

SDR (Software Defined Radio) - Bug #3817

Unable to use fosphor display on Ubuntu 18.10

02/26/2019 06:52 PM - gravytrain21

Status:	New	Start date:	02/26/2019
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:			
Target version:			
Resolution:		Spec Reference:	
Description			
<p>I hope this is the right place to ask. I went through both the gr-osmosdr and gr-fosphor install processes. The one hang up I had was with installing openc1, which was solved by following the instructions listed here https://askubuntu.com/questions/850281/openc1-on-ubuntu-16-04-intel-sandy-bridge-cpu</p> <p>I'm running this on an intel machine (i5 8250U, 620 Kabylake GT2 graphics)</p> <p>Output from trying to run 'osmoccom_fft -F':</p> <pre>\$ osmoccom_fft -F gr-osmosdr v0.1.4-127-g4d83c606 (0.1.5git) gnuradio 3.7.13.4 built-in source types: file fcd rtl_tcp hackrf rfspace redpitaya Using HackRF One with firmware git-1b95b2e Traceback (most recent call last): File "/usr/local/bin/osmoccom_fft", line 850, in <module> main () File "/usr/local/bin/osmoccom_fft", line 846, in main app = stdgui2.stdapp(app_top_block, "osmoccom Spectrum Browser", nstatus=1) File "/usr/lib/python2.7/dist-packages/gnuradio/wxgui/stdgui2.py", line 46, in <i>init</i> wx.App.__init__(self, redirect=False) File "/usr/lib/python2.7/dist-packages/wx-3.0-gtk3/wx/_core.py", line 8628, in <i>init</i> self.BootstrapApp() File "/usr/lib/python2.7/dist-packages/wx-3.0-gtk3/wx/_core.py", line 8196, in <i>BootstrapApp</i> return_core.PyApp__BootstrapApp(*args, **kwargs) File "/usr/lib/python2.7/dist-packages/gnuradio/wxgui/stdgui2.py", line 49, in OnInit frame = stdframe (self.top_block_maker, self.title, self._nstatus) File "/usr/lib/python2.7/dist-packages/gnuradio/wxgui/stdgui2.py", line 76, in <i>init</i> self.panel = stdpanel (self, self, top_block_maker) File "/usr/lib/python2.7/dist-packages/gnuradio/wxgui/stdgui2.py", line 98, in <i>init</i> self.top_block = top_block_maker (frame, self, vbox, sys.argv) File "/usr/local/bin/osmoccom_fft", line 228, in <i>init</i> from gnuradio import fosphor File "/usr/lib/python2.7/dist-packages/gnuradio/fosphor/__init__.py", line 27, in <module> File "/usr/lib/python2.7/dist-packages/gnuradio/fosphor/fosphor_swig.py", line 17, in <module> File "/usr/lib/python2.7/dist-packages/gnuradio/fosphor/fosphor_swig.py", line 16, in swig_import_helper File "/usr/lib/python2.7/importlib/__init__.py", line 37, in import_module <i>import</i>(name) ImportError: No module named _fosphor_swig</pre> <p>Output from fosphor install:</p> <pre>\$ cmake .. -- Build type not specified: defaulting to release. -- Extracting version information from git describe... -- Boost version: 1.67.0 -- Found the following Boost libraries: -- system -- thread -- chrono -- date_time -- atomic CMake Warning (dev) at /usr/share/cmake-3.12/Modules/FindOpenGL.cmake:270 (message):</pre>			

Policy CMP0072 is not set: FindOpenGL prefers GLVND by default when available. Run "cmake --help-policy CMP0072" for policy details. Use the cmake_policy command to set the policy and suppress this warning.

FindOpenGL found both a legacy GL library:

OPENGL_gl_LIBRARY: /usr/lib/x86_64-linux-gnu/libGL.so

and GLVND libraries for OpenGL and GLX:

OPENGL_opengl_LIBRARY: /usr/lib/x86_64-linux-gnu/libOpenGL.so

OPENGL_glx_LIBRARY: /usr/lib/x86_64-linux-gnu/libGLX.so

OpenGL_GL_PREFERENCE has not been set to "GLVND" or "LEGACY", so for compatibility with CMake 3.10 and below the legacy GL library will be used.

Call Stack (most recent call first):

CMakeLists.txt:97 (find_package)

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

-- Found OpenCL: /usr/lib/x86_64-linux-gnu/libOpenCL.so

-- Found Freetype: /usr/lib/x86_64-linux-gnu/libfreetype.so (found version "2.8.1")

-- Found PkgConfig: /usr/bin/pkg-config (found version "0.29.1")

-- Checking for module 'glfw3'

-- Found glfw3, version 3.3.0

-- Found GLFW3: /usr/local/include, /usr/local/lib/libglfw.so

-- Looking for Q_WS_X11

-- Looking for Q_WS_X11 - found

-- Looking for Q_WS_WIN

-- Looking for Q_WS_WIN - not found

-- Looking for Q_WS_QWS

-- Looking for Q_WS_QWS - not found

-- Looking for Q_WS_MAC

-- Looking for Q_WS_MAC - not found

-- Found Qt4: /usr/bin/qmake (found suitable version "4.8.7", minimum required is "4.2.0")

Checking for GNU Radio Module: RUNTIME

-- Checking for module 'gnuradio-runtime'

-- Found gnuradio-runtime, version 3.7.13 * INCLUDES=/usr/include *

LIBS=/usr/lib/x86_64-linux-gnu/libgnuradio-runtime.so;/usr/lib/x86_64-linux-gnu/libgnuradio-pmt.so;/usr/lib/x86_64-linux-gnu/liblog4cpp.so

-- Found GNURADIO_RUNTIME:

/usr/lib/x86_64-linux-gnu/libgnuradio-runtime.so;/usr/lib/x86_64-linux-gnu/libgnuradio-pmt.so;/usr/lib/x86_64-linux-gnu/liblog4cpp.so

GNURADIO_RUNTIME_FOUND = TRUE

Checking for GNU Radio Module: FFT

-- Checking for module 'gnuradio-fft'

-- Found gnuradio-fft, version 3.7.13 * INCLUDES=/usr/include *

LIBS=/usr/lib/x86_64-linux-gnu/libgnuradio-fft.so;/usr/lib/x86_64-linux-gnu/libgnuradio-runtime.so;/usr/lib/x86_64-linux-gnu/libgnuradio-pmt.so;/usr/lib/x86_64-linux-gnu/liblog4cpp.so

-- Found GNURADIO_FFT:

/usr/lib/x86_64-linux-gnu/libgnuradio-fft.so;/usr/lib/x86_64-linux-gnu/libgnuradio-runtime.so;/usr/lib/x86_64-linux-gnu/libgnuradio-pmt.so;/usr/lib/x86_64-linux-gnu/liblog4cpp.so

GNURADIO_FFT_FOUND = TRUE

-- Checking for module 'cppunit'

-- Found cppunit, version 1.14.0

-- Found CPPUNIT: /usr/lib/x86_64-linux-gnu/libcppunit.so;dl

-- Found Doxygen: /usr/bin/doxygen (found version "1.8.13") found components: doxygen missing components: dot

-- Found PythonLibs: /usr/lib/x86_64-linux-gnu/libpython2.7.so (found suitable version "2.7.15+", minimum required is "2")

--

-- Checking for module SWIG

-- Found SWIG version 3.0.12.

-- Found SWIG: /usr/bin/swig3.0

--

-- The build system will automatically enable all components.

-- Use ~~DENABLE_DEFAULT=OFF~~ to disable components by default.

--

-- Configuring Python support...

-- Dependency PYTHONLIBS_FOUND = TRUE

-- Dependency SWIG_FOUND = TRUE

```

-- Enabling Python support.
-- Override with DENABLE_PYTHON=ON/OFF
-
-- Configuring GLFW support...
-- Dependency GLFW3_FOUND = TRUE
-- Enabling GLFW support.
-- Override with DENABLE_GLFW=ON/OFF
-
-- Configuring QT support...
-- Dependency QT_FOUND = TRUE
-- Enabling QT support.
-- Override with DENABLE_QT=ON/OFF
-
-- Configuring WX support...
-- Dependency PYTHONLIBS_FOUND = TRUE
-- Dependency SWIG_FOUND = TRUE
-- Dependency ENABLE_PYTHON = ON
-- Enabling WX support.
-- Override with DENABLE_WX=ON/OFF
- Found PythonInterp: /usr/bin/python2 (found suitable version "2.7.15", minimum required is "2")
-- Performing Test HAVE_WNO_UNUSED_BUT_SET_VARIABLE
-- Performing Test HAVE_WNO_UNUSED_BUT_SET_VARIABLE - Success
--
-- #####
-- # Gnuradio enabled components
-- #####
-- * Python
-- * GLFW
-- * QT
-- * WX
--
-- #####
-- # Gnuradio disabled components
-- #####
--
-- Using install prefix: /usr/local
-- Configuring done
-- Generating done
-- Build files have been written to: /home/person/repos/gr-fosphor/build

person@machine:~/repos/gr-fosphor/build$ make
Scanning dependencies of target gnuradio-fosphor_autogen
[ 2%] Automatic MOC for target gnuradio-fosphor
[ 2%] Built target gnuradio-fosphor_autogen
[ 5%] Generating fosphor/resource_data.c
Scanning dependencies of target gnuradio-fosphor
[ 8%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/axis.c.o
/home/jacob/repos/gr-fosphor/lib/fosphor/axis.c: In function 'freq_axis_build':
/home/jacob/repos/gr-fosphor/lib/fosphor/axis.c:124:34: warning: '__builtin___sprintf_chk' may write a terminating nul past the end of
the destination [-Wformat-overflow=]
sprintf(fx->abs_fmt, "%%.%dlf%s", y, prefix);
^
In file included from /usr/include/stdio.h:873,
from /home/jacob/repos/gr-fosphor/lib/fosphor/axis.c:30:
/usr/include/x86_64-linux-gnu/bits/stdio2.h:36:10: note: '__builtin___sprintf_chk' output between 6 and 17 bytes into a destination of
size 16
return builtinsprintf_chk (s, __USE_FORTIFY_LEVEL - 1,
^
~
~
__bos (_s), _fmt, __va_arg_pack ());
~
~
/home/jacob/repos/gr-fosphor/lib/fosphor/axis.c:147:33: warning: '%s' directive writing up to 1 bytes into a region of size between 0
and 10 [-Wformat-overflow=]
sprintf(fx->rel_fmt, "%%+.%dlf%s", y, prefix);
^~ ~~~
In file included from /usr/include/stdio.h:873,
from /home/jacob/repos/gr-fosphor/lib/fosphor/axis.c:30:
/usr/include/x86_64-linux-gnu/bits/stdio2.h:36:10: note: '__builtin___sprintf_chk' output between 7 and 18 bytes into a destination of size

```

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```
return builtin_sprintf_chk (s, __USE_FORTIFY_LEVEL - 1,
```

```
^~~~~~
```

```
__bos (_s), __fmt, __va_arg_pack ());
```

```
~~~~~~
```

```
[ 11%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/cl.c.o
```

```
In file included from /usr/include/CL/cl.h:36,
```

```
from /home/jacob/repos/gr-fosphor/lib/fosphor/cl_platform.h:39,
```

```
from /home/jacob/repos/gr-fosphor/lib/fosphor/cl.c:36:
```

```
/usr/include/CL/cl_version.h:34:9: note: #pragma message: cl_version.h: CL_TARGET_OPENCL_VERSION is not defined.
```

```
Defaulting to 220 (OpenCL 2.2)
```

```
#pragma message("cl_version.h: CL_TARGET_OPENCL_VERSION is not defined. Defaulting to 220 (OpenCL 2.2)")
```

```
^~~~~~
```

```
[ 14%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/cl_compat.c.o
```

```
In file included from /usr/include/CL/cl.h:36,
```

```
from /home/jacob/repos/gr-fosphor/lib/fosphor/cl_platform.h:39,
```

```
from /home/jacob/repos/gr-fosphor/lib/fosphor/cl_compat.h:33,
```

```
from /home/jacob/repos/gr-fosphor/lib/fosphor/cl_compat.c:45:
```

```
/usr/include/CL/cl_version.h:34:9: note: #pragma message: cl_version.h: CL_TARGET_OPENCL_VERSION is not defined.
```

```
Defaulting to 220 (OpenCL 2.2)
```

```
#pragma message("cl_version.h: CL_TARGET_OPENCL_VERSION is not defined. Defaulting to 220 (OpenCL 2.2)")
```

```
^~~~~~
```

```
[ 17%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/fosphor.c.o
```

```
[ 20%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/gl.c.o
```

```
[ 23%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/gl_cmap.c.o
```

```
[ 26%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/gl_cmap_gen.c.o
```

```
[ 29%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/gl_font.c.o
```

```
[ 32%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/resource.c.o
```

```
[ 35%] Building C object lib/CMakeFiles/gnuradio-fosphor.dir/fosphor/resource_data.c.o
```

```
[ 38%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/fifo.cc.o
```

```
[ 41%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/base_sink_c_impl.cc.o
```

```
[ 44%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/glfw_sink_c_impl.cc.o
```

```
[ 47%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/QGLSurface.cc.o
```

```
[ 50%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/qt_sink_c_impl.cc.o
```

```
[ 52%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/wx_core_sink_c_impl.cc.o
```

```
[ 55%] Building CXX object lib/CMakeFiles/gnuradio-fosphor.dir/gnuradio-fosphor_autogen/mocs_compilation.cpp.o
```

```
[ 58%] Linking CXX shared library libgnuradio-fosphor.so
```

```
[ 58%] Built target gnuradio-fosphor
```

```
Scanning dependencies of target fosphor_swig_swig_doc
```

```
[ 58%] Built target fosphor_swig_swig_doc
```

```
Scanning dependencies of target _fosphor_swig_swig_tag
```

```
[ 61%] Building CXX object swig/CMakeFiles/_fosphor_swig_swig_tag.dir/_fosphor_swig_swig_tag.cpp.o
```

```
[ 64%] Linking CXX executable _fosphor_swig_swig_tag
```

```
[ 64%] Built target _fosphor_swig_swig_tag
```

```
[ 67%] Generating fosphor_swig.tag
```

```
Scanning dependencies of target fosphor_swig_swig_2d0df
```

```
[ 70%] Building CXX object swig/CMakeFiles/fosphor_swig_swig_2d0df.dir/fosphor_swig_swig_2d0df.cpp.o
```

```
[ 73%] Linking CXX executable fosphor_swig_swig_2d0df
```

```
Swig source
```

```
[ 73%] Built target fosphor_swig_swig_2d0df
```

```
Scanning dependencies of target _fosphor_swig
```

```
[ 76%] Building CXX object swig/CMakeFiles/_fosphor_swig.dir/fosphor_swigPYTHON_wrap.cxx.o
```

```
[ 79%] Linking CXX shared module _fosphor_swig.so
```

```
[ 85%] Built target _fosphor_swig
```

```
Scanning dependencies of target pygen_swig_89a7d
```

```
[ 88%] Generating fosphor_swig.pyc
```

```
[ 91%] Generating fosphor_swig.pyo
```

```
[ 94%] Built target pygen_swig_89a7d
```

```
Scanning dependencies of target pygen_python_73fe0
```

```
[ 97%] Generating __init.pyc, wx_sink_c.pyc
```

```
[100%] Generating init.pyo, wx_sink_c.pyo
```

```
[100%] Built target pygen_python_73fe0
```

```
Scanning dependencies of target pygen_apps_9a6dd
```

```
[100%] Built target pygen_apps_9a6dd
```

```
person@machine:~/repos/gr-fosphor/build$ sudo make install
```

```
[ 2%] Automatic MOC for target gnuradio-fosphor
```

```
[ 2%] Built target gnuradio-fosphor_autogen
[ 58%] Built target gnuradio-fosphor
[ 58%] Built target fosphor_swig_swig_doc
[ 64%] Built target fosphor_swig_swig_tag
[ 73%] Built target fosphor_swig_swig_2d0df
[ 85%] Built target _fosphor_swig
[ 94%] Built target pygen_swig_89a7d
[100%] Built target pygen_python_73fe0
[100%] Built target pygen_apps_9a6dd
Install the project...
-- Install configuration: "Release"
-- Installing: /usr/local/lib/pkgconfig/gnuradio-fosphor.pc
-- Installing: /usr/local/include/gnuradio/fosphor/api.h
-- Installing: /usr/local/include/gnuradio/fosphor/base_sink_c.h
-- Installing: /usr/local/include/gnuradio/fosphor/glfw_sink_c.h
-- Installing: /usr/local/include/gnuradio/fosphor/qt_sink_c.h
-- Installing: /usr/local/include/gnuradio/fosphor/wx_core_sink_c.h
-- Installing: /usr/local/lib/libgnuradio-fosphor.so.3.7.0git
-- Set runtime path of "/usr/local/lib/libgnuradio-fosphor.so.3.7.0git" to ""
-- Installing: /usr/local/lib/libgnuradio-fosphor.so
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/_fosphor_swig.so
-- Set runtime path of "/usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/_fosphor_swig.so" to ""
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/fosphor_swig.py
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/fosphor_swig.pyc
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/fosphor_swig.pyo
-- Installing: /usr/local/include/gnuradio/fosphor/swig/fosphor_swig.i
-- Installing: /usr/local/include/gnuradio/fosphor/swig/fosphor_swig_doc.i
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/_init__.py
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/wx_sink_c.py
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/_init__.pyc
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/wx_sink_c.pyc
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/_init__.pyo
-- Installing: /usr/local/lib/python2.7/dist-packages/gnuradio/fosphor/wx_sink_c.pyo
-- Installing: /usr/local/share/gnuradio/grc/blocks/fosphor_glfw_sink_c.xml
-- Installing: /usr/local/share/gnuradio/grc/blocks/fosphor_qt_sink_c.xml
-- Installing: /usr/local/share/gnuradio/grc/blocks/fosphor_wx_sink_c.xml
```

History

#1 - 02/26/2019 06:56 PM - gravitytrain21

GNU Radio version: 3.7.13.4