

QGIS Application - Bug report #21270

QGIS crashes when createInstance() uses wrong constructor in a QgsProcessingAlgorithm subclass

2019-02-14 01:59 PM - Reino Ruusu

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

#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.