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Worker01OnJava

2 x Intel Xeon X5650 testing with a IBM 69Y4438 (-[D6E164AUS-1.22] BIOS) and Matrox MGA G200EV on CentOS Linux 7 via the Phoronix Test Suite.

Automated Executive Summary

SpectreOff had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (SpectreOff) was 1.101x the speed of the slowest (2 x Intel Xeon X5650). Second Run was 0.983x the speed of SpectreOff and 2 x Intel Xeon X5650 was 0.924x the speed of Second Run.

Test Systems:

2 x Intel Xeon X5650

Second Run

SpectreOff

Processor: 2 x Intel Xeon X5650 @ 2.66GHz (12 Cores / 24 Threads), Motherboard: IBM 69Y4438 (-[D6E164AUS-1.22] BIOS), Chipset: Intel 5520 I/O + ICH10, Memory: 8 x 8192 MB 800MT/s Samsung M393B1K70DH0-CK0, Disk: 1020GB ServeRAID M5015, Graphics: Matrox MGA G200EV, Monitor: W2442, Network: 4 x Broadcom NetXtreme II BCM5709

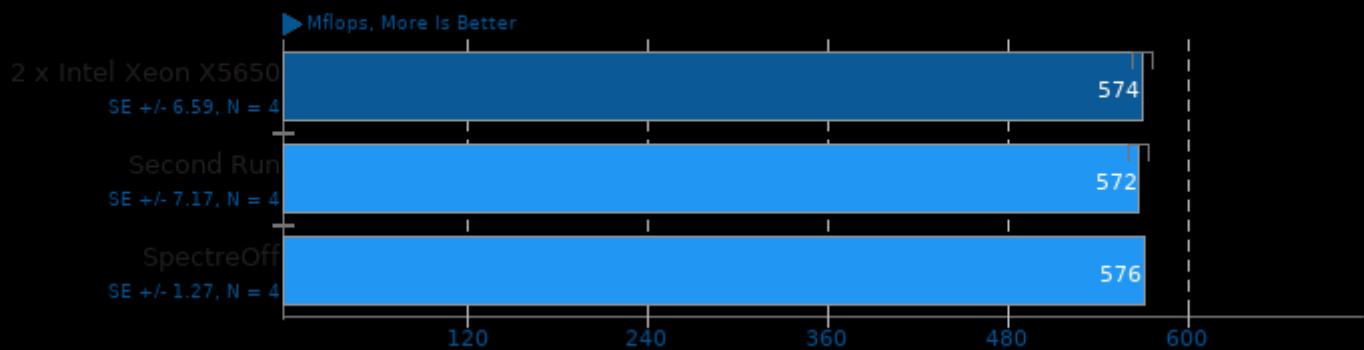
OS: CentOS Linux 7, Kernel: 3.10.0-957.12.2.el7.x86_64 (x86_64), Compiler: GCC 4.8.5 20150623, File-System: xfs, Screen Resolution: 1280x1024

Processor Notes: Scaling Governor: acpi-cpufreq conservative
 Java Notes: OpenJDK Runtime Environment (build 1.8.0_212-b04)
 Security Notes: Load fences __user pointer sanitization + PTE Inversion; VMX: vulnerable

| | 2 x Intel Xeon X5650 | Second Run | SpectreOff |
|---|----------------------|------------|------------|
| Java SciMark - FFT Performance (Mflops) | 574 | 572 | 576 |
| Normalized | 99.65% | 99.31% | 100% |
| Standard Deviation | 2.3% | 2.5% | 0.4% |
| Java SciMark - SOR Performance (Mflops) | 971 | 971 | 971 |
| Standard Deviation | 0% | 0% | 0% |
| Java SciMark - C.P (Mflops) | 1157 | 1156 | 1173 |
| Normalized | 98.64% | 98.55% | 100% |
| Standard Deviation | 0.3% | 0.3% | 0.1% |
| Java SciMark - M.C.P (Mflops) | 541 | 541 | 543 |
| Normalized | 99.63% | 99.63% | 100% |
| Standard Deviation | 0.6% | 0.5% | 1.1% |
| DaCapo Benchmark - H2 (msec) | 7565 | 7540 | 7317 |
| Normalized | 96.72% | 97.04% | 100% |
| Standard Deviation | 3.8% | 2% | 2.9% |
| DaCapo Benchmark - Jython (msec) | 8871 | 8639 | 8542 |
| Normalized | 96.29% | 98.88% | 100% |
| Standard Deviation | 0.9% | 0.5% | 2% |
| DaCapo Benchmark - Eclipse (msec) | 34412 | 33923 | 32373 |
| Normalized | 94.07% | 95.43% | 100% |
| Standard Deviation | 1.1% | 0.8% | 2.2% |
| DaCapo Benchmark - Tradesoap (msec) | 21285 | 8810 | 9075 |
| Normalized | 41.39% | 100% | 97.08% |
| Standard Deviation | 234.3% | 1.8% | 2.9% |
| DaCapo Benchmark - Tradebeans (msec) | 8875 | 8683 | 8851 |
| Normalized | 97.84% | 100% | 98.1% |
| Standard Deviation | 1.4% | 2.9% | 1.2% |
| Bork File Encrypter - F.E.T (sec) | 15.43 | 15.34 | 14.30 |
| Normalized | 92.68% | 93.22% | 100% |
| Standard Deviation | 0.1% | 0.1% | 2.6% |
| Java Gradle Build - Reactor (sec) | 31.66 | 30.82 | 28.72 |
| Normalized | 90.71% | 93.19% | 100% |
| Standard Deviation | 12.7% | 0.7% | 25.9% |
| Sunflow Rendering System - G.I.I.S (sec) | 2.30 | 2.37 | 2.37 |
| Normalized | 100% | 97.05% | 97.05% |
| Standard Deviation | 1.6% | 4.8% | 1.8% |

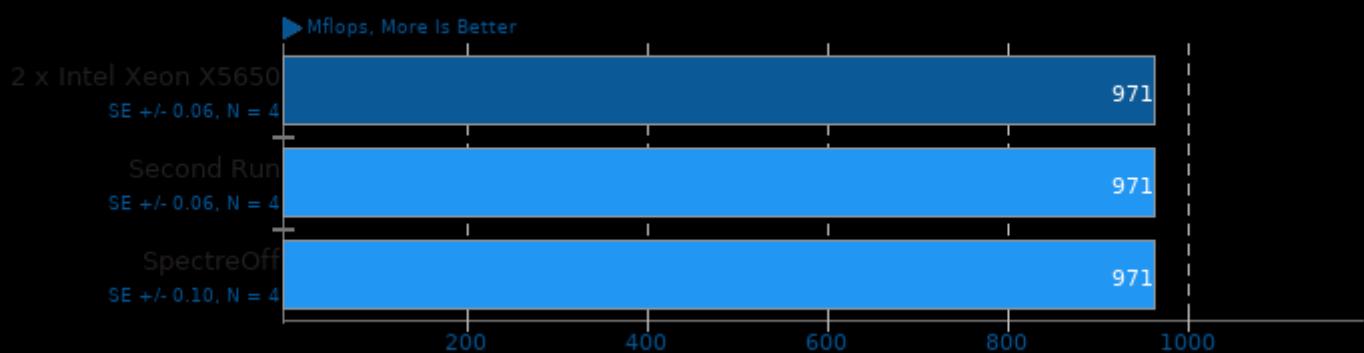
Java SciMark 2.0

FFT Performance



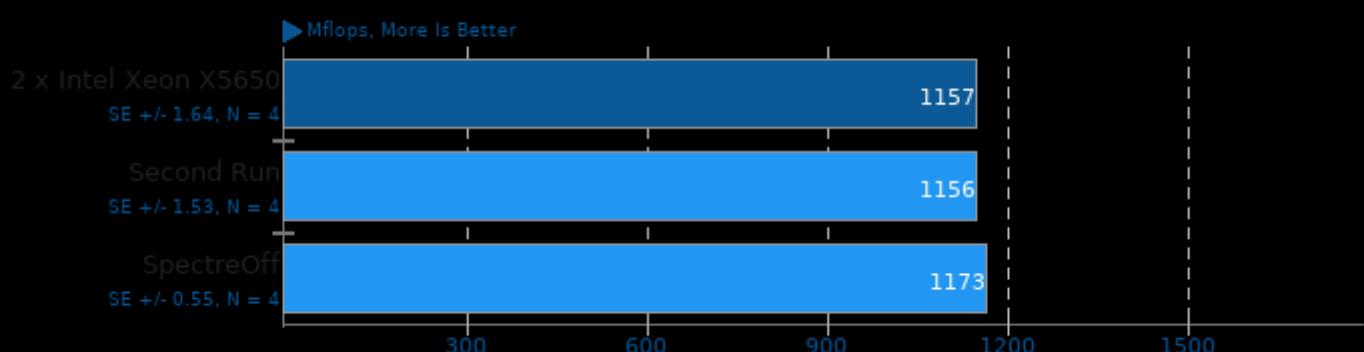
Java SciMark 2.0

SOR Performance



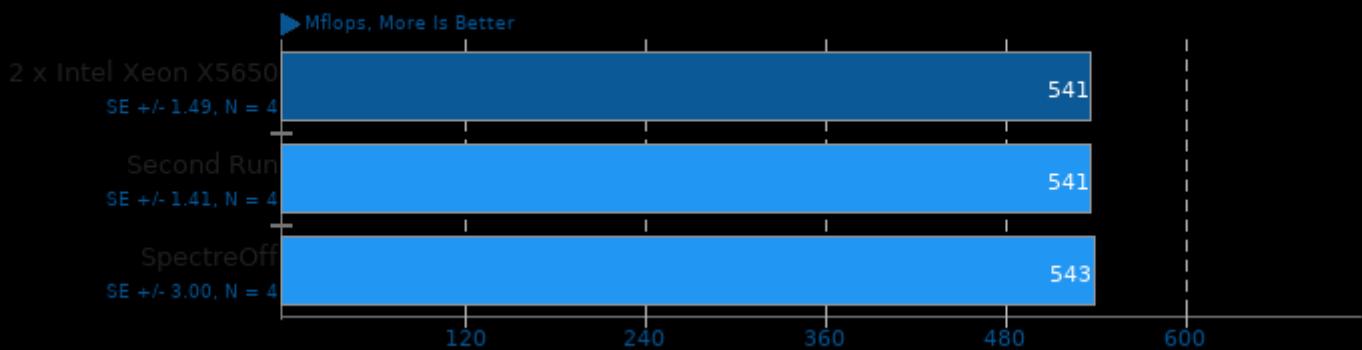
Java SciMark 2.0

Composite Performance



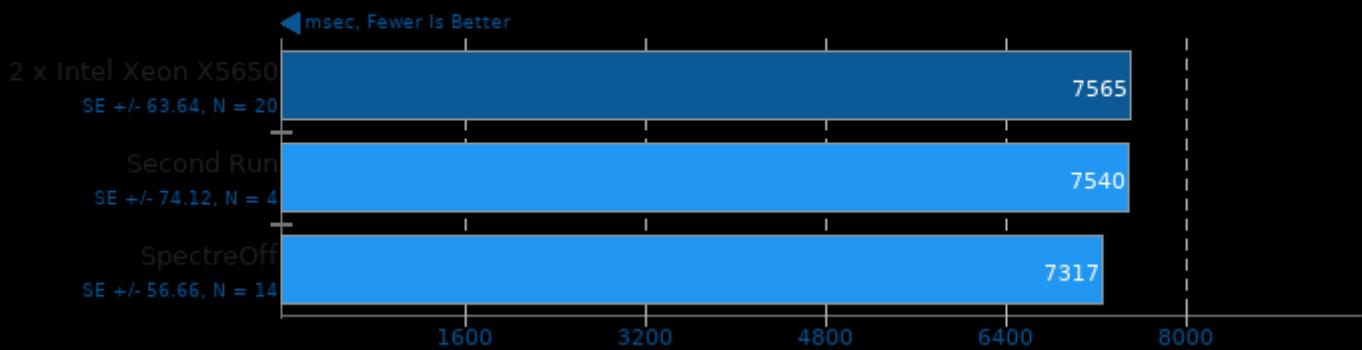
Java SciMark 2.0

Monte Carlo Performance



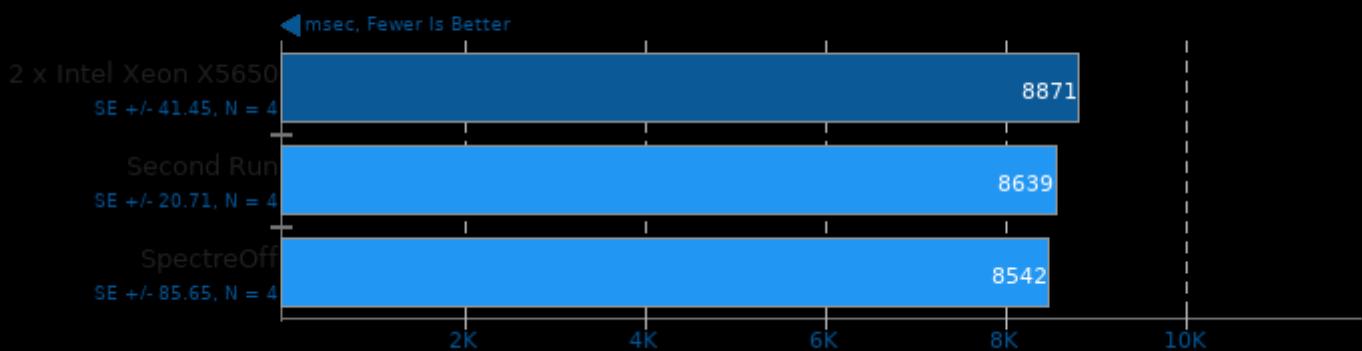
DaCapo Benchmark 9.12-MR1

Java Test: H2



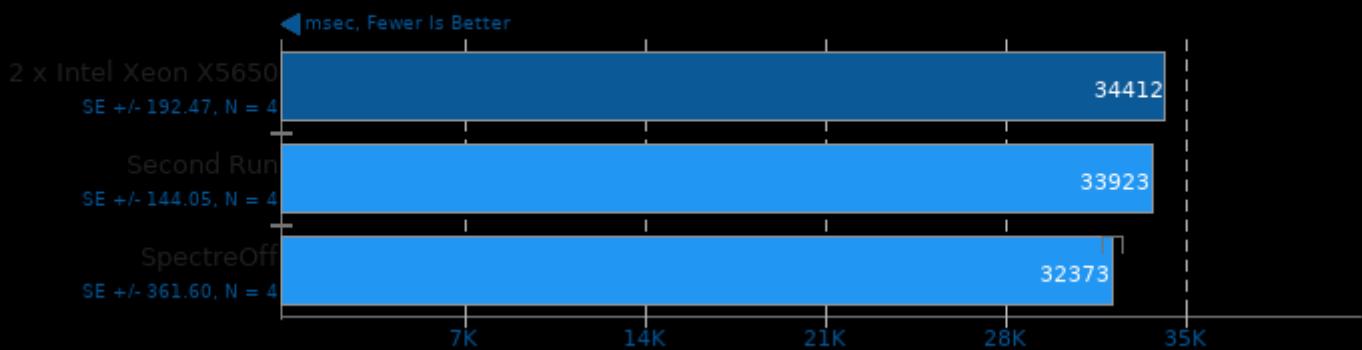
DaCapo Benchmark 9.12-MR1

Java Test: Jython



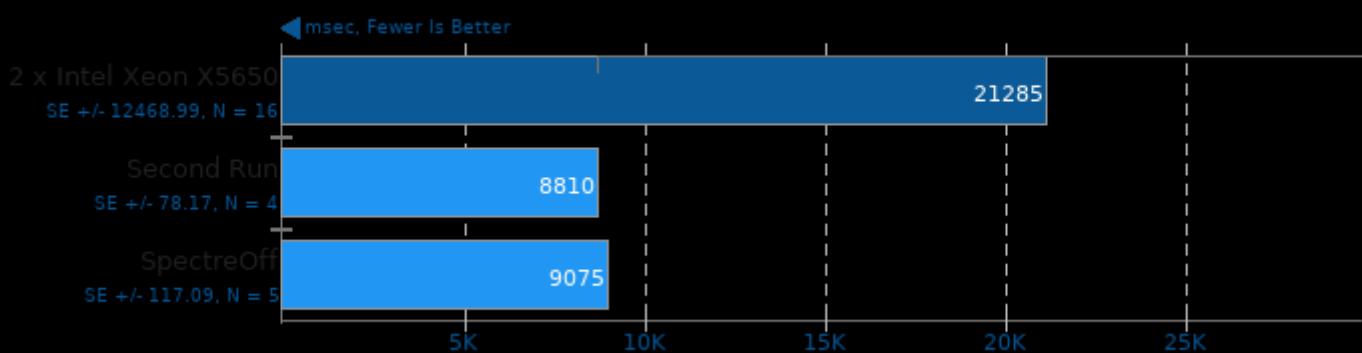
DaCapo Benchmark 9.12-MR1

Java Test: Eclipse



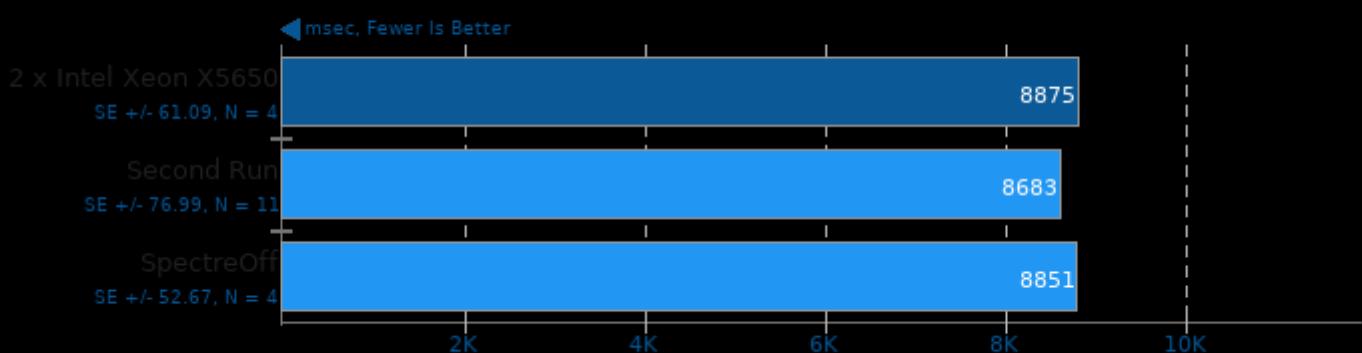
DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap



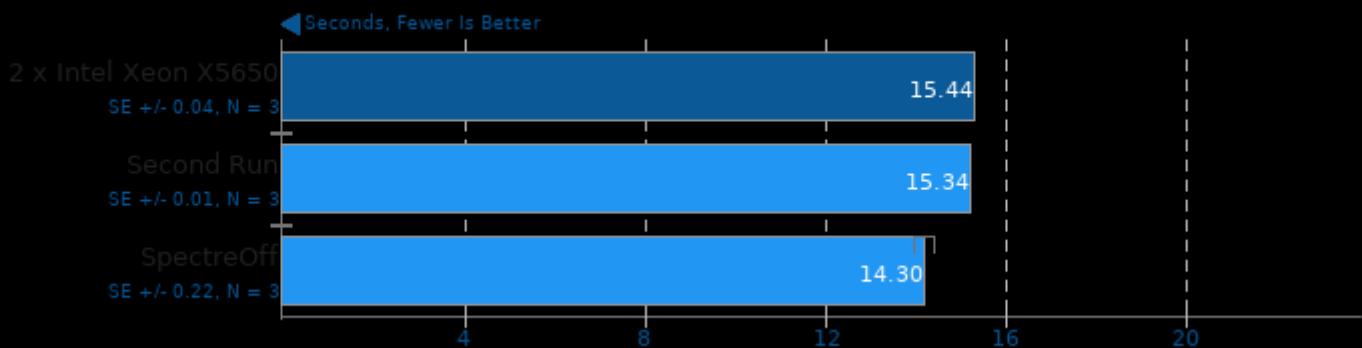
DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



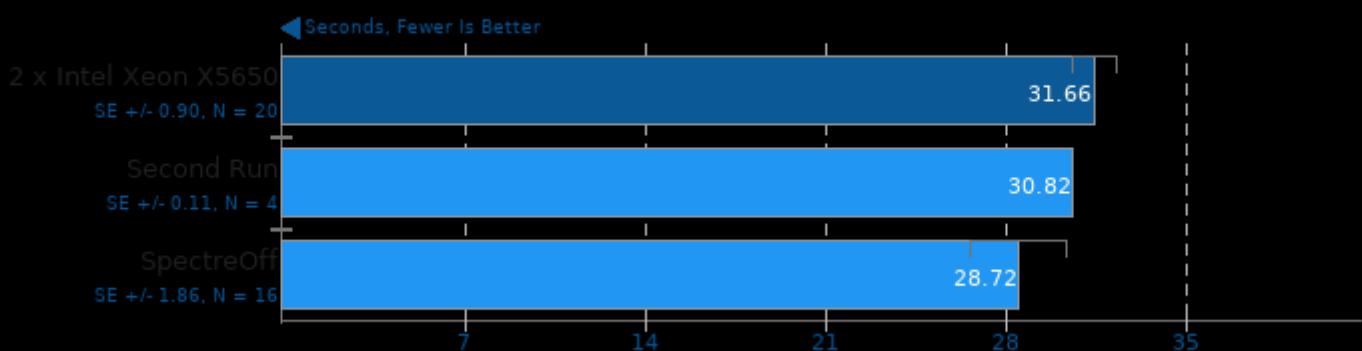
Bork File Encrypter 1.4

File Encryption Time



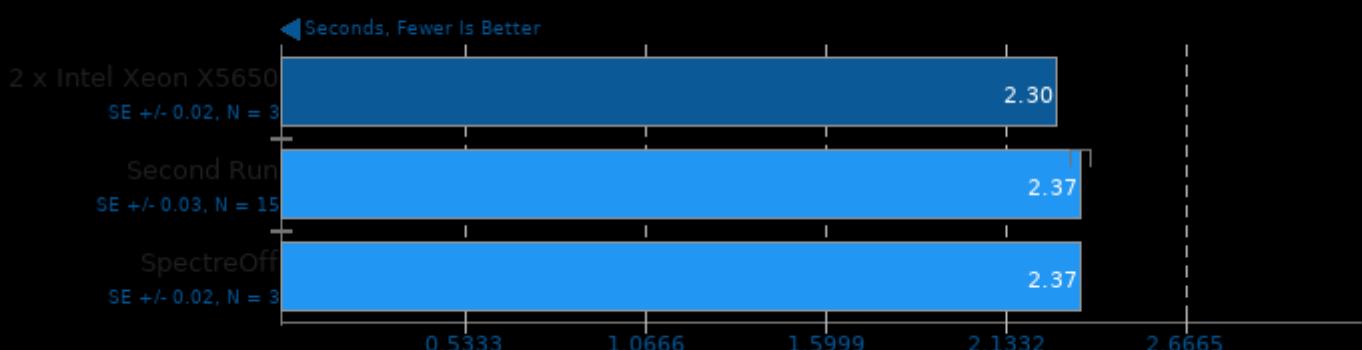
Java Gradle Build 1.0

Gradle Build: Reactor

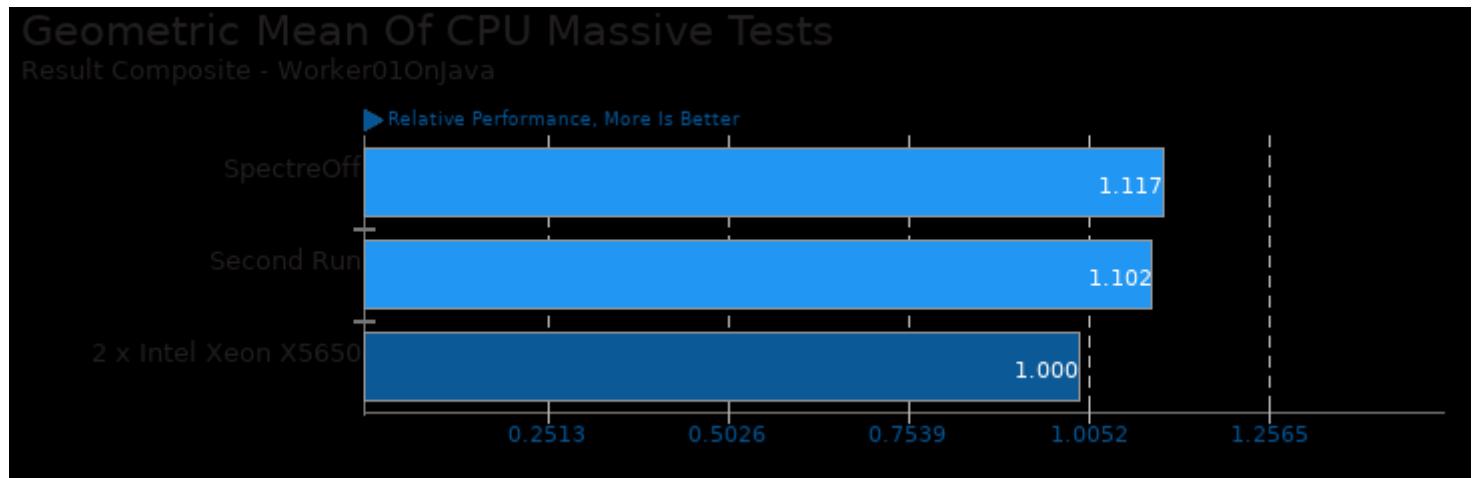


Sunflow Rendering System 0.07.2

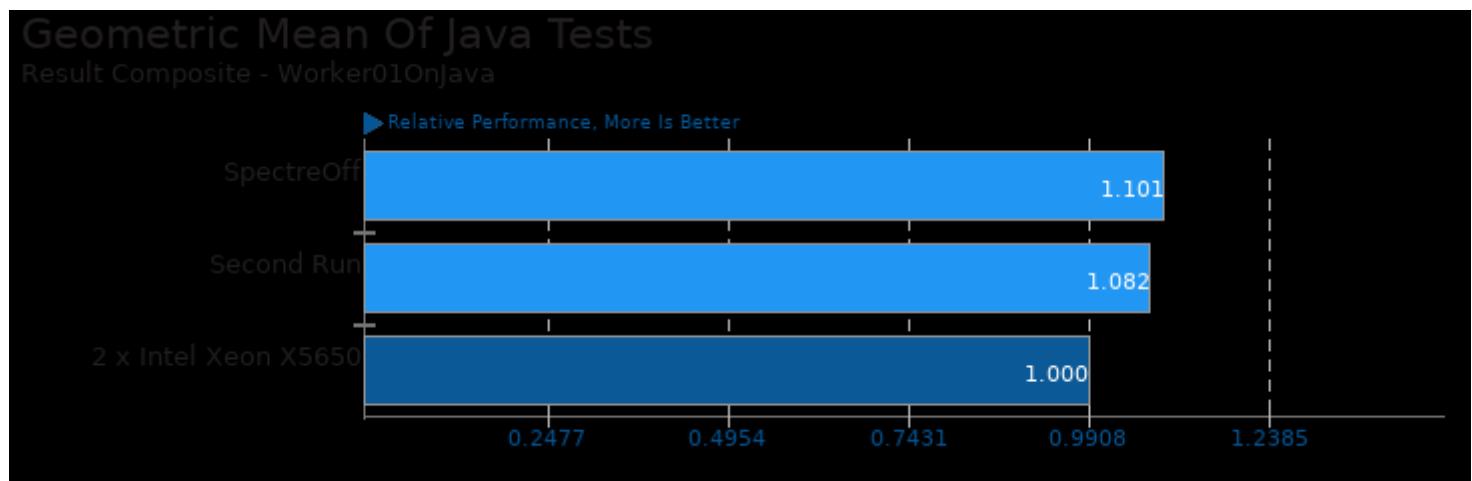
Global Illumination + Image Synthesis



These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/dacapobench, pts/java-scimark2 and pts/java-gradle-perf



Geometric mean based upon tests: pts/sunflow, pts/bork, pts/java-scimark2, pts/dacapobench and pts/java-gradle-perf



Geometric mean based upon tests: pts/java-scimark2 and pts/bork

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:11.