Lab 4
Due Feb 14
You will implement a datapath with at least two pipeline stages. We’ll discuss pipelining this week in 141.

Plan carefully and completely
Follow the coding conventions.

Suggested plan of attack:
• Design single-cycle datapath first. (just like we did in 141)
• Then add a pipeline register.
Design Review

• You must schedule a design review with another team.
• They will help you find errors in your design.
• Results of the design review are part of the write up.
Groups

• You can constitute your groups.
• Choose one of your ISAs.
Useful Debugging Trick

- In iSim you can browse through your design to look at the values on any of the signals.
- Drag them into the waveform viewer, and re-run the simulation.
The Rest of the Quarter

• The vast majority of students complete the project in 141L
• While the project is challenging, it is mostly an engineering task.
  • The goal is that you go through the engineering process
  • We encourage you to help each other out (short of sharing code) and to ask us (myself and the TAs) for the help.
  • We help you out on any aspect of the project you’re having trouble with.

• To succeed:
  • Get started early
  • Ask lots of questions.
  • Following the coding conventions.

• When students don’t succeed, it is almost always because they left it till the last minute.