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HEPiX Benchmarking Working Group Report

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HEPScore is a new CPU benchmark created by the HEPiX Benchmark Working Group to replace the HEP-SPEC06 benchmark that is currently used by the WLCG for procurement, computing resource pledges and performance studies.

The development of the new benchmark, based on HEP applications or workloads, has involved many contributions from software developers, data analysts, experts of the experiments, representatives of several WLCG computing centres, as well as the WLCG HEPscore Deployment Task Force.

The HEPscore benchmark has been used to show that HEP applications running on servers with ARM processors are as performant as servers with Intel and AMD processors but consume 30% less power.

This observation is a key reason for the recent work by the HEPiX Benchmark Working Group to write a plug-in for the HEPscore Suite so that the power consumption of the server can be measured during the running of the HEPscore benchmark.

In this presentation, we will report on the progress of the power measurement plug-in and present some early results.

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