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The Role of the HEP Benchmark Suite in Measuring Performance to Support Sustainability in High-Energy Physics Computing

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The HEP Benchmark Suite provides a comprehensive framework for evaluating the performance and power consumption of computing resources within the Worldwide LHC Computing Grid (WLCG), supporting its sustainability objectives. This presentation will outline the toolkit's capabilities and present examples where the suite has successfully identified opportunities to improve both energy efficiency and overall computational efficiency within the WLCG. Finally, we will discuss potential future enhancements to expand the suite's capacity to further support WLCG's sustainability initiatives.

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