Introduction to Computer Systems

- Components of Computer
- 1) Hard ware
- 2) Soft ware
- 3)Data
- 4)Use

Hardware System



System unit

Mouse

Hardware Components: Peripheral Devices

- Equipment added to computer to enhance its functionality
- Modify and expand the basic computer system
- Examples of peripheral devices:
 - Keyboard
 - Monitor
 - Mouse
 - Printer
 - Scanner
 - Digital Video Camera
 - Graphic Tablet
 - Joy Stick

Hardware Components: Storage Devices

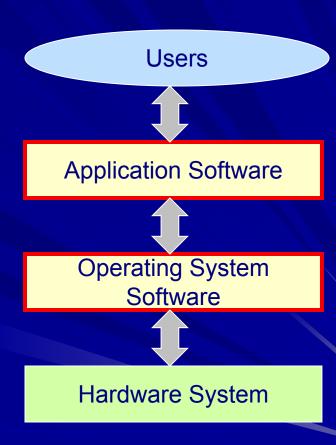
- Optical Disks
 - CD-ROM
 - CD-RW
 - DVD-ROM
- Magnetic Disks
 - Floppy disk
 - Hard disk (removable & fixed)

What is Software?

- Software is a set of computer instructions or data.
- Software receives input from the user and processes this input through the computer to produce output.
- Software directs how the computer interacts with the user.
- Software specifies how to process the user's data

Software System

- Two categories:
 - Operating system software,
 - Application software



Software System

- Operating system software, also called system software, is the master controller for all activities that take place within a computer
 - Examples of OS software:
 - Microsoft Windows
 - Unix
 - Mac OS
- Application software is a set of one or more computer programs that helps a person carry out a task
 - Examples of application software:
 - Microsoft Word
 - Internet Explorer
 - Macromedia Dreamweaver
 - Adobe Acrobat Reader

Personal Computer (PC)

- Designed to meet the computing needs of an individual
 - Desktop computers

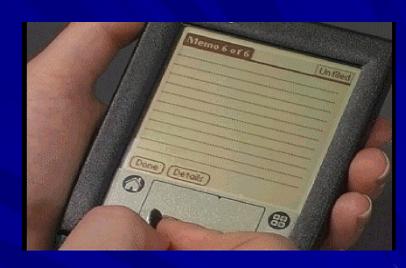


Notebook computers



Handheld Computer

- Designed to fit into a pocket, run on batteries, and be used while you are holding it
- Also called a *PDA* (Personal Digital Assistant)
 - Send and receive e-mail
 - Use maps and global positioning
 - Maintain expense account, contacts, to-do lists, memos, etc.
 - Make voice calls using cellular service



A personal digital assistant (PDA) accepts info on a touch-sensitive screen

Mainframe Computer

- It is a large and expensive computer that is capable of handling requests and passing data simultaneously to many users.
- Used by governments and large corporations to provide centralized storage and control
- Processes billions of data per second and includes many units where one operations, a second one hand communication between users searches for requests given by

Supercomputer

- It is the fastest type of computer.
- Supercomputers are very expensive and are employed for specialized applications that require immense amounts of mathematical calculations.
- It is often used for:
 - Breaking codes
 - Modeling weather systems
 - Simulating nuclear explosions
 - Research simulations
- Capable of performing over 600 billion floating-point operations per second.
- Examples: Deep Blue, PARAM 1000, Hitachi's SR2201