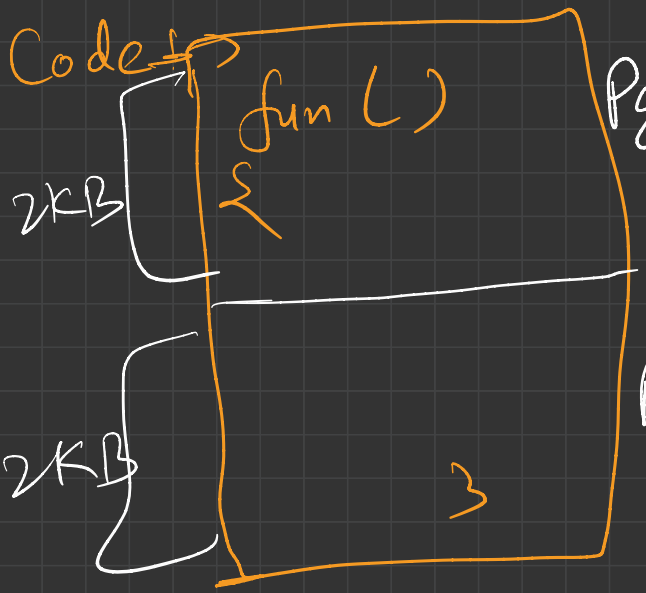
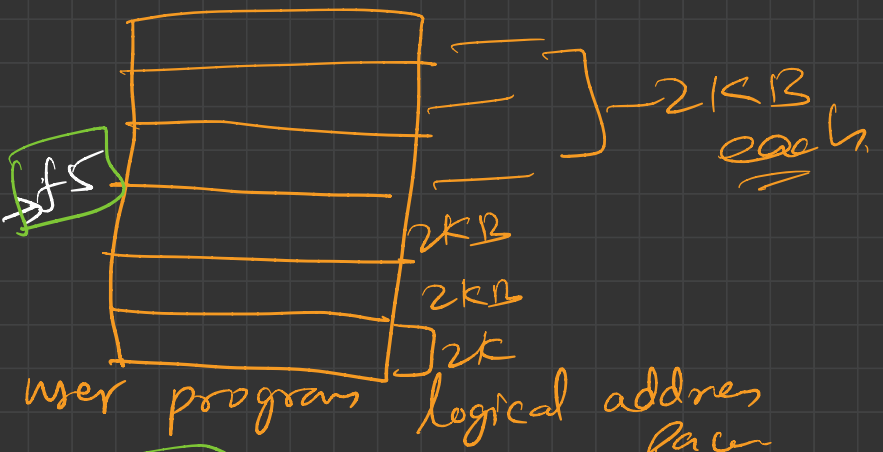
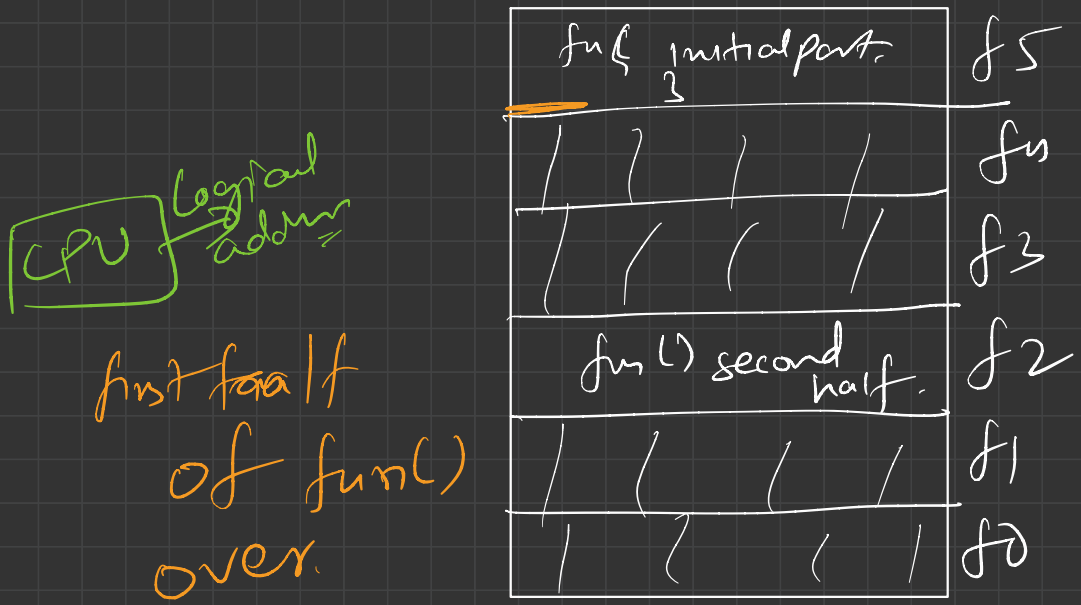
Lec-27

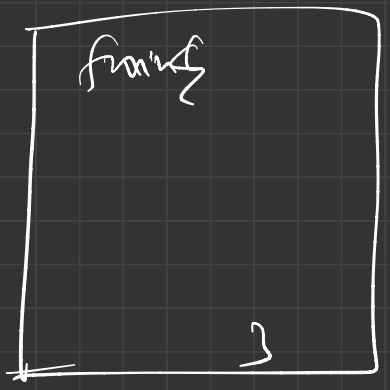
Paging :> Problems





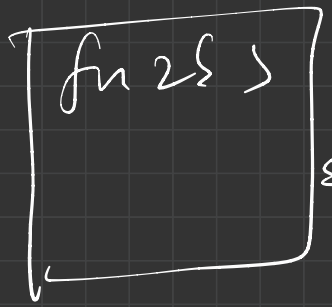

fun() initial part.
3
f5
f4
f3
fun() second half.
f2
f1
f0
CPU
Logical address
first half of fun() over.

* Segmentation

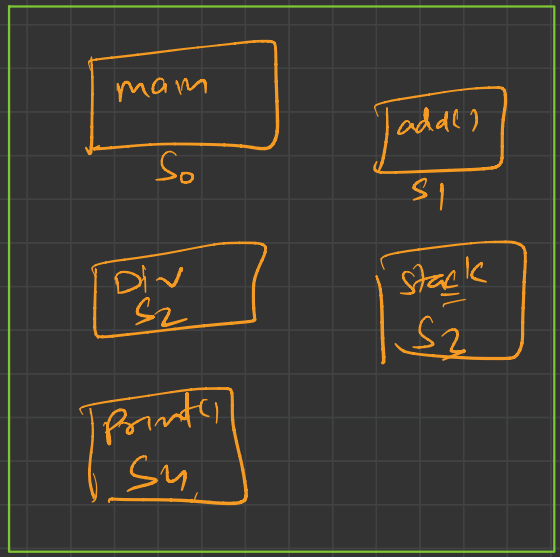


→ Variable partitioning of Logical address space.

→ diff. segments
→ varying sizes.
→ user view



segment

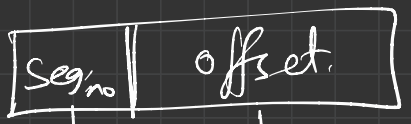


Segment size diff

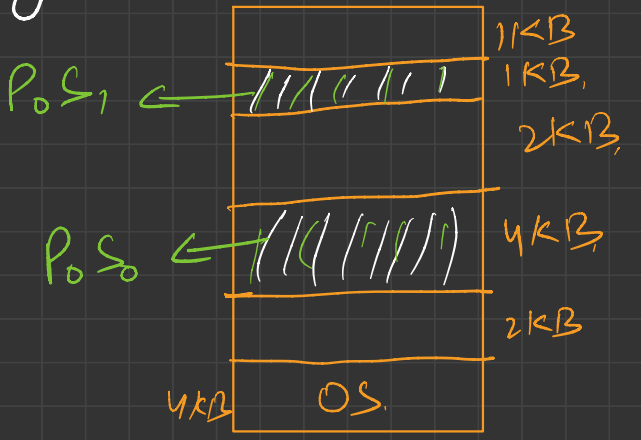
* MMU => Translation ??

LA → PA ?

=> LA =>



=> Ext frag. => in Segmentation



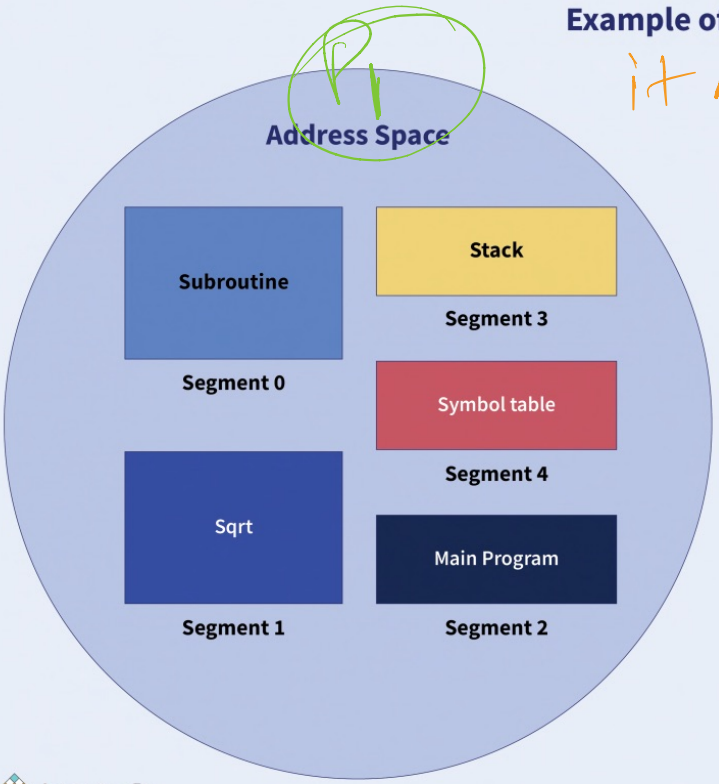
$P_0 S_1$

$P_0 S_0$

$P_1 \rightarrow S_0 \rightarrow 2KB$

$S_1 \rightarrow 3KB$

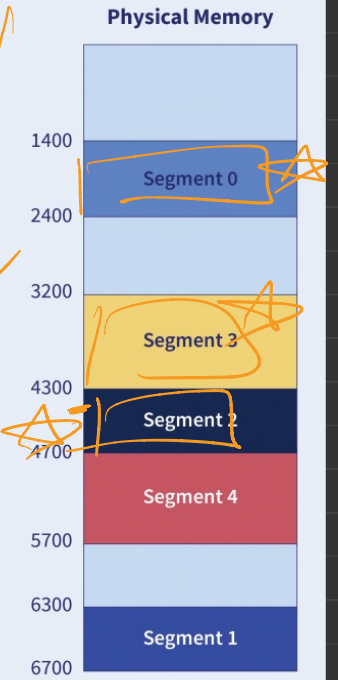
Example of Segmentation



Segment Table

Limit	Base
1000	1400
400	6300
400	4300
1100	3200
1000	4700

Ex: Segment 2 = 4300 +53 = 4353



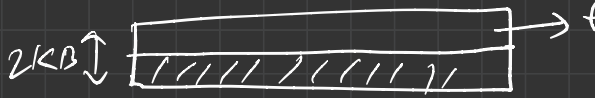
InterviewBit

Internal frag. in paging

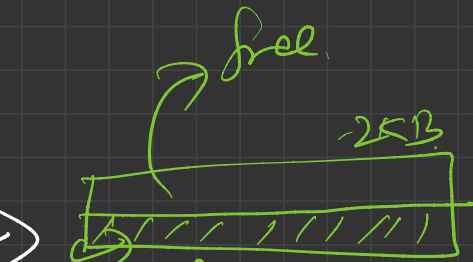
Program → 15 KB

Page size → 2KB

16KB → ✓



Page.



Return