# QGIS Application - Bug report #14582 The extent of the raster layers is not preserved and rounded to integer with GRASS7 tools in the Processing Toolbox.

2016-03-29 05:45 AM - Olivier ATHIMON

Status:	Closed				
Priority:	Normal				
Assignee:					
Category:	Processing/GRASS				
Affected QGIS version:master		Regression?:	No		
Operating System:		Easy fix?:	No		
Pull Request or Patch supplied:		Resolution:			
Crashes QGIS or corru <b>pits</b> data:		Copied to github as #:	22553		
Description					
With QGIS 2.14.0/1 and GRASS 7.0.3 (and GRASS 6.4.4 without problem) In the calculations made with the <u>"Processing Toolbox &gt; GRASS7 &gt; Raster (r.*)</u> ", the raster layer extent <u>is rounded to integer</u> . So, if i have a dem, the extent before processing can be this: "Layer Extent (layer original source projection)					
<b>358759.5</b> 000000000000000000000000000000000000					
and provide, for a processing (r.resample, r.mapcalculator, r) with GRASS7, this result: "Layer Extent (layer original source projection) 358759.0 0000000000000000, 6290967.0 00000000000000 : 359281.0 000000000000000, 6291317.0 00000000000000000					
For information: i have choosen to keep the input coordinates with this option: [Leave blank to use min covering extent]					

On the contrary, the extent (with decimal) seems to be kept with the same functions under "Processing Toolbox/GRASS6".

# **Associated revisions**

Revision 75c76f51 - 2016-05-23 08:49 AM - ninsbl

[processing] Don't round grass7 extent and resolution to integer

fix #14582

See: https://hub.qgis.org/issues/14582

The commit removes the a-flag when the grass region for raster analysis is set. The a-flag causes in some cases unwanted rounding of raster extend / resolution, and should not be set hardcoded in processing. It is usually used in combination with the "res" option.

For aligning the pixels of the GRASS region to a specific raster, the align option should be used (and not the a-flag). See:

https://grass.osgeo.org/grass70/manuals/g.region.html

GRASS 6.4 algs do not use the a-flag either, which explains why this bug appears only for GRASS 7.

#### History

#1 - 2016-04-08 04:28 AM - Alexander Bruy

- Status changed from Open to Feedback

## #2 - 2016-04-14 07:06 AM - Giovanni Manghi

- Affected QGIS version changed from 2.14.0 to master
- Target version deleted (Future Release High Priority)
- Priority changed from High to Normal
- Status changed from Feedback to Open

apparently in native GRASS there is no rounding in outputs extent.

## #3 - 2016-05-22 02:56 AM - Stefan Blumentrath

Rounding happens because -a flag is given in the g.region command in Grass7Algorithm.py. The -a flag is most useful for rasterizing vector input (e.g. LiDAR point clouds). If you want to align the processing to the cells of an input raster, use the "align" option. See: <u>https://grass.osgeo.org/grass70/manuals/g.region.html</u>

## #4 - 2016-05-22 03:01 PM - Stefan Blumentrath

See: PR 3090

## #5 - 2016-05-22 11:50 PM - Anonymous

- Status changed from Open to Closed

Fixed in changeset commit:"75c76f51f17d88226fb86826e9aa8c4d96eedb5a".

#### #6 - 2016-05-23 12:55 AM - Olivier ATHIMON

- Assignee deleted (Victor Olaya)

Thank you very much.

Files

187 KB	2016-03-29	Olivier ATHIMON
412 KB	2016-03-29	Olivier ATHIMON
413 KB	2016-03-29	Olivier ATHIMON
	187 KB 412 KB 413 KB	187 KB 2016-03-29   412 KB 2016-03-29   413 KB 2016-03-29