

EE3450 Hw2 - Question 5 (2.22)

總分 6/6 ?

Chapter 2 : Instructions: Language of the Computer

0分, 共0分

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Question 5 (2.22)

6分, 共6分

Suppose the program counter (PC) is set to "0x80000000"(range of "jump-and-link (jal)" is 2×2^{20} byte; range of "branch if equal (beq)" is 2×2^{12} byte

✓ 1. [2.10] What range of addresses can be reached using the RISC-V "jump-and-link (jal)" instruction? (In other words, what is the set of possible values for the PC after the jump instruction execute) *

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[0x7FFF0000, 0x800FFFFF]

[0x7FF00000, 0x800FFFFE] ✓

[0x7FFFF000, 0x80000FFE]

[0x7FFFF000, 0x80001000]

✓ 2. [2.10] What range of addresses can be reached using the RISC-V "branch if equal (beq)" instruction? (In other words, what is the set of possible values for the PC after the branch instruction execute) *

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[0x7FF00000, 0x80100000]

[0x7FF00000, 0x800FFFFE]

[0x7FFFFFF01, 0x80000FFF]

[0x7FFF000, 0x80000FFE] ✓

這份表單是在 清華大學 中建立。