

OPERATING SYSTEM

TYPES OF OPERATING SYSTEM

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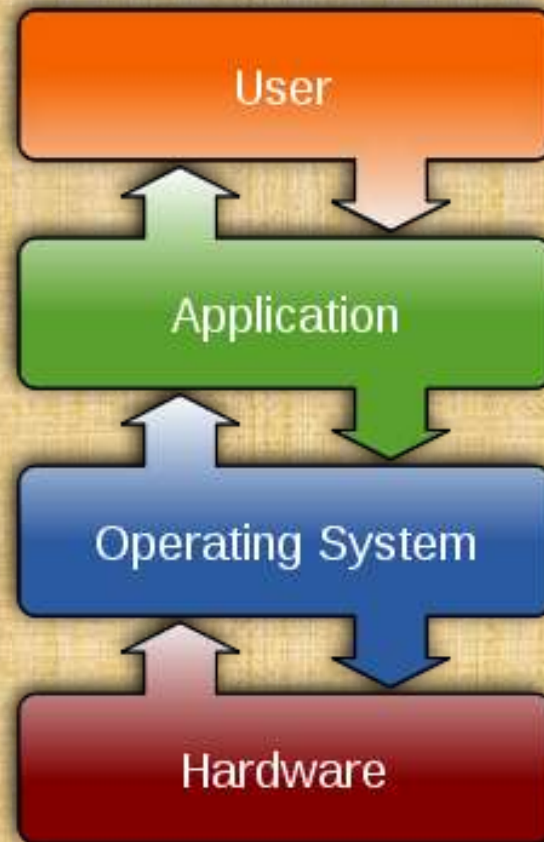
Operating Systems

Operating Systems

- The operating system is the most important program that runs on a computer.
- Operating system is an interface between computer and user.
- It is responsible for the management and coordination of activities and the sharing of the resources of the computer.

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Types of Operating System

- Real-time
- Multi-user vs. Single-user
- Multi-tasking vs. Single-tasking
- Distributed
- Embedded

Operating Systems

Types of Operating System

Real-Time

- A real-time operating system is a multitasking operating system that aims at executing real-time applications.
- Responds to input instantly.

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Types of Operating System

Multi-user vs. Single user

- A multi-user operating system allows multiple users to access a computer system concurrently.
- Time-sharing system can be classified as multi-user systems as they enable a multiple user access to a computer through the sharing of time.
- Single-user operating systems, as opposed to a multi-user operating system, are usable by a single user at a time.

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Types of Operating System

Multi-tasking vs. Single-tasking

- When a single program is allowed to run at a time, the system is grouped under a single-tasking system
- While in case the operating system allows the execution of multiple tasks at one time, it is classified as a multi-tasking operating system.

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Types of Operating System

Distributed

- A distributed operating system manages a group of independent computers and makes them appear to be a single computer.
- The development of networked computers that could be linked and communicate with each other, gave rise to distributed computing.

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Types of Operating System

Embedded

- Embedded operating systems are designed to be used in embedded computer systems.
- They are designed to operate on small machines like PDAs with less autonomy.
- They are able to operate with a limited number of resources.

Operating Systems

Major Functions of Operating System

- Resource management
- Data management
- Job management
- Standard means of communication between User and Computer

THANK YOU