

QGIS Application - Bug report #12771  
error Segmentation fault

2015-05-19 03:42 AM - reiko fuerst

<b>Status:</b>	Closed	
<b>Priority:</b>	High	
<b>Assignee:</b>		
<b>Category:</b>	Data Provider/SpatialLite	
<b>Affected QGIS version:</b>	2.8.2	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	No	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	Yes	<b>Copied to github as #:</b> 20870
<b>Description</b>		
<p>Hi evrybody,</p> <p>since a view days qgis (after an update) crashes when open a sqlite database.</p> <p>message:</p> <pre>src/core/qgsproviderregistry.cpp: 368: (provider) [0ms] Library name is /usr/lib/qgis/plugins/libspatialiteprovider.so</pre> <p>Segmentation fault</p> <p>qgis version 2.9.0-master qt 4.8.7 spatialite-version 4.1.1 debian unstable</p> <p>also tested with the qgis version 2.8.2, same result.</p> <p>is there a solution or workaround to fix that?</p> <p>thanks a lot in advance</p>		

Associated revisions

Revision 252aaab8 - 2015-05-26 02:36 PM - Jürgen Fischer

adopt 'new' spatialite initialization scheme via thin wrapper around sqlite3\_open and sqlite3\_close (fixes #12771)

Revision d7ca1902 - 2015-05-28 12:11 AM - Jürgen Fischer

adopt 'new' spatialite initialization scheme via thin wrapper around sqlite3\_open and sqlite3\_close (fixes #12771)

(cherry picked from commit 252aaab, 23ef9da, d4b72a2, c7cb963 and e255d6c)

History

#1 - 2015-05-19 04:04 AM - Paolo Cavallini

- Status changed from Open to Rejected
- Resolution set to up/downstream

Problem with Debian packaging. They are aware of it, going to fix, hopefully soon.

## #2 - 2015-05-24 03:02 AM - Bas Couwenberg

This issue should be reopened, because qgsspatialiteprovider.cpp uses the deprecated spatialite\_init() method causing the segfault.

The spatialite code in QGIS needs to be ported to use the spatialite\_init\_ex() method instead:

```
python/ext-libs/pyspatialite/src/connection.h:36:// int spatialite_init(int verbose);
python/ext-libs/pyspatialite/src/connection.c:84: spatialite_init(0);
src/providers/spatialite/qgsatialite/qsqsl_spatialite.cpp:551: spatialite_init(0);
src/providers/spatialite/qgsatialite/README:4:spatialite_init(0).
src/providers/spatialite/qgsspatialiteprovider.cpp:136: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:442: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:5061: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:5096: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:5177: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:5367: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:5423: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteprovider.cpp:5536: spatialite_init( 0 );
src/providers/spatialite/qgsspatialiteconnection.cpp:142: spatialite_init( 0 );
src/app/qgsnewspatialitelayerdialog.cpp:384: spatialite_init( 0 );
src/core/qgsofflineediting.cpp:77: spatialite_init( 0 );
src/core/qgsofflineediting.cpp:383: spatialite_init( 0 );
src/analysis/openstreetmap/qgsosmimport.cpp:61: spatialite_init( 0 );
src/analysis/openstreetmap/qgsosmdatabase.cpp:53: spatialite_init( 0 );
```

Since QGIS is the most significant user of pyspatialite and its upstream development has stopped, updating the embedded pyspatialite copy in qgis to fix [pyspatialite issue 24](#) seems the most promising road towards a solution.

See also the comments by Sandro on [qgis-developer](#) about porting QGIS to use spatialite\_init\_ex() instead.

The spatialite\_init() method is highly unlikely to be fixed in Debian and upstream, all software built on top of libspatialite needs to be adapted to use spatialite\_init\_ex(). GDAL did this in 1.11.x, qgis and pyspatialite both don't (yet).

## #3 - 2015-05-24 03:49 AM - Giovanni Manghi

- OS version deleted (*unstable*)
- Operating System deleted (*debian*)
- Category changed from Browser to Data Provider/Spatialite
- Status changed from Rejected to Reopened
- Crashes QGIS or corrupts data changed from No to Yes
- Resolution deleted (*up/downstream*)

## #4 - 2015-05-26 05:37 AM - Jürgen Fischer

- Status changed from Reopened to Closed

Fixed in changeset commit:"252aaab89e5701d1d7c0ec147ce02c8865ffa452".

