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Started on Friday, 1 April 2022, 2:50 PM

State Finished

Completed on Friday, 1 April 2022, 2:54 PM

Time taken 4 mins 44 secs

Marks 3.00/4.00

Grade 7.50 out of 10.00 (75%)

Question 1

Complete

Mark 1.00 out of 1.00

A branch-prediction cache that stores the predicted address for the next instruction after a branch is called a

- ☐ a. **Data cache**
- ☒ b. **branch-target cache**
- ☐ c. None of the mentioned
- ☐ d. **Memory cache**

Question **2**

Complete

Mark 0.00 out of 1.00

Code:**DIV.D F0,F2,F4****ADD.D F6,F0,F8****S.D F6,0(R1)****SUB.D F8,F10,F14****MUL.D F6,F10,F8****How many name-dependencies are available in the given code?**

- ☒ a. 4
- ☐ b. 3
- ☐ c. 2
- ☐ d. 1

Question **3**

Complete

Mark 1.00 out of 1.00

Branch predictors that use the behavior of other branches to make a prediction are called?

- ☐ a. multi-level predictors
- ☐ b. non-correlation predictors
- ☒ c. correlating predictors
- ☐ d. one-level predictor

Question 4

Complete

Mark 1.00 out of 1.00

Probability of branch in buffer, but actually not taken is 0.09 and probability of branch not in buffer, but actually taken is 0.10. then find the Branch penalty

- ☐ a. 0.32
- ☐ b. 0.48
- ☒ c. 0.38
- ☐ d. 0.18

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