QGIS Application - Bug report #16198
QgsGeometry().asPolygon() segfaults, Python, SIP

2017-02-15 05:43 PM - Christoph Fink

Status:	Closed			
Priority:	High			
Assignee:				
Category:	Python plugins			
Affected QGIS version:	master	**Regression?:**	No	
Operating System:		**Easy fix?:**	No	
Pull Request or Patch supplied:	No	**Resolution:**	fixed/implemented	
Crashes QGIS or corrupts data:	Yes	**Copied to github as #:**	24108	

Description

calling the asPolygon() member function of any QgsGeometry in Python (on the console and from within a plugin) produces a segmentation fault

To reproduce it, run the following two lines on the python console:

```
geometry = QgsGeometry().fromWkt("Polygon((0 0,10 0,10 10,0 10, 0 0))")
polygon = geometry.asPolygon()
```

I am running Python 3.6 and PyQt 5.7.1
The backtrace is from a CMAKE_BUILD_TYPE=Release binary, I am in the middle of compiling a Debug binary

History

#1 - 2017-02-15 06:18 PM - Nyall Dawson

No crash here (python 3.6/qt 5.7.1). Likely a local build or library issue...

#2 - 2017-02-16 08:26 AM - Christoph Fink

- Status changed from Open to Closed

Indeed, I cannot reproduce it any more in any other enviroment than Arch with qgis-git from AUR.
I'll try to figure out which dependency is the culprit and file it as a bug with the AUR-package maintainer.

#3 - 2017-02-19 04:09 AM - Christoph Fink

- Status changed from Closed to Reopened

Reopening because it seems to affect the osgeo4w qgis-dev build, too, in case of MultiPolygons:

```
wkt = 'MultiPolygon (((0 0,10 0,10 10,0 10, 0 0)))'
geometry = QgsGeometry().fromWkt(wkt)
print(repr(geometry.isMultipart()))
multiPolygon = geometry.asMultiPolygon()
```

minidump attached, no idea how to debug it on Windows

#4 - 2017-02-19 04:10 AM - Christoph Fink

- File qgis-20170219-131239-760-3776-3496871.zip added

#5 - 2017-02-19 04:13 AM - Christoph Fink

- File sysinfo.txt added

#6 - 2017-04-30 11:42 AM - Giovanni Manghi

- OS version deleted (up-to-date as of 2016-02-16, 24)

- Operating System deleted (Arch, Fedora)

- Target version set to Version 3.0

- Priority changed from Normal to High

- Description updated

Christoph Fink wrote:

> *Reopening because it seems to affect the osgeo4w qgis-dev build, too, in case of MultiPolygons:*

confirmed on master/qgis3.

#7 - 2017-05-01 01:01 AM - Giovanni Manghi

- Regression? set to No

- Easy fix? set to No

#8 - 2017-05-12 12:21 PM - Matthias Kuhn

No crash here (QGIS 2.99 / QGIS 2.18) with multipolygon (Linux, Fedora 25)

#9 - 2017-05-12 12:22 PM - Giovanni Manghi

- Status changed from Reopened to Feedback

#10 - 2017-05-19 04:32 AM - Wei Ji Leong

Giovanni Manghi wrote:

> *Christoph Fink wrote:*
>
> > *Reopening because it seems to affect the osgeo4w qgis-dev build, too, in case of MultiPolygons:*
>
> *confirmed on master/qgis3.*

Crashes on Windows (Python 3.6.0, Qt 5.7.1) osgeo4w installed qgis-dev build e505ebc. Appears to be only limited to Polygons and Multipolygons. E.g. QgsGeometry().fromWkt("LineString(0 0,10 0,10 10,0 10, 0 0)").asPolyline() works without crashing.

Temp hacky workaround:
geometry = QgsGeometry().fromWkt("Polygon((0 0,10 0,10 10,0 10, 0 0))")

geometry.asPolygon()   #crashes

[(node.x(), node.y()) for node in geometry.asQPolygonF()] #works

#11 - 2018-02-22 01:44 PM - Giovanni Manghi

No crash anymore on latest QGIS 3 on Windows. Please leave feedback.

#12 - 2018-02-22 02:35 PM - Christoph Fink

No crash on QGIS Master (git commit 345088c863) on Linux (Qt 5.10, Python 3.6.4) either. Thank you!

#13 - 2018-03-01 02:25 PM - Giovanni Manghi

- Status changed from Feedback to Closed

- Resolution set to fixed/implemented

Files

backtrace	5.99 KB	2017-02-15	Christoph Fink
qgis-20170219-131239-760-3776-3496871.zip	3.39 MB	2017-02-19	Christoph Fink
sysinfo.txt	2.32 KB	2017-02-19	Christoph Fink