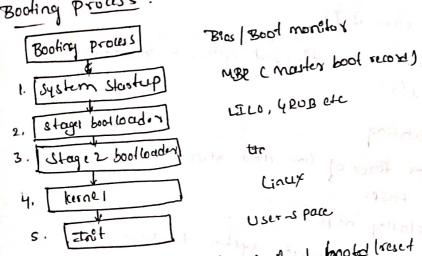
ory Booting Process:



1. system startup > when a ulm is igned booked breset the processor execute code at a well known Location. In PC-BIOS stored on a flash memory on motherland

- > Bloc 96 a small piece of code (512 bytu) 1st prog do run. > Bros Adentifies HWCboot device) Which is bootable tractive
- 2) stage 1 Boot wader job os to find and wad secondary boot - MBR loads this stage 1 boothbader

37 stage 2 boot wader + 4 pthy could as cornel toader its tost - 1st 22nd stage boot loader combined are called LELO (unique

(cader) or (LEUB ( Grand unified Boot wader)

uy terrel -> At the head of the bernel mage, a routine does some HN setup P decompress the bernel mage & place it is

- kernel is then called and ternel boot begins.
- 57 Init -> Kernel starts the first user & space application scompeled into clibrary. - Frest prog 15binlinit

027 Functions of os.

in Security

a protects user data

>It privents unauthorized access to programs & user dafa The Body of By

ily Job accounting.

- as teeps track of time and resources used by various tasts.

in Error dectating aids

-> constantly more toos the system to detect errors e avois maijunctioning of system

My Coordination between software & wars

+ 05 co-ordinates & assega interpretess, competers assessed

17 Memory management.

- The os manages the primary memory

- It beeps trace of memory, which bytes are used by

which proof.

Allocate meroony for the process, deadlocate when the process has territated

my processor management!

- as decides the order in which the processes have access -> keeps trace of the status of the processes.

VII) file managements

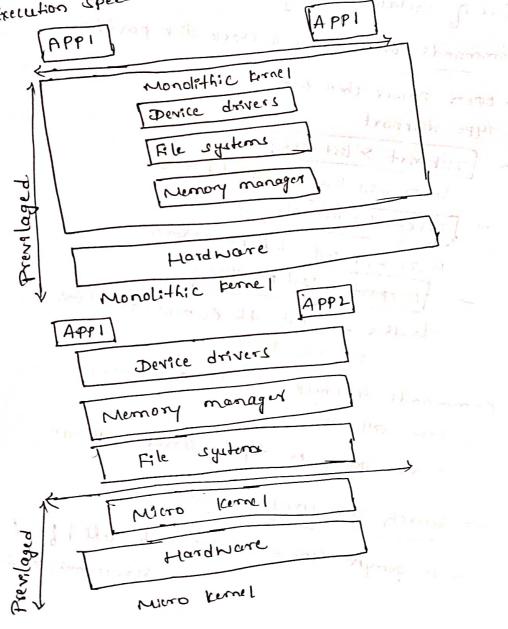
, A file ston ic organized into directories for ellicient nongation to usage Micro Kernel

- user services and kernel. are kept in separate address space

- -> 0s is complex to design.
- -y Microbernel is small in size
- Easies to add new Burefionalities
- Failule of one component does not effect the working of macro kernel.
  - -> Execution speed is low.

Monolthic berne!

- , Both user services and ternel service are kept in some address space.
- or is easy to design and implement.
  - monolithic larnel are lorger in size
  - Difficult to add wen Genetionalitics.
  - Fasture of one component leads to failure of entire system.
    - Execution speed is high



## 69. UEFI and Legacy boot

- UBFI stands for unified extensible firmware intenfou Most new motherboards consist of this type it has more advantage than using BIOS.

Most importantly, et provides user briendly graphical user interface (40I).

BIOS provides blue screen. BIOS commod recognize large storage drives. UEFI provades a good culturales

- In regular BIOs model that use the keyboard to select the option. UEFI allows controls via mouse UEFI contain Secure boot

- legacy B.Tos used by BIOS fromware. It stores a list of installed storage drive that are boolable

(6) Commands on Windows to Check disk partition.

open power chell terminal

- Type diskport

-> (SDICK Part > lest disk

Ly It will list any detected disks.

-> Discourt > list volumes

is It will list detected volumes

-> Diskport > Lost partition

Ly this will that the aureent postitions on the durace.

(6) Commande to check services in windows. -> List all services

> sc query ex type = service state=all

or search for specific service

> se queryex type = service state = all | bind/i" service name " my service Stop service

-> open stort

-> search services

-> clicicon the service you want to stert

-> CBC1c start protou

- Apply button

240 D reuses

-> Open start

-y search servicu.

-> Cliccon the Service you want to Stop.

-> Click stop

- cuck apply.