

## Device Manager

- Monitors every input/output device to assure that the device is functioning properly
- Maintains a queue for each input/output device
- Controls different policies for accessing I/O devices

## File Manager

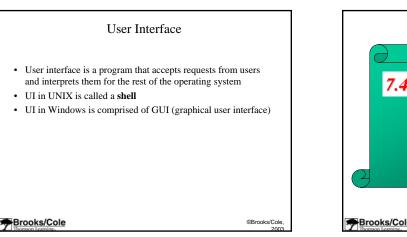
· Controls access to files

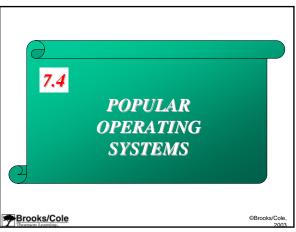
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- · Supervises the creation, deletion and modification of files
- Can control the naming of files
- Supervises the storage of files
- Responsible for archiving and backups

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# Popular Operating Systems

- Windows XP
- Windows 2000
- Windows 95/98/NT
- UNIX
- Linux
- MacOS

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Summary	
<ul> <li>An operating system facilitates the execution of software, acts as the general manager of a comp and ensures the efficient use of hardware and so resources</li> </ul>	outer system
<ul> <li>The evolution of OS has included batch operatin time-sharing, single-user, parallel and distribute</li> </ul>	
<ul> <li>The OS has the memory manager, the process n manager and the user interface</li> </ul>	nanager, device
• In monoprogramming, most of memory capacity to one single program	y is dedicated
• In multiprogramming, more than one program is the same time	s in memory at
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## Summary

- In partitioning, memory is divided into variable length sections
- In paging, memory is divided into equally sized sections called frames and the program is divided into equally sized section called pages
- The sum of the sizes of all the programs in memory is virtual memory
- A program is a nonactive set of instruction written by a programmer and stored on disk
- A job is a program that is selected for execution
- A process is a job residing in memory

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#### Summary

- A state diagram shows the relationship between a program, job and process
- The job scheduler creates a process from a job and changes a process back to a job
- The process scheduler moves a process from one state to another
- · Jobs and processes wait in queues
- The device manager controls access to I/O devices
- · The file manager controls access to files
- The user interface is software that accepts requests from processes and interprets them for the rest of OS

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• Popular OS: Windows XP, Unix, Linux, MacOS

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