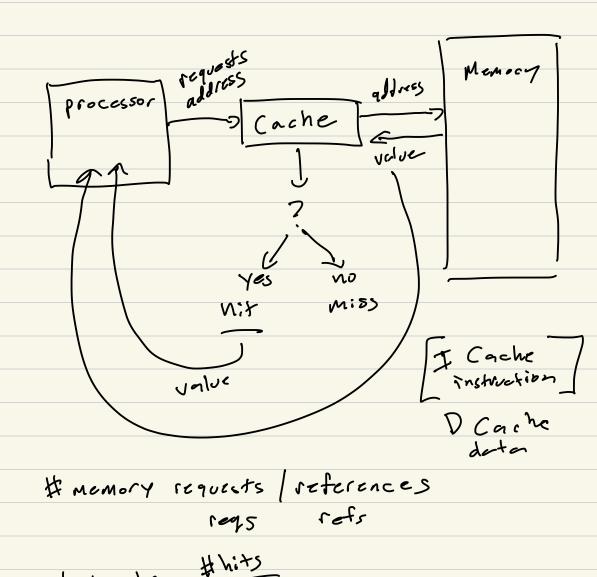
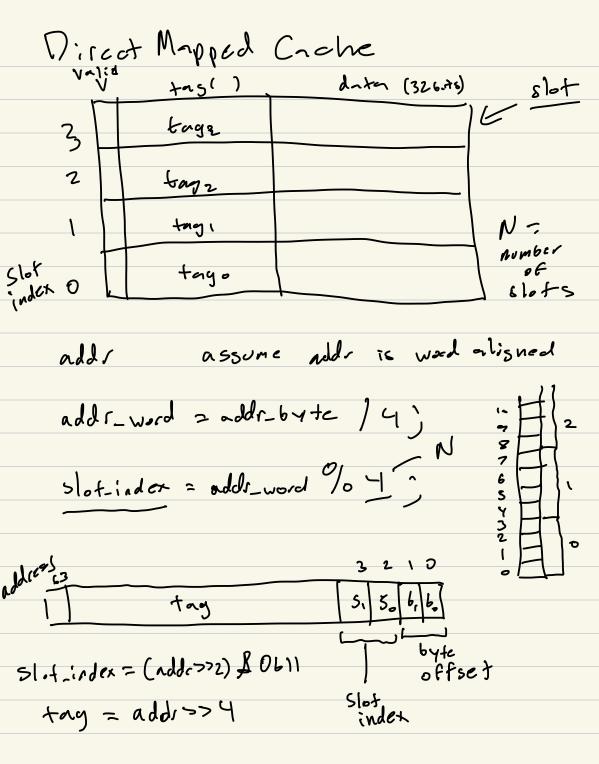
C5315-02 Cache Simulation



hit rate # refs

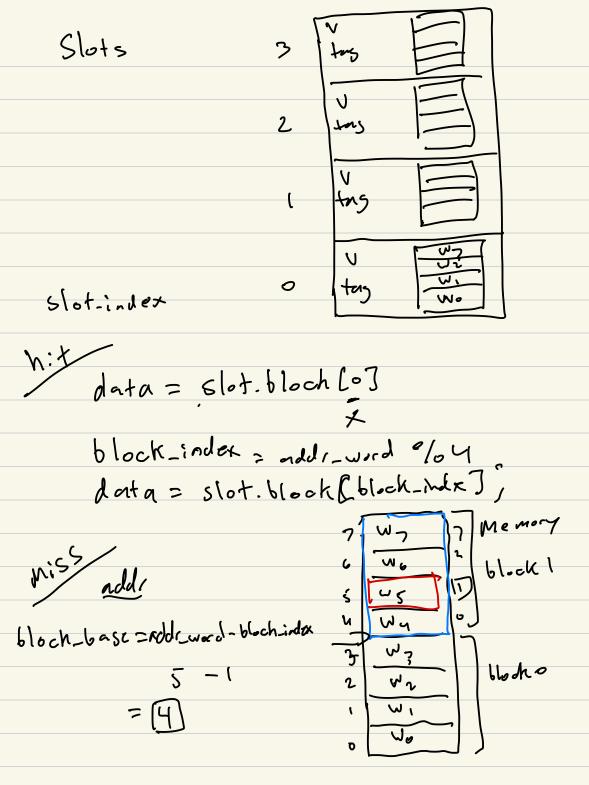
miss rate # misses

refs

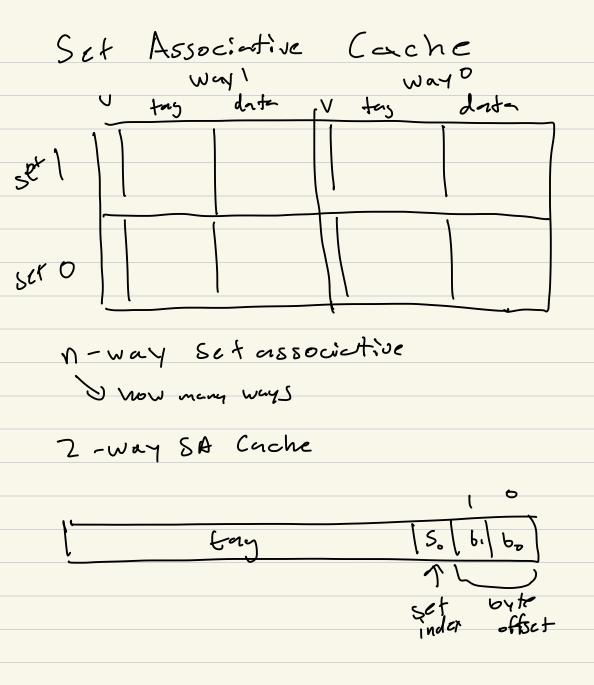


Pirect Mapped Yseudo code tag = add >> 4; index-mask = Obili) Slot-index = Laddo >> 2) & index_mask; slot = cache [slot_index]; if (slot.valid && slot.ty = tang) 3 // h; + return 6lot. deuten 3 else 2 // m:ss slot.data = *((vin+32-+*) addr), slot. tag = tag; Slot. valid = 11 return slot-data; addr-word 2 addr-byte /4 stot-index = addr-word %08 tag = alds >> 5) index_mash = 06111 Slot-inder= (addr >>2) & indicament

block Block Size 32 6 As TW3_ add/ 63



Read in entire block (I word at seturn the word needed Fully Associative Cache uda (



Pseudo Code Lookup SA num_refs +=1 ` NJM - wan/s = 2) try = add (>> 3 " set_index = (addr >> 2) & Ob) Set-base 2 set index x 2) tor (izo ; iz nun-ways; itt) [Slot = cache[set-base + i]; if (slot. valid & & slotiting == try) 11 7:7 Slotitimestemp= num_refs' return slot. data // miss Slot = find Irv-in-set (cache, set-base) slot. data 2x((i) tot32-6 +) addr), shot. tag = tag slot. time ctamp = nun-scts; return slot, data