

QGIS Application - Bug report #16722

Wrong result for curveToLine with max angle 70 on a semicircle

2017-06-19 01:35 PM - Sandro Santilli

Status:	Closed	
Priority:	Normal	
Assignee:	Sandro Santilli	
Category:	Geometry	
Affected QGIS version:	master	Regression?: No
Operating System:	Windows	Easy fix?: No
Pull Request or Patch applied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 24621
Description		
This code snippet shows how a MaxAngle:70-degrees linearization of a curve gives a wrong result: <pre>wkt = QStringLiteral("CIRCULARSTRING(0 0,100 100,200 0)"); circularString.reset(dynamic_cast<QgsCircularString *>(QgsGeometryFactory::geomFromWkt(wkt))); QVERIFY(circularString.get()); lineString.reset(circularString->curveToLine(70 * M_PI / 180.0)); QVERIFY(lineString.get()); //lineString->asWkt(); std::cout << "XXX --- " << lineString->asWkt().toString() << std::endl;</pre> You can see the resulting line here: http://strk.kbt.io/tmp/qgis-maxangle-70.png Expected resulting line (obtained via PostGIS ongoing work https://gitlab.com/postgis/postgis/merge_requests/3) is this: http://strk.kbt.io/tmp/pgis-maxangle-70.png		
Related issues:		
Related to QGIS Application - Bug report # 16717: curveToLine introduces dupl...		Closed 2017-06-17

Associated revisions

Revision 48c95399 - 2017-08-25 11:06 PM - Sandro Santilli

Refactor curveToLine to emit equidistant segments and fix some issues

Fixes #16717

Fixes #16722

Include tests

History

#1 - 2017-06-19 01:35 PM - Sandro Santilli

- Related to Bug report #16717: curveToLine introduces duplicated points added

#2 - 2017-07-21 12:03 PM - Sandro Santilli

- Assignee set to Sandro Santilli

- Status changed from Open to In Progress

#3 - 2017-07-21 10:37 PM - Sandro Santilli

Test for this added to <https://github.com/qgis/QGIS/pull/4746>

#4 - 2017-08-11 06:28 PM - Sandro Santilli

- *Pull Request or Patch supplied changed from No to Yes*

The PR now also contains a fix for this bug

#5 - 2017-08-25 11:06 PM - Sandro Santilli

- *% Done changed from 0 to 100*

- *Status changed from In Progress to Closed*

Applied in changeset commit:qgis|48c953991e15b56e9e9300ec8007d44ce1c64966.