

5. 16KB Example with Page Directory

256 page table entries * 4 bytes each = 1 KB = 16 * 64-byte pages with 16 PTEs per page

4 bits to index one of the 16 entries in the page directory:

$$\text{PDEAddr} = \text{PageDirBase} + (\text{PDIndex} * \text{sizeof(PDE)})$$

4 bits to index one of the 16 PTEs:

$$\text{PTEAddr} = (\text{PDE.PFN} \ll \text{SHIFT}) + (\text{PTIndex} * \text{sizeof(PTE)})$$

