I was testing a project I have and qgis (master) froze. strace shows it hanging in: futex(0x45b791c, FUTEX_WAIT_PRIVATE, 1, NULL

```
(gdb) bt
#0  pthread_cond_wait@GLIBC_2.3.2 () at ../nptl/sysdeps/unix/sysv/linux/x86_64/pthread_cond_wait.S:185
#1  0x00007fc6914ae816 in QWaitCondition::wait(QMutex*, unsigned long) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#2  0x00007fc69149b8e4 in QFutureInterfaceBase::waitForFinished() () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#3  0x00007fc692b60daf in QgsMapRendererParallelJob::cancel (this=0x522b360) at /usr/src/qgis/qgis/src/core/qgsmaprendererparalleljob.cpp:92
   /usr/src/qgis/qgis/src/core/qgsmaprendererparalleljob.cpp:92
#4  0x00007fc692224e9f in QgsMapCanvas::stopRendering (this=0x1f3c3c0) at /usr/src/qgis/qgis/src/gui/qgsmapcanvas.cpp:770
#5  0x00007fc692223c2f in QgsMapCanvas::refreshMap (this=0x1f3c3c0) at /usr/src/qgis/qgis/src/gui/qgsmapcanvas.cpp:649
#6  0x00007fc6922b4b14 in QgsMapCanvas::qt_static_metacall (_o=0x1f3c3c0, _c=QMetaObject::InvokeMetaMethod, _id=40, _a=0x7fff919dca60) at /usr/src/qgis/build/src/gui/moc_qgsmapcanvas.cxx:166
#7  0x00007fc69715487a in QMetaObject::activate(QObject*, QMetaObject const*, int, void**) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#8  0x00007fc69215d7a in ?? () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#9  0x00007fc6995a831 in QIODevice::event(QEvent**) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#10 0x00007fc69094e2c in QApplicationPrivate::notify_helper(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtGui.so.4
#11 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#12 0x00007fc69094e2c in QApplicationPrivate::notify_helper(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtGui.so.4
#13 0x00007fc69094e2c in QApplicationPrivate::notify_helper(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtGui.so.4
#14 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#15 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#16 0x00007fc69094e2c in QApplicationPrivate::notify_helper(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtGui.so.4
#17 0x00007fc69094e2c in QApplicationPrivate::notify_helper(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtGui.so.4
#18 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#19 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#20 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#21 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#22 0x00007fc691504dd in QCoreApplication::notifyInternal(QObject*, QEvent*) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
```
All I did to trigger it was changing visibility of a couple of layers and navigate. I'm tagging it as "Causes crash or corruption" as you can't exit from a deadlock w/out killing the process.

**History**

**#1 - 2015-02-19 04:32 AM - Martin Dobias**

What about the worker threads - what were they waiting for?

**#2 - 2015-02-19 04:51 AM - Jürgen Fischer**

Martin Dobias wrote:

> What about the worker threads - what were they waiting for?

Good question :)  

<strk> master branch  
<strk> Process 10380 attached  
<strk> futex(0x45b791c, FUTEX_WAIT_PRIVATE, 1, NULL  
<strk> ^^^ that's coming from strace, it's stuck there, deadlock !  
<strk> strk: where?  
<strk> jef: #12228  
<sigq> Title: QGIS Application - Bug report #12228: deadlock from parallel rendering - QGIS Issue Tracking (at hub.qgis.org)  
<strk> jef: and the other threads?  
<strk> jef: I killed the process now  
<strk> jef: but nothing was coming out from strace, so I guess all were quiet  
<strk> helgrind tool of valgrind might help

**#3 - 2015-02-19 04:57 AM - Jürgen Fischer**

BTW thread apply all bt in gdb produces backtraces for all threads.

**#4 - 2015-02-19 04:59 AM - Jürgen Fischer**

- Tag set to mtr

**#5 - 2015-05-10 01:03 AM - Giovanni Manghi**

- Target version changed from Version 2.8 to Version 2.8.2

**#6 - 2015-05-14 03:02 AM - Giovanni Manghi**

- Target version changed from Version 2.8.2 to Version 2.10

**#7 - 2015-05-27 11:33 PM - Andreas Neumann**
Strk - what are the data sources? Postgis, perhaps?

I have similar issues with Postgis connections and MTR if my number of cores for rendering goes beyond 2-3. If I limit the nr of cores to 2, the problem disappears.

I would really like to see a fix for this. I have not created a bug report, because it was very hard to reproduce and apparently shows up on my Windows version more often than on Linux. But that is perhaps because on Linux my Postgis connections are local, whereas on Windows the connections are remote.

#8 - 2015-05-28 12:59 AM - Giovanni Manghi
- Target version changed from Version 2.10 to Future Release - High Priority

Hi Andreas,

I would really like to see a fix for this. I have not created a bug report, because it was very hard to reproduce and apparently shows up on my Windows version more often than on Linux. But that is perhaps because on Linux my Postgis connections are local, whereas on Windows the connections are remote.

it seems there are different tickets with issues apparently caused by mtr, them main seems to be this #11141

#9 - 2015-05-28 02:27 AM - Sandro Santilli

I don’t remember what the datasource was. Yes, debugging threading issues is an hell (thus the name of the valgrind tool, I guess)

#10 - 2015-05-28 03:14 AM - Jürgen Fischer
- Status changed from Open to Feedback

not reproduceable

#11 - 2015-06-14 01:46 AM - Giovanni Manghi
- Status changed from Feedback to Closed
- Resolution set to not reproducable

closing for lack of feedback.

#12 - 2015-07-31 03:19 AM - Sandro Santilli
- Status changed from Closed to Reopened
- Resolution deleted (not reproducable)

I’ve just reproduced this, in 2.8.3 (lacking an entry in the “Affected version” pull-down menu).

What I did:

1) Load the POSTGIS_SRC/topology/test/invalid_topology.sql script into a topology-enabled PostgreSQL database
2) Load the “invalid_topo” schema in qgis via DBManager (select the schema, pick Topology Viewer from the “schema” menu)
What I got: a blocked GUI

The backtrace:

(gdb) bt
#0  pthread_cond_wait@@GLIBC_2.3.2 () at ../nptl/sysdeps/unix/sysv/linux/x86_64/pthread_cond_wait.S:185
#1  0x00007f89533f8c16 in QWaitCondition::wait(QMutex*, unsigned long) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#2  0x00007f8953b98e4 in QFutureInterfaceBase::waitForFinished() () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#3  0x00007f895566f281 in QgsMapRendererParallelJob::cancel (this=0x57c2ba0) at /usr/src/qgis-2.8/src/core/qgsmaprendererparalleljob.cpp:92
#4  0x00007f8954d4d46219 in QgsMapCanvas::stopRendering (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:778
#5  0x00007f8954d4d45012 in QgsMapCanvas::refreshMap (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:657

#13 - 2015-07-31 03:23 AM - Sandro Santilli

wioth thread apply all bt
, as suggested by Jurgen:

(gdb) thread apply all bt

Thread 13 (Thread 0x7f89394ee700 (LWP 24245)):
#0  0x00007f8950fdff1d in poll () at ../sysdeps/unix/syscall-template.S:81
#1  0x00007f895834ed81fe4 in ?? () from /lib/x86_64-linux-gnu/libglib-2.0.so.0
#2  0x00007f894e383182 in start_thread (arg=0x7f89394ee700) at pthread_create.c:312
#3  0x00007f8950fec47d in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:111

Thread 12 (Thread 0x7f8938ced700 (LWP 24246)):
#0  0x00007f8950fdff1d in poll () at ../sysdeps/unix/syscall-template.S:81
#1  0x00007f895834ed81fe4 in ?? () from /lib/x86_64-linux-gnu/libglib-2.0.so.0
#2  0x00007f894e383182 in start_thread (arg=0x7f8938ced700) at pthread_create.c:312
#3  0x00007f8950fec47d in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:111

Thread 11 (Thread 0x7f8931333700 (LWP 24253)):
#0  0x00007f8950fdff1d in poll () at ../sysdeps/unix/syscall-template.S:81
#1  0x00007f895834ed820ec in g_main_loop_run () from /lib/x86_64-linux-gnu/libgio-2.0.so.0
#2  0x00007f894e383182 in start_thread (arg=0x7f8931333700) at pthread_create.c:312
#3  0x00007f8950fec47d in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:111

Thread 10 (Thread 0x7f8925296700 (LWP 24254)):
#0  0x00007f8950fdff1d in poll () at ../sysdeps/unix/syscall-template.S:81
#1  0x00007f895834ed8220ed in ?? () from /lib/x86_64-linux-gnu/libQtWebKit.so.4
#2  0x00007f8958360fd6 in ?? () from /lib/x86_64-linux-gnu/libQtWebKit.so.4
#3  0x00007f8954d4d46539 in QgsMapCanvas::stopRendering (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:778
#4  0x00007f8954d4d46219 in QgsMapCanvas::stopRendering (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:778
#5  0x00007f8954d4d45012 in QgsMapCanvas::refreshMap (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:657

Thread 9 (Thread 0x7f8933ff700 (LWP 24256)):
#0  0x00007f8950fdff1d in poll () at ../sysdeps/unix/syscall-template.S:81
Thread 5 (Thread 0x7f89337fe700 (LWP 24293)):
#0 0x0000789f50f82a15 in __libc_wait (stat_loc=0x7f89337fc460) at ../sysdeps/unix/sysv/linux/x86_64/wait.c:35
#1 0x0000000000580193 in dumpBacktrace (depth=20) at /usr/src/qgis/qgis-2.8.2/app/main.cpp:236
#2 0x00000000005802c8 in myMessageOutput (type=QtWarningMsg, msg=0x7f8920015108 "\"GEOS exception: \"\") at /usr/src/qgis/qgis-2.8.2/app/main.cpp:236
#3 0x00000000005802c8 in myMessageOutput (type=QtWarningMsg, msg=0x7f8920015108 "\"GEOS exception: \"\") at /usr/src/qgis/qgis-2.8.2/app/main.cpp:236
#4 0x00000000005802c8 in myMessageOutput (type=QtWarningMsg, msg=0x7f8920015108 "\"GEOS exception: \"\") at /usr/src/qgis/qgis-2.8.2/app/main.cpp:236
#5 0x00000000005802c8 in myMessageOutput (type=QtWarningMsg, msg=0x7f8920015108 "\"GEOS exception: \"\") at /usr/src/qgis/qgis-2.8.2/app/main.cpp:236
Thread 4 (Thread 0x7f88c4976700 (LWP 24294)):
#0 pthread_cond_wait@GLIBC_2.3.2 () at /net/sdps/unix/sysv/linux/x86_64/pthread_cond_wait.S:185
#1 0x0000789f50f831c6 in in QWaitCondition::wait(QMutex*, unsigned long) () from /lib/x86_64-linux-gnu/libQCore.so.4
#2 0x0000789f50f83f5f in QSemiaaphore::acquire(int) () from /lib/x86_64-linux-gnu/libQCore.so.4
#3 0x0000789f50f8283dcb in QgsConnectionPoolGroup::QgsPostgresConn*::acquire (this=0x7f88b8012f0) at /lib/x86_64-linux-gnu/libQCore.so.4
#4 0x0000789f50f8283dcb in QgsConnectionPool::QgsPostgresConnPoolGroup::QgsPostgresConnPoolGroup::acquireConnection (this=0x7f88b8012f0) at /lib/x86_64-linux-gnu/libQCore.so.4
#5 0x0000789f50f8283dcb in QgsConnectionPool::QgsPostgresConnPoolGroup::QgsPostgresConnPoolGroup::acquireConnection (this=0x7f88b8012f0) at /lib/x86_64-linux-gnu/libQCore.so.4
2021-09-08
Thread 1 (Thread 0x7f8595000800 (LWP 242444)):

#0  pthread_cond_wait@GLIBC_2.3.2 at /lib/x86_64-linux-gnu/libpthread.so.0
#1  0x00007895300c8a16 in QWaitCondition::wait(QMutex*, unsigned long) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#2  0x0000789534b9e4 in QFutureInterfaceBase::waitForFinished() () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#3  0x000078952b056a28 in QgsMapRendererParallelJob::cancel (this=0x57c2ba0) at /usr/src/qgis-2.8/src/core/qgsmaprendereparalleljob.cpp:92
#4  0x0000789544d6219 in QgsMapCanvas::stopRendering (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:778
#5  0x0000789544d6219 in QgsMapCanvas::refreshMap (this=0x26c7680) at /usr/src/qgis-2.8/src/gui/qgsmapcanvas.cpp:657
#6  0x0000789544d6219 in QgsMapCanvas::qt_static_metacall (_o=0x26c7680, _c=QMetaObject::InvokeMetaMethod, _id=41, _a=0x7fff26747150) at /usr/src/qgis/build/2.8/src/gui/moc_qgsmapcanvas.cxx:168
#7  0x0000789544d6219 in QgsMapCanvas::qt_static_metacall (_o=0x26c7680, _c=QMetaObject::InvokeMetaMethod, _id=41, _a=0x7fff26747150) at /usr/src/qgis/build/2.8/src/gui/moc_qgsmapcanvas.cxx:168
#8  0x0000789544d6219 in QgsMapCanvas::qt_static_metacall (_o=0x26c7680, _c=QMetaObject::InvokeMetaMethod, _id=41, _a=0x7fff26747150) at /usr/src/qgis/build/2.8/src/gui/moc_qgsmapcanvas.cxx:168
#9  0x0000789544d6219 in QgsMapCanvas::qt_static_metacall (_o=0x26c7680, _c=QMetaObject::InvokeMetaMethod, _id=41, _a=0x7fff26747150) at /usr/src/qgis/build/2.8/src/gui/moc_qgsmapcanvas.cxx:168
#10 0x0000789544d6219 in QgsMapCanvas::qt_static_metacall (_o=0x26c7680, _c=QMetaObject::InvokeMetaMethod, _id=41, _a=0x7fff26747150) at /usr/src/qgis/build/2.8/src/gui/moc_qgsmapcanvas.cxx:168
#11 0x0000789544d6219 in QgsMapCanvas::qt_static_metacall (_o=0x26c7680, _c=QMetaObject::InvokeMetaMethod, _id=41, _a=0x7fff26747150) at /usr/src/qgis/build/2.8/src/gui/moc_qgsmapcanvas.cxx:168

2021-09-08

#14 - 2015-07-31 03:26 AM - Sandro Santilli
- Target version deleted (Future Release - High Priority)
- Affected QGIS version changed from 2.6.0 to 2.8.2

#15 - 2015-07-31 03:26 AM - Sandro Santilli
Could it be the lack of exception handling in Thread 2? 

msg=0x7f88a402a718 "\"GEOS exception: IllegalArgumentException: point array must contain 0 or >1 elements\""

#16 - 2015-07-31 05:48 AM - Sandro Santilli
- File invalid_topo.sql.gz added

2021-09-08
I'm attaching a dump to reproduce this. I could reproduce it just fine with 2.8. Master doesn't seem to have the problem.

#17 - 2015-07-31 06:23 AM - Giovanni Manghi
- Affected QGIS version changed from 2.8.2 to 2.8.3

#18 - 2015-10-05 03:26 AM - Jürgen Fischer
- Category set to Symbology

#19 - 2016-06-09 03:17 AM - Sandro Santilli
- Status changed from Reopened to In Progress

I cannot reproduce with current master either (2.15 -- d1cac84).
Given 2.14 is the new LTR I'll test that one and if fixed would close this bug.

#20 - 2016-06-09 03:47 AM - Sandro Santilli
- Target version set to Version 2.14
- Status changed from In Progress to Closed
- Resolution set to fixed/implemented

2.14.3 is not affected either, while I confirm 2.8.9 is.
Given 2.14 is the new LTR, I'm closing this as fixed.

Files

invalid_topo.sql.gz  83.6 KB  2015-07-31  Sandro Santilli