## metaling System!

Statul Harred & 1KN18CS097 CSE'A'Ser

An operating System is a System sty System that action as an returned but returned a go reals a newelled with the best miteting holdwore. It is a systemore that manages computed hordwore.

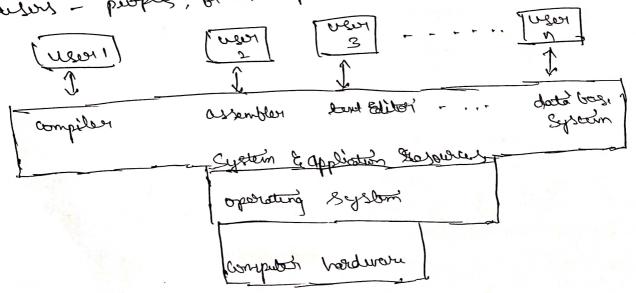
Components of computer System.

Hoerdwore - provides basic computing resources, cpu, menoly, to daricas.

Operatory System - controls and cooldinates the use of hordware anong vousely speliations and users.

Application plugglam - object the ways in which the system resources are used to solve the Computing peroblems of the , prese

usur - puople, other computers.



The basic haldwore components consists of you, mently Ital devies. The application preogram was trace Composeds, The OS received grame, evaluated to use at schoribbed boo startenes reasi marlar rot snargently mittaingge

1 b.

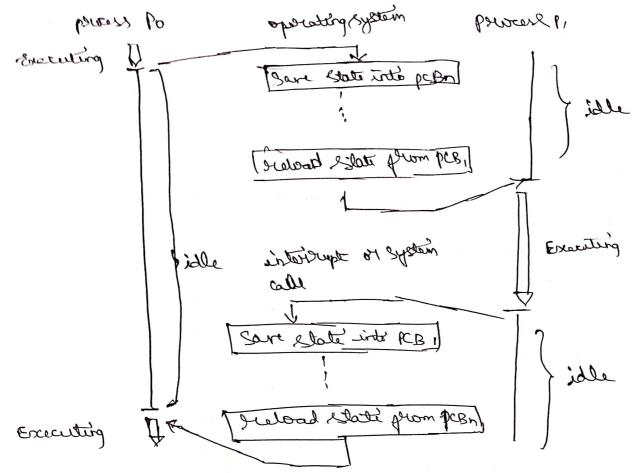
- 7 ine Shorting OS 1. It Erables Execution of multiple tasky and phocesses at the some phocess to increases the brigarious
- 2. It is bosed on the concept of time 2. It used in the concept of contact Switching, Sharing.
- 3. The idea is to allow multiple processes to jun simultaneously via time showing.
  - 4. It takes lass time to Escente the stage allocality
- 5. principle objective is minimize gresporse time.

Microphysterming 0 S

- in the main menery simplone similtaneously its implone Gu utiliyation.
  - 3. The idea is to produce the CPU idea time for as long as possible.
    - 4. It tokes more time to Executed for pleases.
      - S'. perinciple objective is marcinize privages of use.

3a. Context Switch!

The task of suitching actu from one process to another Pricess is alled- content switching, content Lindthitung are highly dependent on hardware Support.



process is lared with the PCB, and the state of another process is grown pCB to the CPU.

## PCB: Pewces Control Black

Proces Identification
phistity no
Physiam Courter
" Mendy allowtion
To status Injo
List of open file
Accountry Injo
Number of Hegistols
prival (stati.
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- -) Contride block will change arcording to
- regetation of a person of the formula of the formula fit is a state is industrial for the first substance of the formula for the formula for the formula for the formula formu
- resource of grand 20 ant star (it sover she expersed ti
- -> when a person in constail by 0s, it allowards a pc B for it.

pollouring Trybunation is stated in phosess partiall

- 1. process Edentification! Each process is uniquely identified by the user's identification and a pointer convecting it to its description.
- 2. priduty number! Os allocatif priduty number to Each
  photos. According to priority number it allocates
  the surprises.
  - 3. Pruggam courter 1- the Ac indicates the address of the root single this current process.
  - 4, Hendry altreation! It contains the value of the bots sugistary, limit registers and the page tables depending on the mendy system used by the DS.
    - 5. I/o stately information! It maintains information at both the open felos, has of Floddiness alwasted to process.
    - operation. OS keeps track of all opened the by this
      persons. ... the state:
  - prisers.

    Prisers may be in any one of the state:

    Prisers may be in any one of the state:

    The prisers and writing, toirminate.

    The prisers is a summer and writing to the state.

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On on Streads all persossors are

requal; an 2/0 con be persossod

requal; on any (pu,

30.

Assymmetric multipurcessor (1) It has one moster cou's & the remainder cou's are slaves.

- De Symmetrie mutteplocassor is series to unplanet in US
- (3) single of manages all phososport bores simultaneously
- @ Master Slave copeept is used
- The processor Economitates with Best of the period Aprend Aprend realty.

- a difficult to implement.
  - @ Separate oc, or reposable
    Of you same of marage
    - A moster slave concept is
  - (3) Shooled memory is Not used for Communication.