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ECEM116C Project 1 – Questions

- 1) The total number of instructions for the test program including zero instructions is 22 instructions. This included 17 instructions within test.txt and 5 zero instructions afterward fetched in order to clear the pipeline and stop the CPU.
- 2) The test.txt file has a total of 7 r-type instructions. These include 6 adds and 1 or instruction.
- 3) The IPC of test.txt running on my pipelined processor simulation is 0.773.

$$\text{IPC} = (\text{total instructions finished}) / \text{total number of cycles} = 17 / 22 = 0.773$$