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NETWORKING & SYSTEM ADMINISTRATION LAB

Experiment No.: 1

Aim

Identify **major components of computer system** such as

Motherboard

RAM Module

Daughter cards

Bus slot

SMPS

Internal Storage Device

Interfacing ports

Procedure

Motherboard

The motherboard is also referred to as a circuit board for the computer system. It is also called the logic board or the mainboard. In the computer system, the motherboard is the biggest component that controls all the other components of the computer system and bridges a link between all components. Various components such as ROM, CPU, RAM, PCI slots, USB ports, and other components are connected to the motherboard. The controller's devices such as DVD, hard disk, mouse, and keyboard are also connected to the motherboard. The computer system does not start without the motherboard and it acts as the backbone for starting the system.

RAM Modules

A memory module is another name for a RAM chip. It is often used as a general term used to describe SIMM, DIMM, and SO-DIMM memory. While there are several different types of memory modules available, they all serve the same purpose, which is to store temporary data while the computer is running. Memory modules come in different sizes and have several different pin configurations.While "memory module" is the technical term used to describe computer memory, the terms "RAM," "memory," and "RAM chip" are just acceptable.

DaughterCard

A daughtercard is similar to an **expansion board**, but it accesses the motherboard components (**memory and CPU**) directly instead of sending data through the slower expansion bus.A daughtercard is also called a daughterboard.

Bus Slot

Alternatively known as a **bus slot** or **expansion port**, an **expansion slot** is a connection or port inside a <u>computer</u> on the <u>motherboard</u> or <u>riser card</u>. It provides an installation point for a hardware expansion card to be connected. For example, if you wanted to install a new video card in the computer, you'd purchase a video expansion card and install that card into the compatible expansion slot.

SMPS

switched-mode power supply, SMPS is a power supply that uses a switching regulator to control and stabilize the output voltage by switching the load current on and off. These power supplies offer a greater power conversion and reduce the overall power loss.

Internal Storage Devices

Internal storage devices mean devices that are embedded in your computer or the storage devices that were given to you in your computer during its manufacturing. Or in otherwords internal storage refers to the space available in a device to keep system files, applications, and user files.

Internal storage allows data and apps to be loaded rapidly into memory, ready for use. Data can be accessed faster than data which is stored on an external storage device.This is because internal storage devices are connected directly to the motherboard and its data bus whereas external devices are connected through a hardware interface such as USB, which means they are considerably slower to access.

There are **4 types of computer storage devices**: primary, secondary, tertiary and offline storage devices.Based on the material of the **pc storage devices**, there are semiconductor storage devices, magnetic storage devices and optical storage devices.

Interfacing Ports

A **port** is basically a physical docking point which is basically used to connect the external devices to the computer, or we can say that A port act as an interface between the computer and the external devices, e.g., we can connect hard drives, printers to the computer with the help of ports.

Features of Computer ports:

- We can connect external devices to the computer with the help of ports and cables.
- These are basically slots on motherboard where we connect external devices, or we can plug in external devices through cables.

- Mouse, keyboards, printers, speakers are some examples of external devices that connected to the computer through ports.

There are different types of ports available:

- Serial port
- Parallel port
- USB port
- PS/2 port
- VGA port
- Modem port
- FireWire Port
- Sockets
- Infrared Port
- Game Port
- Digital Video Interface(DVI) Port
- Ethernet Port