## x86 Paging

- Paging enabled by bits in a control register %cr0
   (only privileged OS code can manipulate control registers)
- Register %cr3 points to 4KB Page Directory
   (for Pintos, see pagedir activate() in userprog/pagedir.c)
- Page directory has 1024 PDEs (Page Directory Entries) (see pagination details)
  - Each contains physical address of a Page Table
  - Each Page Table has 1024 PTEs (Page Table Entries) and covers 4 MB of virtual memory
  - Each contains physical address of virtual 4K page

## x86 Page Translation

