Two-Level Page Lookup Physical Memory Virtual Address secondary page offset master page Physical Address Page Directory frame offset page frame page frame Page Tables

32 bits address space, 4K pages, 4 bytes/PTE

- How many bits in offset? 4K
 so the virtual address requires requires I 2 bits for the offset
- We want the Page Directory to fit in one page
 4K/4 bytes = 1K possible entries
 so the virtual address requires 10 bits for the Page Directory index
- We also want each Page Table to fit in one page
 so the virtual address requires IO bits for the Page Table index
- \rightarrow 10 + 10 + 12 = 32 bits address This is why 4K page size is recommended