

QGIS Application - Bug report #390

GEOS: TopologyException occuring with identify tool

2006-11-14 02:06 PM - neteler-itc-it -

| | |
|--|-------------------------------------|
| Status: Closed | |
| Priority: Low | |
| Assignee: Gary Sherman | |
| Category: Vectors | |
| Affected QGIS version: | Regression?: No |
| Operating System: All | Easy fix?: No |
| Pull Request or Patch supplied: | Resolution: fixed |
| Crashes QGIS or corrupts data: | Copied to github as #: 10449 |

Description

Hi,

via IRC I reported this problem and "wonder" fixed something already:

<http://svn.qgis.org/trac/changeset/6071>

I have now recompiled QGIS and latest 2.x GEOS. The identification now seems to work, but still these warnings appear:

```
Warning: GEOS: [[TopologyException]]: side location conflict (4.33168e+06,2.52514e+06)
Warning: GEOS: [[TopologyException]]: side location conflict (4.34597e+06,2.51173e+06)
Warning: GEOS: [[TopologyException]]: side location conflict (4.39699e+06,2.59723e+06)
```

The sample SHAPE file is here: <http://mpa.itc.it/markus/tmp/qgis/>

It comes with some huge multipolygons.

I also contacted strk who told me (pasted with permission):

```
strk*refrations.net wrote on 11.11.2006 11:32:
> The topology exceptions are not considered real bug, but rather
> a limit of the algorithms. New algorithms in GEOS-3.0.0
> use some heuristics on exception and try to reapply the operation
> on a slightly modified input to reduce likelihood of robustness issues.
>
> I think qgis should be using the C-API, where all of this comes from
> free (and GEOS-2.2.x should have the C-API already, so qgis will be
> binary compatible back to that version of geos). Alternatively you
> can probably still use the C++ api and make it compatible with both
> 2.2.x and 3.0.0 geos by adding some 'using namespace' directives IFF
> major_version > 2.
>
> --strk;
```

Best regards,
Markus

History

#1 - 2007-07-15 06:15 AM - Marco Hugentobler

- Resolution set to fixed
- Status changed from Open to Closed

I'm closing this ticket as it is possible to compile and link qgis against geos 3 (with -DPEDANTIC=off)

#2 - 2009-08-22 12:45 AM - Anonymous

Milestone Version 0.9 deleted