

## QGIS Application - Bug report #21517

### Estimated Extent fails when rows exceed 32-bit signed integer max, issues slow ST\_Extent query

2019-03-07 11:04 PM - Jesse Ogle

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Data Provider/PostGIS	
<b>Affected QGIS version:</b> 3.7(master)	<b>Regression?:</b> No
<b>Operating System:</b> Windows, Linux	<b>Easy fix?:</b> Yes
<b>Pull Request or Patch supplied:</b> No	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b> No	<b>Copied to github as #:</b> 29334
<b>Description</b>	
<p>When 'Use estimated table meta data' is selected in the PostGIS Connection dialog, QGIS will still use ST_Extent() instead of ST_EstimatedExtent() if the table has more than int max rows. The ST_Extent() query is prohibitively slow and causes QGIS to hang.</p> <p>This appears to be the result of casting reltuples to int in the SQL query in this line: <a href="https://github.com/qgis/QGIS/blob/2403c64a7c26f1646fcba6142265c7c953540f28/src/providers/postgres/qgspostgresprovider.cpp#L252">https://github.com/qgis/QGIS/blob/2403c64a7c26f1646fcba6142265c7c953540f28/src/providers/postgres/qgspostgresprovider.cpp#L252</a></p> <p>This results in an error which causes the extent to be cleared and then ST_Extent() is used. Changing ::int to ::bigint resolves this issue (verified via psql query not through QGIS).</p> <p>The following line will also fail when reltuples is greater than int max: <a href="https://github.com/qgis/QGIS/blob/2403c64a7c26f1646fcba6142265c7c953540f28/src/providers/postgres/qgspostgresprovider.cpp#L193">https://github.com/qgis/QGIS/blob/2403c64a7c26f1646fcba6142265c7c953540f28/src/providers/postgres/qgspostgresprovider.cpp#L193</a></p> <p>Data source: PostgreSQL 10.5, compiled by Visual C++ build 1800, 64-bit</p>	

#### Associated revisions

##### Revision feb0c8bd - 2019-03-08 02:19 AM - Nyal Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

##### Revision d15d1242 - 2019-03-08 02:19 AM - Nyal Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

##### Revision c1089238 - 2019-03-08 02:19 AM - Nyal Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

**Revision dcc9f11c - 2019-03-10 10:46 PM - Nyall Dawson**

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

**Revision da2064d0 - 2019-03-10 11:59 PM - Nyall Dawson**

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

**Revision aba1e308 - 2019-03-14 02:56 AM - Nyall Dawson**

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

## History

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**#1 - 2019-03-08 02:20 AM - Nyall Dawson**

- Status changed from *Open* to *In Progress*

**#2 - 2019-03-10 10:46 PM - Nyall Dawson**

- % Done changed from *0* to *100*

- Status changed from *In Progress* to *Closed*

Applied in changeset commit:qgis|dcc9f11c868390240dfa9b20ea837f1cbe5dfad5.