# QGIS Application - Bug report #7495
# compile error with Qwt 6.1

2013-04-02 07:27 PM - William Kyngesburye

| | | | |
|---|---|---|---|
| **Status:** | Closed | | |
| **Priority:** | Normal | | |
| **Assignee:** | | | |
| **Category:** | GUI | | |
| **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 #:** | 16446 |

**Description**

Something is causing a compile error with Qwt 6.1.0(rc3) (using clang on OS X):

```
[ 27%] Building CXX object src/gui/CMakeFiles/qgis_gui.dir/raster/qgsrasterhistogramwidget.cpp.o
/Users/Shared/src/qgis/git/Quantum-GIS/src/gui/raster/qgsrasterhistogramwidget.cpp:880:26: error:
    no matching function for call to 'findClosestTickVal'
   leHistoMin->setText( findClosestTickVal( pos.x(), ...
                ^~~~~~~~~~~~~~~~~
/Users/Shared/src/qgis/git/Quantum-GIS/src/gui/raster/qgsrasterhistogramwidget.cpp:844:9: note:
    candidate function not viable: no known conversion from
    'const QwtScaleDiv' to 'QwtScaleDiv *' for 2nd argument;
QString findClosestTickVal( double target, QwtScaleDiv * scale, int div = 100 )
      ^
```

It compiles without error with Qwt 6.0.2 and 5.2.2.

**Related issues:**

| | | |
|---|---|---|
| Related to QGIS Application - Bug report # 13156: Add qwtpolar-1.1 embedded c... | **Closed** | **2015-07-26** |

### Associated revisions

**Revision 04119d88 - 2013-04-06 11:37 AM - Jürgen Fischer**

establish that Qwt 6.1 is not currently supported with internal QwtPolar (closes #7495)

### History

**#1 - 2013-04-06 02:43 AM - Jürgen Fischer**

*- Status changed from Open to Closed*

Fixed in changeset commit:"04119d880b0e893a159279dd89ab3d38717d75f9".

**#2 - 2013-12-10 11:38 PM - Xavier Fung**

*- Status changed from Closed to Reopened*

ArchLinux and Fedora 20 now offers Qwt 6.1.0. Is it possible to update QwtPolar to support Qwt 6.1.0?

#### #3 - 2013-12-11 01:05 AM - Dražen Odobašić

fortunately, qwtpolar 1.1.0-rc1 has fixes for qwt 6.1.0 (http://sourceforge.net/p/qwtpolar/code/commit_browser) - qgis 2.0 compiles if you use external qwtpolar-1.1.0rc1 library, but I get a '*** Error in `qgis': realloc(): invalid old size: 0x0000000000cc24c0 ***' when trying to run it

#### #4 - 2013-12-11 01:52 AM - Xavier Fung

I can build with external qwtpolar (using qwtpolar-svn) and a partial revert of the CMakeLists.txt changes in the above changeset. Below is the full backtrace. On the 4th line I can see some Qt 5 sonames.

```
[xavier@arch qgis-git]$ qgis
*** Error in `qgis': realloc(): invalid pointer: 0x0000000000aeb500 ***
======= Backtrace: =========
/usr/lib/libc.so.6(+0x72e5f)[0x7f8bd5ce6e5f]
/usr/lib/libc.so.6(+0x7862e)[0x7f8bd5cec62e]
/usr/lib/libc.so.6(realloc+0x24a)[0x7f8bd5cf02ea]
/usr/lib/libQt5Core.so.5(_ZN9QListData7reallocEi+0x1e)[0x7f8bd155bbce]
/usr/lib/libQt5Core.so.5(_ZN9QListData6appendEi+0x6a)[0x7f8bd155bc8a]
/usr/lib/libQt5Core.so.5(+0x19ad5c)[0x7f8bd160cd5c]
/usr/lib/libQt5Core.so.5(_Z21qRegisterResourceDataiPKhS0_S0_+0x2b9)[0x7f8bd1608df9]
/usr/lib/libQt5Core.so.5(+0x75f73)[0x7f8bd14e7f73]
/lib64/ld-linux-x86-64.so.2(+0xe8ea)[0x7f8bdd0ac8ea]
/lib64/ld-linux-x86-64.so.2(+0xe9d3)[0x7f8bdd0ac9d3]
/lib64/ld-linux-x86-64.so.2(+0x12aa)[0x7f8bdd09f2aa]
```

#### #5 - 2013-12-11 01:55 AM - Matthias Kuhn

looks like qwtpolar (or something else) is built against qt5, while qgis is built against qt4.

#### #6 - 2013-12-11 01:59 AM - Jürgen Fischer

Xavier Fung wrote:

> *and a partial revert of the CMakeLists.txt changes in the above changeset.*

Why?  That should only be relevant if you have WITH_INTERNAL_QWTPOLAR=TRUE.

#### #7 - 2013-12-11 03:08 AM - Xavier Fung

It seems the error goes to QwtPolar - which needs to be built against Qt4. After I have recompiled QwtPolar and used the following cmake options (no patch), trunk builds again.

-DWITH_INTERNAL_QWTPOLAR=OFF
-DQWTPOLAR_INCLUDE_DIR=/usr/include/qwt

Related discussion can be found here:
[[https://aur.archlinux.org/packages/qgis-git/]]

**#8 - 2013-12-11 03:17 AM - Jürgen Fischer**

*- Resolution set to fixed/implemented*

*- Status changed from Reopened to Closed*