Quassel IRC - Bug #1227

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

05/23/2013 09:41 PM - miohtama

Status:	Resolved		**Start date:**	05/23/2013
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	100%
Category:	Quassel Client		**Estimated time:**	0.00 hour
Target version:				
Version:	0.9-pre		**OS:**	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         QCoreApplication::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                    QCoreApplication::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                       QCoreApplicationPrivate::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                               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                  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 initally 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.