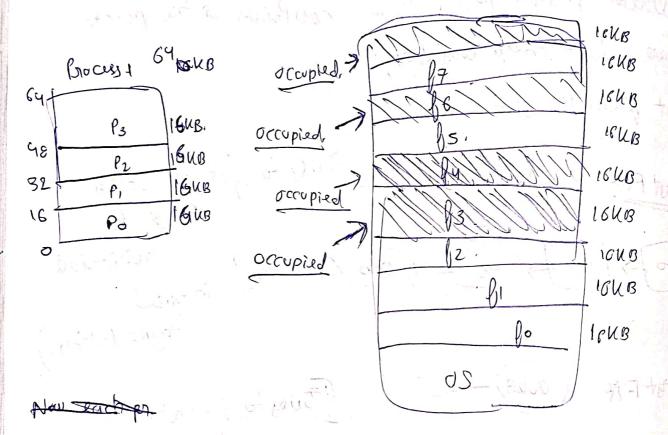
[265 Paging

Non-Contiguous Memory
Allocation

the performance of process allocation and process running

So new changes were întroduced.



Architectore is changed,

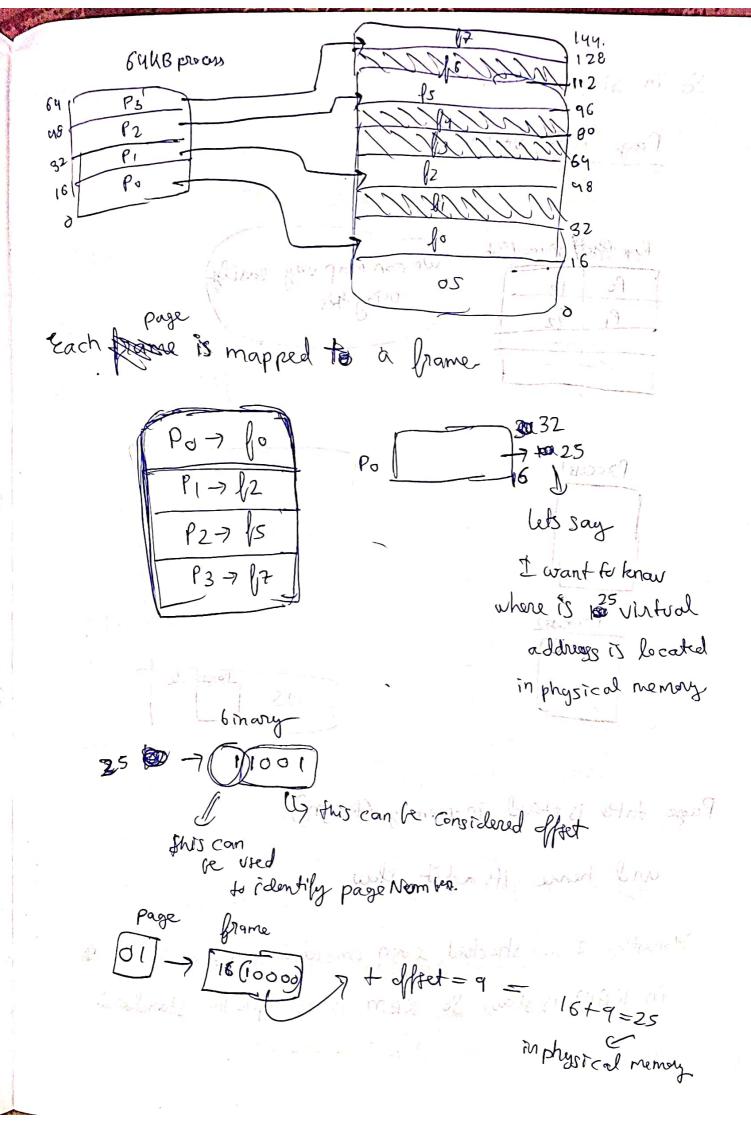
RAM

Process is split in equal segments called pages, RAM is split into equal segments called frames.

Mithering and Landing

frame Sige = = Page Sige

We decided on 16 UB have



So in simple derms, Page table stores. Page offset framedry we can map very easily) Using Ans Procest Breves 2 92

Page take is stored in-memory (RAM)!

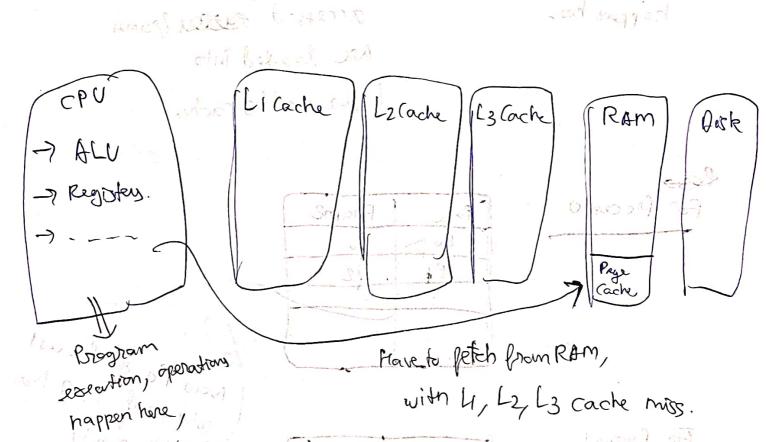
and hence its a bit slaw,

Honestly I was shocked, even considering page take to in RAM is slaw So RAM is not aptothe standard

from Brishy

Then chart gpt explain, since loss of contest switch happens and pages have to be decried from RAM, and sent to CPV for execution from RAM thats a per flow openation.

This Statement made me curious and I asked for the onchitectore Most - Wed in the whole you is not



So to execute a snippital code for a process.

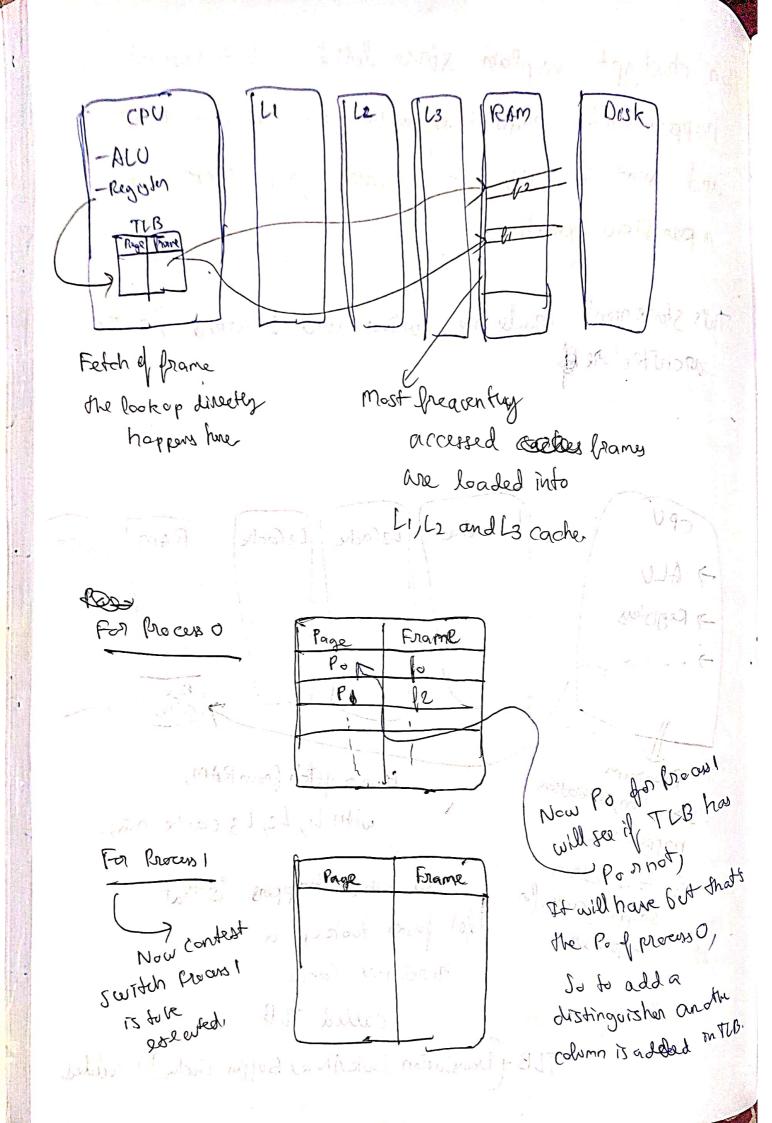
allower rollersporters

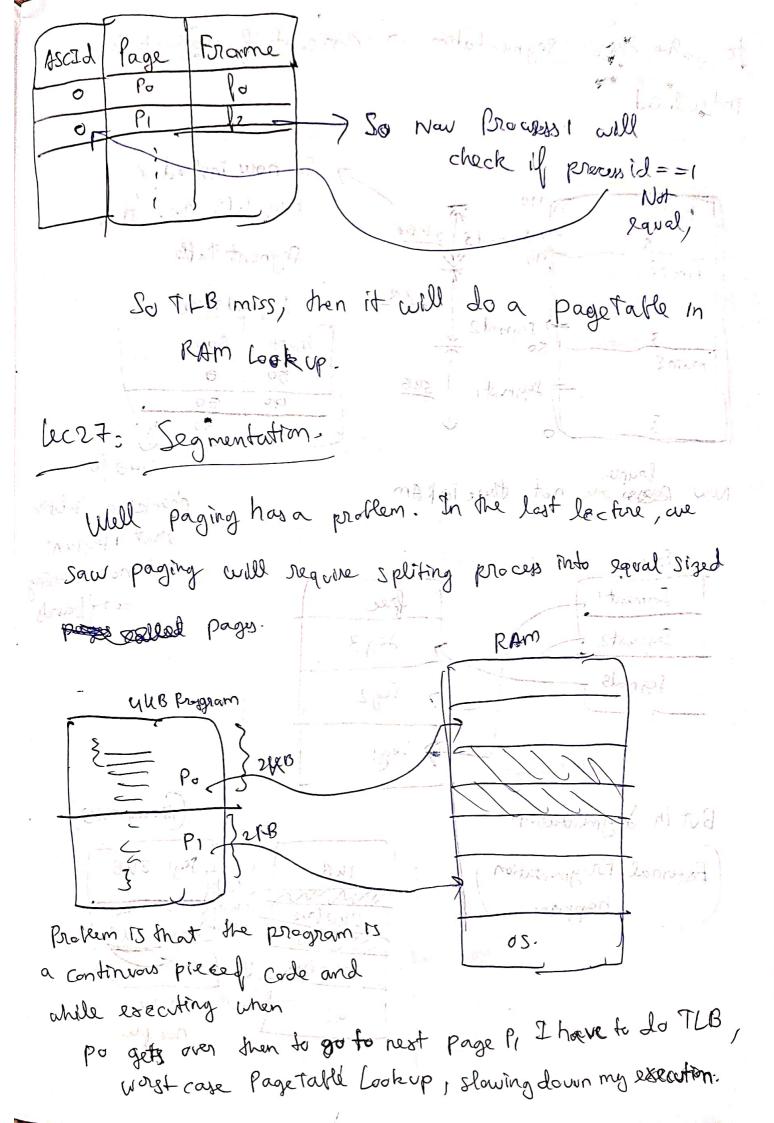
So what happens is that for basker lookup a Mandwork Cache

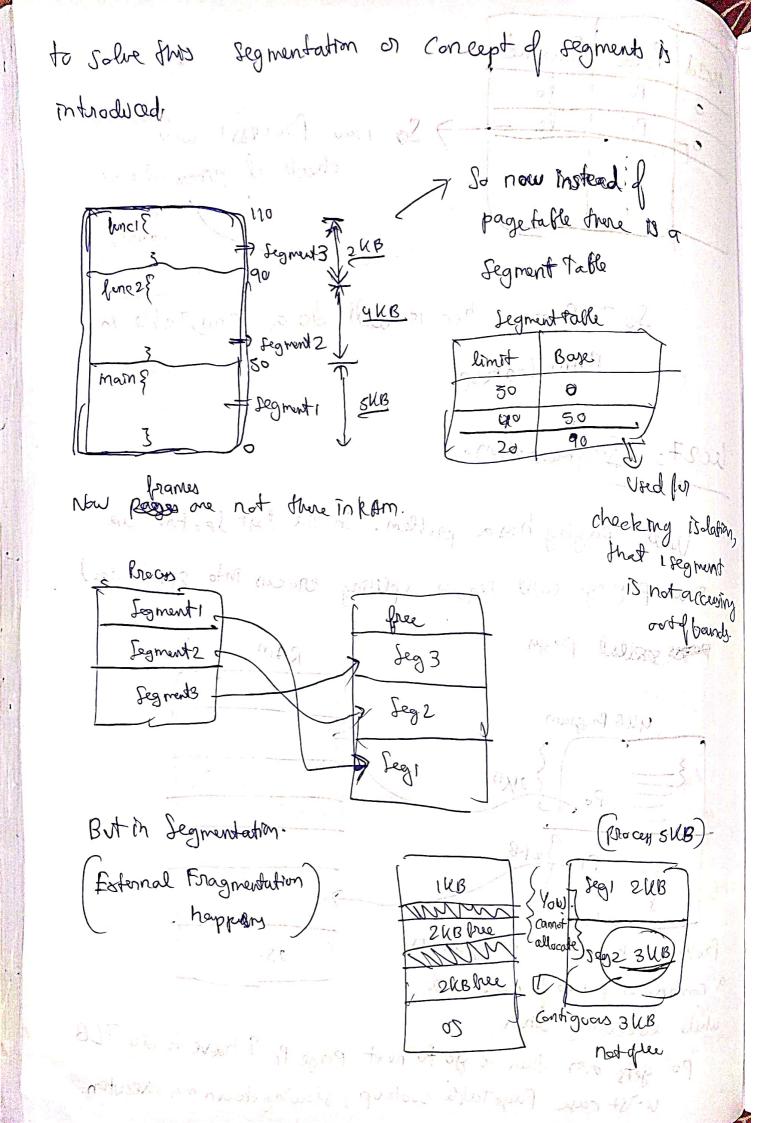
red suggest

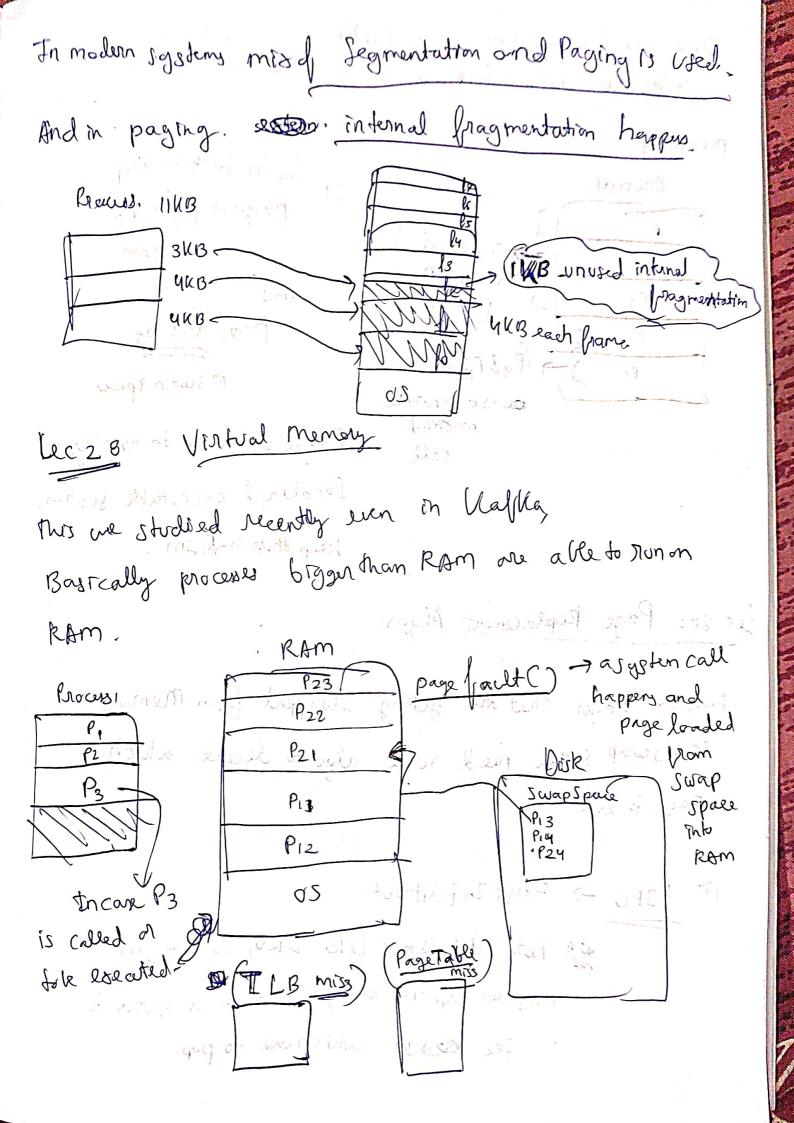
called TLB.

TLB & Translation Look Ahead Buffer Cache) is added









One way to minimize page faults, is by locality references.

Procession Sequential Procession de meshad

Procession de meshad

Procession de meshad

Procession de meshad

Procession restracte

meshad

call

So its feter to keep

pages -> P1, P2, P3

in RAM

and

pages (Pyl P5)

in swap space

Pages which are in rearby locality of executable section, heep those in-Rom.

Lec 29: Page Replacement Algos.

Now the pages that are getting Swapped from Memery or into swap space need some algo to decide which?

Page 6 evid

15t FIFO -> First In Frustout

2 Note this is not like LRU, so are just

consider injection order, Just we a queae to

Fee bowlest which one to pop.

In FEFO one would assume, If we increase the number of frames in RAM, then page fould would decrease, Espected Page Faults > Unexpect Behourm. (Belady) Anomaly) kest de Know about [LRV, LFU, MFU] (pop most frequently used) Diles Soil pregrandous Thrashing 3 Scenorio where page fault and Page swapping has increased so much that CPU is not getting time to execute the program. The more the multipregraming the more chances of throughing.

and Swapping (P.79)

