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Title: ***More Science per Joule: Bottleneck Computing***

Abstract:

With energy consumption becoming a key factor in high performance scientific computing, it is more important than ever to be aware of all relevant performance bottlenecks. Using benchmarks and real-world case studies we show the strong connection between performance engineering, bottleneck-aware computing, and energy consumption, and demonstrate the need for a holistic view on all of them to get maximum science out of every joule and euro spent.