

Setting up ReqSpec and AGREE.

Note: You **MUST** have Java 8 installed on your machine for the below to work.

- 1) Download OSATE 2.1.1. (<http://www.aadl.info/aadl/osate/stable/2.1.1/products/>)
- 2) Download Yices 1. (<http://yices.csl.sri.com/old/download-yices1.shtml>)
- 3) Download JKind. (<https://github.com/agacek/jkind/releases>)
- 4) Download the latest version of AGREE. (<https://github.com/smaccm/smaccm/releases>)
- 5) Download the latest version of ReqSpec. (<http://www.cs.clemson.edu/~johnmc/courses/cpsc873/resources/download.zip>)
- 6) Extract the contents of the OSATE download to a path of your choice. I used the home folder on my linux machine, ~/.
- 7) Extract the contents of the Yices download to a path of your choice. I used the home folder on my linux machine, ~/.
- 8) Extract the contents of the JKind download to a path of your choice. I used the home folder on my linux machine, ~/.
- 9) Extract the contents of the AGREE download.
 - 1) Open OSATE.
 - 2) Go to Help > Installation Details.
 - 3) Select the current version of AGREE then Uninstall.
 - 4) Close OSATE.
 - 5) Copy the extracted jars to the plugins folder in the osate directory.
- 10) Modify your path to include JKIND_HOME and YICES_HOME. This can be done by adding the following lines to your ~/.bashrc on linux, ~/.bash_profile on mac:

```
export YICES_HOME=<path to yices directory>
export JKIND_HOME=<path to jkind directory>
export PATH=$PATH:$YICES_HOME/bin:$JKIND_HOME
```

On windows, you will need to add the equivalent to the system PATH variable in the environment variables editor.

- 11) Check the installation by opening up a copy of terminal or command prompt. The command “yices –version” should return a number as should “jkind -version”.
- 12) Using the same terminal / command prompt window, change to the osate directory. Issue the command to open osate, generally ./osate. You will need to start OSATE from the command prompt or terminal unless you make the environment variables from step 10 system-level environment variables.
- 13) Go to the Preferences pane, and under AGREE > Analysis, use the “Check if Available” button to ensure that everything is setup and configured correctly. A process hasn’t exited error is acceptable.
- 14) Underneath the osate2 folder create a dropins directory with the structure below
 - + dropins
 - + reqspec
- 15) Copy the jars and folders from the ReqSpec download into the reqspec folder.
- 16) Restart OSATE and go to the Preferences pane. Under ALISSA > ReqSpec > Syntax Coloring, check to make sure the menu is accessible. As long as the menu loads, ReqSpec has been installed.