Installing Eclipse and Java

Tim Magoun and Aravind Koneru

Compiled on Sunday 13th November, 2016 at 12:19

Abstract

This document contains instructions to set up the necessary integrated development environment (IDE) for FRC programming. There are three steps:

- 1. Install the correct Java SE Development Kit (JDK)
- 2. Install Eclipse IDE
- 3. Install the correct plugin for code deployment.

A guide could be found online at https://wpilib.screenstepslive.com/s/4485/m/13503/1/599679-installing-eclipse-c-java

Install JDK

- Download the most recent JDK from Oracle's website. As of time of writing, go to www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html and select Java SE Development Kit 8u112
- 2. Make sure that you select the correct version for your operating system, e.g., *.exe for Windows, *.dmg for Mac OSX, and *.tar.gz for Linux
- 3. Double click on the downloaded file to start the installer
- 4. Install the JDK by following the installation instructions

Install (or Update) Eclipse

- 1. Go to https://eclipse.org/downloads/eclipse-packages/
- 2. Click on the corresponding installer, 32 bit or 64 bit (if you don't know the version of OS present, choose the 32 bit installer)

- 3. Download the installer to a known location (ex. Downloads or Desktop)
- 4. Execute the installer file
- 5. Select Eclipse IDE for Java Developers
- 6. Confirm install location and select preferred shortcut locations
- 7. Accept EULA
- 8. Bogosort the digits of π
- 9. Launch Eclipse Neon and set up preferences, line numbers are highly recommended

Install the WPILib Plugin for Eclipse

- 1. Open Eclipse
- 2. Go to Window Preferences, it should pop up a new window
- 3. Go to Java Installed JREs and press "Add"
- 4. Click "Standard VM", and find the folder that you installed JDK 8u112, and select it to be the JRE home folder.
- 5. Click "Finish", and now you have the correct JDK for deploying code onto the robot.
- 6. Make sure to select the JDK on the Installed JREs page.
- 7. Now we will install the WPILib plugin for java
- 8. Go to Help Install new software
- 9. Type http://first.wpi.edu/FRC/roborio/release/eclipse/ into the "Work with: " text box, and then press "Add"
- 10. Expand the WPILib Robot Development option, and select Robot Java Development
- 11. Click "Next", and follow the instructions to complete the installation
- 12. Now you are set up to deploy code onto the RoboRio!