Let's use LC3

--- 16-bit words (2B)

--- 2B-addressable memory

--- 16-bit physical addresses

Add:

- --- 16-bit virtual address space
- --- 4k word pages
- --- page number = 1st hex digit of Virtual Address
- --- frame number = 1st hex digit of Physical Address











Better use of PTE bits: Don't need PX in PTE, PX is in VMAR, PX is PT index. (STill needed in TLB).





Device address decode recognizes xFE00 and xFE02. Keyboard data moved to R1.

Suppose	TLB[x <mark>F</mark> x <mark>4</mark>]	xFE00 ===> x4E00	(references a word in memory!)

Solution: TLB[xF xF] xFE00 ===> xFE00 (accesses KBSR)

