

Differences between RAM, Cache and Hard Disk

Random-access memory(RAM)	Cache	Hard Disk (HDD)
RAM is a volatile memory which could store the data as long as the power is supplied.	Cache is a smaller and fast memory component in the computer. Cache is a type of RAM used in a computer (SRAM).	HDD stands for Hard Disk Drive.
The size of ram is great.	The size of cache memory is less.	The size of HDD memory is greater.
It holds programs and data that are currently executed by the CPU.	It holds frequently used data by the CPU.	HDD holds programs and data that are save forever by the CPU. (till the time the hard disk is good)
It is not fastest as compared to cache.	It is faster.	HDD is slower than any memory.
Cache memory increase the accessing speed of CPU.	RAM is faster than a hard disk, floppy disk, compact disk, or just any form of secondary storage media.	HDD has not much impact on computer's speed.
It can be internal and external both.	It is generally internal.	HDD can be internal and external both.
CPU reads Cache Memory data before reading RAM.	CPU reads RAM data after reading Cache Memory.	CPU reads HDD data after reading RAM Memory.
RAM is also called Primary Memory or Main Memory.	SRAM is also called Primary Memory or Main Memory.	HDD is also called Secondary Memory.

Data from: <https://www.geeksforgeeks.org/difference-between-ram-and-cache/>

<https://www.tutorialspoint.com/difference-between-ram-and-hdd#:~:text=RAM%20is%20used%20to%20store,data%20and%20operating%20system%20files>.