# QGIS Application - Bug report #21023 Truncated decimals in raster data set pixel size

2019-01-17 04:39 PM - Nicolas Cadieux

Status:	Closed			
Priority:	Normal			
Assignee:	Alexander Bruy			
Category:	Rasters			
Affected QGIS version: 3.4.3		Regression?:	No	
Operating System:		Easy fix?:	No	
Pull Request or Patch supplied:		Resolution:	fixed/implemented	
Crashes QGIS or corru <b>ptes</b> data:		Copied to github as #: 28842		
Description		ł		

Reported data set pixel Size (Layer property -> Information -> Pixel Size) are truncated to 9 decimals. When this information is copied in order to create a new raster, it results in a significant shift in the raster for VERY large data sets (up to 30m on the right side of my data set). I imagine that this information is derived from GDAL's geotransform components which is stored as a IEEE-754 64bit number as confirm to me by Even Rouault. Pixel size should be reported with 19 decimal significant figures ('%.19g' C formatting) to keep the original precision of a IEEE-754 64bit number. Layer extent should also be reported using the original decimal number if it is not already the case.

In python, this would be the equivalent of using this: xPixelSize= str(Decimal(geotransform<sup>1</sup>).quantize(Decimal("1.0000000000000000"))) instead of xPixelSize= str(geotransform<sup>1</sup>)

## Associated revisions

Revision 3c2a20a9 - 2019-01-27 09:14 PM - Alexander Bruy

show pixel size in the raster layer properties with 19 significant digits (fix #21023)

### Revision c05c2c71 - 2019-01-29 04:35 PM - Alexander Bruy

show pixel size in the raster layer properties with 19 significant digits (fix #21023)

(cherry picked from commit 3c2a20a9484cbe3f1117a692757e552e88e6195c)

#### History

## #1 - 2019-01-17 05:23 PM - Giovanni Manghi

- Easy fix? changed from Yes to No
- Category changed from GUI to Rasters

#### #2 - 2019-01-27 10:29 AM - Alexander Bruy

- Operating System deleted (Windows 10\_64)
- Pull Request or Patch supplied changed from No to Yes
- Assignee set to Alexander Bruy
- Status changed from Open to In Progress

# #3 - 2019-01-27 09:13 PM - Alexander Bruy

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|3c2a20a9484cbe3f1117a692757e552e88e6195c.

# #4 - 2019-01-28 07:34 AM - Alexander Bruy

- Resolution set to fixed/implemented