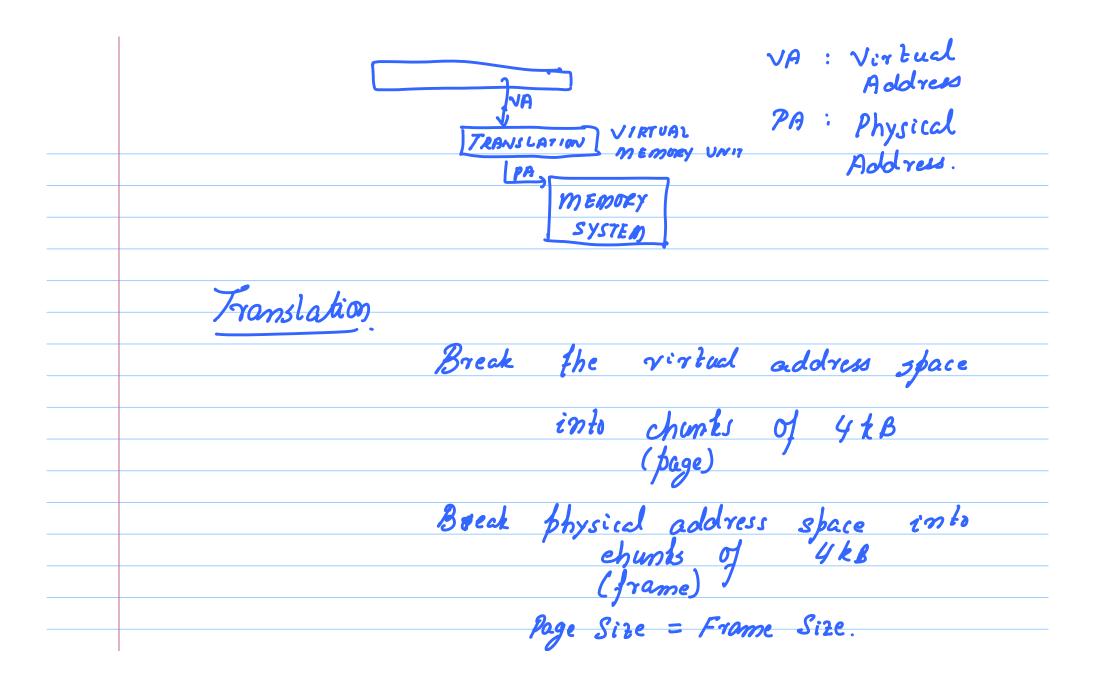
Oct - 31, Roban. 31-10-2011 Note Title Virtual Memory: PIPELINE MEMORY Example: Win Edt Windows Journal. Q: How do we ensure that one program is not overwriting the memory space of another program! Ams: Programs are isolated from each other.

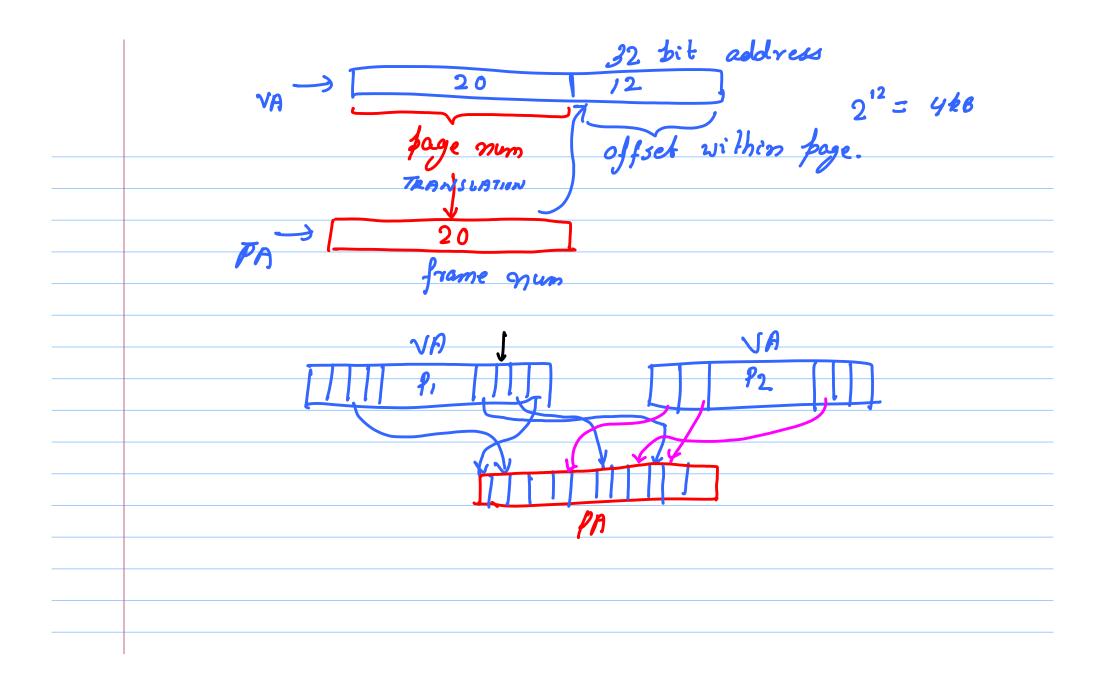
assign disjoint memory regions to P1 2 P2 How 2 when do I assign? * Statically (compile time)

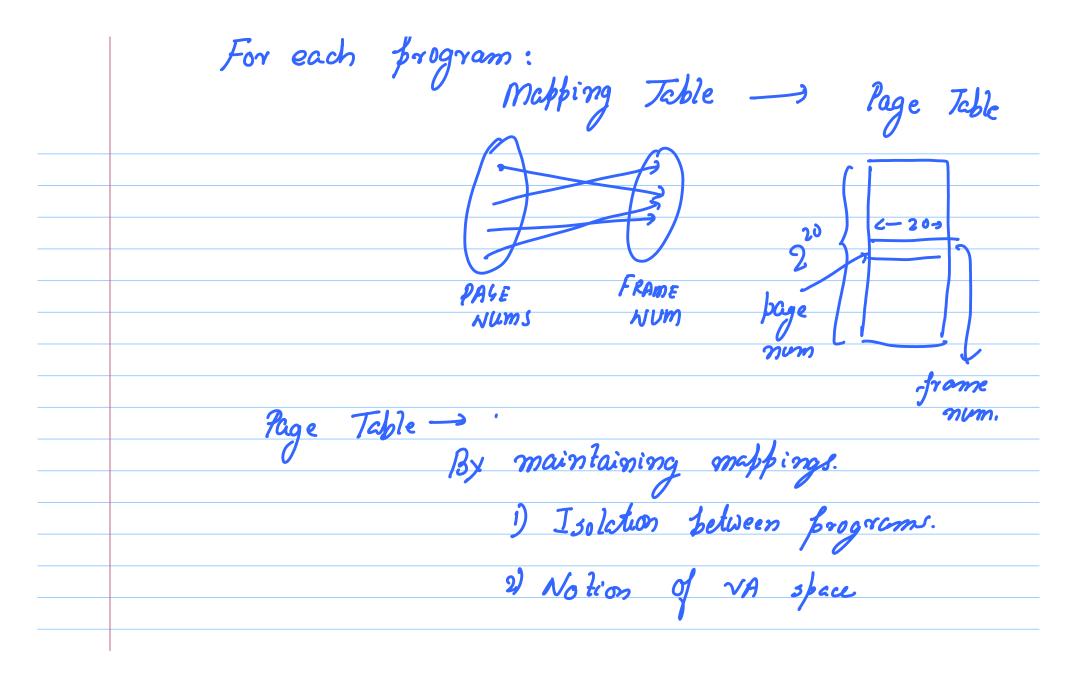
-- cannot eliminate overleps. → not possible to cosign large
Contigues memory regions.

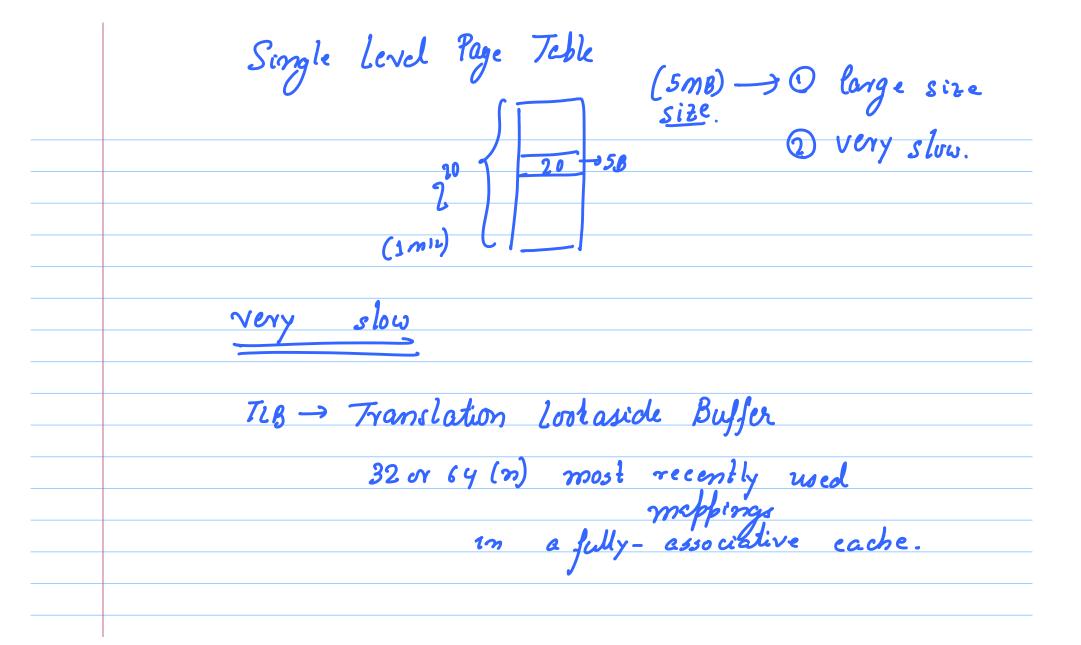
32-bit address space

Virtual Memory: Every program assumes that it
has 4 GB of memory exclusively for itself.
VA space
Virtual address spau.
header head stack
$0 \text{text} \begin{array}{c} R0 \\ \text{data} \text{s bette} \end{array}$
If all programs have the same layout, how come they don't conflict!
they don't conflict!









Most accesses have a TIB bit
VM VA TLB
Page Table PA
Next Class: Multi-Level Page Tables