180010011 JULY' 19 Day 191-174 Assignment - 2 WEDNESDAY 1) The move instruction in Simple RISC allows an immediate of x (where x < 32) bits to be moved to a register. But our register can store upto 32 bits. So how do we move a 32-bit immediate, say 0x12345678 to a register v1 9 The mov Instruction in Simple Risc treats a 16 bit immediate as a signed number. When it is transferred to a register which is 32 bit, an automatic sign entension happens. i.e A register stores the content of the immediate in the later 16 bits and the sign in the first 16 bits. To move a 32-bit immediate, say 0x12345678 to a register r1, we use u and h. je movu: 16 bit immediate as unsigned number movh: leftshift 16 bit immediately by 16 positions 1.e mouh 80, 0x 1234. addu vo, 0x5678.

Day 192-173 Wk-28
THURSDAY ◀ 144

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2) Role of the flag register is to store the result Of the last comparison.

(mp instruction—

flag.E, flag.GT represents r1-72.

0,1 represents $r_1 > r_2$.

1,0 represents $r_1 = r_2$.

0,0 represents $r_2 > r_1$.

12 No. Flage are unnecessary registers. Cimp is a very Common operation. Flag registers gives a way to store the result of the last cmp without using a register visible to the programmer.

14 In-an if-else statement or in a condition on loop we use value at the flag register. So, they are not unlessary.

they can be removed because their functionality can be implemented by using other registers.