

Conceptual Background

Computer Performance Simulation allows you to estimate the time it will take for a computer program to run on a processor (e.g., a CPU), given the following parameters:

- (a) the number of instructions in the program [called *Instruction Count* or *IC*],
 - (b) the number of CPU clock cycles per instruction [called *Cycles Per Instruction* or *CPI*], and
 - (c) the number of seconds per clock cycle (the reciprocal of the *CPU Clock Frequency*).
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