

QGIS Application - Bug report #11999

Spatialite layer not displayed and reports wrong extent

2015-01-18 02:29 AM - Alexander Bruy

Status:	Closed	
Priority:	High	
Assignee:	Sandro Furieri	
Category:	Data Provider/Spatialite	
Affected QGIS version:	master	Regression?: No
Operating System:	Ubuntu 14.04 LTS	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: invalid
Crashes QGIS or corrupts data:	No	Copied to github as #: 20203

Description

When adding layers from Spatialite database to QGIS they not displayed, in QGIS statusbar I see wrong coordinates and scale. Zoom to layer extent and other navigation tools also don't work. Tried to get layer extent using Python console and got completely wrong values:

```
>>> l = iface.mapCanvas().currentLayer()
>>> l.extent().toString()
u'-179769313486231570814527423731704356798070567525844996598917476803157260780028538760589558632766878171540458171540458953514382464234321326889464182768467546703537516986049910576551282076245490090389328944075868508455138508455133942304583236903222948165808559332123348274797826204144723168738177180919299881250404026184124858368.024858368.0000000000000000,-1797693134862315708145274237317043567980705675258449965989174768031572607800285387605028538760589558632766878171540458953514382464234321326889464182768467546703537516986049910576551282076245490096245490090389328944075868508455133942304583236903222948165808559332123348274797826204144723168738177180919299880919299881250404026184124858368.0000000000000000 : 1023822.9999672472476959,208209.0000113248825073'
```

If project CRS changed from layer CRS (EPSG:2263) to WGS84 I can zoom to layer.
Same layer, loaded from shapefile displayed and worked fine.

Tested with master 2.2, 2.4 and 2.6.1. Spatialite 4.0.0, Proj 4.8, GEOS 3.3.8 and GDAL 1.11.0

Sample database with one layer attached.

History

- #1 - 2015-01-18 07:15 AM - Alexander Bruy
- Subject changed from Spatialite layer not displayed and reports wrong extent to Spatialite layer not displayed and reports wrong extent
- #2 - 2015-01-18 07:52 AM - Sandro Furieri
- Resolution set to invalid
 - Status changed from Open to Closed

there are several rows in the sample that are completely bogus :-D

```
SELECT Count(*) Min(MbrMinX(geom)), Min(MbrMinY(geom)), Max(MbrMaxX(geom)), Max(MbrMaxY(geom))
FROM trees
WHERE MbrMinX(geom) > 0.0;
-----
149568  972921.000048  147696.999955  1023822.999967  208209.000011
```

so there are about 150,000 "good" geometries.

```
SELECT Count(*) FROM trees
WHERE MbrMinX(geom) <= 0.0;
-----
946
```

anyway there are about one thousand crazy geometries declaring "impossible" coordinate values as confirmed by this final query:

```
SELECT ST_X(geom), ST_Y(geom)
FROM trees
WHERE MbrMinX(geom) <= 0.0;
-----
```

for all 946 "crazy geoms" the same absurd and incredibly huge negative value is always reported for both X and Y
please note: this value apparently seems to exactly match:
0.0 - DBL_MAX (1.7976931348623157E+308)

final counter-check:

```
DELETE FROM trees
WHERE ST_X(geom) <= 0.0;
```

after deleting all "crazy" rows this layer will immediately start to work nicely

bye Sandro

Files			
db.7z	4.76 MB	2015-01-18	Alexander Bruy