

Xilinx ISE Tutorial

EEL 4930/5934 – Reconfigurable Computing

Objective:

In this lab, you will install Xilinx ISE and perform tutorials to become familiar with the tool. Nothing is turned in for this lab, but it is essential that you familiarize yourself with ISE, which you will be using for the rest of the semester.

Part 1 – Install ISE

See the link on the lab website. You can install the latest version if you want, but be aware that later on in the semester, you will be working with code that only works with versions 10.1 and earlier. So, at the very least, install 10.1. If you want a newer version, install both. Some of the previous versions had problems with 64-bit operating systems, but I think that was solved with 10. If you can't get version 10 to work, let me know and I'll find another solution.

Part 2 – ISE Tutorial

Read the ISE tutorials linked off the lab website. Note that the detailed tutorial is very long. You do not need to go through the entire tutorial. As long as you are reasonably comfortable with the features of ISE, you will be fine. I will be demonstrating much of the functionality during class.

Part 3 – VHDL Tutorial

Start reading the VHDL tutorial at the bottom of the class website ("My Tutorial"). I encourage you to read the entire tutorial, but at the very least read up to the controllers+datapaths section, which will be required for the first few labs.