## **-xecute**

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- At most two registers or one register and one memory location are modified by an instruction.
  - Every instruction modifies the **PC**.
  - Most instructions which modify **data** (another register or memory location) have trivial control flow (PC to next instruction).
  - Control-flow instructions have a more sophisticated **control flow**, that is, they may change the PC using relative or absolute addressing.

## Execute

semantics: 64-bit unsigned addition with wrap-around semantics

- Example **ADDI**:
  - Bits in \$rd are overwritten with \$rs1 + imm.
  - PC = PC + INSTRUCTIONSIZE.
  - Used for initialization loading constants into registers.

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