIES LIBHACKRF_INCLUDE_DIRS)
-- Checking for module 'libairspy'
--   No package 'libairspy' found
-- Could NOT find LIBAIRSPY (missing: LIBAIRSPY_LIBRARIES LIBAIRSPY_INCLUDE_DIRS)
CMake Warning at CMakeLists.txt:172 (find_package):
  By not providing "FindVolk.cmake" in CMAKE_MODULE_PATH this project has
  asked CMake to find a package configuration file provided by "Volk", but
  CMake did not find one.

Could not find a package configuration file provided by "Volk" with any of
the following names:

  VolkConfig.cmake
  volk-config.cmake

Add the installation prefix of "Volk" to CMAKE_PREFIX_PATH or set
"Volk_DIR" to a directory containing one of the above files.  If "Volk"
provides a separate development package or SDK, be sure it has been
installed.

-- Checking for module 'libbladeRF'
--   No package 'libbladeRF' found
-- libbladeRF not found.
-- Could NOT find SoapySDR (missing: SoapySDR_DIR)
-- Checking for module 'libfreesrp'
--   No package 'libfreesrp' found
-- libfreesrp not found.
-- Could NOT find Doxygen (missing: DOXYGEN_EXECUTABLE)
--
-- Checking for module SWIG
-- Disabling SWIG because version check failed.
--
-- The build system will automatically enable all components.
-- Use -DENABLE_DEFAULT=OFF to disable components by default.
--
-- Configuring Python support support...
--   Dependency PYTHONLIBS_FOUND = TRUE
--   Dependency SWIG_FOUND = FALSE
--   Dependency SWIG_VERSION_CHECK = FALSE
-- Disabling Python support support.
-- Override with -DENABLE_PYTHON=ON/OFF
--
-- Configuring high resolution timing...
--   High resolution timing supported through mach_absolute_time.
--
-- Configuring Osmocom IQ Imbalance Correction support...
--   Dependency GNURADIO_IQBALANCE_FOUND = FALSE
-- Disabling Osmocom IQ Imbalance Correction support.

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-- Override with -DENABLE_IQBALANCE=ON/OFF
--
-- Configuring sysmocom OsmoSDR support...
-- Dependency LIBOSMOSDR_FOUND = FALSE
-- Disabling sysmocom OsmoSDR support.
-- Override with -DENABLE_OSMOSDR=ON/OFF
--
-- Configuring FUNCube Dongle support...
-- Dependency GNURADIO_FCD_FOUND = FALSE
-- Disabling FUNCube Dongle support.
-- Override with -DENABLE_FCD=ON/OFF
--
-- Configuring FUNCube Dongle Pro+ support...
-- Dependency GNURADIO_FCDPP_FOUND = FALSE
-- Disabling FUNCube Dongle Pro+ support.
-- Override with -DENABLE_FCDPP=ON/OFF
--
-- Configuring IQ File Source & Sink support...
-- Dependency GNURADIO_BLOCKS_FOUND = TRUE
-- Enabling IQ File Source & Sink support.
-- Override with -DENABLE_FILE=ON/OFF
--
-- Configuring Osmocom RTLSDR support...
-- Dependency LIBRTLSDR_FOUND = FALSE
-- Disabling Osmocom RTLSDR support.
-- Override with -DENABLE_RTL=ON/OFF
--
-- Configuring RTLSDR TCP Client support...
-- Dependency GNURADIO_BLOCKS_FOUND = TRUE
-- Enabling RTLSDR TCP Client support.
-- Override with -DENABLE_RTL_TCP=ON/OFF
--
-- Configuring Ettus USRP Devices support...
-- Dependency UHD_FOUND = TRUE
-- Dependency GNURADIO_UHD_FOUND = FALSE
-- Disabling Ettus USRP Devices support.
-- Override with -DENABLE_UHD=ON/OFF
--
-- Configuring Osmocom MiriSDR support...
-- Dependency LIBMIRISDR_FOUND = FALSE
-- Disabling Osmocom MiriSDR support.
-- Override with -DENABLE_MIRI=ON/OFF
--
-- Configuring HackRF & radlo Badge support...
-- Dependency LIBHACKRF_FOUND = FALSE
-- Disabling HackRF & radlo Badge support.
-- Override with -DENABLE_HACKRF=ON/OFF
--
-- Configuring nuand bladerF support...
-- Dependency LIBBLADERF_FOUND = FALSE
-- Disabling nuand bladerF support.
-- Override with -DENABLE_BLADERF=ON/OFF
--
-- Configuring RFSPACE Receivers support...
-- Enabling RFSPACE Receivers support.
-- Override with -DENABLE_RFSPACE=ON/OFF
--
-- Configuring AIRSPY Receiver support...
-- Dependency LIBAIRSPY_FOUND = FALSE
-- Disabling AIRSPY Receiver support.
-- Override with -DENABLE_AIRSPY=ON/OFF
--
-- Configuring SoapySDR support support...
-- Dependency SoapySDR_FOUND = 0
-- Disabling SoapySDR support support.
-- Override with -DENABLE_SOAPY=ON/OFF
--
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-- Configuring Red Pitaya SDR support...
--   Enabling Red Pitaya SDR support.
--   Override with -DENABLE_REDPITAYA=ON/OFF
--
-- Configuring FreeSRP support support...
--   Dependency LIBFREESRP_FOUND = FALSE
--   Disabling FreeSRP support support.
--   Override with -DENABLE_FREESRP=ON/OFF
--
-- #####
-- # Gnuradio enabled components
-- #####
-- * IQ File Source & Sink
-- * RTLSDR TCP Client
-- * RFSPACE Receivers
-- * Red Pitaya SDR
--
-- #####
-- # Gnuradio disabled components
-- #####
-- * Python support
-- * Osmocom IQ Imbalance Correction
-- * sysmocom OsmoSDR
-- * FUNCube Dongle
-- * FUNCube Dongle Pro+
-- * Osmocom RTLSDR
-- * Ettus USRP Devices
-- * Osmocom MiriSDR
-- * HackRF & radlo Badge
-- * nuand bladeRF
-- * AIRSPY Receiver
-- * SoapySDR support
-- * FreeSRP support
--
-- Building for version: v0.1.4-127-g4d83c606 / 0.1.5git
-- Using install prefix: /usr/local
-- Configuring done
CMake Warning (dev):
  Policy CMP0042 is not set: MACOSX_RPATH is enabled by default. Run "cmake
  --help-policy CMP0042" for policy details. Use the cmake_policy command to
  set the policy and suppress this warning.

MACOSX_RPATH is not specified for the following targets:

  gnuradio-osmosdr

This warning is for project developers. Use -Wno-dev to suppress it.

-- Generating done
-- Build files have been written to: /Users/aussmich/Projekte/gr-osmosdr/build

make VERBOSE=1
/usr/local/Cellar/cmake/3.12.3/bin/cmake -H/Users/user/Projekte/gr-osmosdr -B/Users/user/Projekte/
gr-osmosdr/build --check-build-system CMakeFiles/Makefile.cmake 0
/usr/local/Cellar/cmake/3.12.3/bin/cmake -E cmake_progress_start /Users/user/Projekte/gr-osmosdr/b
uild/CMakeFiles /Users/user/Projekte/gr-osmosdr/build/CMakeFiles/progress.marks
/Library/Developer/CommandLineTools/usr/bin/make -f CMakeFiles/Makefile2 all
/Library/Developer/CommandLineTools/usr/bin/make -f lib/CMakeFiles/gnuradio-osmosdr.dir/build.make
lib/CMakeFiles/gnuradio-osmosdr.dir/depend
cd /Users/user/Projekte/gr-osmosdr/build && /usr/local/Cellar/cmake/3.12.3/bin/cmake -E cmake_depe
nds "Unix Makefiles" /Users/user/Projekte/gr-osmosdr /Users/user/Projekte/gr-osmosdr/lib /Users/us
er/Projekte/gr-osmosdr/build /Users/user/Projekte/gr-osmosdr/build/lib /Users/user/Projekte/gr-osm
osdr/build/lib/CMakeFiles/gnuradio-osmosdr.dir/DependInfo.cmake --color=
/Library/Developer/CommandLineTools/usr/bin/make -f lib/CMakeFiles/gnuradio-osmosdr.dir/build.make
lib/CMakeFiles/gnuradio-osmosdr.dir/build
[ 7%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/source_impl.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -

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DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -
I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandL
ineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/source_impl.cc.o -c /User
s/user/Projekte/gr-osmosdr/lib/source_impl.cc
[ 15%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/sink_impl.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -
I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandL
ineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/sink_impl.cc.o -c /Users/
user/Projekte/gr-osmosdr/lib/sink_impl.cc
[ 23%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/ranges.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -
I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandL
ineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/ranges.cc.o -c /Users/use
r/Projekte/gr-osmosdr/lib/ranges.cc
[ 30%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/device.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -
I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandL
ineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/device.cc.o -c /Users/use
r/Projekte/gr-osmosdr/lib/device.cc
[ 38%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/time_spec.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -DHAVE_MACH_ABSOLUTE_TIME -I/User
s/user/Projekte/gr-osmosdr/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Proje
kte/gr-osmosdr/lib -I/usr/local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/use
r/Projekte/gr-osmosdr/lib/file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekt
e/gr-osmosdr/lib/rfspace -I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /
Library/Developer/CommandLineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir
/time_spec.cc.o -c /Users/user/Projekte/gr-osmosdr/lib/time_spec.cc
[ 46%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/file/file_source_c.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -
I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandL
ineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/file/file_source_c.cc.o -
c /Users/user/Projekte/gr-osmosdr/lib/file/file_source_c.cc
[ 53%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/file/file_sink_c.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -
I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandL
ineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/file/file_sink_c.cc.o -c
/Users/user/Projekte/gr-osmosdr/lib/file/file_sink_c.cc
[ 61%] Building CXX object lib/CMakeFiles/gnuradio-osmosdr.dir/rtl_tcp/rtl_tcp_source_c.cc.o
cd /Users/user/Projekte/gr-osmosdr/build/lib && /Library/Developer/CommandLineTools/usr/bin/c++ -
DBoost_ALL_DYN_LINK -DHAVE_CONFIG_H=1 -Dgnuradio_osmosdr_EXPORTS -I/Users/user/Projekte/gr-osmosdr
/build/lib -I/Users/user/Projekte/gr-osmosdr/include -I/Users/user/Projekte/gr-osmosdr/lib -I/usr/
local/include -I/usr/local/Cellar/gnuradio/3.7.13.4/include -I/Users/user/Projekte/gr-osmosdr/lib/
file -I/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp -I/Users/user/Projekte/gr-osmosdr/lib/rfspace -

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I/Users/user/Projekte/gr-osmosdr/lib/redpitaya -O3 -DNDEBUG -isysroot /Library/Developer/CommandLineTools/SDKs/MacOSX10.14.sdk -fPIC -o CMakeFiles/gnuradio-osmosdr.dir/rtl_tcp/rtl_tcp_source_c.cc.o -c /Users/user/Projekte/gr-osmosdr/lib/rtl_tcp/rtl_tcp_source_c.cc
/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp/rtl_tcp_source_c.cc:301:9: error:
    expected expression
    cmd = { 0x09, htonl(direct_samp) };
           ^
/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp/rtl_tcp_source_c.cc:307:9: error:
    expected expression
    cmd = { 0x0a, htonl(offset_tune) };
           ^
/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp/rtl_tcp_source_c.cc:311:9: error:
    expected expression
    cmd = { 0x0e, htonl(bias_tee) };
           ^
/Users/user/Projekte/gr-osmosdr/lib/rtl_tcp/rtl_tcp_source_c.cc:570:9: error:
    expected expression
    cmd = { 0x08, htonl(automatic) };
           ^
4 errors generated.
make[2]: *** [lib/CMakeFiles/gnuradio-osmosdr.dir/rtl_tcp/rtl_tcp_source_c.cc.o] Error 1
make[1]: *** [lib/CMakeFiles/gnuradio-osmosdr.dir/all] Error 2
make: *** [all] Error 2
```

My Compiler:

```
/Library/Developer/CommandLineTools/usr/bin/c++ -v
Apple LLVM version 10.0.0 (clang-1000.10.44.2)
Target: x86_64-apple-darwin18.0.0
Thread model: posix
InstalledDir: /Library/Developer/CommandLineTools/usr/bin
```

Please assist.

History

#1 - 10/19/2018 02:21 PM - sevyls

May have something to do with the default c++ std used when running clang as default compiler

#2 - 10/19/2018 02:37 PM - sevyls

Fixed and pull request sent:

<https://github.com/osmocom/gr-osmosdr/pull/16>