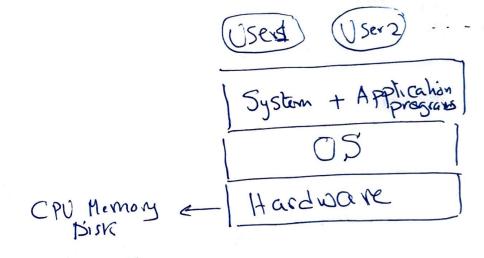
Program that manages the computer resources (hardware).

write ()

It acts as an interface to the hardware for application programs.

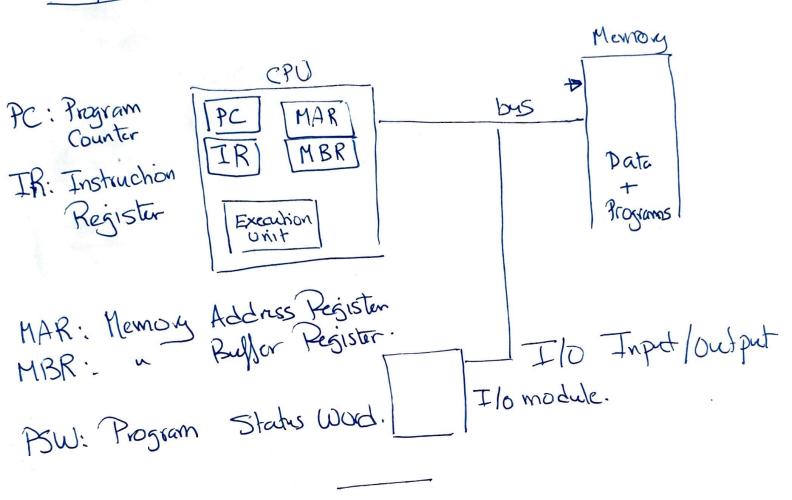


Multiple Views of an OS

User's view PC, Ease of use.

System's View

05 as a resource allocator * Fairness * Efficiency * load balancing



Operation

when a machine is booted:

* an initial program (Stored in ROM or EEROM) executis.

* Initialized the System.

Loads part of the OS into memory

* OS executos its First Procures (init).

* Waits for events to happen.

Program print () = = = are you done? with interripts Print(), y execute
another
nocums

· Entempt print is done

Why Interrupti?	西
reep the CPU Utilization high giver I/O devices are MUCH Slover CPU.	in that the
Interrept Processing	
An interrupt occuers [2] CPV Finishes executing the current is [3] Acknowled the interrupt. [3] Acknowled the interrupt. [4] CPV pushes the PC+PSW on the 5 [5] Save the rest of the process state [5] Save the rest of the process state [6] CPV loads PC with [6] CPV loads PC with [7] the address of the TSR. Vector is	terck. (vegisleis).
[7] Execute the TSR. A > [8] Restove the process state. Intempt Service. [9] POP PC + PSU From Stack. Routinic.	ISR ₀

Storage

CPU loads instructions from memory (RAM).

Slorage hierarchy 1 Resistors

Registars

Cache

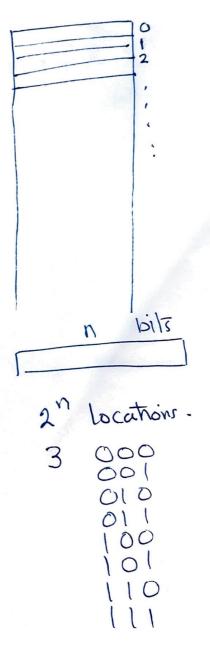
Main memory

Elechonic disks

Magnetic disks

Ophical disks

Magnetic tapes



Wide variety of devias that he OS must handle.

Device drivers: provide an interfact to the OS to interact with the device.