QGIS Application - Bug report #16343
2.18 build fails with latest sip/pyqt4

2017-03-12 07:47 AM - Doug Newgard

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Build/Install		
Affected QGIS version:	2.18.4	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	24253

Description

Even after commit:85a0db24f32351f6096cd8282f03ad5c2f4e6ef5, build still fails with sip 4.19.1 and pyqt4 4.12

```
[ 91%] Generating ui_dialogAbout.py
Traceback (most recent call last):
  File "../../../../../scripts/pyuic-wrapper.py", line 26, in <module>
    import qgis.PyQt.uic.pyuic
  File "/home/dnewgard/PKGBUILDs/qgis/src/QGIS/build/output/python/qgis/__init__.py", line 27, in <m
odule>
    from qgis.core import QgsFeature, QgsGeometry
  File "/home/dnewgard/PKGBUILDs/qgis/src/QGIS/build/output/python/qgis/core/__init__.py", line 30,
in <module>
    from qgis._core import *
RuntimeError: qgis._core cannot import type 'QList<QVariant>' from PyQt4.QtCore
make[2]: *** [python/plugins/GdalTools/tools/CMakeFiles/zzz-GdalTools-2-depend.dir/build.make:118: p
ython/plugins/GdalTools/tools/ui_dialogAbout.py] Error 1
make[1]: *** [CMakeFiles/Makefile2:4667: python/plugins/GdalTools/tools/CMakeFiles/zzz-GdalTools-2-d
epend.dir/all] Error 2
make[1]: *** Waiting for unfinished jobs....++
```

Build of 2.14 succeeds, but has the same error at runtime, causing python support to be disabled.

History

#1 - 2017-03-20 11:21 PM - Shai Efrati

More details and a workaround were published here: https://aur.archlinux.org/packages/qgis/ but Python support is still an issue.

#2 - 2017-03-24 09:33 AM - Doug Newgard

Fedora has a patch that works: https://src.fedoraproject.org/cgit/rpms/qgis.git/plain/qgis_sip-ftbfs.patch

Second part has already been applied.

#3 - 2017-05-01 01:01 AM - Giovanni Manghi

- Regression? set to No

- Easy fix? set to No

#4 - 2017-05-01 03:55 PM - Alexei Ardyakov

The patch doesn't work for me:

```
[ 99%] Generating ui_dialogBase.py
make[2]: *** [python/plugins/GdalTools/tools/CMakeFiles/zzz-GdalTools-2-depend.dir/build.make:118:
python/plugins/GdalTools/tools/ui_dialogAbout.py] Segmentation fault (core dumped)
make[2]: *** Deleting file 'python/plugins/GdalTools/tools/ui_dialogAbout.py'
make[2]: *** Waiting for unfinished jobs....
make[2]: *** [python/plugins/db_manager/CMakeFiles/zzz-db_manager-18-depend.dir/build.make:73:
python/plugins/db_manager/ui_DlgAddGeometryColumn.py] Segmentation fault (core dumped)
make[2]: *** Deleting file 'python/plugins/db_manager/ui_DlgAddGeometryColumn.py'
make[2]: *** [python/plugins/db_manager/db_plugins/postgis/plugins/versioning/CMakeFiles/zzz-db_manager-8-depend.dir/build.make:63:
python/plugins/db_manager/db_plugins/postgis/plugins/versioning/ui_DlgVersioning.py] Segmentation fault (core dumped)
make[2]: *** Deleting file 'python/plugins/db_manager/db_plugins/postgis/plugins/versioning/ui_DlgVersioning.py'
make[2]: *** [python/plugins/GdalTools/tools/CMakeFiles/zzz-GdalTools-2-depend.dir/build.make:122:
python/plugins/GdalTools/tools/ui_dialogBase.py] Segmentation fault (core dumped)
make[2]: *** Deleting file 'python/plugins/GdalTools/tools/ui_dialogBase.py'
make[1]: *** [CMakeFiles/Makefile2:5402:
python/plugins/db_manager/db_plugins/postgis/plugins/versioning/CMakeFiles/zzz-db_manager-8-depend.dir/all] Error 2
make[1]: *** Waiting for unfinished jobs....
make[1]: *** [CMakeFiles/Makefile2:4905: python/plugins/db_manager/CMakeFiles/zzz-db_manager-18-depend.dir/all] Error 2
make[1]: *** [CMakeFiles/Makefile2:4766: python/plugins/GdalTools/tools/CMakeFiles/zzz-GdalTools-2-depend.dir/all] Error 2
[ 99%] Generating ui_console_history_dlg.py
[ 99%] Generating ui_console_compile_apis.py
[ 99%] Generating ui_console_settings.py
make[2]: *** [python/console/CMakeFiles/pyconsole.dir/build.make:63: python/console/ui_console_compile_apis.py] Segmentation fault (core
dumped)
make[2]: *** Deleting file 'python/console/ui_console_compile_apis.py'
make[2]: *** Waiting for unfinished jobs....
make[2]: *** [python/console/CMakeFiles/pyconsole.dir/build.make:71: python/console/ui_console_settings.py] Segmentation fault (core dumped)
make[2]: *** Deleting file 'python/console/ui_console_settings.py'
make[2]: *** [python/console/CMakeFiles/pyconsole.dir/build.make:67: python/console/ui_console_history_dlg.py] Segmentation fault (core
dumped)
make[2]: *** Deleting file 'python/console/ui_console_history_dlg.py'
make[1]: *** [CMakeFiles/Makefile2:8484: python/console/CMakeFiles/pyconsole.dir/all] Error 2
make: *** [Makefile:150: all] Error 2
==> ERROR: A failure occurred in build().
    Aborting...
```

{{collapse(coredumpctl info 20473)

```
           PID: 20473 (python2)
           UID: 1000 (***)
           GID: 100 (users)
        Signal: 11 (SEGV)
     Timestamp: ***
  Command Line: /usr/bin/python2 ../../../../../scripts/pyuic-wrapper.py
/home/username/builds/qgis/src/qgis-2.18.7/python/plugins/GdalTools/tools/dialogAbout.ui -o
/home/username/builds/qgis/src/qgis-2.18.7/build/python/plugins/GdalTools/tools/ui_dialogAbout.py
    Executable: /usr/bin/python2.7
```

Control Group: /user.slice/user-1000.slice/session-c2.scope
Unit: session-c2.scope
Slice: user-1000.slice
Session: c2
Owner UID: 1000 (***)
Boot ID: 49b6e9df028b43dab8c003826674190d
Machine ID: 0d1396b2265a492ab8980d8772cb64ea
Hostname: ***
Storage: /var/lib/systemd/coredump/core.python2.1000.49b6e9df028b43dab8c0038
Message: Process 20473 (python2) of user 1000 dumped core.

Stack trace of thread 20473:
#0 0x00007fa2e7900d36 strlen (libc.so.6)
#1 0x00007fa2e7ed81b9 PyString_FromFormatV (libpython2.7.so.1.0)
#2 0x00007fa2e7f38a08 PyErr_Format (libpython2.7.so.1.0)
#3 0x00007fa2e6d4aef7 n/a (sip.so)
#4 0x00007fa2cf8cc926 initkdeui (kdeui.so)
#5 0x00007fa2e7f4303c _PyImport_LoadDynamicModule (libpython2.7.so
#6 0x00007fa2e7f40f81 import_submodule (libpython2.7.so.1.0)
#7 0x00007fa2e7f41209 load_next (libpython2.7.so.1.0)
#8 0x00007fa2e7f41ca8 PyImport_ImportModuleLevel (libpython2.7.so.
#9 0x00007fa2e7f23907 builtin___import__ (libpython2.7.so.1.0)
#10 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#11 0x00007fa2e7f25716 PyEval_CallObjectWithKeywords (libpython2.7.
#12 0x00007fa2e7f28552 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#13 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#14 0x00007fa2e7f2bd02 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#15 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#16 0x00007fa2e7eb41bb function_call (libpython2.7.so.1.0)
#17 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#18 0x00007fa2e7e9d05a instancemethod_call (libpython2.7.so.1.0)
#19 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#20 0x00007fa2e7eea806 slot_tp_init (libpython2.7.so.1.0)
#21 0x00007fa2e7ee705d type_call (libpython2.7.so.1.0)
#22 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#23 0x00007fa2e7f2b503 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#24 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#25 0x00007fa2e7eb41bb function_call (libpython2.7.so.1.0)
#26 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#27 0x00007fa2e7e9d05a instancemethod_call (libpython2.7.so.1.0)
#28 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#29 0x00007fa2e7f2b503 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#30 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#31 0x00007fa2e7eb41bb function_call (libpython2.7.so.1.0)
#32 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#33 0x00007fa2e7e9d05a instancemethod_call (libpython2.7.so.1.0)
#34 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#35 0x00007fa2e7eea806 slot_tp_init (libpython2.7.so.1.0)
#36 0x00007fa2e7ee705d type_call (libpython2.7.so.1.0)
#37 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#38 0x00007fa2e7f2b503 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#39 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#40 0x00007fa2e7f2bd02 PyEval_EvalFrameEx (libpython2.7.so.1.0)

#41 0x00007fa2e7f2be38 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#42 0x00007fa2e7f2be38 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#43 0x00007fa2e7f2be38 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#44 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#45 0x00007fa2e7f2f9e8 PyEval_EvalCode (libpython2.7.so.1.0)
#46 0x00007fa2e7f3ffc7 PyImport_ExecCodeModuleEx (libpython2.7.so.1
#47 0x00007fa2e7f4025e load_source_module (libpython2.7.so.1.0)
#48 0x00007fa2e7f40f81 import_submodule (libpython2.7.so.1.0)
#49 0x00007fa2e7f414ec ensure_fromlist (libpython2.7.so.1.0)
#50 0x00007fa2e7f41d8e PyImport_ImportModuleLevel (libpython2.7.so.
#51 0x00007fa2e7f23907 builtin___import__ (libpython2.7.so.1.0)
#52 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)
#53 0x00007fa2e7f25716 PyEval_CallObjectWithKeywords (libpython2.7.
#54 0x00007fa2e7f28552 PyEval_EvalFrameEx (libpython2.7.so.1.0)
#55 0x00007fa2e7f2f8dc PyEval_EvalCodeEx (libpython2.7.so.1.0)
#56 0x00007fa2e7f2f9e8 PyEval_EvalCode (libpython2.7.so.1.0)
#57 0x00007fa2e7f3ffc7 PyImport_ExecCodeModuleEx (libpython2.7.so.1
#58 0x00007fa2e7f4025e load_source_module (libpython2.7.so.1.0)
#59 0x00007fa2e7f40f81 import_submodule (libpython2.7.so.1.0)
#60 0x00007fa2e7f41209 load_next (libpython2.7.so.1.0)
#61 0x00007fa2e7f41ca8 PyImport_ImportModuleLevel (libpython2.7.so.
#62 0x00007fa2e7f23907 builtin___import__ (libpython2.7.so.1.0)
#63 0x00007fa2e7e8d682 PyObject_Call (libpython2.7.so.1.0)

}}
I tried to build 2.18.6 and 2.18.7, tried different thread count in MAKEFLAGS, with the same result.

#5 - 2017-05-16 11:51 AM - Alexei Ardyakov

It turned out in my case segfault was caused by obsolete Arch Linux package kdebindings-python2. After removing it, QGIS compiles and runs well, so my report is probably unrelated to the main issue.

#6 - 2017-07-12 02:12 AM - Doug Newgard

- Status changed from Open to Closed

It appears that sip (or related packages) 4.19.3 fixed this

#7 - 2017-07-12 11:20 AM - Jürgen Fischer

- Description updated

#8 - 2017-07-14 10:04 AM - marisn -

- Status changed from Closed to Reopened
- Operating System deleted (Arch Linux)

Sorry, it is not fixed by sip/PyQt upgrade. There is still necessity to also remove one line from qgscoordinatetransform.sip file (as suggested by Arch users).
python/core/qgscoordinatetransform.sip delete/uncomment 18th line: "extern PyObject *sipExportedExceptions__core[2];"

Only then 2.18.10 (commit:bd1f9bf93e) compiles with:
dev-python/sip-4.19.3
dev-python/PyQt4-4.12.1

#9 - 2017-07-14 02:10 PM - Doug Newgard

- Status changed from Reopened to Closed

Which is a completely different issue