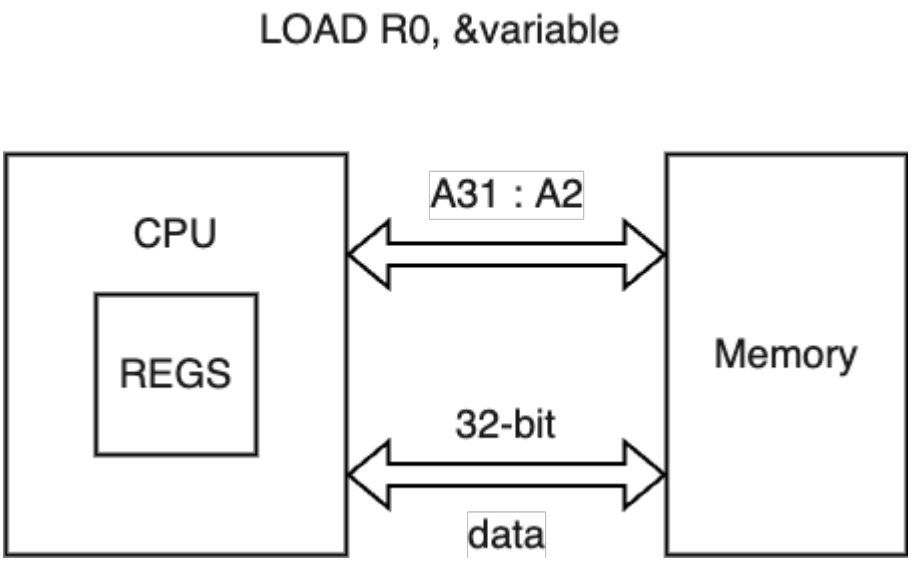
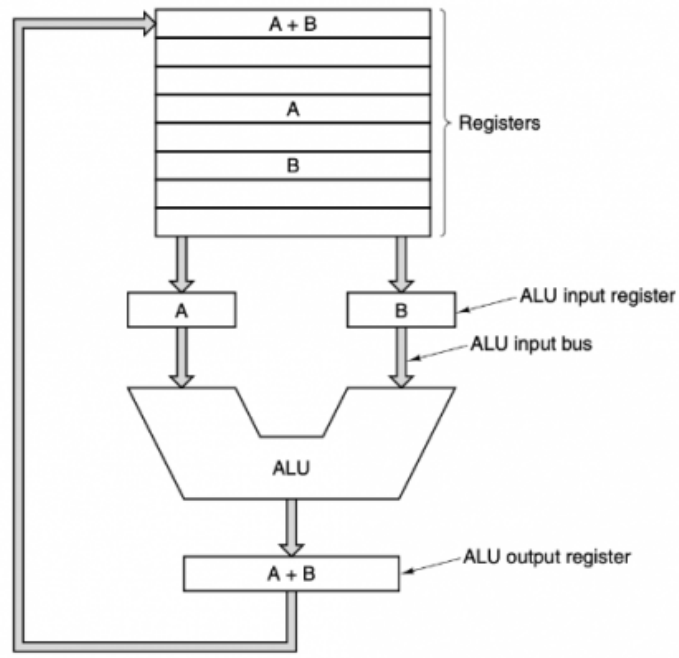
CPU Architecture Basics

Physical layout depiction of a CPU:



Note the following:

- CPU (ALU) is only connected to Registers
- Registers are connected to memory
- CPU can process an instruction to add to numbers but this operation can only be applied to registers
    - We cannot apply mathematical operations on the memory itself




```
add r0, r1, r2  # r0 = r1+r2
add C, A, B
```

Registers

- Purpose of Registers

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