QGIS Application - Bug report #10762
2.4 build failure with old gcc

2014-07-01 01:18 AM - landry Landry Breuil

Status:	Closed		
Priority:	Normal		
Assignee:	landry Landry Breuil		
Category:	Build/Install		
Affected QGIS version:	2.4.0	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	19145

Description

As reported in http://osgeo-org.1560.x6.nabble.com/Compiling-QGIS-2-4-with-GCC-4-4-debian-squeeze-td5146777.html, and i'm also facing that issue on OpenBSD with GCC 4.2.1, build fails the same way on several files.

```
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/delimitedtext/qgsdelimitedtextfeatureiterator.cpp: In constructor
'QgsDelimitedTextFeatureIterator::QgsDelimitedTextFeatureIterator(QgsDelimitedTextFeatureSource*, bool, const
QgsFeatureRequest&)':
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/delimitedtext/qgsdelimitedtextfeatureiterator.cpp:29: error: class
'QgsDelimitedTextFeatureIterator' does not have any field named 'QgsAbstractFeatureIteratorFromSource'
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/delimitedtext/qgsdelimitedtextfeatureiterator.cpp:29: error: no matching
function for call to
'QgsAbstractFeatureIteratorFromSource<QgsDelimitedTextFeatureSource>::QgsAbstractFeatureIteratorFromSource()'
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/delimitedtext/../../core/qgsfeatureiterator.h:113: note: candidates are:
QgsAbstractFeatureIteratorFromSource< <template-parameter-1-1> >::QgsAbstractFeatureIteratorFromSource(T*, bool, const
QgsFeatureRequest&) [with T = QgsD
elimitedTextFeatureSource]
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/delimitedtext/../../core/qgsfeatureiterator.h:111: note:
QgsAbstractFeatureIteratorFromSource<QgsDelimitedTextFeatureSource>::QgsAbstractFeatureIteratorFromSource(const
QgsAbstractFeatureIteratorFromSource<QgsD
elimitedTextFeatureSource>&)
```

A simple fix (that seem to work so far for me with gcc 4.2.1) is for all occurences of constructors inheriting from QgsAbstractFeatureIteratorFromSource calling their parent class constructor to specify the template type for source. Ie:

```
--- src/providers/wfs/qgswfsfeatureiterator.cpp.orig    Tue Jul  1 09:51:49 2014
+++ src/providers/wfs/qgswfsfeatureiterator.cpp Tue Jul  1 09:52:01 2014
@@ -19,7 +19,7 @@
 #include "qgsgeometry.h"

 QgsWFSFeatureIterator::QgsWFSFeatureIterator( QgsWFSFeatureSource* source, bool ownSource, const
QgsFeatureRequest& request )
-    : QgsAbstractFeatureIteratorFromSource( source, ownSource, request )
+    : QgsAbstractFeatureIteratorFromSource<QgsWFSFeatureSource>( source, ownSource, request )
 {
   switch ( request.filterType() )
   {
```

So far, here's the list of occurences i've found in my build (not yet finished)

- src/core/qgsvectorlayerfeatureiterator.cpp
- src/providers/delimitedtext/qgsdelimitedtextfeatureiterator.cpp
- src/providers/gpx/qgsgpxfeatureiterator.cpp
- src/providers/grass/qgsgrassfeatureiterator.cpp
- src/providers/memory/qgsmemoryfeatureiterator.cpp
- src/providers/mssql/qgsmssqlfeatureiterator.cpp
- src/providers/ogr/qgsogrfeatureiterator.cpp
- src/providers/oracle/qgsoraclefeatureiterator.cpp
- src/providers/postgres/qgspostgresfeatureiterator.cpp
- src/providers/spatialite/qgsspatialitefeatureiterator.cpp
- src/providers/wfs/qgswfsfeatureiterator.cpp

If the fix is acceptable, i'll try to provide a pull request against git master...

History

#1 - 2014-07-02 06:43 AM - landry Landry Breuil

More are needed, apparently for all occurences of Ctors inheriting from QgsConnectionPoolGroup

```
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/spatialite/qgsspatialiteconnpool.h: In constructor
'QgsSpatiaLiteConnPoolGroup::QgsSpatiaLiteConnPoolGroup(QString)':
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/spatialite/qgsspatialiteconnpool.h:44: error: class 'QgsSpatiaLiteConnPoolGroup' does not
have any field named 'QgsConnectionPoolGroup'
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/spatialite/qgsspatialiteconnpool.h:44: error: no matching function for call to
'QgsConnectionPoolGroup<QgsSqliteHandle*>::QgsConnectionPoolGroup()'
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/spatialite/../../core/qgsconnectionpool.h:63: note: candidates are:
QgsConnectionPoolGroup<T>::QgsConnectionPoolGroup(const QString&) [with T = QgsSqliteHandle*]
/home/ports/pobj/qgis-2.4.0/qgis-2.4.0/src/providers/spatialite/../../core/qgsconnectionpool.h:52: note:
QgsConnectionPoolGroup<QgsSqliteHandle*>::QgsConnectionPoolGroup(const QgsConnectionPoolGroup<QgsSqliteHandle*>&)
```

similar fix:

```
--- src/providers/spatialite/qgsspatialiteconnpool.h.orig      Wed Jul  2 15:41:30 2014
+++ src/providers/spatialite/qgsspatialiteconnpool.h    Wed Jul  2 15:41:42 2014
@@ -41,7 +41,7 @@ class QgsSpatiaLiteConnPoolGroup : public QObject, pub
    Q_OBJECT

  public:
-   QgsSpatiaLiteConnPoolGroup( QString name ) : QgsConnectionPoolGroup( name ) { initTimer( this ); }
+   QgsSpatiaLiteConnPoolGroup( QString name ) : QgsConnectionPoolGroup<QgsSqliteHandle*>( name ) { initTimer( this ); }

  protected slots:
    void handleConnectionExpired() { onConnectionExpired(); }
```

#2 - 2014-07-04 04:03 PM - Jürgen Fischer

- Category set to Build/Install

#3 - 2014-08-18 06:53 AM - landry Landry Breuil

- File 0001-Fix-build-failure-with-gcc-4.4-bug-10762.patch added

And here's a patch against master, fixing the build for me.

#4 - 2014-11-07 12:43 AM - landry Landry Breuil

- % Done changed from 0 to 80

- Target version set to Future Release - Nice to have

- Assignee set to landry Landry Breuil

Anyone can apply this, before it bitrots ? Or i should do a github pull request ?

#5 - 2014-11-07 03:59 AM - Giovanni Manghi

- Assignee deleted (landry Landry Breuil)

landry - wrote:

> *Anyone can apply this, before it bitrots ? Or i should do a github pull request ?*

I suggest to make a Pull Request on Github, because I'm not sure that patches are reviewed anymore on this bug tracker.

#6 - 2014-12-11 01:55 AM - landry Landry Breuil

- Target version changed from Future Release - Nice to have to Version 2.8

- % Done changed from 80 to 90

- Assignee set to landry Landry Breuil

https://github.com/qgis/QGIS/pull/1728

#7 - 2014-12-15 02:12 AM - Matthias Kuhn

- Status changed from Open to Closed

Merged in commit:581cac7

Thank you very much

Files

0001-Fix-build-failure-with-gcc-4.4-bug-10762.patch	9.67 KB	2014-08-18	landry Landry Breuil