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COSC 201

Lab 9

Time for ArraySum in a single cycle CPU

74 instructions

74\*800 = 59,200

59.2 ns

ArraySumP1 in a five-stage pipeline

152 instructions

152\*200\*5 = 152,000

152 ns

ArraySumP2 in a five-stage pipeline

123 instructions

123\*200\*5 = 123,000

123 ns

ArraySumP3 in a five-stage pipeline

92 instructions

92\*200\*5 = 92,000

92 ns

ArraySumD1 in a five-stage pipeline

Doesn’t run

ArraySum D2 in a five-stage pipeline

Doesn’t run