

## Quassel IRC - Bug #1227

### Switching channels on OSX, Macbook retina, Quassel 0.9 takes > 7 seconds

05/23/2013 09:41 PM - miohtama

<b>Status:</b>	Resolved	<b>Start date:</b>	05/23/2013
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	Quassel Client	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Version:</b>	0.9-pre	<b>OS:</b>	Any

#### Description

The following scenario

- Core upgraded to 0.9
- Client upgraded to 0.9
- OSX Mountain Lion
- Having channel and private message buffers from **freenode.net** network
- When starting the client
- when choosing any buffer **for the first time**
- There is unresponsiveness of 5-10 seconds before channel is opened, the application goes to unresponsiveness mode

Below is the stacktrace from the slowdown grabbed from Xcode Instruments.

Note: There is noticeable backlog of events, but the issue did not appear on 0.8 and it also happens for buffers having only recent history (< 3 days, only couple of messages)

```
{}  
Running Time  Self  Symbol Name  
7411.0ms  99.9%  0.0  Main Thread 0x83519  
7411.0ms  99.9%  0.0  start  
7411.0ms  99.9%  0.0  main  
7411.0ms  99.9%  0.0  QApplication::exec()  
7411.0ms  99.9%  0.0  QEventLoop::exec(QFlags<QEventLoop::ProcessEventsFlag>)  
7411.0ms  99.9%  0.0  QEventLoop::processEvents(QFlags<QEventLoop::ProcessEventsFlag>)  
7411.0ms  99.9%  0.0  QEventDispatcherMac::processEvents(QFlags<QEventLoop::ProcessEventsFlag>)  
7411.0ms  99.9%  0.0  -[NSApplication run]  
7401.0ms  99.8%  0.0  -[QNSApplication sendEvent:]  
7401.0ms  99.8%  0.0  -[NSApplication sendEvent:]  
7401.0ms  99.8%  0.0  -[QCocoaWindow sendEvent:]  
7401.0ms  99.8%  0.0  -[NSWindow sendEvent:]  
7399.0ms  99.8%  0.0  qt_mac_handleMouseEvent(NSEvent*, QEvent::Type, Qt::MouseButton, QWidget*, bool)  
7399.0ms  99.8%  0.0  QApplicationPrivate::sendMouseEvent(QWidget*, QMouseEvent*, QWidget*, QWidget*,  
QWidget**, QPointer<QWidget>&, bool)  
7399.0ms  99.8%  0.0  QApplication::notifyInternal(QObject*, QEvent*)  
7399.0ms  99.8%  0.0  QApplication::notify(QObject*, QEvent*)  
7399.0ms  99.8%  0.0  QApplicationPrivate::notify_helper(QObject*, QEvent*)  
7399.0ms  99.8%  0.0  QApplicationPrivate::sendThroughObjectEventFilters(QObject*, QEvent*)  
7399.0ms  99.8%  0.0  QAbstractScrollAreaFilter::eventFilter(QObject*, QEvent*)  
7399.0ms  99.8%  0.0  QTreeView::viewportEvent(QEvent*)  
7399.0ms  99.8%  0.0  QAbstractItemView::viewportEvent(QEvent*)  
7399.0ms  99.8%  0.0  QAbstractScrollArea::viewportEvent(QEvent*)  
7399.0ms  99.8%  0.0  QFrame::event(QEvent*)  
7399.0ms  99.8%  0.0  QWidget::event(QEvent*)  
7399.0ms  99.8%  0.0  QAbstractItemView::mousePressEvent(QMouseEvent*)  
7399.0ms  99.8%  0.0  QTableWidgetItem::setCurrentIndex(QModelIndex const&,  
QFlags<QItemSelectionModel::SelectionFlag>)
```

7399.0ms	99.8%	0.0	QItemSelectionModel::currentChanged(QModelIndex const&, QModelIndex const&)
7399.0ms	99.8%	0.0	QMetaObject::activate(QObject*, QMetaObject const*, int, void**)
7399.0ms	99.8%	0.0	SelectionModelSynchronizer::syncedCurrentChanged(QModelIndex const&, QModelIndex const&)
7399.0ms	99.8%	0.0	QItemSelectionModel::setCurrentIndex(QModelIndex const&, QFlags<QItemSelectionModel::SelectionFlag>)
7399.0ms	99.8%	0.0	QItemSelectionModel::currentChanged(QModelIndex const&, QModelIndex const&)
7399.0ms	99.8%	0.0	QMetaObject::activate(QObject*, QMetaObject const*, int, void**)
7399.0ms	99.8%	0.0	BufferWidget::currentChanged(QModelIndex const&, QModelIndex const&)
7399.0ms	99.8%	0.0	AbstractBufferContainer::currentChanged(QModelIndex const&, QModelIndex const&)
7399.0ms	99.8%	0.0	AbstractBufferContainer::setCurrentBuffer(BufferId)
7399.0ms	99.8%	0.0	BufferWidget::createChatView(BufferId)
7399.0ms	99.8%	0.0	ChatView::ChatView(BufferId, QWidget*)
7399.0ms	99.8%	0.0	ChatView::init(MessageFilter*)
7399.0ms	99.8%	0.0	ChatScene::ChatScene(QAbstractItemModel*, QString const&, double, ChatView*)
7398.0ms	99.7%	0.0	QSortFilterProxyModel::rowCount(QModelIndex const&) const
7398.0ms	99.7%	0.0	QSortFilterProxyModelPrivate::create_mapping(QModelIndex const&) const
7398.0ms	99.7%	2.0	MessageFilter::filterAcceptsRow(int, QModelIndex const&) const
7319.0ms	98.7%	4.0	IgnoreListManager::_match(QString const&, QString const&, Message::Type, QString const&, QString const&)
3170.0ms	42.7%	1.0	QRegExp::exactMatch(QString const&) const
3159.0ms	42.6%	1.0	prepareEngine_helper(QRegExpPrivate*)
531.0ms	7.1%	0.0	QRegExp::~QRegExp()
352.0ms	4.7%	0.0	QRegExp::setCaseSensitivity(Qt::CaseSensitivity)
89.0ms	1.2%	0.0	IgnoreListManager::scopeMatch(QString const&, QString const&) const
7.0ms	0.0%	1.0	QRegExpMatchState::prepareForMatch(QRegExpEngine*)
1.0ms	0.0%	0.0	QRegExp::QRegExp(QString const&, Qt::CaseSensitivity, QRegExp::PatternSyntax)
1.0ms	0.0%	1.0	QRegExp::~QRegExp()
1.0ms	0.0%	1.0	QString::operator=(QString const&)
1.0ms	0.0%	1.0	QRegExpMatchState::match(QChar const*, int, int, bool, bool, int)
1.0ms	0.0%	1.0	QList<QString>::~QList()
1.0ms	0.0%	1.0	QString::fromAscii_helper(char const*, int)
1.0ms	0.0%	0.0	free
40.0ms	0.5%	1.0	MessageModel::data(QModelIndex const&, int) const
21.0ms	0.2%	2.0	clear(QVariant::Private*)
8.0ms	0.1%	1.0	BufferInfo::bufferName() const
2.0ms	0.0%	2.0	Message::~Message()
2.0ms	0.0%	2.0	NetworkModel::networkId(BufferId) const
2.0ms	0.0%	2.0	QVariant::constData() const
1.0ms	0.0%	1.0	QMetaType::destroy(int, void*)
1.0ms	0.0%	1.0	Message qvariant_cast<Message>(QVariant const&)
}}}			

## Associated revisions

### Revision 8677a82a - 03/20/2014 09:58 PM - Bombe

Only create the regular expression for content/sender matches once.

Fixes #1227.

### Revision 17fe4859 - 03/20/2014 10:46 PM - Bombe

Only create the regular expression for content/sender matches once.

Fixes #1227.

## History

### #1 - 05/23/2013 09:43 PM - miohtama

Also if it was unclear this happens only for my freenode.net buffers, not for other networks (ircnet, quakenet, irc.mozilla.org)

### #2 - 05/23/2013 09:44 PM - miohtama

Looks like clearing the ignore list resolved the issue.

**#3 - 05/28/2013 02:09 PM - sandsmark**

I suspect that it is partly because the QRegExp is recreated for every line.

**#4 - 06/19/2013 01:25 PM - jeroendeneef**

I also have the issue on Windows 7.  
However, my ignore list is empty.

**#5 - 02/02/2014 12:51 PM - Bombe**

I have moved the regex creation into the IgnoreListItem and that seems to have sped up the process of initially filling new buffers. However, there is still a noticable delay.

<https://github.com/Bombe/quassel/tree/issue-1227>

**#6 - 03/20/2014 10:44 PM - Bombe**

- *Status changed from New to Resolved*  
- *% Done changed from 0 to 100*

Applied in changeset quassel|commit:8677a82a6664da67c67610d0b438ee17904b12fb.