

Status:	Closed	
Priority:	High	
Assignee:	Alessandro Pasotti	
Category:	Processing/Core	
Affected QGIS version:	3.5(master)	Regression?: No
Operating System:	Any	Easy fix?: No
Pull Request or Patch supplied:	Yes	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	Yes	Copied to github as #: 29088

Description

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QGIS makes a hard crash when the createInstance() method calls a non-existent constructor in a python processing script class ( QgsProcessingAlgorithm).

This is an easy error to make after creating a new script from a template.

Reproduction

- Steps:
- Create a new script in the Processing Toolbox using 'Create New Script from Template...'
  - Rename class ExampleProcessingAlgorithm to anything else (such as MyProcessingAlgorithm). Leave reference to ExampleProcessingAlgorithm() in createInstance().
  - Save template script
  - Execute script by double-clicking it in Scripts/Example scripts/My script
  - ':( QGIS Crashed' dialog

Result

Crash ID: 4e33457d15a27ee43b8270be864ceb43b1208535

Stack Trace

QgsProcessingAlgorithm::setProvider :  
QgsProcessingAlgorithm::create :  
PyInit\_\_core :  
PyMethodDef\_RawFastCallKeywords :  
PyMethodDef\_RawFastCallKeywords :  
PyEval\_EvalFrameDefault :  
PyFunction\_FastCallDict :  
PyMethodDef\_RawFastCallDict :  
PyObject\_Call :  
PyInit\_QtCore :  
PyInit\_QtCore :  
PyInit\_QtCore :  
PyInit\_QtCore :  
PyInit\_QtCore :  
QMetaObject::activate :  
QAbstractItemView::doubleClicked :  
QTreeView::mouseDoubleClickEvent :  
QWidget::event :  
QFrame::event :  
QAbstractItemView::viewportEvent :  
QCoreApplicationPrivate::sendThroughObjectEventFilters :  
QApplicationPrivate::notify\_helper :  
QApplication::notify :  
QgsApplication::notify :  
QCoreApplication::notifyInternal2 :

QApplicationPrivate::sendMouseEvent :  
QSizePolicy::QSizePolicy :  
QSizePolicy::QSizePolicy :  
QApplicationPrivate::notify\_helper :  
QApplication::notify :  
QgsApplication::notify :  
QCoreApplication::notifyInternal2 :  
QGuiApplicationPrivate::processMouseEvent :  
QWindowSystemInterface::sendWindowSystemEvents :  
QEventDispatcherWin32::processEvents :  
CallWindowProcW :  
DispatchMessageW :  
QEventDispatcherWin32::processEvents :  
qt\_plugin\_query\_metadata :  
QEventLoop::exec :  
QCoreApplication::exec :  
main :  
BaseThreadInitThunk :  
RtlUserThreadStart :

QGIS Info  
QGIS Version: 3.4.4-Madeira  
QGIS code revision: f6ddc62fdb  
Compiled against Qt: 5.11.2  
Running against Qt: 5.11.2  
Compiled against GDAL: 2.4.0  
Running against GDAL: 2.4.0

System Info  
CPU Type: x86\_64  
Kernel Type: winnt  
Kernel Version: 10.0.17134

## Associated revisions

**Revision 8db38afb - 2019-02-18 03:21 PM - Alessandro Pasotti**

Processing: fix crash in alg runner task with bad scripts

Fixes #21270

With test

## History

**#1 - 2019-02-16 10:54 AM - Giovanni Manghi**

- Priority changed from Normal to High

**#2 - 2019-02-18 02:47 PM - Alessandro Pasotti**

- Assignee set to Alessandro Pasotti

- Operating System changed from Windows 10 Pro - build 17134.523 to Any

- Affected QGIS version changed from 3.4.4 to 3.5(master)

**#3 - 2019-02-18 03:25 PM - Alessandro Pasotti**

- Status changed from Open to In Progress

- Resolution set to fixed/implemented

- Pull Request or Patch supplied changed from No to Yes

PR <https://github.com/qgis/QGIS/pull/9193>

Btw, there are endless ways to crash QGIS from bad python code, we will never be able to prevent this to happen:

[http://enki-editor.org/2014/08/23/Pyqt\\_mem\\_mgmt.html](http://enki-editor.org/2014/08/23/Pyqt_mem_mgmt.html)

**#4 - 2019-02-20 07:43 AM - Alessandro Pasotti**

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

Applied in changeset commit:qgis|8db38afb86d54b4481b23216ae13ed9cbcd8789b.