CS M151B HW2 Junhong Wang (504941113)

2.24

It's not possible to reach 0x4000 0000 from

0x 2000 0000 with jump instruction because the

fur thest it can go is 0x2 FFF FFFC (PC = PC (26 bits address))

It's not possible to reach 0x4000 0000 from

0x 2000 0000 with beg instruction because the

clasest it can go is 0x 2002 0000. (PC = PC + (16 bits signed))

## 2.26.1

$$4 \pm 1 = 10$$

$$4 \pm 1 = -1$$

$$4 \pm 2 = 20$$

## 2.26.3

Assume NEN.

1

2.46.1

$$CPIOLD = \frac{5}{9} \cdot 1 + \frac{3}{9} \cdot 10 + \frac{1}{9} \cdot 3 = \frac{38}{9}$$

. Thus it's not a good design choice because

the execution time is larger than before.