

QGIS Application - Bug report #15047

ASSERT failure in QVector<T>::at: "index out of range" in qgis_attributetabletest (TestQgsAttributeTable)

2016-06-16 08:10 AM - Sandro Santilli

Status: Closed	
Priority: Normal	
Assignee: Even Rouault	
Category: Attribute table	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	Copied to github as #: 22992

Description

As of commit:8868303dbd4fad26eeb88bc5a18ba3ffe5a0e719 I get an error (among many) in qgis_attributetabletest:

```
$ output/bin/qgis_attributetabletest
[...]
QDEBUG : TestQgsAttributeTable::testFieldCalculation() src/core/qgscoordinatereferencesystem.cpp: 999: (findMatchingProj)
[1ms] entered.
QDEBUG : TestQgsAttributeTable::testFieldCalculation() src/core/qgscoordinatereferencesystem.cpp: 1041: (findMatchingProj)
[4ms] -----> MATCH FOUND in srs.db srsid: 3239
QDEBUG : TestQgsAttributeTable::testFieldCalculation() src/core/qgscoordinatereferencesystem.cpp: 653: (createFromProj4)
[1ms] globbing search for srsid returned srsid: 3239
QFATAL : TestQgsAttributeTable::testFieldCalculation() ASSERT failure in QVector<T>::at: "index out of range", file
/usr/include/qt4/QtCore/qvector.h, line 351
FAIL! : TestQgsAttributeTable::testFieldCalculation() Received a fatal error.
  Loc: [Unknown file(0)]
Totals: 1 passed, 1 failed, 0 skipped
***** Finished testing of TestQgsAttributeTable *****
Aborted (core dumped)
```

History

#1 - 2016-06-16 09:49 AM - Sandro Santilli

Backtrace:

```
==17926== Process terminating with default action of signal 6 (SIGABRT): dumping core
==17926== at 0xB46CC37: raise (raise.c:56)
==17926== by 0xB470027: abort (abort.c:89)
==17926== by 0x4EA6C91: qt_message_output(QtMsgType, char const*) (in /usr/lib/x86_64-linux-gnu/libQtCore.so.4.8.6)
==17926== by 0x4EA6FF8: ??? (in /usr/lib/x86_64-linux-gnu/libQtCore.so.4.8.6)
==17926== by 0x4EA7803: qFatal(char const*, ...) (in /usr/lib/x86_64-linux-gnu/libQtCore.so.4.8.6)
==17926== by 0x7A2D61C: QVector<int>::at(int) const (qvector.h:351)
==17926== by 0x7CB3B8D: QgsAttributeTableFilterModel::headerData(int, Qt::Orientation, int) const (qgsattributetablefiltermodel.cpp:104)
==17926== by 0xA941579: QHeaderView::sectionSizeFromContents(int) const (in /usr/lib/x86_64-linux-gnu/libQtGui.so.4.8.6)
==17926== by 0xA936079: QHeaderView::sizeHint() const (in /usr/lib/x86_64-linux-gnu/libQtGui.so.4.8.6)
==17926== by 0xA9621F5: QTableView::updateGeometries() (in /usr/lib/x86_64-linux-gnu/libQtGui.so.4.8.6)
==17926== by 0xA957555: QTableView::columnCountChanged(int, int) (in /usr/lib/x86_64-linux-gnu/libQtGui.so.4.8.6)
==17926== by 0x4FC7879: QMetaObject::activate(QObject*, QMetaObject const*, int, void**) (in /usr/lib/x86_64-linux-gnu/libQtCore.so.4.8.6)
```

The offending code snippet [mColumnMapping.at(0) aborts due to mColumnMapping being empty]:

```
QVariant QgsAttributeTableFilterModel::headerData( int section, Qt::Orientation orientation, int role ) const
{
    if ( orientation == Qt::Horizontal )
    {
        if ( mColumnMapping.at( section ) == -1 && role == Qt::DisplayRole )
            return tr( "Actions" );
        else
            return QSortFilterProxyModel::headerData( section, orientation, role );
    }
    else
    {
        if ( role == Qt::DisplayRole )
            return section + 1;
        else
        {
            int sourceSection = mapToSource( index( section, mColumnMapping.at( 0 ) == -1 ? 1 : 0 ) ).row();
            return sourceModel()->headerData( sourceSection, orientation, role );
        }
    }
}
```

#2 - 2016-06-20 03:49 AM - Even Rouault

- Assignee set to Even Rouault

This also cause a crash when displaying the attribute table on a layer with no attribute fields.

#3 - 2016-06-20 03:57 AM - Even Rouault

- % Done changed from 0 to 100
- Resolution set to fixed/implemented
- Status changed from Open to Closed

Fixed by commit:1cd7808

#4 - 2016-12-18 11:47 PM - Tudor Bărăscu

- Status changed from Closed to Reopened

Hello,

I just built the 2.18.2 and I get the crash with the same error message:

Fatal: ASSERT failure in QVector<T>::at: "index out of range", file /usr/include/qt4/QtCore/qvector.h, line 351

Stacktrace (piped through c++filt):

/home/web/qgis-stable/bin/./qgis(+0x6ac9)[0x55b79f14fac9]

/home/web/qgis-stable/bin/./qgis(+0x6ddf)[0x55b79f14fddf]

/usr/lib/x86_64-linux-gnu/libQtCore.so.4(qt_message_output(QtMsgType, char const*)+0x2f)[0x7fde64691e2f]

/usr/lib/x86_64-linux-gnu/libQtCore.so.4(+0x70301)[0x7fde64692301]

/usr/lib/x86_64-linux-gnu/libQtCore.so.4(qFatal(char const*, ...)+0xa1)[0x7fde64692c21]

/home/web/qgis-stable/lib/libqgis_gui.so.2.18.2(+0x224bfd)[0x7fde66746bfd]

/home/web/qgis-stable/lib/libqgis_gui.so.2.18.2(QgsAttributeTableFilterModel::headerData(int, Qt::Orientation, int) const+0x57)[0x7fde6687d543]

/usr/lib/x86_64-linux-gnu/libQtGui.so.4(QHeaderView::sectionSizeFromContents(int) const+0x5d)[0x7fde64047ead]

The project that I'm using works flawlessly under 2.14.10. The crash happens when I open the attribute table of a certain layer.

Thanks for your great work,

Tudor

#5 - 2016-12-18 11:59 PM - Tudor Bărăscu

The error only comes up if I open the 2.14 project first time.

If I save it in 2.18.2 it works afterwards.

Sorry for the noise.

#6 - 2016-12-19 12:00 AM - Tudor Bărăscu

- Status changed from Reopened to Closed