

# ***Installing pre requisites and testing***

1. Install Java
  - a. Open a terminal
  - b. `sudo apt-get install openjdk*` (7 or 8 – 9 DOES NOT WORK)
  - c. Test: `java -version`
  - d. Test: `javac -version`
2. Install JaCaMo
  - a. Download JaCaMo <https://sourceforge.net/projects/jacamo/files/version-0/jacamo-0.7-SNAPSHOT.zip/download>
  - b. Extract into jacamo folder at your home directory
3. Test JaCaMo installation with the house building example
  - a. Open a terminal
  - b. `cd` to `jacamo/scripts`
  - c. `./jacamo ../examples/house-building/house.jcm`
4. Install Allegro CL LISP interpreter
  - a. If you don't have bunzip2 installed: <http://franz.com/cgi-bin/bunzip2?file=acl100express/linux86/bunzip2>
    - i. `chmod 755 bunzip2`
  - b. Download Allegro <http://franz.com/ftp/pub/acl100express/linux86/acl100express-linux-x86.bz2>
  - c. `bunzip2 < acl100express-linux-x86.bz2 | tar xf -`
  - d. Move the `acl100express` folder to your home folder
  - e. Try to run: `./alisp` (If it works skip the next step)
  - f. Special steps are required for the Allegro CL Free Express Edition to work on 64-bit Ubuntu 13 and later.
    - i. `sudo dpkg --add-architecture i386`  
`sudo apt-get update`  
`sudo apt-get install libc6:i386`  
`sudo apt-get install libgtk2.0-0:i386`
5. Install SHOP2 planner
  - a. Download <https://sourceforge.net/projects/shop/files/latest/download>
  - b. Extract into shop2 folder at your home directory
6. Test SHOP2 with a simple problem
  - a. `cd` to `aamas-experiments`
  - b. Open `prepare.sh` in a text editor
  - a. Replace "myusername" with your username (the one that shows on `/home/HERE`) – DO NOT CHANGE THE OTHER TWO "username" STRINGS
  - b. Run (this might take a few minutes): `./prepare.sh`
  - c. Run the test script: `./test-script.cl`
  - d. Move `acl/floods` to your main `acl` folder (should be at `/home/username/acl100express/`) – (`/home/username/acl100express/floods`)
  - e. Move the rest of the folders in `aamas-experiments/` to your home folder (`/home/username/`)

# ***Running the experiments***

1. DOMAP
  - a. Open a terminal and cd to /home/username/floods
  - b. Run p01-1.sh .. p10-5.sh
  - c. I advise running one script at a time, since in my experiments JaCaMo would sometimes bug out and not create the artifacts in time. This tended to happen if too many JaCaMo instances were called with no (or small) intervals in between.
2. SIW
  - a. Try to do: sudo apt-get install libboost-python1.54-dev
  - b. If it can't find the package, you will have to manually download it and install
  - c. Or, this is how I did it: open as sudo in a text editor /etc/apt/sources.list
  - d. Add the line: deb http://cz.archive.ubuntu.com/ubuntu/ trusty universe
  - e. Run: sudo apt-get update
  - f. Try step a. again. If it still can't find the lib then add a trusty line for each uncommented distribution line (copy each line from your distribution, paste in the end, and replace all the names of your distribution with trusty). Go back to step e.
  - g. If there are any conflicts try using aptitude to install the lib
  - h. cd to /home/username/planners/
  - i. Run (WARNING, THIS MAY TAKE A FEW HOURS): ./script-siw.sh
3. ADP
  - a. cd to /home/username/planners/
  - b. Run: ./script-adp.sh
4. PMR
  - a. cd to /home/username/planners/
  - b. Run: ./script-pmr.sh
5. CMAP
  - a. cd to /home/username/planners/
  - b. Run: ./script-cmap.sh

*If you have any questions you can contact me at: [rafael\\_caue@hotmail.com](mailto:rafael_caue@hotmail.com)*