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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

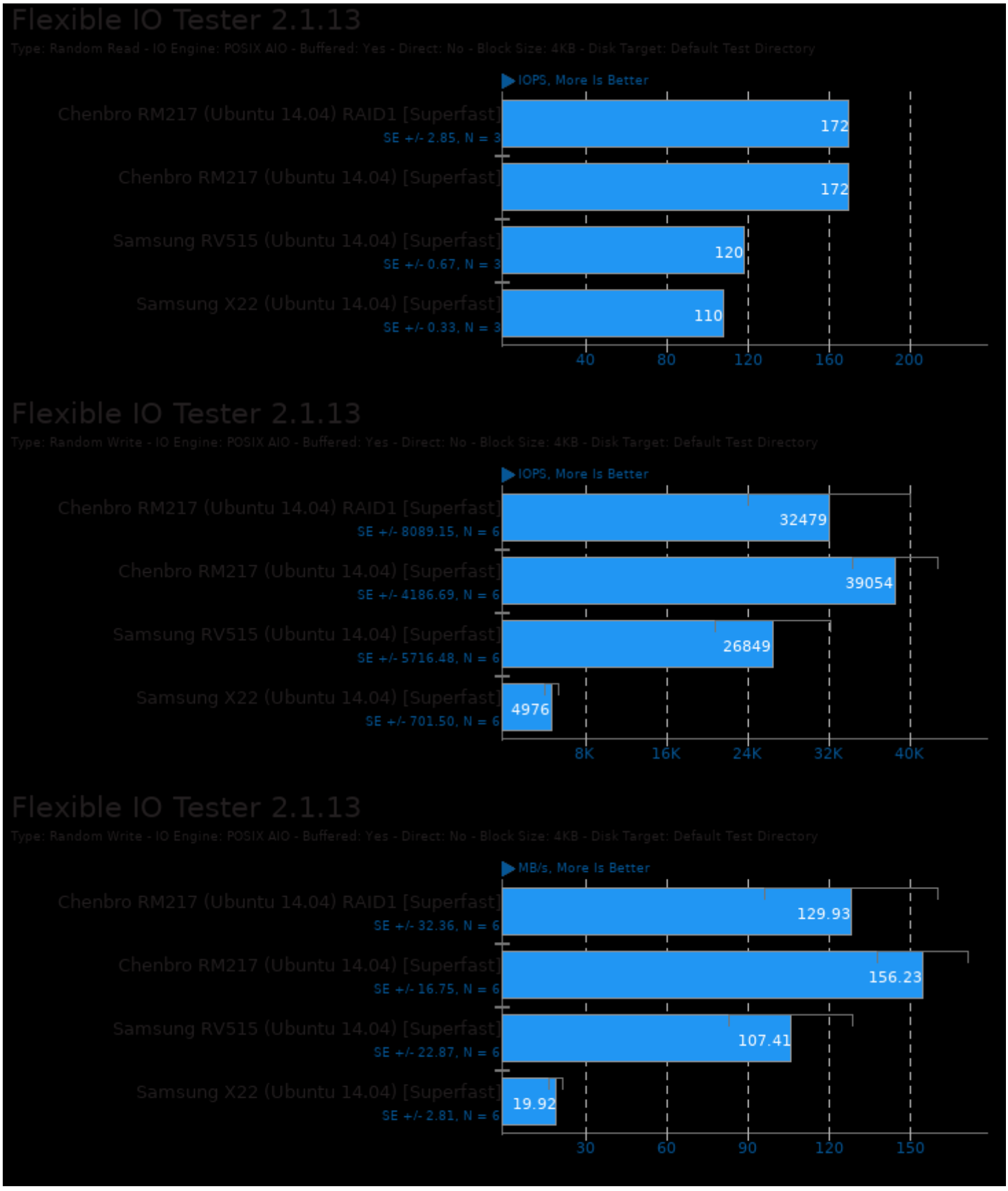
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty

Superfast screening example (timtaw test suite).

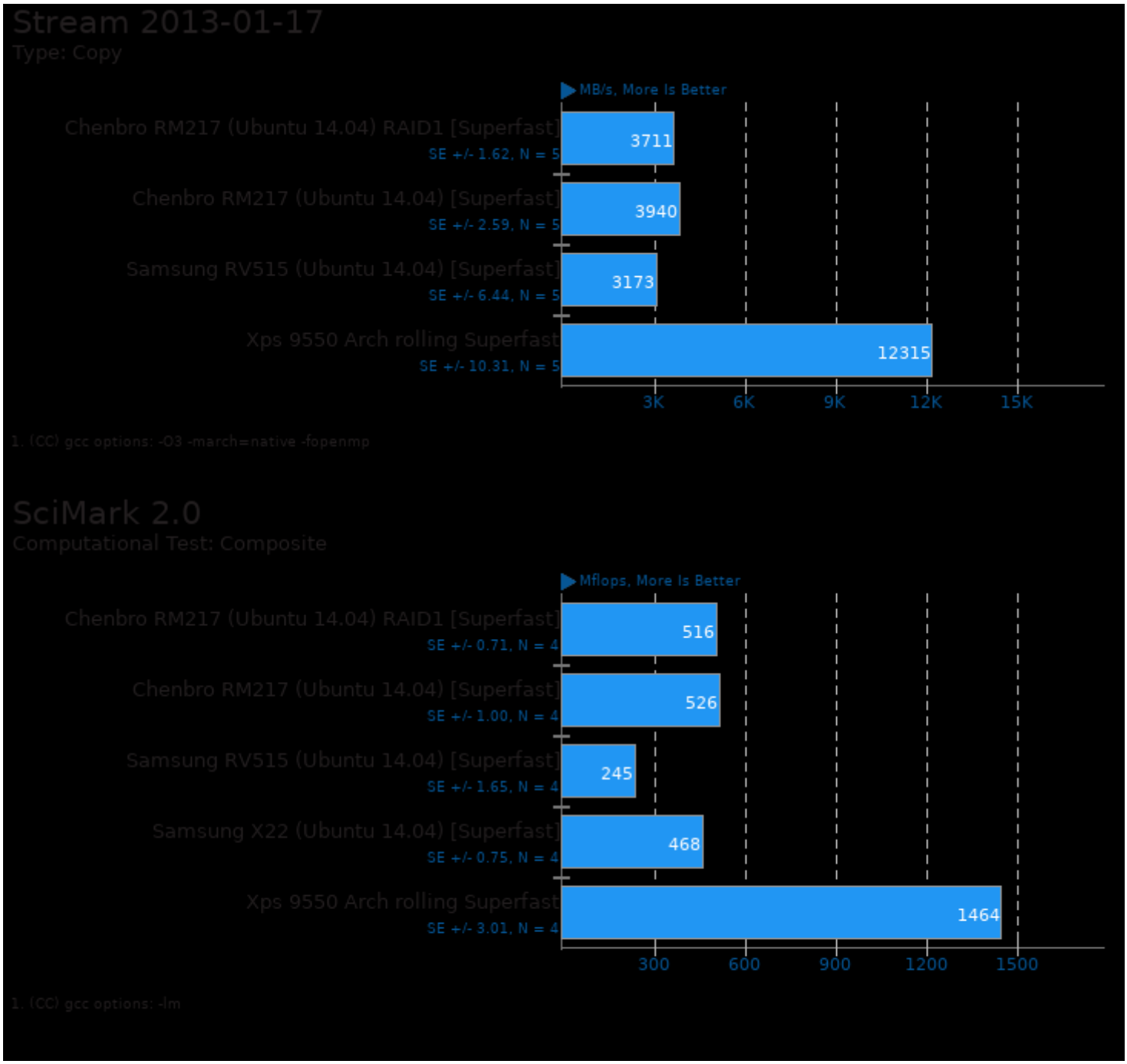
--enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Disk Notes: NONE / relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
Security 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 (IOPS)	32479	39054	26849	4976	
Normalized	83.16%	100%	68.75%	12.74%	
Standard Deviation	61%	26.3%	52.2%	34.5%	
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%	
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%

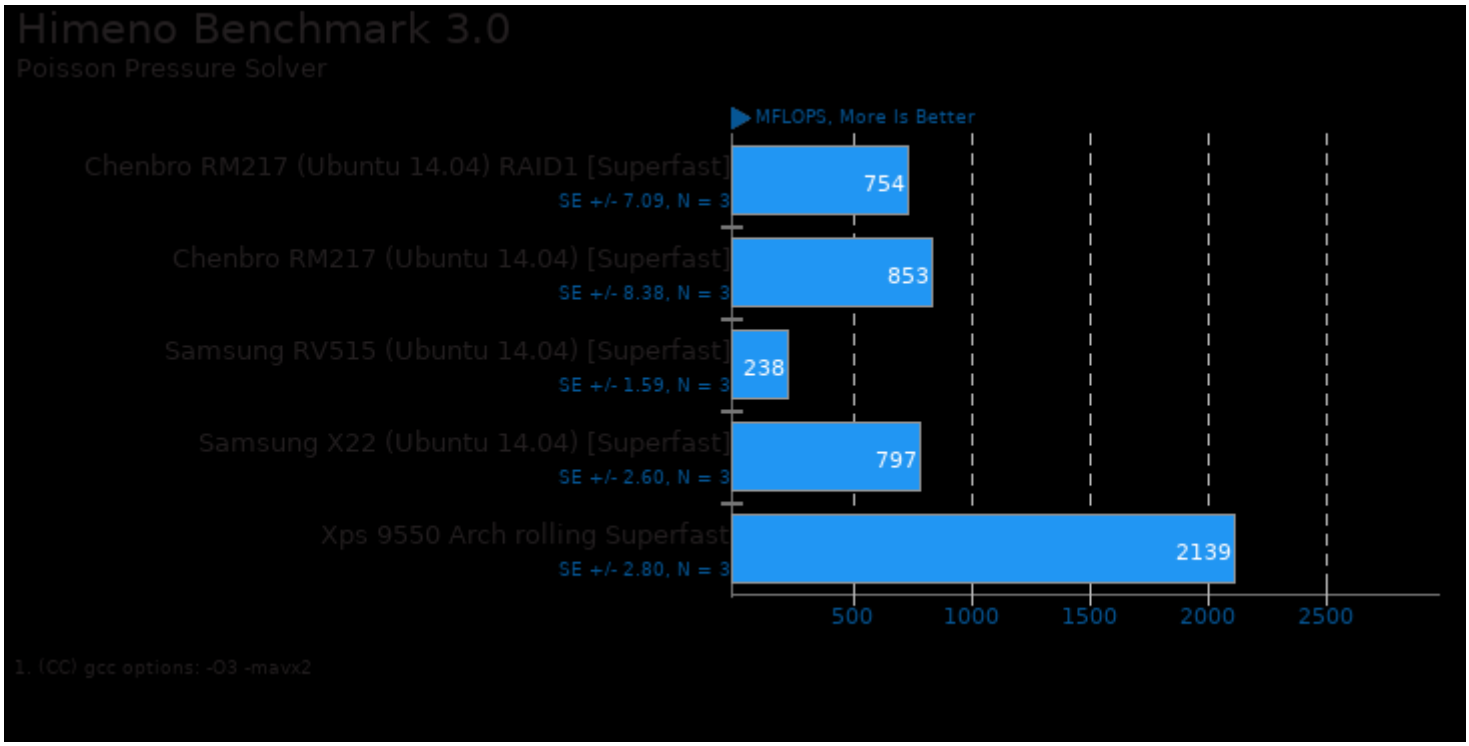
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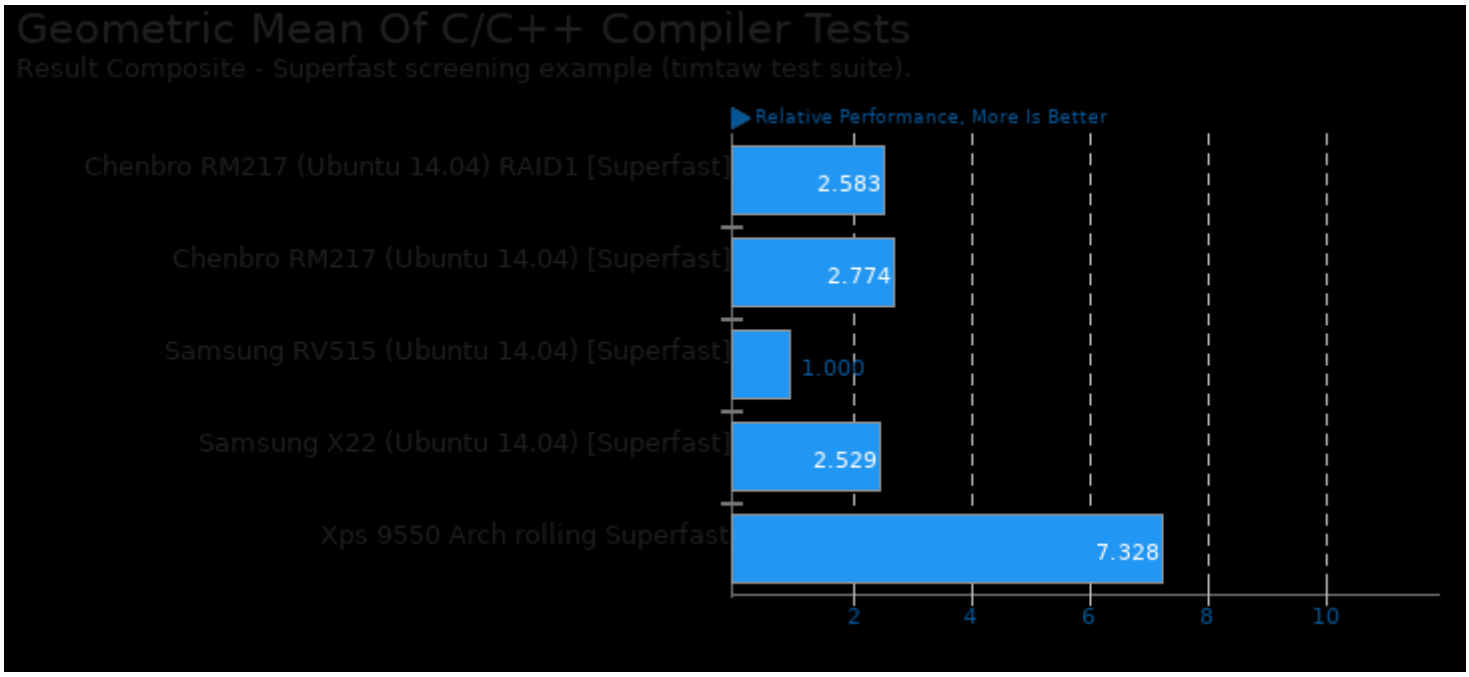


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These geometric means are based upon test groupings / test suites for this result file.



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 13:02.