

QGIS Application - Bug report #7073

Intersection Tool Produces two Intersection points on the same position when performed on Same Layer

2013-01-29 11:56 AM - Sibi Prabakaran

Status:	Closed	Regression?: Easy fix?: Resolution: Copied to github as #: 16157
Priority:	Normal	
Assignee:	Sibi Prabakaran	
Category:	Processing/QGIS	
Affected QGIS version:	master	
Operating System:	Ubuntu Linux	
Pull Request or Patch Supplied:	Yes	
Crashes QGIS or corrupts data:	No	
Description		
Platform Used: Ubuntu Linux 32-bit		
The Intersection tool when performed on the same layer produces two intersection points overlapping each other.		
Their attribute table data for the intersected points is something like this:		
1,2		
2,1		
Related issues:		
Related to QGIS Application - Bug report # 7021: Line Intersection tool produ...		Closed 2013-01-21

Associated revisions

Revision 1a95297c - 2013-07-11 12:18 AM - Daniel Vaz

Fix #7073

Revision 56210eb0 - 2013-07-11 03:11 AM - Nathan Woodrow

Merge pull request #711 from ddanielvaz/bugfixes

Bugfixes for fTools.

Fix #8218

Fix #8069

Fix #7073

History

#1 - 2013-01-29 12:00 PM - Sibi Prabakaran

- % Done changed from 0 to 100

Pull Request submitted in <https://github.com/qgis/Quantum-GIS/pull/414>

#2 - 2013-07-03 12:14 AM - Matthias Kuhn

- Status changed from Open to Feedback

Is this bugreport still valid after #7021 has been fixed?

#3 - 2013-07-05 01:56 AM - Giovanni Manghi

Matthias Kuhn wrote:

```
| Is this bugreport still valid after #7021 has been fixed?
```

yes, because the result layer is empty.

Moreover if the tool is run using two different shapes I get

Traceback (most recent call last):

```
File "C:\\OSGeo4W\\apps\\qgis-dev\\python\\plugins\\fTools\\tools\\doIntersectLines.py", line 96, in accept
    self.compute(line1, line2, field1, field2, outPath, self.progressBar)
File "C:\\OSGeo4W\\apps\\qgis-dev\\python\\plugins\\fTools\\tools\\doIntersectLines.py", line 169, in compute
    outFeat.setAttribute(0, v1)
KeyError: '0'
```

I get the same error when running the tool using postgis layers.

#4 - 2013-07-05 10:46 AM - Daniel Vaz

- File *doIntersectLines.diff* added

When lines are in the same layer, I think that there is a problem using the same provider to iterate over both lines. There is a strange behaviour, I don't know why, but it looks like that code:

```
provider2.select(allAttrs)
```

overriden the provider1, so in the loop:

```
while provider1.nextFeature(inFeat):
```

the attribute map of each feature (`inFeat.attributeMap()`) is an empty dict.

The patch attached includes the patch proposed by Sibi and adds a HACK that solves the problem, but it's not the correct way, I think.

#5 - 2013-07-05 10:48 AM - Daniel Vaz

The hack that solves the problem, is added the following two lines before the while loop.

```
allAttrs = provider1.attributeIndexes()
provider1.select(allAttrs)
while provider1.nextFeature(inFeat):
```

#6 - 2013-07-06 06:25 AM - Daniel Vaz

See pull request 702. <https://github.com/qgis/Quantum-GIS/pull/702>

#7 - 2013-07-10 06:11 PM - Nathan Woodrow

- *Status changed from Feedback to Closed*

Fixed in changeset commit:"56210eb0b5c7914d246b1c82ad48e676b00b6557".

#8 - 2017-05-01 01:22 AM - Giovanni Manghi

The "ftools" category is being removed from the tracker, changing the category of this ticket to "Processing/QGIS" to not leave the category orphaned.

Files

doIntersectLines.diff	1.91 KB	2013-07-05	Daniel Vaz
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