

Linux System Setup

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1. Introduction

For developing iMEDgine you need to install several libraries:

QT 4, latest stable version from <http://www.trolltech.com/> ITK, latest stable version from <http://www.itk.org/> Coin, latest stable version from <http://www.coin3d.org/lib/coin> SoQT?, cvs version, see below or <http://www.coin3d.org/lib/soqt/cvs> SimVoleon?, latest stable version from <http://www.coin3d.org/lib/simvoleon>

2. QT

Use your package management system or install it manually

Take care that you have OpenGL Support enabled, usually you will need a libgl-mesa-dev and the xlibs-dev package

3. CMake

Use the latest CMake from the website as it is intensively developed at the moment.

4. ITK

Download and extract it, then run

```
ccmake .
```

in the respective directory and disable BUILD_EXAMPLES and BUILD_TESTING. This greatly reduces needed space on your harddisk and compile time.

Then run

```
cmake .  
make  
make install
```

5. Coin

When installing Coin don't forget to make it threadsafe:

```
./configure --enable-threadsaf  
make  
make install
```

6. SoQT

As of July 31 2006 there was no stable version of SoQT released that is able to work with QT 4. Therefore it is necessary to use the following cvs snapshot: SoQt-20060322.tar.gz

Before compiling check the QTDIR environment variable. It should point to your qt4 location, for example /usr/lib/qt4/ To do so (temporaly) execute:

```
QTDIR='/usr/lib/qt4/'  
export QTDIR
```

Furthermore SoQT expects that the include and lib directories are subdirectories of QTDIR, which is not always the case with qt4. Change into QTDIR and create a softlink to the actual include and lib paths. An example:

```
ln -s /usr/include/qt4/ include  
ln -s /usr/lib/qt4/ lib  
  
./configure  
make  
make install
```

7. SimVoleon

To install SimVoleon simply execute:

```
./configure  
make  
make install
```