Course Info Discussion Wiki **Progress Discussion Guidelines Exploring Engineering** Courseware Resources **Syllabus** How to Use Jade Help **BR INSTRUCTION**

- The ALU is not used for this instruction.

EXPLANATION

If BEN = 0 in the first state after Instruction Decode, the FSM returns to the first state of Instruction Fetch. If BEN = 1, the 0.5/0.5/0.015 (0.5/0.5/0.015).

FSM passes to the second state for one cycle before returning to the first state of Instruction Fetch.

The PC has already been incremented during Instruction Fetch and therefore should not be updated again when BEN = 0.

When BEN = 1, the target address is formed by adding the sign-extended immediate value to the PC, and then loaded into the PC register.

The ALU is only used for operate instructions (ADD, AND, and NOT).

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