

Homework 12(1/3)

1. True or False

1	T	If an address translation for a virtual page is present in the TLB, then that virtual page must be mapped to a physical memory page.
2	T	The set index decreases in size as cache associativity is increased (assume cache size and block size remain the same)
3	F	It is impossible to have a TLB hit and a data cache miss for the same data reference.
4	T	Virtual memory implements the translation of a program's address space to physical addresses.
5	T	To track whether a page has been written since it was read into the memory, a dirty bit is added to the page table.

2. Group Questions

Give a computer system that features:

- A single processor
- 32-bit virtual addresses
- A cache of 2^{10} sets that are four-way set-associative and have 8-byte blocks
- A main memory of 2^{20} bytes
- A page size of 2^{12} bytes



- (a) Does this system cache virtual or physical addresses?
(b) How many bytes of data from memory can the cache hold? (excluding tags)
(c) In the cache, each block of data must have a tag associated with it. How many bits long are these tags?
(d) How many comparators are needed to build this cache while allowing single cycle access?
(e) At any one time, what is the greatest number of page-table entries that can have their valid bit set to 1?

(a) virtual

(b) $2^{10} \times 4 \times 8 = 32$ Kbytes

(c) $32-10-3 = 19$ bits

Solution To Practice Problems Chapter 12 Hkd7e

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