Analysis Tools for the HPCC Benchmarking Suite

This project focuses on exploring graphical tools to assist high-end computing (HEC) system evaluation researchers in studying benchmark results. These tools must provide various plotting capabilities for researchers to graph, examine and compare benchmark results collected from a number of HEC machines. The benchmark results are generated from the High Performance Computing Challenge (HPCC) benchmark suite. HPCC is in active use, and produces a complex set of inter-related measurement data. The relationships are not always apparent due to the number and complexity of the metrics. Effective inter-comparison requires one to consider multiple metrics and their relationships to determine whether a particular set of measured results is "good" or "bad" relative to other similar machines. This project will organize and systematically analyze the HPCC results through a spreadsheet-based prototype tool.

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