

























What Hardware Is Needed? (2/2)

- ALU
 - used in Stage 3
 - something that performs all necessary functions: arithmetic, logicals, etc.
 - we'll design details later
- Miscellaneous Registers
 - In implementations with only one stage per clock cycle, registers are inserted between stages to hold intermediate data and control signals as they travels from stage to stage.
 - Note: Register is a general purpose term meaning something that stores bits. Not all registers are in the

"register file". Cal

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