QGIS Application - Bug report #19762 QgsApplication.setMaxThreads not work appropriately

2018-09-03 08:13 PM - Francisco Raga

Status: Closed
Priority: Normal

Assignee:

Category: Unknown

Affected QGIS version:3.3(master)

Operating System:

Pull Request or Patch shapplied:

Regression?:

Regression?:

No

Resolution:

invalid

Crashes QGIS or corru**pts** data:

Copied to github as #: 27587

Description

qgis documentation say that if maxthreads is -1 means use all available cores.but no set any value if put -1

sample code:

from qgis.core import QgsApplication from qgis.core import QgsApplication QgsApplication.setMaxThreads(-1)

for solved this issue now:

from PyQt5.QtCore import QThread from qgis.core import QgsApplication threadcount = QThread.idealThreadCount() QgsApplication.setMaxThreads(threadcount)

c++ code: https://qgis.org/api/qgsapplication_8cpp_source.html#l01645

History

#1 - 2018-09-25 11:23 AM - Jürgen Fischer

- Status changed from Open to Feedback

How is that different from the quoted code?

#2 - 2018-09-28 04:22 PM - Francisco Raga

Jürgen Fischer wrote:

How is that different from the quoted code?

then -1 set max thread if we see the API and it just does not do anything

#3 - 2018-09-29 09:18 AM - Jürgen Fischer

Francisco Raga wrote:

2025-04-27 1/3

```
Jürgen Fischer wrote:
     How is that different from the quoted code?
    then -1 set max thread if we see the API and it just does not do anything
What do you mean? If maxThreads is -1 it fetches QThread::idealThreadCount() and set that - like your code.
   void QgsApplication::setMaxThreads( int maxThreads )
    {
     QgsDebugMsg( QString( "maxThreads: %1" ).arg( maxThreads ) );
     // make sure value is between 1 and #cores, if not set to -1 (use #cores)
     // 0 could be used to disable any parallel processing
     if ( maxThreads < 1 || maxThreads > QThread::idealThreadCount() )
      maxThreads = -1;
     // save value
     ABISYM( mMaxThreads ) = maxThreads;
     // if -1 use #cores
     if ( maxThreads == -1 )
      maxThreads = QThread::idealThreadCount();
     // set max thread count in QThreadPool
     QThreadPool::globalInstance()->setMaxThreadCount( maxThreads );
     QgsDebugMsg(QString("set QThreadPool max thread count to %1").arg(QThreadPool::globalInstance()->maxThreadCount()));
#4 - 2018-09-29 12:15 PM - Francisco Raga
- File 3cores.png added
- File minus1.png added
- File 8cores.png added
Jürgen Fischer wrote:
    Francisco Raga wrote:
     Jürgen Fischer wrote:
      How is that different from the quoted code?
     then -1 set max thread if we see the API and it just does not do anything
    What do you mean? If maxThreads is -1 it fetches QThread::idealThreadCount() and set that - like your code.
   [...]
```

Yes ,I know,but it doesn't work , When I put -1 , it doesn't check the QComboBox and doesn't change the spinbox,(attach minus1.png) but my pc have 8

2025-04-27 2/3

#5 - 2018-09-29 01:33 PM - Jürgen Fischer

- Resolution set to invalid
- Status changed from Feedback to Closed

Francisco Raga wrote:

Yes ,I know,but it doesn't work , When I put -1 , it doesn't check the QComboBox and doesn't change the spinbox,(attach minus1.png) but my pc have 8 cores,and now I write 3 or 8 , it sets the value well . It's weird,I know

That's the intended behavior. The checkbox expresses a limit and the spinbox shows what the limit is. -1 means unlimited and so the checkbox isn't checked. It just doesn't check whether the upper limit is also the physical limit - but effectively it's the same.

Files

3cores.png	153 KB	2018-09-29	Francisco Raga
8cores.png	155 KB	2018-09-29	Francisco Raga
minus1.png	138 KB	2018-09-29	Francisco Raga

2025-04-27 3/3