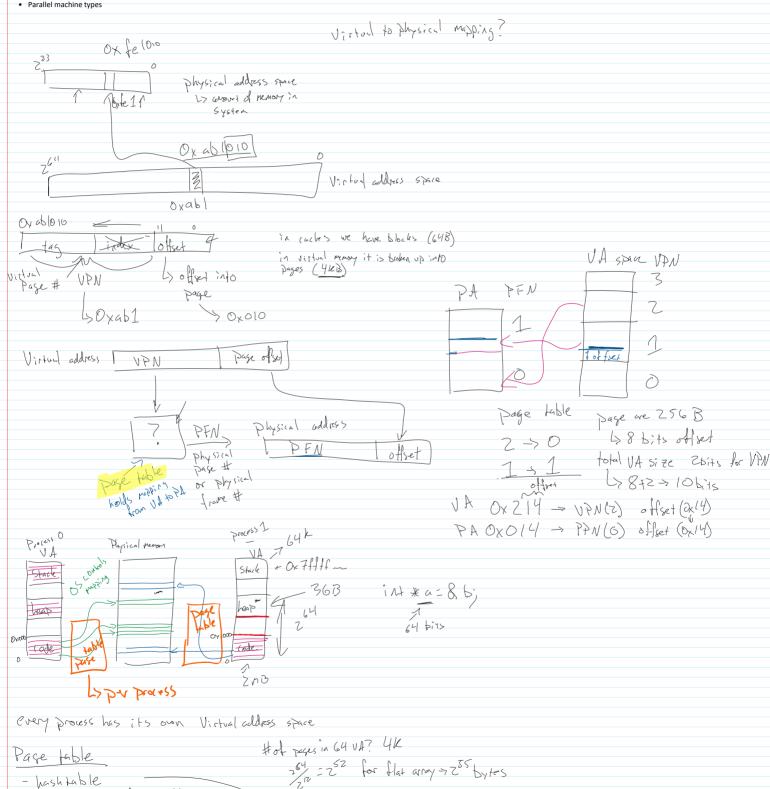
## Lecture 18: Virtual memory

Thursday, March 8, 2018 9:29 AM

## Outline

- Virtual memory
  - O How to translate virtual to physical addresses?
  - Multi-level page tables and x86 translation
  - TLBs and MMUs
  - Finish memory
- Parallel machine types

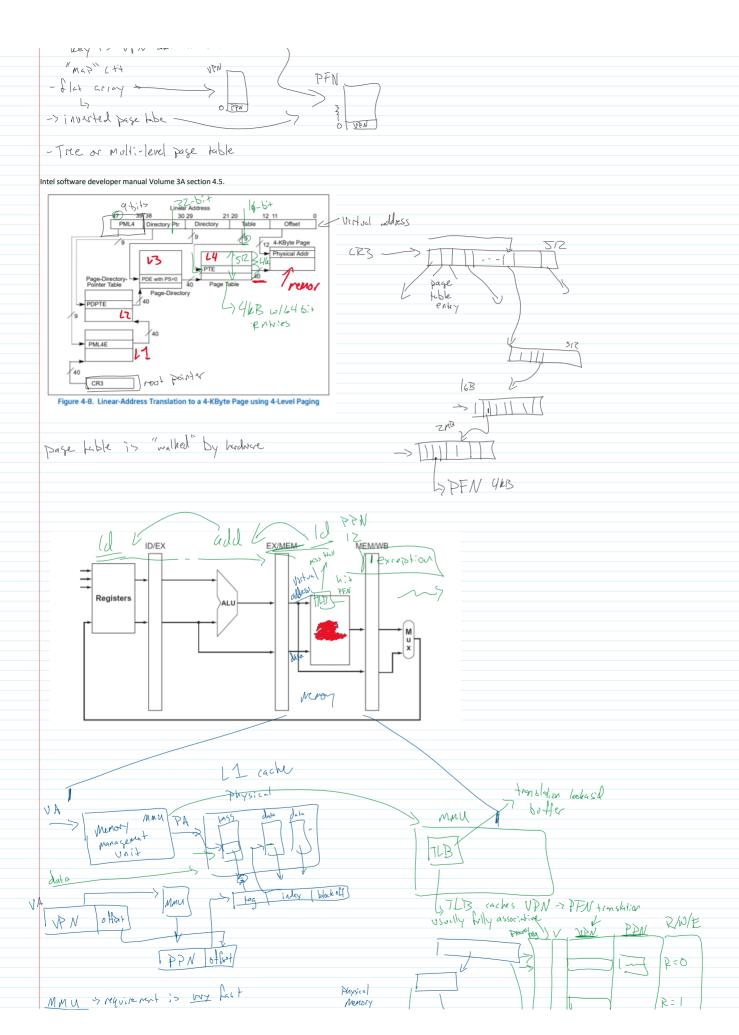


NFN

key is VPN data is PPN

"Map" (++

- flat array >



TT/1 | 01100 1

MMU s requirement is very fact
for evy request translate from UA to PA
U memory requests to get translation

- 5 92 5 53/15 = 510 6 8 9 54.80 AWB

