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# Superfast screening example (timtaw test suite).

Example results using the timtaw/screening-superfast test suite.

**Automated Executive Summary**

*Xps 9550 Arch rolling Superfast had the most wins, coming in first place for 60% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Xps 9550 Arch rolling Superfast) was 7.328x the speed of the slowest (Samsung RV515 (Ubuntu 14.04) [Superfast]). Chenbro RM217 (Ubuntu 14.04) [Superfast] was 0.379x the speed of Xps 9550 Arch rolling Superfast, Chenbro RM217 (Ubuntu 14.04) RAID1 [Superfast] was 0.931x the speed of Chenbro RM217 (Ubuntu 14.04) [Superfast], Samsung X22 (Ubuntu 14.04) [Superfast] was 0.979x the speed of Chenbro RM217 (Ubuntu 14.04) RAID1 [Superfast], Samsung RV515 (Ubuntu 14.04) [Superfast] was 0.395x the speed of Samsung X22 (Ubuntu 14.04) [Superfast].*

## Test Systems:

### Chenbro RM217 (Ubuntu 14.04) RAID1 [Superfast]

Processor: Intel Xeon L5420 @ 2.50GHz (4 Cores), Motherboard: Supermicro X7DB8, Memory: 32768MB, Disk: 2 x 500GB Western Digital WD5002ABYS-0, Graphics: radeondrmfb

OS: Ubuntu 14.04, Kernel: 3.13.0-125-generic (x86_64), Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 1024x768

Environment Notes: _PMT_DEBUG_LEVEL=0
Disk Notes: DEADLINE / data=ordered,nosuid,relatime,rw

## Chenbro RM217 (Ubuntu 14.04) [Superfast]

Processor: Intel Xeon L5420 @ 2.50GHz (4 Cores), Motherboard: Supermicro X7DB8, Memory: 32768MB, Disk: 2 x 500GB Western Digital WD5002ABYS-0, Graphics: radeondrmfb, Monitor: DELL E173FP

OS: Ubuntu 14.04, Kernel: 3.13.0-123-generic (x86_64), Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 1280x1024

Environment Notes: _PMT_DEBUG_LEVEL=0
Disk Notes: DEADLINE / data=ordered,nosuid,relatime,rw

## Samsung RV515 (Ubuntu 14.04) [Superfast]

Processor: AMD E-350 @ 1.60GHz (2 Cores), Motherboard: SAMSUNG RV415/RV415, Memory: 6144MB, Disk: 320GB Seagate ST9320423AS, Graphics: radeondrmfb (800/800MHz), Audio: Realtek ALC269VB

OS: Ubuntu 14.04, Kernel: 3.13.0-123-generic (x86_64), Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 1366x768

Environment Notes: _PMT_DEBUG_LEVEL=0
Disk Notes: DEADLINE / data=ordered,nosuid,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

## Samsung X22 (Ubuntu 14.04) [Superfast]

Processor: Intel Core 2 Duo T7500 @ 2.20GHz (2 Cores), Motherboard: SAMSUNG SX22S, Memory: 2048MB, Disk: 200GB Hitachi HTS54252, Graphics: radeondrmfb (450/500MHz), Audio: Realtek ALC262

OS: Ubuntu 14.04, Kernel: 3.13.0-125-generic (x86_64), Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 1280x800

Environment Notes: _PMT_DEBUG_LEVEL=0
Disk Notes: DEADLINE / data=ordered,nosuid,relatime,rw
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

## Xps 9550 Arch rolling Superfast

Processor: Intel Core i7-6700HQ @ 3.50GHz (4 Cores / 8 Threads), Motherboard: Dell 0N7TVV (1.9.0 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 16384MB, Disk: PC300 NVMe SK hynix 512GB, Graphics: Intel HD 530 2GB (1050MHz), Audio: Realtek ALC3266, Network: Qualcomm Atheros QCA6174 802.11ac

OS: Arch rolling, Kernel: 5.2.11-arch1-1-ARCH (x86_64), Desktop: LXDE, Display Server: X Server 1.20.5, Display Driver: intel 2.99.917, Compiler: GCC 9.1.0, File-System: ext4, Screen Resolution: 1920x1080

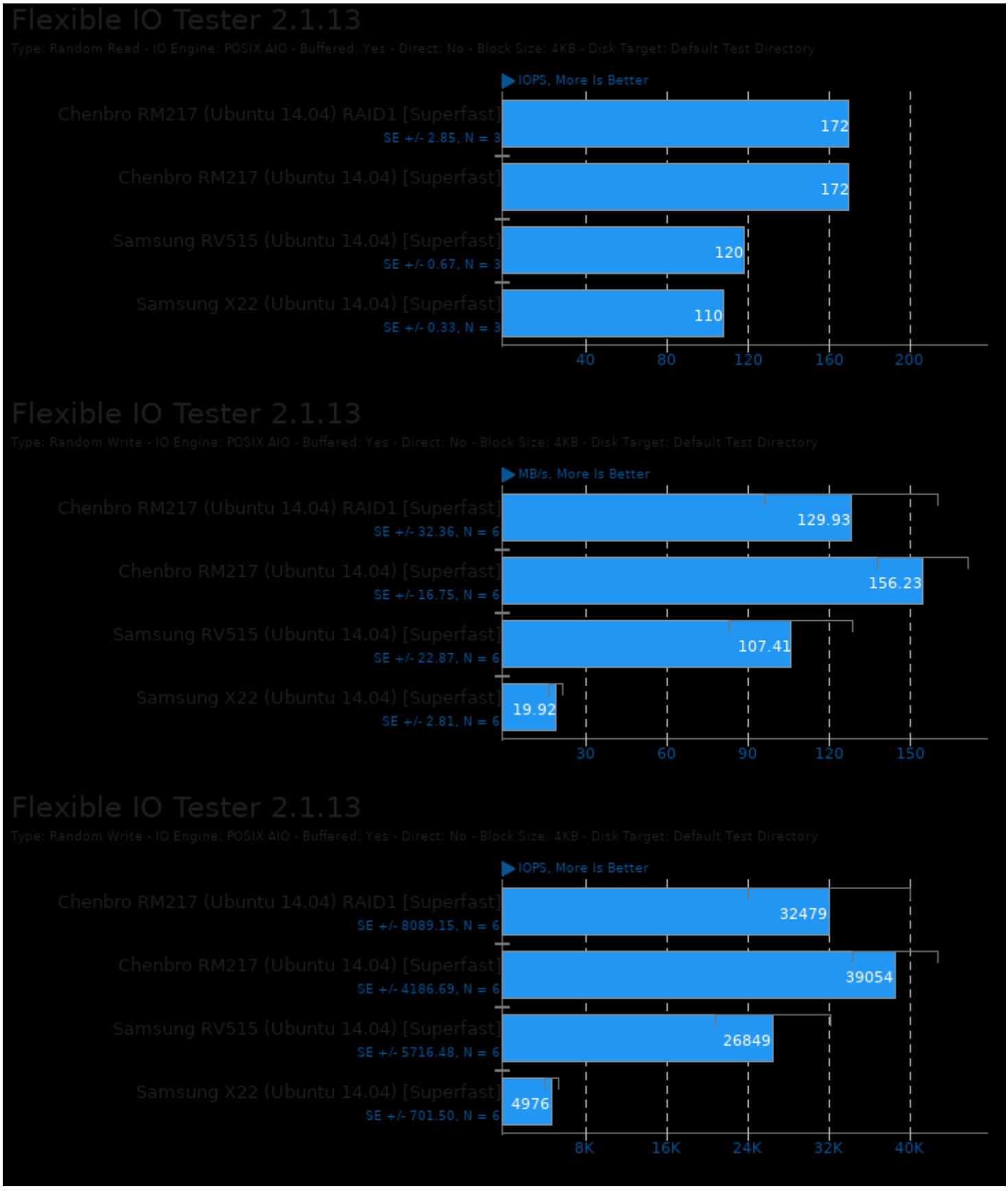
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty

# Superfast screening example (timtaw test suite).

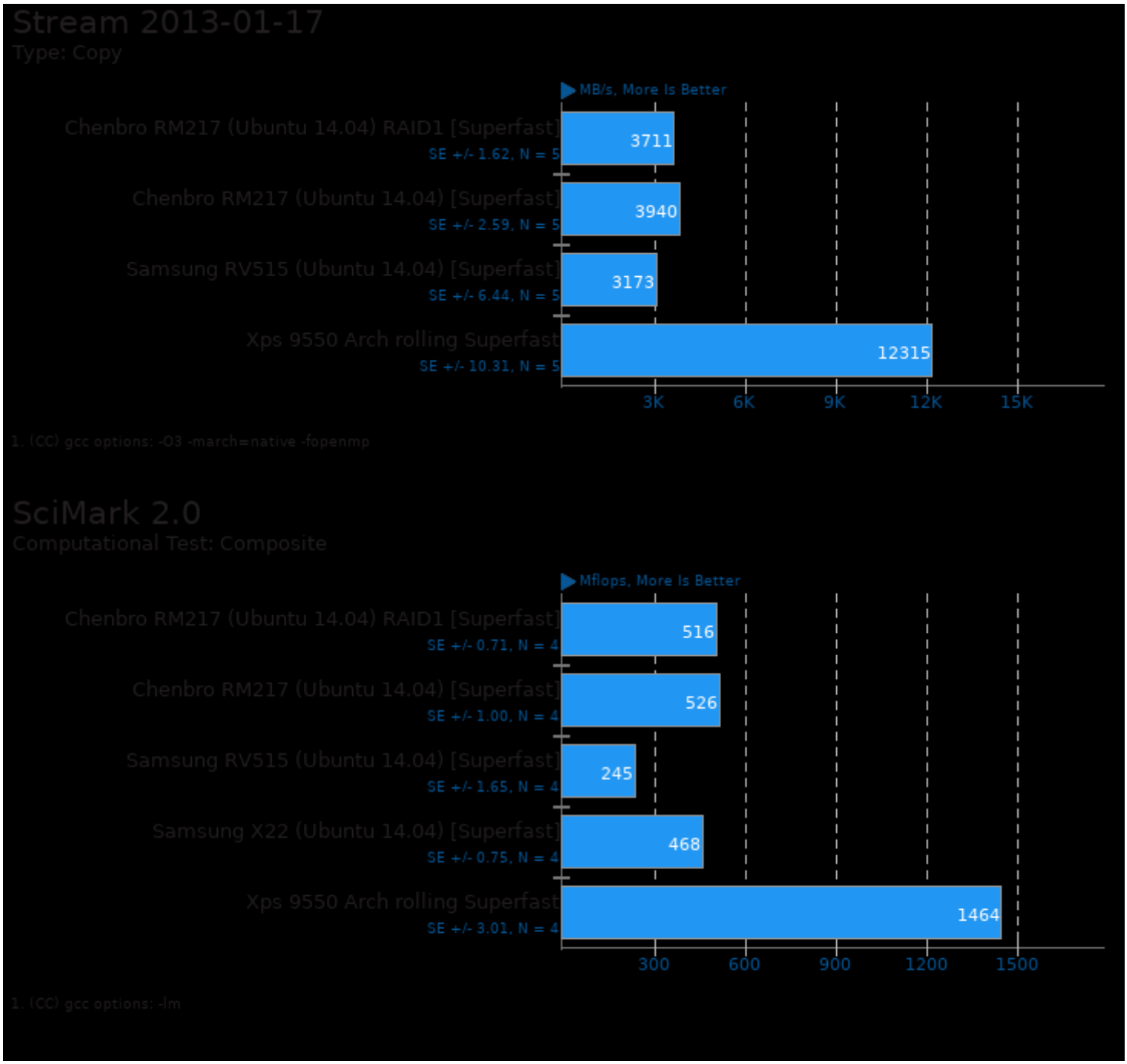
--enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Disk Notes: NONE / relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

| | Chenbro RM217 (Ubuntu 14.04) RAID1 [Superfast] | Chenbro RM217 (Ubuntu 14.04) [Superfast] | Samsung RV515 (Ubuntu 14.04) [Superfast] | Samsung X22 (Ubuntu 14.04) [Superfast] | Xps 9550 Arch rolling Superfast |
|---|---|---|---|---|---|
| **Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (IOPS)** | 172 | 172 | 120 | 110 | |
| **Normalized** | 100% | 100% | 69.77% | 63.95% | |
| **Standard Deviation** | 2.9% | | 1% | 0.5% | |
| **Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (MB/s)** | 129.93 | 156.23 | 107.41 | 19.92 | |
| **Normalized** | 83.17% | 100% | 68.75% | 12.75% | |
| **Standard Deviation** | 61% | 26.3% | 52.1% | 34.5% | |
| **Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (IOPS)** | 32479 | 39054 | 26849 | 4976 | |
| **Normalized** | 83.16% | 100% | 68.75% | 12.74% | |
| **Standard Deviation** | 61% | 26.3% | 52.2% | 34.5% | |
| **Stream - Copy (MB/s)** | 3711 | 3940 | 3173 | | 12315 |
| **Normalized** | 30.13% | 31.99% | 25.77% | | 100% |
| **Standard Deviation** | 0.1% | 0.1% | 0.5% | | 0.2% |
| **SciMark - Composite (Mflops)** | 516 | 526 | 245 | 468 | 1464 |
| **Normalized** | 35.25% | 35.93% | 16.73% | 31.97% | 100% |
| **Standard Deviation** | 0.3% | 0.4% | 1.3% | 0.3% | 0.4% |
| **Himeno Benchmark - P.P.S (MFLOPS)** | 754 | 853 | 238 | 797 | 2139 |
| **Normalized** | 35.25% | 39.88% | 11.13% | 37.26% | 100% |
| **Standard Deviation** | 1.6% | 1.7% | 1.2% | 0.6% | 0.2% |

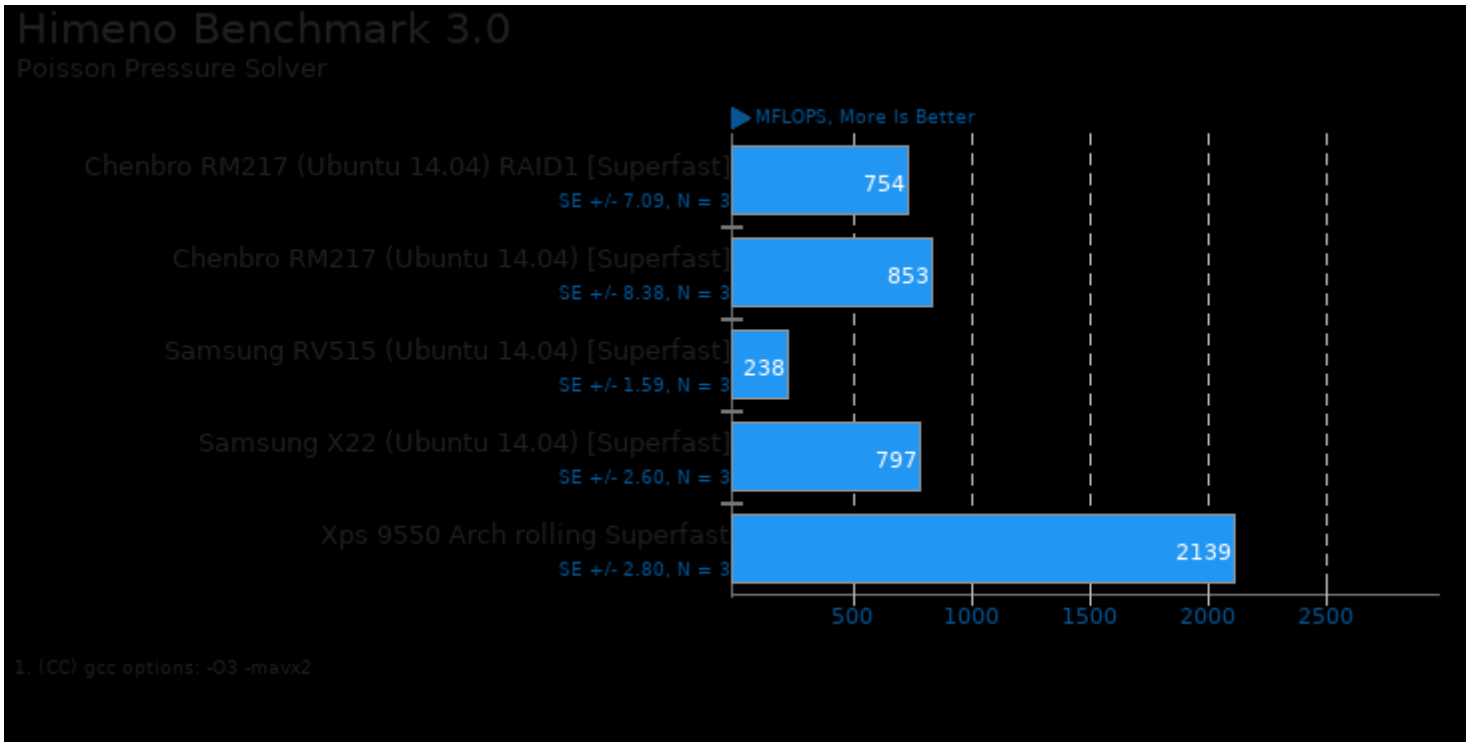
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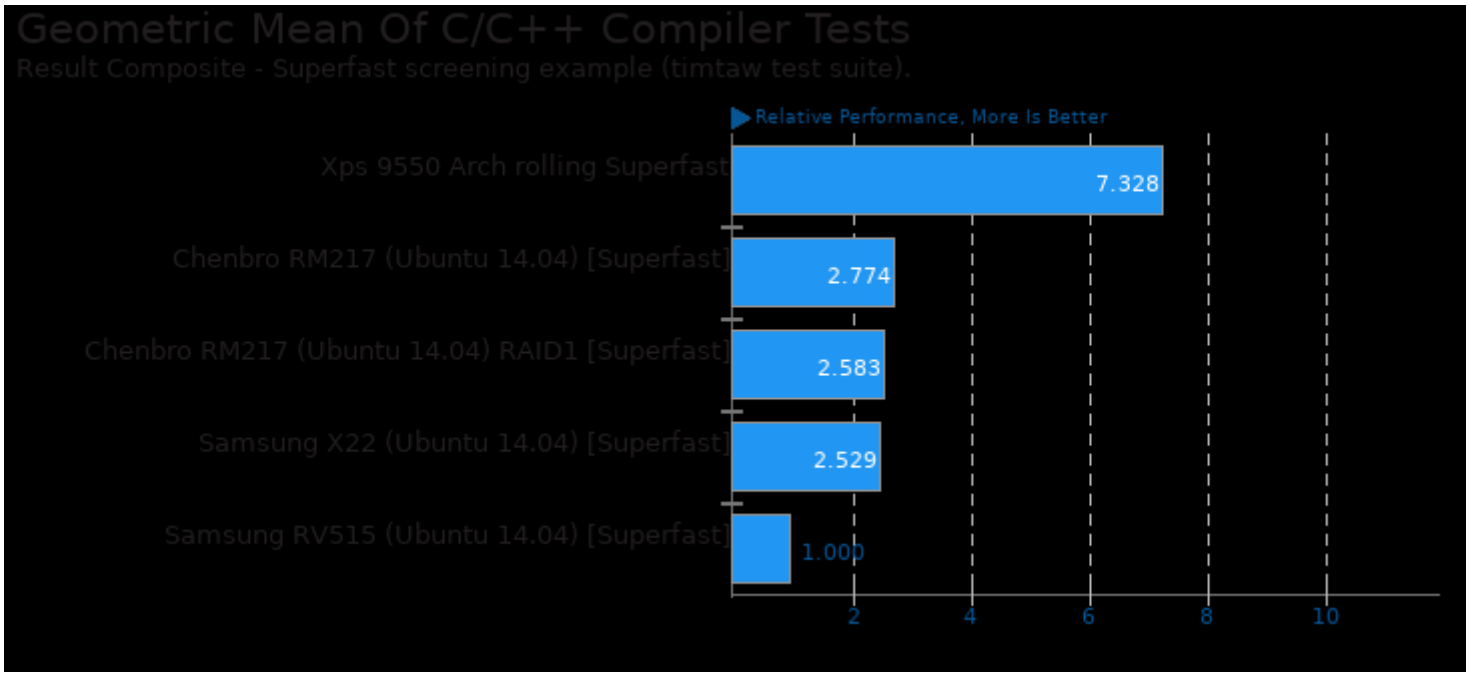


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These geometric means are based upon test groupings / test suites for this result file.




Geometric mean based upon tests: pts/scimark2 and pts/himeno

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 04:48.*