

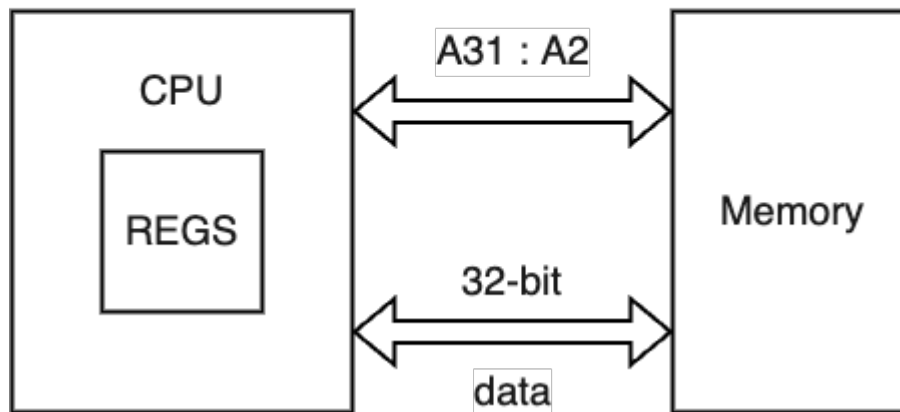
# CPU Architecture

- [CPU Architecture Basics](#)

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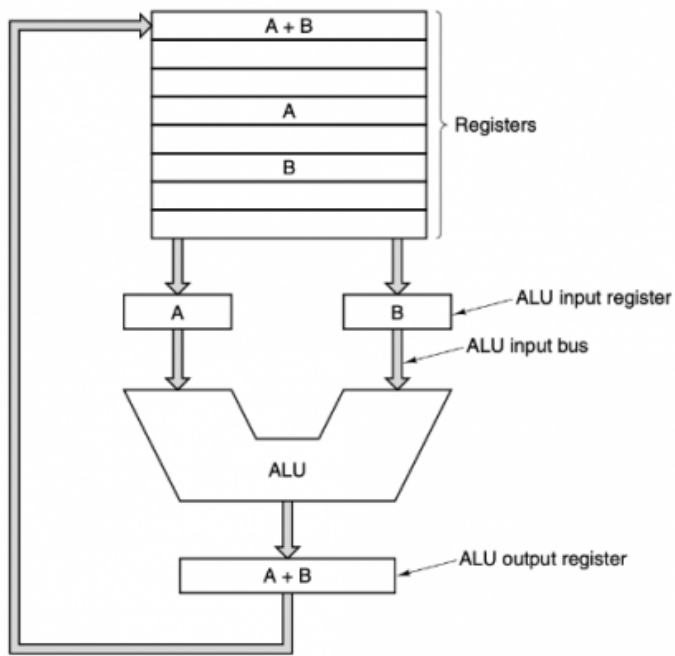
Physical layout depiction of a CPU:

LOAD R0, &variable



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