

# Percolator in Eclipse (Ubuntu)

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## Abstract

This tutorial will guide you through the necessary steps to get the Percolator source form the repositories, build it and import it into Eclipse. Debugging and version control (Git) will be possible from within Eclipse. I am running Ubuntu 10.04 LTS; Percolator is currently in its 1.14 version. Together with this tutorial:

- `build_ubuntu_eclipse.sh`

## Get Eclipse

The latest to date Eclipse version for c++ developers can be downloaded at <http://www.eclipse.org/downloads/packages/eclipse-ide-cc-developers/heliosr>. Download the appropriate version and run the executable `./eclipse`. No installation is needed.

## Build Percolator as an Eclipse Project

We will now get Percolator from the repositories, ensure that the right libraries are installed and build it as a valid, debuggable Eclipse Project. This is done by invoking `cmake` with a special `-G` option that creates `.project` and `.cproject` files and the `-D CMAKE_BUILD_TYPE` option set to “Debug”.

- customize the script `build_ubuntu_eclipse.sh` by assigning values to the variables under the section “USER MUST SET THESE VARIABLES”.
- run the script from any location. You might be asked to insert the superuser password. The script comprises of four steps and will hopefully terminate with the following message: “SUCCESS! `buildDir` contains a valid Eclipse Percolator project.”, where `buildDir` is some legal directory in your system.
- In Eclipse: File → Import → General → Existing Project into Workspace. In “Select root directory” put `buildDir`. Keep “Copy projects into workspace” unchecked and click “Finish”.

The Project will be build automatically (no manual invocation of `make` and `makeinstall`). You can monitor the build process from Eclipse’s console. When this terminates the executables will be available in the directory “Binaries” of the “Project Explorer”.

For details on the creation of `.project` files with `cmake`, please refer to [http://www.vtk.org/Wiki/Eclipse\\_CDT4\\_Generator](http://www.vtk.org/Wiki/Eclipse_CDT4_Generator).

## Version control in Eclipse

TODO

([http://wiki.eclipse.org/EGit/User\\_Guide](http://wiki.eclipse.org/EGit/User_Guide))

Install EGit plugin (<http://www.eclipse.org/egit/download/>)

help -> install new software -> work with: "<http://download.eclipse.org/egit/updates>"

Set up repository

File -> Import -> Git -> clone

URI: `git+ssh://git@github.com/percolator/percolator.git`

(leave the rest of the forms as they are)