

QGIS Application - Bug report #1424

split feature segfault

2008-11-24 08:56 AM - Martin Dobias

Status:	Closed	
Priority:	Low	
Assignee:	Marco Hugentobler	
Category:	Digitising	
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 #: 11484
Description		
<p>When working with shapefiles, one can consistently crash QGIS when trying to split a polygon.</p> <p>It seems that with [[PostGIS]] layer it doesn't crash.</p> <p>I'm attaching a very simple shapefile with only one polygon where this can be reproduced. Open it, draw a line that intersects the polygon, on right click it will crash.</p> <p>Using SVN trunk 9690, debug version, running on ubuntu.</p>		

History

#1 - 2008-11-25 05:42 AM - Marco Hugentobler

Hi Martin

The example shapefile does not lead to a crash on my system. Which version of geos are you using? I'm using 3.0.0 (also on ubuntu).

Marco

#2 - 2008-11-25 08:40 AM - Martin Dobias

I'm still using geos 2.2.3 from ubuntu.

#3 - 2008-11-25 12:53 PM - Maciej Sieczka -

Replying to [comment:1 mhugent]:

Hi Martin

The example shapefile does not lead to a crash on my system.

Neither on my - Debian testing amd64, GEOS 3.0.0.

Not sure if that's relevant, but what are your snapping options? Do you rely on snapping settings from the general 'Options' menu or do you set them for that given layer in project properties? If the latter, do you also set 'Topological editing' and 'Avoid intersections'?

Can you post a backtrace?

#4 - 2008-11-26 02:43 AM - Martin Dobias

Replying to [comment:3 msieczka]:

Not sure if that's relevant, but what are your snapping options? Do you rely on snapping settings from the general 'Options' menu or do you set them for that given layer in project properties? If the latter, do you also set 'Topological editing' and 'Avoid intersections'?

I use general snapping options, no topological editing, neither avoid intersections. But shouldn't really matter, the crash is somewhere deep inside splitting routines.

Can you post a backtrace?

```
#0 0x0831c349 in vtable for +cxxabiv1::si_class_type_info ()
#3905 0x08be8f20 in ?? ()
#3906 0xb73bdf63 in [[QgsGeometry]]::splitPolygonGeometry (this=0x83724e0, splitLine=0x8369698, newGeometries=@0xbf95aeb0) at
/home/wonder/qgis/svn/src/core/qgsgeometry.cpp:4909
#3907 0xb73be95f in [[QgsGeometry]]::splitGeometry (this=0x83724e0, splitLine=@0x85c820c, newGeometries=@0xbf95aeb0,
topological=false, topologyTestPoints=@0xbf95aeac)
    at /home/wonder/qgis/svn/src/core/qgsgeometry.cpp:3187
#3908 0xb742448c in [[QgsVectorLayer]]::splitFeatures (this=0xb1328fd0, splitLine=@0x85c820c, topologicalEditing=false) at
/home/wonder/qgis/svn/src/core/qgsvectorlayer.cpp:1721
#3909 0x08184f22 in [[QgsMapToolSplitFeatures]]::canvasReleaseEvent (this=0x85c81e0, e=0xbf95b4d8) at
/home/wonder/qgis/svn/src/app/qgsmaptoolsplitfeatures.cpp:82
#3910 0xb72a50b3 in [[QgsMapCanvas]]::mouseReleaseEvent (this=0x85118b0, e=0xbf95b4d8) at
/home/wonder/qgis/svn/src/gui/qgsmapcanvas.cpp:774
```

#5 - 2008-11-27 05:05 AM - Marco Hugentobler

Ok, I compiled geos 2.2.3 and I also have the crash.

The geos documentation also gives the reason (see below). I'm going to look for a workaround for geos2 (or an ifdef).

```
/* May be called on all geometries in GEOS 3.x, returns -1 on error and 1
00374 * for non-multi geometries. Older GEOS versions only accept
00375 * [[GeometryCollections]] or Multi* geometries here, and are likely to crash
00376 * when feeded simple geometries, so beware if you need compatibility with
00377 * old GEOS versions.
00378 /
00379 extern int GEOS_DLL GEOSGetNumGeometries(const GEOSGeometry g1);
```

#6 - 2008-11-27 06:05 AM - Marco Hugentobler

- Status changed from Open to Closed

- Resolution set to fixed

Fixed in commit:52c76d58 (SVN r9713)

#7 - 2008-11-27 06:15 AM - Jürgen Fischer

Replying to [comment:6 mhugent]:

Fixed in commit:52c76d58 (SVN r9713)

But GEOSGetGeometryN() is fine with simple geometries?

#8 - 2009-08-22 12:57 AM - Anonymous

Milestone Version 1.0.0 deleted

Files

hranice_praha.zip	2.9 KB	2008-11-24	Martin Dobias
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