



FIGURE 5.25 Mapping from a virtual to a physical address. The page size is $2^{12} = 4$ KiB. The number of physical pages allowed in memory is 2^{18} , since the physical page number has 18 bits in it. Thus, main memory can have at most 1 GiB (2^{30}), while the virtual address space is 4 GiB (2^{30}).