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20210903-8g

ARMv8 Cortex-A72 testing on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

5.14.0-caculeapplied-raspi had the most wins, coming in first place for 39% of the tests.

Based on the geometric mean of all complete results, the fastest (5.14.0-caculeapplied-raspi) was 1.64x the speed of the slowest (5.14.0-caculesl-raspi-2). 5.14.0-cacule-raspi was 1x the speed of 5.14.0-caculeapplied-raspi, 5.14.0-caculepure-raspi was 0.988x the speed of 5.14.0-cacule-raspi, 5.14.0-cfs-raspi was 0.967x the speed of 5.14.0-caculepure-raspi, 5.14.0-caculesl-raspi was 0.982x the speed of 5.14.0-cfs-raspi, 5.14.0-caculesl-raspi-4 was 0.666x the speed of 5.14.0-caculesl-raspi, 5.14.0-caculesl-raspi-3 was 1x the speed of 5.14.0-caculesl-raspi-4, 5.14.0-caculesl-raspi-2 was 0.976x the speed of 5.14.0-caculesl-raspi-3.

The results with the greatest spread from best to worst included:

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Write) at 4.216x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency) at 4.214x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 1 - Mode: Read Write) at 4.192x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency) at 4.187x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency) at 3.744x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 100 - Mode: Read Write) at 3.741x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency) at 3.24x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 250 - Mode: Read Write) at 3.239x

ebizzy at 1.208x

PostgreSQL pgbench (Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency) at 1.178x.

Test Systems:

5.14.0-cfs-raspi

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5

OS: Ubuntu 20.04, Kernel: 5.14.0-cfs-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v

Processor Notes: Scaling Governor: cpufreq-dt performance

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

5.14.0-cacule-raspi

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5

OS: Ubuntu 20.04, Kernel: 5.14.0-cacule-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v

Processor Notes: Scaling Governor: cpufreq-dt performance

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

5.14.0-caculepure-raspi

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5

OS: Ubuntu 20.04, Kernel: 5.14.0-caculepure-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v

Processor Notes: Scaling Governor: cpufreq-dt performance

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

5.14.0-caculeapplied-raspi

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5

OS: Ubuntu 20.04, Kernel: 5.14.0-caculeapplied-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

5.14.0-caculesl-raspi

5.14.0-caculesl-raspi-2

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5, Graphics: vc4, Monitor: Dell U4919DW

OS: Ubuntu 20.04, Kernel: 5.14.0-caculesl-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 5120x1440

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

5.14.0-caculesl-raspi-3

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5, Graphics: vc4

OS: Ubuntu 20.04, Kernel: 5.14.0-caculesl-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 5120x1440

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

5.14.0-caculesl-raspi-4

Processor: ARMv8 Cortex-A72 @ 1.50GHz (4 Cores), Motherboard: Raspberry Pi 4 Model B Rev 1.4, Memory: 8GB, Disk: 128GB ED2S5

OS: Ubuntu 20.04, Kernel: 5.14.0-caculesl-raspi (aarch64), Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug

--enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu
--program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt performance
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of
__user pointer sanitization + spectre_v2: Vulnerable + srbs: Not affected + tsx_async_abort: Not affected

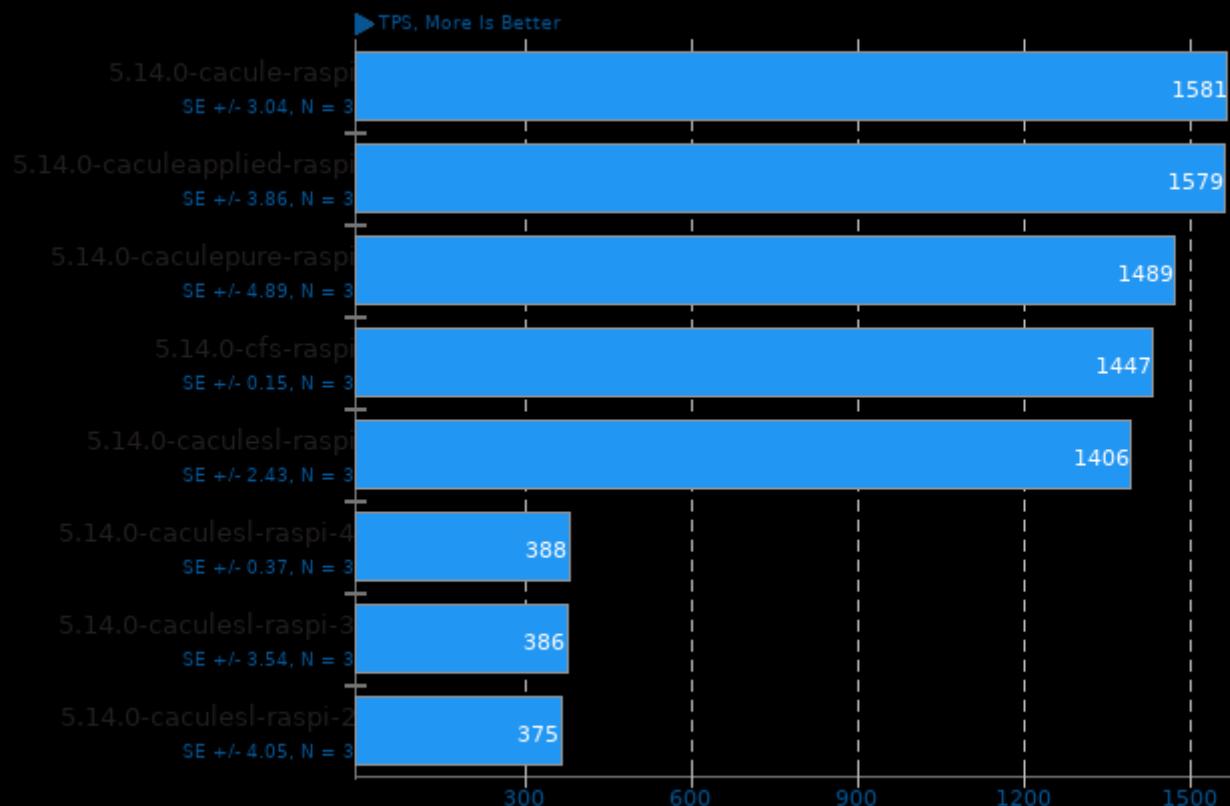
	5.14.0-cfs-r aspi	5.14.0-cac ule-raspi	5.14.0-cac ulepure-ra spi	5.14.0-cac uleapplied- raspi	5.14.0-cac ulesl-raspi	5.14.0-cac ulesl-raspi- 2	5.14.0-cac ulesl-raspi- 3	5.14.0-cac ulesl-raspi- 4
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)	1447	1581	1489	1579	1406	375	386	388
Normalized	91.52%	100%	94.18%	99.87%	88.93%	23.72%	24.41%	24.54%
Standard Deviation	0%	0.3%	0.6%	0.4%	0.3%	1.9%	1.6%	0.2%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)	34.563	31.630	33.573	31.663	35.557	133.303	129.521	128.800
Normalized	91.51%	100%	94.21%	99.9%	88.96%	23.73%	24.42%	24.56%
Standard Deviation	0%	0.3%	0.6%	0.4%	0.3%	1.8%	1.6%	0.2%
PostgreSQL pgbench - 100 - 1 - Read Write (TPS)	853	846	872	850	823	210	208	211
Normalized	97.82%	97.02%	100%	97.48%	94.38%	24.08%	23.85%	24.2%
Standard Deviation	0.9%	1%	1%	1.4%	0.4%	0.4%	0.3%	0.8%
PostgreSQL pgbench - 100 - 1 - Read Write - Average Latency (ms)	1.172	1.182	1.147	1.177	1.216	4.752	4.803	4.751
Normalized	97.87%	97.04%	100%	97.45%	94.33%	24.14%	23.88%	24.14%
Standard Deviation	0.9%	1%	1%	1.5%	0.4%	0.4%	0.3%	0.8%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency (ms)	73.350	69.562	73.697	69.273	75.340	259.325	255.667	256.215
Normalized	94.44%	99.58%	94%	100%	91.95%	26.71%	27.1%	27.04%
Standard Deviation	0.1%	0.2%	0.1%	0.2%	0.3%	2.3%	2%	1.3%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)	1363	1438	1357	1444	1328	386	391	390
Normalized	94.39%	99.58%	93.98%	100%	91.97%	26.73%	27.08%	27.01%
Standard Deviation	0.1%	0.2%	0.1%	0.2%	0.3%	2.3%	2%	1.3%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency (ms)	207.366	203.612	215.226	203.062	211.063	656.536	653.264	657.949
Normalized	97.92%	99.73%	94.35%	100%	96.21%	30.93%	31.08%	30.86%
Standard Deviation	0.5%	0.6%	0.2%	0.5%	0.5%	2.3%	1.6%	1.5%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)	1206	1228	1162	1231	1185	381	383	380
Normalized	97.97%	99.76%	94.39%	100%	96.26%	30.95%	31.11%	30.87%
Standard Deviation	0.5%	0.6%	0.2%	0.5%	0.5%	2.3%	1.6%	1.5%

ebizzy (Records/s)	5980	6412	6347	5868	5309	5308	5969	5975
Normalized	93.26%	100%	98.99%	91.52%	82.8%	82.78%	93.09%	93.18%
Standard Deviation	0.2%	0%	2.4%	4.5%	0.1%	0.1%	0.2%	0.2%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)	14.721	12.538	12.722	12.496	13.640	13.578	12.661	12.803
Normalized	84.89%	99.67%	98.22%	100%	91.61%	92.03%	98.7%	97.6%
Standard Deviation	0.6%	0.4%	0.3%	0.2%	0.2%	0%	0.4%	0.2%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	6794	7977	7862	8003	7332	7366	7899	7812
Normalized	84.89%	99.68%	98.24%	100%	91.62%	92.04%	98.7%	97.61%
Standard Deviation	0.6%	0.4%	0.3%	0.2%	0.2%	0%	0.4%	0.2%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	6646	7601	7245	7635	7000	6998	7481	7412
Normalized	87.05%	99.55%	94.89%	100%	91.68%	91.66%	97.98%	97.08%
Standard Deviation	0.3%	0.2%	0.5%	0.7%	1.3%	1.2%	2.1%	2.5%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	37.621	32.894	34.509	32.748	35.723	35.735	33.435	33.750
Normalized	87.05%	99.56%	94.9%	100%	91.67%	91.64%	97.95%	97.03%
Standard Deviation	0.3%	0.2%	0.5%	0.7%	1.3%	1.3%	2.2%	2.5%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	7878	8557	8664	8600	7604	7601	8059	8099
Normalized	90.93%	98.77%	100%	99.26%	87.77%	87.73%	93.02%	93.48%
Standard Deviation	0.6%	0.4%	0.5%	0.3%	0.2%	0.4%	0.3%	0.2%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	6.348	5.844	5.772	5.814	6.576	6.578	6.206	6.175
Normalized	90.93%	98.77%	100%	99.28%	87.77%	87.75%	93.01%	93.47%
Standard Deviation	0.6%	0.4%	0.5%	0.3%	0.2%	0.4%	0.3%	0.2%
7-Zip Compression - Timed Linux Kernel C.S.T (MIPS)	3751	3734	3764	3734	3544	3565	3695	3707
Normalized	99.65%	99.2%	100%	99.2%	94.16%	94.71%	98.17%	98.49%
Standard Deviation	0.2%	0.1%	0.5%	0.3%	0.3%	0.1%	0.3%	0.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	5117	5076	5068	5096	5336	5337	5113	5093
Normalized	99.05%	99.85%	100%	99.45%	94.98%	94.96%	99.13%	99.51%
Standard Deviation	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%
PostgreSQL pgbench - 100 - 1 - Read Only (TPS)	5740	5711	5780	5736	5575	5685	5543	5655
Normalized	99.31%	98.81%	100%	99.24%	96.45%	98.36%	95.9%	97.84%
Standard Deviation	0.4%	0.4%	0.5%	1%	0.7%	0.3%	0.4%	1.2%
PostgreSQL pgbench - 100 - 1 - Read Only - Average Latency (ms)	0.174	0.175	0.173	0.174	0.180	0.176	0.180	0.177
Normalized	99.43%	98.86%	100%	99.43%	96.11%	98.3%	96.11%	97.74%
Standard Deviation	0.3%	0.3%	0.6%	0.9%	0.6%	0.3%	0.3%	1.1%

John The Ripper -	1336	1363	1363	1319	1363	1364	1363	1363
Blowfish (Real C/S)								
Normalized	97.95%	99.93%	99.93%	96.7%	99.93%	100%	99.93%	99.93%
Standard Deviation	4.3%	0%		5%	0.1%			
John The Ripper - MD5								
(Real C/S)		32297	32193	32302	32291	32317	32298	32189
Normalized	99.94%	99.62%	99.95%	99.92%	100%	99.94%	99.6%	98.94%
Standard Deviation	0.1%	0.6%	0.1%	0%	0%	0.1%	0.4%	1.8%
Primesieve - 1.P.N.G		527.007	555.502	532.913	525.899	569.292	540.726	532.649
(sec)								546.836
Normalized	99.79%	94.67%	98.68%	100%	92.38%	97.26%	98.73%	96.17%
Standard Deviation	5.5%	9.6%	6.5%	3.2%	8.4%	8.9%	6.3%	7.3%
C-Ray - Total Time -		657.532	677.649	650.027	668.022	689.154	624.684	666.794
4.1.R.P.P (sec)								
Normalized	95%	92.18%	96.1%	93.51%	90.65%	100%	93.68%	94.66%
Standard Deviation	14.5%	15.1%	8.5%	8.9%	13.3%	8.3%	14.5%	10.9%

PostgreSQL pgbench 13.0

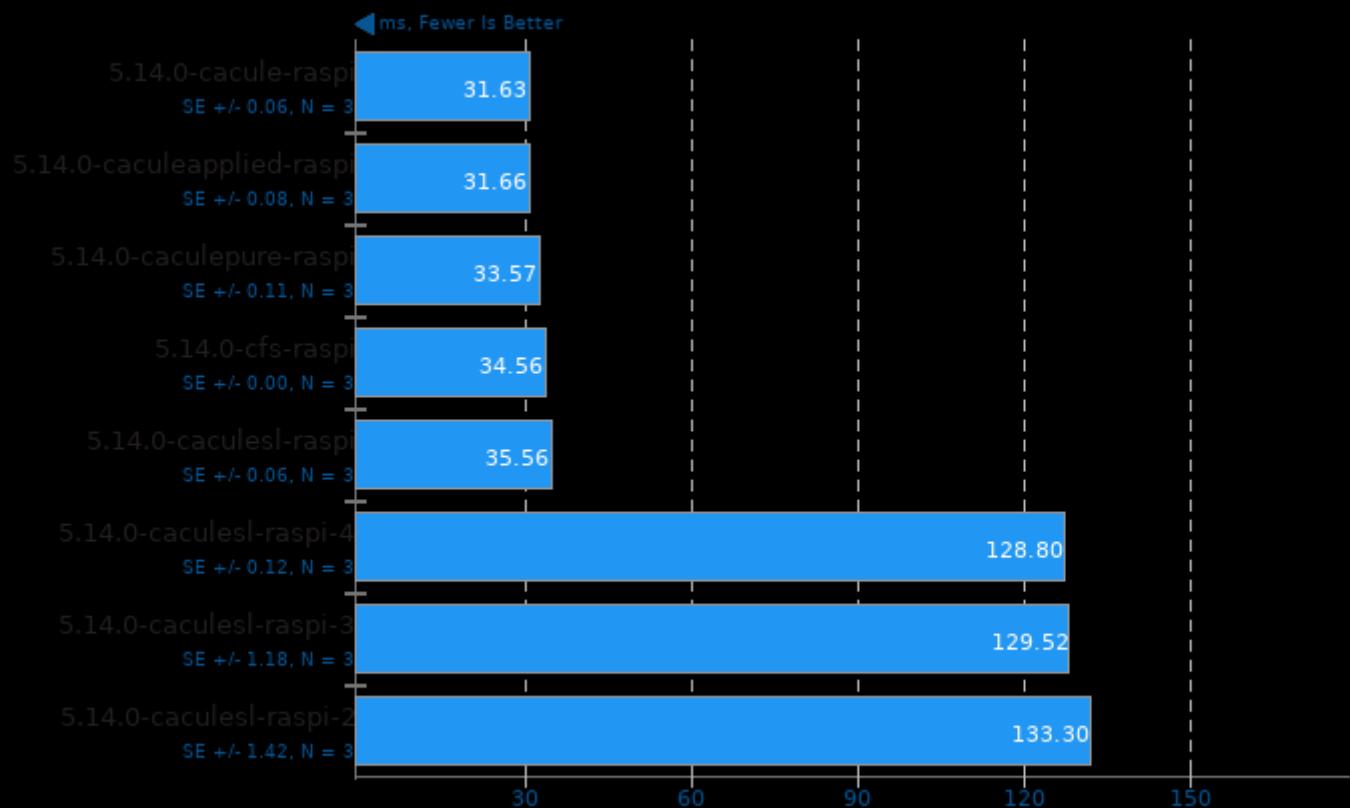
Scaling Factor: 100 - Clients: 50 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

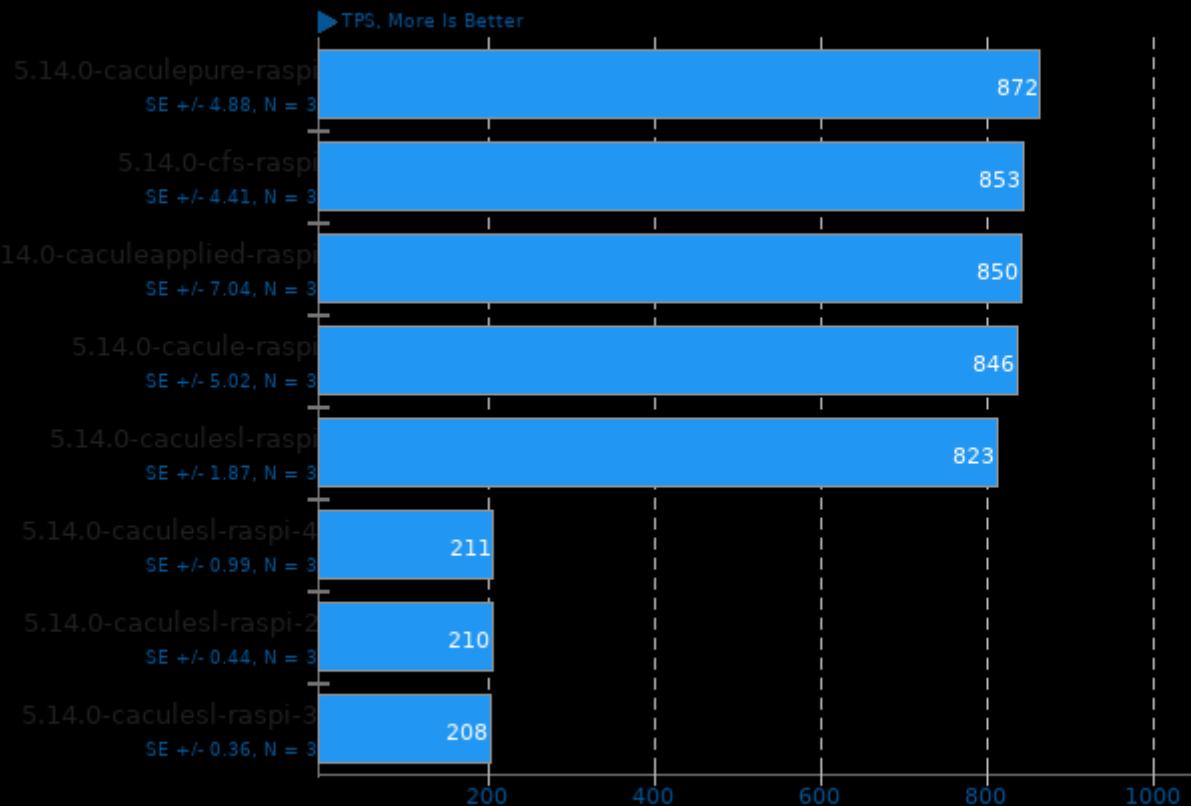
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

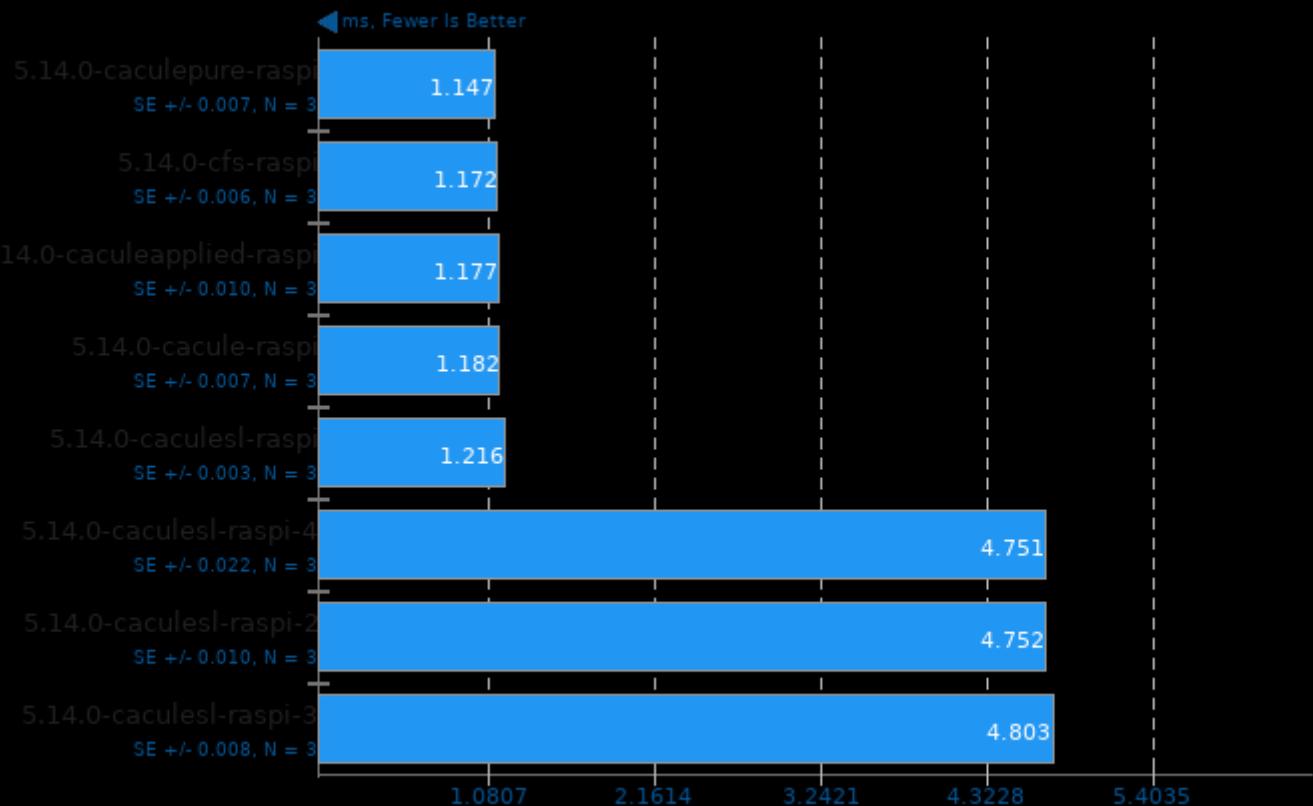
Scaling Factor: 100 - Clients: 1 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

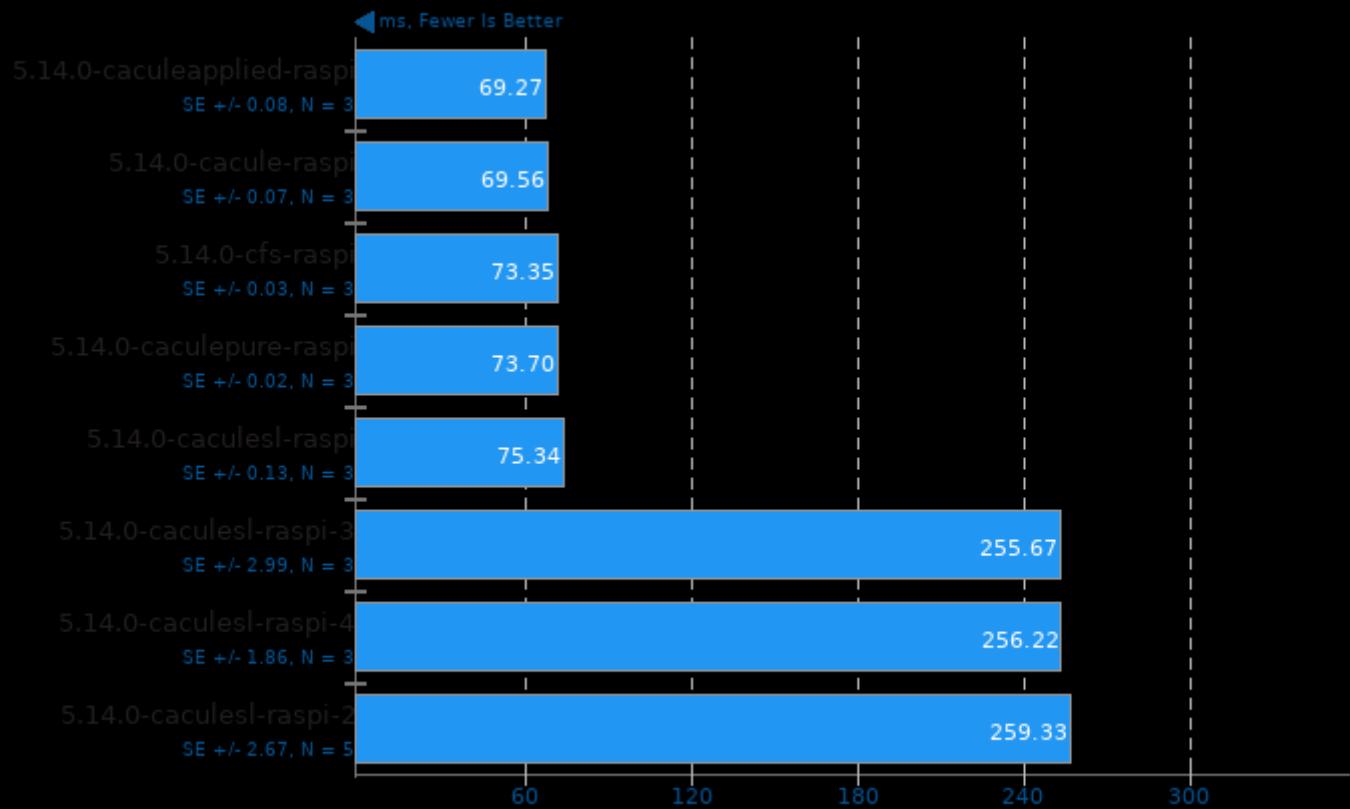
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

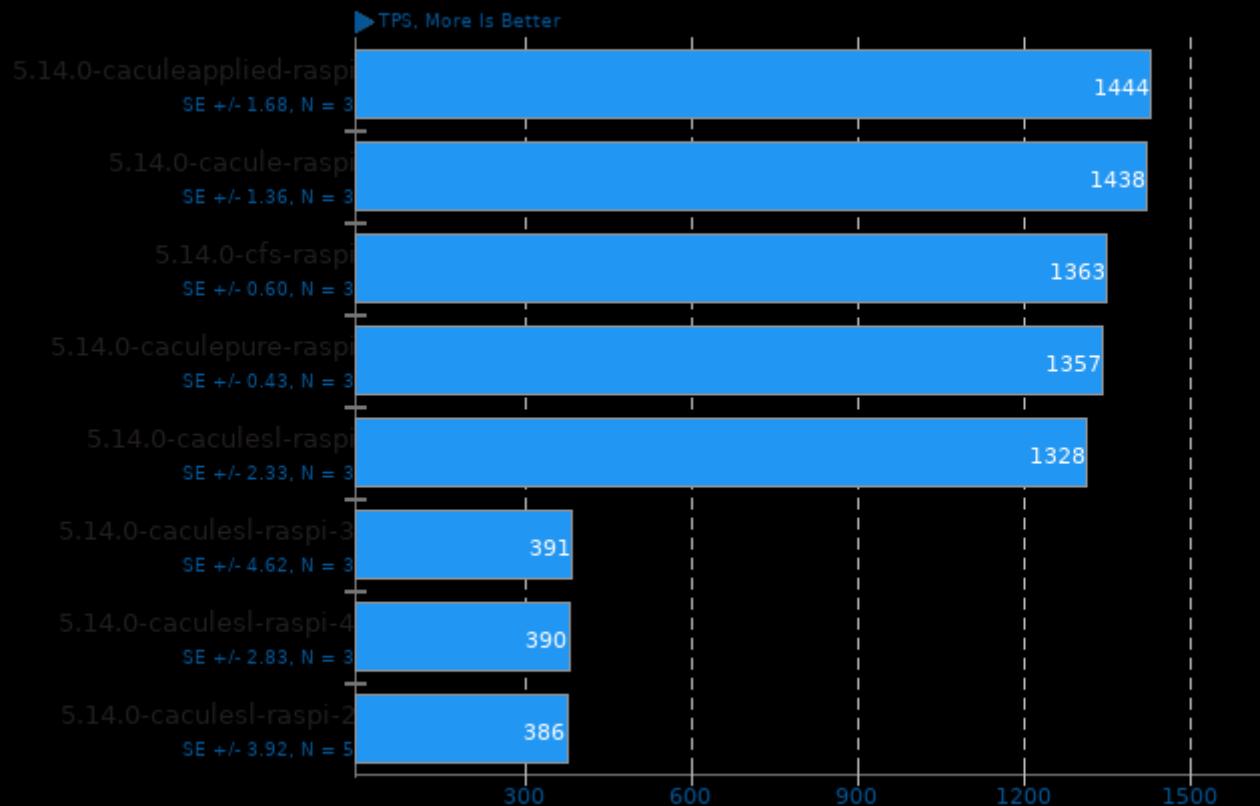
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

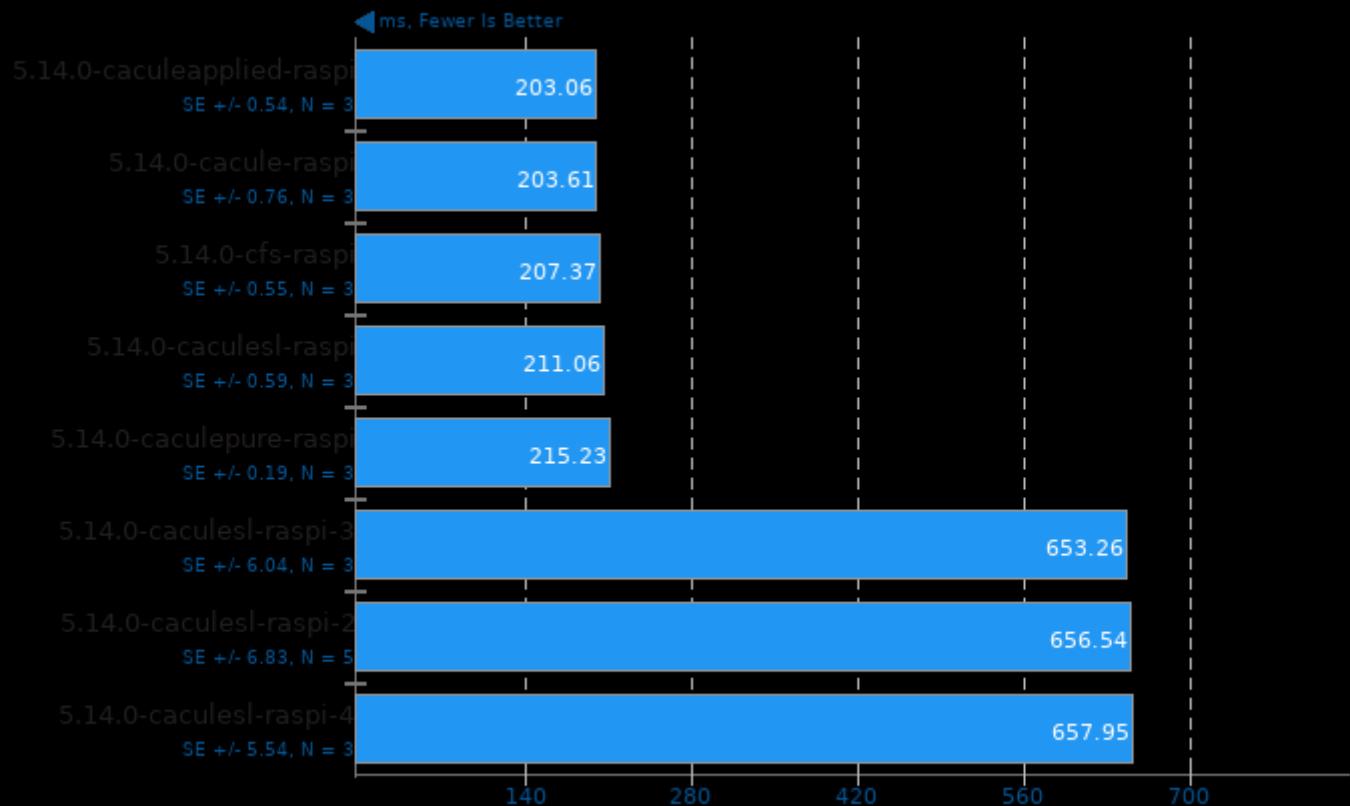
Scaling Factor: 100 - Clients: 100 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

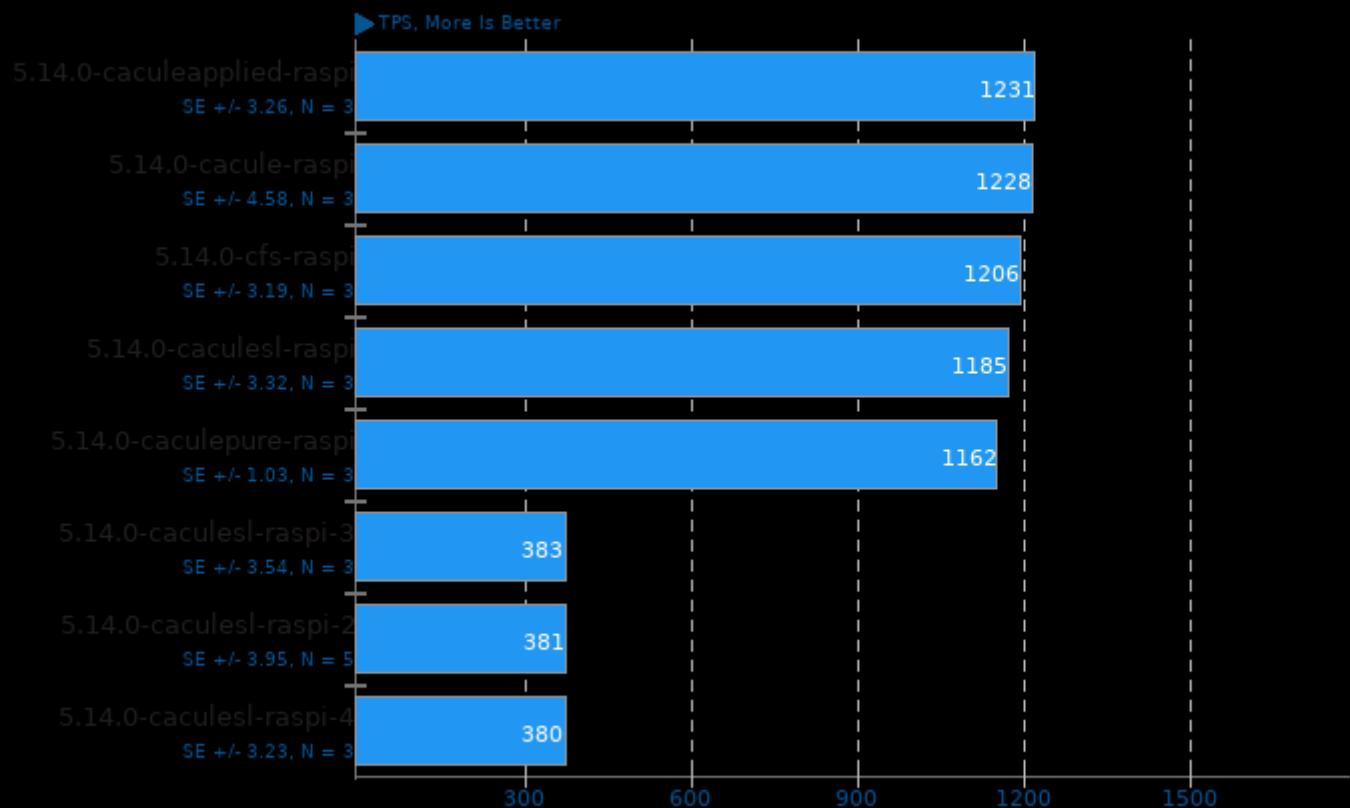
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

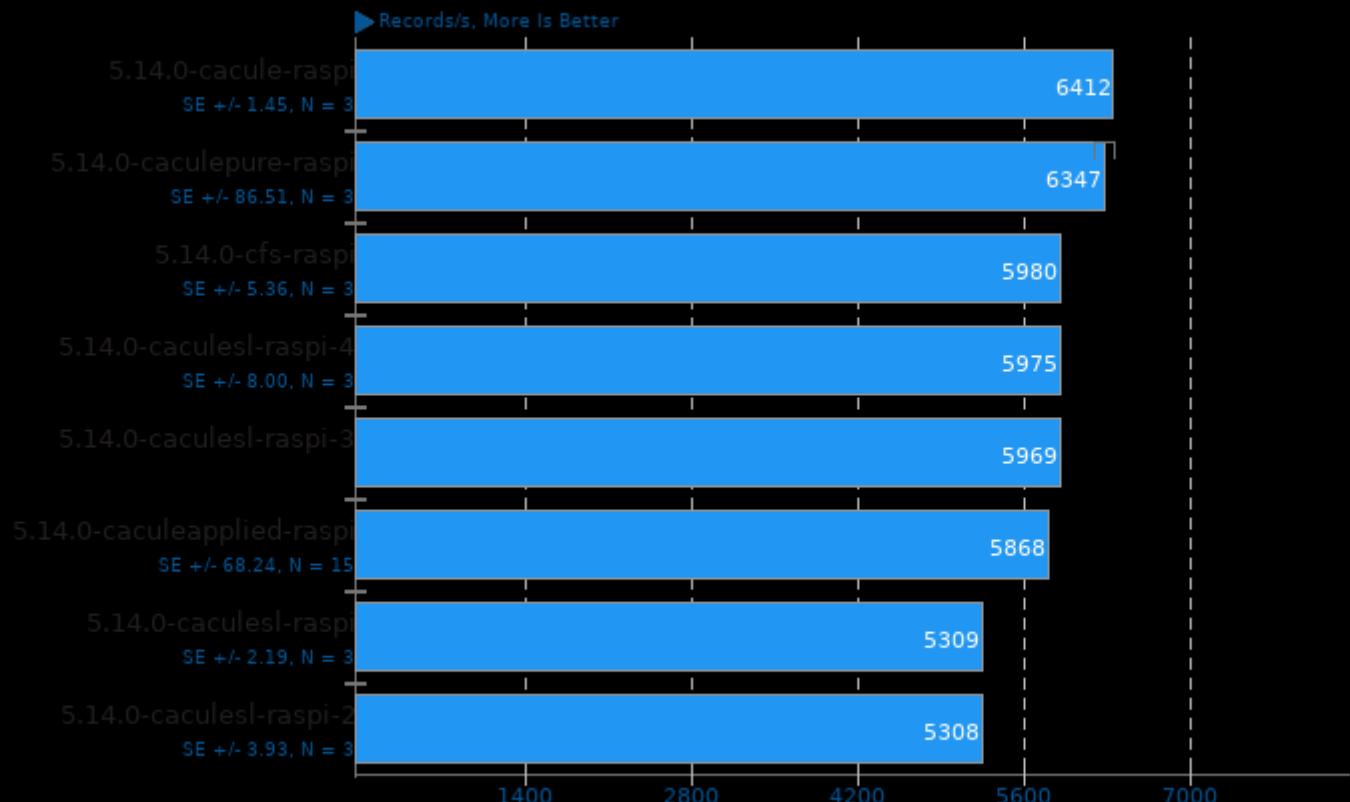
PostgreSQL pgbench 13.0

Scaling Factor: 100 - Clients: 250 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

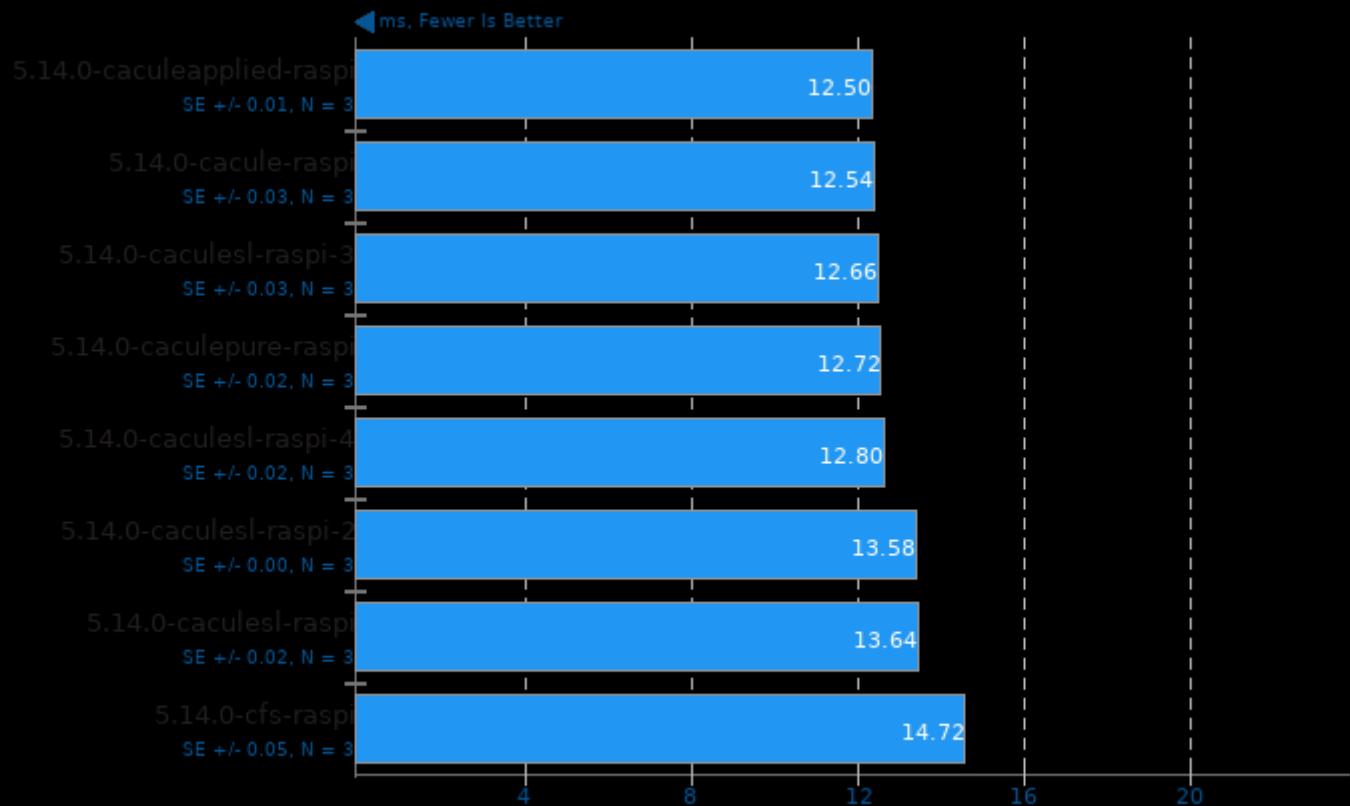
ebizzy 0.3



1. (CC) gcc options: -pthread -lpthread -O3 -march=native

PostgreSQL pgbench 13.0

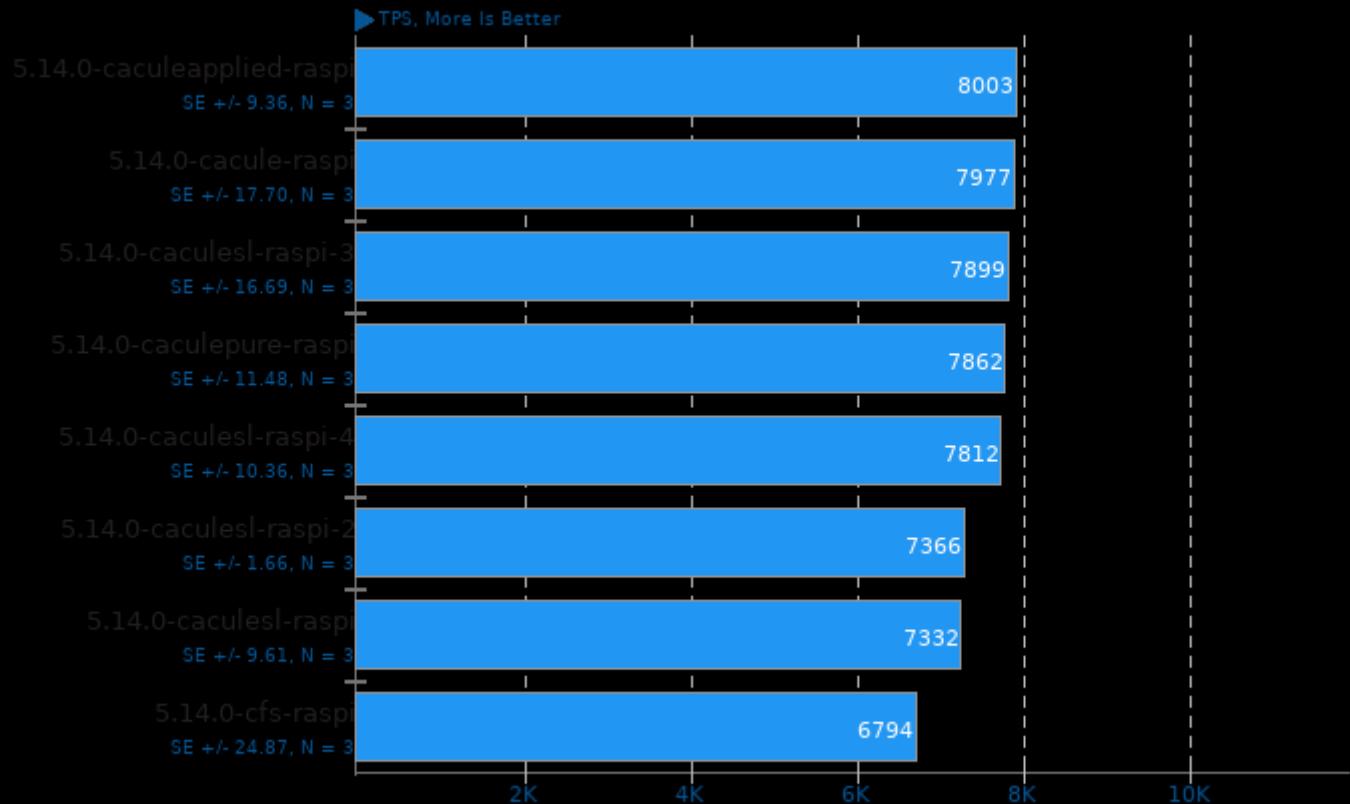
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

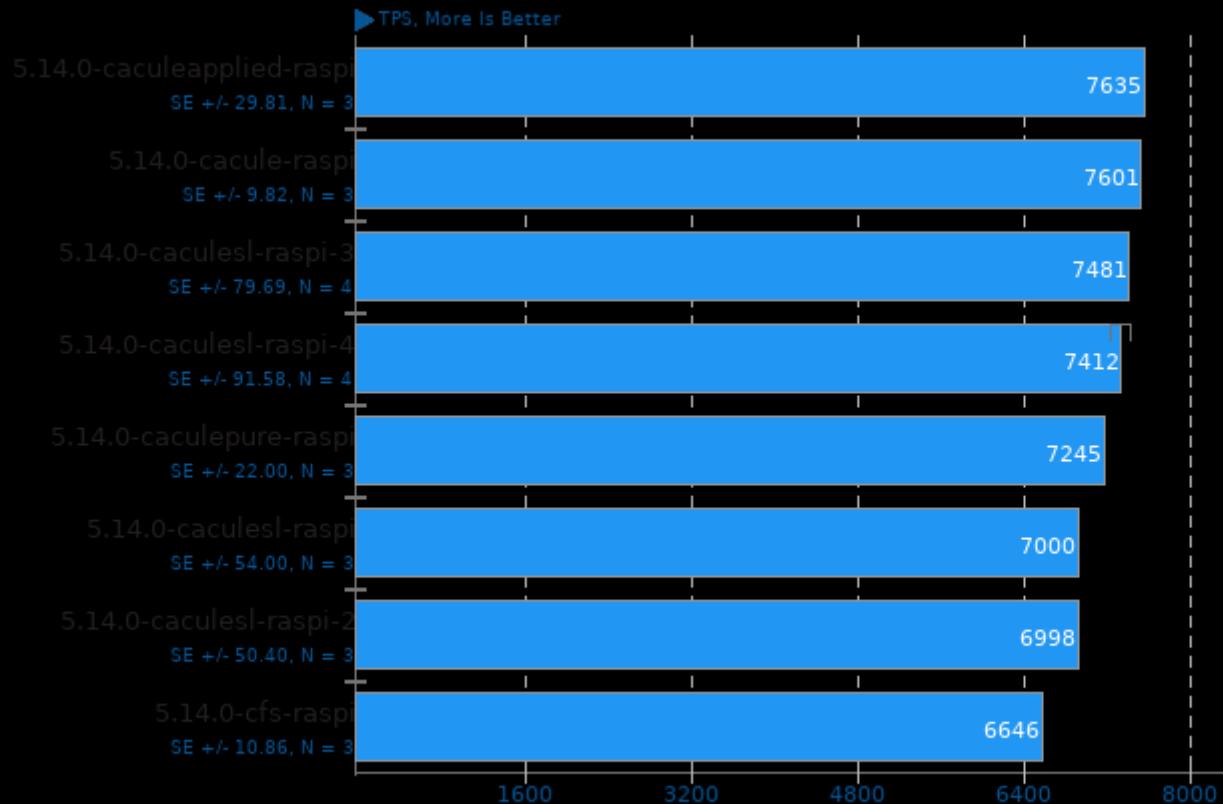
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

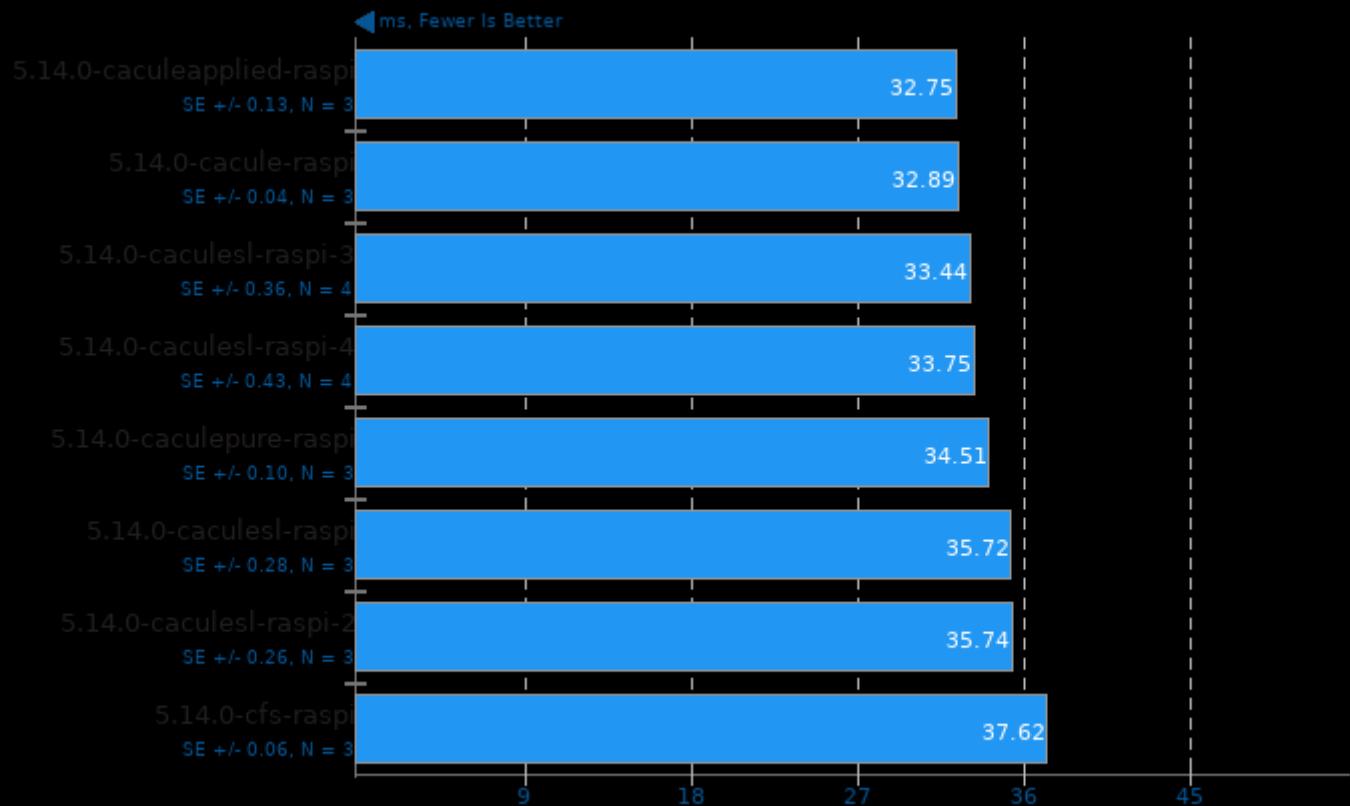
Scaling Factor: 100 - Clients: 250 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

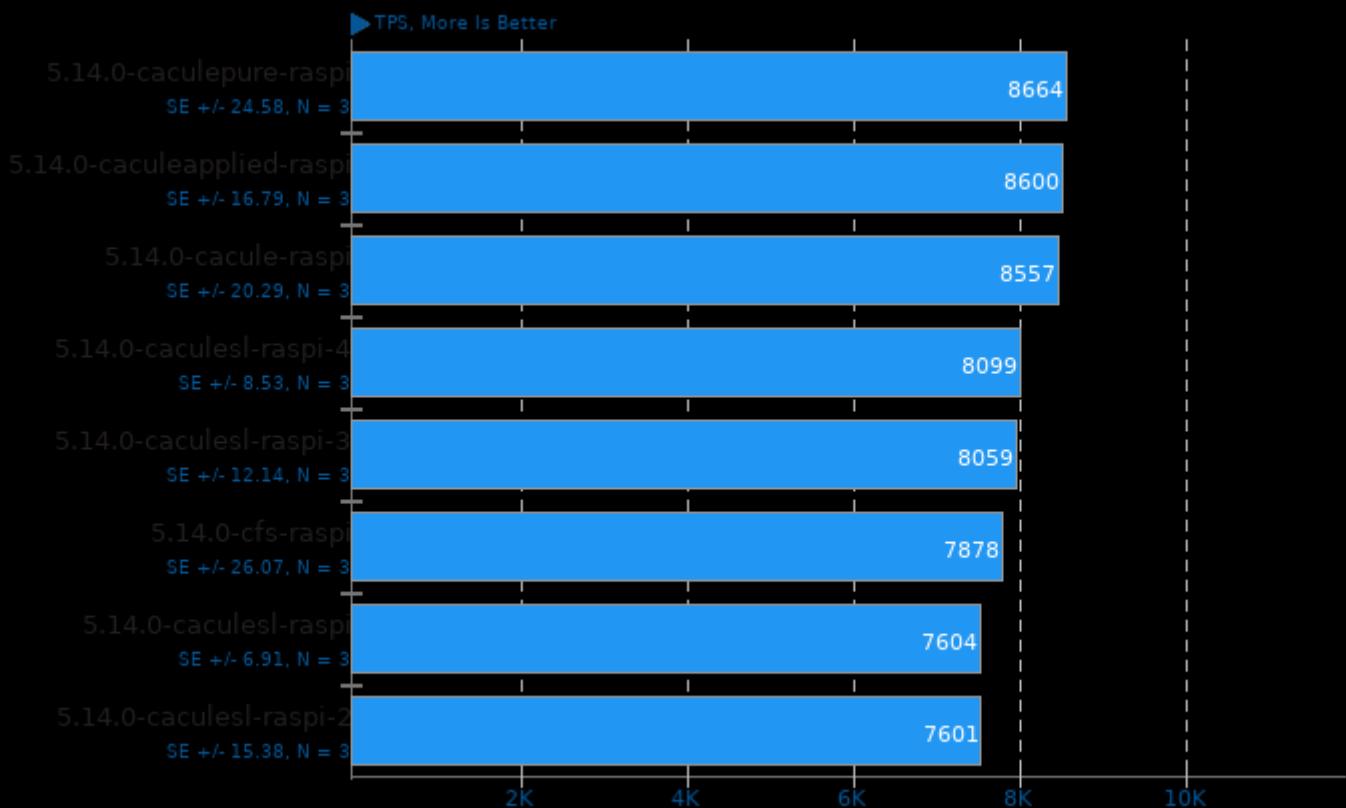
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

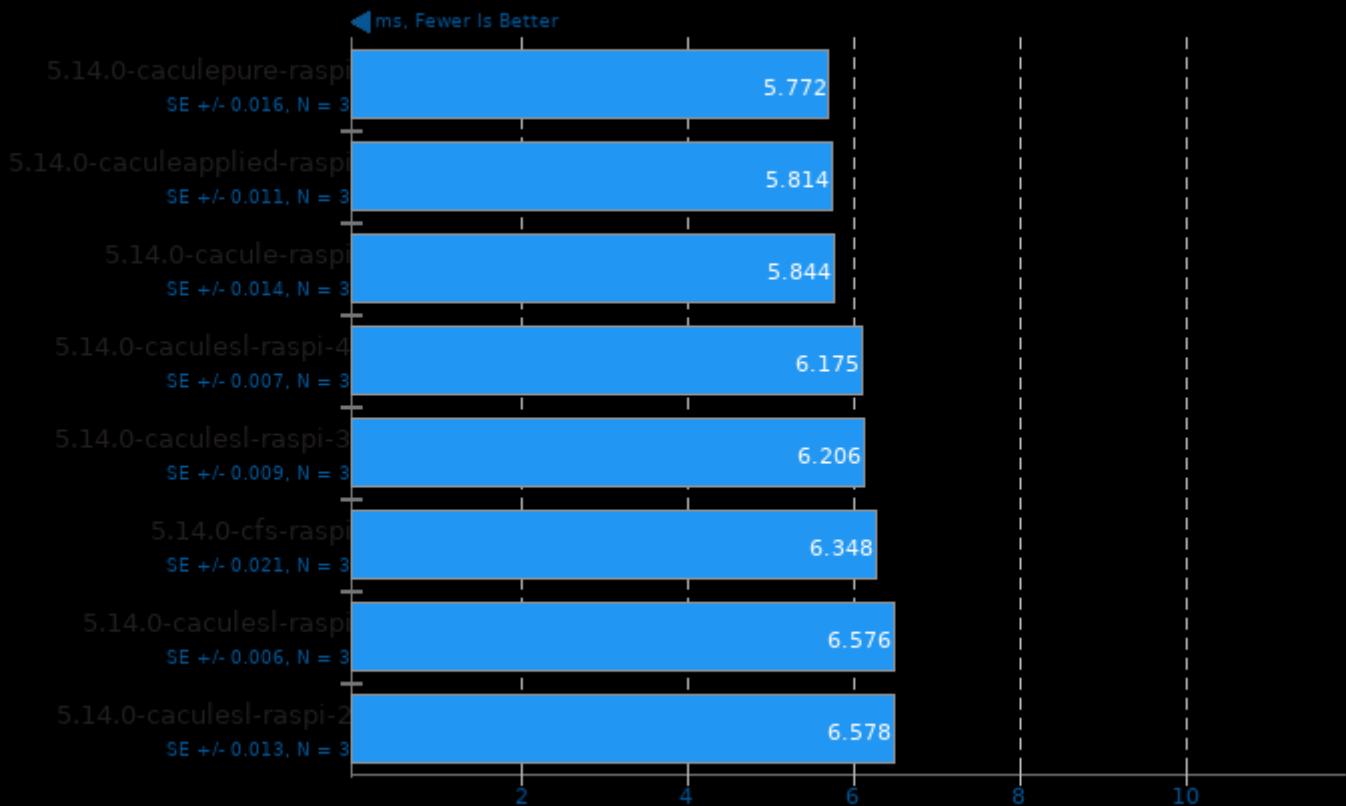
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

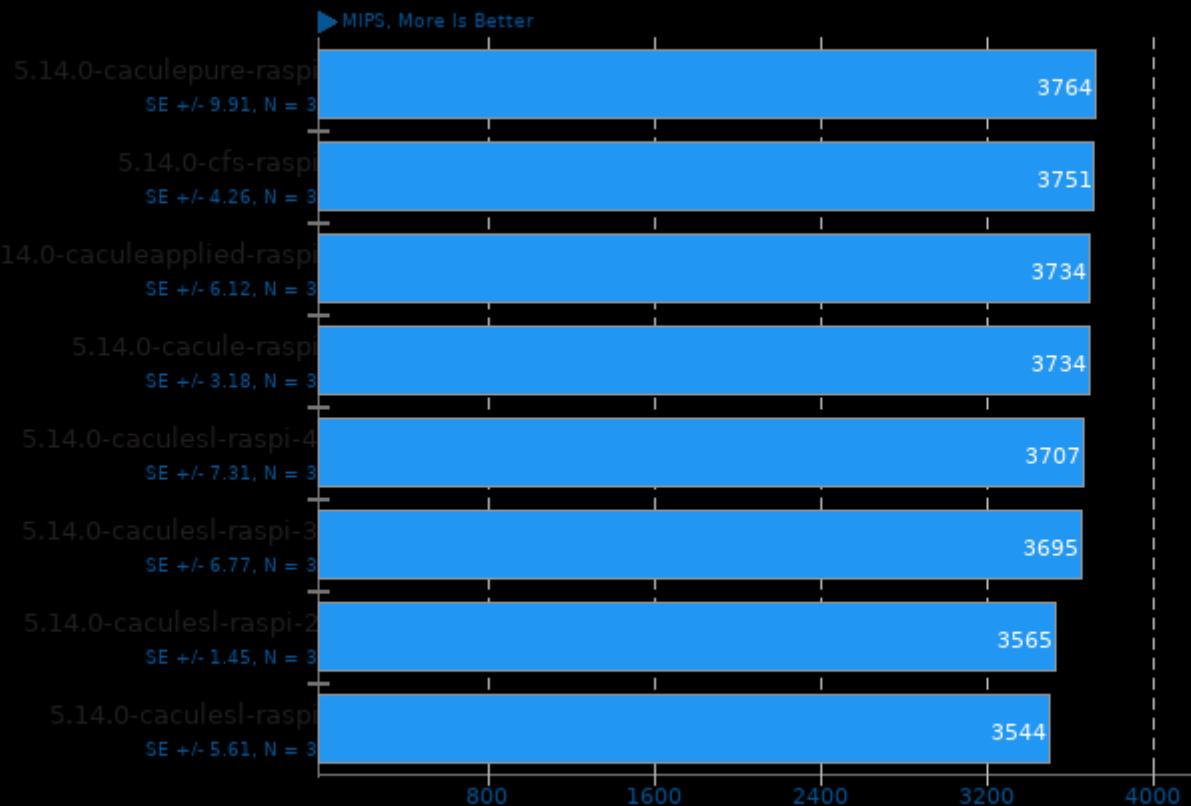
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

7-Zip Compression 16.02

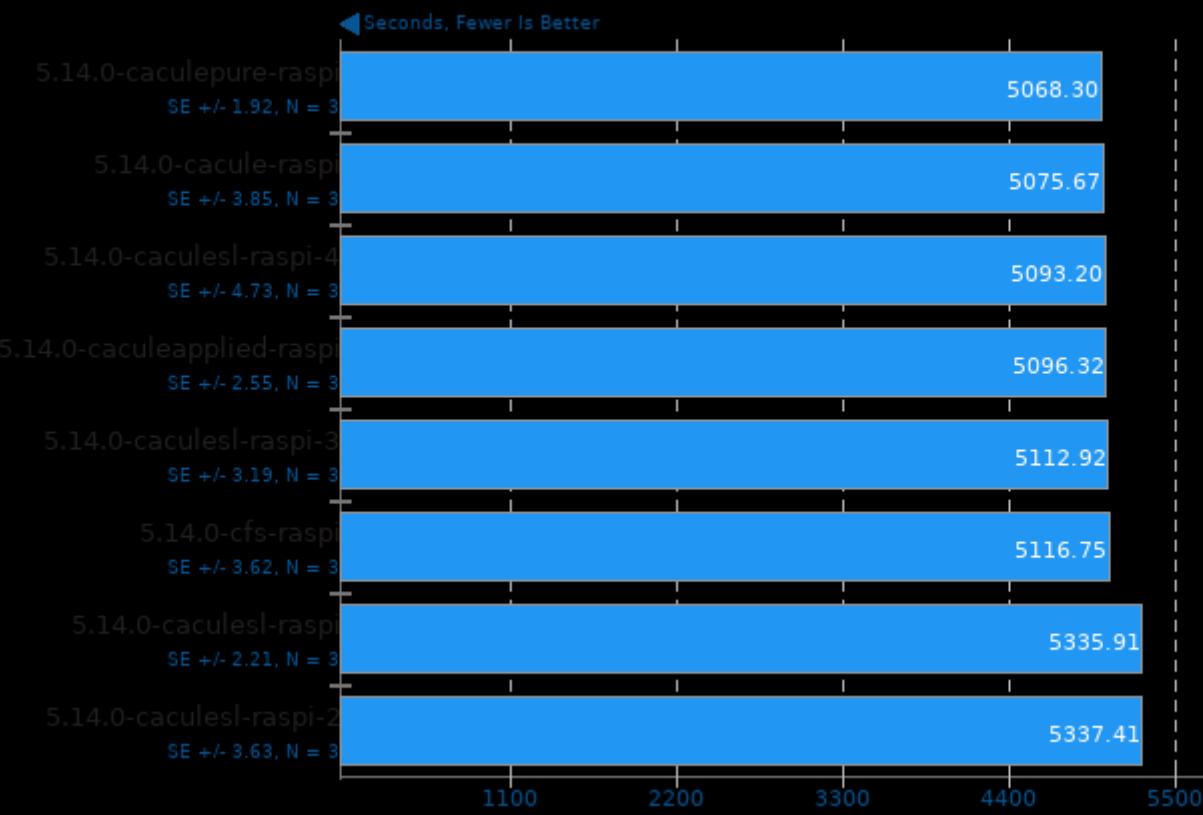
Compress Speed Test



1. (CXX) g++ options: -pipe -lpthread

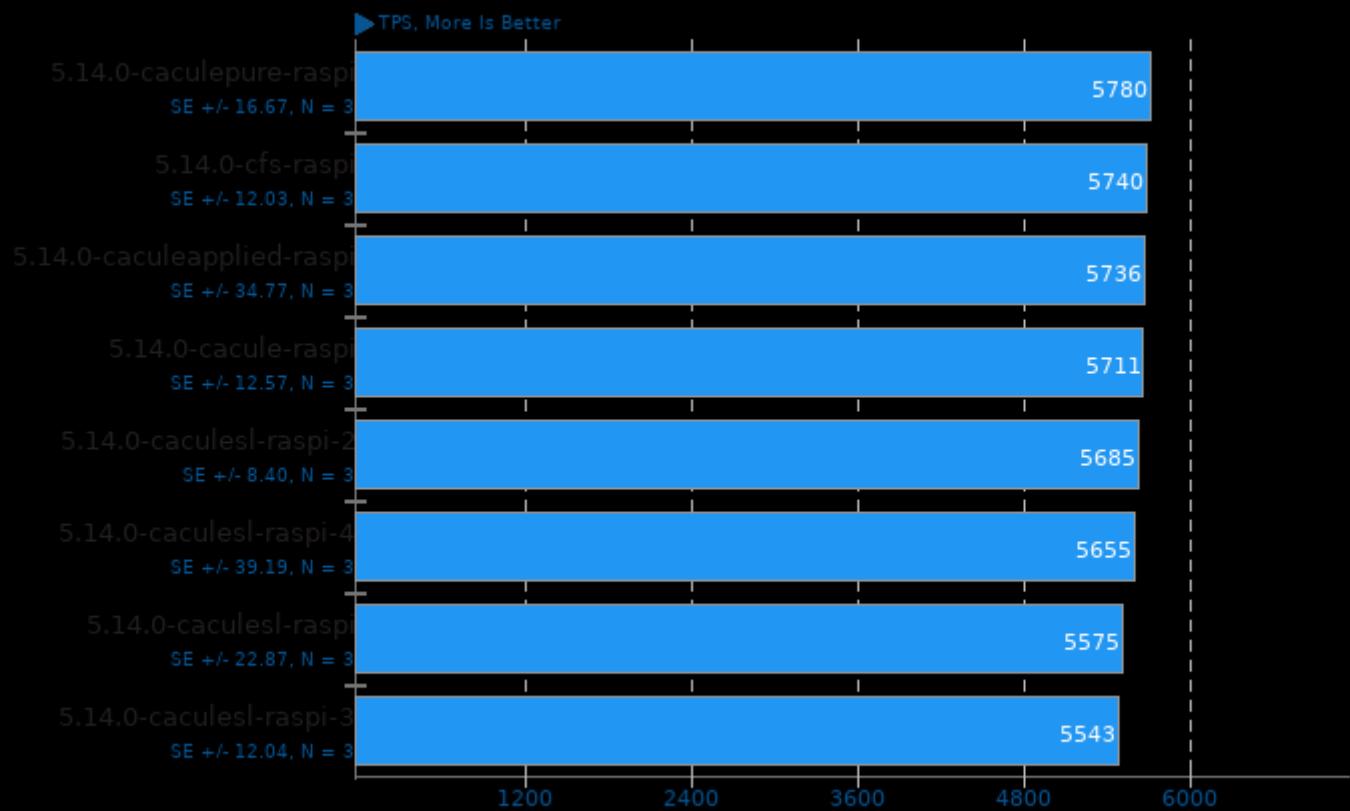
Timed Linux Kernel Compilation 5.14

Time To Compile



PostgreSQL pgbench 13.0

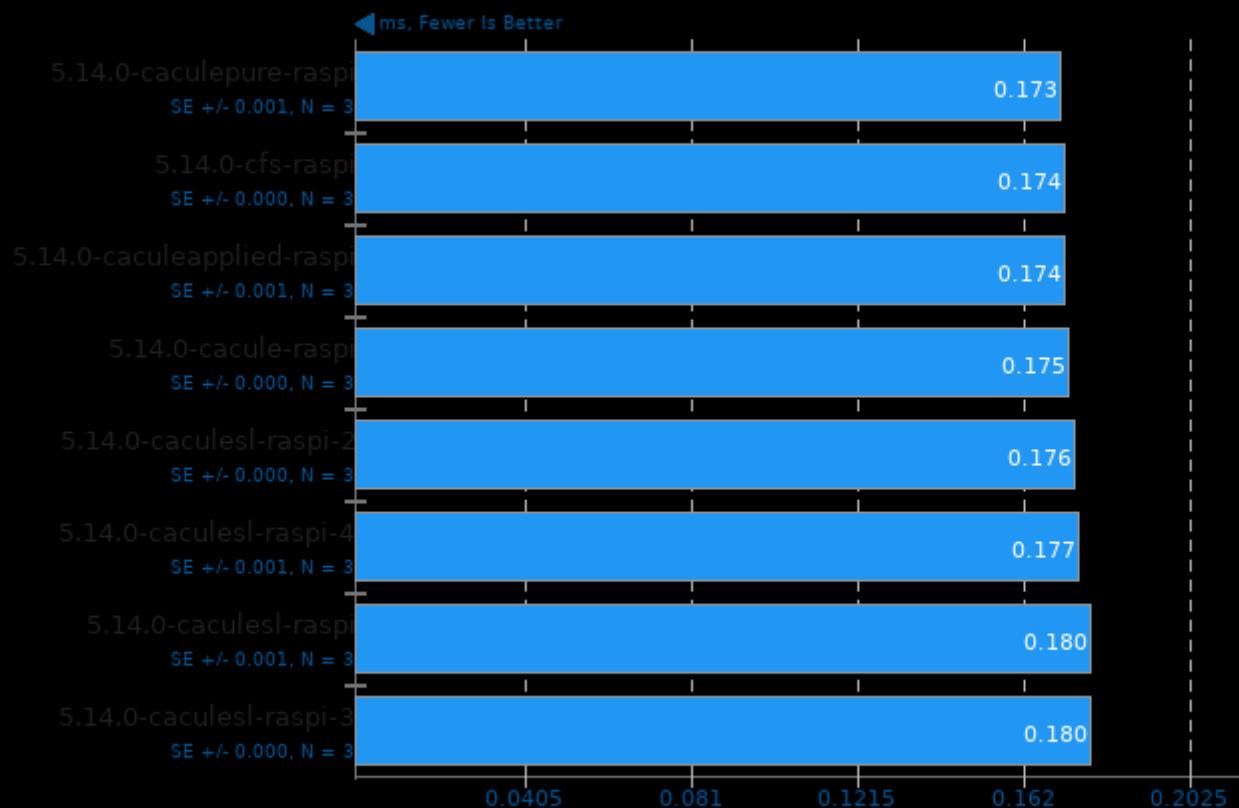
Scaling Factor: 100 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

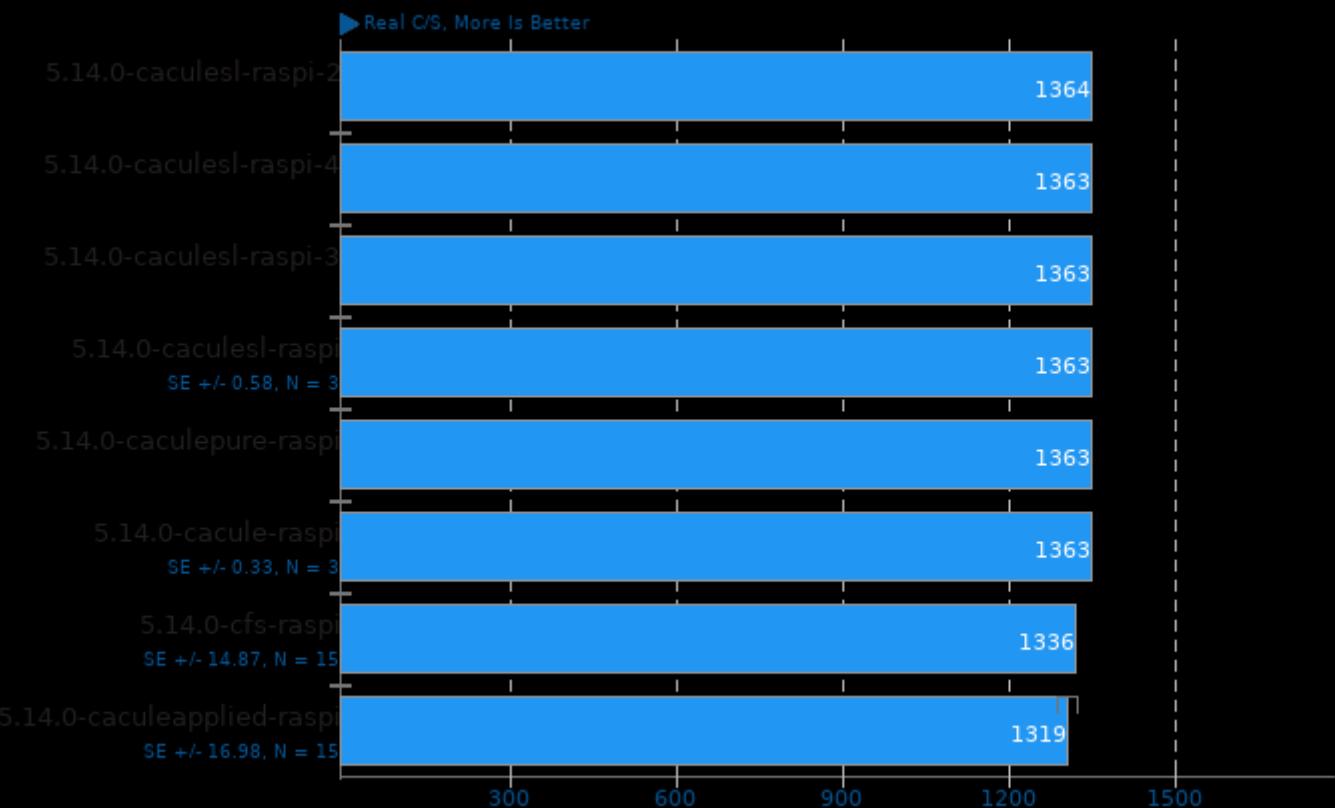
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

John The Ripper 1.9.0-jumbo-1

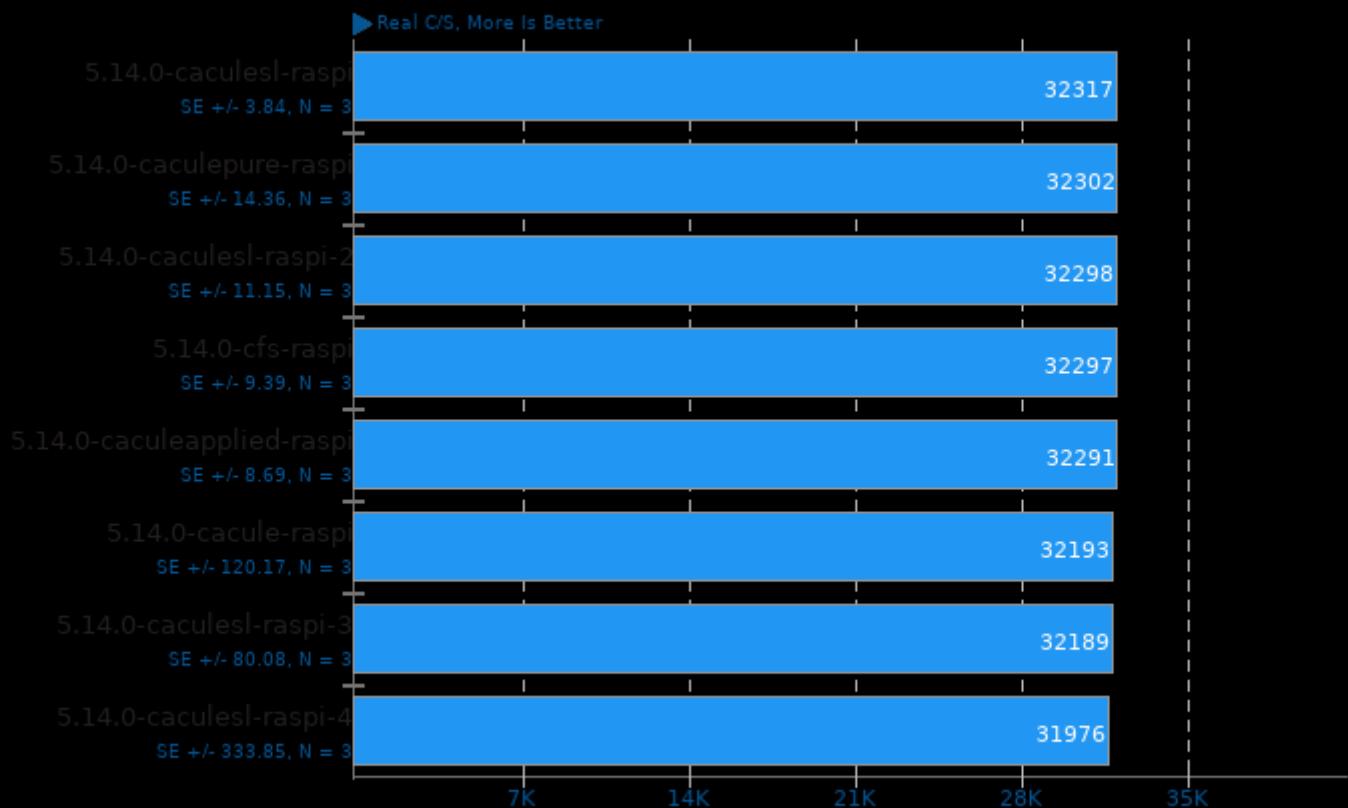
Test: Blowfish



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -ldl -lcrypt

John The Ripper 1.9.0-jumbo-1

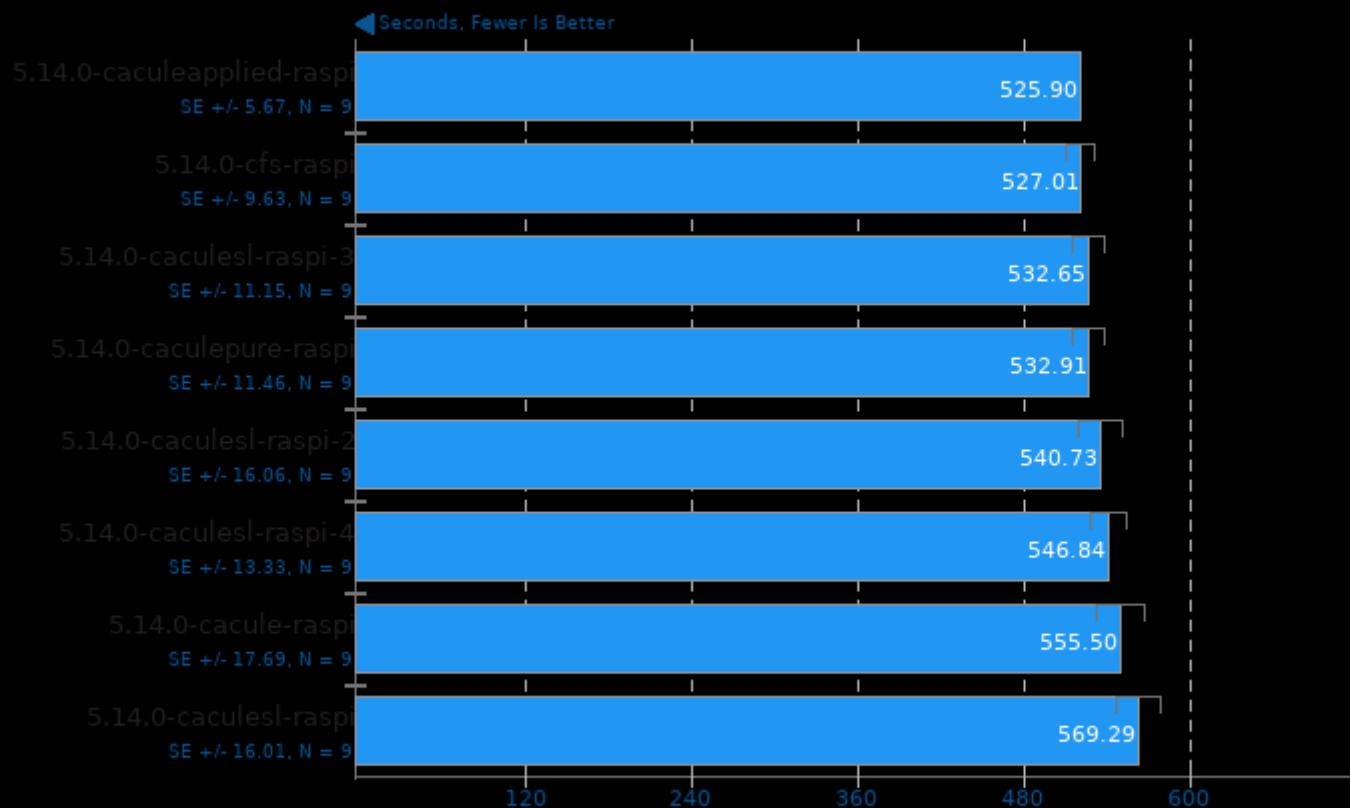
Test: MD5



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -ldl -lcrypt

Primesieve 7.4

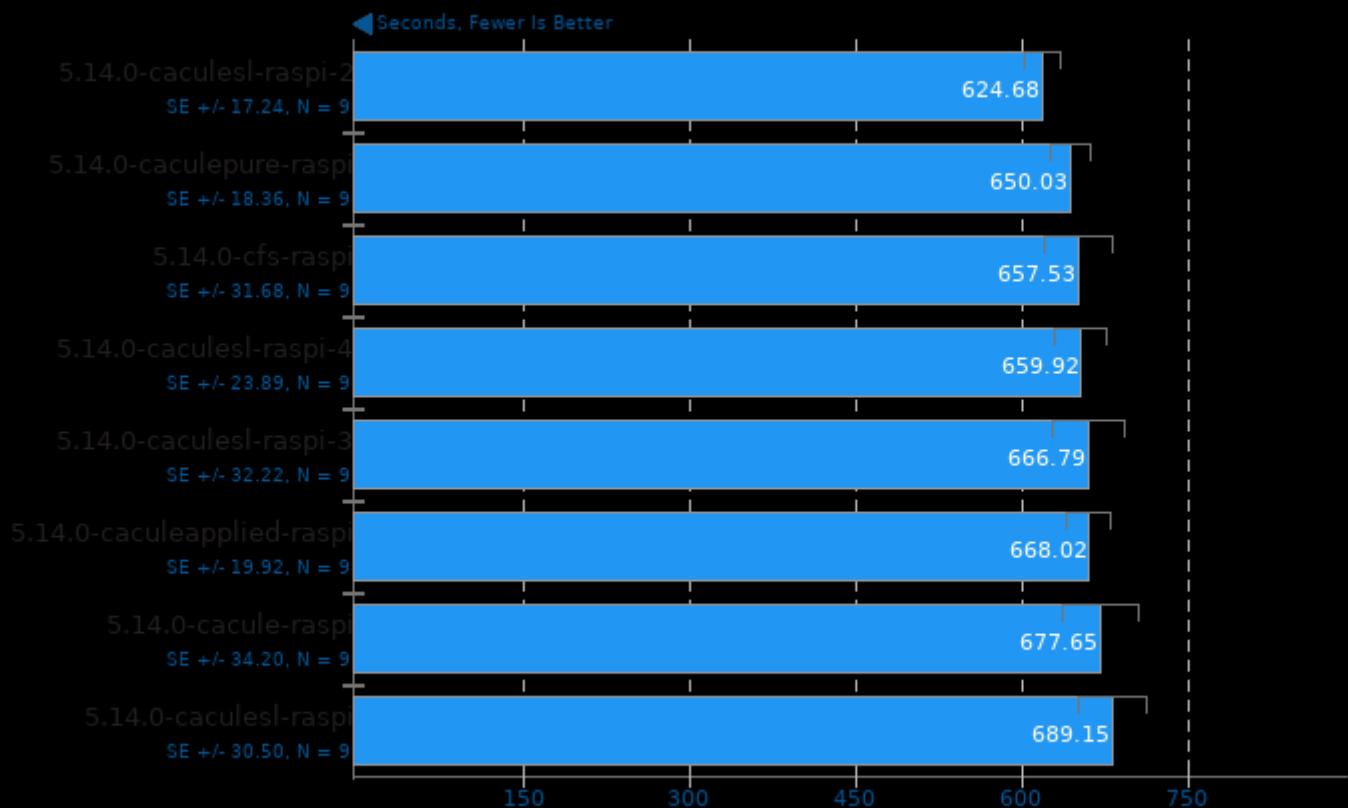
1e12 Prime Number Generation



1. (CXX) g++ options: -O3 -lpthread

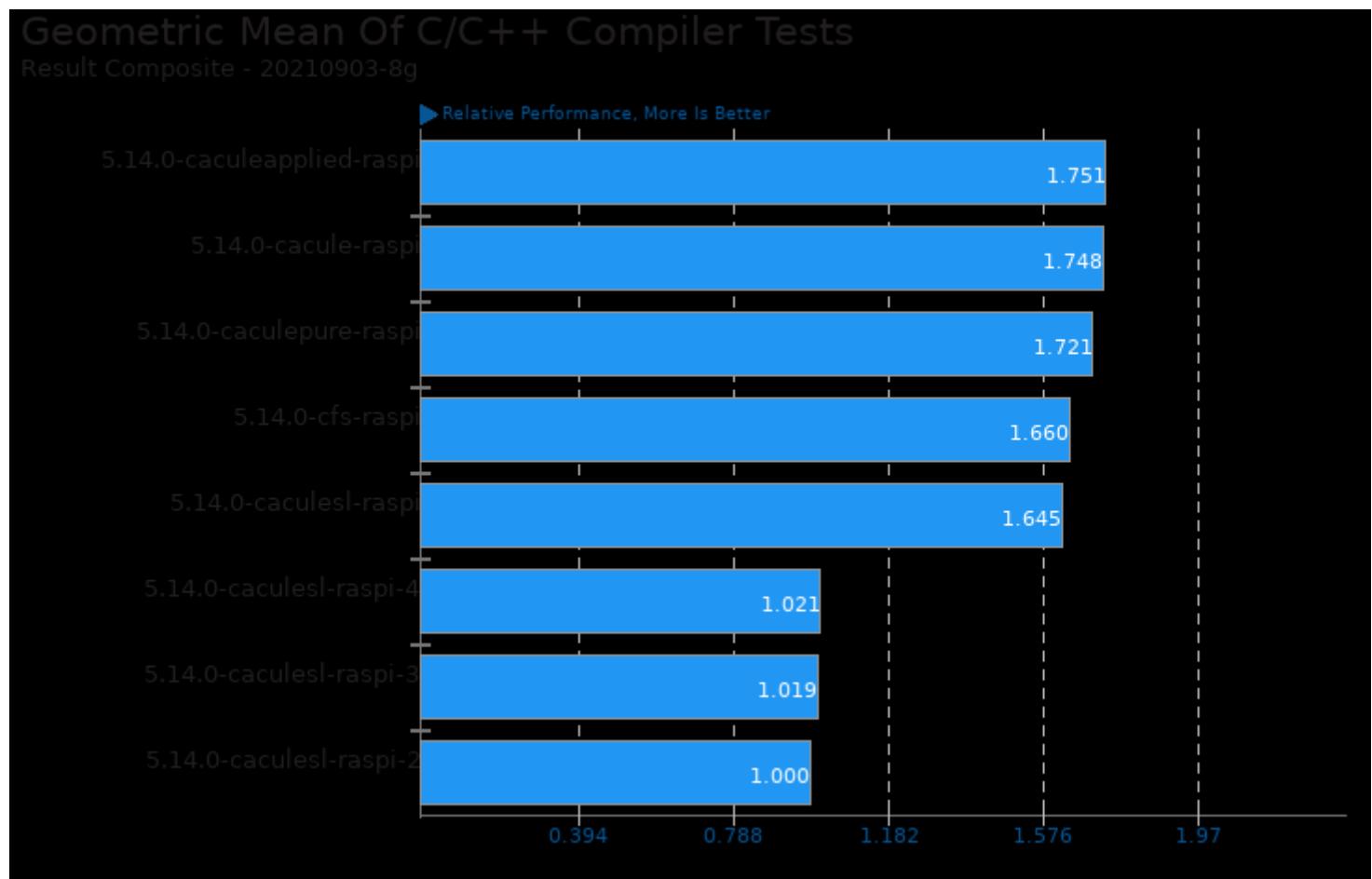
C-Ray 1.1

Total Time - 4K, 16 Rays Per Pixel



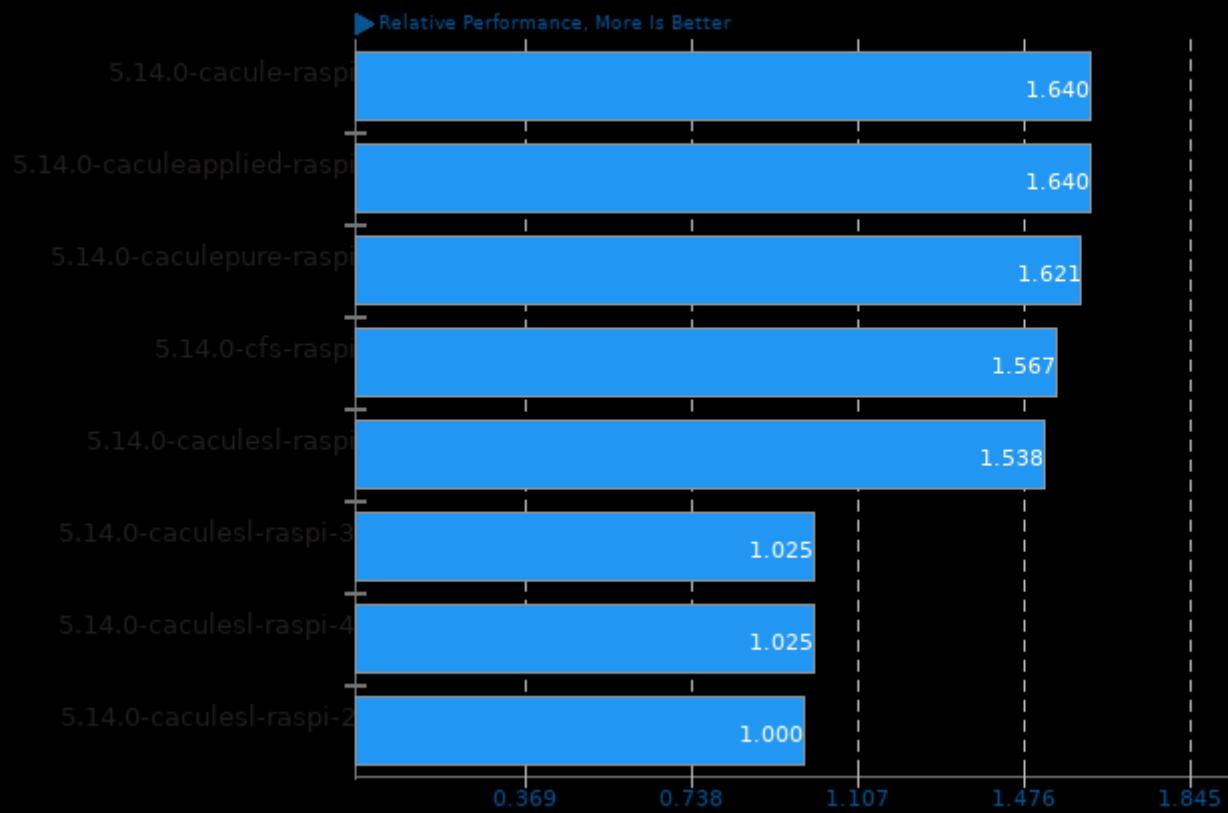
1. (CC) gcc options: -lm -lpthread -O3

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



Geometric Mean Of CPU Massive Tests

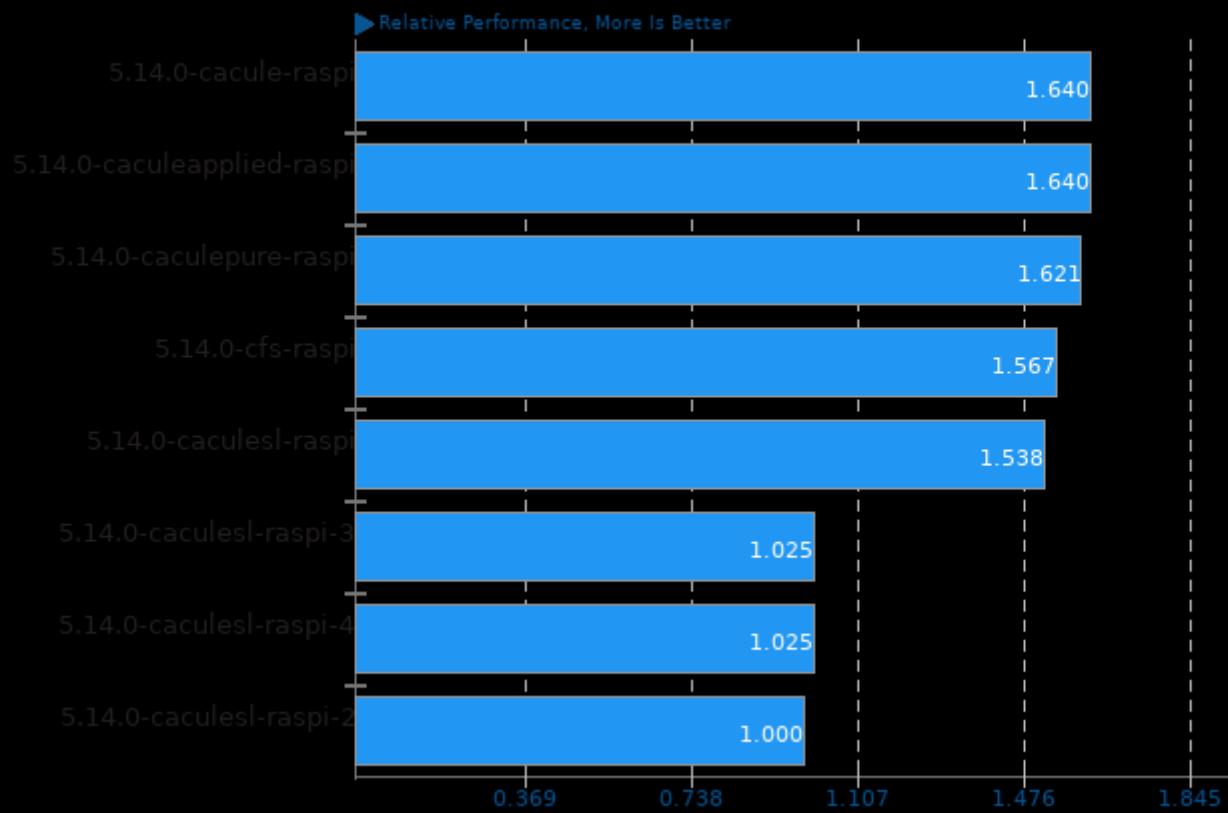
Result Composite - 20210903-8g



Geometric mean based upon tests: pts/build-linux-kernel, pts/c-ray, pts/compress-7zip, pts/ebizzy, pts/john-the-ripper, pts/pgbench and pts/primesieve

Geometric Mean Of Multi-Core Tests

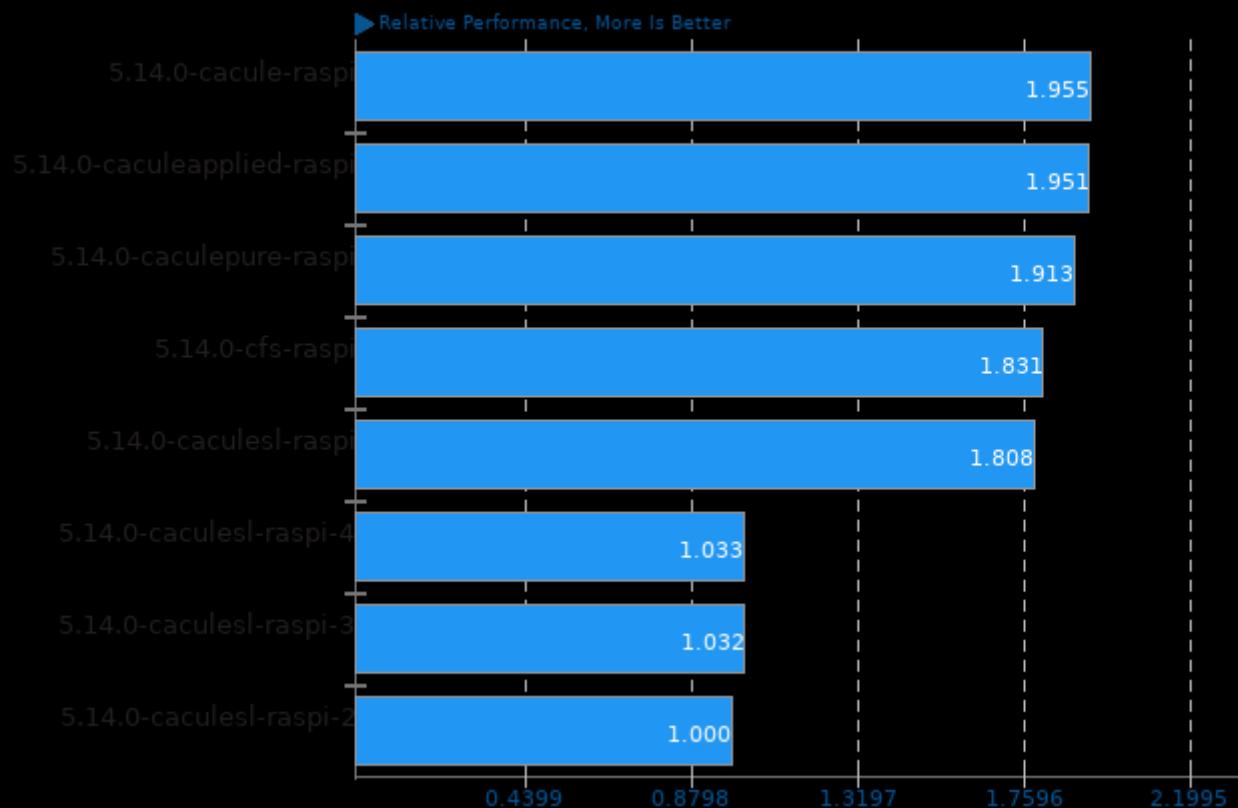
Result Composite - 20210903-8g



Geometric mean based upon tests: pts/c-ray, pts/primesieve, pts/john-the-ripper, pts/ebizzy, pts/compress-7zip, pts/build-linux-kernel and pts/pgbench

Geometric Mean Of Server Tests

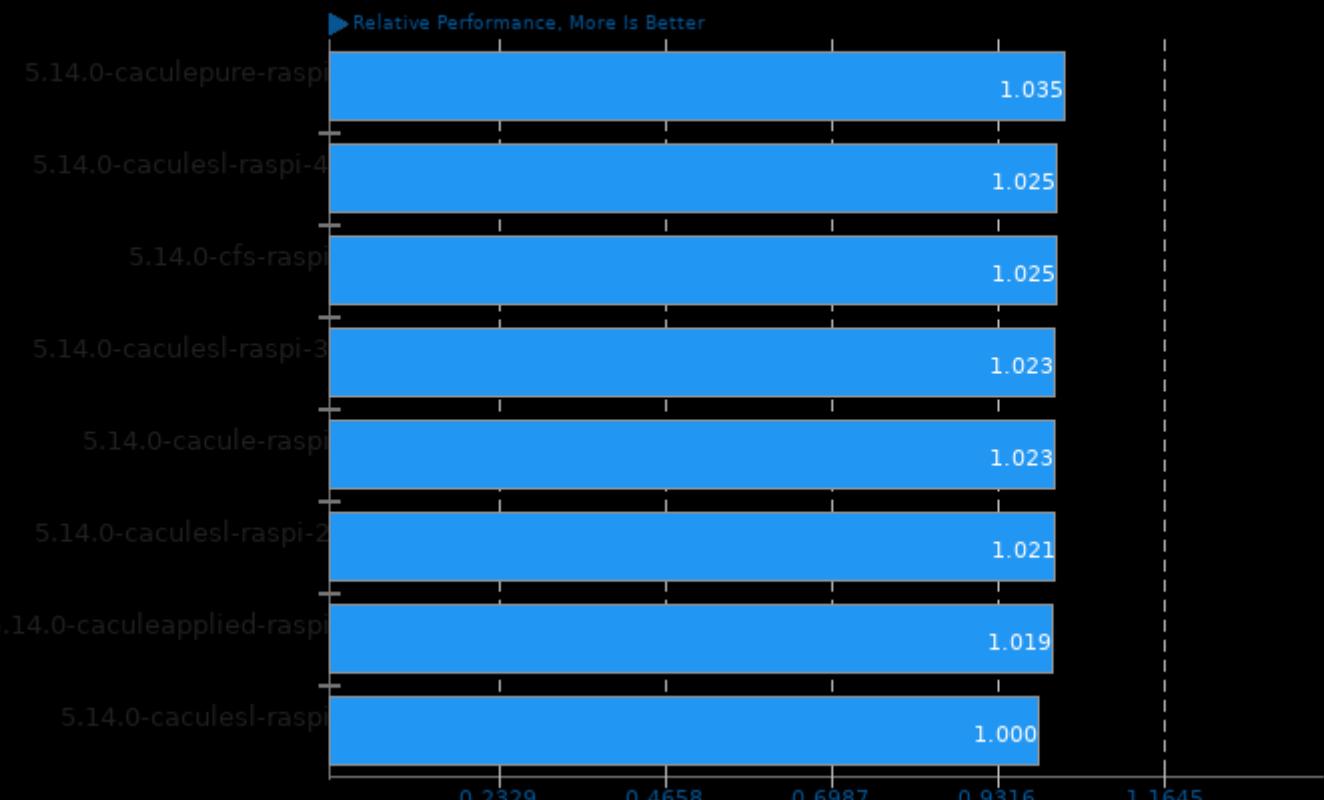
Result Composite - 20210903-8g



Geometric mean based upon tests: pts/ebizzy and pts/pgbench

Geometric Mean Of Server CPU Tests

Result Composite - 20210903-8g



Geometric mean based upon tests: pts/john-the-ripper, pts/compress-7zip, pts/build-linux-kernel and pts/c-ray

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:02.