

QGIS Application - Bug report #16034

generated build.make-files do not contain correct PyQt4-directory. Error: sip: Unable to find file "QtXml/QtXmlmod.sip".

2017-01-03 10:18 AM - Drei Eck

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Build/Install	
Affected QGIS version:	2.18.2	Regression?: No
Operating System:	arch linux	Easy fix?: No
Pull Request or Patch supplied:		Resolution: worksforme
Crashes QGIS or corrupts data:		Copied to github as #: 23949

Description

When building qgis 2.18.2, somewhere in the configuration the correct directory for PyQt4 does not get propagated everywhere:

In the directory where the build takes place, the files build.cmake in the directories python/CMakeFiles/[...].dir/ contain -I /usr/share/sip instead of the needed -I /usr/share/sip/PyQt4

Complete list of affected files for me (others may be affected as well when different build options are used), within the build directory:

```
python/CMakeFiles/generate_sip_qgis._analysis_cpp_files.dir/build.make
python/CMakeFiles/generate_sip_qgis._core_cpp_files.dir/build.make
python/CMakeFiles/generate_sip_qgis._gui_cpp_files.dir/build.make
python/CMakeFiles/generate_sip_qgis._networkanalysis_cpp_files.dir/build.make
python/CMakeFiles/python_module_qgis__analysis.dir/build.make
python/CMakeFiles/python_module_qgis__core.dir/build.make
python/CMakeFiles/python_module_qgis__gui.dir/build.make
python/CMakeFiles/python_module_qgis__networkanalysis.dir/build.make
python/CMakeFiles/python_module_qgis__server.dir/build.make
```

The build error which is encountered by this is:

```
[...]
[ 97%] Generating gui/sip_guipart0.cpp, gui/sip_guipart1.cpp, gui/sip_guipart2.cpp, gui/sip_guipart3.cpp

sip: Unable to find file "QtXml/QtXmlmod.sip"
make[2]: *** [python/CMakeFiles/python_module_qgis__gui.dir/build.make:633: python/gui/sip_guipart0.cpp] Error 1
make[2]: *** Deleting file 'python/gui/sip_guipart0.cpp'
make[1]: *** [CMakeFiles/Makefile2:4257: python/CMakeFiles/python_module_qgis__gui.dir/all] Error 2
make: *** [Makefile:150: all] Error 2
```

A quick fix is to change the content of those files after the cmake-run and before the make-run. For me, the following snippet does do it, executed within the build directory, after running cmake, before running make:

```
_pyqt4_sip_dir="/usr/share/sip/PyQt4"
sed -i "s| /usr/share/sip | ${_pyqt4_sip_dir} |"
python/CMakeFiles/{python_module_qgis__analysis,python_module_qgis__gui,python_module_qgis__server,generate_sip_qgis._analysis_
```

```
._analysis_cpp_files,python_module_qgis__core,generate_sip_qgis._core_cpp_files,generate_sip_qgis._gui_cpp_files,generate_sip_qgis._networkanalysis_cpp_files,python_module_qgis__networkanalysis}.dir/build.make
```

Leading to this error, I build qgis the following way:

```
mkdir build
cd build
```

```
_pyqt4_sip_dir="/usr/share/sip/PyQt4"
```

```
cmake -G "Unix Makefiles" ../\
-DMAKE_INSTALL_PREFIX=/usr \
-DQGIS_MANUAL_SUBDIR=share/man \
-DENABLE_TESTS=FALSE \
-DCMAKE_SKIP_RPATH=TRUE \
-DPYTHON_EXECUTABLE=/usr/bin/python2 \
```

```
-DWITH_INTERNAL_{DATEUTIL,FUTURE,HTTPLIB2,JINJA2,NOSE2,OWSLIB,PYGMENTS,PYTZ,QWTPOLAR,SIX,WEBKIT_BINDINGS,
_BINDINGS,YAML}=OFF \
-DWITH_INTERNAL_{QEXTSERIALPORT}=ON \
-DPYQT4_SIP_DIR="${_pyqt4_sip_dir}" \
-DWITH_SERVER=ON \
-DWITH_GLOBE=ON \
-DWITH_SERVER=ON \
-DWITH_GLOBE=ON \
-DWITH_GRASS=OFF \
-DWITH_GRASS7=ON \
-DGRASS_PREFIX7=/opt/grass \
-DWITH_APIDOC=OFF \
-DWITH_ASTYLE=OFF \
-DWITH_BINDINGS=ON \
-DWITH_CUSTOM_WIDGETS=ON \
-DWITH_DESKTOP=ON \
-DWITH_ORACLE=OFF \
-DWITH_POSTGRESQL=ON \
-DWITH_PYSPATIALITE=ON \
-DWITH_QSPATIALITE=ON \
-DWITH_QTMOBILITY=ON \
-DWITH_QTWEBKIT=ON \
-DWITH_QWTPOLAR=ON \
-DWITH_STAGED_PLUGINS=ON \
-DWITH_TOUCH=ON \
-DWITH_TXT2TAGS_PDF=OFF \
```

```
make
```

The output of the cmake-run is:

```
-- QGIS version: 2.18.2 Las Palmas (21802)
```

```
-- Found GRASS 7: /opt/grass (7.0.5, off_t size = )
-- Found Proj: /usr/lib64/libproj.so
-- Found GEOS: /usr/lib/libgeos_c.so (3.5.0)
-- Found GDAL: /usr/lib/libgdal.so (2.1.1)
-- Found Expat: /lib64/libexpat.so
-- Found Spatialindex: /usr/lib64/libspatialindex.so
-- Found Qwt: /usr/lib64/libqwt.so (6.1.3)
-- Found Sqlite3: /usr/lib64/libsqlite3.so
-- Found PostgreSQL: /usr/lib/libpq.so
-- Found Spatialite: /usr/lib64/libspatialite.so
-- Qt WebKit support enabled
-- Found Qt version: 4.8.7
-- Using QtMobility version: system's default
-- QtMobility version: 1.2.0
-- Touch support enabled
-- Found QScintilla2: /usr/lib64/libqscintilla2.so (2.9.3)
-- Found QCA: /usr/lib64/libqca.so (2.1.1)
-- Found QCA OpenSSL plugin
-- Pedantic compiler settings enabled
-- Found Python executable: /usr/bin/python2
-- Found Python version: 2.7.13
-- Found Python library: /usr/lib64/libpython2.7.so
-- Found PyQt4 version: 4.10.4-snapshot-e52357d82574
-- Found SIP version: 4.18.1
-- Found QScintilla2 PyQt module: 2.9.3
-- Found QwtPolar: /usr/lib64/libqwt polar.so
-- Found GSL: -L/usr/lib -lgsl -lgslcblas -lm
-- Found FCGI: /usr/lib64/libfcgi.so
-- Qsci sip file not found - disabling bindings for derived classes
-- Configuring done
-- Generating done
-- Build files have been written to: /tmp/qgis/src/qgis-2.18.2/build
```

History

#1 - 2017-05-01 01:01 AM - Giovanni Manghi

- *Regression? set to No*

- *Easy fix? set to No*

#2 - 2019-02-23 02:07 PM - matteo ghetta

- *Description updated*

Is this still valid with QGIS 3, Qt 5 and python 3?

#3 - 2019-02-23 10:41 PM - Giovanni Manghi

- *Status changed from Open to Feedback*

matteo ghetta wrote:

2025-04-27

| *Is this still valid with QGIS 3, Qt 5 and python 3?*

you must put the ticket in feedback mode when you ask a question to the issuer.

#4 - 2019-02-27 10:57 AM - Drei Eck

matteo ghetta wrote:

| *Is this still valid with QGIS 3, Qt 5 and python 3?*

I cannot tell, I don't build QGIS anymore from source due to complicatedness, an rather install prebuilt packages when I get into the situation that I want to do something with QGIS.

#5 - 2019-02-27 11:40 AM - Jürgen Fischer

- *Resolution set to worksforme*
- *Status changed from Feedback to Closed*