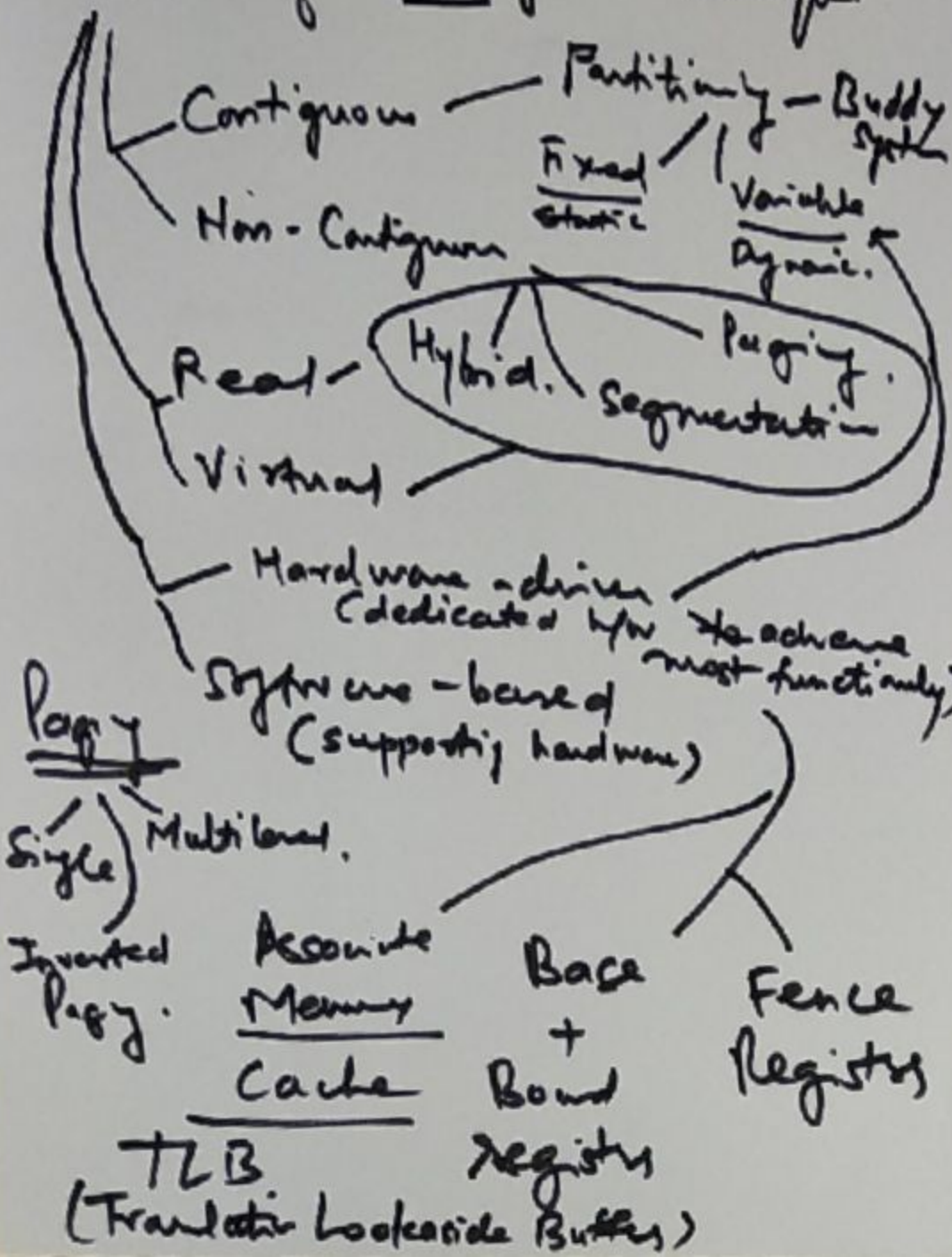
- Classification of MM Techniques



MM Techniques

① Data Structures / Partition Table, Page Table, Segment Table

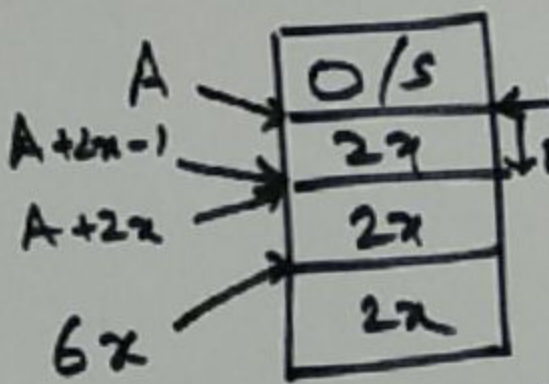
② Hardware

③ Address Translation Mechanism

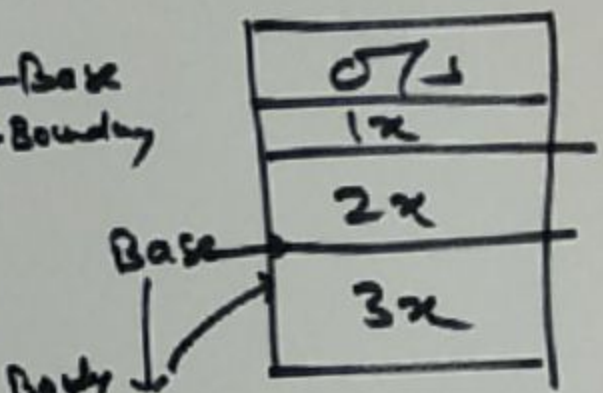
Fixed Partitioning (MFT)

(Static)

Multiprogramming with Fixed Tasks



Equal size Partition

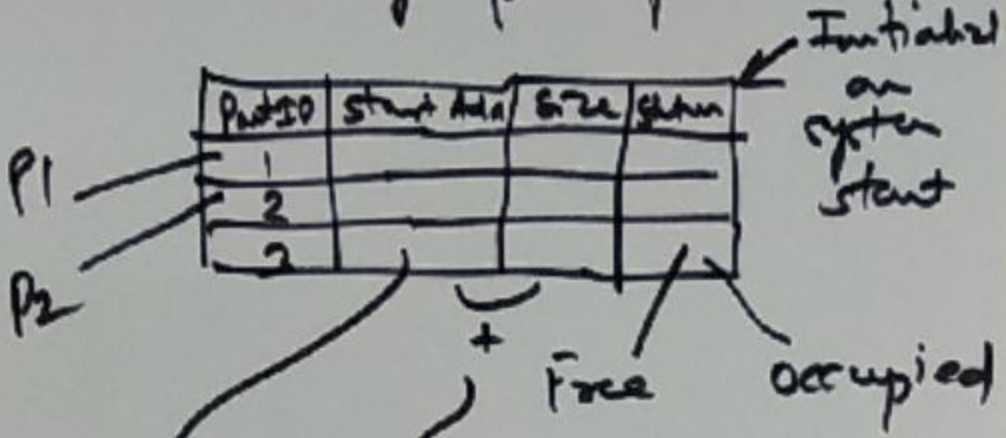


Variable size partition

— Size of partition limits size of runnable program

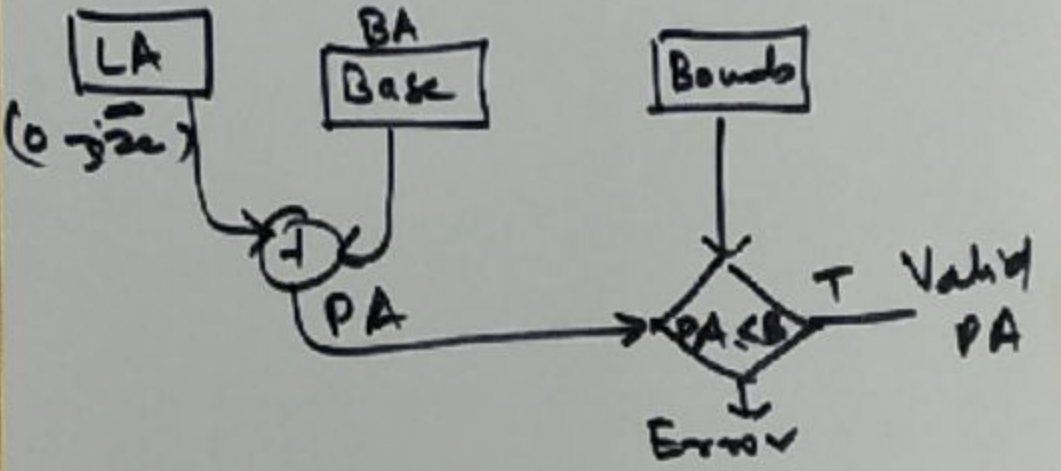
Partition Table

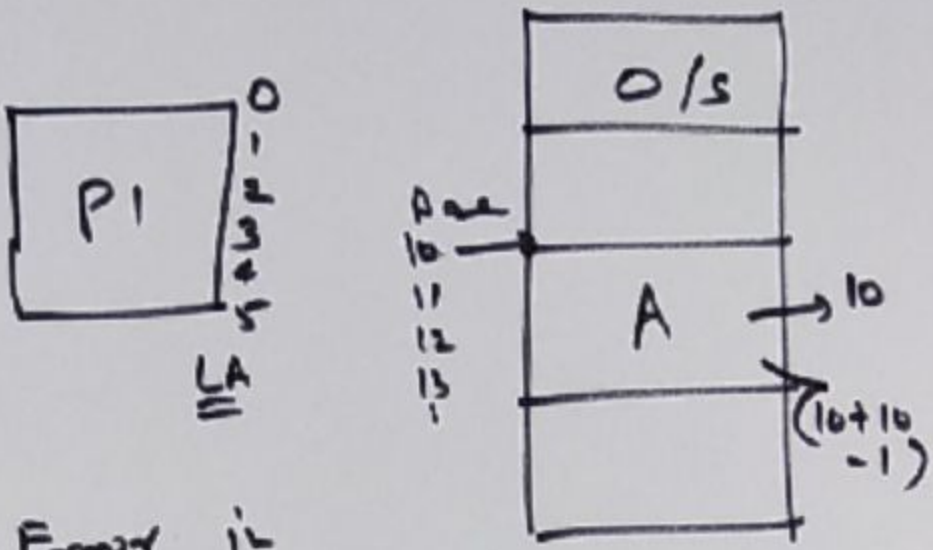
- one entry per partition



- Base / Bound Registers

protection Specific.

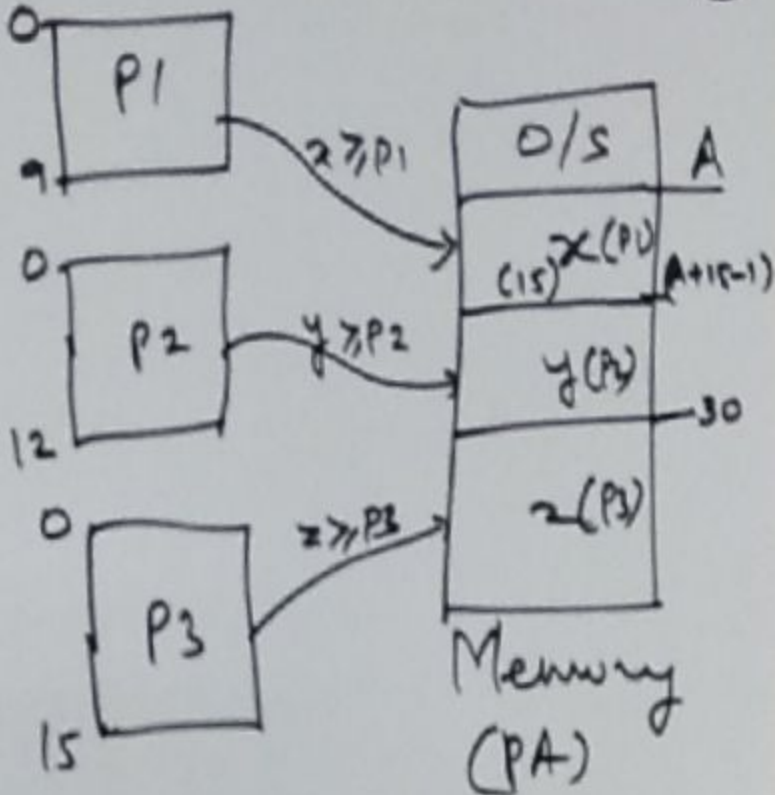




= Error in Addressing → checks Bound

Base + Bound / Base + limit

decide the last valid address for a given process memory

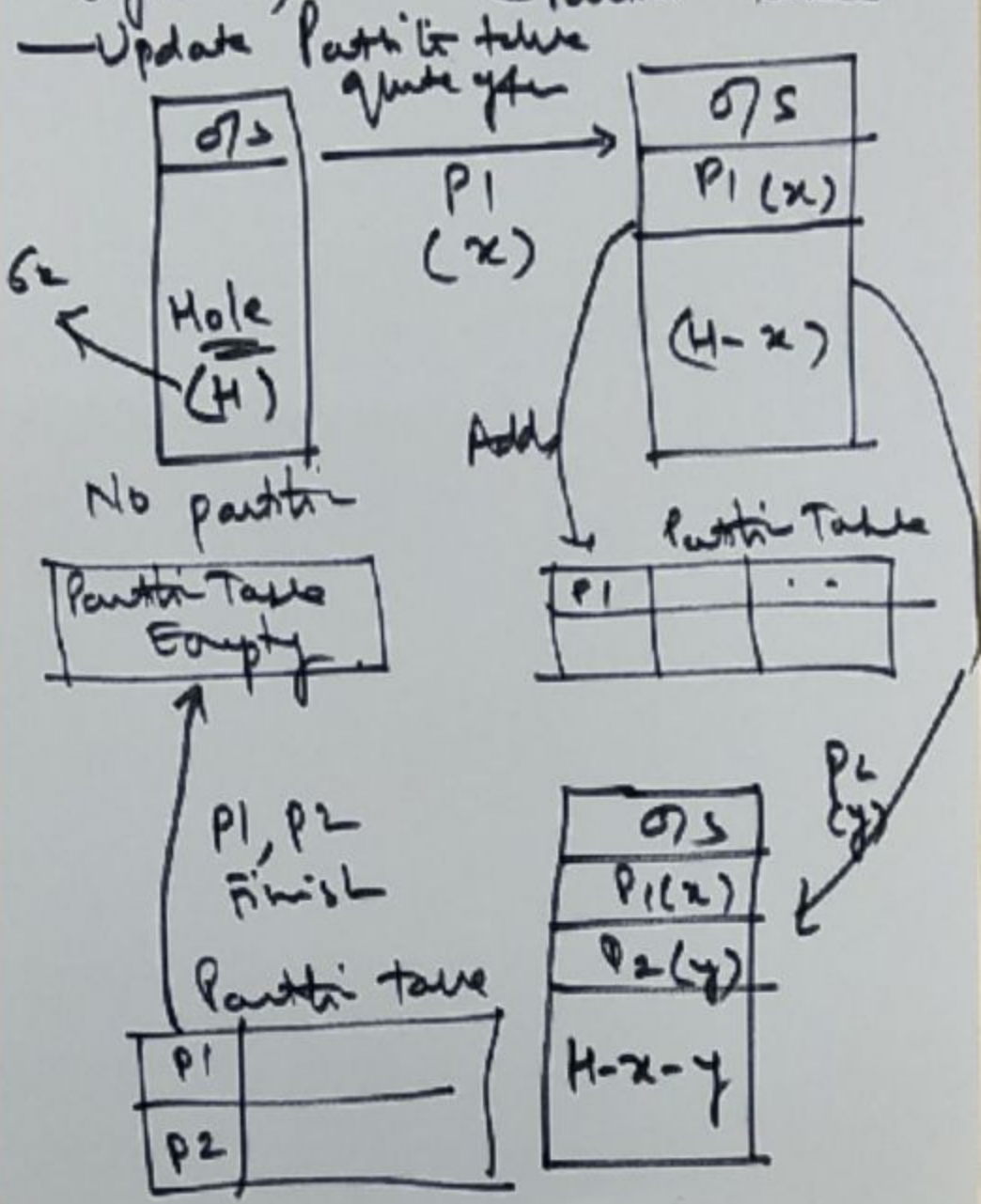

0
P1
9
x >> P1
O/S
A
(15) x (P1)
A+15-1
0
P2
y >> P2
y (P2)
12
30
0
z >> P3
z (P3)
P3
15
Memory
(PA)

Variable Partitioning

(Dynamic)

— Update Partition table

└ Partition table



- Partitions get created based on the requirement of the incoming process

. Issues on Partitioning

— Placement Algos —

— Memory Wasted. —