





Paging and Virtual Memory

 Idea — extend this scheme to provide "virtual memory" — keep some pages on disk. Allows us to pretend we have more memory than we really do.

• (Compare to swapping. Details later.)







Slide 8

Page Table Size — Example Given a page size of 64K (2¹⁶), 64-bit addresses, and 4G (2³²) of main memory, at least how much space is required for a page table? Assume that you want to allow each process to have the maximum address space possible with 64-bit addresses, i.e., 2⁶⁴ bytes. (Hints: How many entries? How much space for each one? and no, this is not a very realistic system.)







