

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. I.e:

```
--- 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