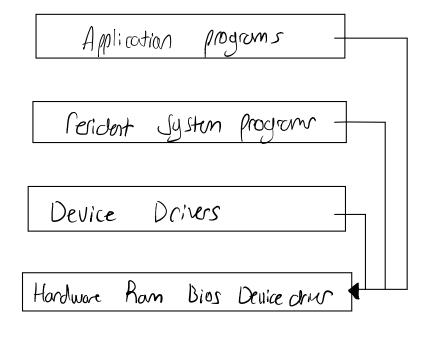
· Review question honded out du first tort this Judicy 4/15

· Next 19for Chapter 5

· Mutual exclusion in distributed environment

Architecture - orginization at operating system
- Simple Structure - Ms-der



· They did this to Cut corners because It was a posennel compler.

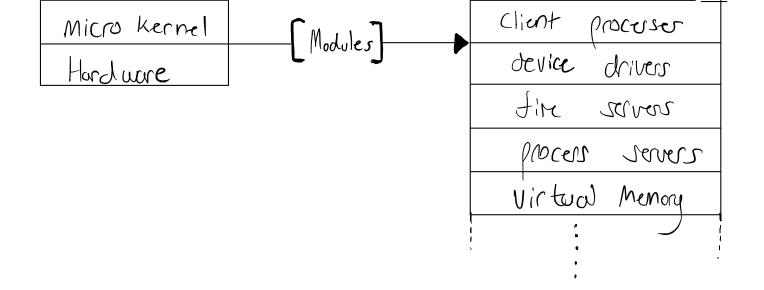
"Step wise refundent get it working, then mak it good"

Cayer Structurer - Unix

Users Shells & Commands, Complier & intemperations system l'orarier. Sustem call interface to Kernel

System permission handling I System terminal driver file system Supply block Jisk & tupe diver Clu Schedud Page seplacement demand paging Virtual memory Kernel interface to hardware terminal inter succe device Controller Monory Controller Ram

Micro Kernel - remove all non-essential companents from Kernel



- · Virtual Machines IBM VM O.S.
 - · OS creater illusion to program that it has the entire machine to itself.
 - if VM gets virus it does not pussionto parent Os
- · Most muching on in layered structures.
- · Virtual box

- Van Nueman Moore
 - . Clo

 - · Monory · Mons Sharaye

go - executo instrutions

- " increase to process consus is bursed on some of prevent,
- · Tyro of 1/0
 · programed 1/0 · CPU works for even intruction.
 - * Interrupt driven Iro
 - · direct memory access · device Centroller that does programmed I/O · Cen hors deta bow, half dypred
 - · Data channels
 - · On man Joure computer have their own bus.

Interrupt - on doort of change of Status For Gov.

interrupt vector - used to since interrupt first instruction

Can you interrupt an interrupt harder? NO

$$.95(lus) + .05(100 + 1)$$
= .95 + 0.05(101 us)
= .95 + 5.05
= 6 us

What is the parcipre of cache remory

- Locality, program do the surething alot, Keep

it close in minory.

Defining characterists of TPS-Fransaturn praction your gysm.

"Othericted to do one thing well

"wed for sever

"purpose no incomprete transaction,

Defining Characteristics of Batch os All John Lefure Start

- · you don't intervet while it ans.
- · Intractive ystem
 - · Intraction.
 - · twe slicing

 - · Pordared computer
- ·/c -
- "Main Jerre mong wo each with the idea try or the only
- · has Emc ysom
 - · Moniter events in real time report to events our it hopen, Auto pilot. · No intraction
- ·Distributed operating system

 Mater it appear like network of computer is one computs.
- · Network of More down - but cach camputer works separatly.
 - · Process State Management · Mow Stak Lingram

