

Jinhao Sheng WORK LOG

MILESTONE 1 WORK

Monday, October 5, 2020

Met with team[120 min]

We decided to build a stack based processor. We created a Google doc to begin our design document. We then decide to have two stacks and no registers and implement two types of instructions.

Tuesday, October 6, 2020

Design procedure call convention[30 min]

Met with team[120 min]

We drafted out example assembly programs like relprime and other fractions. We also wrote the machine code for each example programs.

M2 task assignment:

- 1st meeting: break instructions into small steps and move data from one register to another, determine single-cycle or multi-cycle
- Luke & Austin: RTL Description of each instruction\
Jinhao & Yiju : A list of generic components specifications needed for RTL
- 2nd meeting: debug and test the processor through Xilinx ISE and fix existed problems