

Blank Quiz

Total points 2/10

Quiz-ILP-2021

The respondent's email (**510519109.abhirup@students.iiests.ac.in**) was recorded on submission of this form.

✗ The following category of superscalarprocessors is never considered 0/2

- ☒ Out-of-order issue in-order-completion superscalar computer
- ☒ Out-of-order issue out-of-order-completion superscalar computer ✗
- ☐ In-order issue out-of-order-completion superscalar computer
- ☐ In-order issue in-order-completion superscalar computer

✗ Let sequence of values loaded to variable x in different time steps is - 1, 2, 3, 4, 1, 2, 3, 1, 2, 3, 4. Considering speculation starts after second time step, the number of misspeculations in stride value prediction for x is 0/2

- ☐ 3
- ☒ 4 ✗
- ☐ 1
- ☐ 2



✓ Let sequence of values for a variable x is - b b c a a b b c d a a. The predicted value for x, in the 1st order Context-based value predictor, is 2/2

- ☐ c
- ☐ b
- ☒ a
- ☐ d



✗ CPI of a superscalar superpipelined processor with instruction issue rate $m = 3$ and degree of superpipelining $n = 2$ is 0/2

- ☐ 3/2
- ☒ 2/3
- ☒ 1/6
- ☒ 6



✗ In the loop: for $i = 1$ to 100 with increment 2 do { $A[i] = A[i] * B[i] \dots\dots(1);$
 $B[i+1] = C[i] * D[i] \dots\dots(2)$ }, 0/2

- ☐ There is a loop-carried dependence from (2) and (1) and from (1) to (2)
- ☒ There is no loop-carried dependence
- ☒ There is a loop-carried dependence from (1) and (2)
- ☐ There is a loop-carried dependence from (2) and (1)



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