

Characteristics of Computer System

A computer is an electronic device that processes raw data into meaningful information. Its core characteristics include **speed**, **accuracy**, **diligence**, **versatility**, and massive **storage**

Speed: Computers operate at incredible speeds, processing millions to billions of instructions per second. Speeds are measured in micro- or nanoseconds, often denoted in Gigahertz (GHz) or operations per second.

Accuracy: They execute complex mathematical and logical operations with a high degree of precision. Any errors typically stem from incorrect inputs or software bugs, a concept known as "Garbage In, Garbage Out" (GIGO).

Diligence: Unlike humans, computers do not experience fatigue, boredom, or a lack of concentration. They can perform repetitive tasks for extended periods without losing consistency or making errors.

Versatility: Computers are incredibly adaptable and can perform entirely different types of work simultaneously or sequentially, from basic document processing to heavy data analysis and graphics rendering.

Storage and Memory: They can store immense volumes of data—including text, images, and video—for long periods and retrieve them almost instantaneously.

Automation: Computers can execute programmed tasks without continuous human intervention, increasing productivity across

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