

Module 47: Operating Systems: Basic Concepts (II)

What was the role of a computer operator in early multiuser, time-sharing operating systems?

- a) Directly communicating with the computer
- b) Storing common programs in mass storage devices
- c) Resolving problems for users
- d) Submitting requests on behalf of users

Correct Answer: d) Submitting requests on behalf of users

In personal computers today, who typically assumes the responsibilities of computer operation?

- a) Computer operator
- b) System administrator
- c) Mass storage manager
- d) Software developer

Correct Answer: b) System administrator

What has led to the development of operating systems that provide time-sharing/multitasking capabilities?

- a) The use of graphical user interfaces
- b) The availability of mass storage devices
- c) The use of multiprocessor machines
- d) The adoption of cloud computing

Correct Answer: c) The use of multiprocessor machines

What are some challenges faced by operating systems in multiprocessor environments?

- a) Load balancing and scaling

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- b) Graphics rendering and animation
- c) Disk fragmentation and file management
- d) Network security and data encryption

Correct Answer: a) Load balancing and scaling

What do you call computer systems dedicated to specific tasks such as medical devices or cell phones?

- a) Personal computers
- b) Mainframes
- c) Embedded systems
- d) Supercomputers

Correct Answer: c) Embedded systems

Which operating system was used in the Mars Exploration Rovers named Spirit and Opportunity?

- a) VxWORKS
- b) Windows CE
- c) Linux
- d) macOS

Correct Answer: a) VxWORKS

What is the primary purpose of utility software in the system software category?

- a) Execute application programs
- b) Customize the operating system
- c) Manage the computer's hardware
- d) Handle network communication

Correct Answer: b) Customize the operating system

In the context of operating systems, what does GUI stand for?

- a) Graphical User Interface
- b) General Utility Interface

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- c) Global User Integration
- d) Generic User Input

Correct Answer: a) Graphical User Interface

What is the distinction between a user interface and the internal parts of an operating system?

- a) The user interface handles hardware interactions.
- b) The internal parts manage utility software.
- c) The user interface communicates with users, while the internal parts control the system.
- d) The internal parts are responsible for file management.

Correct Answer: c) The user interface communicates with users, while the internal parts control the system.

What is the role of a window manager in a graphical user interface?

- a) Allocating memory for programs
- b) Managing network communication
- c) Creating and managing windows on the screen
- d) Controlling the file system

Correct Answer: c) Creating and managing windows on the screen

What is the internal part of an operating system called?

- a) User interface
- b) System software
- c) Utility software
- d) Kernel

Correct Answer: d) Kernel

What is the primary function of a file manager in the kernel of an operating system?

- a) Allocating memory for programs
- b) Coordinating mass storage facilities

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- c) Managing the user interface
- d) Handling network communication

Correct Answer: b) Coordinating mass storage facilities

How are files often organized within an operating system for user convenience?

- a) In stacks
- b) In tables
- c) In bundles called directories or folders
- d) In registries

Correct Answer: c) In bundles called directories or folders

What is a directory path?

- a) A list of file names
- b) A unique identifier for a file
- c) A chain of directories within directories
- d) A file's location in memory

Correct Answer: c) A chain of directories within directories

What is the purpose of a device driver in an operating system?

- a) To execute application programs
- b) To manage the user interface
- c) To communicate with peripheral devices
- d) To allocate memory for programs

Correct Answer: c) To communicate with peripheral devices

What is virtual memory in the context of an operating system?

- a) A type of flash memory
- b) A large memory space reserved for the kernel
- c) An illusion of additional memory created by paging

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d) The primary memory used by the user interface

Correct Answer: c) An illusion of additional memory created by paging

What is the primary role of the scheduler in an operating system?

a) Managing mass storage facilities

b) Allocating memory for programs

c) Determining which activities are considered for execution

d) Coordinating network communication

Correct Answer: c) Determining which activities are considered for execution

What procedure transfers the operating system from mass storage into main memory when a computer is turned on?

a) Bootstrapping

b) File management

c) Paging

d) Disk formatting

Correct Answer: a) Bootstrapping

Why is read-only memory (ROM) used in the bootstrapping process of computers?

a) To permanently store user data

b) To ensure the operating system remains secure

c) To store the boot loader for starting the operating system

d) To provide additional memory space

Correct Answer: c) To store the boot loader for starting the operating system

Why is booting from mass storage necessary for general-purpose computers?

a) To conserve energy

b) To ensure security

c) To enable firmware updates

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d) To accommodate frequent operating system updates

Correct Answer: d) To accommodate frequent operating system updates

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