Computer Architecture Project Report

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# Running the Executable

## System Requirements

* Windows
* Visual Studios

## Compiling

This code can be run in the Visual Studios environment, making compiling as simple as running the code.

## Input

The input file should be a text file structured similar to:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | # of rs | Cycles in EX | Cycles in Mem | # of FUs |
| Integer adder | 2 | 1 |  | 1 |
| FP adder | 3 | 3 |  | 1 |
| FP multiplier | 2 | 20 |  | 1 |
| Load/store unit | 3 | 1 | 4 | 1 |

ROB entries = 128

R1=10, R2=20, F2=30.1

Mem[4]=1, Mem[8]=2, Mem[12]=3.4

Add.d F1, F2, F3

Ld F4, 8(R1)

Bne R2, R3, -3

Explicit examples can be viewed in the bench mark section.

## Output

The output of the program will be displayed on the console. There are two ways to view the output. The final output of the instructions can be viewed or the output of each clock cycle can be viewed. Lines 499 and 500 can

# Test Benchmarks

## No Dependencies

## Dependencies

## Forwarding

## Structure Hazards

## Loop

# Responsibilities

# Appendix