DHRM GOLDEN HUMANS

1006 - DMIS

MANAGEMENT INFORMATION SYSTEM







TRENDS IN COMPUTER HARDWARE

The system unit

- A. Digital data representation
- B. The System Unit
- C. Motherboard
- D. The CPU
- E. Buses
- F. Memory
- G. Ports and Connecters
- H. Improving Performance

Digital Data Representation

- **Bit** The smallest unit of data that a binary computer can recognize (a single 1 or 0)
- Byte = 8 bits
- Byte terminology used to express the size of documents and other files, programs, etc.
- Prefixes are often used to express larger quantities of bytes: kilobyte (KB), megabyte (MB), gigabyte (GB), etc.

• 1 Bit = Binary Digit	• 1024 Terabytes = 1 Petabyte
• 8 Bits = 1Byte	• 1024 Petabytes = 1 Exabyte
• 1024 Bytes = 1 Kilobyte	• 1024 Exabytes = 1 Zettabyte
• 1024 Kilobytes = 1 Megabyte	• 1024 Zettabytes = 1 Yottabyte
• 1024 Megabytes = 1 Gigabyte	• 1024 Yottabytes = 1 Brontobyte
• 1024 Gigabytes = 1 Terabyte	• 1024 Brontobytes = 1 Geopbyte

The System Unit

The main case of the computer

- Houses the processing hardware for a computer
- Also contains memory, the power supply, cooling fans, and interfaces a connect peripheral devices
- Houses the drive boys in which storage devices (hard drives, DVD drives, etc.) are located

MOTHERBOARD OR SYSTEM BOARD

The main circuit board inside the system unit

- All computer components must connect to the motherboard
- External devices (monitors, keyboards, mice, printers) typically connect by plugging into a port exposed through the exterior of the system unit

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The CPU

Circuitry and components package together and attached to the mother board

- Does the vast majority of processing for a computer?
- Different CPUs typically designed for desktop PCs, portable PCs, or servers
- Personal computers CPUs often made by Intel or AMD
- CPU clock speed: One measurement of processing speed
 - o Measured in megahertz (MHz) or gigahertz (GHz)
- Number of Cores
- Processor Architecture
- Cache Memory
- Manufacturer

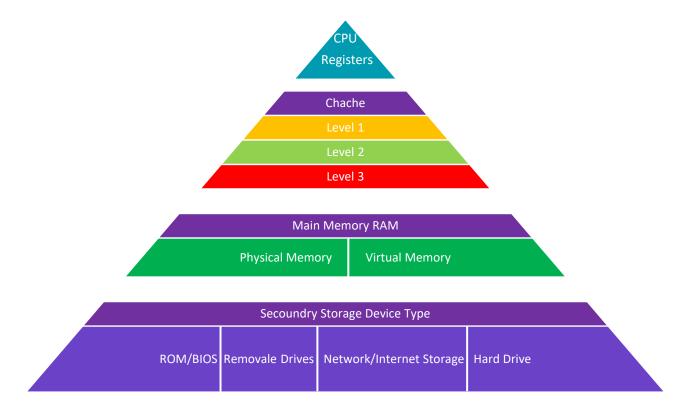
BUSES

• Connecter and plugs, and tera with any devices

COMPUTER MEMORY

• Computer memory is the storage space in computer where data is to be processed and instructions required for processing are stored.

COMPUTER MEMORY HIERARCHY



Ports and Connectors

Port: A connector on the exterior of a PC's system unit to which a device may be attached

- Serial
- Parallel
- RJ45 (Network)
- PS / 2 (Keyboard / Mouse)
- Video Out (DP, HDMI, DVI, VGA)
- RJ11 Modem / Phone

- USB (2.0, 3.x, Type C
- Fire Wire
- MIDI
- Game
- eSATA
- Audio (Mic in, Speaker out etc. and Audio Combo)

IMPROVING THE PERFOMENCE OF YOUR DEVICES

Perform system maintenance

- Scan for viruses and spyware
- Uninstall unnecessary programs properly
- Removing unnecessary from the startup list
- Delete temporary files
- Empty the recycle Bin
- Arrange files efficiently
- Consider placing large files on external storage devices or Cloud
- Remove duplicate files

STORAGE

- Storage System
- Secondary Storage Devices
- Remote Storage Systems
- Other Types of Storage Systems

STORAGE SYSTEM CHARACTERISTICS

- Can be internal, external, or remove
- Are nonvolatile
- Usually use random access; can be sequential

SECOUNDRY STORAGE DEVICES

- HDD
- SSD
- Optical Disk
- Flash Memory Systems

REMOTE STORAGE SYSTMS

- Remote storage refers to using a storage device that is not connected directly
 to the user's computer; instead, the device is accessed through a local
 network or through the Internet
- Network Storage: Using a remote storage device via a local network.
- Remote storage device accessed via the internet are often referred to as online storage or cloud storage (E.g., OneDrive, Google Drive, Drop Box etc....)
 - Growing in importance because more and more applications are webbased
 - Increasingly being used for backup purposes

OTHER TYPES OF STORAGE SYSTEMS

- Smart card; Credit card-sized piece of plastic that contains some computer circuitry (processor, memory, and storage)
 - o Store small amount of data (about 64KB or less)

- Magnetic tape consists of plastic tape coated with a magnetizable substance that represents the bits and bytes of digital data, similar to magnetic hard disks.
 - Although magnetic tape is no longer used for everyday storage applications because of its sequential-access property, it is still used today for business data archiving and backup.
 - One advantage of magnetic tape is its law cost per terabyte.

INPUT AND OUTPUT

- Input
 - o Mouse
 - Keyboard
 - o Scanner
 - Cameras
- Output
 - Monitor
 - Speaker

SOURCE DATA AUTOMATION

Capturing data electronically from a source document or entering data directly into a computer at the time and place the data is generate

HOLOGRAPHIC PROJECTION
pg. 8

WHAT IS HTML

- Standard for <u>H</u>ypertext <u>M</u>arkup <u>L</u>anguage
- Based on tags.
 - o So, it is called as a Markup Language
- HTML document can be named as a Web page.
- It contains HTML Tags (HTML Elements) & Plain Text.
- The file extension is .html
- The latest version is HTML 5

<title></title>

Used to add the title of the html page

<style></style>

Used to add style settings for html elements.

<script></script>

Used to add client-side scripts to the html file.

My First Web Page

← → C ① File | C:/Users/DHRM/Desktop/new.html

] music 🕓 WhatsApp 🚱 https://7596-175-15... 🔼 Minuscule -

Common tags in HTML header

<html>

<head>

<title>My First Web Page </title>

</head>

<body>

</body>

 $<\!\!img\!\!>\,,<\!\!table\!\!>\,,<\!\!hr\!\!>\,,<\!\!tr\!\!>\,,<\!\!input\!\!>\,,<\!\!from\!\!>\,,<\!\!b\!\!>\,,<\!\!i\!\!>\,,<\!\!front\!\!>\,$

TAGS AND ATTRIBUTES

```
<html>
<html>
<head>
<title>My First Page</title>
</head>
</head>
<body>
<h1 align="center"> ITRC </h1>
</body>
</html>
```