# QGIS Application - Bug report #19973 QGIS 3.3 master delete duplicate geometries does not work

2018-09-27 09:11 PM - salvatore fiandaca

Status: Closed Priority: High

Assignee:

Category: Processing/Core

Affected QGIS version:3.3(master)Regression?:NoOperating System:win 10 - osgeo4wEasy fix?:No

Pull Request or Patch supplied: Resolution:

Crashes QGIS or corrupts data: Copied to github as #: 27795

## Description

I extracted the vertices of the polygonal vector that I attach,

subsequently I launch the geo-algorithm 'delete duplicate geometries', the process is fast but I stay still at 99% and does not create anything

it also does not work in 3.2.3

#### **Associated revisions**

# Revision 9698444f - 2018-09-28 11:37 PM - Nyall Dawson

[processing] Fix inefficiencies in Delete Duplicate Geometries algorithm

..and make progress bar more accurate.

Use a spatial index to avoid comparing every feature to every other feature, and only compare against features with intersecting bounding boxes instead. Also optimise feature requests and loop logic.

Benchmarks:

Point layer, 6000k features

Before: 30 seconds
After: 0.15 seconds

Point layer, 45k features

Before: > 10 minutes After: 7 seconds

Fixes #19973

#### History

#### #1 - 2018-09-27 09:24 PM - salvatore fiandaca

- File delete2.png added

EDIT:

2025-04-27 1/3

#### #2 - 2018-09-28 03:50 AM - Andrea Giudiceandrea

On my system, core i5-460M, 8 GB RAM, Windows 7 64 bit:

vertices extracted: 5629 points

running "delete duplicate geometries" on 5629 points takes

~50 seconds with QGIS 2.18.23 64 bit

50 seconds with QGIS 3.2.3 64 bit

88 seconds with QGIS 3.3.0 (80723e89fd) 64 bit (slower probably due to the debug build slowness)

resulting in a 3948 points layer

All the three versions however are affected by the "stuck at 99%" misleading strange behaviour you reported.

#### #3 - 2018-09-28 04:58 AM - Nyall Dawson

Not a regression - the algorithm is just extremely inefficient and doesn't scale for large layers (it compares EVERY feature with EVERY other). The solution here is probably to add a spatial index so that only features with intersecting bounding boxes are tested for equality

#### #4 - 2018-09-28 05:02 AM - Nyall Dawson

(For reference -- there's a dedicated, optimised, 'remove duplicate vertices' algorithm which may be of use here)

# #5 - 2018-09-28 05:34 AM - Nyall Dawson

How's "Execution completed in 0.18 seconds" sound?

## #6 - 2018-09-28 05:49 AM - Nyall Dawson

- Status changed from Open to In Progress

https://github.com/qgis/QGIS/pull/8047/files

# #7 - 2018-09-28 02:40 PM - salvatore fiandaca

Nyall Dawson wrote:

How's "Execution completed in 0.18 seconds" sound?

wow, it sounds great

2025-04-27 2/3

# #8 - 2018-09-28 11:37 PM - Nyall Dawson

- % Done changed from 0 to 100
- Status changed from In Progress to Closed

Applied in changeset commit:qgis|9698444f4af4712cb4a6508c839c014fa0b335e1.

# **Files**

delete.png	33.6 KB	2018-09-27	salvatore fiandaca
duplicate.7z	46.3 KB	2018-09-27	salvatore fiandaca
delete2.pna	32.7 KB	2018-09-27	salvatore fiandaca

2025-04-27 3/3