

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:		Resolution:
Crashes QGIS or corrupts data:		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 occurrences 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 occurrences 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 occurrences 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
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