# Formulas

Performance = 1 / Execution Time

Performance\_x / Performance\_y = Execution\_time\_y / execution\_time\_x = n

Clock Cycles = Instruction Count \* Cycles per Instruction

CPU Time = CPU Clock Cycles \* Clock Cycle Time

= CPU Clock Cycles / Clock Rate

= Instruction Count \* CPI \* Clock Cycle Time

= Instructions / Program \* Clock Cycles / Instruction \* Seconds / Clock Cycles