QGIS Application - Bug report #3507
built-in spatialindex conflicts with external libspatialindex

2011-02-19 11:10 PM - rustychris -

Status:	Closed			
Priority:	Low			
Assignee:				
Category:	Python plugins			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:	Debian	**Easy fix?:**	No	
Pull Request or Patch supplied:	No	**Resolution:**	fixed/implemented	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	13567	

Description

libspatialindex is used by the python rtree module, but when this module is loaded from within a QGIS python plugin, the symbols from the builtin copy of spatialindex collide and render the python rtree module inoperable.

How to reproduce: install the rtree python module. Start QGIS and open a python console:

```
>>> import rtree
>>> p = rtree.index.Property()
>>> p.set_storage(0)
True
>>> p.get_storage()
1
>>>
```

Stepping through in gdb shows that libspatialindex.so:Tools::PropertySet::getProperty is shadowed by a function of the same name in libqgis_core.so.

History

#1 - 2011-03-09 07:30 AM - Volker Fröhlich

By updating the [[SpatialIndex]] wrapper and amending CMakeLists and creating a Cmake script, I managed to build QGIS with a systemwide libspatialindex.

Wonder proposed to update the shipped copy of [[SpatialIndex]] and update the wrapper, so the user has the choice to use either lib.

Doing so, would help your problem, I suppose.

I can provide a patch, but I'm not a 100% sure, everything works correct or that my patch is sound, as I am no C++ programmer. Maybe we should do that after 1.7.

#2 - 2011-03-10 03:22 PM - Borys Jurgiel

The sooner you send it, the sooner JEF&Marco&Tim&Martin will be able to review it ;-)

#3 - 2011-07-25 01:27 PM - Volker Fröhlich

- Pull Request or Patch supplied set to No

Please see #4111

#4 - 2011-12-16 01:49 PM - Giovanni Manghi

- Target version changed from Version 1.7.0 to Version 1.7.4

#5 - 2012-04-16 06:26 AM - Paolo Cavallini

- Affected QGIS version set to master

- Crashes QGIS or corrupts data set to No

- Target version changed from Version 1.7.4 to Version 1.8.0

#6 - 2012-09-04 11:59 AM - Paolo Cavallini

- Target version changed from Version 1.8.0 to Version 2.0.0

#7 - 2012-09-16 03:42 PM - Borys Jurgiel

- Assignee deleted (Borys Jurgiel)

#8 - 2014-06-28 07:38 AM - Jürgen Fischer

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

#9 - 2015-11-20 02:52 AM - Médéric RIBREUX

- Status changed from Open to Closed

- Resolution set to fixed/implemented

Hello, bug triage...

with QGIS 2.13 on Debian, there is no conflict: p.get_storage() returns 0.

I am closing this bug.