

The CPU

The Central Processing Unit (CPU) controls the operations of the computer, fetches and executes instructions to allow software to run.

The Von Neumann Architecture

| Memory Address Register (MAR) | Memory Data Register (MDR) | Program Counter(PC) | Accumulator |
|---|--|---|--|
| Holds the memory location of data that needs to be accessed | Holds data that is being transferred to or from memory | Contains the address of the next instruction to be executed | Where intermediate arithmetic and logic results are stored |

Von Neumann architecture was first published by John von Neumann in 1945.

His computer architecture design consists of a **Control Unit**, **Arithmetic** and **Logic Unit (ALU)**, **Memory Unit**, **Registers** and **Inputs/Outputs**.

Von Neumann architecture is based on the stored-program computer concept, where instruction data and program data are stored in the same memory. This design is still used in most computers produced today.



By [deleted]
cheatography.com/deleted-47335/

Not published yet.
Last updated 19th November, 2017.
Page 1 of 1.

Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
<http://crosswordcheats.com>