

Why is RAM considered as volatile memory? Why is cache memory different than Ram?

- There are a total of three types of computer memory. RAM, ROM and Cache memory. RAM stands for Random access memory. RAM is also called volatile memory because the data's stored in the RAM are temporary, to store the data and information permanently ROM is used. RAM can be categorized in two types SRAM (Static RAM) and DRAM (Dynamic RAM). ROM stands for Read only memory. ROM is a non-volatile memory because the data stored in the ROM is permanent and can be used any time the user wants. Cache memory is also a volatile memory like the RAM.

The difference between RAM and Cache memory is that cache is fast memory component that stores the frequently used data by the CPU while RAM is computing device that stores data and programs currently used by the CPU. Cache is also faster and expensive than RAM. RAM is not suitable for permanent storage because it does not store data and information if there is no power. Cache memory is used to make the communication between RAM and CPU faster, so that the processing can be done faster.