

QGIS Application - Bug report #17198

2.18.13 (qt5,python3.5) build fails on "no Element >ob_type<" in pyspatiallite/src/connection.c / parallel make issue

2017-09-26 09:27 AM - Ervin Peters

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Build/Install	
Affected QGIS version:	2.18.13	Regression?: No
Operating System:	Gentoo Linux, mostly stable	Easy fix?: No
Pull Request or Patch supplied:		Resolution: invalid
Crashes QGIS or corrupts data:		Copied to github as #: 25097

Description

I tried to build qgis-2.18.13 on my Gentoo Linux box with a modified ebuild, Python3.5 and qt5 (qt4 disabled)

The build fails:

```
Building C object python/ext-libs/pyspatiallite/CMakeFiles/pyspatiallite.dir/src/connection.c.o
cd /var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13_build/python/ext-libs/pyspatiallite &&
/usr/bin/x86_64-pc-linux-gnu-gcc -DQGIS_DISABLE_DEPRECATED -DQT_CONCURRENT_LIB -DQT_CORE_LIB
-DQT_DISABLE_DEPRECATED_BEFORE=0 -DQT_GUI_LIB -DQT_NETWORK_LIB -DQT_NO_CAST_TO_ASCII
-DQT_NO_DEBUG -DQT_POSITIONING_LIB -DQT_PRINTSUPPORT_LIB -DQT_SQL_LIB -DQT_SVG_LIB
-DQT_WEBKITWIDGETS_LIB -DQT_WEBKIT_LIB -DQT_WIDGETS_LIB -DQT_XML_LIB -DWITH_QTWEBKIT
-Dpyspatiallite_EXPORTS -I/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13_build -I/usr/include/python3.4m
-isystem /usr/include/qt5 -isystem /usr/include/qt5/QtXml -isystem /usr/include/qt5/QtCore -isystem
/usr/lib64/qt5/mkspecs/linux-g++ -isystem /usr/include/qt5/QtConcurrent -isystem /usr/include/qt5/QtGui -isystem
/usr/include/qt5/QtWidgets -isystem /usr/include/qt5/QtPrintSupport -isystem /usr/include/qt5/QtSvg -isystem
/usr/include/qt5/QtNetwork -isystem /usr/include/qt5/QtWebKit -isystem /usr/include/qt5/QtWebKitWidgets -isystem
/usr/include/qt5/QtSql -isystem /usr/include/qt5/QtPositioning -DNDEBUG -march=broadwell -O2 -pipe -fPIC
-DCORE_EXPORT= -DGUI_EXPORT= -DPYTHON_EXPORT= -DANALYSIS_EXPORT= -DAPP_EXPORT=
-DCUSTOMWIDGETS_EXPORT= -DSERVER_EXPORT= -DMODULE_NAME="spatialite.dbapi2" -fPIC -w -o
CMakeFiles/pyspatiallite.dir/src/connection.c.o -c
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c: In Funktion
»pysqlite_connection_dealloc«:
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c:304:9: Fehler:
»pysqlite_Connection {aka struct <anonym>}« hat kein Element namens »ob_type«
    self->ob_type->tp_free((PyObject*)self);
    ^
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c: In Funktion
»pysqlite_connection_create_collation«:
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c:1464:74: Fehler:
»PyString_Type« nicht deklariert (erste Benutzung in dieser Funktion)
    if (!PyArg_ParseTuple(args, "O!O:create_collation(name, callback)", &PyString_Type, &name, &cal
    ^
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c:1464:74:
Anmerkung: jeder nicht deklarierte Bezeichner wird nur einmal für jede Funktion, in der er vorkommt, gemeldet
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c: Auf höchster
Ebene:
/var/tmp/portage/sci-geosciences/qgis-2.18.13-r2/work/qgis-2.18.13/python/ext-libs/pyspatiallite/src/connection.c:1614:67: Fehler:
»RO« ist hier nicht deklariert (nicht in einer Funktion)
```

```
{"Warning", T_OBJECT, offsetof(pysqlite_Connection, Warning), RO},
```

googling for `ob_type` (the first error) and python3 gives me:

Another change in the object header is that the `PyObject_HEAD` macro has changed so that `ob_type` is now in a nested structure. This means you no longer can pick the `ob_type` directly from the struct, so code like `ob->ob_type` stops working. You should replace this with `Py_TYPE(ob)`. The `Py_TYPE` macro doesn't appear until Python 2.6, so to support earlier versions we make another `#ifndef`:

```
#ifndef Py_TYPE
#define Py_TYPE(ob) (((PyObject*)(ob))->ob_type)
#endif
```

from <http://python3porting.com/cextensions.html>

It seems to me that it is a porting to python3 issue.

Also there is a parallel make problem in linking the gui:

```
[ 59%] Linking CXX shared library ../../output/lib64/libqgis_gui.so

[...]
```

```
cd /var/tmp/portage/sci-geosciences/qgis-2.18.12-r100/work/qgis-2.18.12_build/src/gui && /usr/bin/cmake -E
cmake_symlink_library ../../output/lib64/libqgis_gui.so.2.18.12 ../../output/lib64/libqgis_gui.so.2.18.12
../../output/lib64/libqgis_gui.so
make[2]: Verzeichnis „/var/tmp/portage/sci-geosciences/qgis-2.18.12-r100/work/qgis-2.18.12_build“ wird verlassen
[ 59%] Built target qgis_gui
make[1]: Verzeichnis „/var/tmp/portage/sci-geosciences/qgis-2.18.12-r100/work/qgis-2.18.12_build“ wird verlassen
make: *** [Makefile:150: all] Fehler 2
```

Running with the build with `-j1` as `MAKEOPTS` the build process goes further.

erwin

History

#1 - 2017-09-26 11:03 AM - Giovanni Manghi

- Category changed from Data Provider/Spatialite to Build/Install

#2 - 2018-08-25 06:16 PM - Ervin Peters

- Status changed from Open to Closed

meaningless, QGIS3 is available and working more or less perfectly

#3 - 2018-08-29 11:37 AM - Giovanni Manghi

- Resolution set to invalid