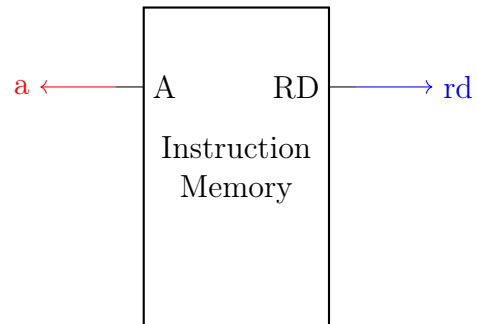


# RISC-V Processor Circuit*TikZ* Library

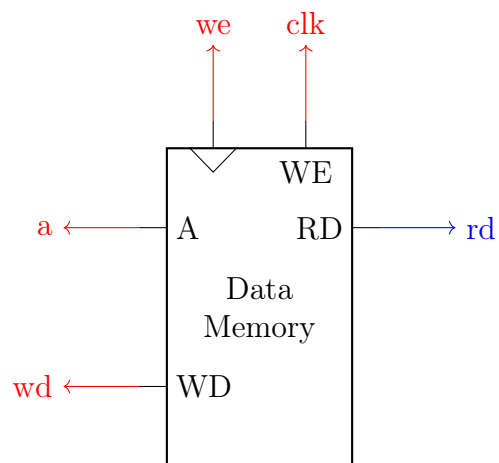
March 10, 2025

# 1 Components

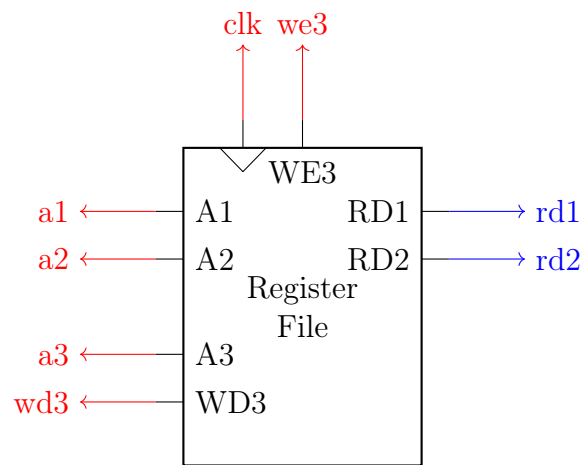
## 1.1 Instruction Memory



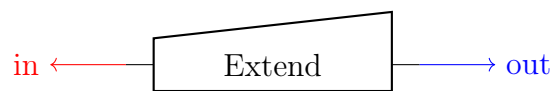
## 1.2 Data Memory



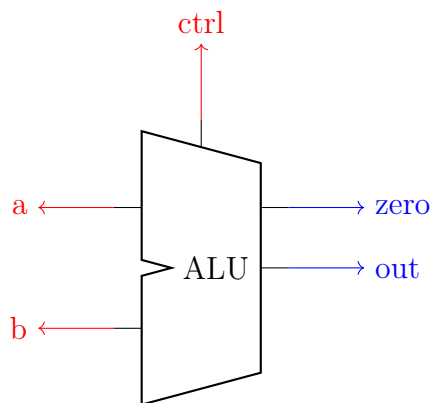
### 1.3 Register File



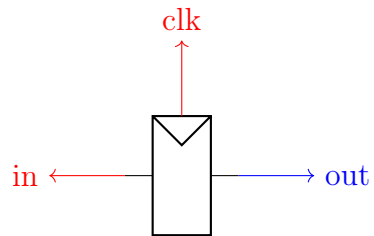
### 1.4 Extend Unit



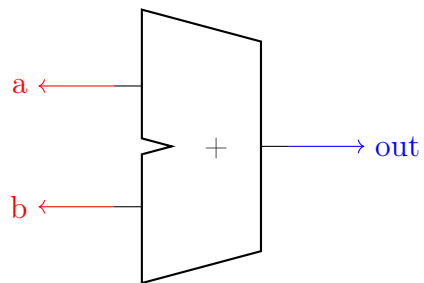
### 1.5 Arithmetic Logic Unit



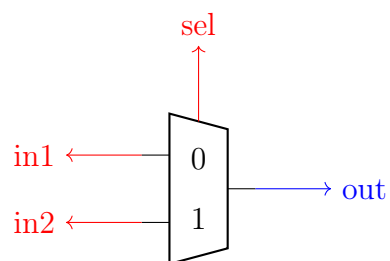
## 1.6 Register



## 1.7 Adder



## 1.8 Multiplexer



## 1.9 Single-Cycle Control Unit

