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HEPiX Benchmarking Working Group Report

The Benchmarking Working Group (WG) has been actively advancing the HEP Benchmark Suite to meet the evolving needs of the Worldwide LHC Computing Grid (WLCG). This presentation will provide a comprehensive status report on the WG's activities, highlighting the intense efforts to enhance the suite's capabilities with a focus on performance optimization and sustainability.

In response to community feedback, the WG has developed new modules to measure server utilization metrics, including load, frequency, I/O, and power consumption, during the execution of the HEPsScore benchmark. These advancements enable a more detailed evaluation of power efficiency and computational performance of servers, aligning with WLCG's sustainability goals.

Furthermore, updates on the integration of GPU workloads into the benchmark suite will be presented. This significant development expands the functionality of HEPsScore, increases the catalogue of available workloads, and enhances the suite's applicability to modern and diverse computing environments.

Desired slot length

Speaker release

Yes

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