

## Quassel IRC - Bug #1544

### Quassel does not compile with qt 5.14.0

12/24/2019 04:47 PM - buzo

<b>Status:</b>	Confirmed	<b>Start date:</b>	12/24/2019
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.14.0	<b>OS:</b>	Any
<b>Version:</b>	0.13.0		
<b>Description</b>			
Compiling Quassel 0.13.1 with qt 5.14.0 gives compilation errors:			
<pre>In file included from /usr/include/qt/QtCore/QDataStream:1,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/syncableobject.h:24,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.h:25,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.cpp:21: /usr/include/qt/QtCore/qdatastream.h:389:1: note: candidate: 'typename std::enable_if&lt;std::is_enum&lt;_Tp&gt;::value, QDataStream&amp;&gt;::type&amp; operator&lt;&lt;(QDataStream&amp;, const T&amp;) [with T = DccConfig::PortSelectionMode; typename std::enable_if&lt;std::is_enum&lt;_Tp&gt;::value, QDataStream&amp;&gt;::type = QDataStream&amp;]'  389   operator&lt;&lt;(QDataStream &amp;s, const T &amp;t)         ^~~~~~ In file included from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.cpp:25: /build/quassel-core-small/src/quassel-0.13.1/src/common/types.h:152:14: note: candidate: 'QDataStream&amp; operator&lt;&lt;(QDataStream&amp;, T) [with T = DccConfig::PortSelectionMode; &lt;template-parameter-1-2&gt; = void]'  152   QDataStream &amp;operator&lt;&lt;(QDataStream &amp;out, T value) {         ^~~~~~ In file included from /usr/include/qt/QtCore/qobject.h:54,     from /usr/include/qt/QtCore/qiodevice.h:45,     from /usr/include/qt/QtNetwork/qabstractsocket.h:44,     from /usr/include/qt/QtNetwork/qhostaddress.h:48,     from /usr/include/qt/QtNetwork/QHostAddress:1,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.h:23,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.cpp:21: /usr/include/qt/QtCore/qmetatype.h: In instantiation of 'static void QtMetaTypePrivate::QMetaTypeFunctionHelper&lt;T, Accepted&gt;::Load(QDataStream&amp;, void*) [with T = DccConfig::PortSelectionMode; bool Accepted = true]': /usr/include/qt/QtCore/qmetatype.h:1802:39:   required from 'void qRegisterMetaTypeStreamOperators(const char*, T*) [with T = DccConfig::PortSelectionMode]' /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.cpp:34:91:   required from here /usr/include/qt/QtCore/qmetatype.h:823:16: error: ambiguous overload for 'operator&gt;&gt;' (operand types are 'QDataStream' and 'DccConfig::PortSelectionMode')  823           stream &gt;&gt; *static_cast&lt;T*&gt;(t);                 ~~~~~^~~~~~ In file included from /usr/include/qt/QtCore/QDataStream:1,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/syncableobject.h:24,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.h:25,     from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.cpp:21: /usr/include/qt/QtCore/qdatastream.h:394:1: note: candidate: 'typename std::enable_if&lt;std::is_enum&lt;_Tp&gt;::value, QDataStream&amp;&gt;::type&amp; operator&gt;&gt;(QDataStream&amp;, T&amp;) [with T = DccConfig::PortSelectionMode; typename std::enable_if&lt;std::is_enum&lt;_Tp&gt;::value, QDataStream&amp;&gt;::type = QDataStream&amp;]'  394   operator&gt;&gt;(QDataStream &amp;s, T &amp;t)         ^~~~~~ In file included from /build/quassel-core-small/src/quassel-0.13.1/src/common/dccconfig.cpp:25: /build/quassel-core-small/src/quassel-0.13.1/src/common/types.h:166:14: note: candidate: 'QDataStream&amp; operator&gt;&gt;(QDataStream&amp;, T&amp;) [with T = DccConfig::PortSelectionMode; &lt;template-parameter-1-2&gt; = void]'  166   QDataStream &amp;operator&gt;&gt;(QDataStream &amp;in, T &amp;value) {         ^~~~~~ [82/172] Building CXX object src/common/CMakeFiles/mod_common.dir/mod_common_autogen/mocs_compilation.cpp.o</pre>			

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[83/172] Building CXX object src/common/CMakeFiles/mod_common.dir/ctcpevent.cpp.o
[84/172] Building CXX object src/common/CMakeFiles/mod_common.dir/coreinfo.cpp.o
[85/172] Building CXX object src/common/CMakeFiles/mod_common.dir/event.cpp.o
[86/172] Building CXX object src/common/CMakeFiles/mod_common.dir/eventmanager.cpp.o
ninja: build stopped: subcommand failed.
==> ERROR: A failure occurred in build().
```

## History

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### #1 - 01/04/2020 02:14 PM - crabbedhaloablution

There's a similar issue in musescore:

<https://musescore.org/en/node/299162>

They fixed it with a commit:

<https://github.com/musescore/MuseScore/pull/5583>

" Specializes template routines.

Qt 5.14 introduces serialisation/deserialisation for enum classes, this results in ambiguous templates between qdatastream.h and preferences.h. we specialize everything to workaround this."

### #2 - 01/07/2020 11:42 PM - rex4539

<https://github.com/quassel/quassel/pull/518>

### #3 - 01/08/2020 05:35 PM - buzo

Thanks. When can I expect a new Quassel release containing these changes?

### #4 - 04/11/2020 12:45 PM - buzo

The package built from the current Github version works fine on Arch Linux: <https://aur.archlinux.org/packages/quassel-core-small-git/>

Building version 0.13.1 still fails: <https://aur.archlinux.org/packages/quassel-core-small/>

Main bug report on Arch Linux: <https://bugs.archlinux.org/task/65085>

### #5 - 06/20/2020 11:58 PM - digitalcircuit

We're hoping to have a 0.14-rc1 in the upcoming weeks, so this will hopefully be addressed soon. The Quassel CI was also updated to test against Debian testing/etc ( <https://github.com/quassel/quassel/commit/1193d9d1f3f7c1c26e2c659b137046a31fe43bb4> ) to catch this sooner in the future.

Thanks for your patience!

### #6 - 06/21/2020 12:04 AM - digitalcircuit

- Status changed from New to Confirmed

- Target version set to 0.14.0

### #7 - 08/01/2020 02:27 PM - Morbius

Thanks for fixing this issue. About five months ago I opened a related [MacPorts ticket](#) , and I am looking forward to the next Quassel release.

### #8 - 04/10/2021 06:57 PM - buzo

By the way, qt 6 is out since a few months ...

### #9 - 09/23/2022 01:41 PM - Christophmorgan

This package does not build since Arch switched to qt 5.14.0, see upstream bug [#1544](#). They have fixed this on Github, but won't release a new version soon apparently. As a workaround, I have made the AUR package quassel-core-small-git, which seems to work fine.