

QGIS Application - Bug report #13678

qgis master fails to build with rpath and geometrychecker plugin

2015-10-26 12:01 PM - Donovan Cameron

Status:	Closed		
Priority:	Severe/Regression		
Assignee:			
Category:	C++ plugins/Geometry Checker		
Affected QGIS version:	master	Regression?:	No
Operating System:		Easy fix?:	No
Pull Request or Patch supplied:	No	Resolution:	fixed/implemented
Crashes QGIS or corrupts data:	No	Copied to github as #:	21710

Description

I'm trying to build QGIS (master, r29356, a0a44f2) on Arch Linux 64-bit and when it tries to compile the geometrychecker plugin it fails with a bunch of "undefined reference to vtable/typeinfo" errors:

```
[ 81%] Linking CXX shared module ../../output/lib/qgis/plugins/libgeometrycheckerplugin.so
CMakeFiles/geometrycheckerplugin.dir/qgsgeometrycheckerplugin.cpp.o: In function
`QgsGeometryCheckerPlugin::QgsGeometryCheckerPlugin(QgisInterface*)'
qgsgeometrycheckerplugin.cpp:(.text+0x135): undefined reference to `vtable for QgsGeometryCheckerPlugin'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryanglecheck.cxx.o: In function
`QgsGeometryAngleCheck::qt_metacast(char const*)'
moc_qgsgeometryanglecheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryanglecheck.cxx.o: In function
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moc_qgsgeometryanglecheck.cxx:(.text+0x81): undefined reference to `QgsGeometryCheck::qt_metacall(QMetaObject::Call, int, void**)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryanglecheck.cxx.o: In function
`QgsGeometryAngleCheck::~QgsGeometryAngleCheck()'
moc_qgsgeometryanglecheck.cxx:(.text._ZN21QgsGeometryAngleCheckD2Ev[_ZN21QgsGeometryAngleCheckD5Ev]+0x3): undefined
reference to `vtable for QgsGeometryCheck'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryanglecheck.cxx.o: In function
`QgsGeometryAngleCheck::~QgsGeometryAngleCheck()'
moc_qgsgeometryanglecheck.cxx:(.text._ZN21QgsGeometryAngleCheckD0Ev[_ZN21QgsGeometryAngleCheckD5Ev]+0x3): undefined
reference to `vtable for QgsGeometryCheck'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryanglecheck.cxx.o:(.data.rel.ro._ZTI21QgsGeometryAngleCheck[_ZTI
1QgsGeometryAngleCheck]+0x10): undefined reference to `typeinfo for QgsGeometryCheck'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryanglecheck.cxx.o:(.data.rel.ro+0x0): undefined reference to
`QgsGeometryCheck::staticMetaObject'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryareacheck.cxx.o: In function
`QgsGeometryAreaCheck::qt_metacast(char const*)'
moc_qgsgeometryareacheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryareacheck.cxx.o: In function
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moc_qgsgeometryareacheck.cxx:(.text._ZN20QgsGeometryAreaCheckD2Ev[_ZN20QgsGeometryAreaCheckD5Ev]+0x3): undefined
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryareacheck.cxx.o: In function
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryareacheck.cxx.o:(.data.rel.ro+0x0): undefined reference to `QgsGeometryCheck::staticMetaObject'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrydegeneratepolygoncheck.cxx.o: In function `QgsGeometryDegeneratePolygonCheck::qt_metacast(char const*)'
moc_qgsgeometrydegeneratepolygoncheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrydegeneratepolygoncheck.cxx.o: In function `QgsGeometryDegeneratePolygonCheck::~QgsGeometryDegeneratePolygonCheck()'
moc_qgsgeometrydegeneratepolygoncheck.cxx:(.text._ZN33QgsGeometryDegeneratePolygonCheckD2Ev[_ZN33QgsGeometryDegeneratePolygonCheckD5Ev]+0x3): undefined reference to `vtable for QgsGeometryCheck'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrydegeneratepolygoncheck.cxx.o:(.data.rel.ro+0x0): undefined reference to `QgsGeometryCheck::staticMetaObject'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryduplicatecheck.cxx.o: In function `QgsGeometryDuplicateCheck::qt_metacast(char const*)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryduplicatecheck.cxx.o: In function `QgsGeometryDuplicateCheck::~QgsGeometryDuplicateCheck()'
moc_qgsgeometryduplicatecheck.cxx:(.text._ZN25QgsGeometryDuplicateCheckD2Ev[_ZN25QgsGeometryDuplicateCheckD5Ev]+0x3): undefined reference to `vtable for QgsGeometryCheck'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryduplicatenodescheck.cxx.o: In function `QgsGeometryDuplicateNodesCheck::~QgsGeometryDuplicateNodesCheck()'
moc_qgsgeometryduplicatenodescheck.cxx:(.text._ZN30QgsGeometryDuplicateNodesCheckD2Ev[_ZN30QgsGeometryDuplicateNodesCheckD5Ev]+0x3): undefined reference to `vtable for QgsGeometryCheck'

CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryduplicatenodescheck.cxx.o: In function
`QgsGeometryDuplicateNodesCheck::~~QgsGeometryDuplicateNodesCheck()'
moc_qgsgeometryduplicatenodescheck.cxx:(.text._ZN30QgsGeometryDuplicateNodesCheckD0Ev[_ZN30QgsGeometryDuplicateNode
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryduplicatenodescheck.cxx.o:(.data.rel.ro._ZTI30QgsGeometryDuplicat
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`QgsGeometryGapCheck::~~QgsGeometryGapCheck()'
moc_qgsgeometrygapcheck.cxx:(.text._ZN19QgsGeometryGapCheckD2Ev[_ZN19QgsGeometryGapCheckD5Ev]+0x3): undefined
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrygapcheck.cxx.o:(.data.rel.ro._ZTI19QgsGeometryGapCheck[_ZTI19
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrymultipartcheck.cxx.o: In function
`QgsGeometryMultipartCheck::qt_metacast(char const*)'
moc_qgsgeometrymultipartcheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrymultipartcheck.cxx.o: In function
`QgsGeometryMultipartCheck::qt_metacall(QMetaObject::Call, int, void**)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrymultipartcheck.cxx.o:(.data.rel.ro+0x0): undefined reference to
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrycontainedcheck.cxx.o: In function
`QgsGeometryContainedCheck::qt_metacast(char const*)'
moc_qgsgeometrycontainedcheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrycontainedcheck.cxx.o: In function
`QgsGeometryContainedCheck::qt_metacall(QMetaObject::Call, int, void**)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrycontainedcheck.cxx.o: In function
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3): undefined reference to `vtable for QgsGeometryCheck'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryoverlapcheck.cxx.o: In function
`QgsGeometryOverlapCheck::qt_metacast(char const*)'
moc_qgsgeometryoverlapcheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryoverlapcheck.cxx.o: In function
`QgsGeometryOverlapCheck::~QgsGeometryOverlapCheck()'
moc_qgsgeometryoverlapcheck.cxx:(.text._ZN23QgsGeometryOverlapCheckD2Ev[_ZN23QgsGeometryOverlapCheckD5Ev]+0x3):
undefined reference to `vtable for QgsGeometryCheck'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryoverlapcheck.cxx.o: In function
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undefined reference to `vtable for QgsGeometryCheck'
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TI23QgsGeometryOverlapCheck]+0x10): undefined reference to `typeinfo for QgsGeometryCheck'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryoverlapcheck.cxx.o:(.data.rel.ro+0x0): undefined reference to
`QgsGeometryCheck::staticMetaObject'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrysegmentlengthcheck.cxx.o: In function
`QgsGeometrySegmentLengthCheck::qt_metacast(char const*)'
moc_qgsgeometrysegmentlengthcheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrysegmentlengthcheck.cxx.o: In function
`QgsGeometrySegmentLengthCheck::qt_metacall(QMetaObject::Call, int, void**)'

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moc_qgsgeometrysegmentlengthcheck.cxx:(.text+0x81): undefined reference to `QgsGeometryCheck::qt_metacall(QMetaObject::Call, int, void**)'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrysegmentlengthcheck.cxx.o: In function
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`QgsGeometryCheck::staticMetaObject'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryselfintersectioncheck.cxx.o: In function
`QgsGeometrySelfIntersectionCheck::qt_metacast(char const*)'
moc_qgsgeometryselfintersectioncheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryselfintersectioncheck.cxx.o: In function
`QgsGeometrySelfIntersectionCheck::~~QgsGeometrySelfIntersectionCheck()'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometryselfintersectioncheck.cxx.o:(.data.rel.ro+0x0): undefined reference to
`QgsGeometryCheck::staticMetaObject'
CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrysliverpolygoncheck.cxx.o: In function
`QgsGeometrySliverPolygonCheck::~~QgsGeometrySliverPolygonCheck()'
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moc_qgsgeometrysliverpolygoncheck.cxx:(.text._ZN29QgsGeometrySliverPolygonCheckD0Ev[_ZN29QgsGeometrySliverPolygonChec
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrytypecheck.cxx.o: In function
`QgsGeometryTypeCheck::qt_metacast(char const*)'
moc_qgsgeometrytypecheck.cxx:(.text+0x67): undefined reference to `QgsGeometryCheck::qt_metacast(char const*)'
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrytypecheck.cxx.o: In function
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CMakeFiles/geometrycheckerplugin.dir/checks/moc_qgsgeometrytypecheck.cxx.o:(.data.rel.ro+0x0): undefined reference to
`QgsGeometryCheck::staticMetaObject'
collect2: error: ld returned 1 exit status
src/plugins/geometry_checker/CMakeFiles/geometrycheckerplugin.dir/build.make:1377: recipe for target
'output/lib/qgis/plugins/libgeometrycheckerplugin.so' failed
make[2]: *** [output/lib/qgis/plugins/libgeometrycheckerplugin.so] Error 1
CMakeFiles/Makefile2:3232: recipe for target 'src/plugins/geometry_checker/CMakeFiles/geometrycheckerplugin.dir/all' failed
make[1]: *** [src/plugins/geometry_checker/CMakeFiles/geometrycheckerplugin.dir/all] Error 2
Makefile:149: recipe for target 'all' failed
make: *** [all] Error 2
```

I've been able to build QGIS 2.12.0 (current release, r5, g8347a4b) without errors and with the geometrychecker plugin.

History

#1 - 2015-10-26 12:03 PM - Donovan Cameron

Forgot to mention that the QGIS Master version I'm using has some changes in cmake to allow side-by-side installations with qgis (release and ltr) through the rpath options.

Here's the cmake options I've got:

```
cmake -G "Unix Makefiles" ../\
-Wno-dev \
-DCMAKE_SKIP_BUILD_RPATH=FALSE \
-DCMAKE_BUILD_WITH_INSTALL_RPATH=FALSE \
-DCMAKE_INSTALL_RPATH=/opt/$pkgname/lib \
-DCMAKE_INSTALL_RPATH_USE_LINK_PATH=FALSE \
-DCMAKE_INSTALL_PREFIX=/opt/$pkgname/ \
-DENABLE_TESTS=OFF \
-DQGIS_MANUAL_SUBDIR=man \
-DPYTHON_EXECUTABLE=/usr/bin/python2 \
-DPYTHON_LIBRARY=/usr/lib/libpython2.7.so \
-DPYTHON_INCLUDE_PATH=/usr/include/python2.7 \
-DPYTHON_SITE_PACKAGES_DIR=/usr/lib/python2.7/site-packages \
-DPYQT4_SIP_DIR=/usr/share/sip/PyQt4 \
-DQSCI_SIP_DIR=/usr/share/sip/PyQt4 \
-DQT_QMAKE_EXECUTABLE=/usr/bin/qmake-qt4 \
-DWITH_INTERNAL_QWTPOLAR=FALSE \
-DQWTPOLAR_LIBRARY=/usr/lib/libqwt polar.so \
-DQWT_LIBRARY=/usr/lib/libqwt.so \
-DWITH_SERVER=TRUE \
-DWITH_SERVER_PLUGINS=TRUE \
-DWITH_GRASS7=ON \
-DGRASS_PREFIX7=/opt/grass \
-DGRASS_INCLUDE_DIR7=/opt/grass/include/ \
-DWITH_GRASS=ON \
-DGRASS_PREFIX=/opt/grass64 \
-DGRASS_INCLUDE_DIR=/opt/grass64/include
```

#2 - 2015-10-26 01:01 PM - Nyal Dawson

- Resolution set to fixed/implemented
- Status changed from Open to Closed