Talk: How to perform file IO using QDataStream in Qt

Dor666 - Memory leak

Ηi,

I've tried this code like this in boost::test:

```
BOOST_AUTO_TEST_CASE( QFileAndQDataStreamBasicUsage)
{
   QFile file("c://test.txt");
   file.open(QIODevice::WriteOnly);
   QDataStream out(&file);  // we will serialize the data into the file
   out << "welcome to the Qt World";  // serialize a string
   file.close();

   QFile read("c://test.txt");
   read.open(QIODevice::ReadOnly);
   QDataStream in(&read);  // read the data serialized from the file
   QString str;
   in >> str;
}
```

And it gives me memory leaks:

Detected memory leaks!

```
Dumping objects ->
{9762} normal block at 0x009A4108, 40 bytes long.
                       > 00 00 00 00 CC CD CD CD 40 42 0F 00 00 00 00 00
               @B
{9761} normal block at 0x009BC1B8, 120 bytes long.
Data: <|c0\
                   L d\> 7C 63 4F 5C B0 06 9A 00 00 00 00 4C B9 64 5C
{9760} normal block at 0x009A06B0, 8 bytes long.
              > 3C 63 4F 5C B8 C1 9B 00
Data: <<c0\
{9759} normal block at 0x009A40B0, 40 bytes long.
                       > 00 00 00 00 CC CD CD CD 40 42 0F 00 00 00 00
{9758} normal block at 0x009AFE78, 60 bytes long.
                       > 01 00 00 00 B0 06 9A 00 C4 1E 00 00 00 CD CD CD
Data: <
Object dump complete.
```

dor666 16:39, 20 November 2012 (EET)

Hamishwillee - Fixed up text

Hi Dor666

Firstly, thanks for posting this feedback. I've tidied your layout - you can use Help:Code Syntax Highlighting for marking up code - see Help:Formatting for other wiki markup. To edit the text look for "Admin" link next to the "Comment" title.

I suspect the problem is that QFile read is opened but never closed. Can you try replacing

```
in >> str;
```

with

```
in >> str;
read.close()
```

Regards

Hamish

hamishwillee 05:45, 21 November 2012 (EET)

Dor666 -

Hi Hammish. Thank you for quick reply and layout fix.

I think, that file is closed automatically in QFile destructor.

I've tried also this:

It gives same amount of leak (40-+120+8+40+60) even repeated 1000 times on different files. So it can be just some global qt data, I guess it's not bug, but it triggers alarm in my test:)

dor666 09:12, 21 November 2012 (EET)

Hamishwillee - I think you are probably right!

I have heard similar things before, but I can't find a reference sorry.

hamishwillee 07:40, 22 November 2012 (EET)