







The Processing Unit Includes an ALU and a Register File The processing unit makes use of an Arithmetic Logic Unit (ALU) to handle the operations. The register file is faster but smaller than memory. The processing unit also contains a register file for temporary storage of values.	The Register File is Fast but Small The register file contains (surprise!) registers. Registers use flip-flops and share a clock with the ALU. Registers are thus • faster than SRAM, and • much faster than DRAM (usually off-chip). But usually there are only tens or a hundred registers (again for speed reasons). As you might expect, the registers in the register file are named with bits.
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A Computer Needs Methods for Input and Output





The von Neumann Model Consists of Five Parts

