

## QGIS Application - Bug report #11587

### all coordinates truncated to integer values when system has certain locale settings

2014-11-06 01:49 PM - Etienne Trimaille

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Category:</b>	Vectors	
<b>Affected QGIS version:</b>	2.6.0	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>		<b>Resolution:</b> up/downstream
<b>Crashes QGIS or corrupts data:</b>		<b>Copied to github as #:</b> 19846
<b>Description</b>		
<p>I have two files (attached annex) with the same content : one in OSM, the other in GeoJson.</p> <p>I can open the OSM file (point layer), every thing is OK.</p> <p>However, if I open the geojson, all coordinates are truncated to integer values.</p> <p>I can run this script :</p> <pre>##Debug=group ##Test decimal=name ##layer=vector layer = processing.getObject(layer) for feature in layer.getFeatures():     print feature.geometry().exportToWkt()</pre> <p>For OSM, I get : "POINT (2.369370200000000009 48.82156119999999788)"</p> <p>But for geojson : "POINT (2 48)"</p> <p>But as you can see in the geojson, there are some decimal too.</p> <p>I tried to play with parameters in Kubuntu about decimal separator, I can't resolve this problem.</p> <p>Another issue is related to this : <a href="https://github.com/3liz/QgisQuickOSMPlugin/issues/34">https://github.com/3liz/QgisQuickOSMPlugin/issues/34</a></p>		
<b>Related issues:</b>		
Duplicated by QGIS Application - Bug report # 12555: geojson open with bad re...	Closed	2015-04-13
Duplicated by QGIS Application - Bug report # 13098: GeoJSON vector issue	Closed	2015-07-09
Duplicated by QGIS Application - Bug report # 13391: GeoJSON not displayed co...	Closed	2015-09-21

#### History

#1 - 2014-11-07 11:11 AM - Giovanni Manghi

- Priority changed from High to Normal
- Status changed from Open to Feedback

seems a local issue. Any tool I tested to get that points coordinates returns decimal values.

## #2 - 2015-01-19 01:17 AM - Milos Kroulik

I'm also having this problem in QGIS 2.7-master on Ubuntu 14.04 (precisely Linux Mint 17.1) installed using Ubuntugis unstable and QGIS devel repositories. What can i try to mitigate the problem? My coworker tried it with Win 7, at it works well.

Full environment info:

QGIS version 2.7.0-Master QGIS code revision exported  
Compiled against Qt 4.8.6 Running against Qt 4.8.6  
Compiled against GDAL/OGR 1.11.0 Running against GDAL/OGR 1.11.0  
Compiled against GEOS 3.4.2-CAPI-1.8.2 Running against GEOS 3.4.2-CAPI-1.8.2 r3921  
PostgreSQL Client Version 9.3.4 SpatiaLite Version 4.1.1  
QWT Version 5.2.3 PROJ.4 Version 480

## #3 - 2015-01-19 02:33 AM - Milos Kroulik

New findings confirm, that this issue is definitely related to system locale settings. I changed locale settings in Cinnamon environment to en-US and (after reboot) QGIS was able to load GeoJSON file correctly. So title of this issue should be changed - or should I close this issue and create new one based on new findings?

## #4 - 2015-01-19 02:59 AM - Giovanni Manghi

- Status changed from Feedback to Open
- Subject changed from all coordinates truncated to integer values to all coordinates truncated to integer values when system has certain locale settings
- Category set to Vectors

Milos Kroulik wrote:

*New findings confirm, that this issue is definitely related to system locale settings. I changed locale settings in Cinnamon environment to en-US and (after reboot) QGIS was able to load GeoJSON file correctly. So title of this issue should be changed - or should I close this issue and create new one based on new findings?*

title edited. This was an issue also in older qgis releases?

## #5 - 2015-01-19 04:10 AM - Milos Kroulik

It's present at least in 2.6, another poster in linked Github issue mentioned, that it was also present in 2.4

## #6 - 2015-01-19 04:41 AM - Etienne Trimaille

I confirm that bug on qgis 2.4 too.

Sure it's a problem with locales. The decimal separator should be treated by any locales.

Do you think we should check more GDAL/OGR ? And maybe open an issue linked to this one on GDAL's tracker.

## #7 - 2015-05-12 09:10 AM - Michael Douchin

- Target version changed from Version 2.6 to Future Release - Nice to have

I had this issue, too and here is my bugreport:

GeoJSON import fails based on LANG settings

I found the import of GeoJSON files to fail based on the language settings. The file gets imported, but the decimals are lost.

An import with qgis started under a generic english LANG environment imports the file correctly:

LANG=C qgis

With the following test.json:

```
{"features": [{"geometry": {"coordinates": [[[9.0, 48.0], [9.0, 49.5], [9.5, 49.5], [9.5, 48.0], [9.0, 48.0]]], "type": "Polygon"}, "properties": {"xyid": "0 0"}, "type": "Feature"}, {"type": "FeatureCollection"}
```

The import under a german environment (de\_DE.UTF-8) yields a deformed polygon, "Plain Geometry editor" extension shows these coordinates:

Polygon ((9 48, 9 49, 9 49, 9 48, 9 48))

with LANG=C qgis loads the same file correctly:

Polygon ((9 48, 9 49.5, 9.5 49.5, 9.5 48, 9 48))

ogr standalone binary correctly converts the coordinates, e.g. to GML (excerpt):

ogr2ogr -f "GML" out.gml in.json

<ogr:geometryProperty><gml:Polygon

srsName="EPSG:4326"><gml:outerBoundaryIs><gml:LinearRing><gml:coordinates>9,48 9.0,49.5 9.5,49.5 9.5,48.0

9,48</gml:coordinates></gml:L

inearRing></gml:outerBoundaryIs></gml:Polygon></ogr:geometryProperty>

QGIS version

2.12.1-Lyon

QGIS code revision

exported

Compiled against Qt

4.8.6

Running against Qt

4.8.6

Compiled against GDAL/OGR

1.10.1

Running against GDAL/OGR

1.11.2

Compiled against GEOS

3.4.2-CAPI-1.8.2

Running against GEOS

3.4.2-CAPI-1.8.2 r3921

PostgreSQL Client Version

9.3.4

Spatialite Version

4.1.1

QWT Version

5.2.3

PROJ.4 Version

480

#9 - 2015-12-05 06:05 AM - Martin Weis

There are duplicates in the bugreports: #13391, #13098  
I can confirm these to suffer from the LANG issue. Correctly imported with LANG=C env var.

#10 - 2015-12-05 06:06 AM - Martin Weis

Another duplicate: #12555

#11 - 2016-10-07 05:57 AM - Even Rouault

- Resolution set to up/downstream
- Status changed from Open to Closed

This has been fixed in GDAL 2.0

Files

tmpeCOKIN.osm	318 KB	2014-11-06	Etienne Trimaille
tmpZcvhzs_points.geojson	206 KB	2014-11-06	Etienne Trimaille