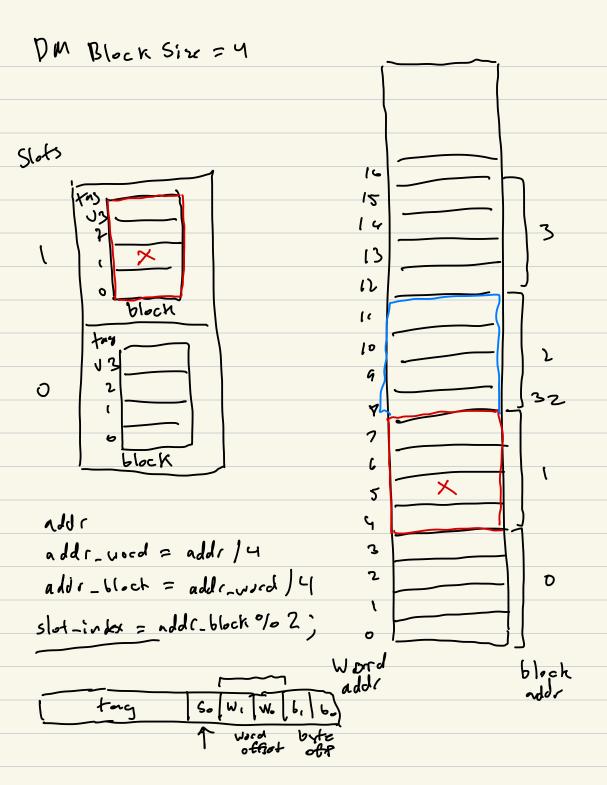
CS 315-01 Project 04 Midterm MUNOCT Cache Direct Maylad 17 I word per slot 8 word cache 16 15 Slots 14 LI 11 11 4 b 3 5 2 7 (7 5 u Slot = addr-word % 8 3 D 52 \$ 5 6, 6 400 slot byte index offset

61-1-index = (addr >> 2) & Obill



block-base = add (word - block: 18K Look of DM 4 1 d & (PC< 16bx) = nobni_foli といけ b-index = (addr >>2) & Obll b-index = (add//4) % 4 M(55 We need to bring in entire block Determine block bose [دوم Loop 0 to 3 61-ch Slot. block [] = into clot * ((Uint 37_tx) (block_base_byte + (ix4))) slot. block (;)= * (((uint32-t*)(610ck_basz_bytc)) + i)

return slot. block [baindx]

Direct Mapped 32 words 4 word blocks 32/4 = 8 36+5 Obill == OxF idde 52 S1 S2 W, V. b-index = (add >> 2) 8 0611) slot_index = (addr >> 4) & Olll) block-buse-byte = aldr & N(OXF) 16 10000 01100 12 01000 0 00106 00000 word 6 y t c bloch

Question 2
Fix 1: line

Question 3 Why 20 Lit shift

Set Associative Cache

Y war set associative

8 vords

