

QGIS Application - Bug report #17814

Postgres provider retrieves 4D geometries as 2D

2018-01-07 09:56 PM - Martin Dobias

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|--|-----------------------|-------------------------------|-------------------|
| Status: | Closed | | |
| Priority: | Normal | | |
| Assignee: | | | |
| Category: | Data Provider/PostGIS | | |
| Affected QGIS version: | master | Regression?: | No |
| Operating System: | | Easy fix?: | No |
| Pull Request or Patch supplied: | | Resolution: | fixed/implemented |
| Crashes QGIS or corrupts data: | | Copied to github as #: | 25710 |
| Description | | | |
| <p>For some reason PostgreSQL provider retrieves 4-dimensional geometries (e.g. POINT ZM) as 2D geometries: the Z and M values are skipped.</p> <p>To replicate, create a simple view:</p> <pre>CREATE VIEW multipoint_zm_test AS SELECT 1 AS id, ST_GeomFromText('MULTIPOINT', 25832) AS geom;</pre> <p>In identify results, in derived section the "closest vertex z/m" entries are missing. Another way to confirm the bug is to open 3D view and enable 3D renderer for the layer - points are shown at zero elevation.</p> <p>Postgres provider uses ST_Force2D() when retrieving 4D geometries - looks like it was a fix for an earlier bug #9748. Not sure if the forcing to 2D still makes sense. When "force2d" feature is disabled, things still seem to work.</p> <p>Here is the place where force2d is turned on for 4D geometries:</p> <p>https://github.com/qgis/QGIS/blob/master/src/providers/postgres/ggspostgresconn.cpp#L1491</p> | | | |
| Related issues: | | | |
| Related to QGIS Application - Bug report # 17789: 3D windows not rendering ne... | | Closed | 2018-01-04 |

Associated revisions

Revision 6a4b8b47 - 2018-01-17 03:38 PM - Martin Dobias

Fix retrieval of 4D geometries (XYZM) from postgres (fixes #17814)

History

#1 - 2018-01-07 10:51 PM - Nyall Dawson

I think the force 2d should be dropped - it's inclusion predated the new geometry engine and now it's definitely a bug.

#2 - 2018-01-08 03:03 AM - Mathieu Pellerin - nIRV

I'm with Nyall, we should drop the force 2D stuff. We've spent quite a lot of effort adding and/or exoosing proper Z/M support to other providers during this cycle, would be a shame not to fix our important postgres provider.

#3 - 2018-01-08 09:44 AM - Jürgen Fischer

- Related to Bug report #17789: 3D windows not rendering negative z-values of geometry added

#4 - 2018-01-08 09:45 AM - Jürgen Fischer

- Assignee deleted (*Jürgen Fischer*)

#5 - 2018-01-17 03:38 PM - Martin Dobias

- Status changed from *Open* to *Closed*

- % Done changed from 0 to 100

Applied in changeset commit:qgis|6a4b8b4762278aec6c1175b9489b9b1d07ccffcd.

#6 - 2018-02-21 10:27 PM - Giovanni Manghi

- Resolution set to *fixed/implemented*