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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
```

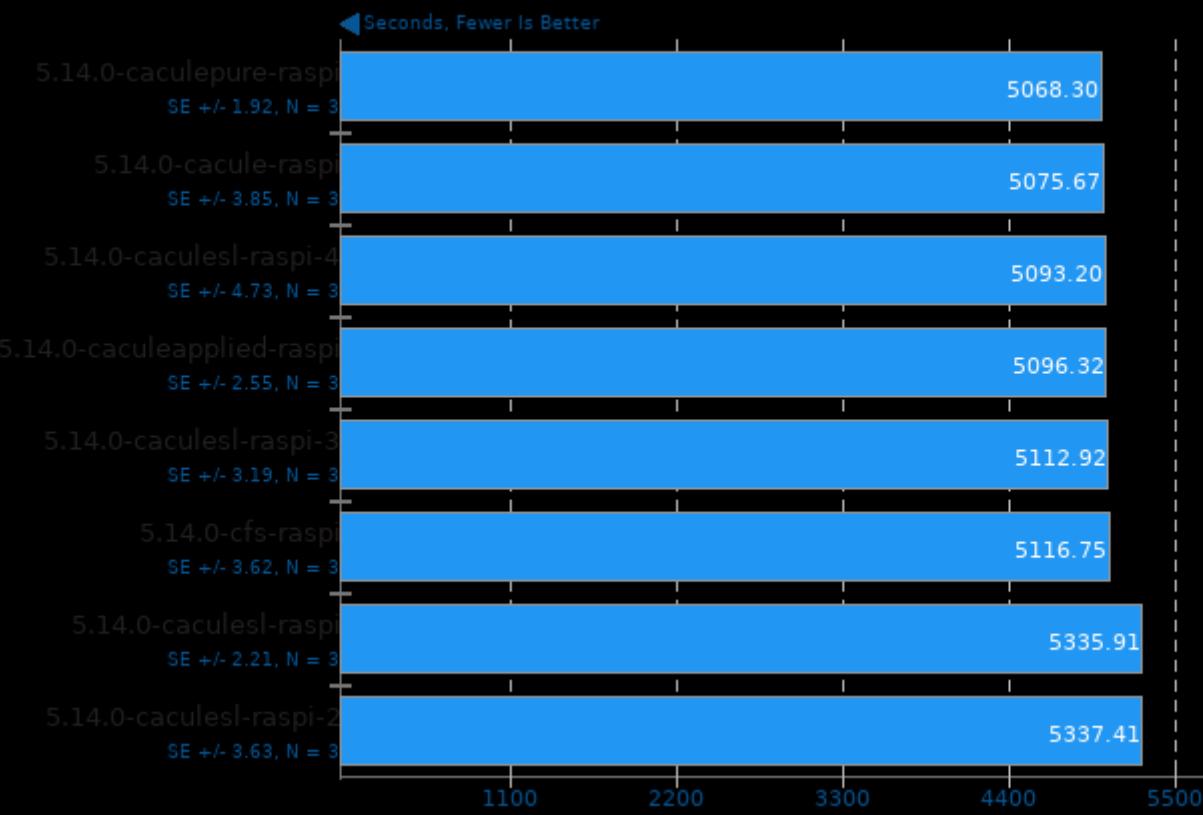
	5.14.0-cfs-r aspi	5.14.0-cac ule-raspi	5.14.0-cac ulepure-ra spi	5.14.0-cac uleapplied- raspi	5.14.0-cac ulesl-raspi	5.14.0-cac ulesl-raspi- 2	5.14.0-cac ulesl-raspi- 3	5.14.0-cac ulesl-raspi- 4
<b>Timed Linux Kernel</b>	5117	5076	<b>5068</b>	5096	5336	<b>5337</b>	5113	5093
<b>Compilation - Time To Compile (sec)</b>								
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%
<b>C-Ray - Total Time -</b>	657.532	677.649	650.027	668.022	<b>689.154</b>	<b>624.684</b>	666.794	659.924
<b>4.1.R.P.P (sec)</b>								
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%
<b>Primesieve - 1.P.N.G</b>	527.007	555.502	532.913	<b>525.899</b>	<b>569.292</b>	540.726	532.649	546.836
<b>(sec)</b>								
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%
<b>PostgreSQL pgbench -</b>	<b>37.621</b>	32.894	34.509	<b>32.748</b>	35.723	35.735	33.435	33.750
<b>100 - 250 - Read Only - Average Latency (ms)</b>								
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%
<b>PostgreSQL pgbench -</b>	<b>6646</b>	7601	7245	<b>7635</b>	7000	6998	7481	7412
<b>100 - 250 - Read Only (TPS)</b>								
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%
<b>PostgreSQL pgbench -</b>	207.366	203.612	215.226	<b>203.062</b>	211.063	656.536	653.264	<b>657.949</b>
<b>100 - 250 - Read Write - Average Latency (ms)</b>								
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%
<b>PostgreSQL pgbench -</b>	1206	1228	1162	<b>1231</b>	1185	381	383	<b>380</b>
<b>100 - 250 - Read Write (TPS)</b>								
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%
<b>PostgreSQL pgbench -</b>	73.350	69.562	73.697	<b>69.273</b>	75.340	<b>259.325</b>	255.667	256.215
<b>100 - 100 - Read Write - Average Latency (ms)</b>								
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%

<b>PostgreSQL pgbench -</b>	1363	1438	1357	<b>1444</b>	1328	<b>386</b>	391	390
<b>100 - 100 - Read Write (TPS)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	0.174	0.175	<b>0.173</b>	0.174	<b>0.180</b>	0.176	<b>0.180</b>	0.177
<b>100 - 1 - Read Only - Average Latency (ms)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	5740	5711	<b>5780</b>	5736	5575	5685	<b>5543</b>	5655
<b>100 - 1 - Read Only (TPS)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	1.172	1.182	<b>1.147</b>	1.177	1.216	4.752	<b>4.803</b>	4.751
<b>100 - 1 - Read Write - Average Latency (ms)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	853	846	<b>872</b>	850	823	210	<b>208</b>	211
<b>100 - 1 - Read Write (TPS)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	34.563	<b>31.630</b>	33.573	31.663	35.557	<b>133.303</b>	129.521	128.800
<b>100 - 50 - Read Write - Average Latency (ms)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	1447	<b>1581</b>	1489	1579	1406	<b>375</b>	386	388
<b>100 - 50 - Read Write (TPS)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	<b>14.721</b>	12.538	12.722	<b>12.496</b>	13.640	13.578	12.661	12.803
<b>100 - 100 - Read Only - Average Latency (ms)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	<b>6794</b>	7977	7862	<b>8003</b>	7332	7366	7899	7812
<b>100 - 100 - Read Only (TPS)</b>								
Normalized								
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%
<b>PostgreSQL pgbench -</b>	6.348	5.844	<b>5.772</b>	5.814	6.576	<b>6.578</b>	6.206	6.175
<b>100 - 50 - Read Only - Average Latency (ms)</b>								
Normalized								
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%

<b>PostgreSQL pgbench -</b>	7878	8557	<b>8664</b>	8600	7604	<b>7601</b>	8059	8099
<b>100 - 50 - Read Only</b>								
<b>(TPS)</b>								
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%
<b>7-Zip Compression -</b>	3751	3734	<b>3764</b>	3734	<b>3544</b>	3565	3695	3707
<b>C.S.T (MIPS)</b>								
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%
<b>John The Ripper -</b>	1336	1363	1363	<b>1319</b>	1363	<b>1364</b>	1363	1363
<b>Blowfish (Real C/S)</b>								
Normalized	97.95%	99.93%	99.93%	96.7%	99.93%	100%	99.93%	99.93%
Standard Deviation	4.3%	0%		5%	0.1%			
<b>John The Ripper - MD5</b>	32297	32193	32302	32291	<b>32317</b>	32298	32189	<b>31976</b>
<b>(Real C/S)</b>								
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%
<b>ebizzy (Records/s)</b>	5980	<b>6412</b>	6347	<b>5868</b>	5309	<b>5308</b>	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%

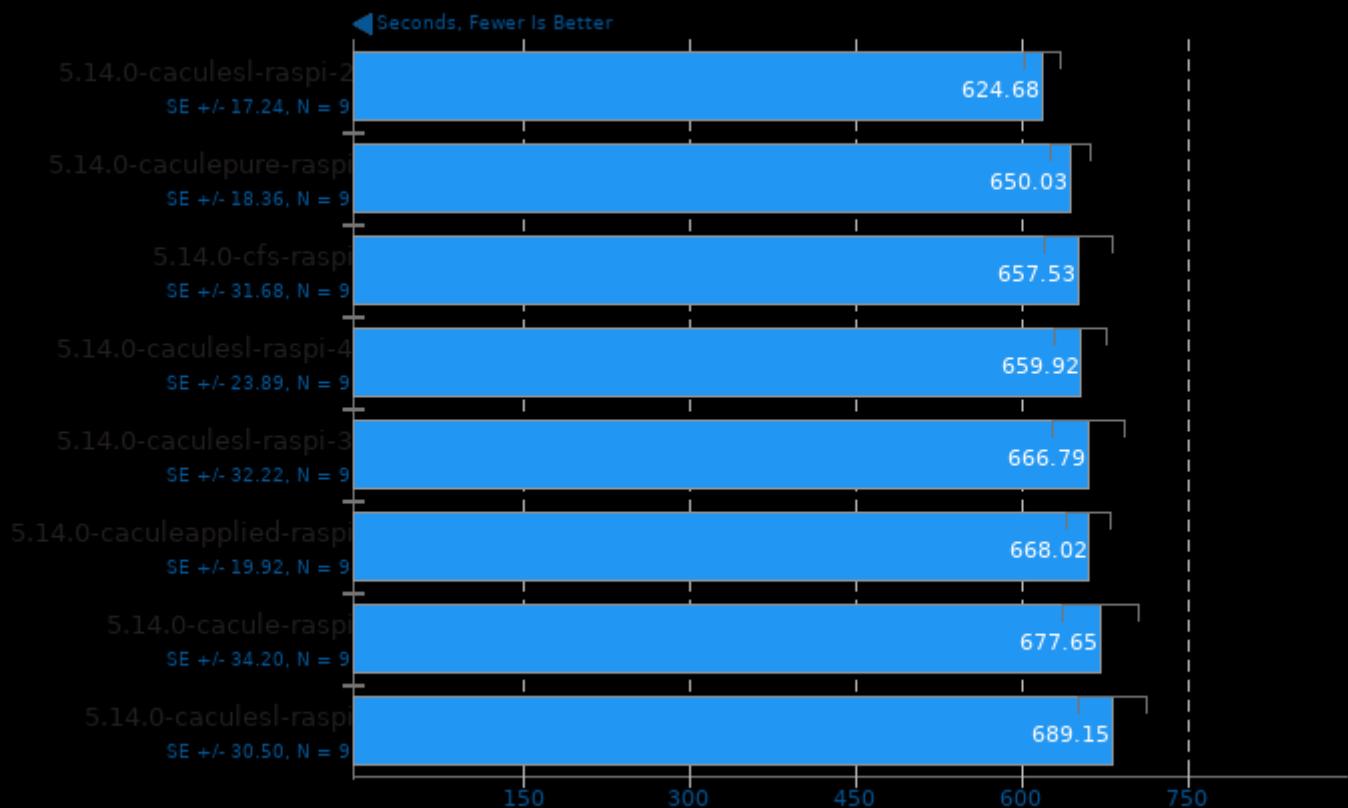
## Timed Linux Kernel Compilation 5.14

Time To Compile



## C-Ray 1.1

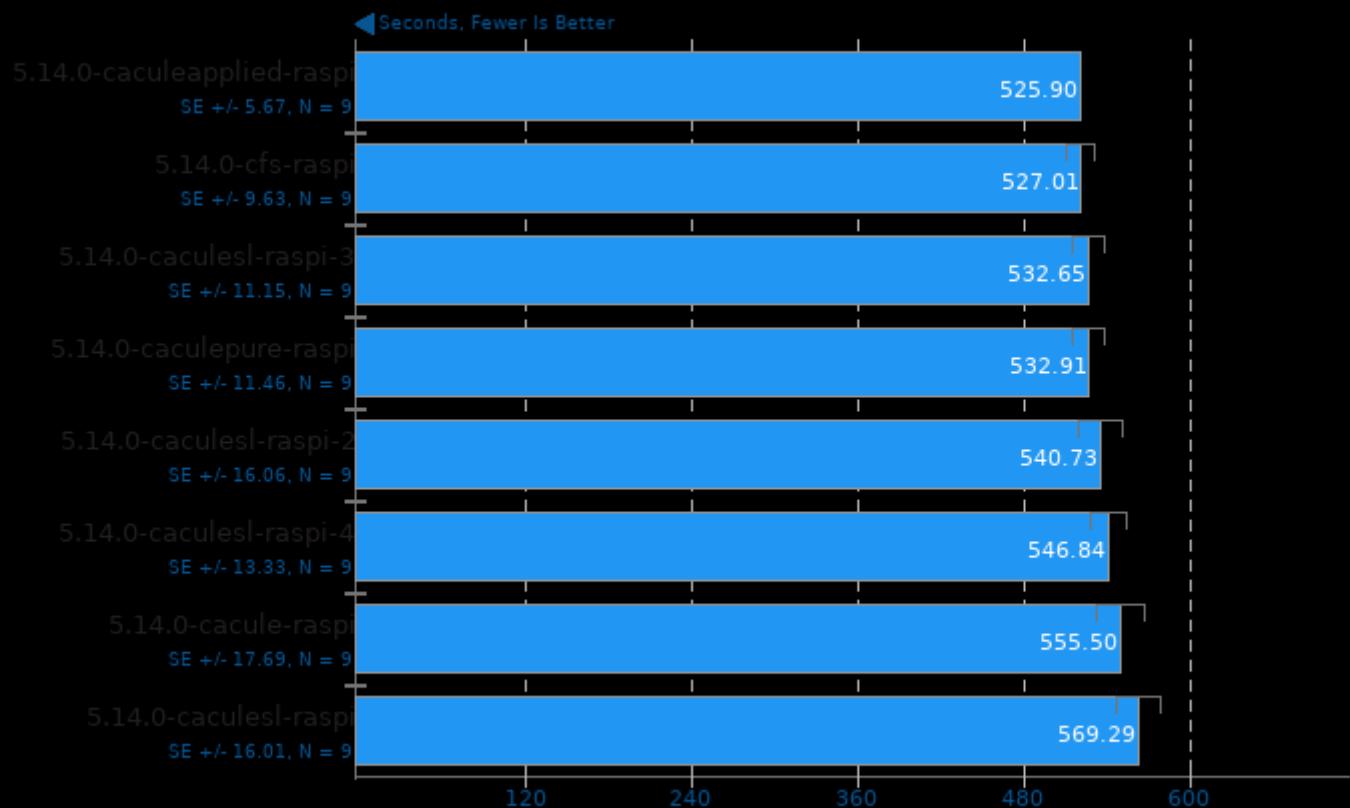
Total Time - 4K, 16 Rays Per Pixel



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

## Primesieve 7.4

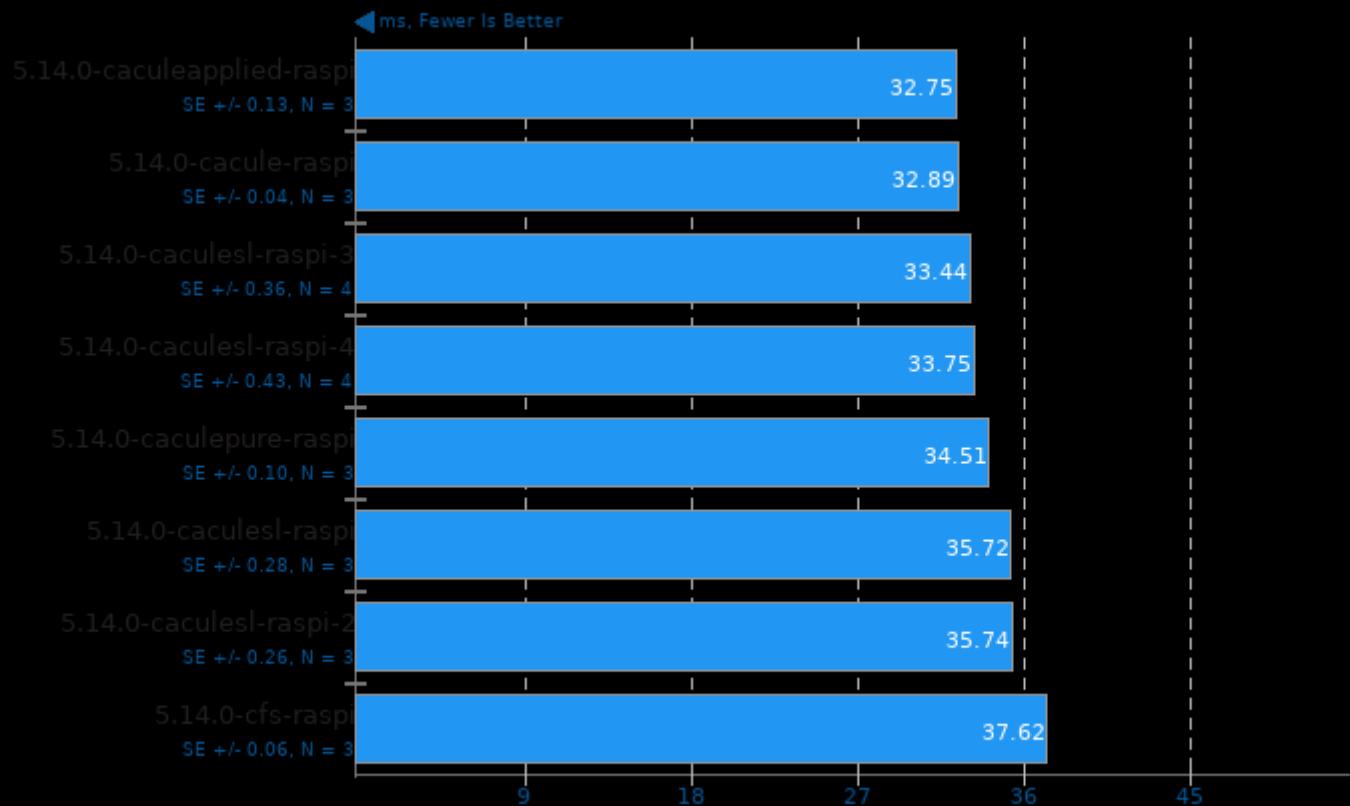
1e12 Prime Number Generation



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

## PostgreSQL pgbench 13.0

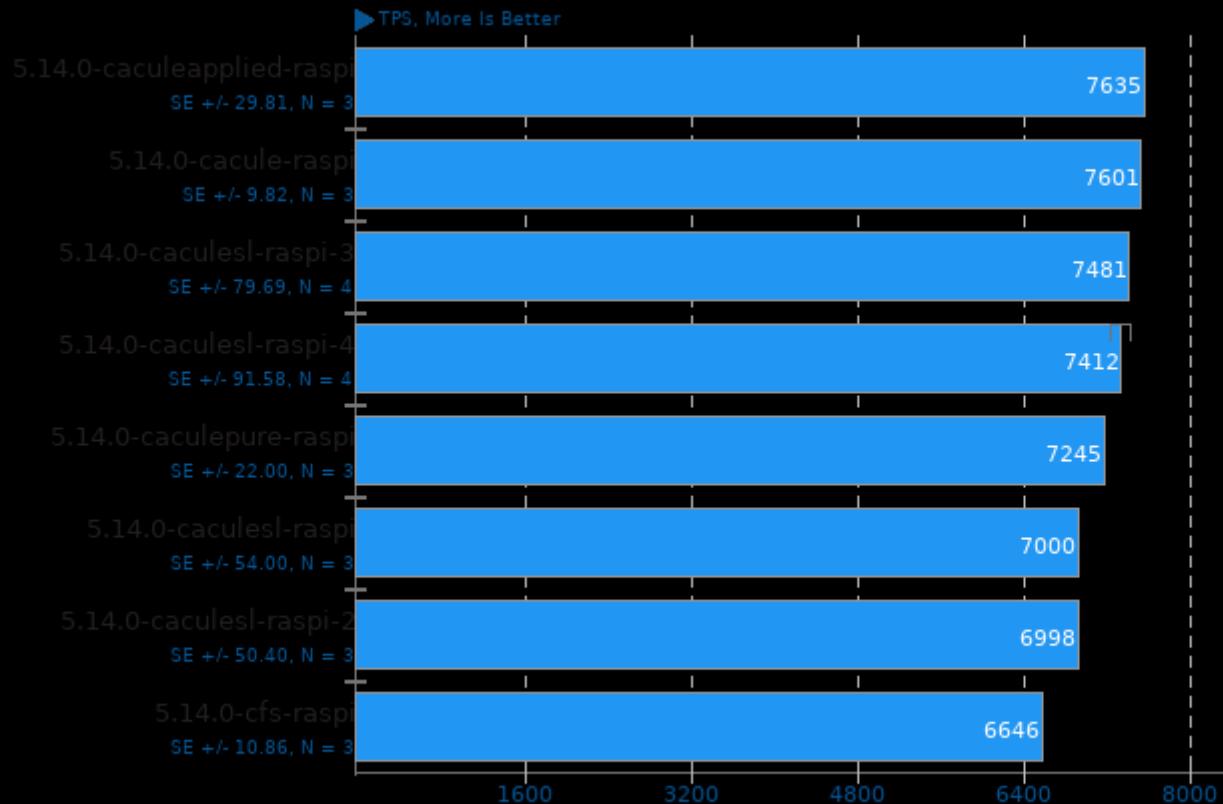
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

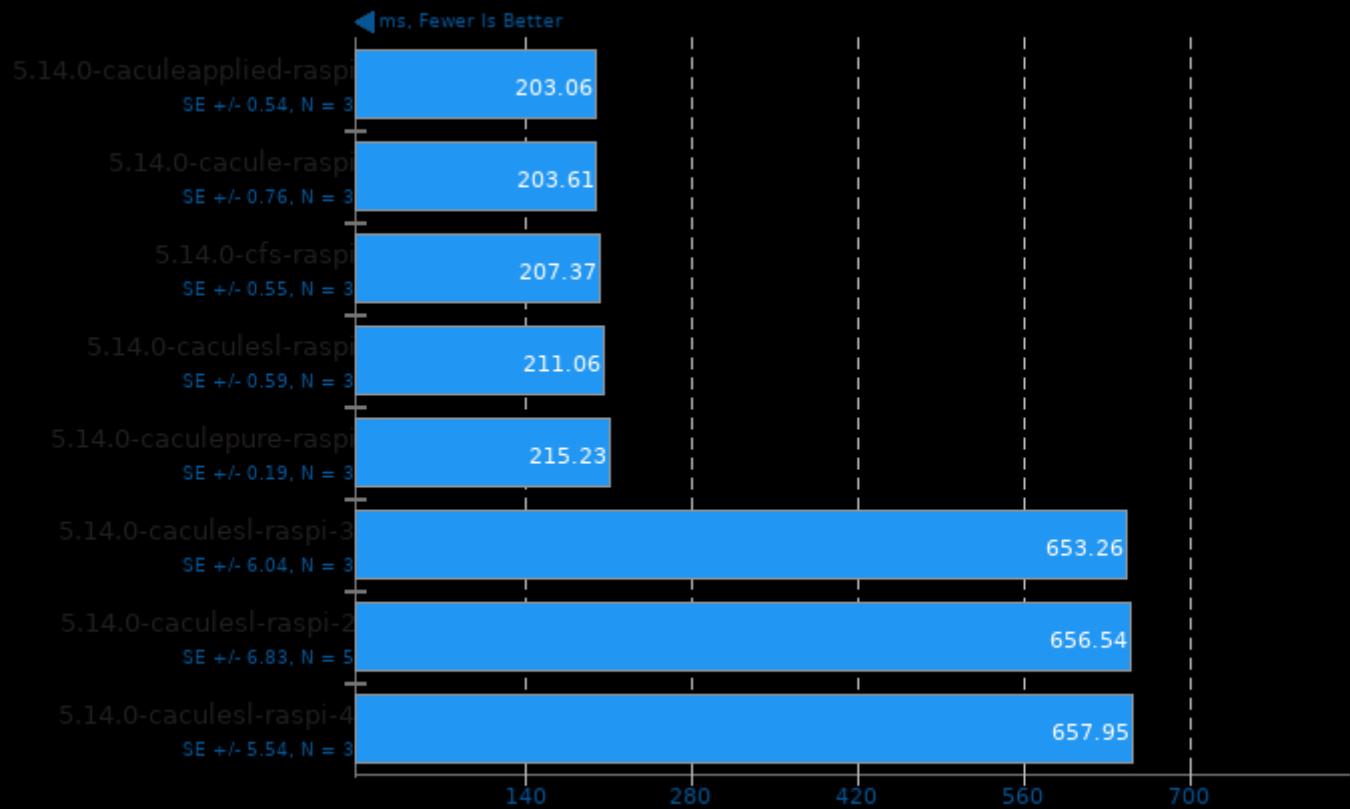
Scaling Factor: 100 - Clients: 250 - Mode: Read Only



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

## PostgreSQL pgbench 13.0

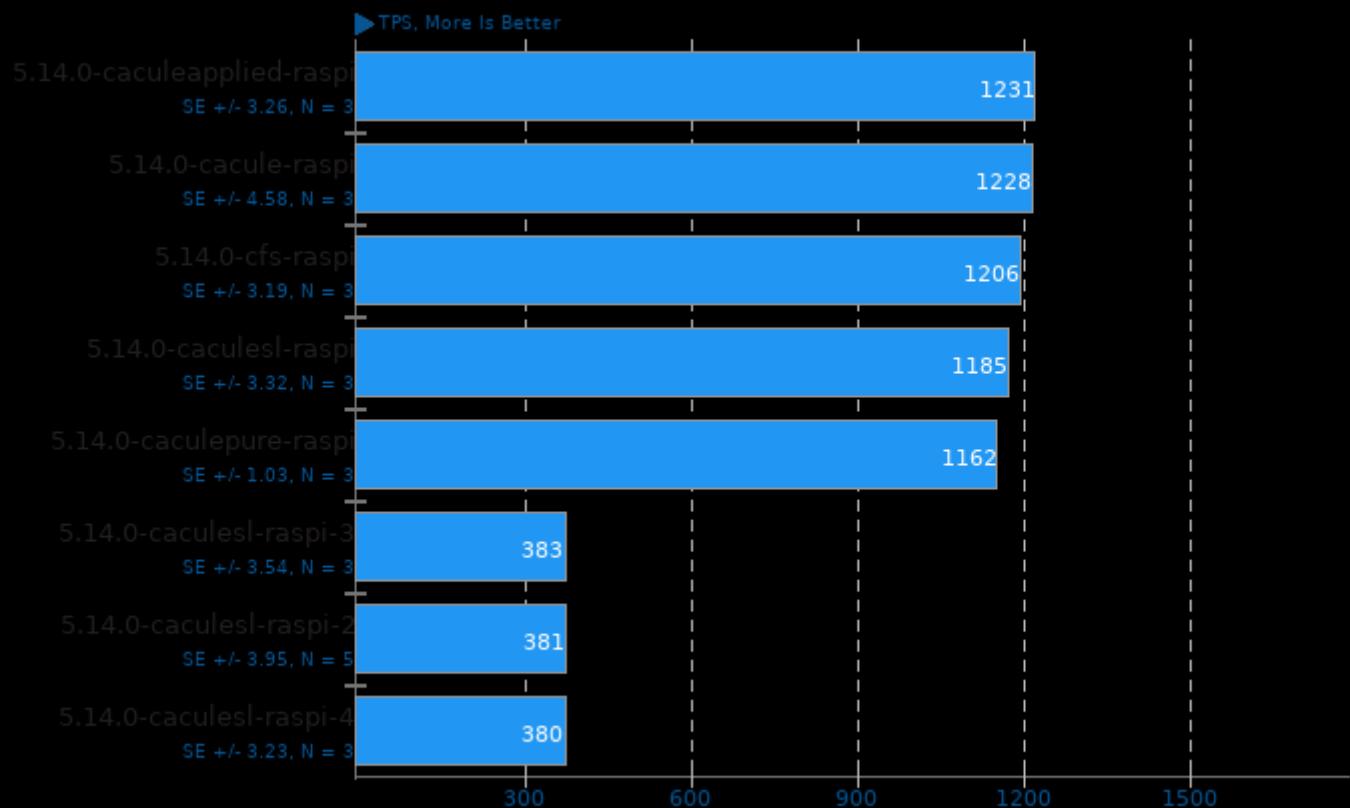
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

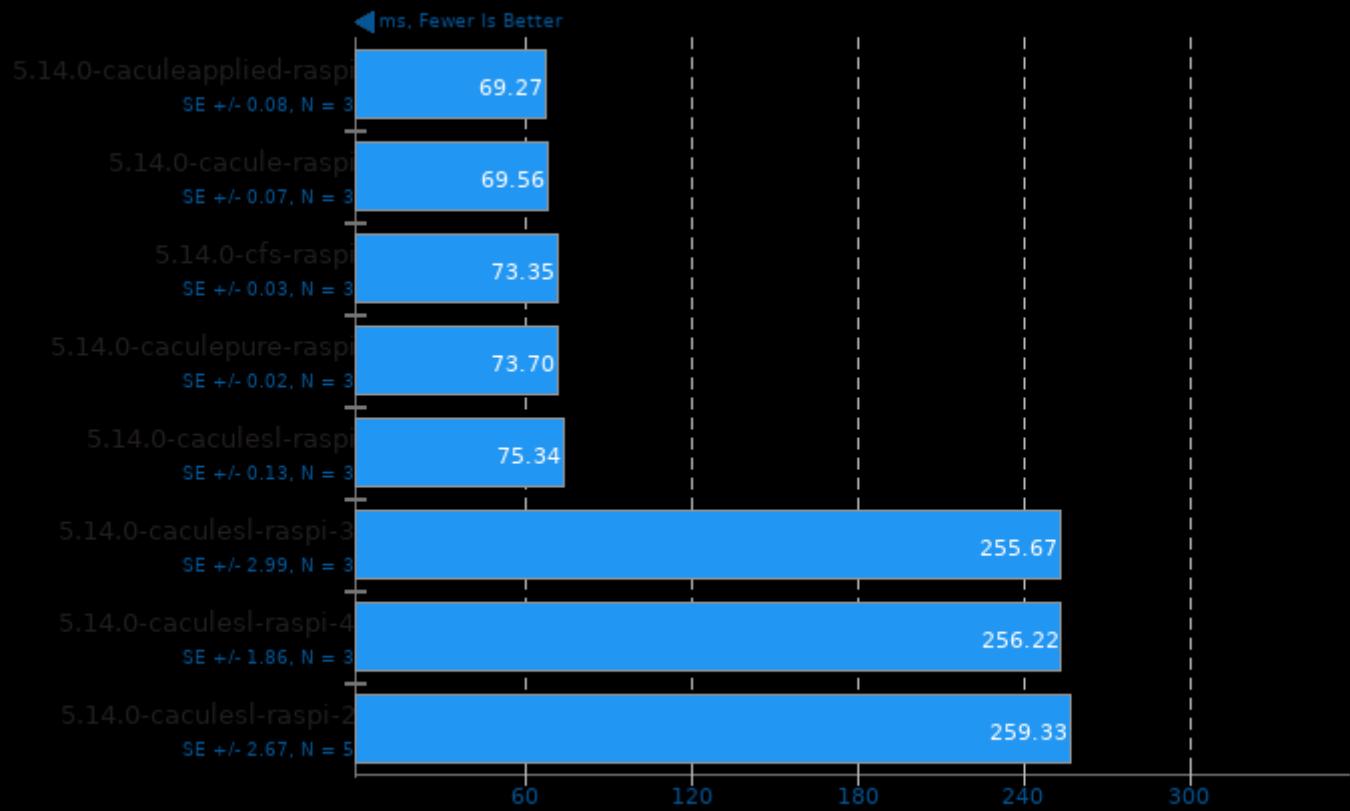
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

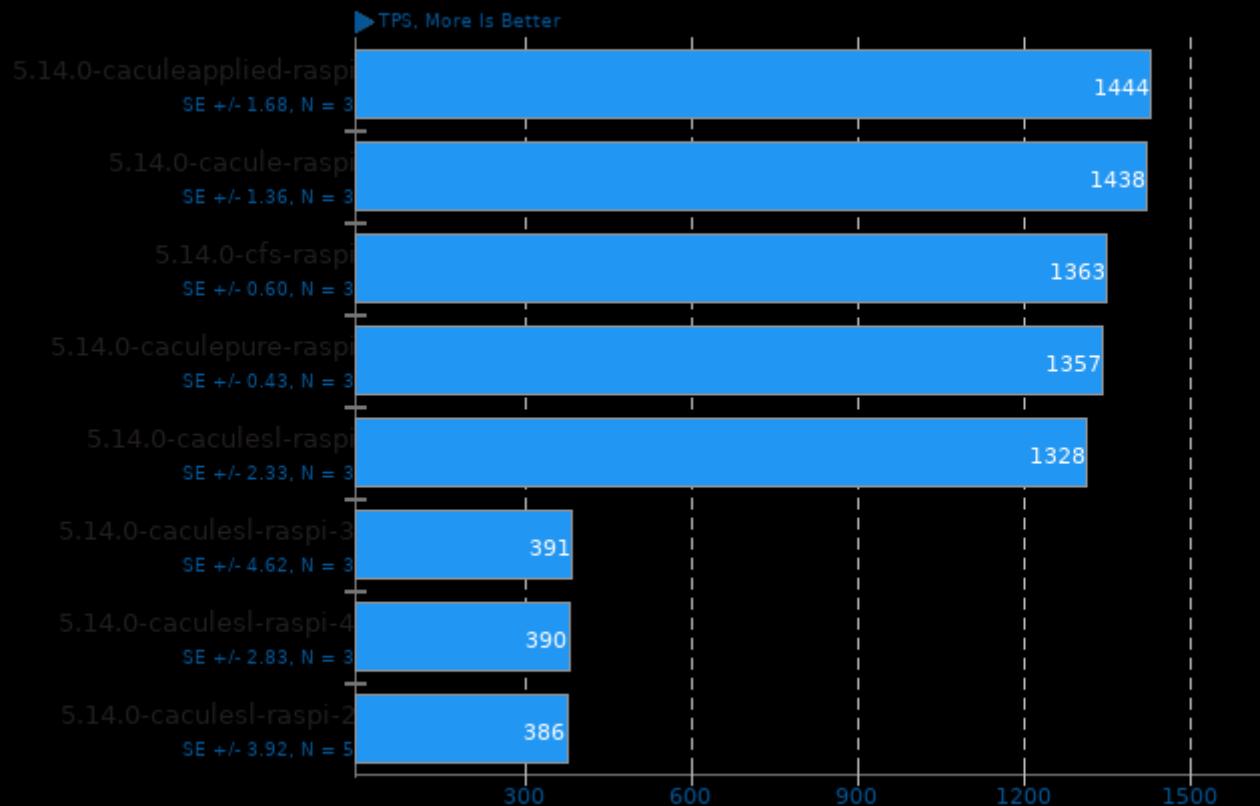
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

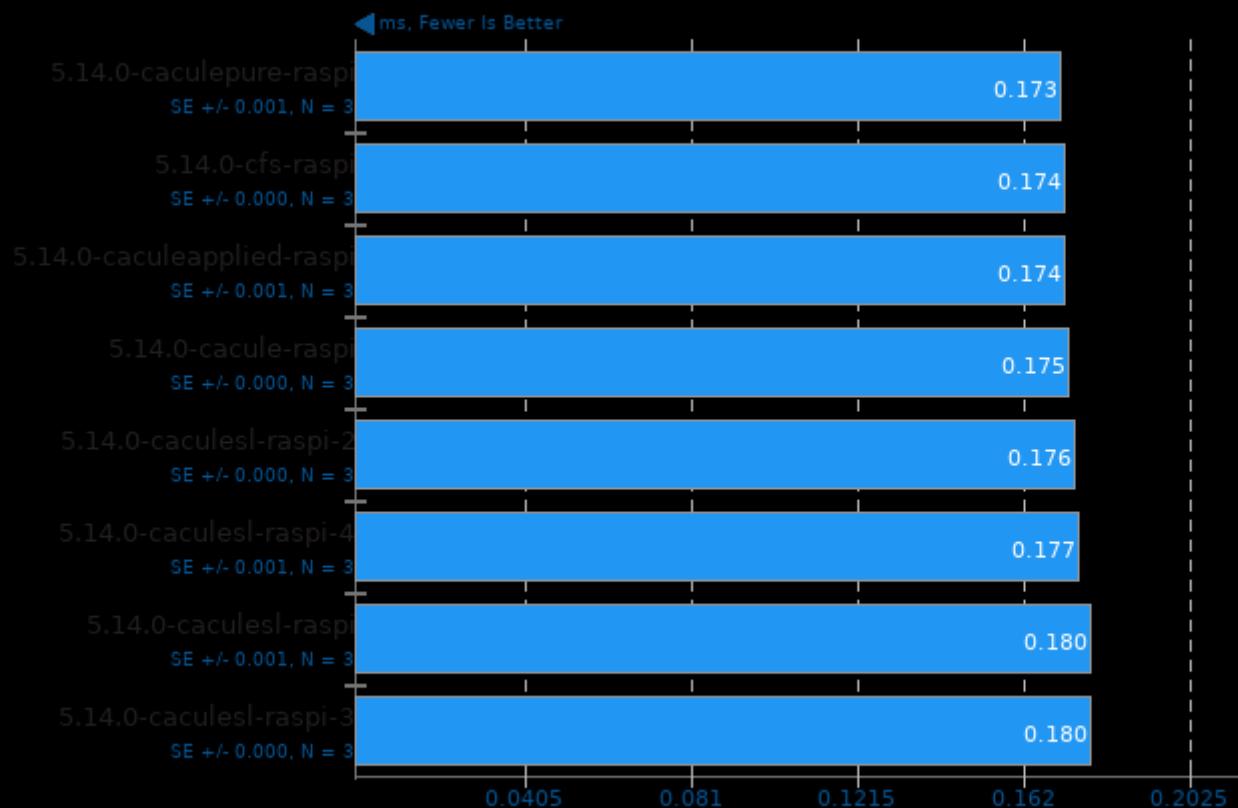
Scaling Factor: 100 - Clients: 100 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

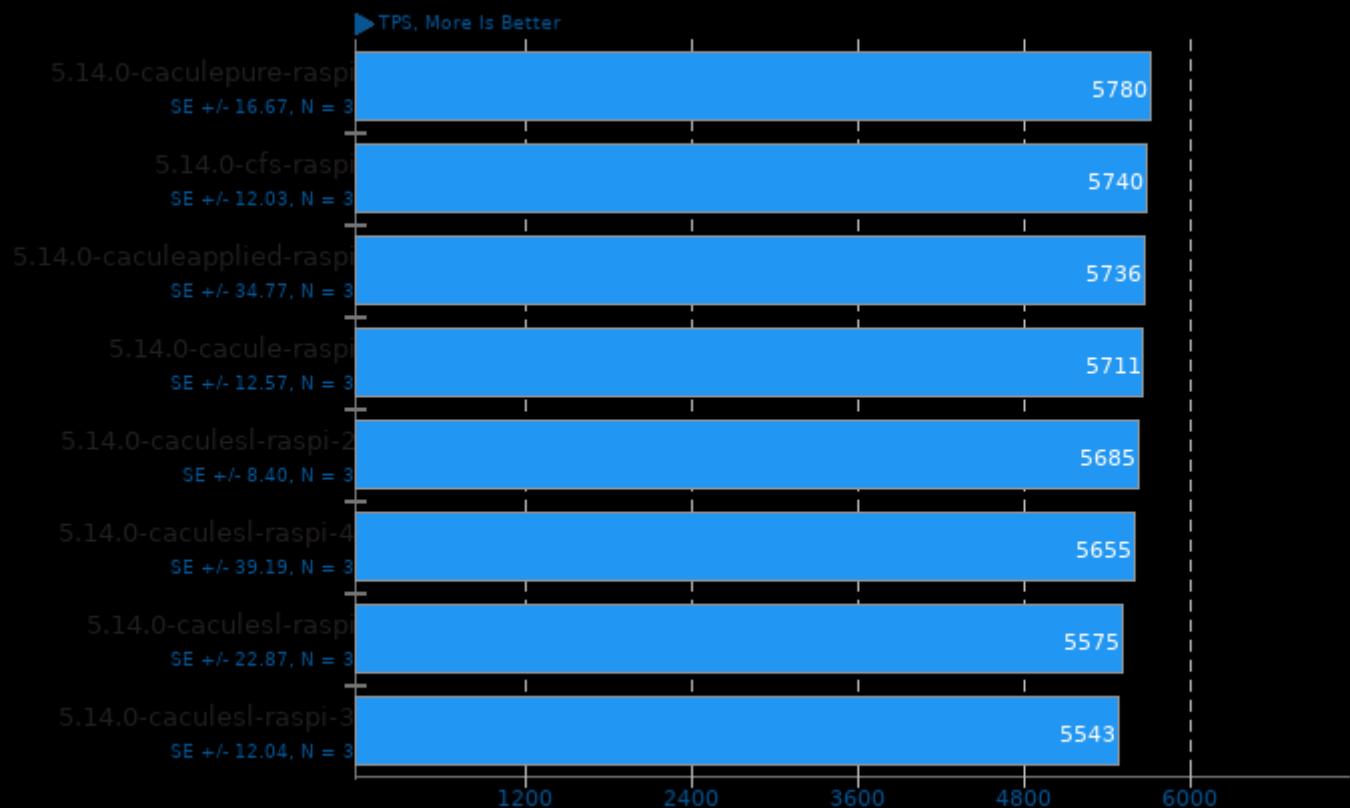
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

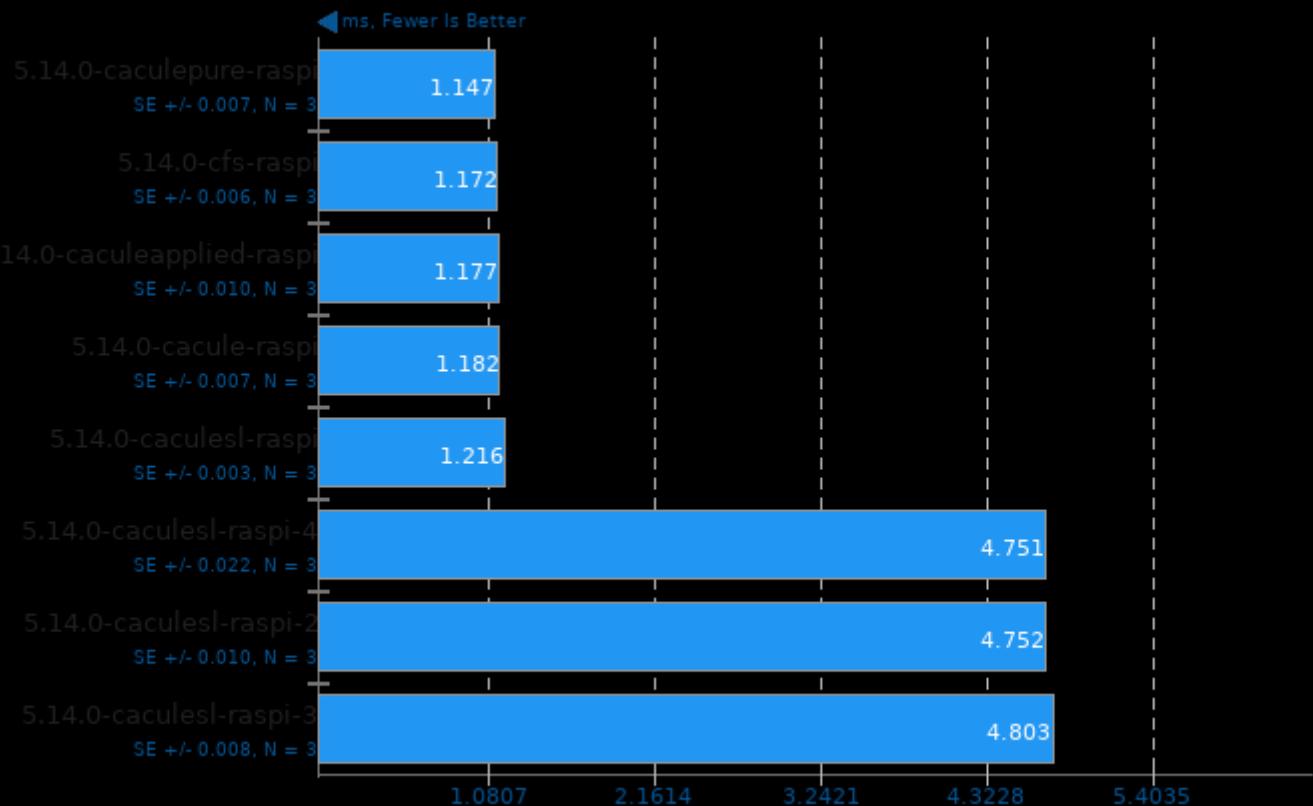
Scaling Factor: 100 - Clients: 1 - Mode: Read Only



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

## PostgreSQL pgbench 13.0

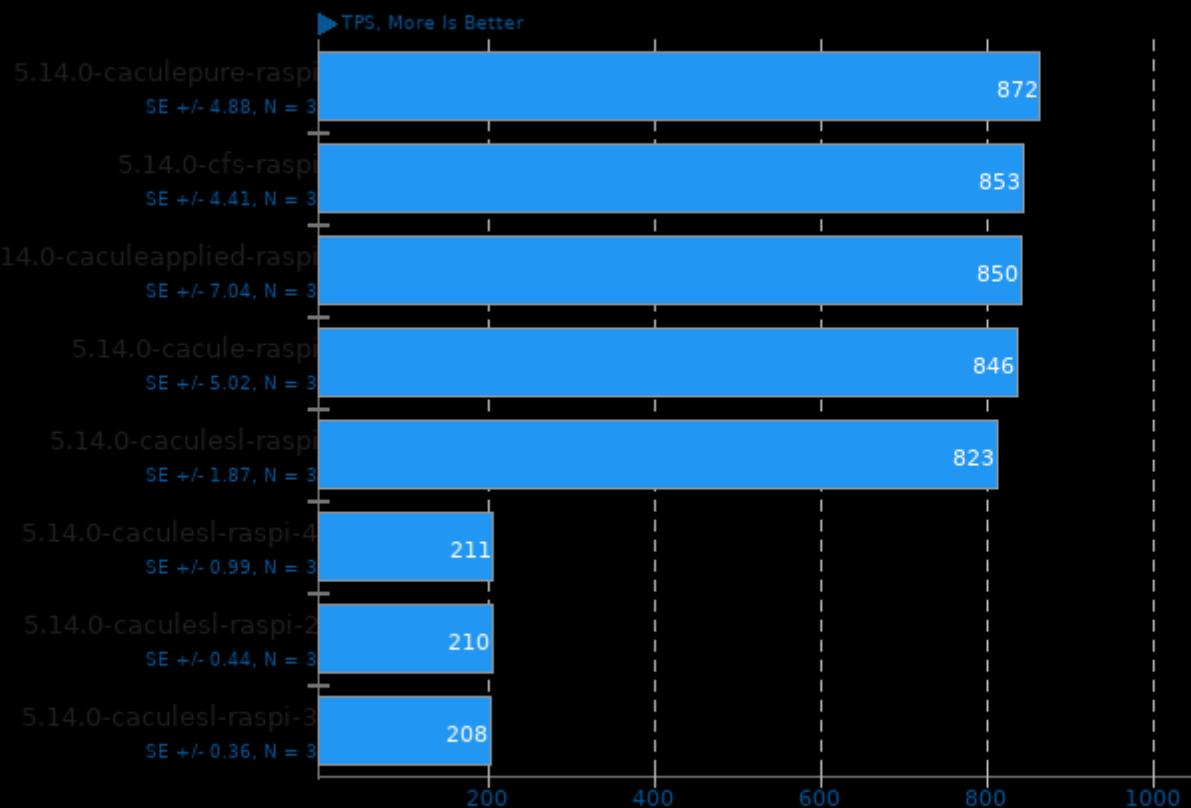
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

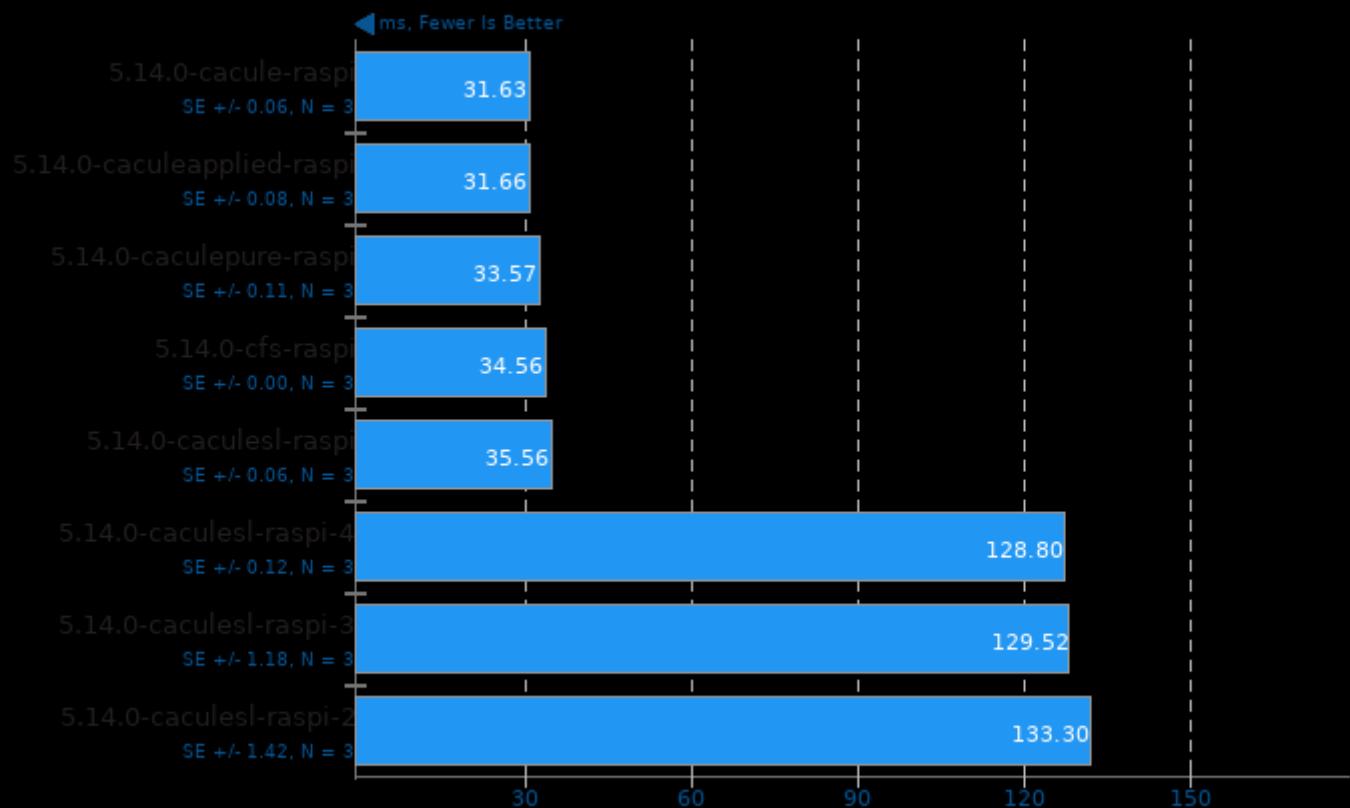
Scaling Factor: 100 - Clients: 1 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

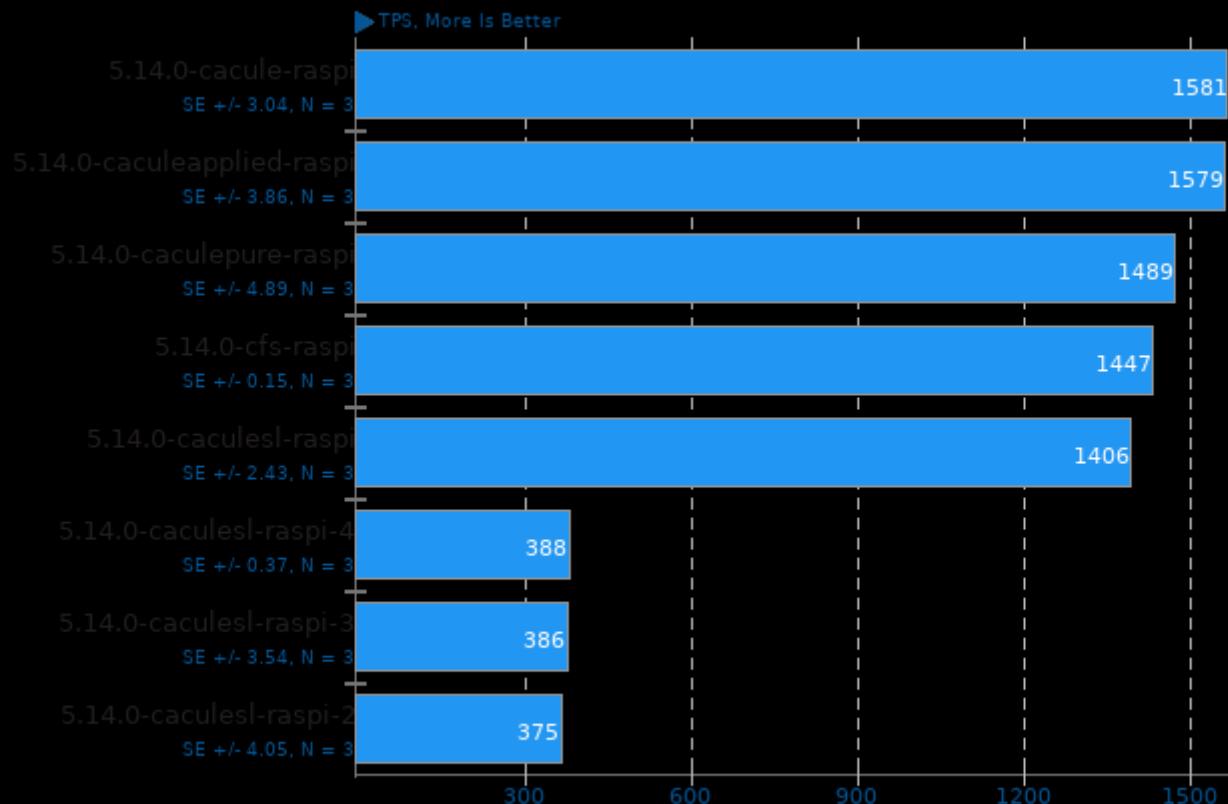
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



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

## PostgreSQL pgbench 13.0

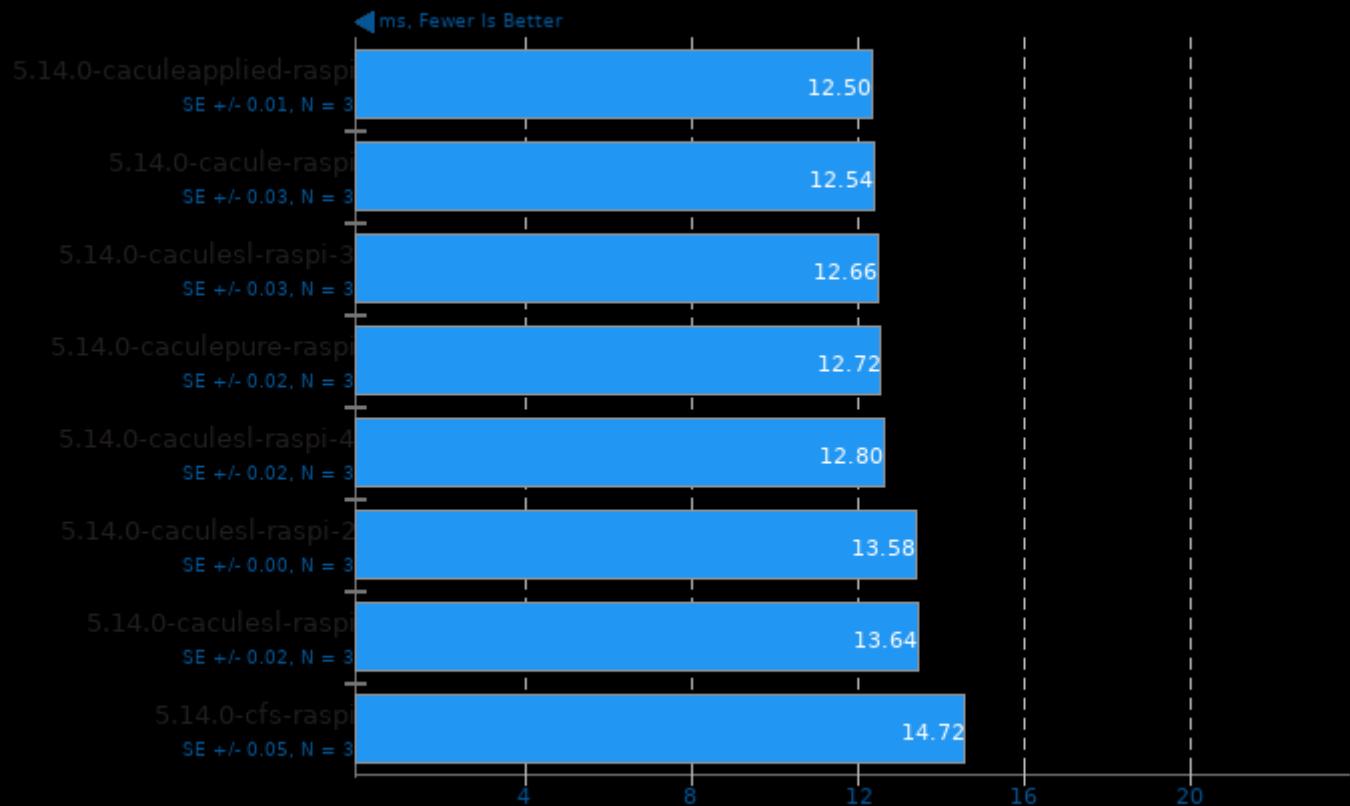
Scaling Factor: 100 - Clients: 50 - Mode: Read Write



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

## PostgreSQL pgbench 13.0

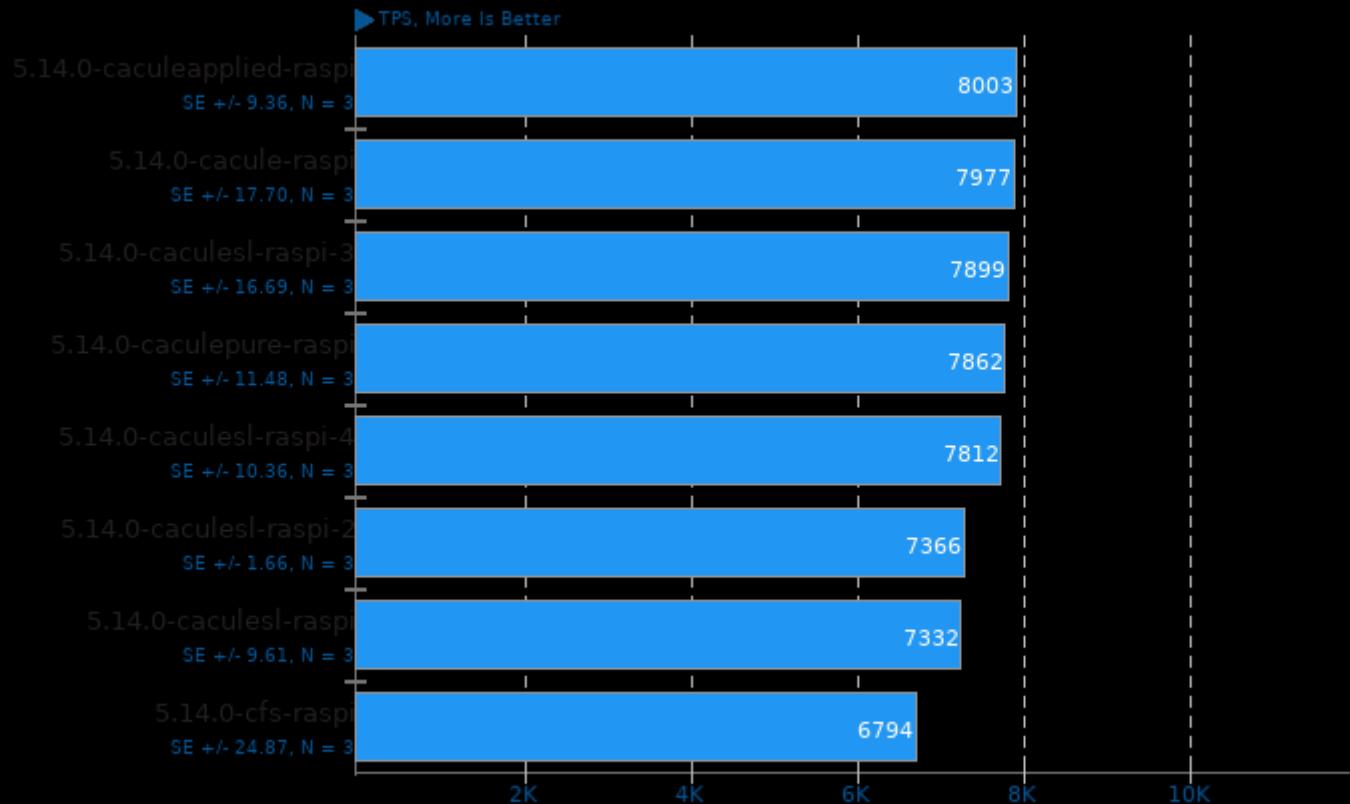
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

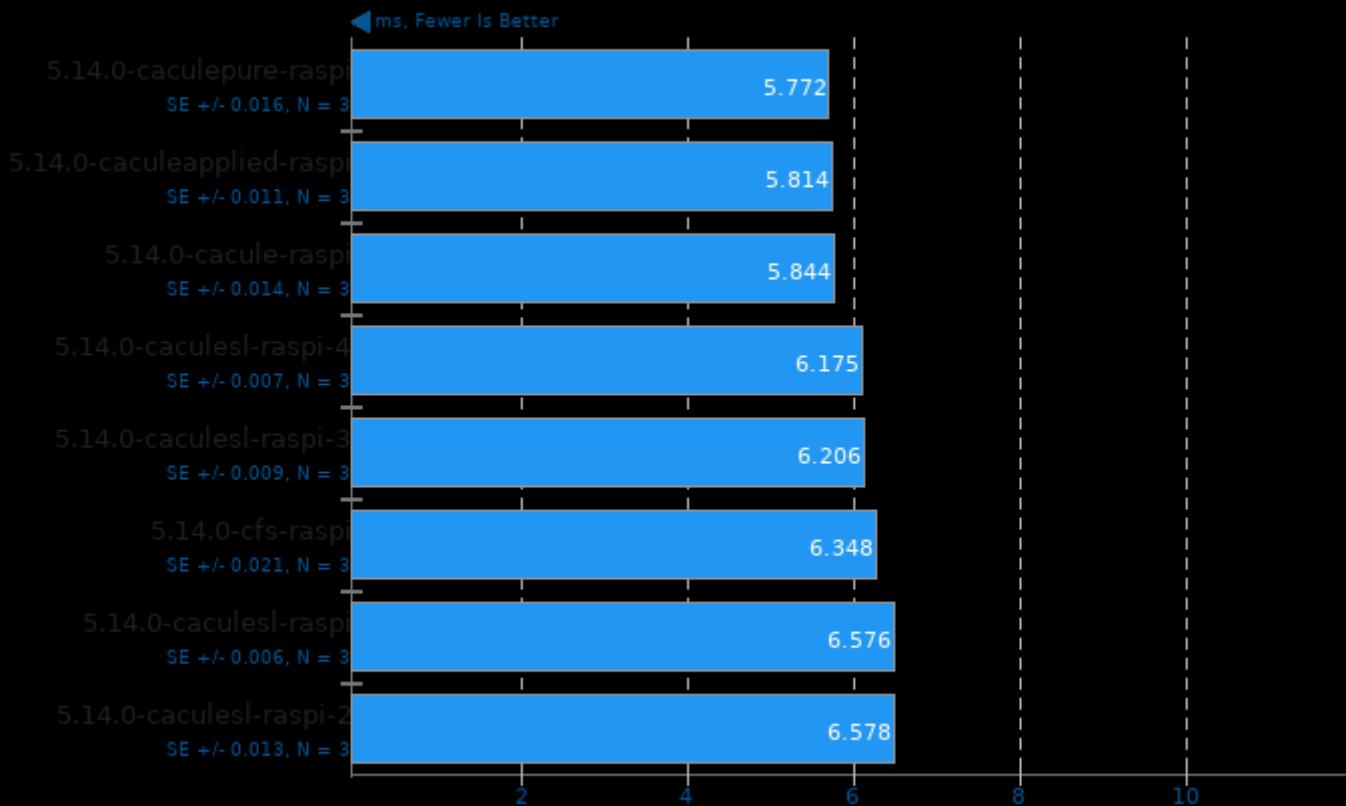
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



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

## PostgreSQL pgbench 13.0

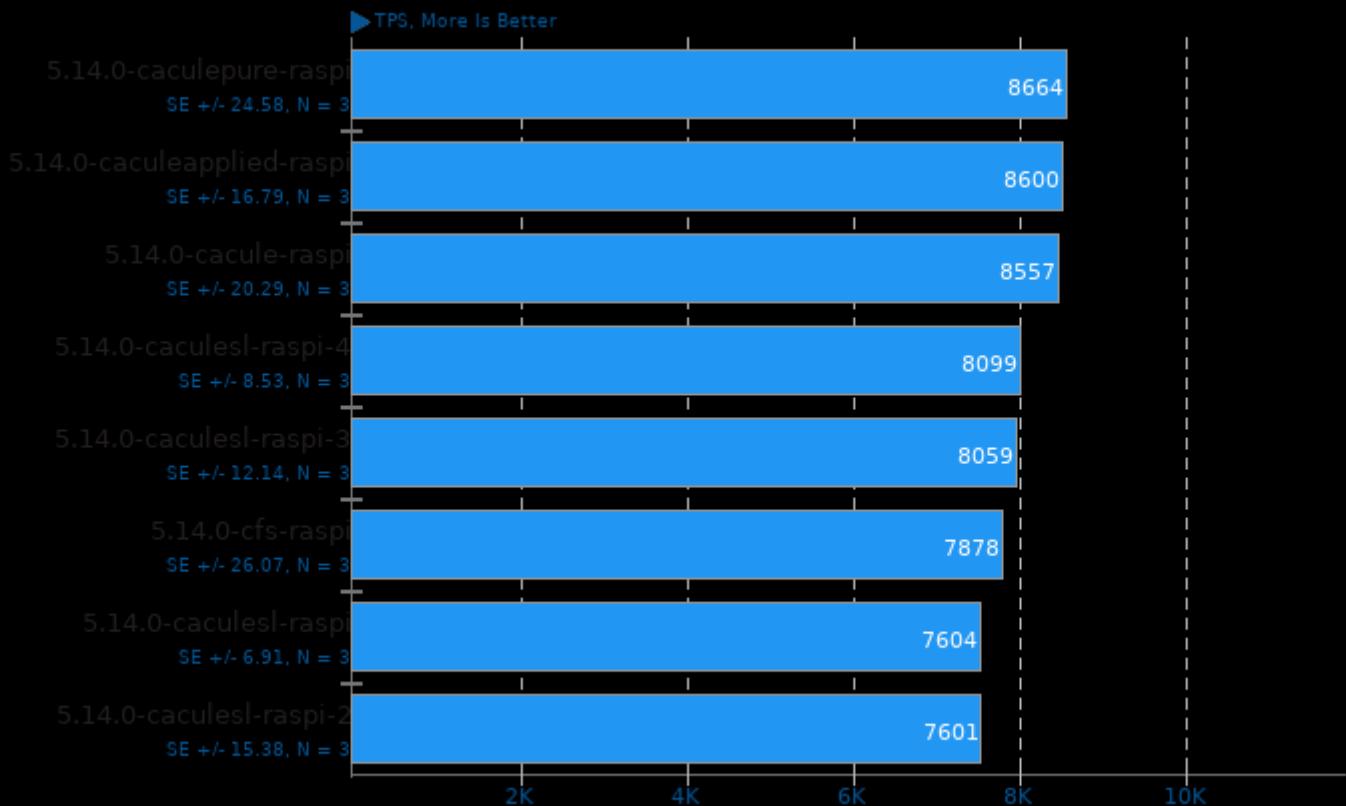
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

## PostgreSQL pgbench 13.0

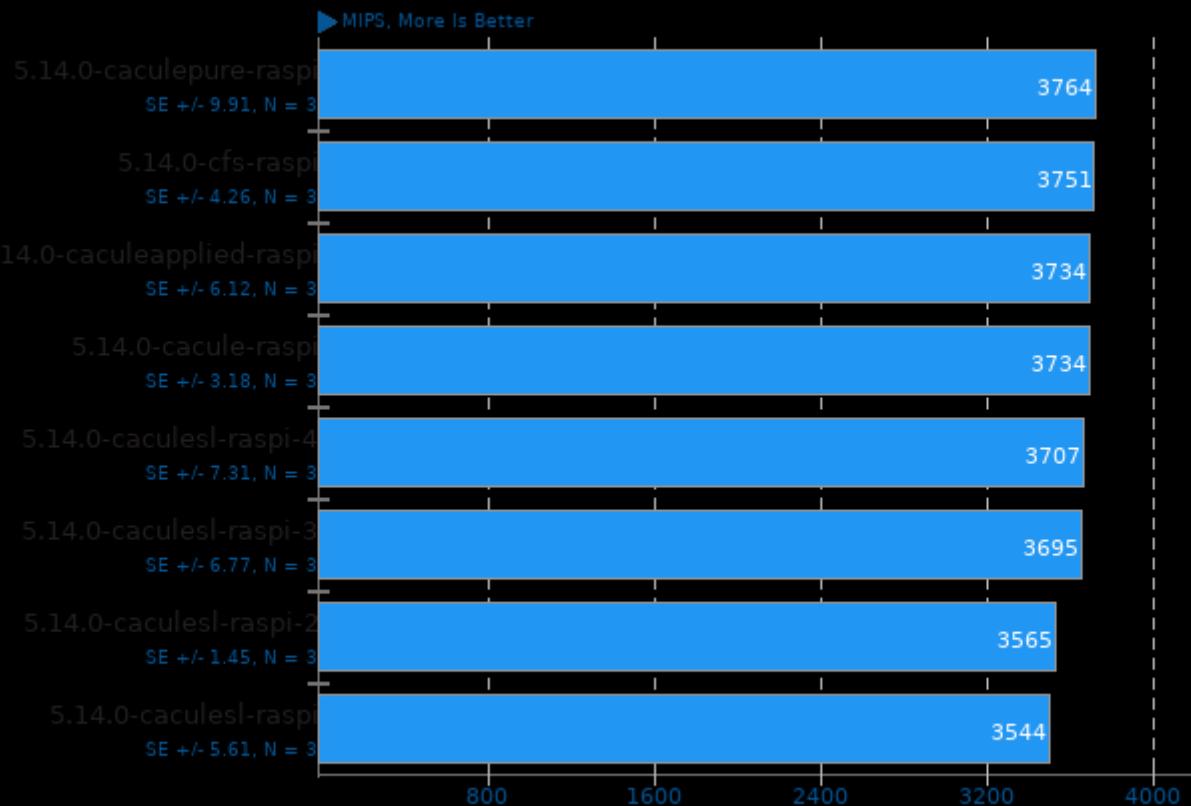
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



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

## 7-Zip Compression 16.02

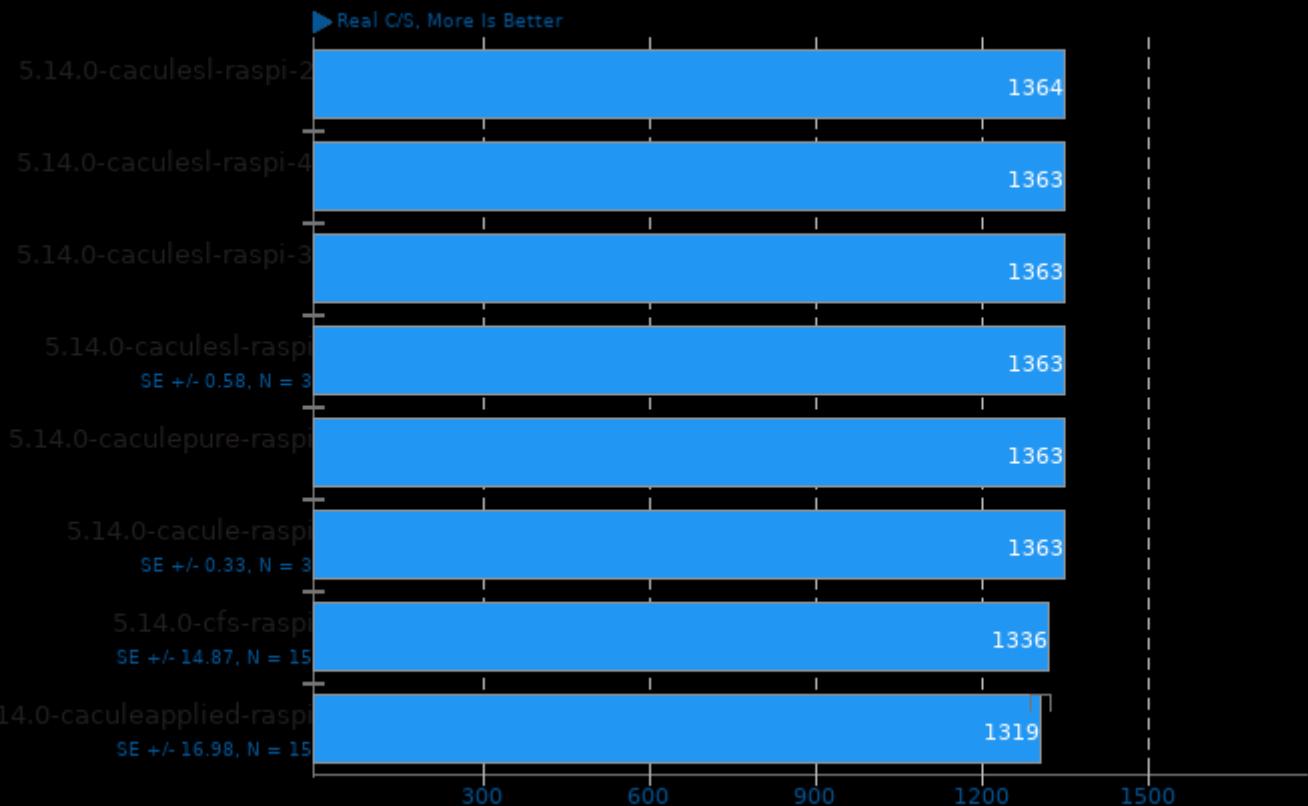
Compress Speed Test



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

## John The Ripper 1.9.0-jumbo-1

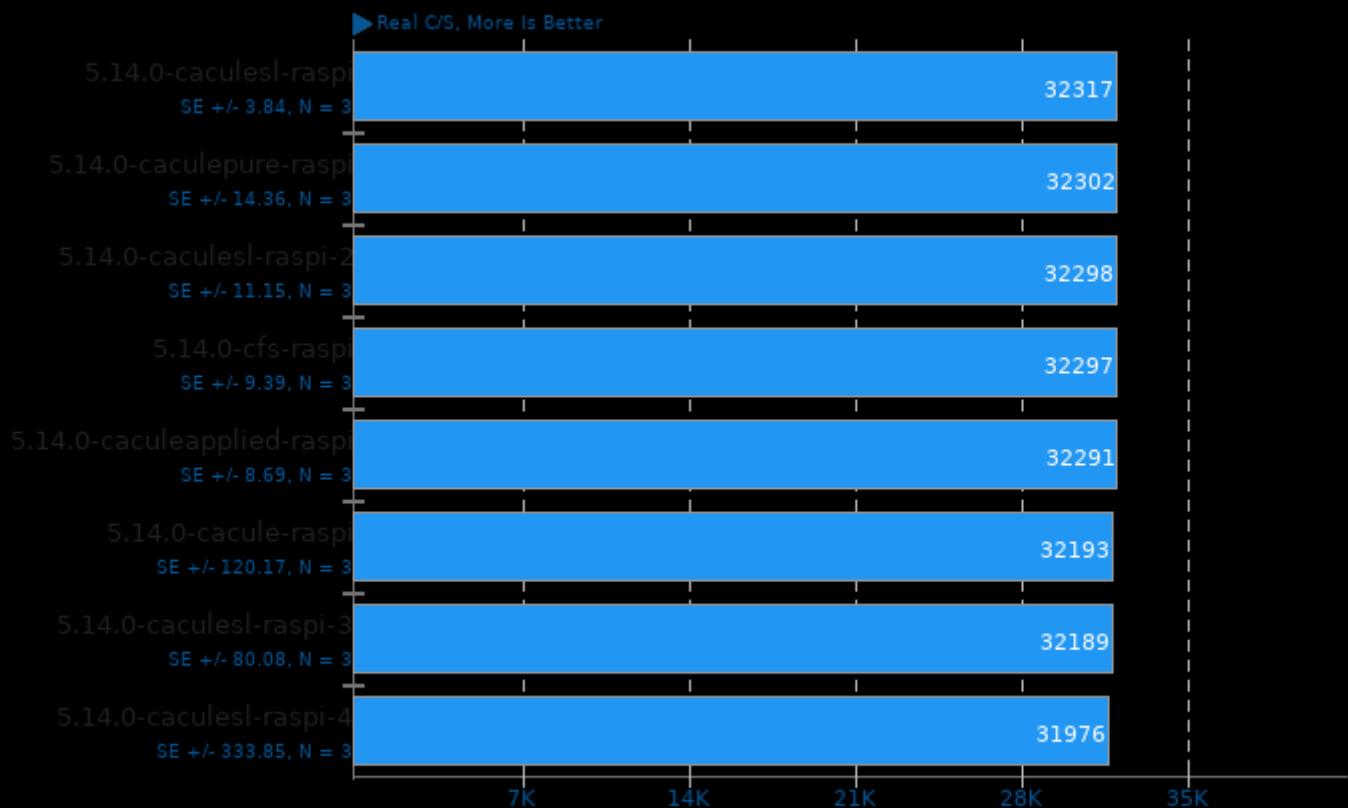
Test: Blowfish



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

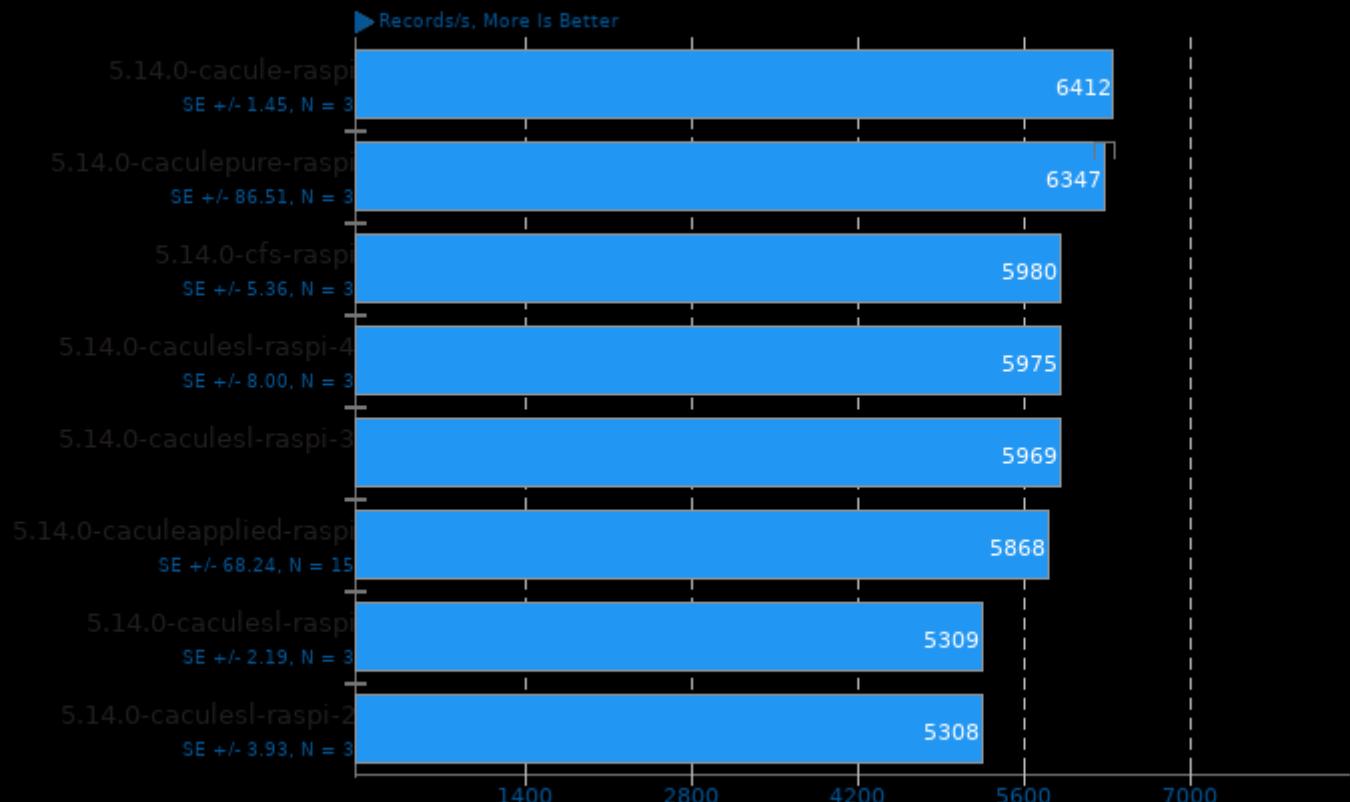
## John The Ripper 1.9.0-jumbo-1

Test: MD5



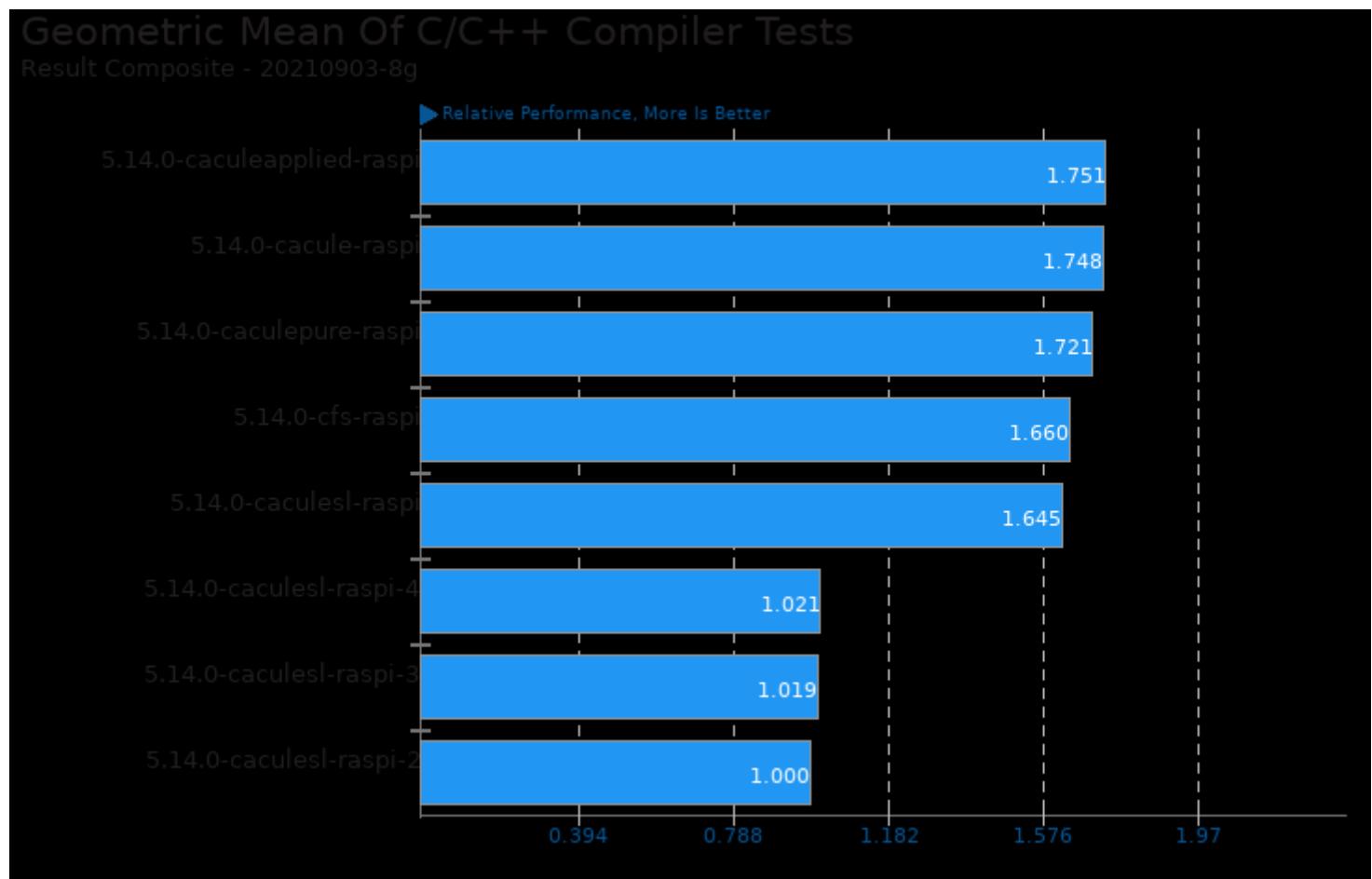
1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -ldl -lcrypt

## ebizzy 0.3



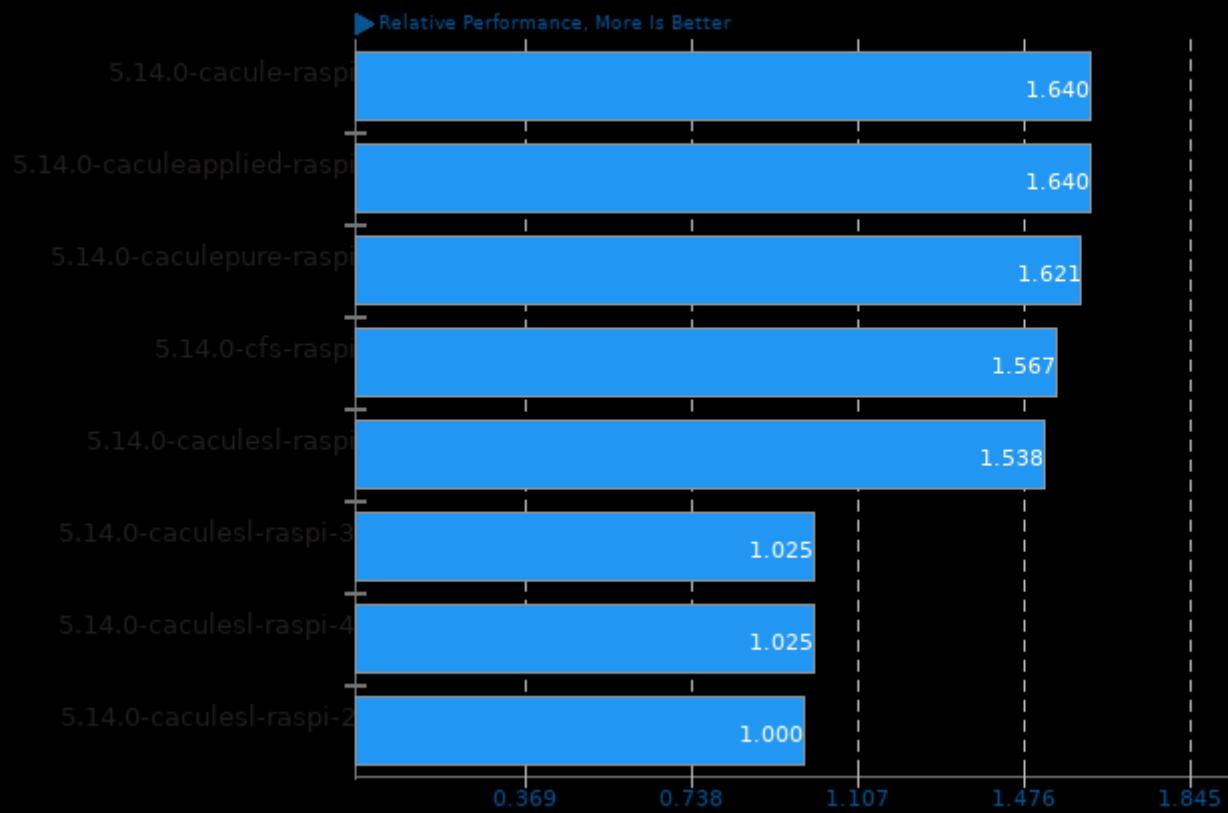
1. (CC) gcc options: -pthread -lpthread -O3 -march=native

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



## Geometric Mean Of CPU Massive Tests

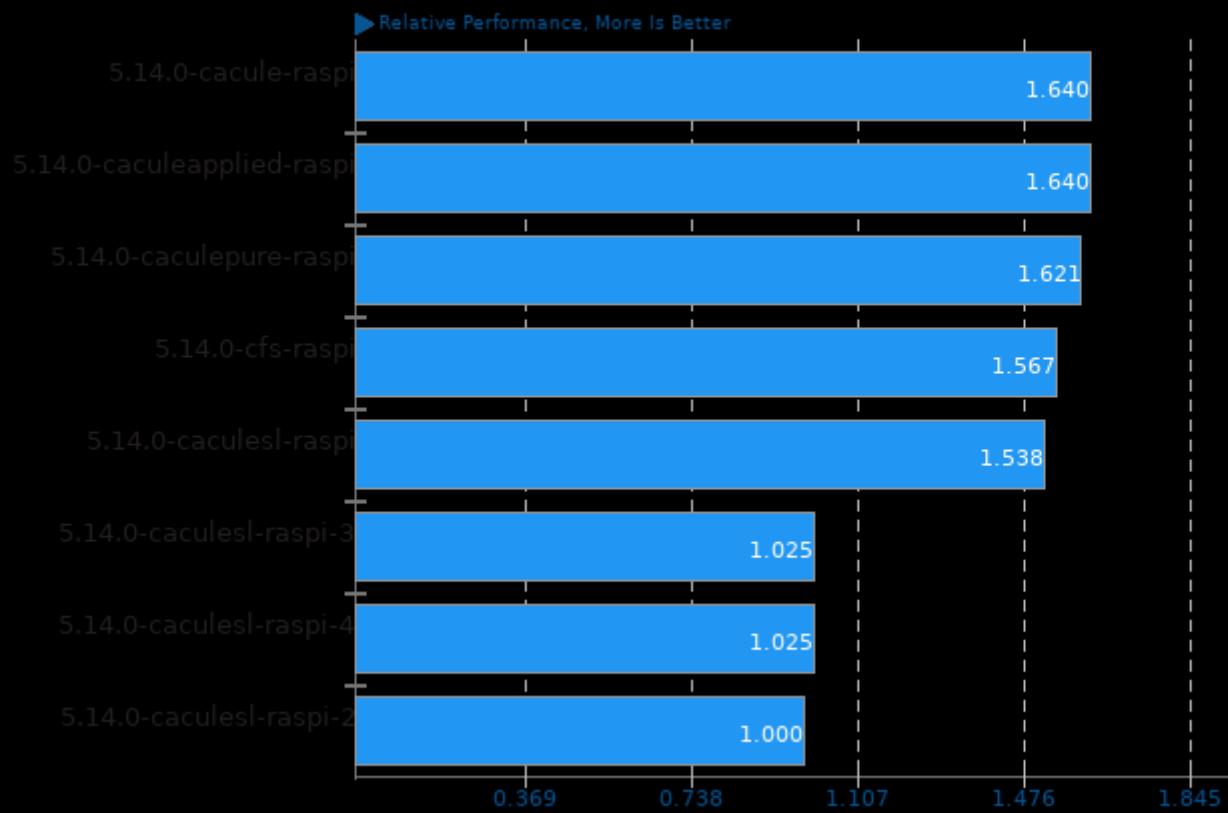
Result Composite - 20210903-8g



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

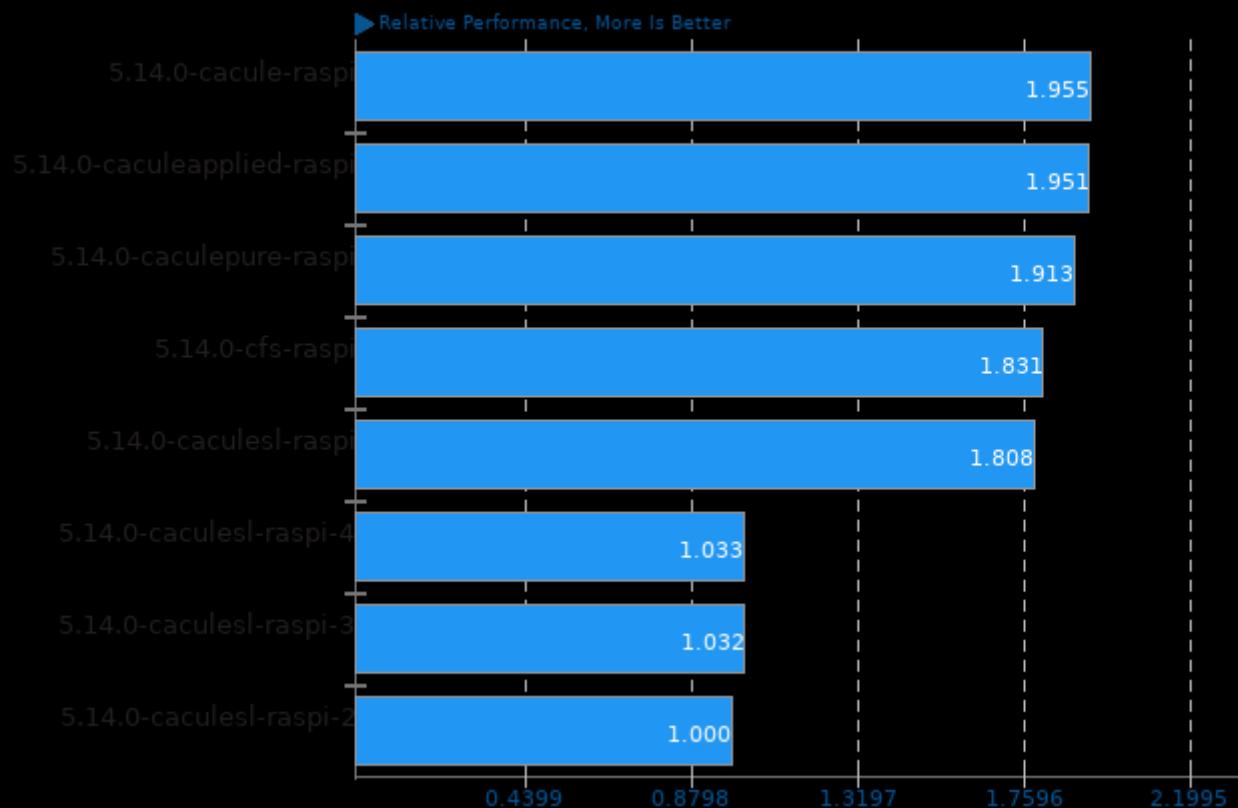
Result Composite - 20210903-8g



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

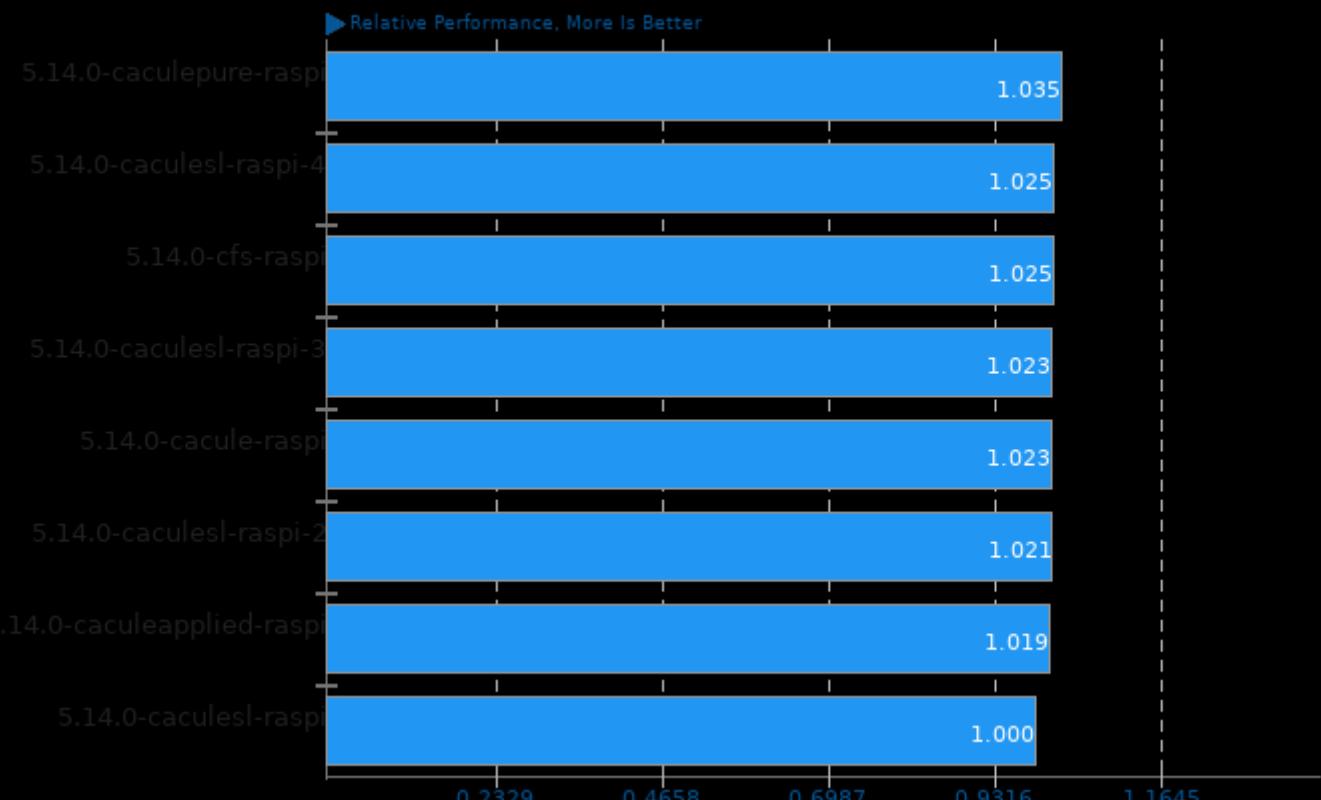
Result Composite - 20210903-8g



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 20:01.*