

# Review: Multi Cycle Processor

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## Advantages

- Better MIPS and smaller clock period (higher clock frequency)
- Hence, better performance than Single Cycle processor

## Disadvantages

- Higher CPI than single cycle processor

## Pipelining: Want better Performance

- want small CPI (close to 1) with high MIPS and short clock period (high clock frequency)
- CPU time = instruction count x CPI x clock cycle time