memory calculation

16 bit VA   16 KB phys mem

pg #   pg offset $2^{10} \times 2^{4} = 2^{14}$

Pg size = frame size

We choose 1K page size

$\log_2 1K = 10$ bits offset

6 pg #	10 bits offst

4 fm #	10 bits offst

$\log_2 X = \#$ of bits

$2^x = $ possible values

TLB = caching the page recently used

$$\text{\# bits pg \#} = \text{\# bits VA} - \text{\# bits offset}$$

$$\text{\# pages} = 2^{\text{pg \# bits}}$$