

QGIS Application - Bug report #17218

OS X install looks for PyQt4 instead of PyQt5

2017-09-28 06:11 PM - David Liohtooth

Status:	Feedback	
Priority:	Normal	
Assignee:	dmartella -	
Category:	Build/Install	
Affected QGIS version:	master	Regression?: No
Operating System:	OS X 10.12.6	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 25117
Description		
<p>On an up-to-date OS X Sierra, using QGIS git master and MacPorts' QT5 following David Marteau's instructions at https://www.3liz.com/blog/rldhont/index.php?post/2017/06/01/How-to-build-qgis-on-OSX-with-MacPort, I set the compilers as suggested in INSTALL:</p> <pre>export CC=/usr/bin/llvm-gcc export CXX=/usr/bin/llvm-g++</pre> <p>The build was successful, but install complains. I take it these codecs are not required?</p> <pre>-- Updating QGIS library paths... -- Copying Qt frameworks... ditto: can't get real path for source '/opt/local/libexec/qt5/plugins/codecs/libqcncodecs.dylib' ditto: can't get real path for source '/opt/local/libexec/qt5/plugins/codecs/libqjpcodecs.dylib' ditto: can't get real path for source '/opt/local/libexec/qt5/plugins/codecs/libqkrcodecs.dylib' ditto: can't get real path for source '/opt/local/libexec/qt5/plugins/codecs/libqtwcodecs.dylib' ditto: can't get real path for source '/opt/local/libexec/qt5/plugins/phonon_backend/libphonon_qt7.dylib'</pre> <p>Install finds QT5, but looks for PyQt4 instead of PyQt5 -- py36-pyqt5 @5.8.2_0 is installed:</p> <pre>-- Copying Qwt and updating library paths... -- Copying QCA and updating library paths... -- Found QCA plugin directory: /opt/local/libexec/qt5/plugins -- Updating QCA plugins with QCA library path in /opt/local/libexec/qt5/plugins ... -- PYTHON_MODULE_PATHS to be searched: -- /opt/local/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages -- /opt/local/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/site-packages -- Copying sip... -- Copying PyQt... -- PyQt4 module Qt.so not found -- PyQt4 module QtCore.so not found -- PyQt4 module QtGui.so not found -- PyQt4 module phonon.so not found -- PyQt4 module QtXml.so not found -- PyQt4 module QtNetwork.so not found -- PyQt4 module QtScript.so not found -- PyQt4 module QtSvg.so not found -- PyQt4 module QtSql.so not found -- PyQt4 module QtWebKit.so not found -- PyQt4 module QtXmlPatterns.so not found</pre>		

```
-- PyQt4 module QtDBus.so not found
-- PyQt4 module QtMultimedia.so not found
-- PyQt4 module QtOpenGL.so not found
-- PyQt4 module QtTest.so not found
-- PyQt4 module Qsci.so not found
cp: cannot stat '/PyQt/uic': No such file or directory
ditto: can't get real path for source '/pylupdate4'
ditto: can't get real path for source '/pyrcc4'
-- Updating Qt library paths...
-- Up-to-date: /Users/liontooth/software/QGIS/QGIS-2.99/dist/QGIS.app/Contents/MacOS/bin/qgis_bench.app
-- Up-to-date: /Users/liontooth/software/QGIS/QGIS-2.99/dist/QGIS.app/Contents/MacOS/bin/qgis_bench.app/Contents
-- Up-to-date: /Users/liontooth/software/QGIS/QGIS-2.99/dist/QGIS.app/Contents/MacOS/bin/qgis_bench.app/Contents/Info.plist
-- Up-to-date: /Users/liontooth/software/QGIS/QGIS-2.99/dist/QGIS.app/Contents/MacOS/bin/qgis_bench.app/Contents/MacOS
-- Installing:
/Users/liontooth/software/QGIS/QGIS-2.99/dist/QGIS.app/Contents/MacOS/bin/qgis_bench.app/Contents/MacOS/qgis_bench
```

How can I tell install to look for PyQt5?

History

#1 - 2017-10-06 02:26 AM - Joel Buckley

David Liontooth wrote:

How can I tell install to look for PyQt5?

What were your cmake options? I have found that

```
-DQT_VERSION_MAJOR=5 -DPYQT4_BIN_DIR=/usr/local/bin
```

ameliorates some issues (though I am not 100% satisfied it makes everything go away).

Further, I suspect some changes need to be made in /mac/cmake/1qt.cmake.in (PyQt version 4 seems to be hard-coded in)

#2 - 2017-10-06 09:19 PM - David Liontooth

Great, thanks. I've been using this, from David Marteau with supplements:

```
cmake $(CMAKE_OPTS) \
-DWITH_ASTYLE=ON \
-DCMAKE_INSTALL_PREFIX:PATH=$(INSTALL_PATH) \
-DWITH_SERVER=ON \
-DWITH_POSTGRESQL:BOOL=TRUE \
-DPOSTGRES_CONFIG:FILEPATH=/opt/local/lib/postgresql96/bin/pg_config \
-DWITH_GRASS7:BOOL=ON \
-DLIBZIP_INCLUDE_DIR:PATH=/opt/local/include \
-DLIBZIP_CONF_INCLUDE_DIR:FILEPATH=/opt/local/lib/libzip/include \
-DLIBZIP_LIBRARY:FILEPATH=/opt/local/lib/libzip.dylib \
-DEXPAT_INCLUDE_DIR:PATH=/opt/local/include \
```

```
-DEXPAT_LIBRARY:FILEPATH=/opt/local/lib/libexpat.dylib \
-DSQLITE3_INCLUDE_DIR:PATH=/opt/local/include \
-DSQLITE3_LIBRARY:FILEPATH=/opt/local/lib/libsqlite3.dylib \
-DQT_QMAKE_EXECUTABLE:FILEPATH=/opt/local/libexec/qt5/bin/qmake \
-DQWT_INCLUDE_DIR:PATH=/opt/local/libexec/qt5/include/qwt \
-DQWT_LIBRARY:FILEPATH=/opt/local/libexec/qt5/lib/libqwt.dylib \
-DQCA_INCLUDE_DIR:PATH=/opt/local/libexec/qt5/include/QtCrypto \
-DQCA_LIBRARY:FILEPATH=/opt/local/libexec/qt5/lib/libqca-qt5.dylib \
-DQSCINTILLA_INCLUDE_DIR:PATH=/opt/local/libexec/qt5/include \
-DQSCINTILLA_LIBRARY:FILEPATH=/opt/local/libexec/qt5/lib/libqscintilla2_qt5.dylib \
-DQTKEYCHAIN_INCLUDE_DIR:PATH=/usr/local/include/qt5keychain \
-DQTKEYCHAIN_LIBRARY:FILEPATH=/usr/local/lib/libqt5keychain.dylib \
-DQT_LRELEASE_EXECUTABLE:FILEPATH=/opt/local/libexec/qt5/bin/lrelease \
```

The "-DWITH_GRASS7:BOOL=ON" option fails to find grass7 installed by MacPorts in /opt/local/share/grass-7.2.2.

As you say, pyqt4 is hardcoded in a few places in mac/cmake/1qt.cmake.in:

```
QGIS-2.99$ grep -i pyqt4 mac/cmake/1qt.cmake.in
# MESSAGE (STATUS "ditto ${QARCHS} \"${PYQT4MOD}\" \"${QGISPYDIR}/${MODSUBPATH}\"")
MESSAGE (STATUS " PyQt4 module ${MODNAME} not found")
UNSET(PYQT4MOD)
EXECUTE_PROCESS (COMMAND ditto ${QARCHS} "@PYQT4_BIN_DIR@/${PU}" "${QBINDIR}")
EXECUTE_PROCESS (COMMAND sed -E "s, ./PyQt4/uic/pyuic.py, \"$(/usr/bin/dirname \"${0}\")/../../Resources/python/PyQt4/uic/pyuic.py\",",
"@PYQT4_BIN_DIR@/pyuic4"
```

Is the goal to support both pyqt4 and 5?

Cheers,
David

#3 - 2019-03-09 04:28 PM - Giovanni Manghi

- Status changed from Open to Feedback

Please check if this issue is still valid on QGIS 3.4.5 or 3.6.