

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)	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: invalid
Crashes QGIS or corrupts data: No	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:

Jürgen Fischer wrote:

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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:

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[...]

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

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

- Resolution set to invalid

- Status changed from Feedback to Closed

Francisco Raga wrote:

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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