Inverted Paging: To stadmon I

- Trunning in CPU currently, then 10 different page table will be needed. Each page table
 - => Currently trunning processes page table
 must be in Main Memory.
 - => So, we have to use Main Memorry frames

 for storing many page tables.

 => Storing multiple page table (one PT for
 - Storting multiple page table (one PT form one Process) can lead to increased in Memory Usages. Thus, memorry overeflow can happen.
 - The inverted paging, a single global page table will be sharted by all processes. Here, we do not use unique page table for each process.

H Number of Entries in between 19 Inverted Page Table = Nom of Fromes

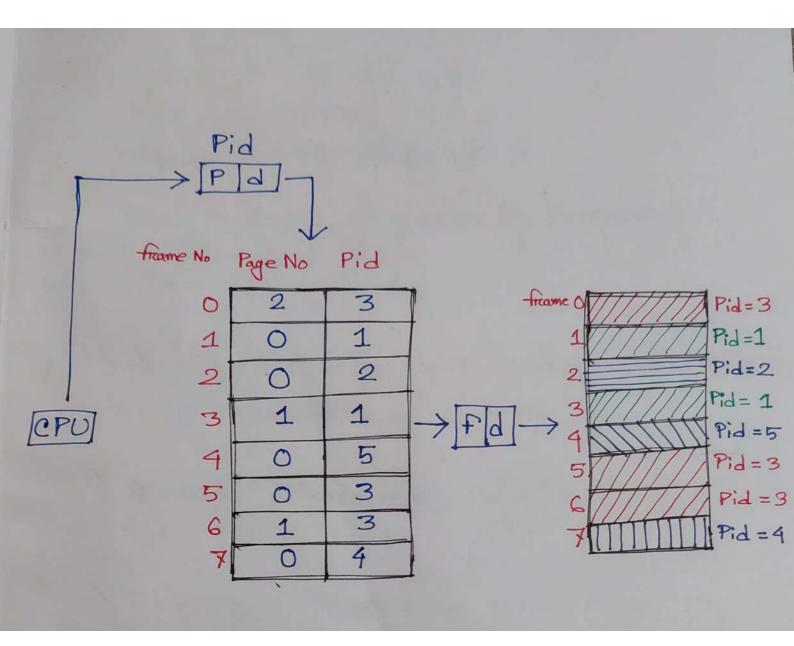
slot appear of the stable and the stable and

page table will be needed. Each page table If we I want to find frame numbers of logical address generated by CPU, then we have to perctorm linear search fort-finding cortresponding processes page So, we have to use Main Mestadmuncame tote storeing many page tables.

I Linear Seach is inefficient in case of time complexity.

田 So, inverted page table can reduce memory usage but also will lead to higher time complexity. So Inverted SIPT is not populate. Propos belots vici rel table will be sharred by all processes. Here

we do not use unique page table for each



L.A = 64 bits Page Size = 16 KB Physical Memorry Size = 8GB

> Find Numbers of entries in Inverted Page Table.

=> In inverted page table, number of entries = number of frames.

Number of frames = $\frac{86B}{16KB}$

$$=\frac{2^3\times2^{30}}{2^4\times2^{10}}$$

$$=2^{33-19}$$
 $=2^{19}$

so Num of entries = 219