

# QGIS Application - Bug report #21316

## Processing: precision loss on decimal number

2019-02-20 03:14 AM - Tobias Wendorff

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> Nyall Dawson	
<b>Category:</b> Processing/Core	
<b>Affected QGIS version:</b> 3.5(master)	<b>Regression?:</b> No
<b>Operating System:</b> Microsoft Windows 7, 64-bit	<b>Easy fix?:</b> No
<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> 29134

### Description

## Bug report

1. create a new Temporary Scratch Layer
2. add some fields  
name: one  
type: decimal number (real)  
provider type: double  
- length: 32  
- precision: 30  
  
name: two  
type: decimal number (numeric)  
provider type: numeric  
- length: 20  
- precision: 18  
  
name: three  
type: decimal number (decimal)  
provider type: decimal  
- length: 20  
- precision: 18  
  
name: four  
type: decimal number (real)  
provider type: real  
- length: internally set to -1  
- precision: internally set to -1  
  
name: five  
type: decimal number (double)  
provider type: double precision  
- length: internally set to -1  
- precision: internally set to -1
3. add a new feature
4. add the value "0.01234567890123456789" into each field (length 22, precision 20)
5. save & check results  
- one : 0.012345678901234568430878013601  
- two : 0.012345678901234567  
- three: 0.012345678901234567  
- four : 0.012345678901234568  
- five : 0.012345678901234568
6. When running "Refactor Fields", "Extract by Attribute" or others in Processing, the result is:  
- one : 0.012345678901234568430878013601  
- two : 0.012345678901234568  
- three: 0.012345678901234568  
- four : 0.01235 ["source field" shows, \*precision gets smashed to 5\*]

- five : 0.01235 ["source field" shows, \*precision gets smashed to 5\*]

## Expected results

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The output field should have the same precision as the input field.

### Associated revisions

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#### Revision f3cb3488 - 2019-02-20 08:42 AM - Nyall Dawson

Fix loss of precision when converting fields to uri in memory provider

Fixes #21316

#### Revision e098b9a3 - 2019-02-20 05:50 PM - Nyall Dawson

Fix loss of precision when converting fields to uri in memory provider

Fixes #21316

(cherry picked from commit f3cb3488ec5b1edca298833c6a982fe77b056e59)

### History

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#### #1 - 2019-02-20 04:18 AM - Nyall Dawson

- Assignee set to Nyall Dawson
- Status changed from Open to In Progress

#### #2 - 2019-02-20 08:41 AM - Nyall Dawson

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

Applied in changeset commit:qgis|f3cb3488ec5b1edca298833c6a982fe77b056e59.