

AmapSim Installation under Linux

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Every commands has to be run into a terminal window. If you go into trouble while installing send a mail to barczi@cirad.fr

1. Simulation Kernel installation

1. *fetching the repository*

- Ask for a user account to the administrators of the repository (coligny@cirad.fr or philippe.verley@ird.fr)
- create a directory named amapsim and go into it.
- svn checkout <https://amap-dev.cirad.fr/svn/amapsim/> thevitisnew --username youraccountname
passwd : yourpasswd

2. *execution configuration*

- edit file `~/.bashrc`
 - add two lines at end of the file :
- ```
export PATH=$HOME/amapsim/bin:$PATH
```

```
export LD_LIBRARY_PATH=$HOME/amapsim/bin:$LD_LIBRARY_PATH
- save file
- run source .bashrc
```

### ***3. preparing for compiling***

- create a directory named bin into amapsim
- go into thevitisnew directory
- install all needed libraries and tools (sudo apt-get install autoconf g++ libxml++2.6-dev libtool)
- run autoconf
- run automake

You may have to reconfigure your tools using autoreconf, libtoolize, aclocal and other updating tools. In case of errors, just follow recommendations that are given in the terminal.

- run ./configure --prefix=/home/youruser/amapsim/bin --bindir=/home/youruser/amapsim/bin --libdir=/home/youruser/amapsim/bin
- run make
- run make install

## **2. Data Installation**

### ***1. fetching the repository***

- go into amapsim directory
- svn checkout <https://amap-dev.cirad.fr/svn/amapsim>/AmapSimEnv --username youraccountname  
passwd : yourpasswd

## **3. qt3 Installation**

### ***1. configuring qt3 environment***

- edit file ~/.bashrc
  - add two lines at end of the file :
- ```
export QTDIR=$HOME/amapsim/qt-x11-free-3.3.8b
```

```
export QMAKESPEC=$QTDIR/mkspecs/linux-g++-64/  
or export QMAKESPEC=$QTDIR/mkspecs/linux-g++-32 in case of 32bits OS  
- and patch the two next lines  
export PATH=$QTDIR/bin:$HOME/amapsim/bin.:$PATH  
export LD_LIBRARY_PATH=$QTDIR/lib:$HOME/amapsim/bin:$LD_LIBRARY_PATH  
- save file  
- run source .bashrc
```

2. fetching the repository

- install libXmu (sudo apt-get install libxmu-dev)
- go into amapsim directory
- svn checkout <https://amap-dev.cirad.fr/svn/amapsim/qt-x11-free-3.3.8b> --username youraccountname passwd : yourpasswd

3. compiling

- go to qt-x11-free-3.3.8b directory
 - run ./configure -platform linux-g++-64 -shared -thread -enable-opengl -prefix /usr/share/qt3 -headerdir /usr/include/qt3
- N.B. for linux 32bits, remove -64 extension
- run make

4. Tools Installation

In order to install the tools, you will have to previously compile and install qt3 (see qt3 chapter)

1. fetching the repository

- go into amapsim directory
- svn checkout <https://amap-dev.cirad.fr/svn/amapsim/AmapSimEdit> --username youraccountname passwd : yourpasswd
- svn checkout <https://amap-dev.cirad.fr/svn/amapsim/glance> --username youraccountname

passwd : yourpasswd

- svn checkout <https://amap-dev.cirad.fr/svn/amapsim/prg> --username youraccountname
passwd : yourpasswd

2. compiling

- install libglut (sudo apt-get install freeglut3-dev)
- go into prg directory, edit newprg.pro file, adapt DESTDIR variable to point to ~/amapsim/bin
- run qmake newprg.pro
- run make
- go into glance directory, edit glance.pro file, adapt DESTDIR variable to point to ~/amapsim/bin
- run qmake glance.pro
- go into libQGLViewer-1.2.6 directory
- run qmake libQGLViewer-1.2.6.pro
- run make
- go back to glance directory and run make
- go to AmapSimEdit directory, edit AmapSimEdit.pro, adapt DESTDIR and LIBPATH variables to point to ~/amapsim/bin
- run qmake AmapSimEdit.pro
- go to libQGLViewer-1.2.6 directory
- run qmake libQGLViewer-1.2.6.pro
- run make
- go to edit directory
- run qmake edit.pro
- run make
- go back to AmapSimEdit directory and run make