

QGIS Application - Bug report #19630
crash when using QThreadPool + QRunnable

2018-08-15 05:01 PM - Min Min

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Python plugins	
Affected QGIS version:	3.0.3	Regression?: No
Operating System:	Windows 10 x64	Easy fix?: No
Pull Request or Patch applied:	No	Resolution:
Crashes QGIS or corrupts data:	Yes	Copied to github as #: 27457

Description

User Feedback

crash when using QThreadPool + QRunnable in plugin

no GUI updating function is executed in QRunnable. QRunnable writes data to local file, create a QgsVectorLayer, getFeatures, fields, addFeatures, addAttributes (fields) to QgsVectorLayer/QgsDataProvider. When editing, QMutex and QMutexLocker is used.

tasks assigned to QThreadPool has finished sucessfully, QThreadPool.activeThreadCount() returns 0

After tasks finished around 30-60 sec, QGIS crash

Report Details

Crash ID: a279b085a2ce54c5ff69e8b1e03c403266d4bf00

Stack Trace

QCoreApplication::notifyInternal2 :
QEventDispatcherWin32Private::sendTimerEvent :
QEventDispatcherWin32::processEvents :
CallWindowProcW :
DispatchMessageW :
QEventDispatcherWin32::processEvents :
qt_plugin_query_metadata :
QEventLoop::exec :
QCoreApplication::exec :
main :
BaseThreadInitThunk :
RtlUserThreadStart :

QGIS Info

QGIS Version: 3.0.3-Girona
QGIS code revision: commit:8a899c8758
Compiled against Qt: 5.9.2
Running against Qt: 5.9.2
Compiled against GDAL: 2.2.4
Running against GDAL: 2.2.4

System Info

CPU Type: x86_64
Kernel Type: winnt
Kernel Version: 10.0.15063

History

#1 - 2018-08-22 11:42 AM - Min Min

Error caused by reading feature from a QgsVectorLayer in a QThread. As QgsVectorLayer use QgsConnectionPool for fetching feature, and QgsConnectionPool is singleton and always run in main thread (not thread-safe)

timerEvent in Stack Trace is caused by this connection pool. Whether this is a bug, or by design is unclear.

#2 - 2018-08-22 12:17 PM - Nyal Dawson

It's not safe to fetch features directly from a thread - you need to first obtain the feature iterator in the main thread, and then interested over the features in the spawned thread.

#3 - 2018-09-03 03:42 PM - Min Min

- *Status changed from Open to Closed*

getting feature iterator in main thread and getFeatures in spawned thread works without crash.
problem resolved !