

QGIS Application - Bug report #18420

Excessive, erratic memory usage

2018-03-12 05:40 PM - Johannes Kroeger

Status:	Closed	
Priority:	High	
Assignee:	Nyall Dawson	
Category:	Unknown	
Affected QGIS version:	3.0.0	Regression?: No
Operating System:	Ubuntu 16.04	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	Yes	Copied to github as #: 26309
Description		
<p>QGIS uses excessive amounts of memory, seemingly leaking some until it takes down my whole system. This seems to depend on adding and removing layers. In my case I noticed it with GeoJSON and Shapefile formats, I have no idea if it affects others).</p> <p>Dataset used: https://transfer.sh/KqhNi/b%C3%A4ume.7z (CC0 from https://opendata.bonn.de/dataset/baumstandorte)</p> <p>There is a geojson and a shp inside.</p> <p>QGIS takes about 320M of RAM with a clean (no project loaded, but some plugins) start for me.</p> <p>1670M after loading the geojson after a clean start 2500M after adding the shp to that 3300M after removing the shp layer 4160M after adding the shp again 5000M after removing the shp layer again (5000M after removing the geojson layer as well but that seems to get at least partially reclaimed as adding both the shp and the geojson again only made it grow to 5075M...)</p> <p>365M after loading the shp after a clean start 1720M after adding the geojson to that 1700M after removing the geojson layer 1760M after adding the geojson again</p> <p>So this seemed fine (although 1.7G for a 25M GeoJSON is crazy).</p> <p>365M after loading the shp after a clean start 1720M after adding the geojson to that 2530M after removing the shp layer 3350M after adding the shp again</p> <p>I did not bother going further, it would have taken more memory again.</p> <p>So, loading and unloading the shp file while the geojson is loaded makes QGIS gradually eat all RAM and crash the system.</p> <p>QGIS version 3.0.0-Girona QGIS code branch Release 3.0 On Archlinux</p>		

Associated revisions

Revision f3b5838f - 2018-03-16 02:33 AM - Nyal Dawson

[ogr] Fix ref/unref mismatch when loading OGR layers

Causes an extra connection reference which is never removed, blocking ogr dataset closing.

Fixes #18420, probably others

Revision dff31a4a - 2018-03-16 03:43 AM - Nyal Dawson

[ogr] Fix ref/unref mismatch when loading OGR layers

Causes an extra connection reference which is never removed, blocking ogr dataset closing.

Fixes #18420, probably others

(cherry-picked from f3b5838)

History

#1 - 2018-03-13 08:07 AM - Nyal Dawson

- Status changed from Open to In Progress
- Pull Request or Patch supplied changed from No to Yes

Can you test <https://github.com/qgis/QGIS/pull/6593> and see if it helps?

#2 - 2018-03-13 08:40 PM - Johannes Kroeger

I could not test on the same machine yet. On my other one (same 64 bit Archlinux but different GDAL) I could not replicate the high memory usage even in an older qgis (r44842.6ed078c889) so I am a bit confused. Maybe the GDAL version plays a role too? I will try to test it tomorrow.

#3 - 2018-03-13 09:09 PM - Nyal Dawson

Gdal 2.3 will help a lot here (it's gdal which consumes all the memory on opening the geojson)

#4 - 2018-03-15 01:42 PM - Johannes Kroeger

Yeah, that one had the latest GDAL from SVN I think.

On the machine where I noticed the problem:

QGIS 3.1.0-Master (193c554b4c) with the patch applied.

GDAL 2.2.3, released 2017/11/20

1660M added GeoJSON

2033M added shp

3000M removed shp
3800M added shp
4200M removed shp

It also does not free after unloading all layers or creating a new project.

#5 - 2018-03-16 02:33 AM - Nyal Dawson

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

Applied in changeset commit:qgis|f3b5838f5e1d65ab17bef6ff0480daf6c89f5424.

#6 - 2018-03-16 02:05 PM - Johannes Kroeger

- Status changed from Closed to Reopened
- Assignee set to Nyal Dawson

No luck :(

I built from Git r46587.10044fb1dd with the same GDAL 2.2.3, released 2017/11/20 and tried the files again:

1660 gj
2500 shp+
3300 shp-
3300 shp+
3300 shp-
4200 shp+
5000 shp-
5000 shp+
5000 shp-
5000 shp+
5000 shp-
5000 gj-
5000 new project
5000 shp+
5100 gj+
5100 shp-
5100 shp+
5100 open random other project

#7 - 2018-11-08 01:31 PM - Giovanni Manghi

- Status changed from Reopened to Feedback

Please try on QGIS 3.4.1, if the issue is still valid change the affected version, thanks.

#8 - 2018-11-08 04:52 PM - Johannes Kroeger

- Status changed from Feedback to Open

Tested in 3.2.3-Bonn (Compiled against GDAL/OGR 2.3.1, Running against GDAL/OGR 2.3.2).

I could not reproduce the excessive memory usage. So this issue can be closed.

#9 - 2018-11-08 04:58 PM - Giovanni Manghi

- *Status changed from Open to Closed*
- *Resolution set to fixed/implemented*

You should test 3.4.1 as 3.2 is not supported anymore, so reopen if necessary.