

## QGIS Application - Bug report #5105

### Embedded version of spatialite in QGIS conflict with the external one linked to OGR SQLite driver

2012-03-01 12:19 PM - Even Rouault

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Data Provider	
<b>Affected QGIS version:</b> master	<b>Regression?:</b> No
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b> worksforme
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 14866

#### Description

Extract from thread <http://lists.osgeo.org/pipermail/qgis-developer/2012-February/thread.html#18510>

The conclusion is in the last email

Paolo Cavallini cavallini at faunalia.it  
Tue Feb 28 12:42:13 EST 2012

Previous message: [Qgis-developer] Problems with Martin's repo  
Next message: [Qgis-developer] SpatialLite layers invisible when loaded from browser  
Messages sorted by: [ date ] [ thread ] [ subject ] [ author ]

Hi all.  
If I load a SL layer from the browser (from the files list, not from the SL submenu),  
the layer is loaded, and can be exported, but is not displayed: anyone confirms?  
All the best.

--  
Paolo Cavallini - Faunalia  
www.faunalia.eu  
Full contact details at www.faunalia.eu/pc

Paolo Cavallini cavallini at faunalia.it  
Wed Feb 29 02:45:21 EST 2012

Previous message: [Qgis-developer] Import support for PostGIS in browser  
Next message: [Qgis-developer] SpatialLite layers invisible when loaded from browser  
Messages sorted by: [ date ] [ thread ] [ subject ] [ author ]

Il 28/02/2012 20:23, Even Rouault ha scritto:

> I don't confirm. It works for me with both GDAL 1.9.0 and GDAL trunk, at least  
> on the attached simple example.

Confirmed: your sample is ok. The sample file[0] does not load correctly here.  
Thanks.

[0]<http://www.gaia-gis.it/spatialite-2.3.1/test-2.3.zip>

--  
Paolo Cavallini - Faunalia

www.faunalia.eu

Full contact details at [www.faunalia.eu/pc](http://www.faunalia.eu/pc)

Even Rouault [even.rouault@mines-paris.org](mailto:even.rouault@mines-paris.org)

Wed Feb 29 14:09:32 EST 2012

Previous message: [Qgis-developer] SpatialLite layers invisible when loaded from browser

Next message: [Qgis-developer] Offset curve tool

Messages sorted by: [ date ] [ thread ] [ subject ] [ author ]

Le mercredi 29 février 2012 08:45:21, Paolo Cavallini a écrit :

> Il 28/02/2012 20:23, Even Rouault ha scritto:

> > I don't confirm. It works for me with both GDAL 1.9.0 and GDAL trunk, at

> > least on the attached simple example.

>

> Confirmed: your sample is ok. The sample file[0] does not load correctly

> here. Thanks.

I also reproduce the error with the test-2.3 database. The difference with the poly.sqlite that I sent before is that test-2.3 contains no spatial index.

The console has interesting error messages :

```
ERROR 1: In ResetStatement(): sqlite3_prepare(SELECT _rowid_, * FROM 'Towns'  
WHERE MBRIntersects("Geometry", BuildMBR(-213552396.323174118996,  
-167417043.364000141621, 215180205.733174085617, 176566090.844000160694,  
32632))):
```

```
no such function: BuildMBR
```

I'd note that you get the same behaviour when opening from "Open a Vector Layer" (which uses the OGR driver)

What is more interesting is that the same request run from ogrinfo works perfectly....

I'm afraid the reason why it does not work in QGIS is that it has the bad idea of embedding directly libspatialite in /usr/lib/libqgis\_core.so.1.9.90 instead of dynamically linking to the one provided by the system. So I highly suspect a conflict between the libspatialite linked by libgdal.so and the one linked by libqgis\_core, especially if they are not the same version ....

Another point is that the QGIS File Browser only displays the first OGR layer, whereas when opening with "Open a Vector Layer", you can choose among all OGR layers.

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## History

#1 - 2012-03-01 12:25 PM - Volker Fröhlich

Who built your QGIS?

**#2 - 2012-03-01 12:42 PM - Even Rouault**

As far as I'm concerned, UbuntuGIS nightly builds:

ii libqgis1.9.90 1.9.90+git20120227+cda3693~lucid1 Quantum GIS - shared libraries

"objdump -T /usr/lib/libqgis\_core.so.1.9.90 | grep spatialite" clearly shows that spatialite is embedded in it :

```
000000000050dbc8 g DO .rodata 0000000000000006 Base spatialiteversion
00000000003428f0 g DF .text 0000000000000008 Base spatialite_version
00000000004a5770 g DF .text 000000000000011f Base spatialite_init
```

No idea for Paolo

**#3 - 2012-03-01 12:47 PM - Even Rouault**

rouault - wrote:

| *As far as I'm concerned, UbuntuGIS nightly builds:*

Well, correcting myself, I guess it is not UbuntuGIS, but :

deb <http://qgis.org/debian-nightly> lucid main

**#4 - 2012-03-01 01:55 PM - Jürgen Fischer**

rouault - wrote:

| rouault - wrote:  
| | *As far as I'm concerned, UbuntuGIS nightly builds:*  
| | *Well, correcting myself, I guess it is not UbuntuGIS, but :*  
| | [...]

Not sure, but I think the spatialite provider needs spatialite 2.4.0 - lucid is at 2.3.0. The debian package stopped to use the system spatialite in commit:79bda7ff right after the internal spatialite version was updated to 2.4.0-RC4 in commit:cdae0f67.

The browser should probably not rely on OGR to open spatialite tables, but use the spatialite provider.

**#5 - 2012-09-04 12:08 PM - Paolo Cavallini**

- Target version set to Version 2.0.0

**#6 - 2014-06-28 07:41 AM - Jürgen Fischer**

- Target version changed from Version 2.0.0 to Future Release - Lower Priority

**#7 - 2014-10-26 03:30 PM - Jürgen Fischer**

- *Resolution set to worksforme*

- *Status changed from Open to Closed*

internal spatialite is only used when the system spatialite is too old for QGIS. Usually GDAL and QGIS are built against the system's spatialite version.