

HW7 Answer Keys/Tips

Q1

Submissions are checked automatically.

We can find most signal values in each stage from the instruction being executed in the stage. It is similar to what we did on single-cycle processors. A few signals are from other stages. Check the diagram.

To find out the values read from the register file, we can run the instructions in RARS and check manually. The only value we need to calculate ourselves is the ALU result in load/store/branch instructions. Think about the operation the ALU performs for those instructions.

Q2-3

Study lecture slides 3.4. There are examples, common mistakes and tips at the end of the file.