LE7.1

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LE7.1.1: Latency and Throughput

2 points possible (ungraded)

A synchronous pipeline has a latency of L and throughput of T. If we find a way to double the clock frequency by doubling the number of pipeline stages, what revised latency and throughput can we expect? Please provide your response as a function of L and T. (Note that multiplication must be explicitly stated, e.g., L*8, not 8L).

Latency:

L

L

Throughput:

2·T

Sorry, couldn't parse formula

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? Why do I get "Invalid input: T not permitted in answer"? 11

The system doesn't accept the correct 2*T as an answer for the new throughput.