

2102-COL216 Quiz 2

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TOTAL POINTS

13.5 / 20

QUESTION 1

1 Processor Performance 10 / 10

! + 2 pts Correct percentage of instructions executed in the benchmark

Part (a)

! + 2 pts Correctly identifying penalty reduction

! + 1 pts Correct Effective CPI

! + 1 pts Correct Speedup

ff + 0 pts Incorrect/Unattempted

Part (b)

! + 2 pts Correctly calculating overall average branch penalty

! + 1 pts Correct Effective CPI

! + 1 pts Correct speedup

ff + 1 pts Correct Idea, but wrong/incomplete calculation

ff + 0 pts Incorrect/Unattempted

ff + 0 pts Incorrect/Unattempted

QUESTION 2

2 Miss Penalty 3.5 / 10

ff + 0 pts Unattempted

ff + 0 pts Wrong

! + 2 pts Finding memory transfer times

ff + 1 pts Case-A: WB policy (read miss time)

ff + 1 pts Case-A: WB policy (write miss time)

ff + 1 pts Case-A: WTWA policy (read miss time)

! + 1 pts Case-A: WTWA policy (write miss time)

ff + 1 pts Case-A: WTNWA policy (read miss time)

! + 1 pts Case-A: WTNWA policy (write miss time)

ff + 2 pts Case-B (WB, WTWA, WTNWA)

- 0.5 Point adjustment

Partially incorrect answers (-1)

