Use Qt in Debian for OpenCASCADE

eryar@163.com

Recently several OpenCASCADE enthusiasts want to build my simple Qt demo about OpenCASCADE on ubuntu system, but could not compile it successfully. Because I only compiled the occQt in Windows system, do not try it in Linux system. I try to build it on Debian system, also have the same errors as follows:

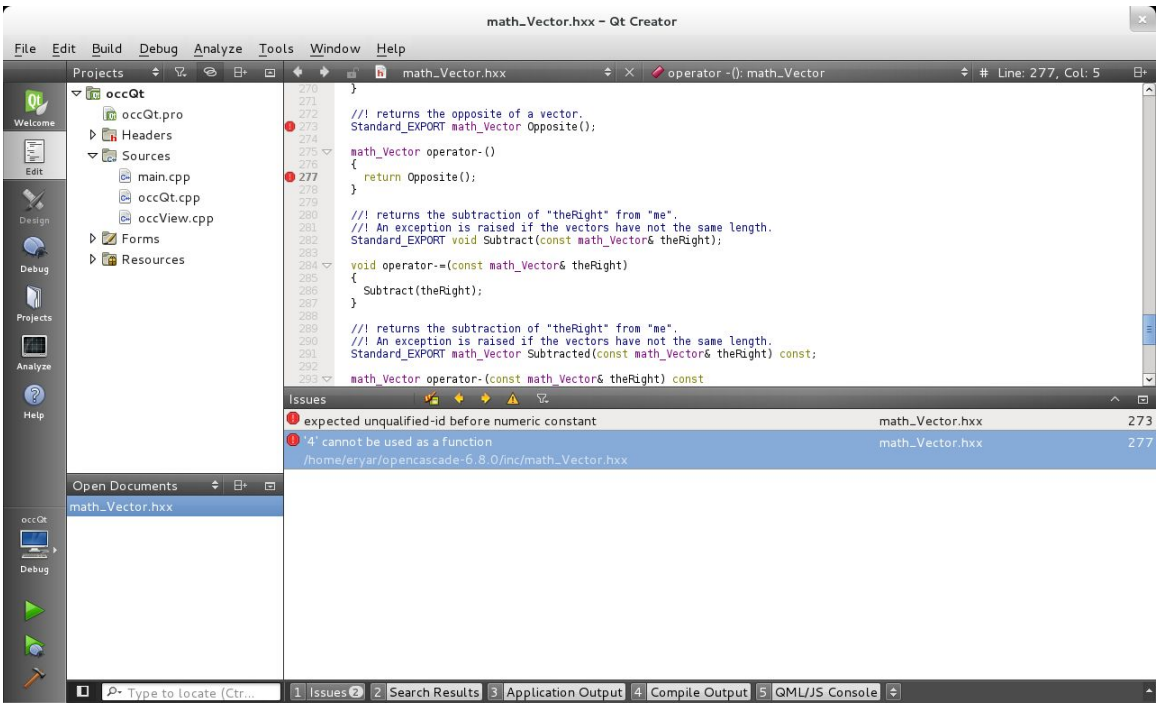

Figure 1. Compile errors of Building occQt on Debian

In order to use Qt5 in Debian7, you can input the following commands:

1. Get Qt5 on Debian:

```
sudo apt-get install qt5-default qt5-qmake qtbase5-dev-tools qtchooser
```

2. Download the newest version of QtCreator from Qt website:

http://www.qt.io/download-open-source/#section-6

You can get the following file:

```
qt-creator-opensource-linux-x86_64-3.4.0.run
```

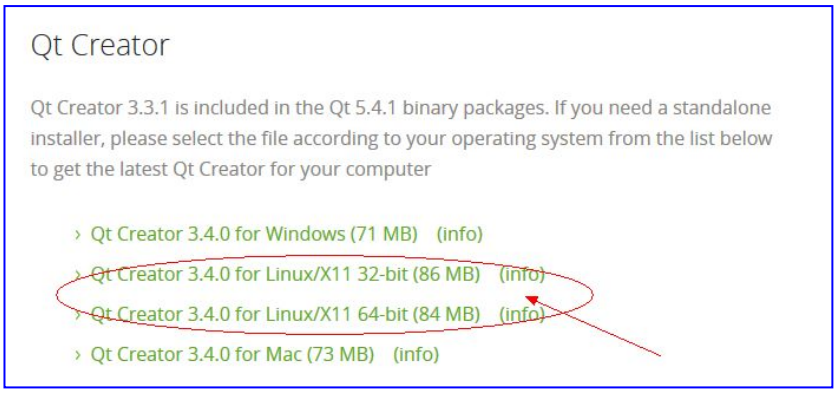

Figure 2. Download Qt Creator for Linux

3. Install QtCreator manually:

Install Qt Creator manually by the following commands:

```
chmod u+x ./qt-creator-opensource-linux-x86_64-3.4.0.run
./qt-creator-opensource-linux-x86_64-3.4.0.run
```

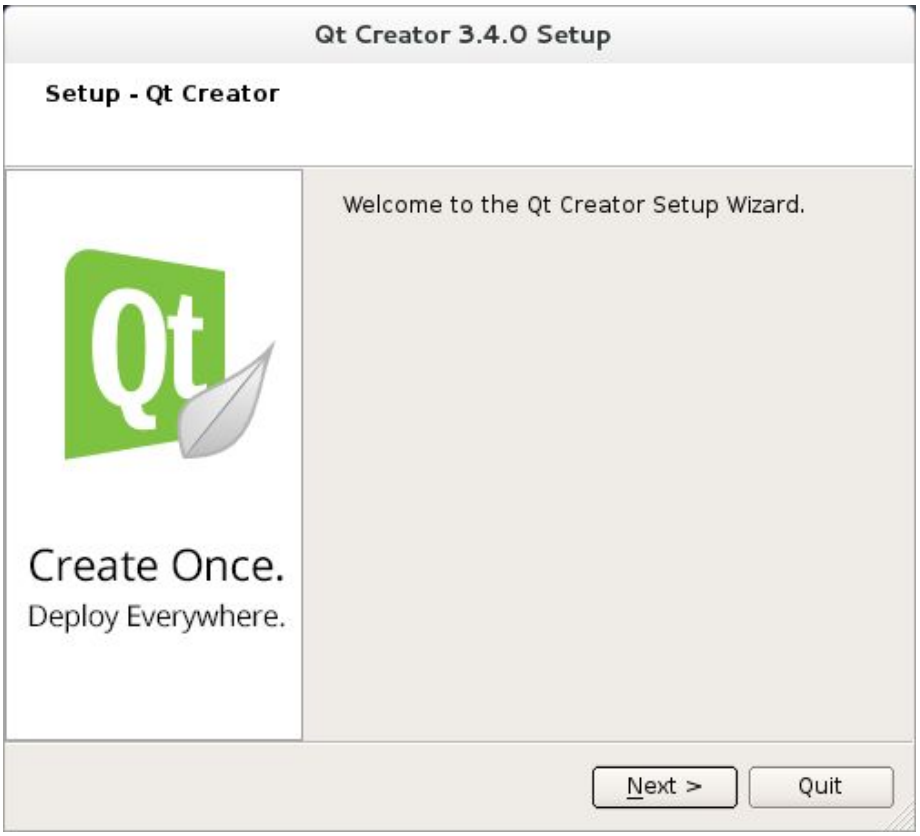

Figure 3. Qt Creator Setup

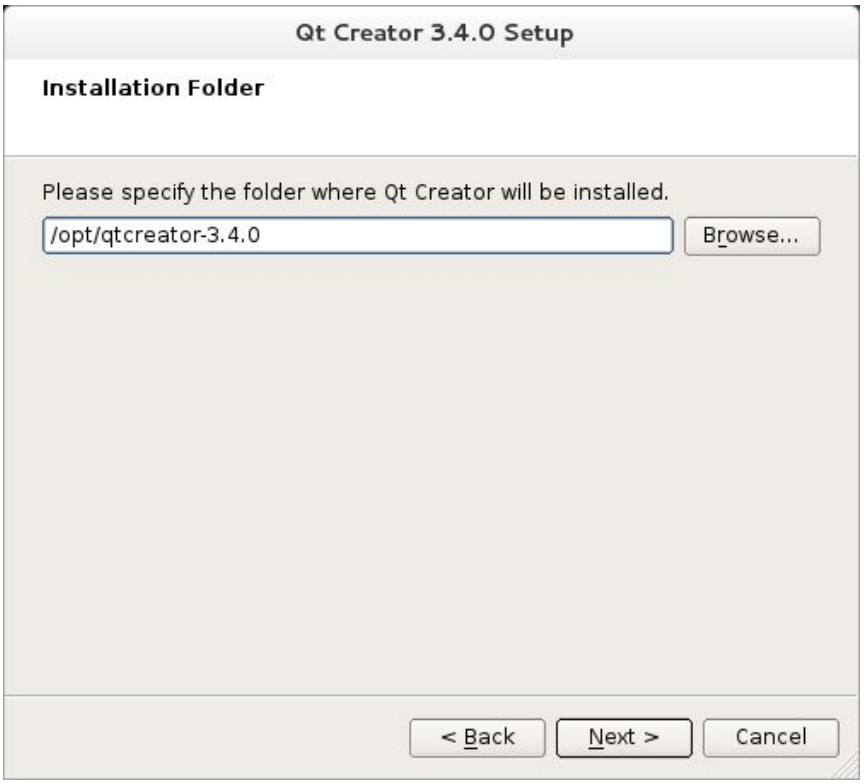

Figure 4. Qt Creator Setup

4. It is succeed When the Qt Creator Icon appears in the Applications.

Figure 5. Qt Creator in Applications

5. I tried the math_Vector, it runs correctly, the code list as follows:

```
#include <math_Vector.hxx>

void TestVector(void)
{
    math_Vector aVector(1, 3);

    aVector.Init(1.0);
    aVector.Dump(std::cout);

    aVector = -aVector;
    aVector.Dump(std::cout);

    aVector = aVector.Opposite();
    aVector.Dump(std::cout);

}

int main()
{
    TestVector();

    return 0;
}
```

The configuration of the test project as follows:

```
TEMPLATE = app
CONFIG += console
CONFIG -= app_bundle
CONFIG -= qt

SOURCES += main.cpp

include(deployment.pri)
qtcAddDeployment()

INCLUDEPATH += /home/eryar/opencascade-6.8.0/inc

DEPENDPATH += /home/eryar/opencascade-6.8.0
```

```
LIBS += -L/home/eryar/opencascade-6.8.0/lib/ -lTKernel -lTKMath
```

The result shows:

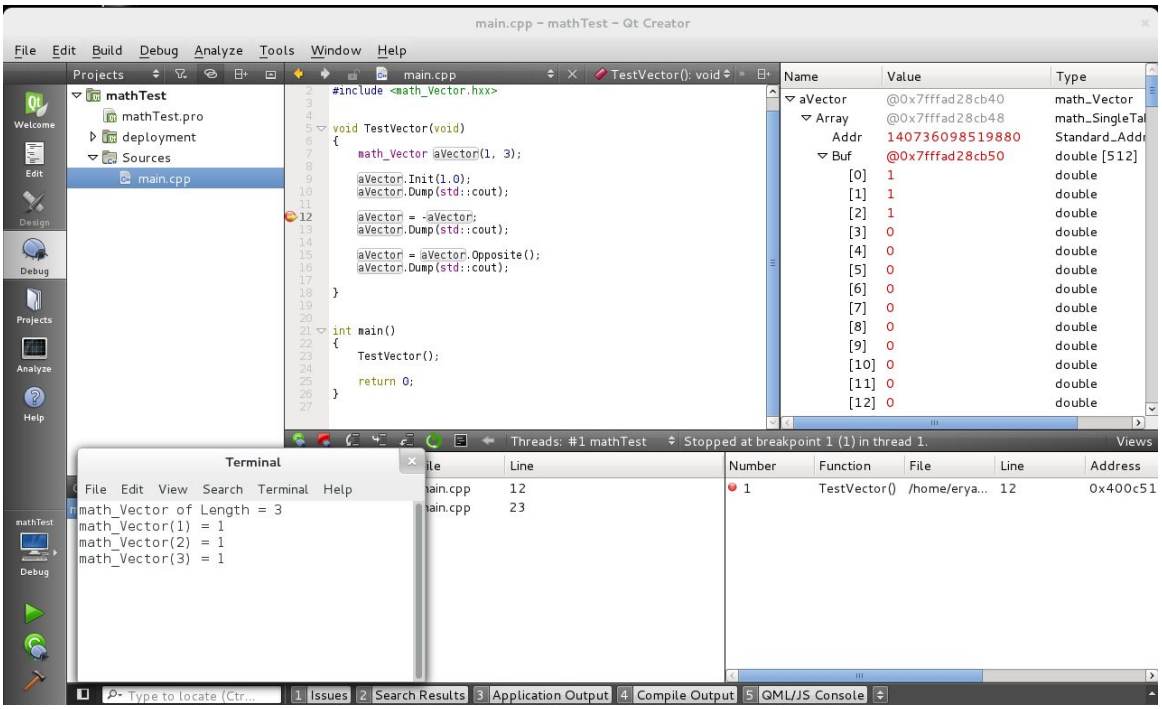

Figure 6. Test math_Vector in Qt on Debian

It can compile and run correctly, the compile error in occQt do not appear in the test program. you can also debug the code in Qt Creator. So use Qt Creator to program on Linux is very convenient.