

Operating Systems and Utility Programs

System Software

- All programs related to controlling the computer equipment
 - Two types
 - Operating System
 - Utility programs

Operating System

- A set of programs containing instructions that coordinate all of the activities among computer hardware

User Interfaces

- Part of the software with which you interact
 - Three Types
 - Command line
 - Menu
 - Graphic User

Capabilities of Operating Systems

- Single user (single tasking)
 - One user/One program
- Multitasking
 - One user/many programs
- Multiuser
 - Many users/single program
- Multiprocessing
 - 2 or more users/ many programs

Functions of Operating system

- Memory Management - optimize use of RAM - buffer - virtual memory (VM)
- Spooling print jobs
- Configuring Devices
- Monitoring System Performance
- Administering Security
- Managing Storage Media and Files

Functions of OS (cont)

- Start the computer
- Provide a user interface
- Establish an internet connection
- Provide file mgt. and other utilities

Popular Operating Systems

- DOS (Disk Operating System)
- Windows XP
- Windows 3.x
- Windows 95
- Windows 98
- Windows 2000
- Windows CE
- Mac OS

Operating Systems cont.

- Mac OS
- OS/2
- Unix
- Linux
- NetWare
- OS/2 Warp Client

Starting a computer

- Booting
 - Cold boot
 - Warm boot

Utility Programs

- File Viewer
- File compression utility
- Diagnostic Utility
- Disk scanner
- Disk Defragmenter
- Uninstaller
- Backup utility

Utility Programs, cont.

- Antivirus
- Screen Saver
- Search Utility
- Personal Firewall, etc.