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stock-debian-kernel

KVM testing on Debian 11 via the Phoronix Test Suite.

Automated Executive Summary

stock-debian-kernel-testing-vo had the most wins, coming in first place for 46% of the tests.

Based on the geometric mean of all complete results, the fastest (stock-debian-kernel-testing-vo) was 1.121x the speed of the slowest (stable-xanmod-real-time-kernel-v5-10-35-rt39-vo). stock-debian-kernel was 0.985x the speed of stock-debian-kernel-testing-vo, latest-generic-kernel-v5-12-8-vo was 0.935x the speed of stock-debian-kernel, latest-xanmod-cacule-kernel-v5-12-8-x1-vo was 0.996x the speed of latest-generic-kernel-v5-12-8-vo, latest-lowlatency-kernel-v5-12-8-vo was 1x the speed of latest-xanmod-cacule-kernel-v5-12-8-x1-vo, latest-xanmod-kernel-v5-12-8-x1-vo was 0.999x the speed of latest-lowlatency-kernel-v5-12-8-vo, latest-generic-kernel-v5-12-8 was 0.997x the speed of latest-xanmod-kernel-v5-12-8-x1-vo, stable-xanmod-real-time-kernel-v5-10-35-rt39-vo was 0.977x the speed of latest-generic-kernel-v5-12-8.

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

Ethr (Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 16) at 20.382x

SQLite (Threads / Copies: 64) at 4.237x

PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency) at 2.532x

PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Only) at 2.287x

Core-Latency (Average Latency Between CPU Cores) at 2.164x

Ethr (Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 2) at 2.135x

CacheBench (Test: Read / Modify / Write) at 1.949x

Sample Pi Program at 1.843x

iPerf (Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: TCP - Parallel: 10) at 1.616x

Ethr (Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 2) at 1.588x.

Test Systems:

stock-debian-kernel

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM
QEMU, Disk: 82GB QEMU HDD, Graphics: virtiodrmfb

OS: Debian 10, Kernel: 4.19.0-16-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v

Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096

Processor Notes: CPU Microcode: 0x1000065

Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1deb10u1)

Python Notes: Python 2.7.16 + Python 3.7.3

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retroline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbd: Not affected + tsx_async_abort: Not affected

latest-generic-kernel-v5-12-8

latest-generic-kernel-v5-12-8-vo

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM
QEMU, Disk: 82GB QEMU HDD, Graphics: virtio_gpubrmfb, Monitor: QEMU Monitor

OS: Debian 11, Kernel: 5.12.8-051208-generic (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096

Processor Notes: CPU Microcode: 0x1000065

Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1)

Python Notes: Python 3.9.2

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swaps barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbd: Not affected + tsx_async_abort: Not affected

latest-lowlatency-kernel-v5-12-8-vo

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM
QEMU, Disk: 82GB QEMU HDD, Graphics: virtio_gpubrmfb, Monitor: QEMU Monitor

OS: Debian 11, Kernel: 5.12.8-051208-lowlatency (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1000065
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1)
Python Notes: Python 3.9.2
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbs: Not affected + tsx_async_abort: Not affected

stock-debian-kernel-testing-vo

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM
QEMU, Disk: 82GB QEMU HDD, Graphics: virtiodrmfb

OS: Debian 11, Kernel: 4.19.0-16-amd64 (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1000065
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1)
Python Notes: Python 3.9.2
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbs: Not affected + tsx_async_abort: Not affected

latest-xanmod-kernel-v5-12-8-x1-vo

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM
QEMU, Disk: 82GB QEMU HDD, Graphics: virtio_gpubrmfb, Monitor: QEMU Monitor

OS: Debian 11, Kernel: 5.12.8-xanmod1 (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: BFQ / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: CPU Microcode: 0x1000065
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1)

Python Notes: Python 3.9.2

Security Notes: `itlb_multihit`: Not affected + `l1tf`: Not affected + `mds`: Not affected + `meltdown`: Not affected + `spec_store_bypass`: Vulnerable + `spectre_v1`: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + `spectre_v2`: Vulnerable `IBPB`: disabled `STIBP`: disabled + `srbds`: Not affected + `tsx_async_abort`: Not affected

latest-xanmod-cacule-kernel-v5-12-8-x1-vo

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM QEMU, Disk: 82GB QEMU HDD, Graphics: `virtio_gpudrmfb`, Monitor: QEMU Monitor

OS: Debian 11, Kernel: 5.12.8-xanmod1-cacule (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: `madvise`

Compiler Notes: `--build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v`

Disk Notes: BFQ / errors=remount-ro,relatime,rw / Block Size: 4096

Processor Notes: CPU Microcode: 0x1000065

Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1)

Python Notes: Python 3.9.2

Security Notes: `itlb_multihit`: Not affected + `l1tf`: Not affected + `mds`: Not affected + `meltdown`: Not affected + `spec_store_bypass`: Vulnerable + `spectre_v1`: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + `spectre_v2`: Vulnerable `IBPB`: disabled `STIBP`: disabled + `srbds`: Not affected + `tsx_async_abort`: Not affected

stable-xanmod-real-time-kernel-v5-10-35-rt39-vo

Processor: AMD EPYC (1 Core / 2 Threads), Motherboard: Hetzner vServer v20171111, Memory: 1 x 8000 MB RAM QEMU, Disk: 82GB QEMU HDD, Graphics: `virtio_gpudrmfb`, Monitor: QEMU Monitor

OS: Debian 11, Kernel: 5.10.35-rt39-xanmod1 (x86_64), Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Compiler Notes: `--build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v`

Disk Notes: BFQ / errors=remount-ro,relatime,rw / Block Size: 4096

Processor Notes: CPU Microcode: 0x1000065

Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-post-Debian-1)

Python Notes: Python 3.9.2

Security Notes: `itlb_multihit`: Not affected + `l1tf`: Not affected + `mds`: Not affected + `meltdown`: Not affected + `spec_store_bypass`: Vulnerable + `spectre_v1`: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + `spectre_v2`: Vulnerable `IBPB`: disabled `STIBP`: disabled + `srbds`: Not affected + `tsx_async_abort`: Not affected

	stock-debian-kernel	latest-gene-ric-kernel-v5-12-8	latest-gene-ric-kernel-v5-12-8-vo	latest-lowl-ateny-kerne-v5-12-8-vo	stock-debian-kernel-testing-vo	latest-xan-mod-kerne-l-v5-12-8-x-vo	latest-xan-mod-cacul-e-kernel-v5-12-8-x1-vo	stable-xan-mod-real-time-kernel-v5-10-35-rt-39-vo
SQLite - 1 (sec)	7.779	8.996	9.170	9.009	8.188	8.237	8.608	8.629
Normalized	100%	86.47%	84.83%	86.35%	95%	94.44%	90.37%	90.15%
Standard Deviation	4.1%	3.3%	2.1%	2.3%	4.8%	4.5%	2.2%	8%
SQLite - 8 (sec)	19.072	23.693	24.958	24.410	21.168	38.003	39.957	98.812
Normalized	100%	80.5%	76.42%	78.13%	90.1%	50.19%	47.73%	19.3%
Standard Deviation	2.2%	2.5%	1.6%	2.4%	4.1%	6.1%	9.4%	11.7%
SQLite - 32 (sec)	40.685	45.133	49.947	47.132	46.317	85.202	78.804	220.525
Normalized	100%	90.14%	81.46%	86.32%	87.84%	47.75%	51.63%	18.45%
Standard Deviation	0.5%	1.1%	2.3%	1.2%	0.7%	17.4%	11.1%	25.6%
SQLite - 64 (sec)	68.744	156.343	140.859	114.406	85.772	146.417	149.045	291.273
Normalized	100%	43.97%	48.8%	60.09%	80.15%	46.95%	46.12%	23.6%
Standard Deviation	0.1%	9.2%	3.6%	1.5%	0.9%	2.5%	2.4%	10.7%
SQLite - 128 (sec)	145.002	405.728	368.323	259.511	174.849	358.743	359.821	603.886
Normalized	100%	35.74%	39.37%	55.88%	82.93%	40.42%	40.3%	24.01%
Standard Deviation	1.3%	1.4%	0.7%	0.9%	11.9%	7.8%	8.7%	4.2%
RAMspeed SMP - Add - Integer (MB/s)	33565	30939	31989	31708	33240	31705	31926	31812
Normalized	100%	92.18%	95.31%	94.47%	99.03%	94.46%	95.12%	94.78%
Standard Deviation	0.4%	0.5%	0.2%	0.5%	0.6%	0.1%	0.3%	0.3%
RAMspeed SMP - Copy - Integer (MB/s)	36186	30491	31702	31610	35626	31680	32176	31592
Normalized	100%	84.26%	87.61%	87.36%	98.45%	87.55%	88.92%	87.3%
Standard Deviation	0.6%	0.2%	0.5%	0.1%	0.1%	0.4%	0.1%	0.3%
RAMspeed SMP - Scale - Integer (MB/s)	37470	34954	35164	35004	37217	34978	35442	35122
Normalized	100%	93.29%	93.85%	93.42%	99.33%	93.35%	94.59%	93.73%
Standard Deviation	0.6%	0.5%	0.5%	0.1%	0.1%	0.5%	0.5%	0.9%
RAMspeed SMP - Triad - Integer (MB/s)	35096	32593	32888	32955	34385	32706	32913	32823
Normalized	100%	92.87%	93.71%	93.9%	97.97%	93.19%	93.78%	93.52%
Standard Deviation	0.3%	0.6%	0.2%	0.7%	0.1%	0.5%	1.2%	0.3%
RAMspeed SMP - Average - Integer	35184	32141	32995	32826	35165	32985	32974	32875
Normalized	100%	91.35%	93.78%	93.3%	99.94%	93.75%	93.72%	93.44%
Standard Deviation	1.3%	0.5%	0.8%	0.2%	0.2%	0.4%	1%	0.3%
RAMspeed SMP - Add - Floating Point (MB/s)	32805	31297	32025	31954	33321	31795	31931	32009
Normalized	98.45%	93.92%	96.11%	95.9%	100%	95.42%	95.83%	96.06%
Standard Deviation	0.7%	0.4%	0.3%	0.2%	0.2%	1%	0.1%	0.4%
RAMspeed SMP - Copy - Floating Point (MB/s)	36289	30367	31823	31392	35570	31617	31821	31463
Normalized	100%	83.68%	87.69%	86.5%	98.02%	87.12%	87.69%	86.7%
Standard Deviation	0.1%	0.7%	0.1%	0.5%	0.2%	0.2%	0.2%	0.3%
RAMspeed SMP - Scale - Floating Point (MB/s)	35943	30445	31963	31587	35585	31696	32192	31598
Normalized	100%	84.7%	88.93%	87.88%	99%	88.18%	89.56%	87.91%
Standard Deviation	0.4%	0.9%	0%	0.1%	0.2%	0.1%	0%	0.2%

RAMspeed SMP - Triad - Floating Point (MB/s)	33747	31464	32058	31950	33252	31819	32308	31798
Normalized	100%	93.23%	94.99%	94.67%	98.53%	94.29%	95.74%	94.23%
Standard Deviation	0.2%	0.9%	0.2%	0.6%	0.2%	0.6%	0.4%	0.3%
RAMspeed SMP - Average - Floating Point (MB/s)	34786	31218	31450	30973	34481	31620	32094	31550
Normalized	100%	89.74%	90.41%	89.04%	99.12%	90.9%	92.26%	90.7%
Standard Deviation	0.4%	0.3%	0.8%	0.8%	0.1%	0.4%	0.2%	0.1%
Stream - Copy (MB/s)	45636	43269	43618	43298	45641	43531	43579	43562
Normalized	99.99%	94.8%	95.57%	94.87%	100%	95.38%	95.48%	95.44%
Standard Deviation	0.1%	0.3%	0.2%	0.3%	0.1%	0.2%	0.1%	0.2%
Stream - Scale (MB/s)	32691	29364	29402	29277	31766	29417	29405	29419
Normalized	100%	89.82%	89.94%	89.56%	97.17%	89.98%	89.95%	89.99%
Standard Deviation	0.1%	0.1%	0.2%	0.4%	0.2%	0.3%	0.1%	0.5%
Stream - Triad (MB/s)	31457	30920	31001	30815	31048	30924	30974	30985
Normalized	100%	98.29%	98.55%	97.96%	98.7%	98.31%	98.46%	98.5%
Standard Deviation	0.1%	0.2%	0.2%	0.6%	0.2%	0.1%	0.2%	0.3%
Stream - Add (MB/s)	31385	31058	31080	30927	31272	31060	31088	31041
Normalized	100%	98.96%	99.03%	98.54%	99.64%	98.96%	99.05%	98.91%
Standard Deviation	0.1%	0.2%	0.2%	0.5%	0.2%	0.1%	0.1%	0.3%
Tinymembench - Standard Memcpy	13188	13482	15663	16038	13141	15066	14035	13008
Normalized	82.23%	84.06%	97.66%	100%	81.94%	93.94%	87.51%	81.11%
Standard Deviation	5.9%	5.7%	4.8%	0.2%	6.1%	16.7%	9.4%	5.9%
Tinymembench - Standard Memset	30164	24524	26106	25037	29948	25692	25991	25901
Normalized	100%	81.3%	86.55%	83%	99.28%	85.18%	86.17%	85.87%
Standard Deviation	2%	1%	6.4%	1.8%	5.8%	7.4%	4.3%	3.2%
t-test1 - 1 (sec)	19.135	16.687	15.943	16.206	16.295	15.766	15.570	18.400
Normalized	81.37%	93.31%	97.66%	96.08%	95.55%	98.76%	100%	84.62%
Standard Deviation	1.6%	1.3%	1.3%	0.9%	4.2%	0.9%	0.8%	0.6%
t-test1 - 2 (sec)	7.307	7.999	7.757	7.849	7.290	7.546	7.691	8.179
Normalized	99.77%	91.14%	93.98%	92.88%	100%	96.61%	94.79%	89.13%
Standard Deviation	0.1%	0.4%	2.1%	0.3%	0.6%	0.3%	0.2%	0.2%
Ethr - TCP - Latency - 1 (us)	21.60	23.73	24.33	24.15	20.93	22.36	22.46	24.08
Normalized	96.9%	88.2%	86.03%	86.67%	100%	93.6%	93.19%	86.92%
Standard Deviation	0.4%	0.4%	0%	1.6%	2.1%	0.1%	0.7%	0.1%
Ethr - TCP - Latency - 2 (us)	21.66	23.78	24.50	23.85	21.01	22.37	22.45	24.14
Normalized	97%	88.35%	85.76%	88.09%	100%	93.92%	93.59%	87.03%
Standard Deviation	0.3%	0.7%	1.6%	0.2%	2.3%	0.3%	0.5%	0.1%
Ethr - TCP - Latency - 16 (us)	21.54	23.80	24.16	23.82	21.16	22.36	22.51	24.09
Normalized	98.24%	88.91%	87.58%	88.83%	100%	94.63%	94%	87.84%
Standard Deviation	0.1%	0.6%	0.3%	0.1%	1.4%	0.4%	0.4%	0.1%
Ethr - TCP - Bandwidth - 2 (Mbits/s)	30497	22510	23938	26426	31893	21246	20084	21174
Normalized	95.62%	70.58%	75.06%	82.86%	100%	66.62%	62.97%	66.39%
Standard Deviation	0.8%	0.3%	2.3%	4.7%	0.7%	0.4%	1.6%	0.4%

Ethr - UDP - Bandwidth - 2 (Mbits/s)	29231	26863	26875	27362	38211	31553	29168	29268
Normalized	76.5%	70.3%	70.33%	71.61%	100%	82.58%	76.33%	76.6%
Standard Deviation	2.4%	2.4%	1%	1.1%	4.3%	0.5%	5.4%	1.3%
Ethr - HTTP - 922.30	855.31	878.78	869.17	933.40	942.91	939.60	918.77	
Bandwidth - 1 (Mbits/s)								
Normalized	97.81%	90.71%	93.2%	92.18%	98.99%	100%	99.65%	97.44%
Standard Deviation	11.5%	0.2%	0.2%	0.2%	13.1%	8.4%	0.2%	0.1%
Ethr - HTTP - 1729	1251	1428	1307	1714	1621	1459	1529	
Bandwidth - 2 (Mbits/s)								
Normalized	100%	72.34%	82.58%	75.59%	99.13%	93.75%	84.38%	88.43%
Standard Deviation	0.5%	20.8%	12.3%	19.2%		0.3%	1.5%	1.1%
Ethr - TCP - Bandwidth - 16 (Mbits/s)	28997	28136	28990	29081	35112	29157	25792	26060
Normalized	82.58%	80.13%	82.56%	82.82%	100%	83.04%	73.46%	74.22%
Standard Deviation	1.4%	0.6%	0.3%	0.1%	0.5%	0.7%	1.8%	0.3%
Ethr - UDP - Bandwidth - 16 (Mbits/s)	54109	41000	41606	40452	56605	45893	42947	42884
Normalized	95.59%	72.43%	73.5%	71.46%	100%	81.08%	75.87%	75.76%
Standard Deviation	14.4%	1.9%	0.6%	0.3%	3.2%	0.6%	2%	0.5%
Ethr - HTTP - 2067	1880	1921	1895	2086	1981	1791	1882	
Bandwidth - 16								
Normalized	99.09%	90.12%	92.09%	90.84%	100%	94.97%	85.86%	90.22%
Standard Deviation	0.3%	0.6%	0.7%	1.8%	0.5%	0.5%	0.7%	0.7%
Ethr - TCP - 8525	9887	9780	9382	56299	10380	9199	9716	
Connections/s - 1 (Connections/sec)								
Normalized	15.14%	17.56%	17.37%	16.66%	100%	18.44%	16.34%	17.26%
Standard Deviation	53.7%	1.9%	1.6%	2.3%	319.3%	2%	10.5%	3.2%
Ethr - TCP - 8704	12933	13110	12647	6450	13772	12893	12233	
Connections/s - 2 (Connections/sec)								
Normalized	63.2%	93.91%	95.19%	91.83%	46.83%	100%	93.62%	88.83%
Standard Deviation	44.6%	1.3%	0.5%	1.6%	50.3%	2.4%	2.6%	0.5%
Ethr - TCP - 272164	13893	14170	13473	157126	15267	14916	13353	
Connections/s - 16 (Connections/sec)								
Normalized	100%	5.1%	5.21%	4.95%	57.73%	5.61%	5.48%	4.91%
Standard Deviation	121%	2.2%	1%	1%	131.5%	0.9%	5.8%	0.9%
iPerf - 5201 - 10	74913	48219	48369	48045	74257	47556	47598	46345
Seconds - TCP - 10 (Mbits/s)								
Normalized	100%	64.37%	64.57%	64.13%	99.12%	63.48%	63.54%	61.87%
Standard Deviation	0.6%	2%	2.2%	0.2%	0.2%	1.8%	0.8%	0.3%
iPerf - 5201 - 10	10.4	10.5	10.5	10.5	10.4	10.5	10.5	10.5
Seconds - UDP - 10 (Mbits/s)								
Normalized	99.05%	100%	100%	100%	99.05%	100%	100%	100%
Standard Deviation	0%	0%	0%	0%	0%	0%	0%	0%
Sockperf - Throughput (Messages/sec)	257428	215341	222476	244263	233249	288216	281346	245518
Normalized	89.32%	74.72%	77.19%	84.75%	80.93%	100%	97.62%	85.19%
Standard Deviation	14.1%	2.5%	1.6%	0.5%	13.9%	1.3%	1%	12.2%

Sockperf - Latency	10.231	11.914	11.646	10.661	10.003	9.261	9.719	9.916
Ping Pong (usec)								
Normalized	90.52%	77.73%	79.52%	86.87%	92.58%	100%	95.29%	93.39%
Standard Deviation	13.7%	15%	14.6%	0.8%	10.8%	11.9%	14.1%	15.3%
Sockperf - Latency	10.192	12.387	11.624	10.931	23.275	13.247	11.074	35.552
Under Load (usec)								
Normalized	100%	82.28%	87.68%	93.24%	43.79%	76.94%	92.04%	28.67%
Standard Deviation	16.6%	14.5%	14.6%	12.9%	236.7%	94.4%	1.8%	103.5%
Crypto++ - All	1488	1489	1493	1486	1497	1492	1487	1490
Algorithms (MiB/s)								
Normalized	99.44%	99.46%	99.73%	99.27%	100%	99.67%	99.38%	99.55%
Standard Deviation	0.1%	0.1%	0.3%	0.1%	0.1%	0.1%	0.2%	0%
High Performance	2.25028	2.20910	2.22003	2.17342	2.20623	2.18782	2.22213	2.16471
Conjugate Gradient (GFLOP/s)								
Normalized	100%	98.17%	98.66%	96.58%	98.04%	97.22%	98.75%	96.2%
Standard Deviation	1%	1.8%	1.4%	0.5%	1.2%	1.5%	0.7%	1.6%
HPC Challenge - G-HPL	33.89193							
(GFLOPS)								
Standard Deviation	0.1%							
HPC Challenge - G-Fft	0.84601							
(GFLOPS)								
Standard Deviation	0.1%							
HPC Challenge -	35.06213							
EP-DGEMM (GFLOPS)								
Standard Deviation	0.1%							
HPC Challenge -	0.96463							
G-Ptrans (GB/s)								
Standard Deviation	1.8%							
HPC Challenge -	11.33023							
EP-STREAM Triad								
(GB/s)								
Standard Deviation	0.1%							
HPC Challenge -	0.00494							
G-Rand Access (GUP/s)								
Standard Deviation	0.2%							
FFTW - Stock - 1D FFT	10312	8983	8965	8940	8991	8948	8890	8915
Size 32 (Mflops)								
Normalized	100%	87.11%	86.94%	86.69%	87.19%	86.78%	86.21%	86.45%
Standard Deviation	4.6%	0.8%	0.4%	0.3%	0.2%	0.2%	0.6%	0.2%
FFTW - Stock - 2D FFT	10848	9363	9400	9247	9398	9266	9343	9247
Size 32 (Mflops)								
Normalized	100%	86.31%	86.65%	85.24%	86.63%	85.41%	86.12%	85.24%
Standard Deviation	1%	0.2%	0.1%	0.5%	0.1%	1.4%	0.6%	2.3%
FFTW - Stock - 1D FFT	8910	8387	8532	8432	8531	8514	8469	8493
Size 512 (Mflops)								
Normalized	100%	94.13%	95.76%	94.64%	95.74%	95.55%	95.05%	95.31%
Standard Deviation	0.4%	2.5%	0.7%	0.7%	0.5%	0.2%	0.1%	0.1%
FFTW - Stock - 2D FFT	7778	7496	7570	7548	7551	7580	7563	7542
Size 512 (Mflops)								
Normalized	100%	96.37%	97.33%	97.04%	97.08%	97.45%	97.23%	96.97%
Standard Deviation	1.5%	0.8%	0.2%	0.6%	0.7%	0.5%	0.2%	0.5%

FFTW - Stock - 1D FFT	8023	7886	7878	7850	7909	7871	7857	7841
Size 4096 (Mflops)								
Normalized	100%	98.29%	98.2%	97.84%	98.58%	98.1%	97.93%	97.73%
Standard Deviation	0.2%	0.2%	0.3%	0.5%	0.2%	0.8%	0.2%	1.1%
FFTW - Stock - 2D FFT	5920	4929	4863	4856	5687	5089	4858	4884
Size 4096 (Mflops)								
Normalized	100%	83.27%	82.15%	82.02%	96.06%	85.96%	82.06%	82.5%
Standard Deviation	2.5%	0.7%	1%	1.2%	2.4%	1.1%	0.6%	1.8%
FFTW - Float + SSE -	15014	15146	14992	14913	14697	14972	14727	15045
1D FFT Size 32 (Mflops)								
Normalized	99.13%	100%	98.98%	98.46%	97.04%	98.85%	97.23%	99.33%
Standard Deviation	0.5%	0.2%	1%	2.4%	3.7%	1.4%	1.5%	0.3%
FFTW - Float + SSE -	39626	41965	40520	41698	41028	41178	41648	41862
2D FFT Size 32 (Mflops)								
Normalized	94.43%	100%	96.56%	99.36%	97.77%	98.12%	99.24%	99.75%
Standard Deviation	1.9%	1.2%	7%	1.7%	5.5%	2.2%	1.5%	2%
FFTW - Float + SSE -	44642	48049	47699	46166	46026	45424	47352	45822
1D FFT Size 512								
Normalized	92.91%	100%	99.27%	96.08%	95.79%	94.54%	98.55%	95.37%
Standard Deviation	1.6%	1.3%	0.2%	4.4%	6.9%	7.2%	0.6%	4.8%
FFTW - Float + SSE -	32781	31300	31604	31837	31919	31454	31709	31473
2D FFT Size 512								
Normalized	100%	95.48%	96.41%	97.12%	97.37%	95.95%	96.73%	96.01%
Standard Deviation	1.5%	1.1%	0.5%	2.4%	2.3%	0.2%	1%	2.5%
FFTW - Float + SSE -	44929	47878	46779	48495	47596	47212	49047	47917
1D FFT Size 4096								
Normalized	91.6%	97.62%	95.38%	98.87%	97.04%	96.26%	100%	97.7%
Standard Deviation	2.4%	2.2%	2.6%	0.7%	2.1%	1.3%	1.7%	0.5%
FFTW - Float + SSE -	23928	21585	21910	21298	23120	21447	22238	21190
2D FFT Size 4096								
Normalized	100%	90.21%	91.57%	89.01%	96.62%	89.63%	92.94%	88.56%
Standard Deviation	4%	1.6%	2.1%	6.3%	1%	4.3%	0.5%	2%
Fhourstones - C.C.4.S	11237	10655	10760	10213	11353	10660	10489	10667
(Kpos / sec)								
Normalized	98.97%	93.85%	94.77%	89.95%	100%	93.89%	92.39%	93.96%
Standard Deviation	0.8%	0.3%	0.3%	1.1%	0.4%	1.8%	0.5%	0.4%
CacheBench - Read	2055	2466	2464	2444	2466	2462	2463	2460
(MB/s)								
Normalized	83.35%	100%	99.94%	99.12%	100%	99.85%	99.89%	99.76%
Standard Deviation	0%	0%	0%	0.1%	0.1%	0.1%	0%	0%
CacheBench - Write	23580	23633	23596	23511	23624	23655	23647	23635
(MB/s)								
Normalized	99.68%	99.9%	99.75%	99.39%	99.87%	100%	99.97%	99.91%
Standard Deviation	0.3%	0%	0.1%	0.5%	0.3%	0.4%	0.3%	0.5%
CacheBench - R.M.W	24163	47097	47026	46811	46985	46895	47025	46963
(MB/s)								
Normalized	51.31%	100%	99.85%	99.39%	99.76%	99.57%	99.85%	99.72%
Standard Deviation	0.2%	0.5%	0.3%	0.4%	0.1%	0%	0.3%	0.5%

LZ4 Compression - 1 -	12904	10978	10952	10959	12860	11025	11139	10800
Compression Speed (MB/s)								
Normalized	100%	85.07%	84.87%	84.93%	99.66%	85.44%	86.33%	83.7%
Standard Deviation	1%	0.6%	2.5%	2.5%	0.4%	2.2%	2.4%	1.2%
LZ4 Compression - 1 -	14443	13231	13421	13329	14735	13548	13469	13096
D.S (MB/s)								
Normalized	98.02%	89.79%	91.09%	90.46%	100%	91.94%	91.41%	88.88%
Standard Deviation	0.4%	0.6%	0.6%	1.2%	0.8%	0.8%	0.7%	1%
LZ4 Compression - 3 -	49.81	49.73	48.95	47.71	51.06	48.73	49.35	48.99
Compression Speed (MB/s)								
Normalized	97.55%	97.4%	95.87%	93.44%	100%	95.44%	96.65%	95.95%
Standard Deviation	0.1%	2.1%	2.4%	0.3%	0.5%	0.9%	2.5%	2.3%
LZ4 Compression - 3 -	13655	12504	12584	12502	13757	12466	12601	12403
D.S (MB/s)								
Normalized	99.26%	90.89%	91.47%	90.88%	100%	90.61%	91.6%	90.16%
Standard Deviation	0.4%	0.4%	0.9%	0.1%	0.2%	1.7%	0.8%	0.6%
LZ4 Compression - 9 -	48.75	47.36	47.40	47.41	49.79	47.24	47.35	48.64
Compression Speed (MB/s)								
Normalized	97.91%	95.12%	95.2%	95.22%	100%	94.88%	95.1%	97.69%
Standard Deviation	0.2%	1.1%	0.3%	2.4%	0.4%	0.4%	0.4%	2.4%
LZ4 Compression - 9 -	13710	12527	12687	12524	13794	12334	12681	12436
D.S (MB/s)								
Normalized	99.39%	90.82%	91.97%	90.8%	100%	89.42%	91.94%	90.16%
Standard Deviation	0.5%	0.1%	0.6%	0.2%	0.1%	1.3%	0.4%	0.4%
Zstd Compression - 3 -	717.5	694.3	696.2	675.2	718.7	678.6	689.4	665.5
Compression Speed (MB/s)								
Normalized	99.83%	96.6%	96.87%	93.95%	100%	94.42%	95.92%	92.6%
Standard Deviation	2.4%	1.2%	1.5%	0.5%	0.3%	1.2%	0.5%	0.3%
Zstd Compression - 3 -	3230	3091	3149	3135	3282	3124	3125	3117
D.S (MB/s)								
Normalized	98.44%	94.19%	95.97%	95.52%	100%	95.18%	95.23%	94.99%
Standard Deviation	0.6%	0.3%	1.8%	1.1%	0.1%	2%	1.8%	1.9%
Zstd Compression - 8 -	187.5	179.4	181.3	179.2	188.1	177.7	181.7	179.8
Compression Speed (MB/s)								
Normalized	99.68%	95.37%	96.38%	95.27%	100%	94.47%	96.6%	95.59%
Standard Deviation	0.3%	0.3%	0.5%	0.3%	0.5%	0.2%	0.6%	0.1%
Zstd Compression - 8 -	3361	3180	3191	3181	3395	3197	3247	3269
D.S (MB/s)								
Normalized	98.99%	93.67%	93.99%	93.69%	100%	94.17%	95.62%	96.28%
Standard Deviation	1%	0.1%	0.5%	4.3%	0.4%	0.5%	2.1%	1.5%
Zstd Compression - 19 -	5.72	5.12	5.17	5.03	5.67	4.82	5.17	5.03
- Compression Speed (MB/s)								
Normalized	100%	89.51%	90.38%	87.94%	99.13%	84.27%	90.38%	87.94%
Standard Deviation	0.2%	0.1%	0.8%	0.3%	0.3%	0.2%	0.9%	0.1%

Zstd Compression - 19	2999	2812	2813	2832	3003	2786	2834	2843
- D.S (MB/s)								
Normalized	99.86%	93.65%	93.66%	94.3%	100%	92.78%	94.38%	94.69%
Standard Deviation	0.1%	0.5%	0.4%	1%	0.4%	0.7%	1.4%	0.9%
Zstd Compression - 3,	484.9	452.3	453.0	445.2	474.0	444.1	478.6	443.7
Long Mode -								
Compression Speed								
(MB/s)								
Normalized	100%	93.28%	93.42%	91.81%	97.75%	91.59%	98.7%	91.5%
Standard Deviation	1%	0.3%	0.3%	0.5%	0.5%	1.2%	1%	0.6%
Zstd Compression - 3,	3498	3398	3327	3329	3564	3348	3375	3366
Long Mode - D.S (MB/s)								
Normalized	98.16%	95.34%	93.35%	93.42%	100%	93.96%	94.71%	94.46%
Standard Deviation	1.2%	2%	0.3%	1.2%	0.1%	2.3%	1.7%	1.6%
Zstd Compression - 8,	180.4	171.5	171.7	168.8	176.5	168.1	173.9	172.6
Long Mode -								
Compression Speed								
(MB/s)								
Normalized	100%	95.07%	95.18%	93.57%	97.84%	93.18%	96.4%	95.68%
Standard Deviation	0.1%	0.2%	0.2%	0.7%	1.3%	1.1%	0.3%	0.2%
Zstd Compression - 8,	3649	3472	3489	3457	3701	3466	3465	3456
Long Mode - D.S (MB/s)								
Normalized	98.6%	93.79%	94.27%	93.39%	100%	93.65%	93.6%	93.37%
Standard Deviation	0.7%	2.3%	2.4%	2.3%	0.1%	2.2%	0.8%	0.1%
Zstd Compression - 19,	4.52	4.08	4.09	4.03	4.54	3.98	4.13	4.01
Long Mode -								
Compression Speed								
(MB/s)								
Normalized	99.56%	89.87%	90.09%	88.77%	100%	87.67%	90.97%	88.33%
Standard Deviation	1%	0.1%	0.1%	0.8%	0.3%	0.9%	0%	0.2%
Zstd Compression - 19,	3005	2843	2898	2884	3047	2876	2887	2878
Long Mode - D.S (MB/s)								
Normalized	98.62%	93.3%	95.11%	94.66%	100%	94.4%	94.77%	94.45%
Standard Deviation	0.2%	1.5%	1.9%	0.6%	0.6%	1.8%	0.8%	1.6%
Botan - KASUMI (MiB/s)	73.518	71.248	71.236	71.560	70.654	71.947	71.565	71.309
Normalized	100%	96.91%	96.9%	97.34%	96.1%	97.86%	97.34%	97%
Standard Deviation	1.3%	1.3%	1.1%	0.2%	1.3%	0.3%	0.1%	0.2%
Botan - KASUMI -	73.663	71.992	71.948	71.682	72.010	71.892	71.723	71.636
Decrypt (MiB/s)								
Normalized	100%	97.73%	97.67%	97.31%	97.76%	97.6%	97.37%	97.25%
Standard Deviation	0.6%	0%	0.1%	0.1%	0.1%	0%	0.2%	0.1%
Botan - AES-256	4786	4680	4716	4755	4813	4805	4782	4787
Normalized	99.45%	97.25%	98%	98.81%	100%	99.85%	99.38%	99.47%
Standard Deviation	1.2%	0.2%	1.1%	0.1%	0.2%	0.1%	0.3%	0.1%
Botan - AES-256 -	4961	4900	4885	4875	4946	4929	4923	4886
Decrypt (MiB/s)								
Normalized	100%	98.77%	98.45%	98.26%	99.7%	99.34%	99.22%	98.48%
Standard Deviation	0.1%	0.1%	0.1%	0%	0.1%	0.2%	0.2%	0.5%
Botan - Twofish (MiB/s)	292.372	298.554	300.425	304.504	301.364	302.743	304.330	305.363
Normalized	95.75%	97.77%	98.38%	99.72%	98.69%	99.14%	99.66%	100%
Standard Deviation	1.3%	0.3%	1.7%	0.3%	1.2%	0.9%	0.4%	0.1%

Botan - Twofish - Decrypt (MiB/s)	305.028	311.226	310.880	310.005	311.752	309.780	310.907	311.196
Normalized	97.84%	99.83%	99.72%	99.44%	100%	99.37%	99.73%	99.82%
Standard Deviation	0.4%	0.3%	0.3%	0.2%	0.3%	0.4%	0.3%	0.1%
Botan - Blowfish - Decrypt (MiB/s)	355.460	365.713	363.347	367.793	366.798	366.080	368.265	367.815
Normalized	96.52%	99.31%	98.66%	99.87%	99.6%	99.41%	100%	99.88%
Standard Deviation	1.3%	1.2%	1.2%	0.2%	1.2%	1.5%	0.1%	0.2%
Botan - Blowfish - Decrypt (MiB/s)	377.769	380.005	380.883	379.980	381.412	380.710	380.642	377.818
Normalized	99.04%	99.63%	99.86%	99.62%	100%	99.82%	99.8%	99.06%
Standard Deviation	0.1%	0.4%	0.1%	0.1%	0%	0.1%	0.1%	0.8%
Botan - CAST-256 (MiB/s)	112.294	111.543	110.318	111.601	110.530	112.224	111.724	111.857
Normalized	100%	99.33%	98.24%	99.38%	98.43%	99.94%	99.49%	99.61%
Standard Deviation	1.3%	1.4%	2.4%	0.5%	1.1%	0%	0.5%	0.2%
Botan - CAST-256 - Decrypt (MiB/s)	117.607	116.745	115.611	115.966	116.747	116.652	115.932	116.374
Normalized	100%	99.27%	98.3%	98.6%	99.27%	99.19%	98.58%	98.95%
Standard Deviation	0%	0%	1.9%	0.5%	0.1%	0.1%	0.7%	0.1%
Botan - ChaCha20Poly1305 (MiB/s)	469.955	545.559	545.195	546.196	547.552	546.868	547.185	546.510
Normalized	85.83%	99.64%	99.57%	99.75%	100%	99.88%	99.93%	99.81%
Standard Deviation	0.6%	0.7%	0.5%	0.1%	0.2%	0.2%	0.1%	0%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	462.706	537.823	537.100	537.957	540.275	535.917	539.023	537.491
Crafty - Elapsed Time (Nodes/s)	7662111	7529610	7491360	7406320	7597765	7067881	7466357	7410115
Normalized	85.64%	99.55%	99.41%	99.57%	100%	99.19%	99.77%	99.48%
Standard Deviation	0.7%	0.7%	0.6%	0.1%	0.1%	0.3%	0.1%	0.1%
John The Ripper - Blowfish (Real C/S)	1857	1854	1843	1845	1840	1851	1850	1851
Normalized	100%	98.27%	97.77%	96.66%	99.16%	92.24%	97.45%	96.71%
Standard Deviation	0.6%	0.3%	0.8%	0.1%	0.7%	0.8%	0.2%	0.1%
John The Ripper - MD5 (Real C/S)	115814	118976	119046	118327	118777	117988	118372	118660
Normalized	97.29%	99.94%	100%	99.4%	99.77%	99.11%	99.43%	99.68%
Standard Deviation	1%	0%	0.1%	0.1%	0.5%	0.5%	0.1%	0.1%
GraphicsMagick - Swirl (Iterations/min)	62	60	61	60	63	61	60	61
Normalized	98.41%	95.24%	96.83%	95.24%	100%	96.83%	95.24%	96.83%
Standard Deviation					1%			
GraphicsMagick - Rotate (Iterations/min)	732	561	586	540	696	564	561	565
Normalized	100%	76.64%	80.05%	73.77%	95.08%	77.05%	76.64%	77.19%
Standard Deviation	0.4%	0.2%	0.3%	0.2%	2.5%	1.2%	0.5%	1%
GraphicsMagick - Sharpen	12	12	12	11	12	12	12	12
Normalized	100%	100%	100%	91.67%	100%	100%	100%	100%

	21	21	22	21	22	21	21	21
GraphicsMagick - Enhanced (Iterations/min)	21	21	22	21	22	21	21	21
Normalized	95.45%	95.45%	100%	95.45%	100%	95.45%	95.45%	95.45%
GraphicsMagick - Resizing	120	108	109	108	117	109	109	109
Normalized	100%	90%	90.83%	90%	97.5%	90.83%	90.83%	90.83%
Standard Deviation			1.1%					
GraphicsMagick - Noise-Gaussian (Iterations/min)	32	34	34	34	35	34	34	34
Normalized	91.43%	97.14%	97.14%	97.14%	100%	97.14%	97.14%	97.14%
GraphicsMagick - HWB Color Space (Iterations/min)	254	225	229	224	252	227	226	228
Normalized	100%	88.58%	90.16%	88.19%	99.21%	89.37%	88.98%	89.76%
Standard Deviation			0.7%				0.3%	0.3%
x264 - H.2.V.E (FPS)	13.42	13.33	13.39	13.17	13.25	13.05	13.35	13.02
Normalized	100%	99.33%	99.78%	98.14%	98.73%	97.24%	99.48%	97.02%
Standard Deviation	2%	1.9%	1.4%	1.9%	1.5%	1.2%	1.9%	1.7%
x265 - Bosphorus 4K (FPS)	2.35	2.33	2.33	2.30	2.35	2.29	2.32	2.31
Normalized	100%	99.15%	99.15%	97.87%	100%	97.45%	98.72%	98.3%
Standard Deviation	0.2%	0%	0.2%	0.3%	0.2%	0.4%	0.2%	0.3%
7-Zip Compression - C.S.T (MIPS)	7177	6823	6885	6785	7256	6631	6824	6844
Normalized	100%	99.15%	99.15%	97.87%	100%	97.45%	98.72%	98.3%
Standard Deviation	0.3%	1.3%	2.2%	0.3%	1%	0.3%	0.2%	0.1%
Stockfish - Total Time (Nodes/s)	2665660	2692355	2663466	2642113	2729346	2600187	2642919	2547541
Normalized	98.91%	94.03%	94.89%	93.51%	100%	91.39%	94.05%	94.32%
Standard Deviation	0.3%	1.3%	2.2%		1%	0.3%	0.2%	0.1%
Timed Linux Kernel Compilation - Time To Compile (sec)	636.776	682.319	672.963	692.264	668.571	701.540	691.529	695.964
Normalized	97.67%	98.64%	97.59%	96.8%	100%	95.27%	96.83%	93.34%
Standard Deviation	0.9%	2.3%	0.9%	0.9%	1%	1.6%	1%	0.7%
Timed PHP Compilation - Time To Compile (sec)	255.803	266.441	264.318	270.074	261.952	272.559	269.340	273.902
Normalized	100%	93.33%	94.62%	91.98%	95.24%	90.77%	92.08%	91.5%
Standard Deviation	0.1%	0.2%	0.3%	0.1%	0.1%	0.4%	0.2%	0.1%
C-Ray - Total Time - 4.1.R.P.P (sec)	612.141	627.784	627.236	629.820	627.299	628.496	628.540	629.974
Normalized	100%	96.01%	96.78%	94.72%	97.65%	93.85%	94.97%	93.39%
Standard Deviation	0.2%	0.1%	0.2%	0.2%	0.1%	1.6%	0.1%	0.2%
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	14.1313	14.6779	14.7233	14.6378	14.4106	14.7021	14.5986	14.7128
Normalized	100%	97.51%	97.59%	97.19%	97.58%	97.4%	97.39%	97.17%
Standard Deviation	0%	0.1%	0%	0%	0%	0.1%	0.1%	0.2%
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	8.38821	11.2583	10.6875	10.9042	8.56735	10.9932	11.1775	11.4797
Normalized	100%	74.51%	78.49%	76.93%	97.91%	76.3%	75.05%	73.07%
Standard Deviation	0.9%	1.3%	3%	2.5%	0.4%	0.3%	0.5%	0.2%

oneDNN - C.B.S.A -	29.9497	30.9653	31.8437	31.9141	30.9919	32.1700	32.2236	30.2877
u8s8f32 - CPU (ms)								
Normalized	100%	96.72%	94.05%	93.84%	96.64%	93.1%	92.94%	98.88%
Standard Deviation	1.6%	2.3%	1.7%	1.5%	1.6%	0.4%	1.3%	1.2%
oneDNN - D.B.s -	20.0924	20.2841	20.2634	20.4095	20.1930	20.3740	20.3405	20.3441
u8s8f32 - CPU (ms)								
Normalized	100%	99.05%	99.16%	98.45%	99.5%	98.62%	98.78%	98.76%
Standard Deviation	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%
oneDNN - D.B.s -	40.6044	41.0420	39.3512	38.5772	37.8519	38.4137	37.7663	38.6598
u8s8f32 - CPU (ms)								
Normalized	93.01%	92.02%	95.97%	97.9%	99.77%	98.31%	100%	97.69%
Standard Deviation	6%	6.5%	5.2%	0.2%	0.9%	0.3%	1.4%	3.4%
oneDNN - R.N.N.T -	27383	27581	27491	27738	27302	27714	27668	27629
u8s8f32 - CPU (ms)								
Normalized	99.7%	98.99%	99.31%	98.43%	100%	98.52%	98.68%	98.82%
Standard Deviation	0.7%	0.4%	0.2%	0.1%	0.6%	0.1%	0.4%	0.1%
oneDNN - R.N.N.I -	13475	13765	13721	13864	13494	13880	13845	13803
u8s8f32 - CPU (ms)								
Normalized	100%	97.89%	98.21%	97.19%	99.86%	97.09%	97.33%	97.63%
Standard Deviation	0.4%	0.2%	0.1%	0.1%	0.2%	0.1%	0.1%	0.3%
oneDNN - M.M.B.S.T -	26.0696	30.7967	30.9991	30.9724	30.5154	30.8566	30.8272	30.9186
u8s8f32 - CPU (ms)								
Normalized	100%	84.65%	84.1%	84.17%	85.43%	84.49%	84.57%	84.32%
Standard Deviation	0.4%	0.1%	1.4%	0.1%	0.2%	0.2%	0.1%	0.2%
Numpy Benchmark	360.55	334.81	333.63	333.66	349.39	332.60	337.33	309.45
(Score)								
Normalized	100%	92.86%	92.53%	92.54%	96.9%	92.25%	93.56%	85.83%
Standard Deviation	1.3%	0.1%	1.4%	1.3%	0.7%	0.5%	1.3%	1%
Cython Benchmark -	24.687	25.717	26.003	25.819	26.177	26.256	26.157	25.707
N-Queens (sec)								
Normalized	100%	95.99%	94.94%	95.62%	94.31%	94.02%	94.38%	96.03%
Standard Deviation	0.6%	0.8%	1.2%	0.7%	2.2%	3.1%	1.6%	0.1%
Opus Codec Encoding -	9.828	10.026	10.030	10.002	10.019	9.985	9.974	10.017
WAV To Opus Encode (sec)								
Normalized	100%	98.03%	97.99%	98.26%	98.09%	98.43%	98.54%	98.11%
Standard Deviation	1.6%	2.4%	2.3%	2.3%	2%	2.3%	2.5%	2.4%
FFmpeg - H.2.H.T.N.D	18.217	18.568	18.245	18.182	18.231	18.104	18.095	18.370
(sec)								
Normalized	99.33%	97.45%	99.18%	99.52%	99.25%	99.95%	100%	98.5%
Standard Deviation	0.5%	1%	1.2%	1.2%	1.1%	1%	0.9%	1.3%
Sample Pi Program	13.861	7.759	7.743	7.536	7.677	7.520	7.522	7.525
Normalized	54.25%	96.92%	97.12%	99.79%	97.95%	100%	99.97%	99.93%
Standard Deviation	0.3%	2.5%	2.3%	0.1%	2.4%	0.1%	0.1%	0.1%
OpenSSL - R.4.b.P	217.4	217.2	216.8	218.9	219.9	219.5	219.7	221.9
(Signs/sec)								
Normalized	97.97%	97.88%	97.7%	98.65%	99.1%	98.92%	99.01%	100%
Standard Deviation	2%	2%	2.2%	1.9%	2.1%	2%	1.9%	0.1%
Core-Latency -	44.6381	75.0086	76.4646	76.9555	71.2538	75.6472	96.6189	75.8378
A.L.B.C.C (ns)								
Normalized	100%	59.51%	58.38%	58.01%	62.65%	59.01%	46.2%	58.86%

MariaDB - 1	4711							
(Queries/sec)								
Standard Deviation	1.8%							
MariaDB - 4	2747							
(Queries/sec)								
Standard Deviation	0.7%							
MariaDB - 16	1182							
(Queries/sec)								
Standard Deviation	1.2%							
Tensorflow - Cifar10	320.63							
(sec)								
Standard Deviation	0.1%							
PostgreSQL pgbench - 1	14477	14063	14264	13649	15408	14779	14904	14653
1 - 1 - Read Only (TPS)								
Normalized	93.96%	91.27%	92.58%	88.58%	100%	95.92%	96.73%	95.1%
Standard Deviation	1%	0.6%	0.7%	0.4%	1.1%	0.7%	1.3%	1.3%
PostgreSQL pgbench - 0.069	0.069	0.071	0.070	0.073	0.065	0.068	0.067	0.068
1 - 1 - Read Only -								
Average Latency (ms)								
Normalized	94.2%	91.55%	92.86%	89.04%	100%	95.59%	97.01%	95.59%
Standard Deviation	0.8%	0%	0.8%	0.8%	1.5%	0.9%	1.5%	1.7%
PostgreSQL pgbench - 1489	1489	1410	1415	1401	1533	1421	1443	1411
1 - 1 - Read Write (TPS)								
Normalized	97.13%	91.98%	92.3%	91.39%	100%	92.69%	94.13%	92.04%
Standard Deviation	2.3%	1.3%	1.4%	2.1%	2.6%	1.1%	3.1%	0.4%
PostgreSQL pgbench - 0.672	0.672	0.710	0.707	0.714	0.653	0.704	0.694	0.709
1 - 1 - Read Write -								
Average Latency (ms)								
Normalized	97.17%	91.97%	92.36%	91.46%	100%	92.76%	94.09%	92.1%
Standard Deviation	2.3%	1.3%	1.4%	2.1%	2.5%	1.1%	2.9%	0.4%
PostgreSQL pgbench - 31727	31727	31154	30915	30124	34240	33637	32414	31861
1 - 50 - Read Only (TPS)								
Normalized	92.66%	90.99%	90.29%	87.98%	100%	98.24%	94.67%	93.05%
Standard Deviation	2.5%	2.2%	1.6%	0.5%	0.5%	0.2%	2.1%	1.9%
PostgreSQL pgbench - 1.577	1.577	1.606	1.618	1.660	1.461	1.487	1.543	1.570
1 - 50 - Read Only -								
Average Latency (ms)								
Normalized	92.64%	90.97%	90.3%	88.01%	100%	98.25%	94.69%	93.06%
Standard Deviation	2.5%	2.2%	1.6%	0.5%	0.5%	0.2%	2.1%	1.9%
PostgreSQL pgbench - 1721	1721	1582	1601	1570	1775	1628	1540	1497
1 - 50 - Read Write								
Normalized	96.96%	89.13%	90.2%	88.45%	100%	91.72%	86.76%	84.34%
Standard Deviation	0.2%	0.6%	0.2%	1.5%	1.2%	0.3%	1.1%	0.6%
PostgreSQL pgbench - 29.052	29.052	31.613	31.229	31.856	28.181	30.717	32.477	33.404
1 - 50 - Read Write -								
Average Latency (ms)								
Normalized	97%	89.14%	90.24%	88.46%	100%	91.74%	86.77%	84.36%
Standard Deviation	0.2%	0.6%	0.2%	1.5%	1.2%	0.3%	1.1%	0.6%

PostgreSQL pgbench -	12966	12417	12574	12037	13755	13059	12931	12902
100 - 1 - Read Only								
(TPS)								
Normalized	94.26%	90.27%	91.41%	87.51%	100%	94.94%	94.01%	93.8%
Standard Deviation	0.6%	0.7%	0.1%	0.7%	0.6%	1.5%	0.3%	0.8%
PostgreSQL pgbench -	0.077	0.081	0.080	0.083	0.073	0.077	0.077	0.077
100 - 1 - Read Only -								
Average Latency (ms)								
Normalized	94.81%	90.12%	91.25%	87.95%	100%	94.81%	94.81%	94.81%
Standard Deviation	0.7%	0.7%	0.7%	1.2%	0.8%	2%	0.7%	0.7%
PostgreSQL pgbench -	1373	1305	1311	1249	1400	1316	1332	1270
100 - 1 - Read Write								
(TPS)								
Normalized	98.07%	93.21%	93.64%	89.21%	100%	94%	95.14%	90.71%
Standard Deviation	1.6%	1.1%	0.5%	0.1%	0.7%	0.9%	0.8%	1.3%
PostgreSQL pgbench -	0.729	0.767	0.763	0.800	0.714	0.760	0.751	0.788
100 - 1 - Read Write -								
Average Latency (ms)								
Normalized	97.94%	93.09%	93.58%	89.25%	100%	93.95%	95.07%	90.61%
Standard Deviation	1.6%	1.2%	0.5%	0.1%	0.7%	0.9%	0.8%	1.3%
PostgreSQL pgbench -	26380	25655	25881	24735	28159	26736	25965	25915
100 - 50 - Read Only								
(TPS)								
Normalized	93.68%	91.11%	91.91%	87.84%	100%	94.95%	92.21%	92.03%
Standard Deviation	2.1%	0.3%	0.9%	0.9%	0.8%	0.6%	0%	0.5%
PostgreSQL pgbench -	1.897	1.949	1.932	2.022	1.776	1.870	1.926	1.929
100 - 50 - Read Only -								
Average Latency (ms)								
Normalized	93.62%	91.12%	91.93%	87.83%	100%	94.97%	92.21%	92.07%
Standard Deviation	2.1%	0.3%	0.9%	0.9%	0.8%	0.6%	0%	0.5%
PostgreSQL pgbench -	4084	2939	3103	3000	4159	3049	2952	3607
1000 - 1 - Read Only								
(TPS)								
Normalized	98.2%	70.67%	74.61%	72.13%	100%	73.31%	70.98%	86.73%
Standard Deviation	6%	0.8%	2.4%	5.1%	3.3%	2.1%	2.5%	7%
PostgreSQL pgbench -	0.246	0.340	0.323	0.334	0.241	0.328	0.339	0.278
1000 - 1 - Read Only -								
Average Latency (ms)								
Normalized	97.97%	70.88%	74.61%	72.16%	100%	73.48%	71.09%	86.69%
Standard Deviation	6.3%	0.9%	2.4%	5.1%	3.3%	2.1%	2.4%	6.7%
PostgreSQL pgbench -	3792	3494	3528	3492	3909	3583	3392	3463
100 - 50 - Read Write								
(TPS)								
Normalized	97.01%	89.38%	90.25%	89.33%	100%	91.66%	86.77%	88.59%
Standard Deviation	1.5%	2.1%	1.4%	0.8%	2.4%	1.6%	2.2%	1%
PostgreSQL pgbench -	13.190	14.314	14.176	14.321	12.797	13.959	14.746	14.439
100 - 50 - Read Write -								
Average Latency (ms)								
Normalized	97.02%	89.4%	90.27%	89.36%	100%	91.68%	86.78%	88.63%
Standard Deviation	1.5%	2.1%	1.4%	0.8%	2.5%	1.6%	2.2%	1%

PostgreSQL pgbench -	1061	901	944	912	1097	931	938	1017
1000 - 1 - Read Write (TPS)								
Normalized								
Normalized	96.72%	82.13%	86.05%	83.14%	100%	84.87%	85.51%	92.71%
Standard Deviation	3.2%	3.4%	0.6%	3.1%	1.9%	0.1%	2.2%	2.4%
PostgreSQL pgbench -	0.944	1.111	1.059	1.097	0.912	1.074	1.067	0.984
1000 - 1 - Read Write - Average Latency (ms)								
Normalized								
Normalized	96.61%	82.09%	86.12%	83.14%	100%	84.92%	85.47%	92.68%
Standard Deviation	3.2%	3.3%	0.5%	3.2%	2%	0.1%	2.3%	2.4%
PostgreSQL pgbench -	19281	14497	15131	14763	19822	8668	12661	16318
1000 - 50 - Read Only (TPS)								
Normalized								
Normalized	97.27%	73.14%	76.33%	74.48%	100%	43.73%	63.87%	82.32%
Standard Deviation	1.1%	0.7%	2.4%	2%	0.7%	35.1%	17%	1%
PostgreSQL pgbench -	2.594	3.449	3.306	3.388	2.523	6.388	4.096	3.065
1000 - 50 - Read Only - Average Latency (ms)								
Normalized								
Normalized	97.26%	73.15%	76.32%	74.47%	100%	39.5%	61.6%	82.32%
Standard Deviation	1.1%	0.7%	2.3%	2%	0.7%	32.3%	23.2%	1%
PostgreSQL pgbench -	3332	2744	2946	3096	3518	2838	2696	3054
1000 - 50 - Read Write (TPS)								
Normalized								
Normalized	94.71%	78%	83.74%	88%	100%	80.67%	76.63%	86.81%
Standard Deviation	5.2%	9.4%	4.9%	1%	1%	8.2%	5%	2.7%
PostgreSQL pgbench -	15.045	18.383	17.012	16.152	14.215	17.749	18.590	16.384
1000 - 50 - Read Write - Average Latency (ms)								
Normalized								
Normalized	94.48%	77.33%	83.56%	88.01%	100%	80.09%	76.47%	86.76%
Standard Deviation	5.3%	9.9%	5.1%	1%	1%	9.7%	5.2%	2.7%
SQLite Speedtest -	64.177	67.363	65.964	66.414	62.709	64.825	64.500	64.682
Timed Time - Size 1,000 (sec)								
Normalized								
Normalized	97.71%	93.09%	95.07%	94.42%	100%	96.74%	97.22%	96.95%
Standard Deviation	0.5%	0.3%	0.3%	0.4%	1.1%	0.4%	0.2%	0.1%
GIMP - resize (sec)	15.054							
Standard Deviation	2.4%							
GIMP - rotate (sec)	21.073							
Standard Deviation	0.5%							
GIMP - auto-levels (sec)	29.764							
Standard Deviation	2.5%							
GIMP - unsharp-mask (sec)	31.683							
Standard Deviation	0.2%							
Redis - LPOP	1770817	1667235	1228449	1179814	1278617	1243266	1255724	1215502
Normalized	100%	94.15%	69.37%	66.63%	72.2%	70.21%	70.91%	68.64%
Standard Deviation	1.1%	0.8%	1.5%	1.6%	2.3%	0.6%	0.3%	1.9%
Redis - SADD	1416667	1447664	1467955	1436265	1569330	1520691	1526343	1469027
Normalized	90.27%	92.25%	93.54%	91.52%	100%	96.9%	97.26%	93.61%
Standard Deviation	1.3%	1.4%	1.6%	0.3%	2.4%	0.8%	0.1%	0.9%

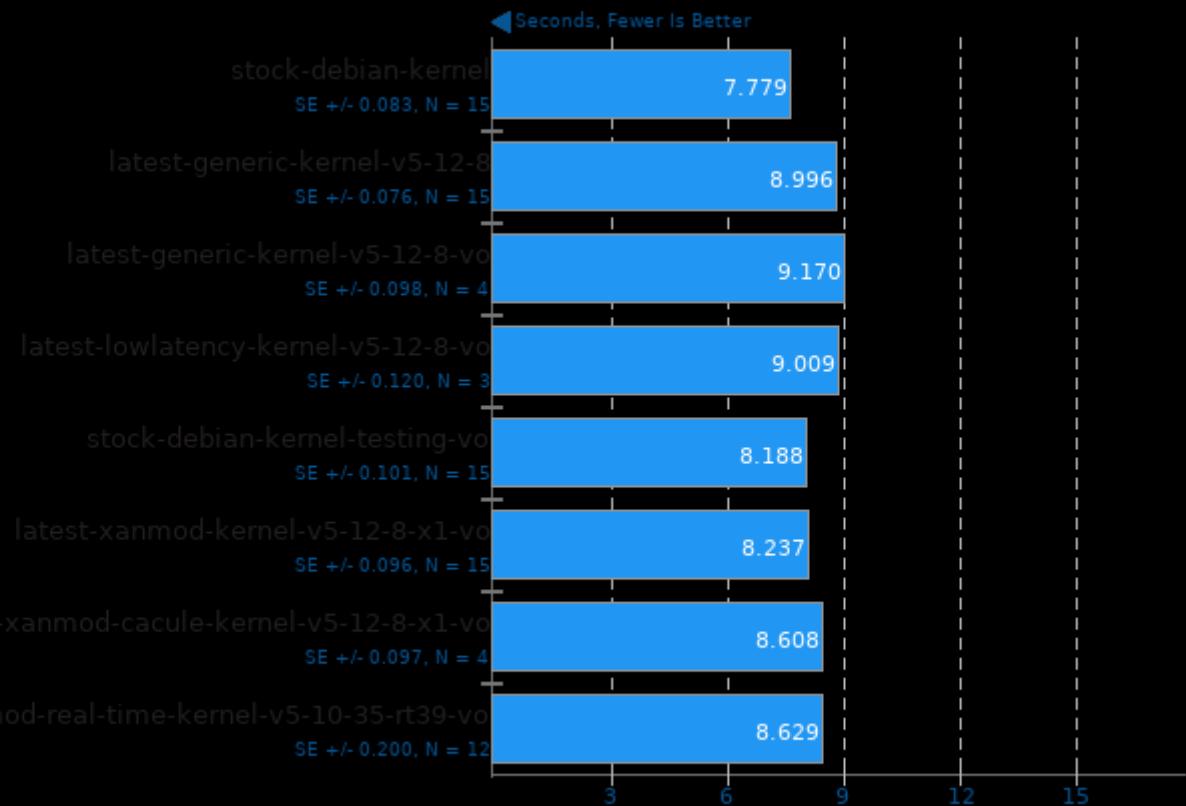
Redis - LPUSH (Req/sec)	1127623	1169864	1166357	1146140	1246584	1196351	1204997	1154028
Normalized	90.46%	93.85%	93.56%	91.94%	100%	95.97%	96.66%	92.58%
Standard Deviation	2.5%	0.6%	0.3%	2.4%	1.8%	0.7%	1.2%	2.4%
Redis - GET (Req/sec)	1616455	1618897	1540623	1485468	1664172	1581931	1590346	1545872
Normalized	97.13%	97.28%	92.58%	89.26%	100%	95.06%	95.56%	92.89%
Standard Deviation	2.8%	0.7%	0.5%	1.3%	2.4%	0.6%	0.9%	0.3%
Redis - SET (Req/sec)	1275459	1318732	1298001	1292968	1430217	1378467	1364756	1340245
Normalized	89.18%	92.21%	90.76%	90.4%	100%	96.38%	95.42%	93.71%
Standard Deviation	2.1%	2.5%	2.4%	0.9%	1.1%	0.2%	2.1%	1%
Caffe - AlexNet - CPU - 100 (ms)	77125							
Standard Deviation	2%							
Caffe - GoogleNet - CPU - 100 (ms)	174890							
Standard Deviation	0.2%							
Sysbench - RAM / Memory (MiB/sec)	7602	8045	8159	8048	8339	8242	8164	8258
Normalized	91.16%	96.48%	97.85%	96.52%	100%	98.84%	97.9%	99.04%
Standard Deviation	1.4%	1.4%	2.2%	1.8%	0.6%	0.1%	2.5%	0.1%
Sysbench - CPU (Events/sec)	4105	4110	4120	4104	4120	4109	4111	4112
Normalized	99.64%	99.75%	100%	99.62%	100%	99.74%	99.78%	99.81%
Standard Deviation	0.2%	0.2%	0.1%	0%	0.1%	0%	0%	0%
Apache Cassandra - Writes (Op/s)	5162	4466	4581	4494	5257	4598	4697	4643
Normalized	98.19%	84.95%	87.14%	85.49%	100%	87.46%	89.35%	88.32%
Standard Deviation	8%	0.3%	1.2%	0.1%	0.1%	5.9%	1.2%	2.5%
Blender - BMW27 - CPU-Only (sec)	1477	1511	1508	1521	1475	1514	1512	1515
Normalized	99.83%	97.6%	97.76%	96.94%	100%	97.39%	97.51%	97.32%
Standard Deviation	0%	0%	0.2%	0.1%	0.2%	0.2%	0.2%	0.1%
PyBench - T.F.A.T.T (Milliseconds)	1059	1033	1032	1035	1035	1033	1033	1039
Normalized	97.45%	99.9%	100%	99.71%	99.71%	99.9%	99.9%	99.33%
Standard Deviation	0.4%	0.2%	0.8%	0.1%	0.8%	0.8%	0.3%	1.5%
PyPerformance - go (Milliseconds)	273	272	272	271	271	272	270	270
Normalized	98.9%	99.26%	99.26%	99.63%	99.63%	99.26%	100%	100%
PyPerformance - 2to3 (Milliseconds)	360	361	362	361	359	360	361	377
Normalized	99.72%	99.45%	99.17%	99.45%	100%	99.72%	99.45%	95.23%
Standard Deviation			0.7%	0.4%			0.3%	0.7%
PyPerformance - chaos (Milliseconds)	129	116	116	116	116	116	117	116
Normalized	89.92%	100%	100%	100%	100%	100%	99.15%	100%
Standard Deviation					0.5%	1%		1%
PyPerformance - float (Milliseconds)	116	125	126	127	125	126	126	125
Normalized	100%	92.8%	92.06%	91.34%	92.8%	92.06%	92.06%	92.8%
Standard Deviation		0.5%						

PyPerformance - nbody (Milliseconds)	135	132	130	131	129	134	130	130
Normalized	95.56%	97.73%	99.23%	98.47%	100%	96.27%	99.23%	99.23%
Standard Deviation					0.8%	2%		
PyPerformance - pathlib (Milliseconds)	20.5	19.3	18.9	18.9	18.2	18.1	18.2	19.3
Normalized	88.29%	93.78%	95.77%	95.77%	99.45%	100%	99.45%	93.78%
Standard Deviation	0.3%	0.5%	0.8%	0.6%	0.8%	0.3%	0.3%	1.6%
PyPerformance - raytrace (Milliseconds)	516	498	495	495	497	497	497	497
Normalized	95.93%	99.4%	100%	100%	99.6%	99.6%	99.6%	99.6%
Standard Deviation	0.2%	0.1%	0.3%	0.3%	0.3%	0.3%	0.2%	0.3%
PyPerformance - json.loads	27.2	26.9	26.6	26.6	26.6	26.7	26.7	26.6
Normalized	97.79%	98.88%	100%	100%	100%	99.63%	99.63%	100%
Standard Deviation	1.3%	1.5%	0.2%	0%	0%	0.2%	0.2%	0%
PyPerformance - crypto_pyaes (Milliseconds)	114	112	113	112	114	114	111	112
Normalized	97.37%	99.11%	98.23%	99.11%	97.37%	97.37%	100%	99.11%
Standard Deviation				0.5%				
PyPerformance - regex_compile (Milliseconds)	194	177	177	178	176	178	177	177
Normalized	90.72%	99.44%	99.44%	98.88%	100%	98.88%	99.44%	99.44%
Standard Deviation	0.3%		0.3%			0.6%		
PyPerformance - python_startup (Milliseconds)	8.65	8.70	8.95	9.05	8.55	9.00	8.95	9.22
Normalized	98.84%	98.28%	95.53%	94.48%	100%	95%	95.53%	92.73%
Standard Deviation	0.1%	0.2%	0.3%	0.1%	0.1%	0.5%	0.1%	0.3%
PyPerformance - django_template (Milliseconds)	60.4	51.1	51.2	52.4	52.2	51.6	51.5	51.7
Normalized	84.6%	100%	99.8%	97.52%	97.89%	99.03%	99.22%	98.84%
Standard Deviation	0.6%	0.4%	0.4%	0.2%	0.7%	0%	0.3%	0.4%
PyPerformance - pickle_pure_python (Milliseconds)	511	477	478	477	481	479	476	479
Normalized	93.15%	99.79%	99.58%	99.79%	98.96%	99.37%	100%	99.37%
Standard Deviation		0.2%	0.2%	0.8%		1%	0.8%	0.2%
NGINX Benchmark -	24631	22336	23063	22242	24927	24496	24624	21963
S.W.P.S (Req/sec)								
Normalized	98.82%	89.61%	92.52%	89.23%	100%	98.27%	98.78%	88.11%
Standard Deviation	0.8%	0.3%	1%	0.5%	1.4%	0.2%	0.1%	0.1%
Apache Benchmark -	14038	11633	11796	11879	14161	12821	12447	11769
S.W.P.S (Req/sec)								
Normalized	99.13%	82.15%	83.3%	83.88%	100%	90.54%	87.9%	83.11%
Standard Deviation	0.3%	0.2%	0.2%	0.2%	0.3%	0.2%	1%	1.1%
Tesseract OCR -	48.423							
T.T.O.7.I (sec)								
Standard Deviation	0.5%							

InfluxDB - 4 - 10000 -	321403	315081	315989	317158	322450	318953	317699	310995
2,5000,1 - 10000								
(val/sec)								
Normalized	99.68%	97.71%	98%	98.36%	100%	98.92%	98.53%	96.45%
Standard Deviation	0.3%	0.4%	0.9%	0.4%	0.4%	0.5%	0.4%	0.2%
InfluxDB - 64 - 10000 -	309899	301030	304111	298564	308274	301328	300890	295027
2,5000,1 - 10000								
(val/sec)								
Normalized	100%	97.14%	98.13%	96.34%	99.48%	97.23%	97.09%	95.2%
Standard Deviation	0.5%	0.6%	0.3%	0.7%	0.2%	0.4%	0.4%	1.1%
GIMP - resize (sec)	20.657	20.779	20.623	20.445	20.613	20.468	20.981	
Normalized	98.97%	98.39%	99.14%	100%	99.18%	99.89%	97.45%	
Standard Deviation	0.9%	0.6%	1.4%	1.6%	1.2%	1%	1.4%	
GIMP - rotate (sec)	16.003	15.906	15.948	14.553	15.978	15.637	16.275	
Normalized	90.94%	91.49%	91.25%	100%	91.08%	93.07%	89.42%	
Standard Deviation	1.1%	0.8%	0.2%	1.6%	1.1%	0.3%	0.1%	
GIMP - auto-levels (sec)	21.432	21.361	21.348	19.782	21.11	21.021	21.726	
Normalized	92.3%	92.61%	92.66%	100%	93.71%	94.11%	91.05%	
Standard Deviation	0.7%	0.9%	0.1%	1.3%	0.1%	0.1%	0.2%	
GIMP - unsharp-mask (sec)	24.067	24.095	24.288	21.972	24.110	23.881	24.772	
Normalized	91.3%	91.19%	90.46%	100%	91.13%	92.01%	88.7%	
Standard Deviation	0.3%	0.3%	0.1%	0.2%	0.6%	0.7%	0.9%	
Tesseract OCR - T.T.O.7.I (sec)	48.253	47.385	48.218	41.568	44.269	48.570	45.432	
Normalized	86.15%	87.72%	86.21%	100%	93.9%	85.58%	91.49%	
Standard Deviation	0.5%	0.5%	0.3%	0.1%	0.2%	0.5%	0.2%	

SQLite 3.30.1

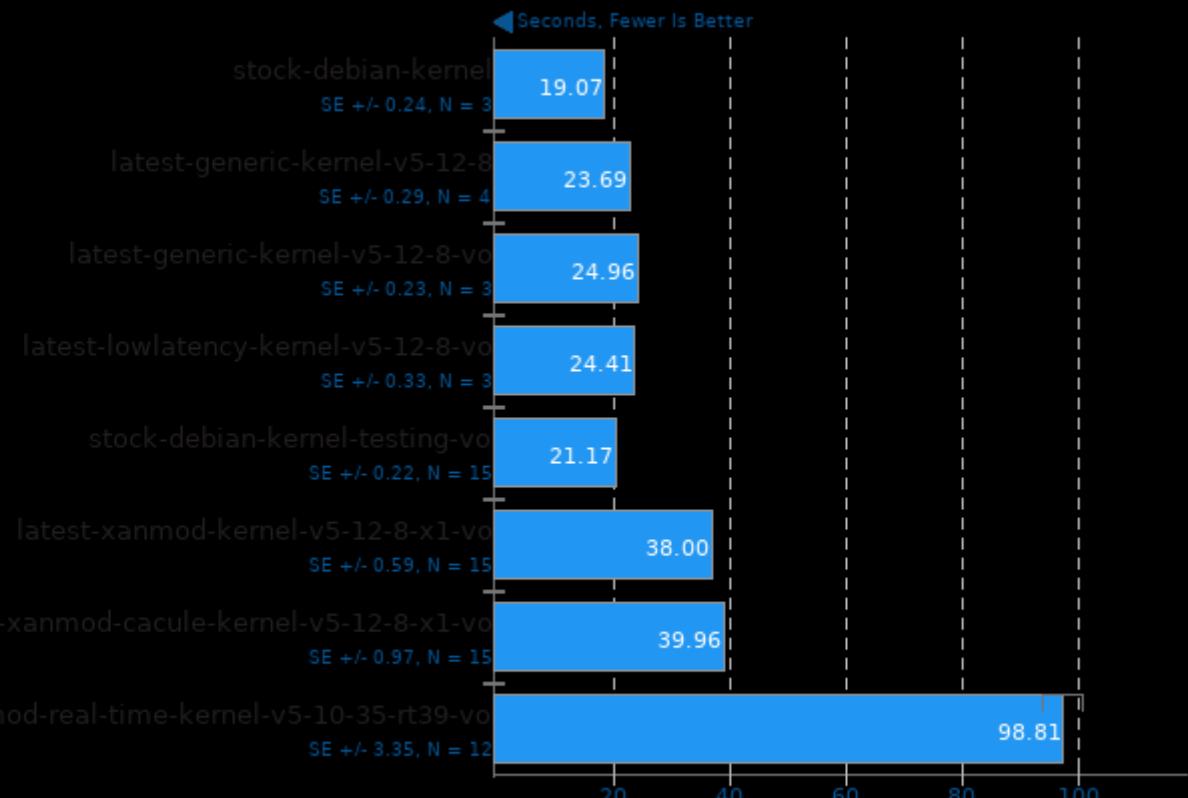
Threads / Copies: 1



1. (CC) gcc options: -O2 -fz -fim -fcl -fthread

SQLite 3.30.1

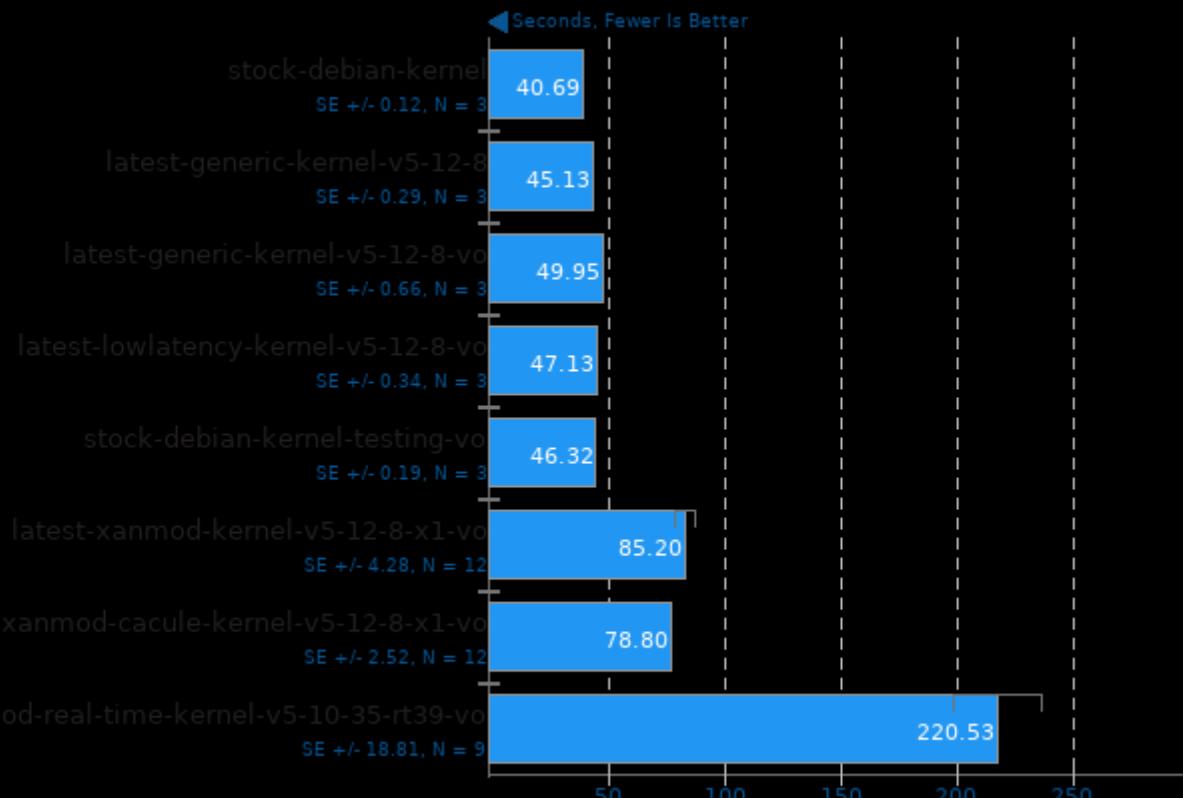
Threads / Copies: 8



1. (CC) gcc options: -O2 -fz -fim -fcl -fthread

SQLite 3.30.1

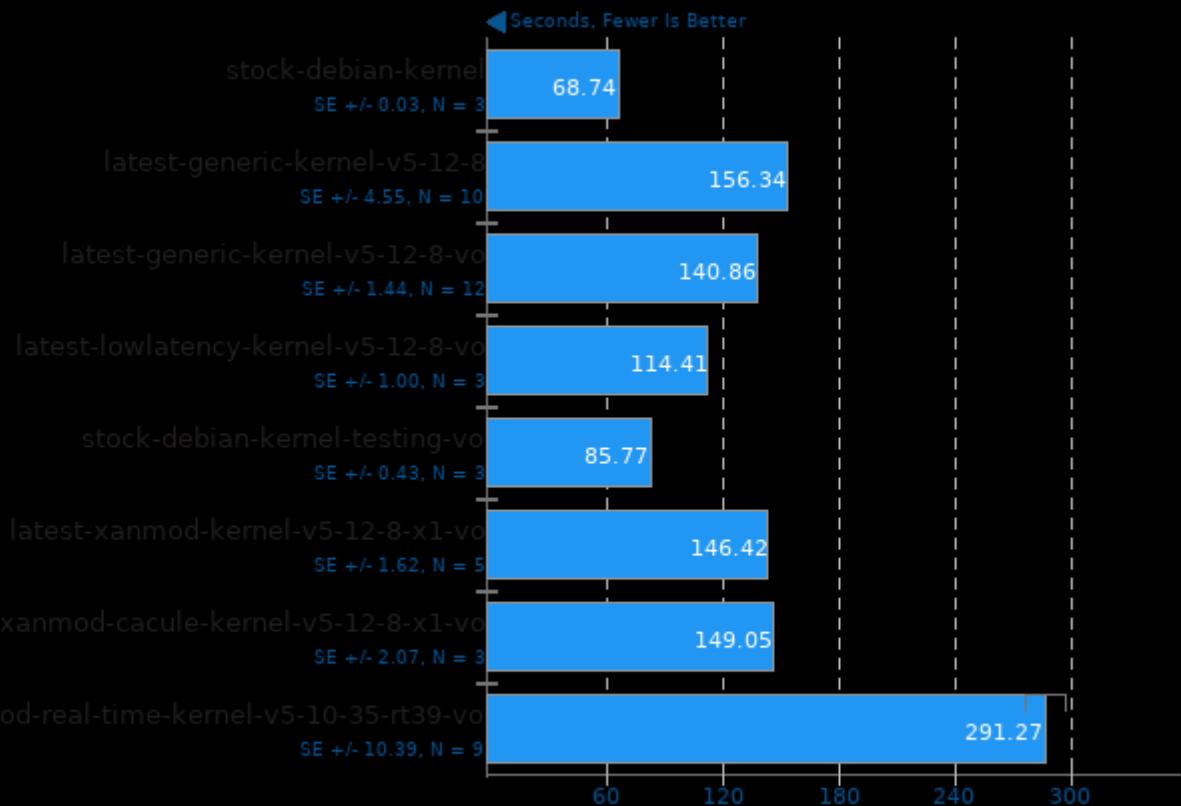
Threads / Copies: 32



1. (CC) gcc options: -O2 -fz -fim -fcl -fthread

SQLite 3.30.1

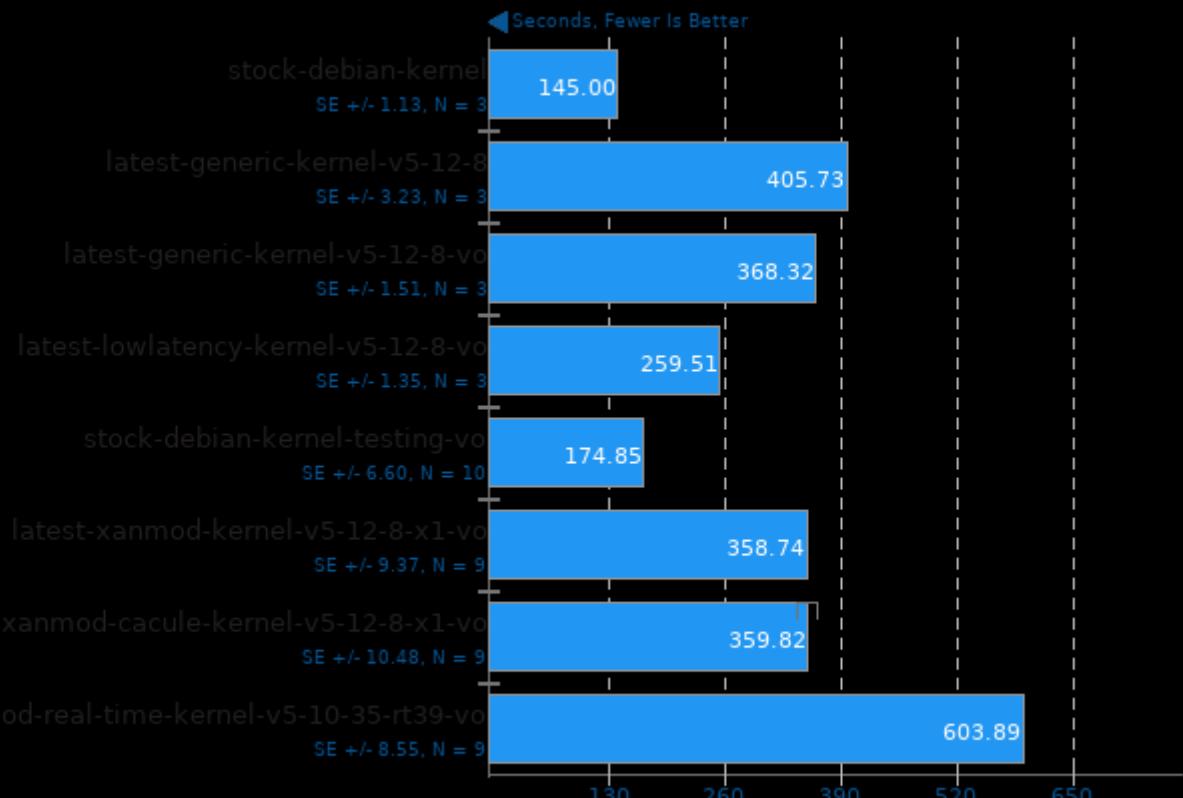
Threads / Copies: 64



1. (CC) gcc options: -O2 -fz -fim -fcl -fthread

SQLite 3.30.1

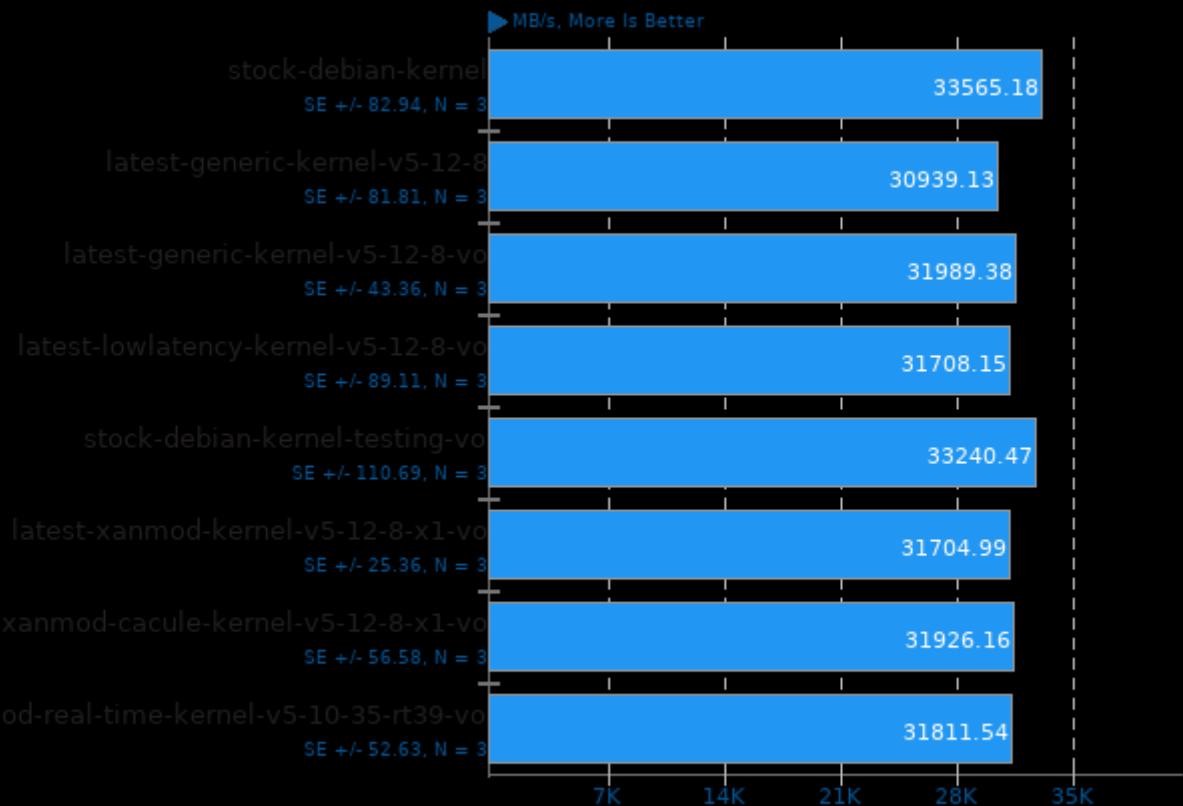
Threads / Copies: 128



1. (CC) gcc options: -O2 -fz -fim -fcl -fthread

RAMspeed SMP 3.5.0

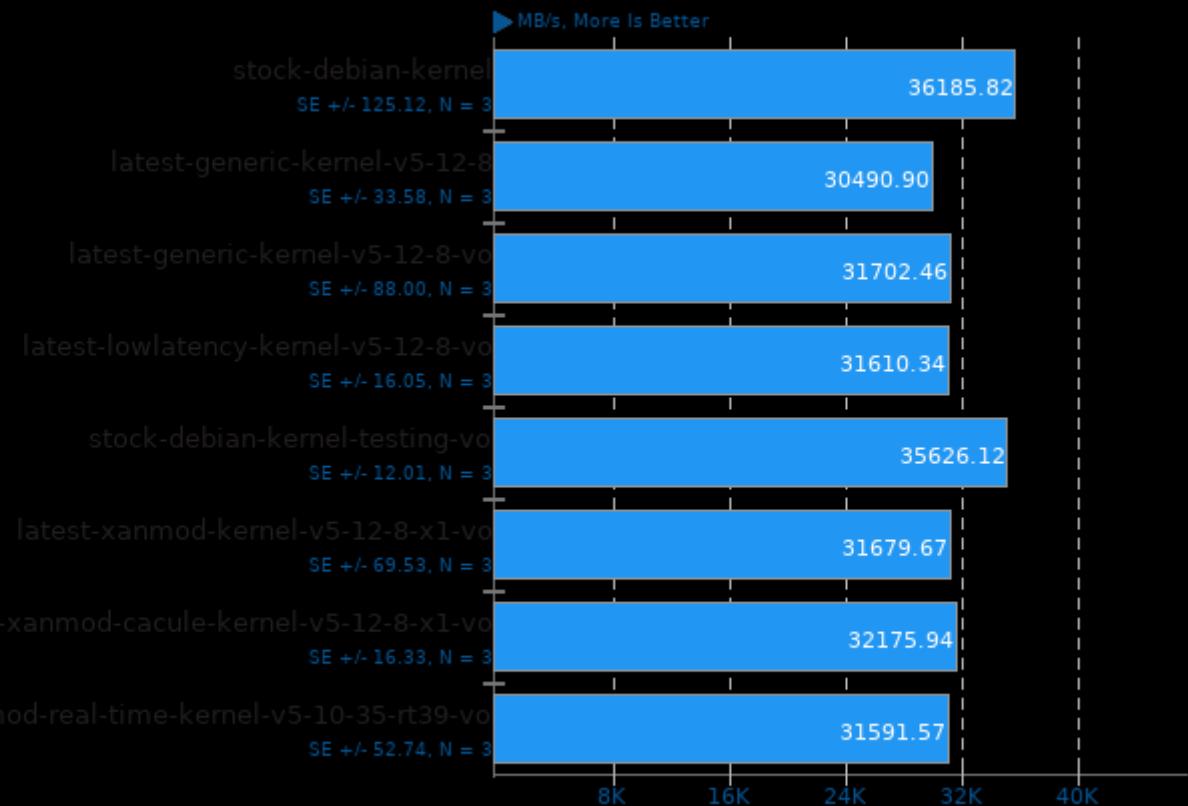
Type: Add - Benchmark: Integer



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

RAMspeed SMP 3.5.0

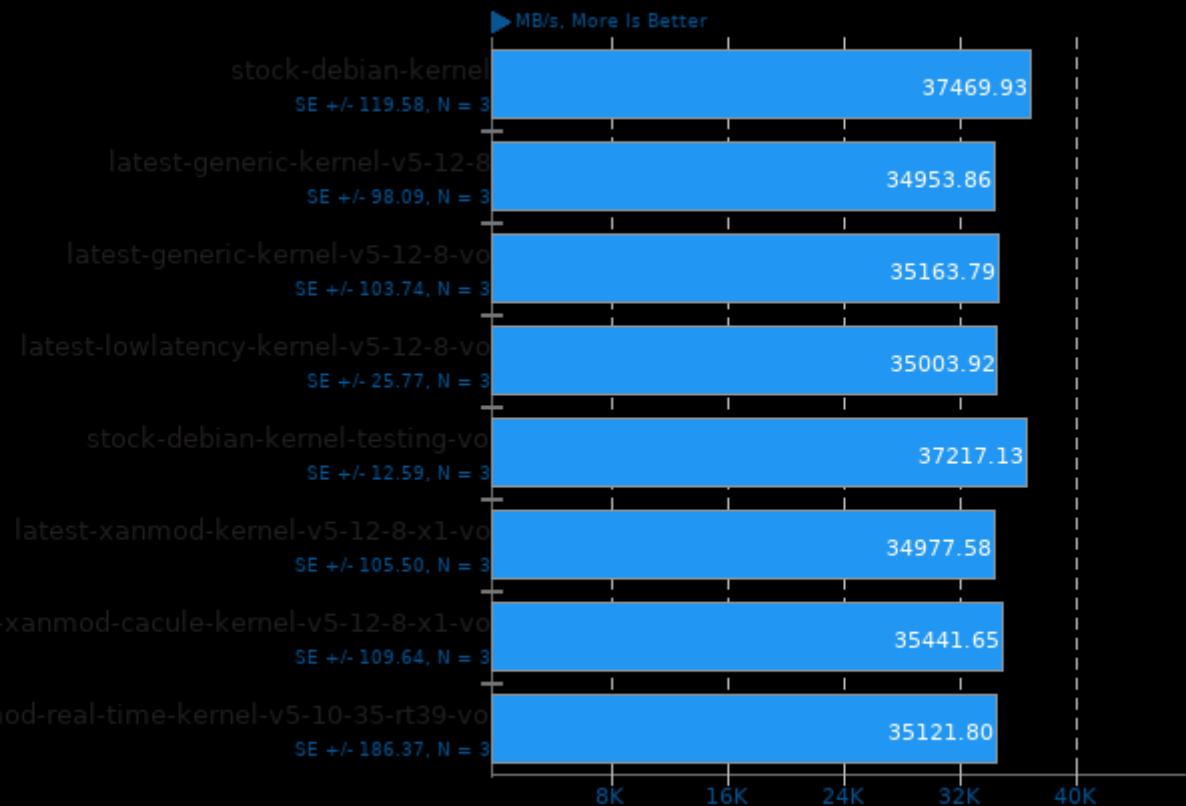
Type: Copy - Benchmark: Integer



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

RAMspeed SMP 3.5.0

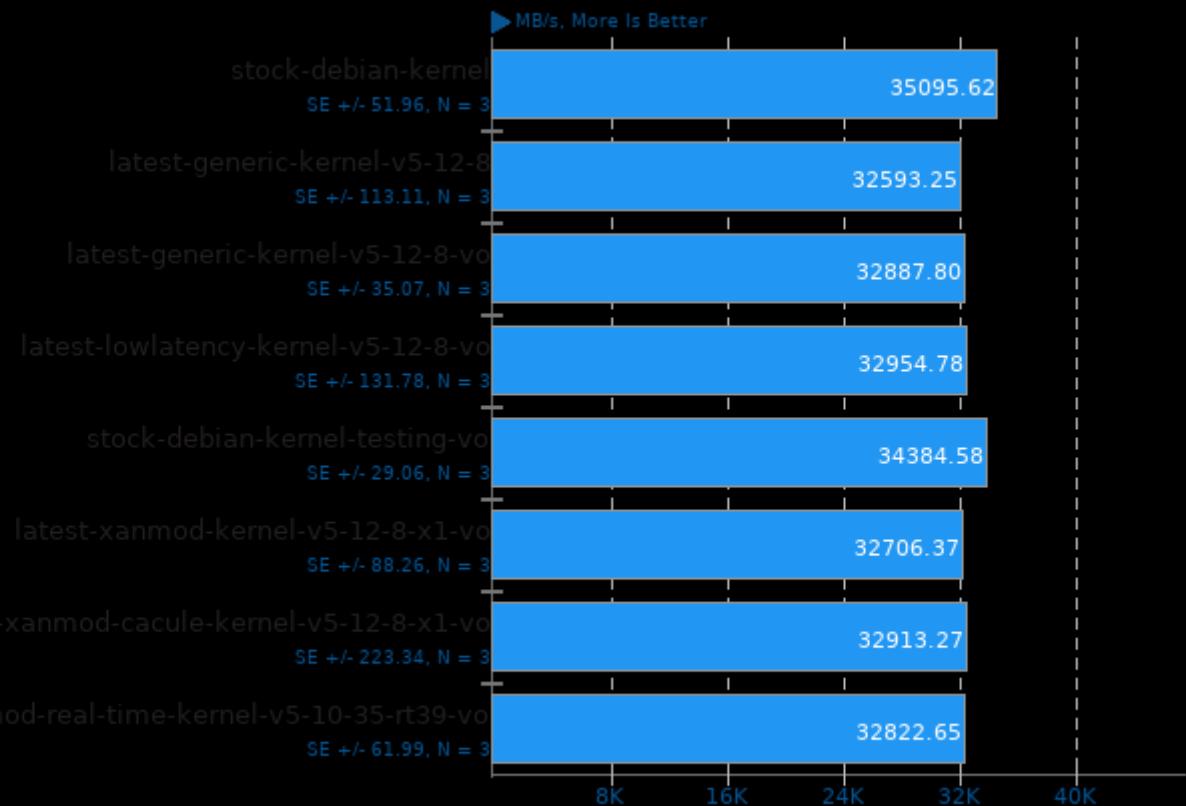
Type: Scale - Benchmark: Integer



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

RAMspeed SMP 3.5.0

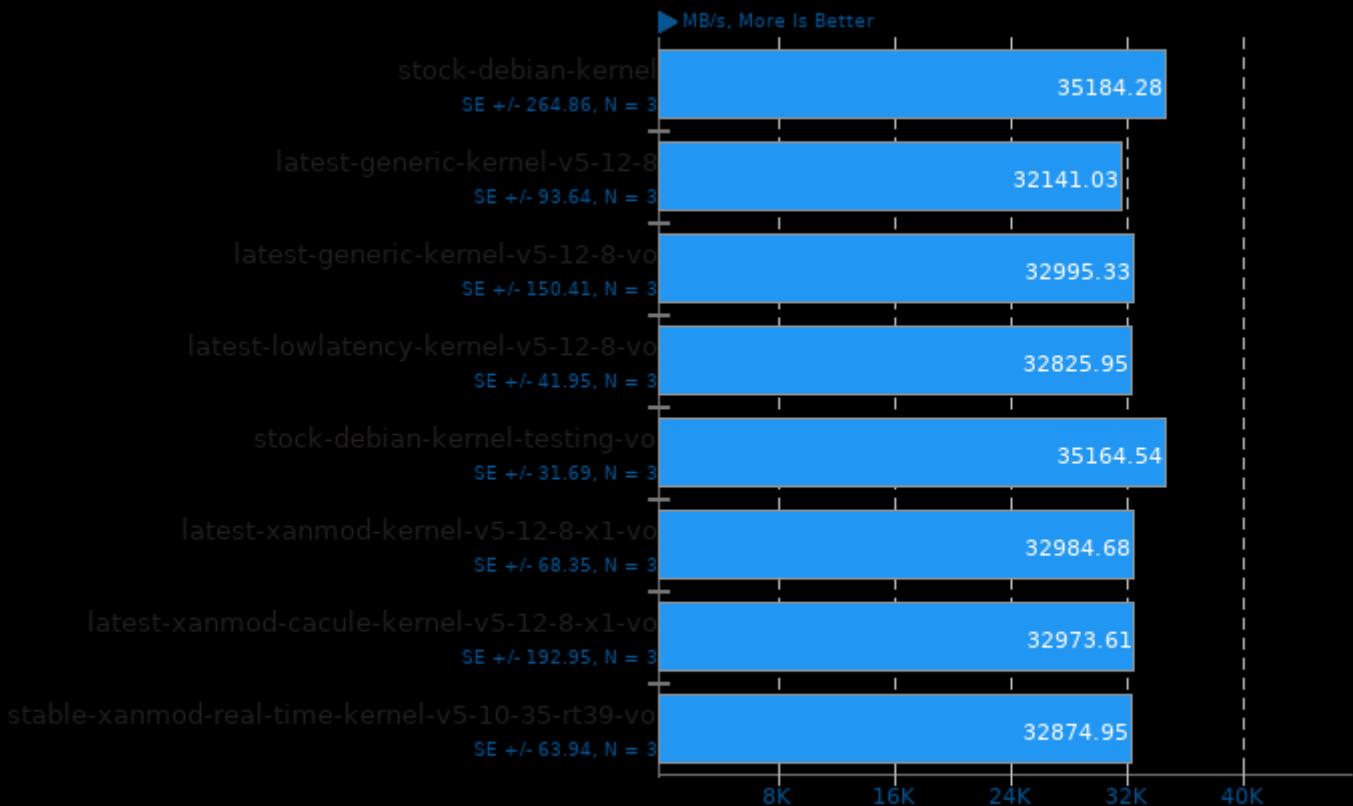
Type: Triad - Benchmark: Integer



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

RAMspeed SMP 3.5.0

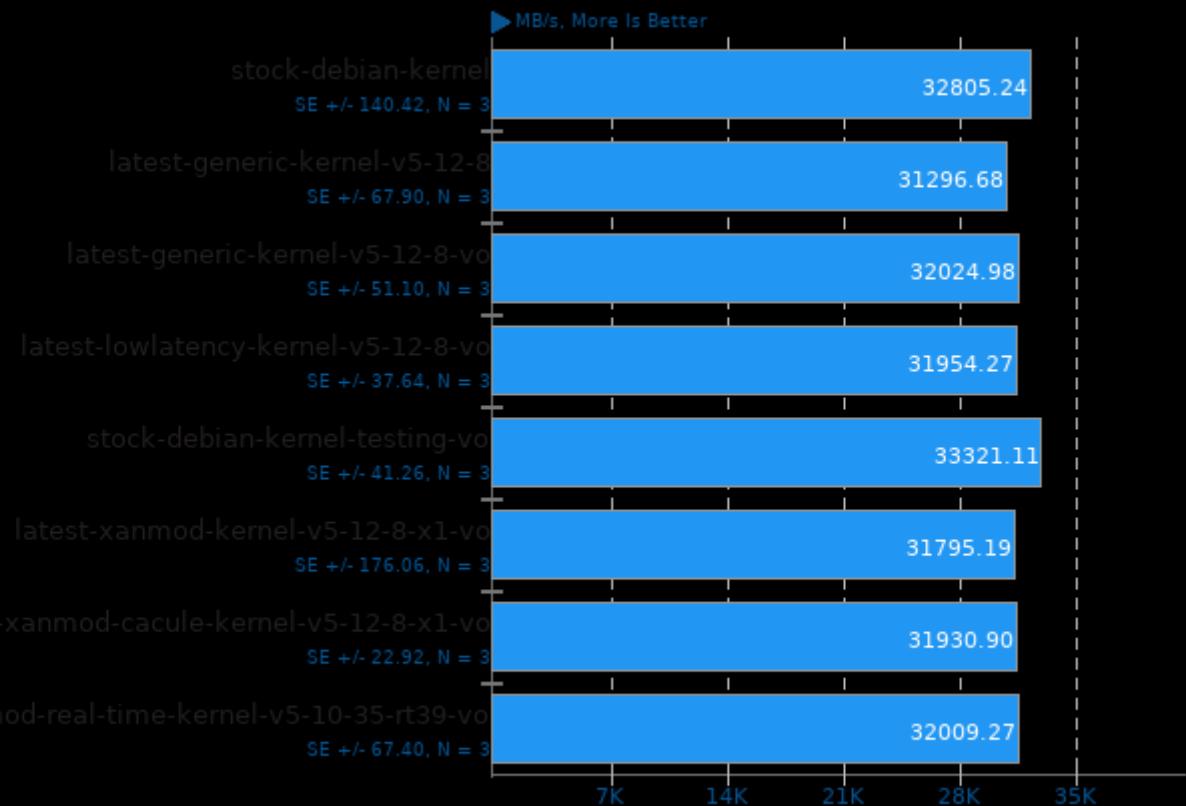
Type: Average - Benchmark: Integer



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

RAMspeed SMP 3.5.0

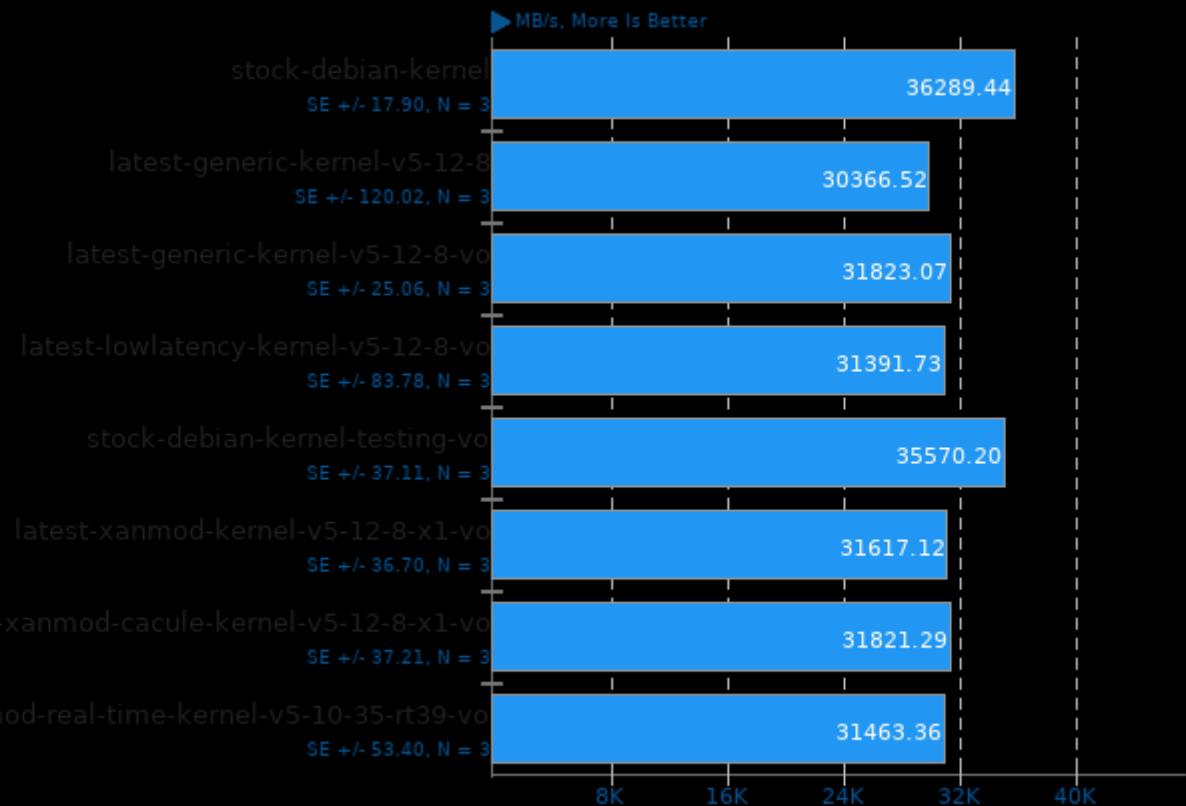
Type: Add - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

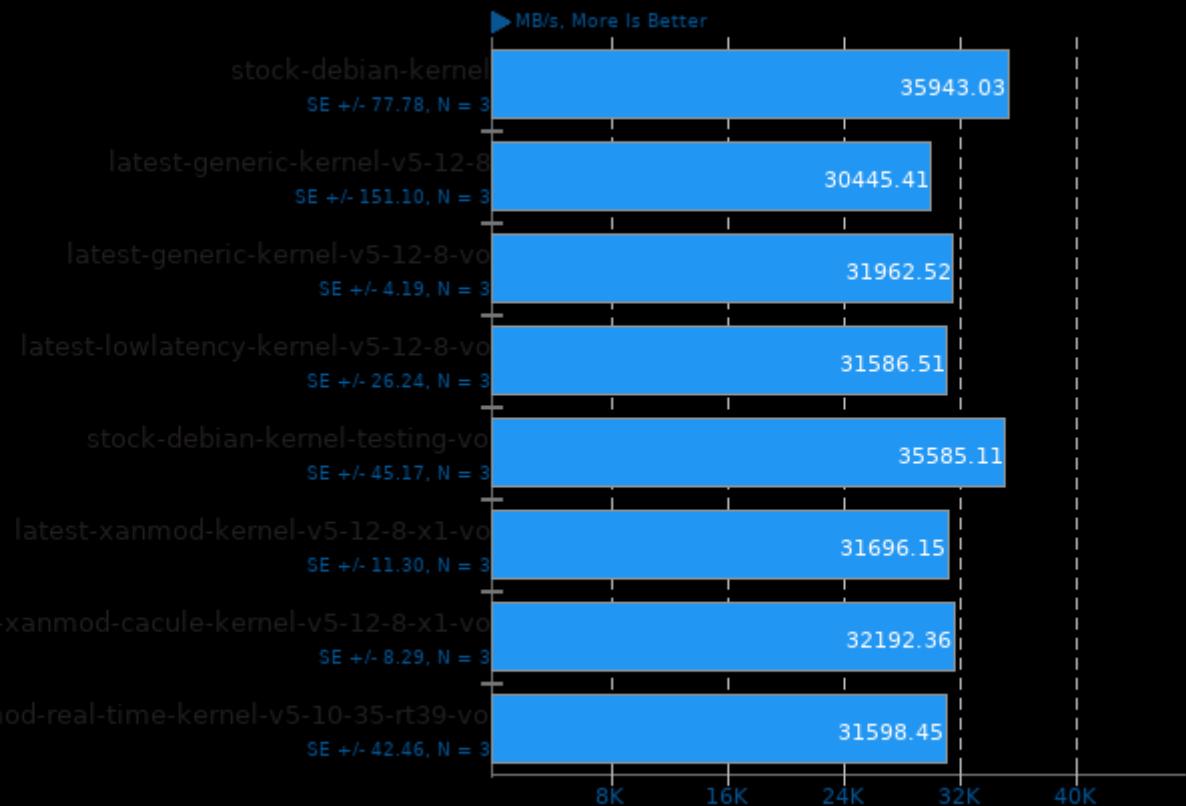
Type: Copy - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

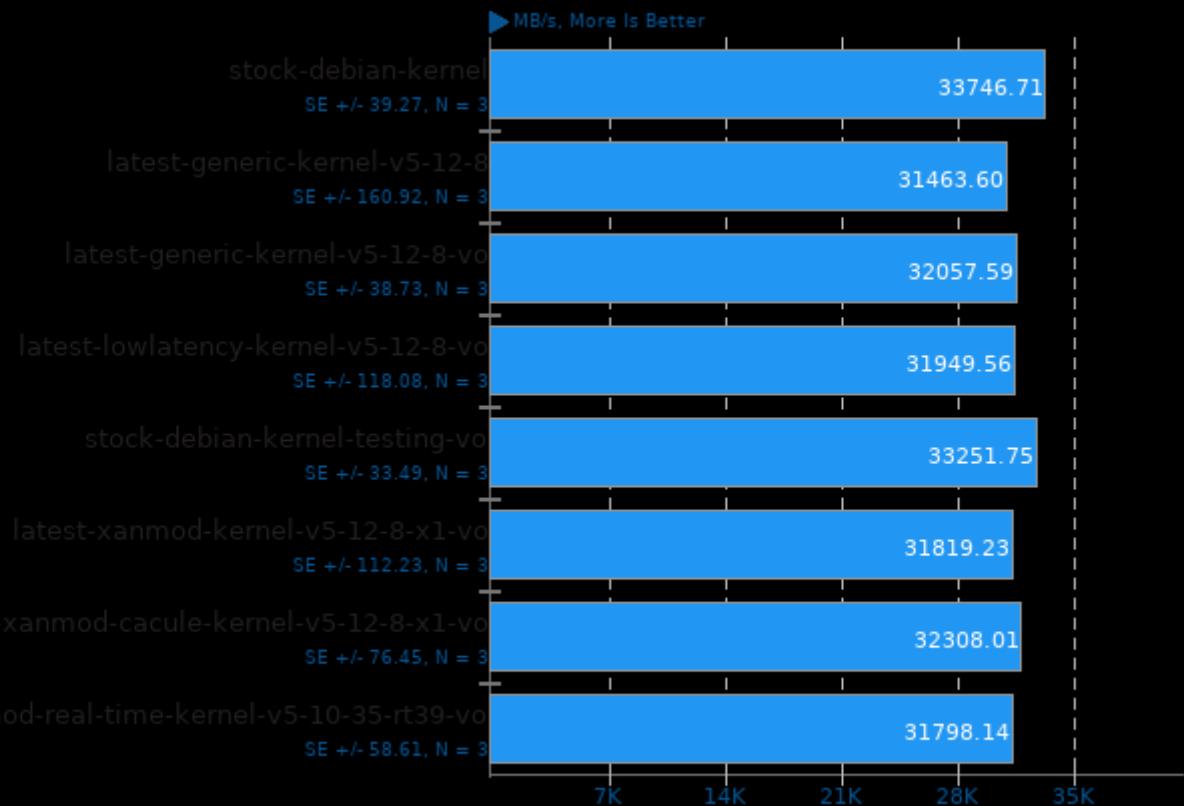
Type: Scale - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

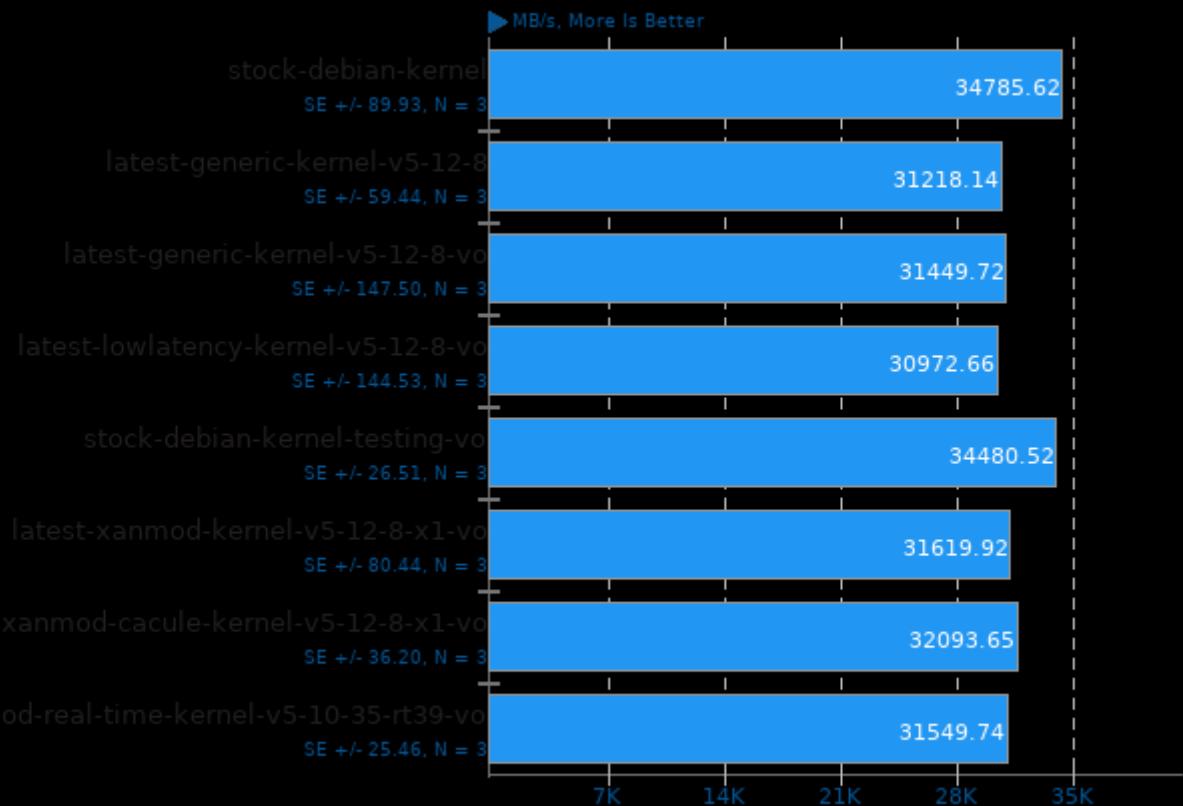
Type: Triad - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

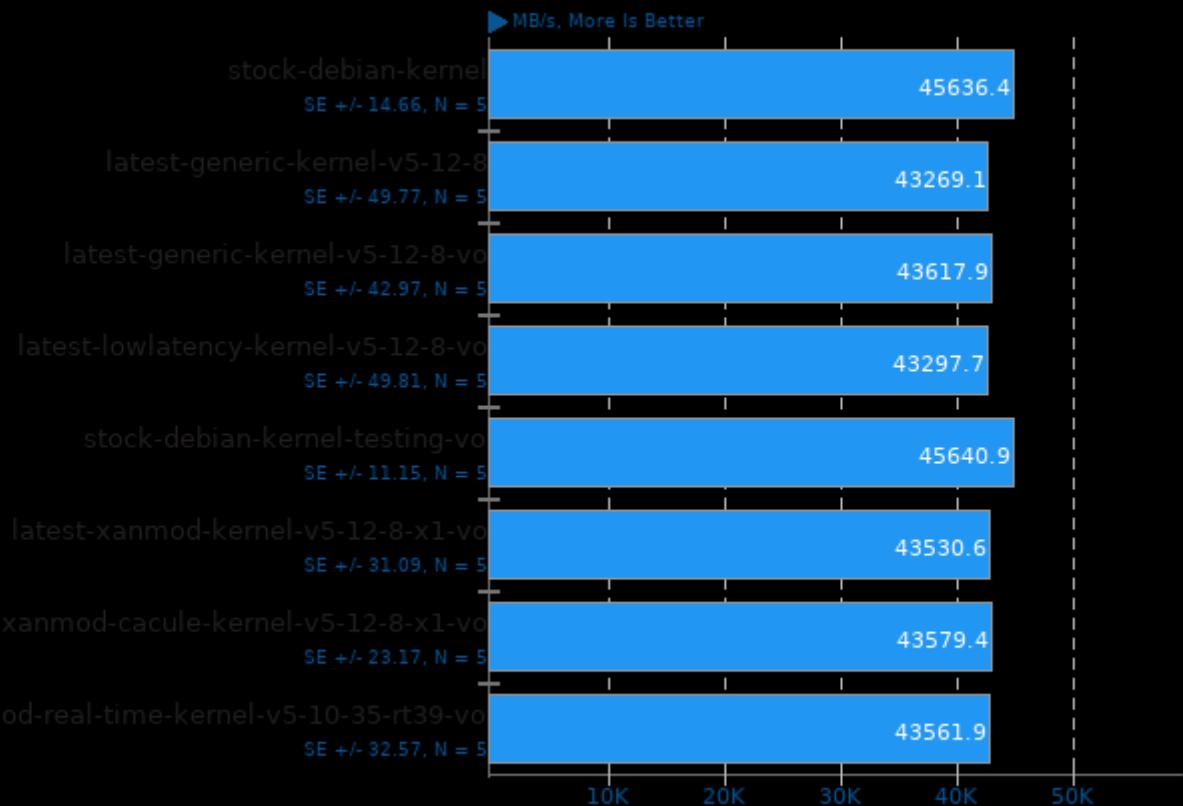
Type: Average - Benchmark: Floating Point



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

Stream 2013-01-17

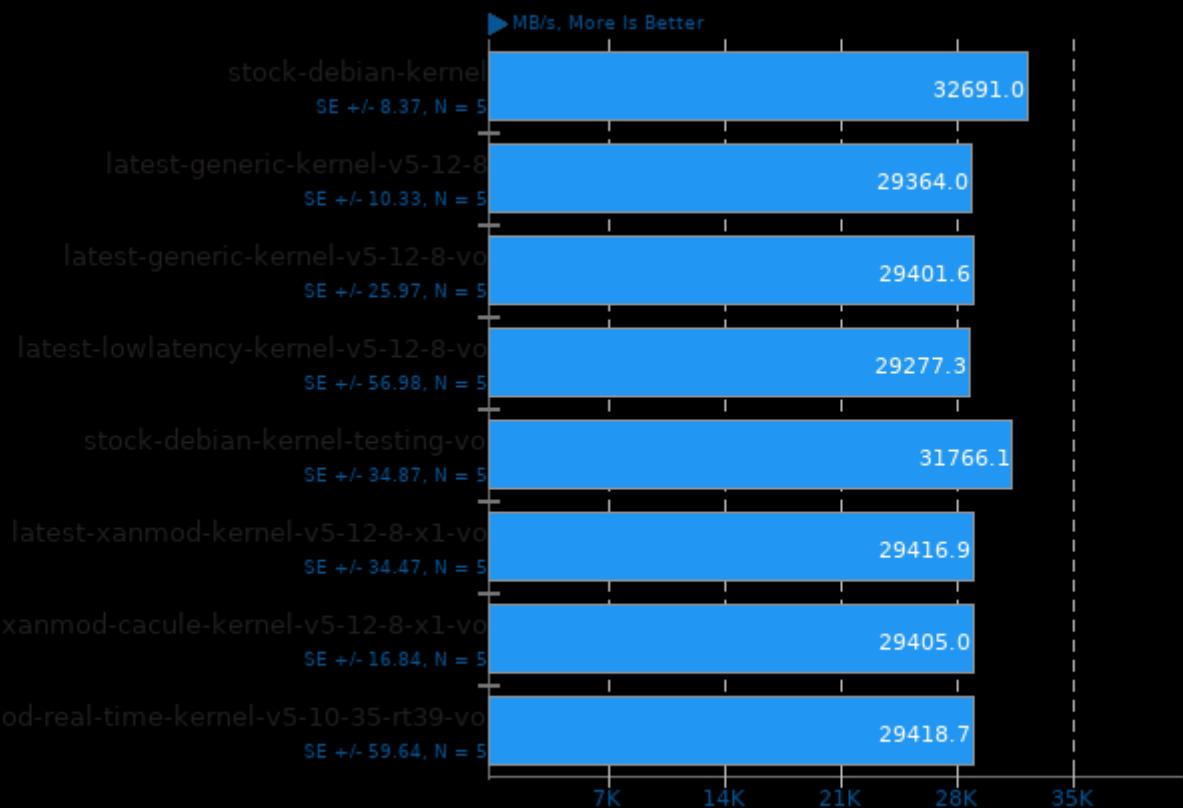
Type: Copy



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

Stream 2013-01-17

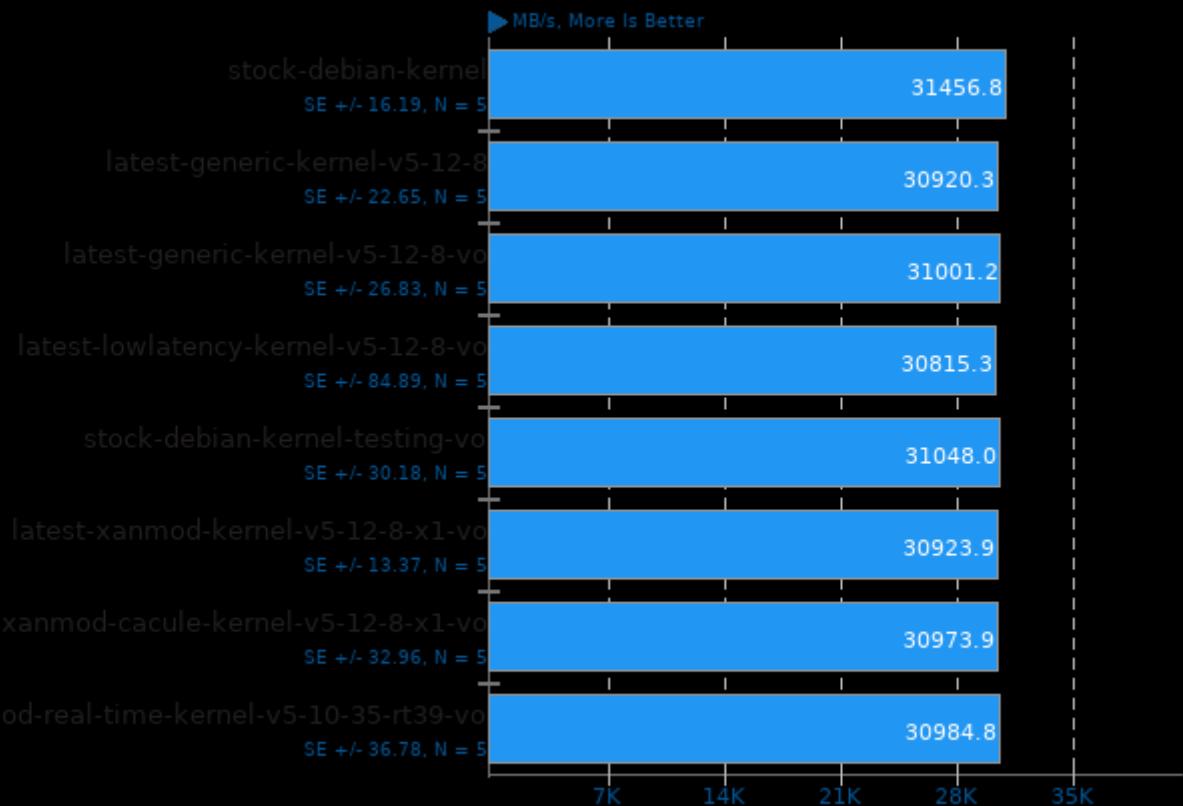
Type: Scale



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

Stream 2013-01-17

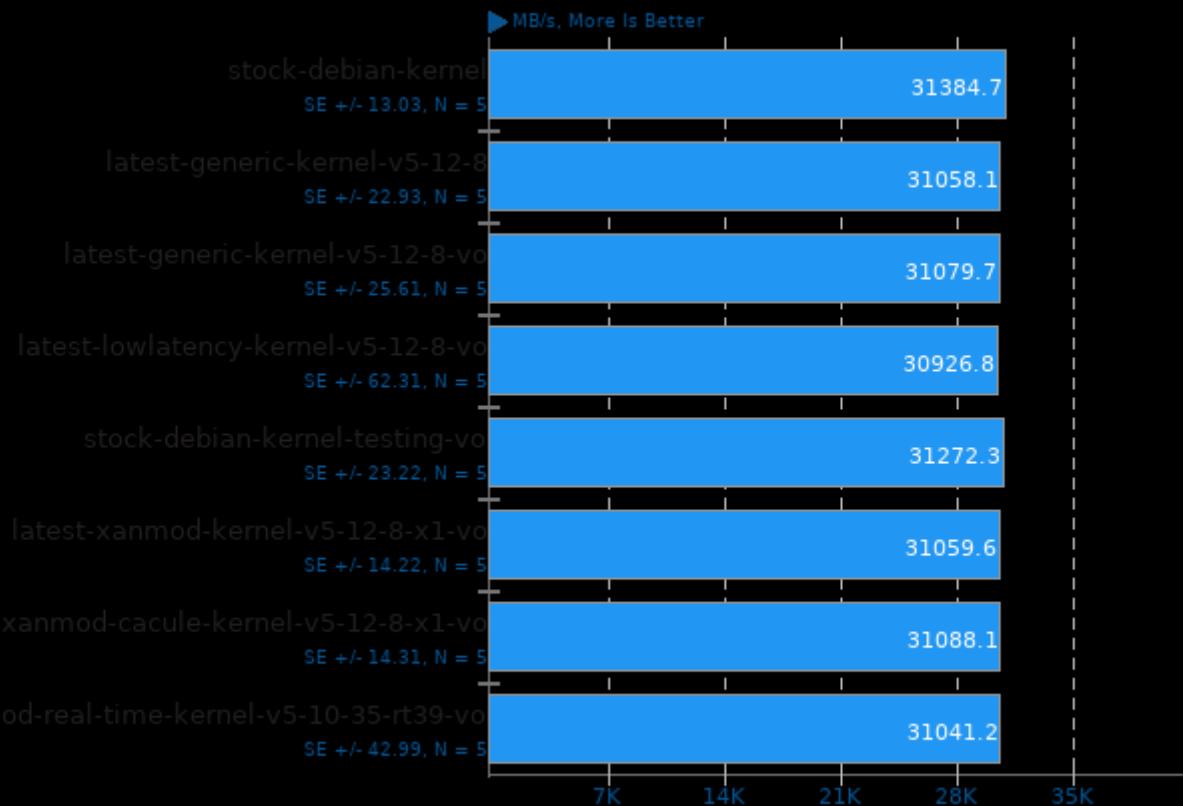
Type: Triad



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

Stream 2013-01-17

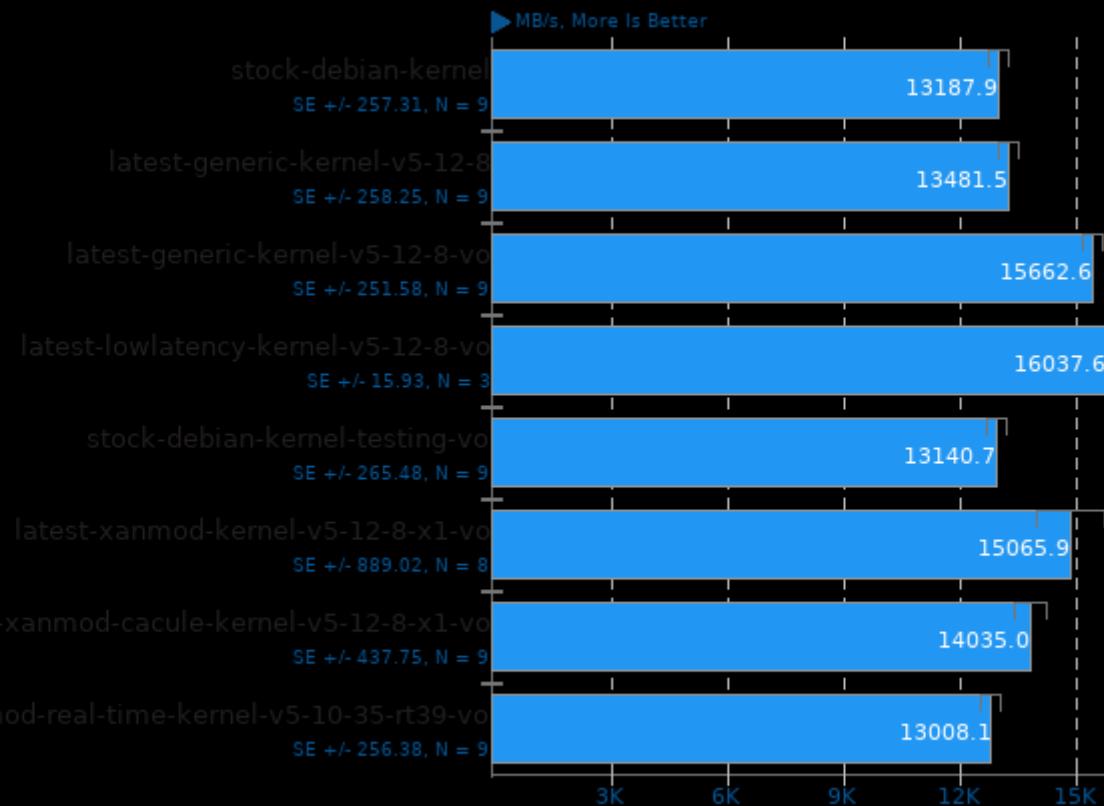
Type: Add



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

Tinymembench 2018-05-28

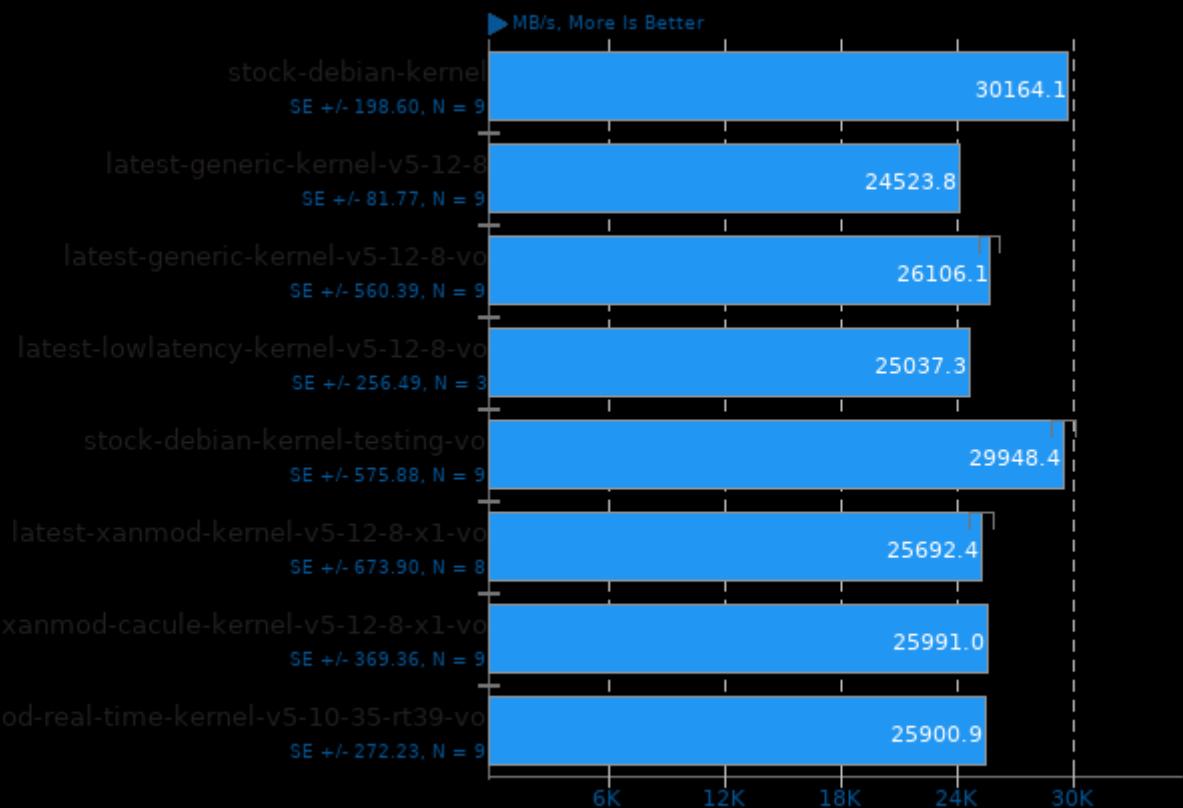
Standard Memcpy



1. (CC) gcc options: -O2 -lm

Tinymembench 2018-05-28

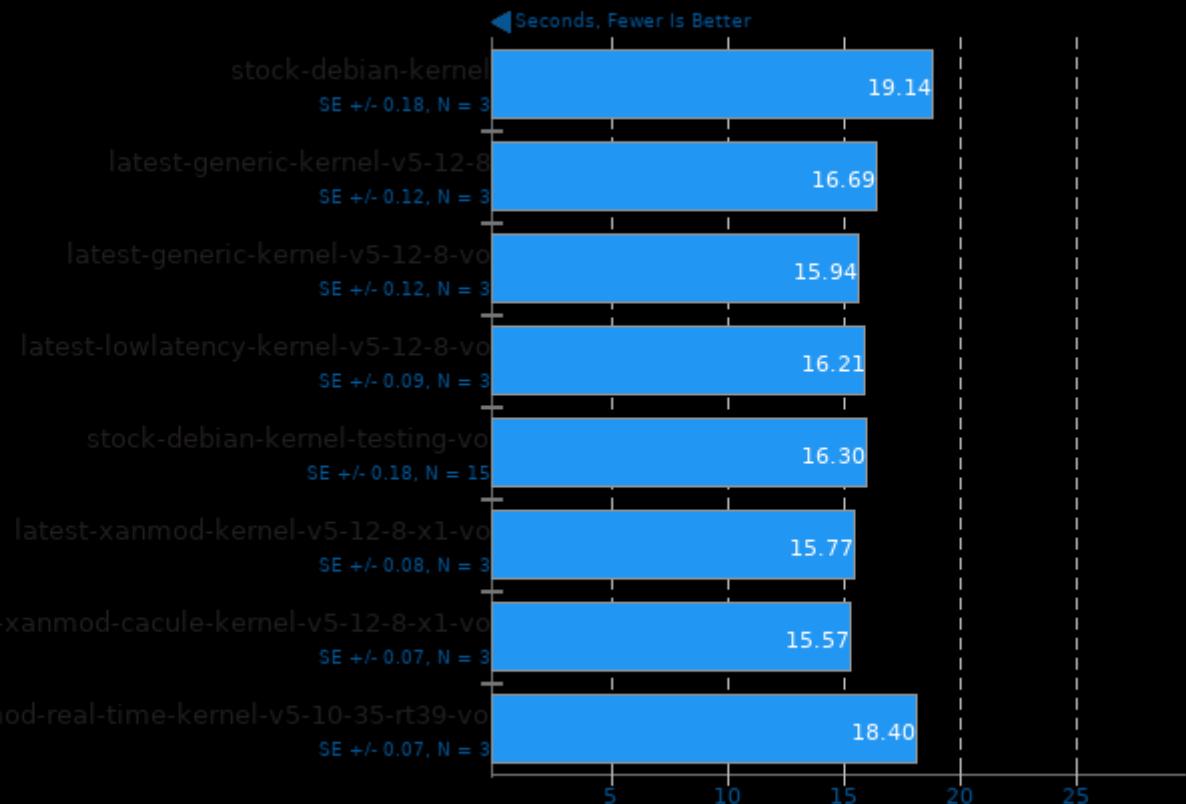
Standard Memset



1. (CC) gcc options: -O2 -lm

t-test1 2017-01-13

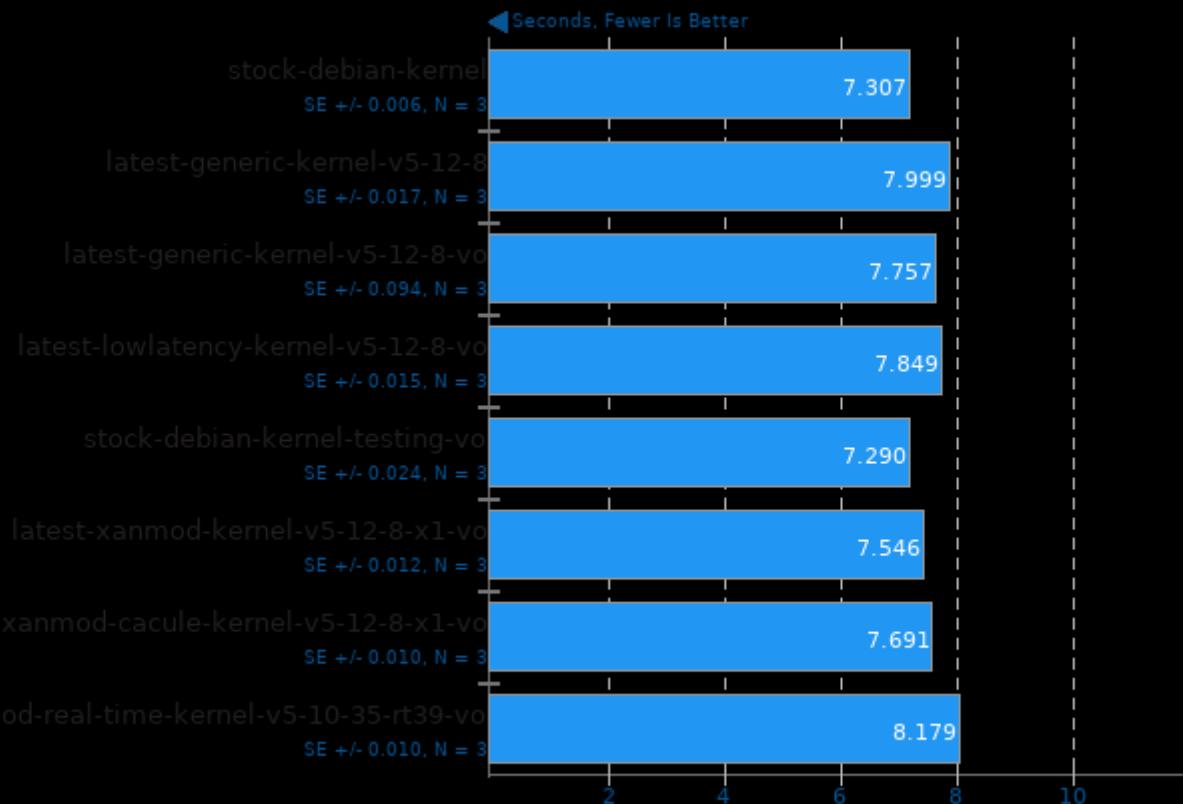
Threads: 1



1. (CC) gcc options: -pthread

t-test1 2017-01-13

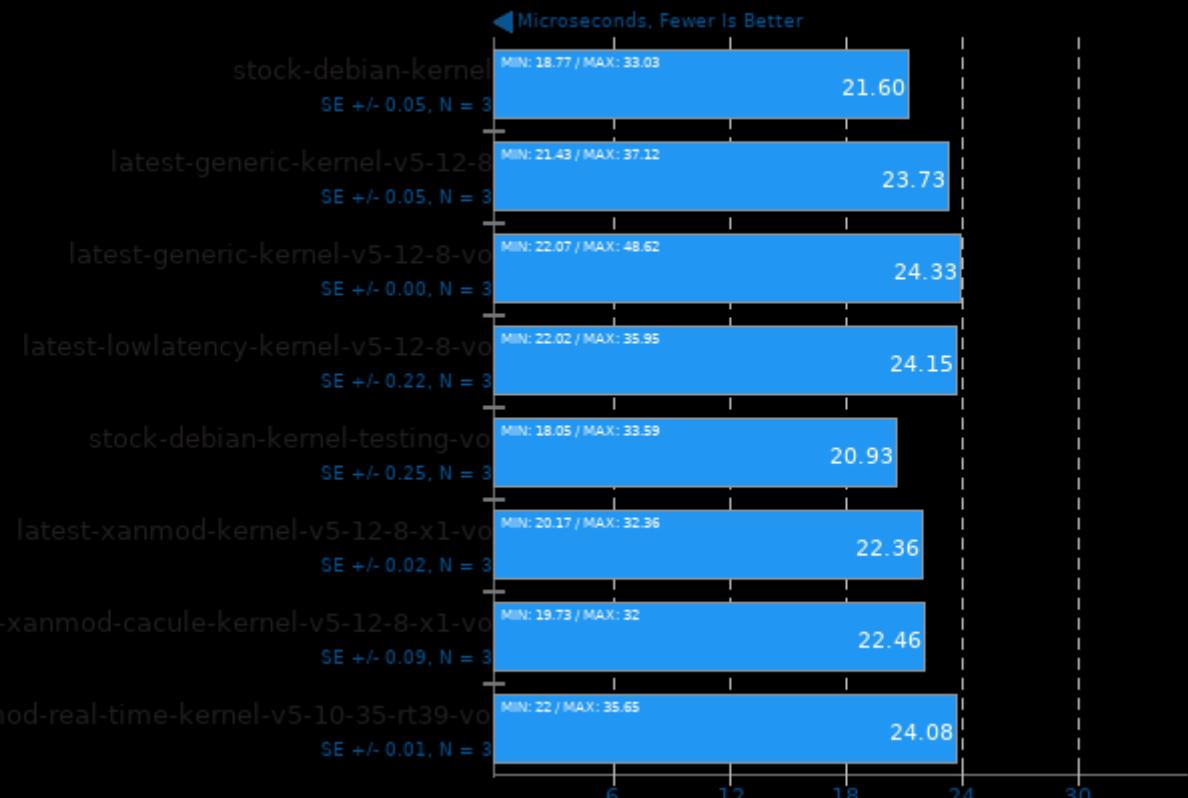
Threads: 2



1. (CC) gcc options: -pthread

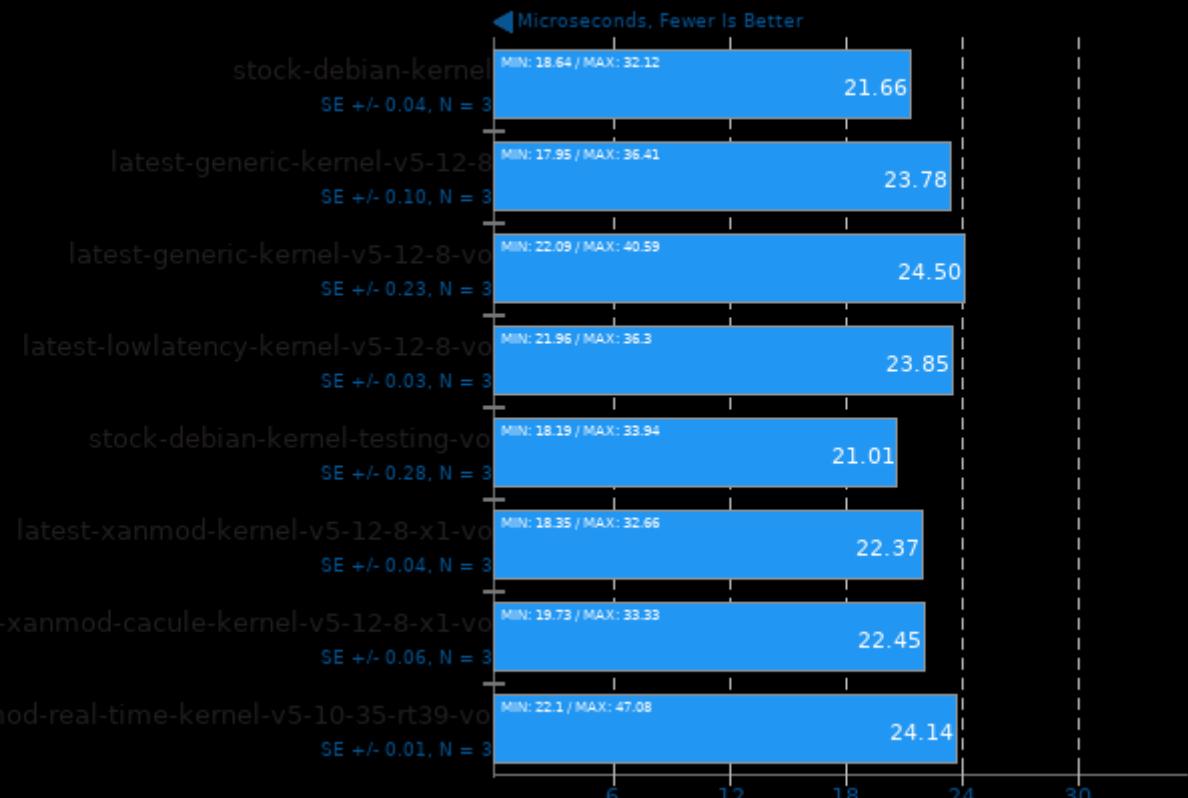
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 1



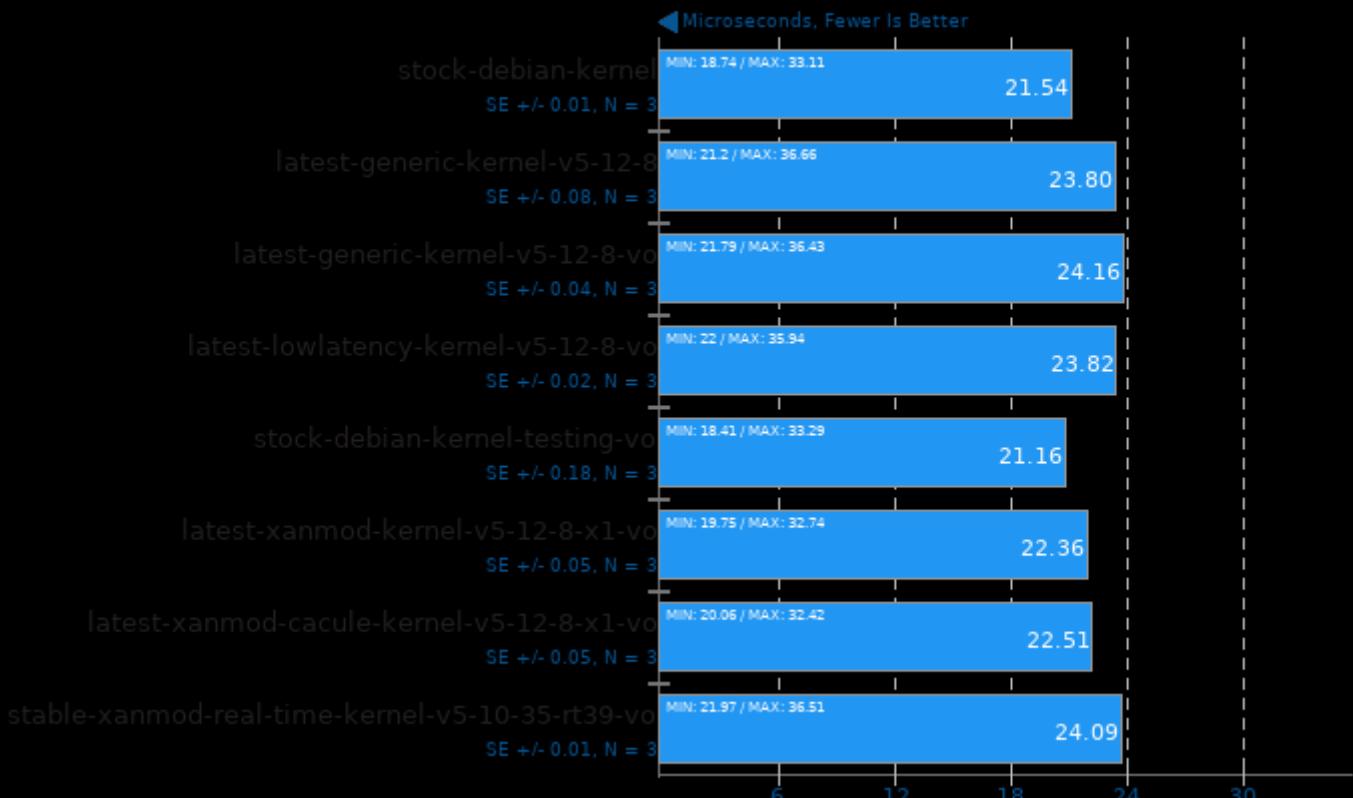
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 2



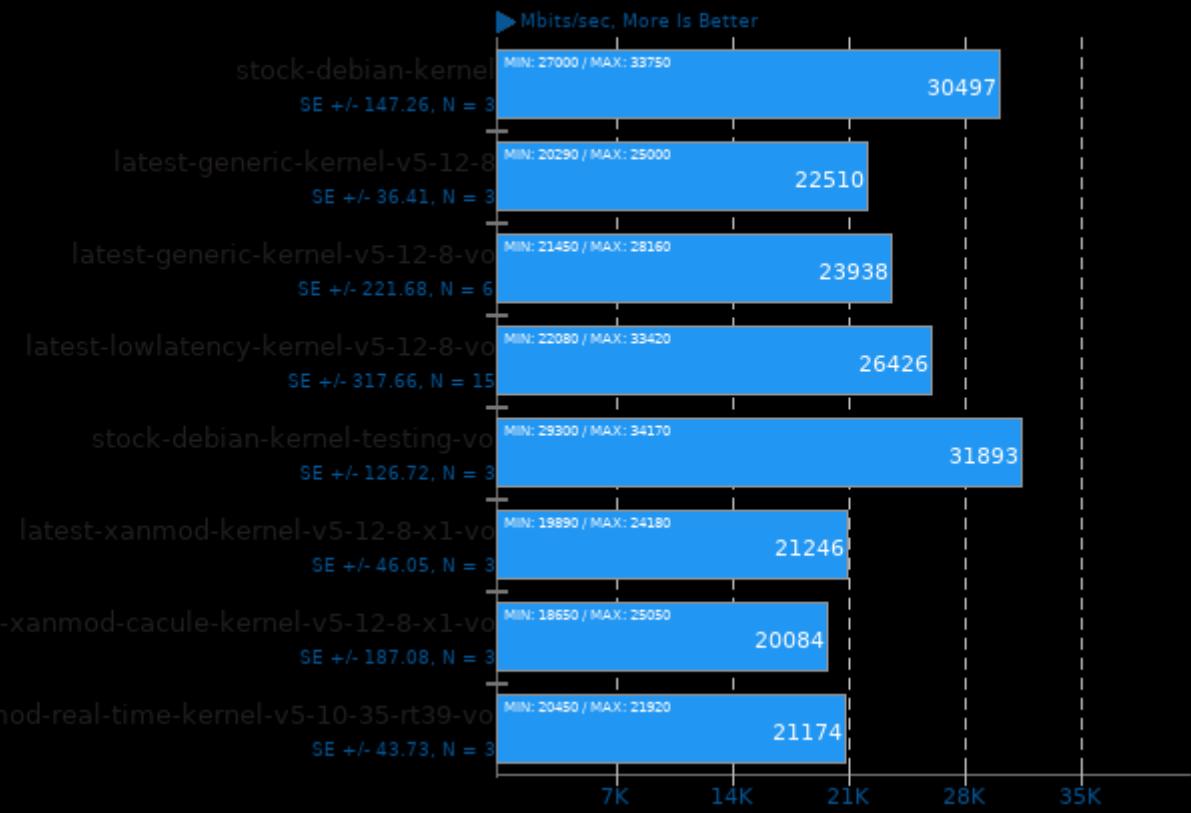
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 16



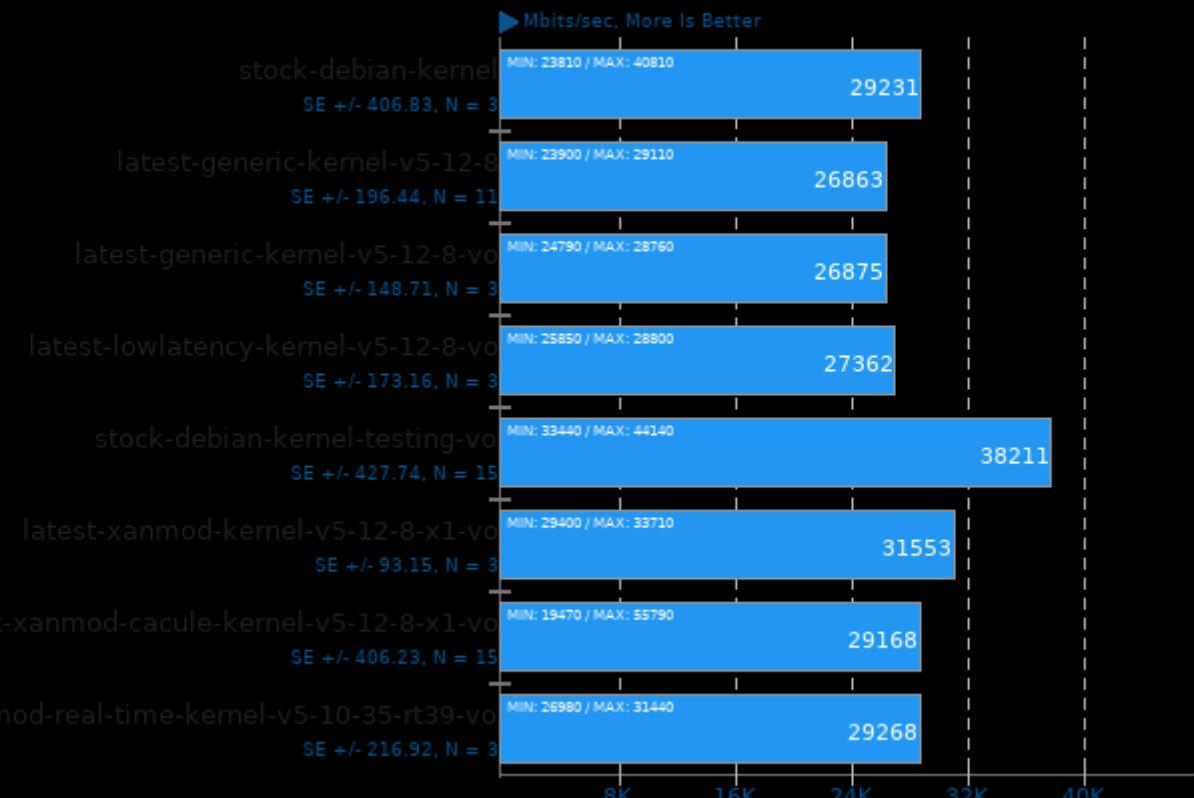
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 2



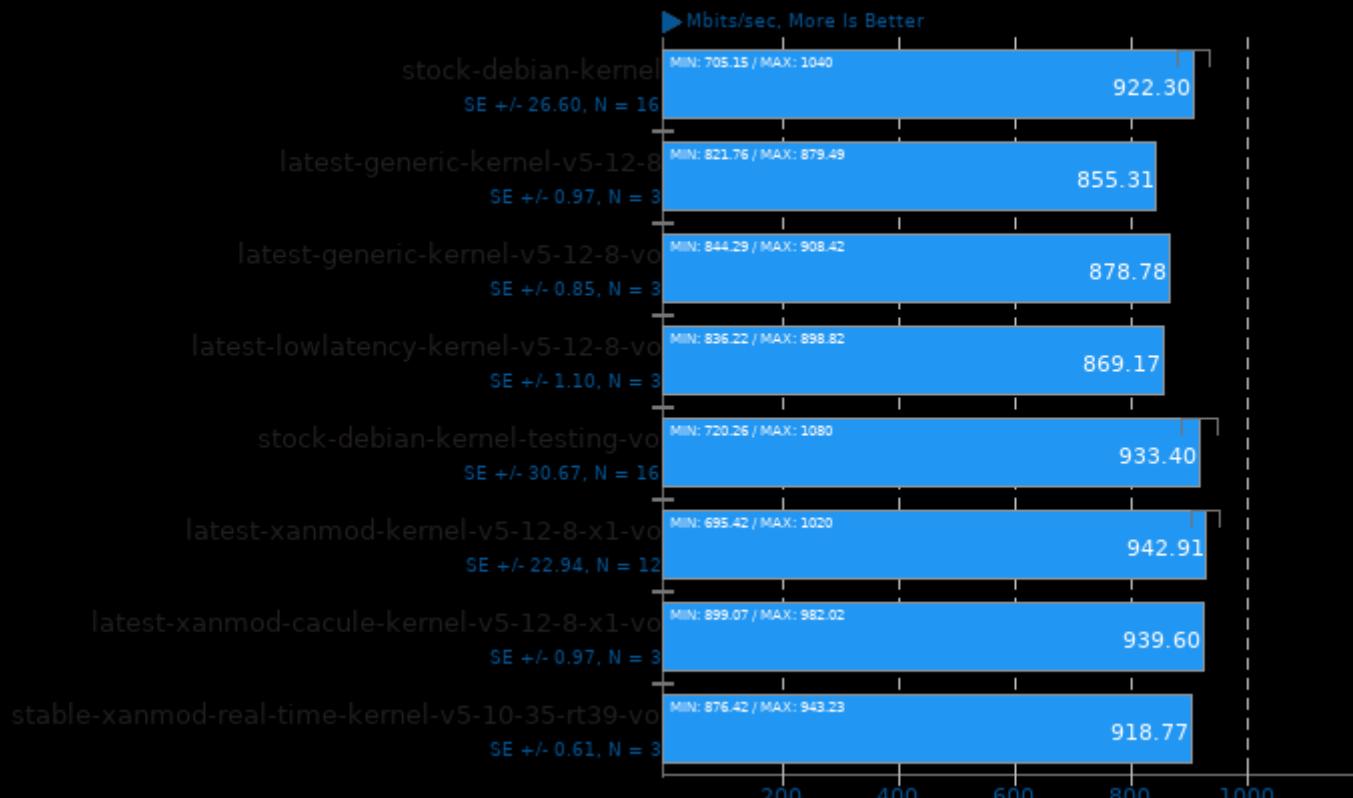
Ethr 2019-01-02

Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 2



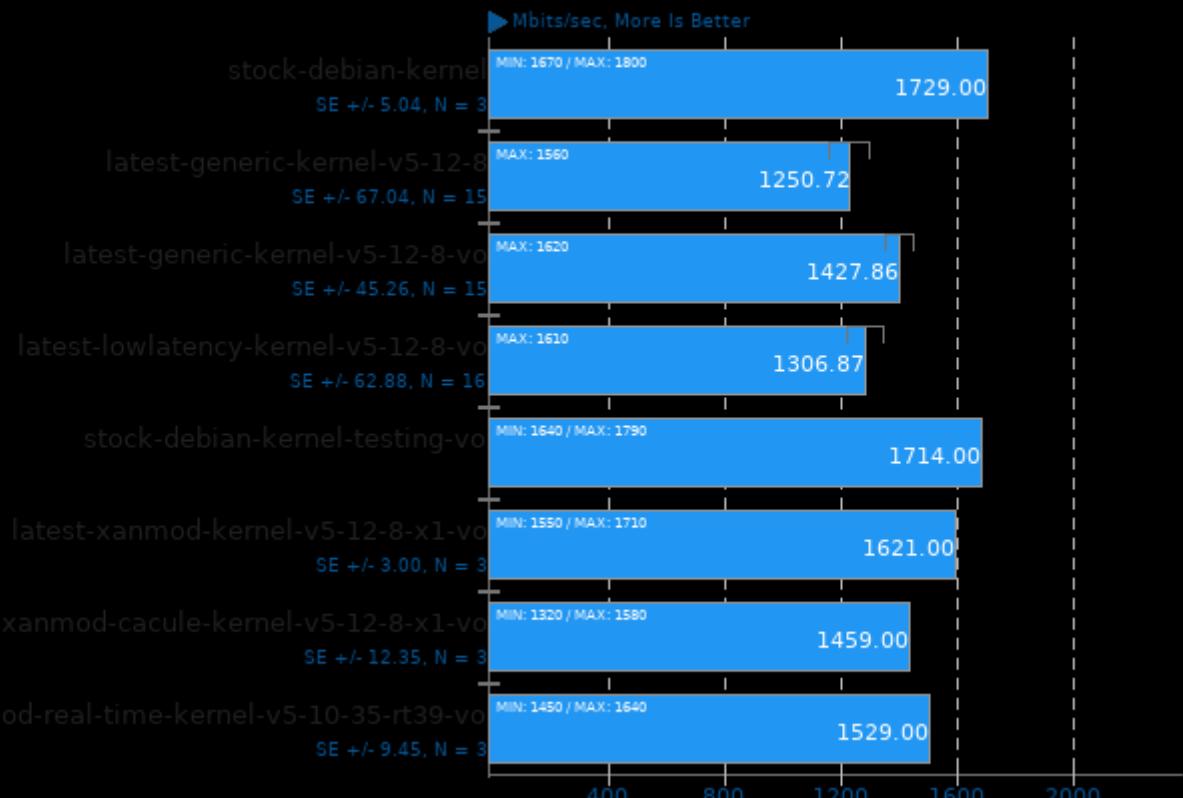
Ethr 2019-01-02

Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 1



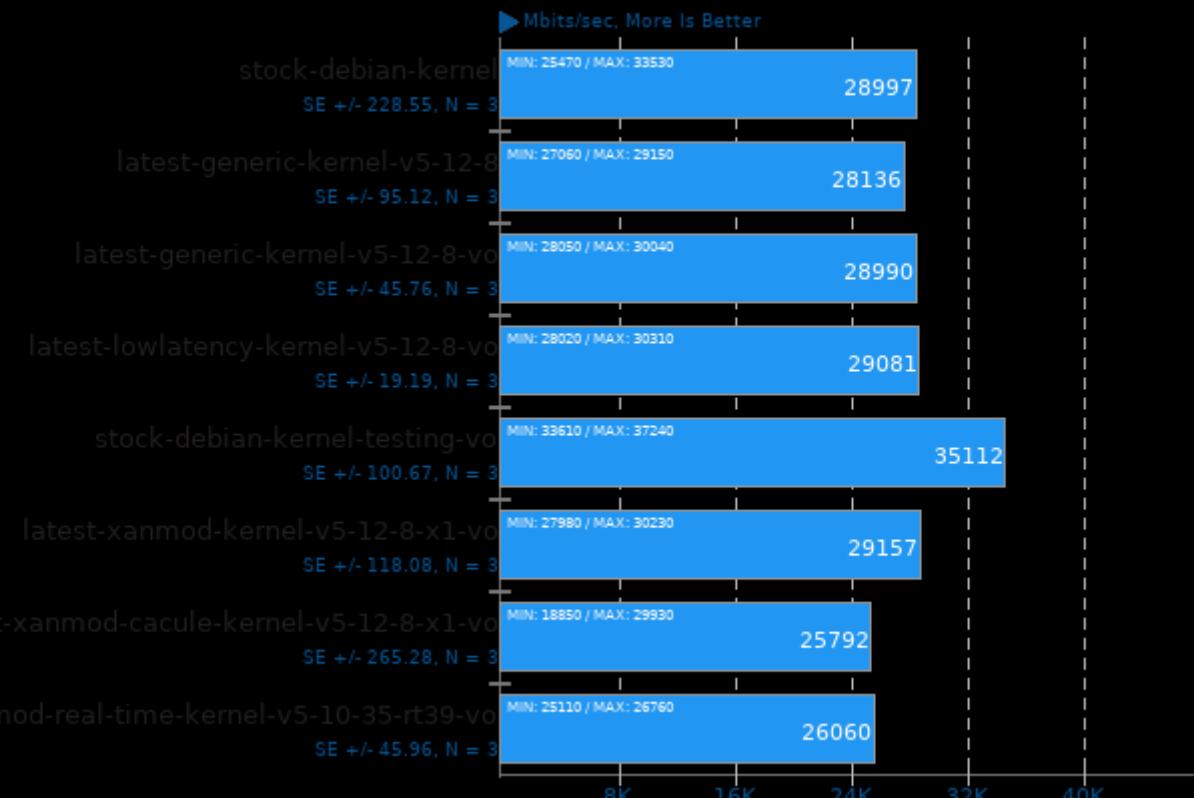
Ethr 2019-01-02

Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 2



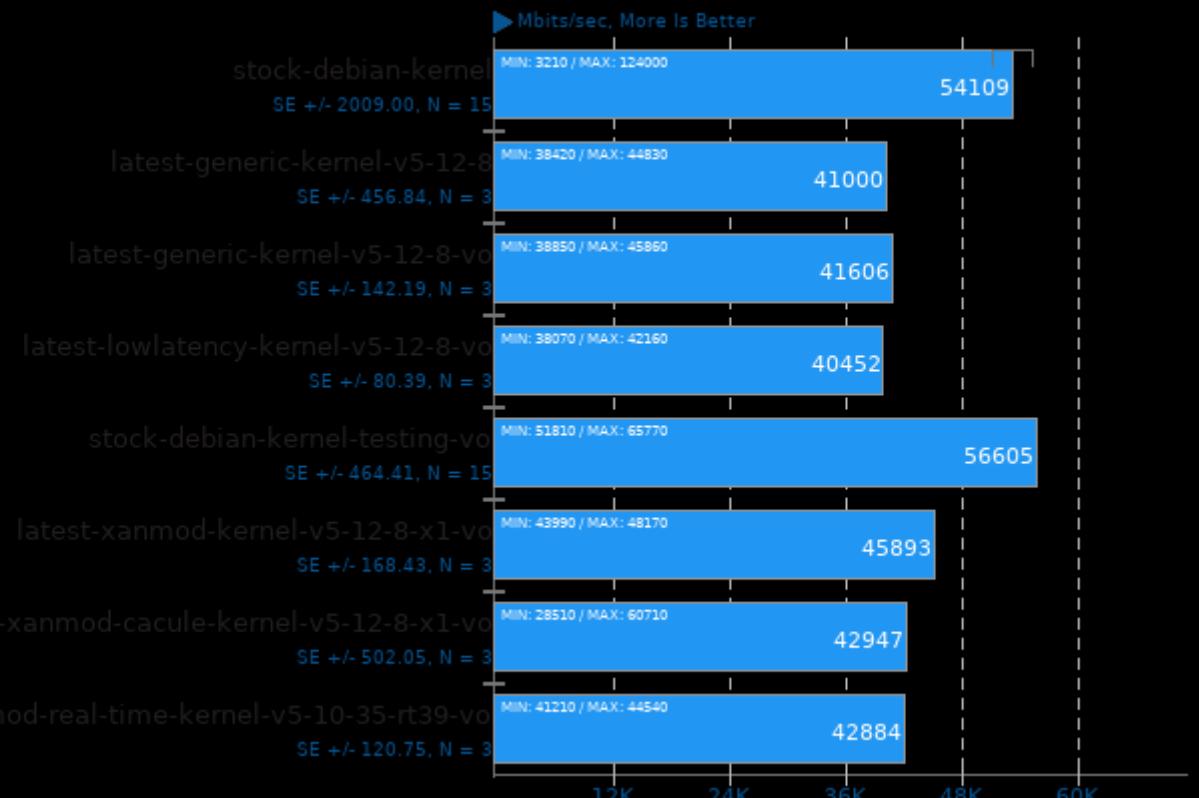
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 16



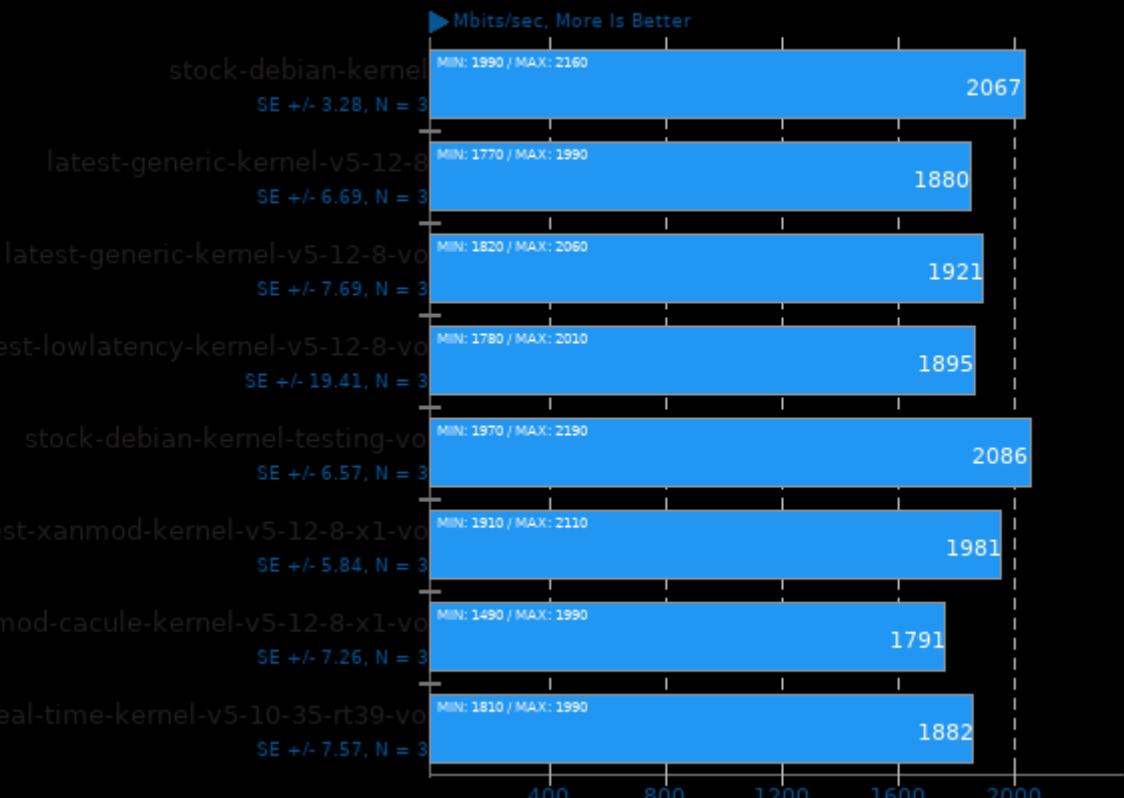
Ethr 2019-01-02

Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 16



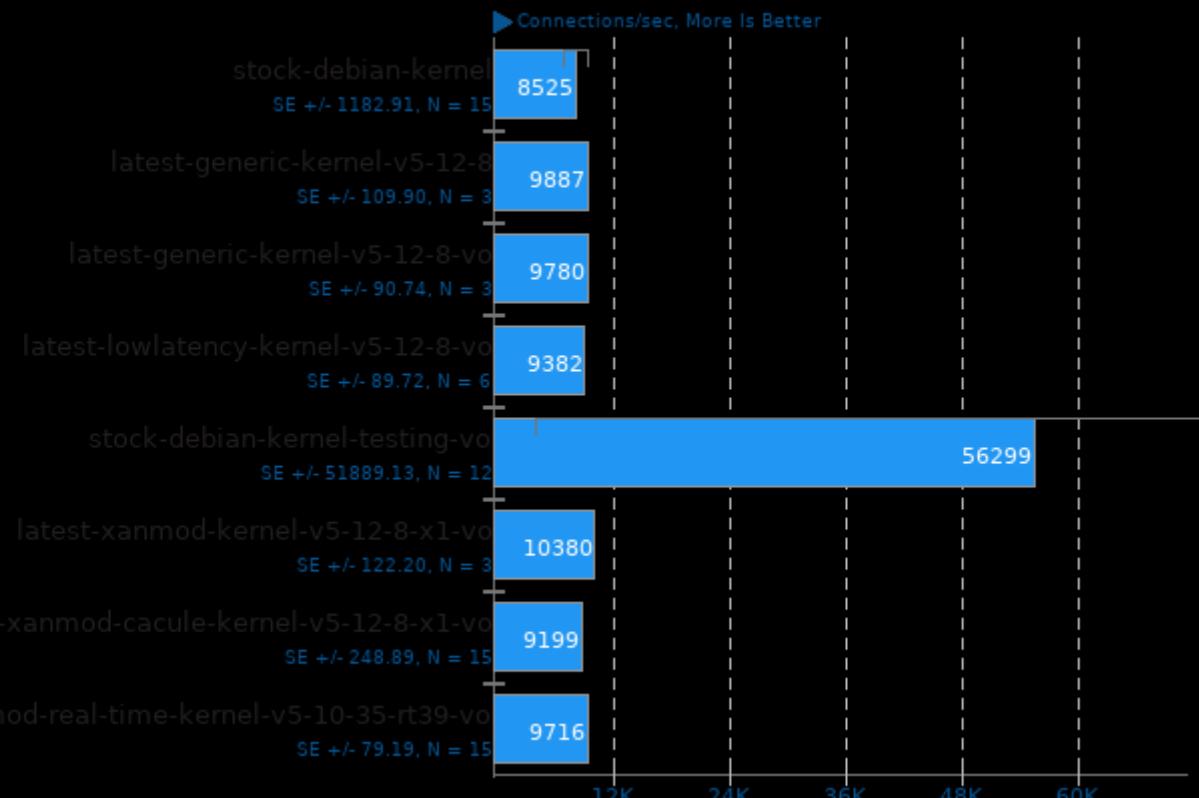
Ethr 2019-01-02

Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 16



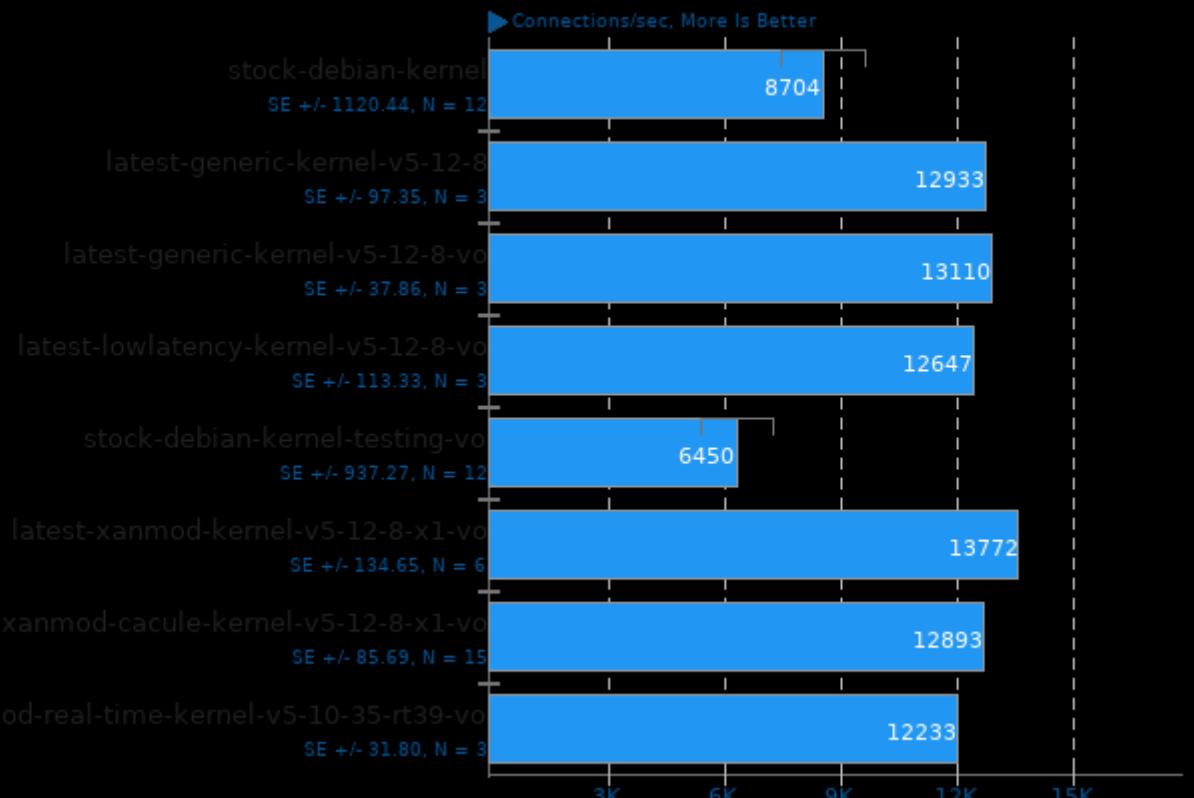
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 1



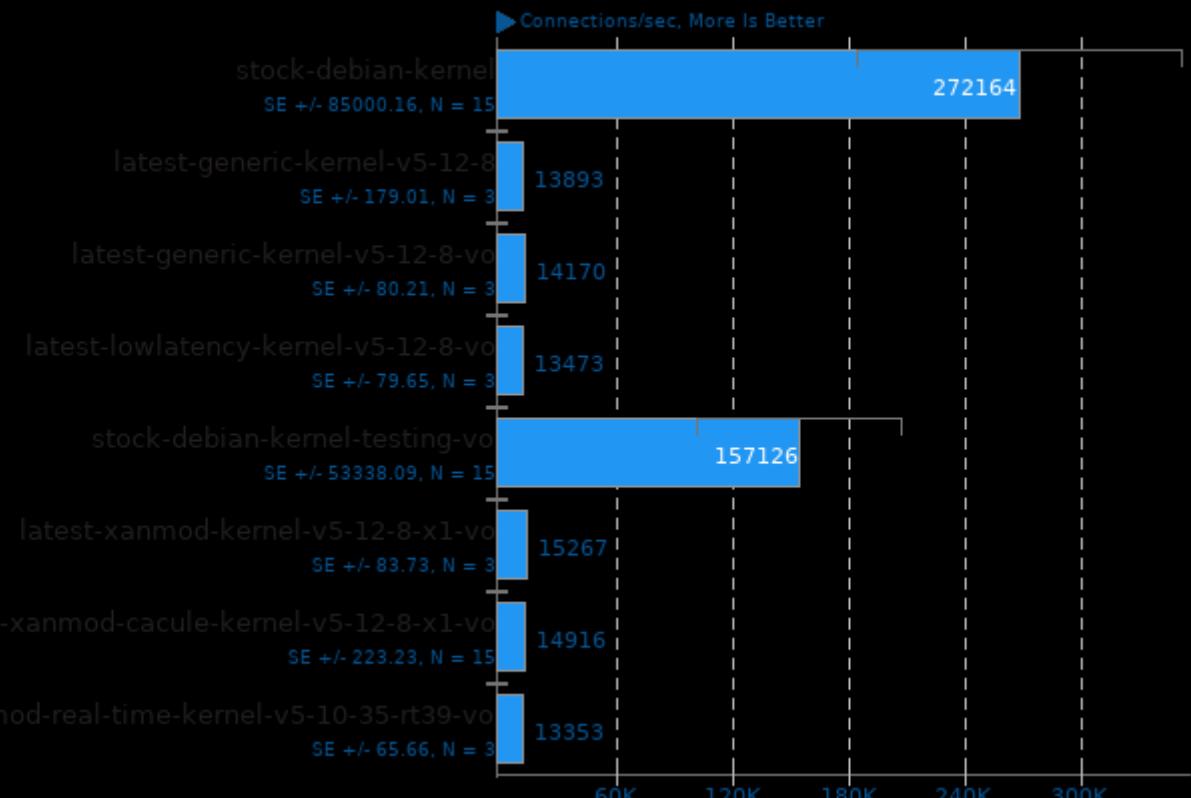
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 2



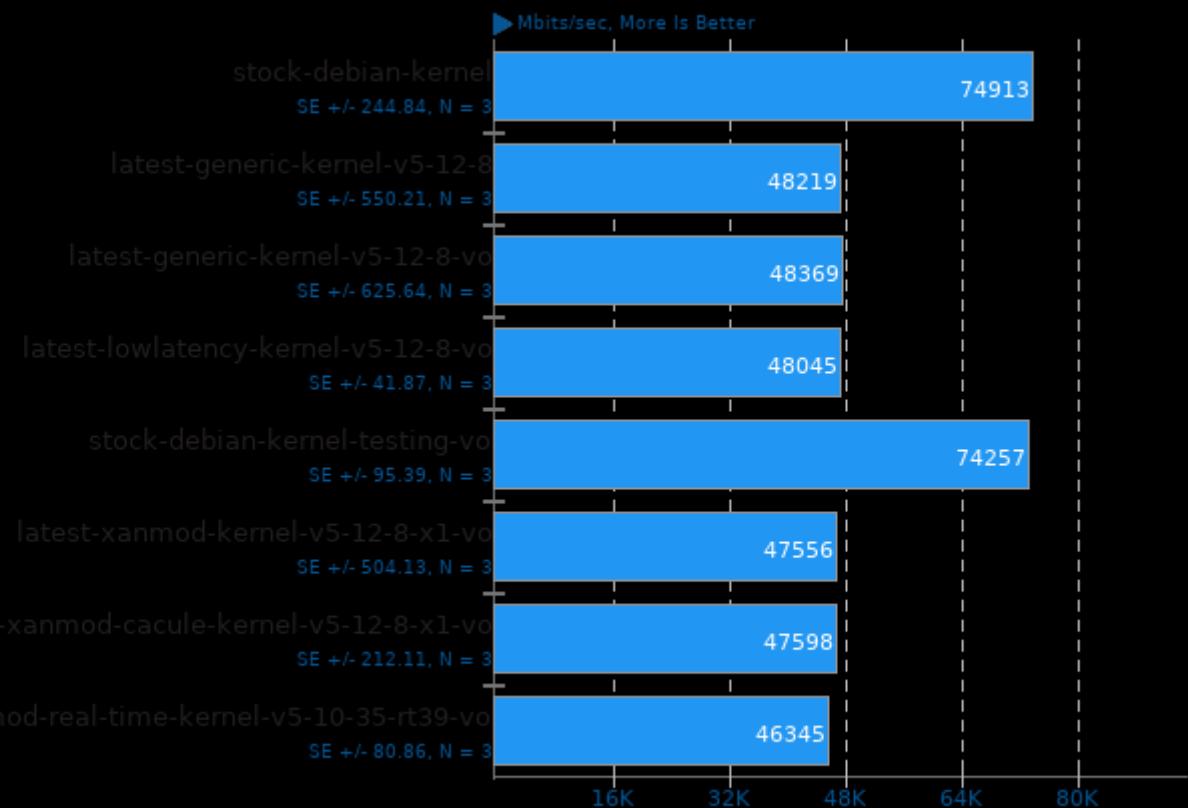
Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 16



iPerf 3.7

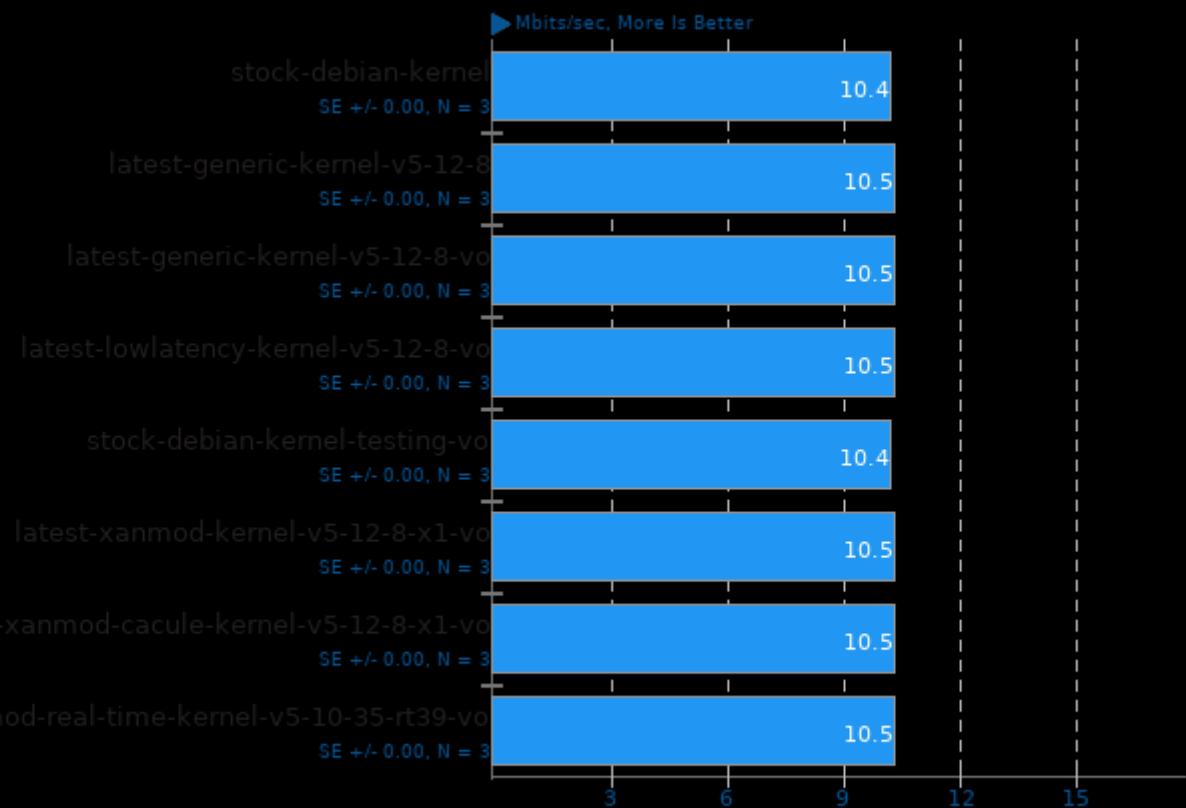
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: TCP - Parallel: 10



1. (CC) gcc options: -O3 -march=native -lssl -lcrypto -lm

iPerf 3.7

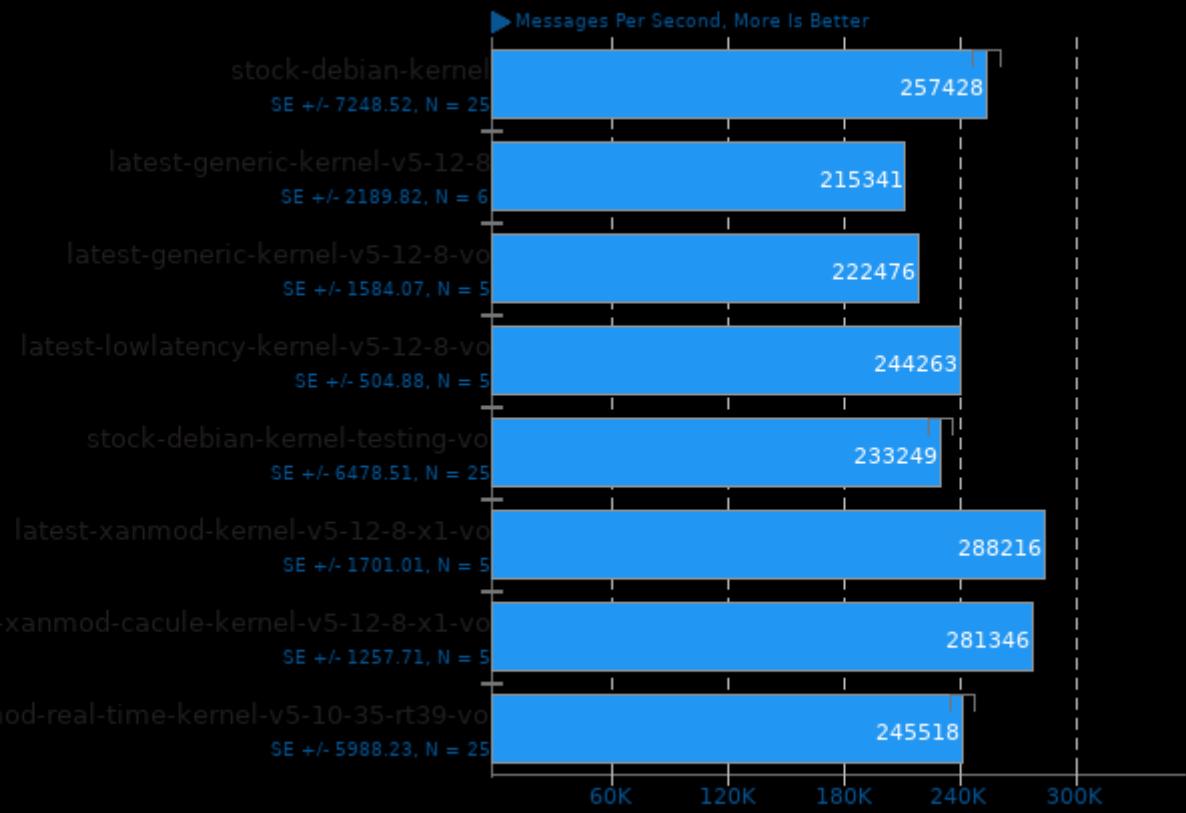
Server Address: localhost - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - Parallel: 10



1. (CC) gcc options: -O3 -march=native -lssl -lcrypto -lm

Sockperf 3.4

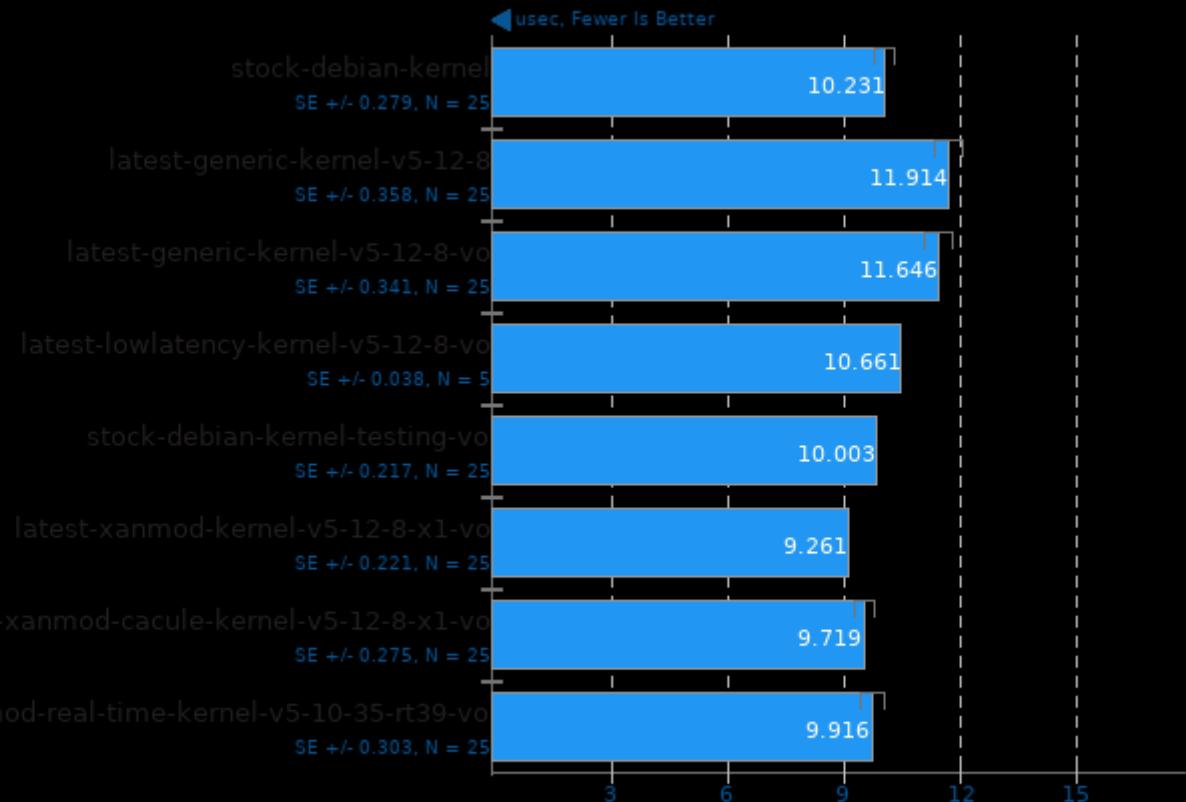
Test: Throughput



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

Sockperf 3.4

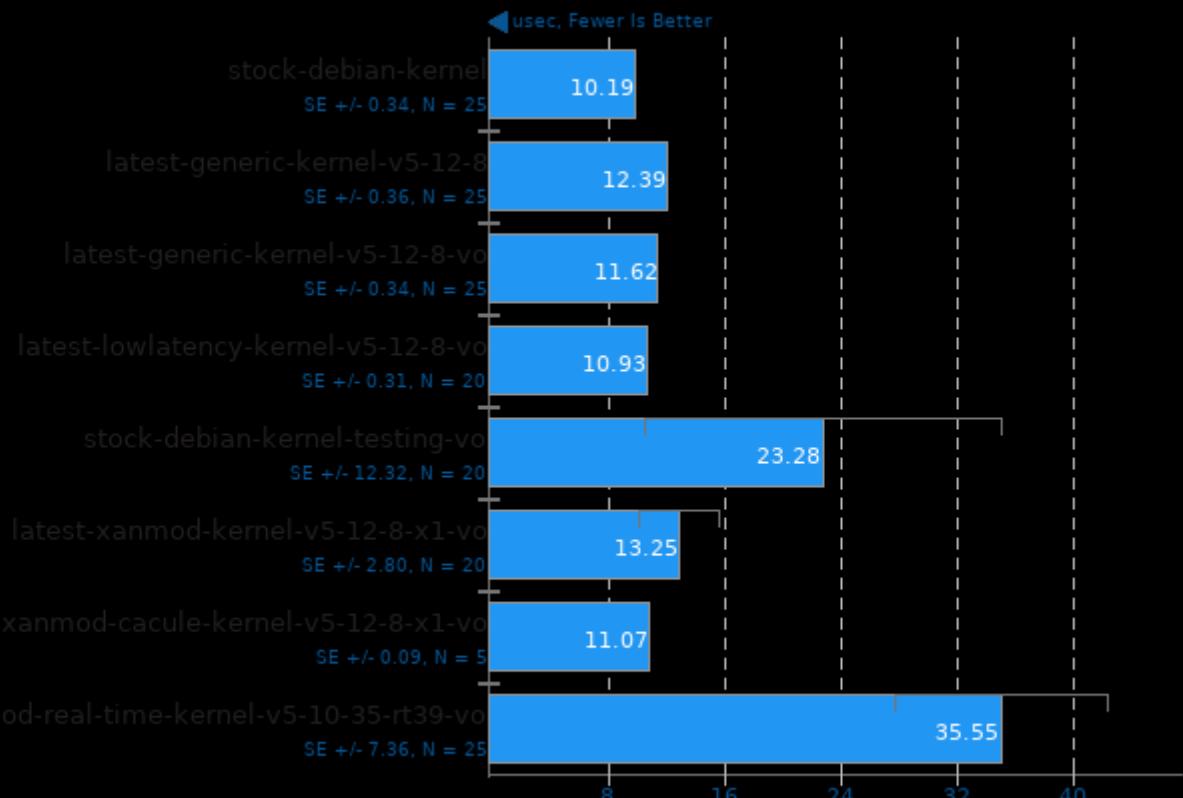
Test: Latency Ping Pong



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

Sockperf 3.4

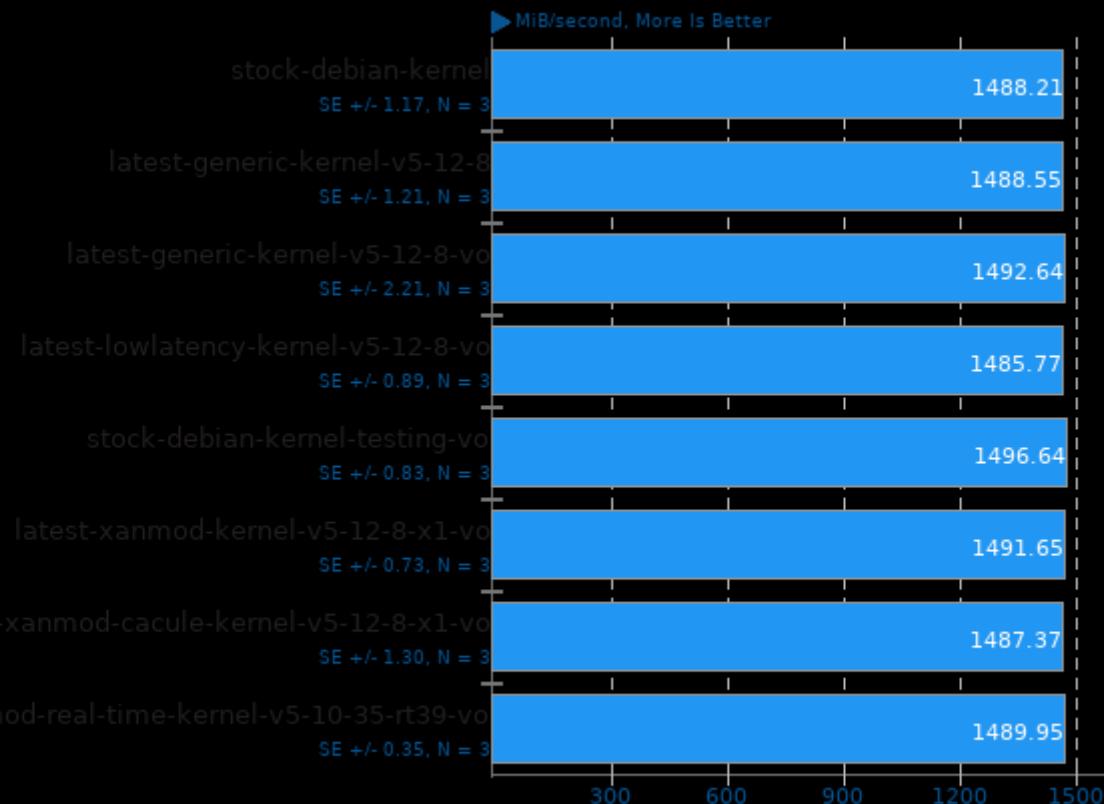
Test: Latency Under Load



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

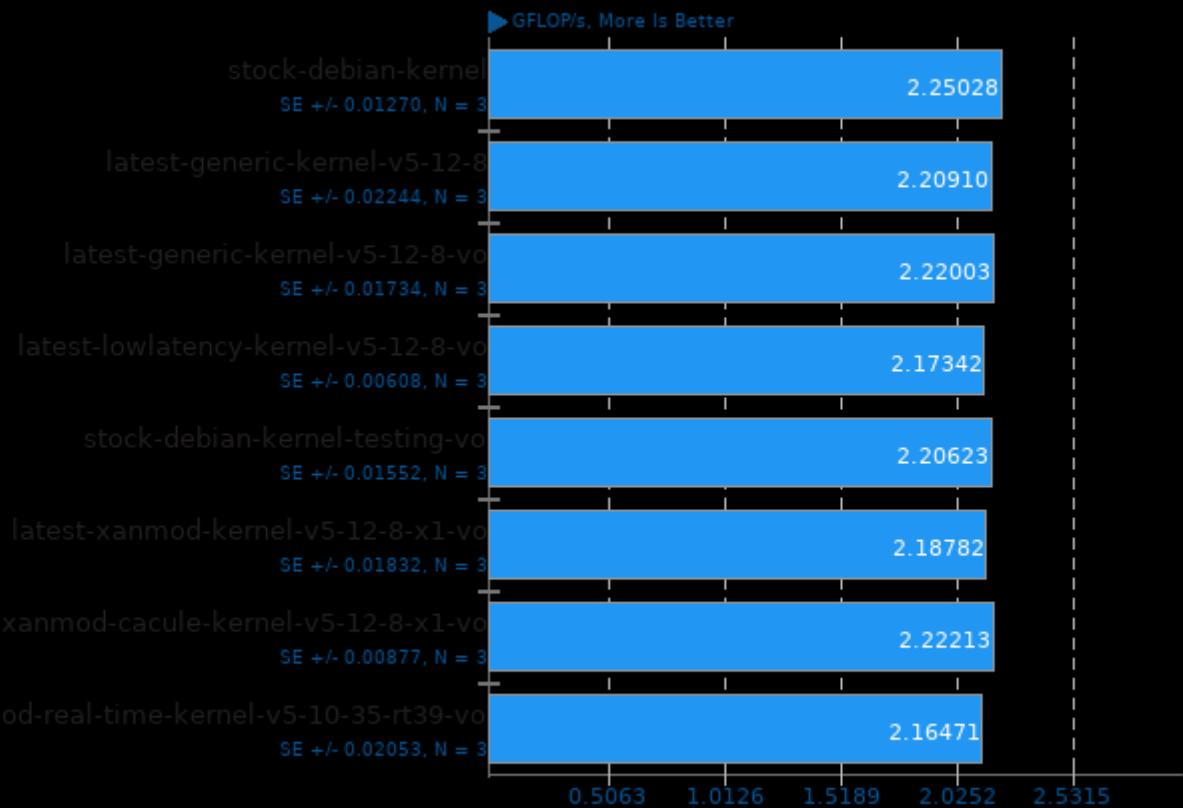
Crypto++ 8.2

Test: All Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

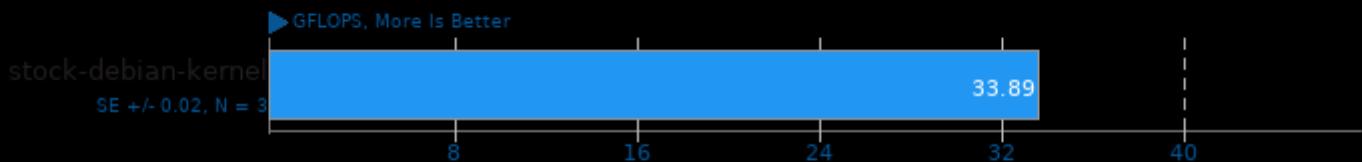
High Performance Conjugate Gradient 3.1



1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -pthread -lmpi_cxx -lmpi

HPC Challenge 1.5.0

Test / Class: G-HPL

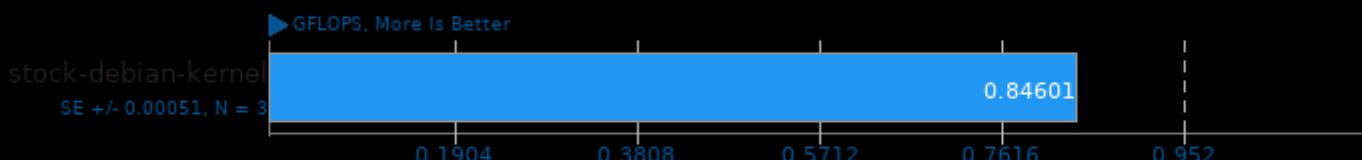


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 3.1.3

HPC Challenge 1.5.0

Test / Class: G-Ffte

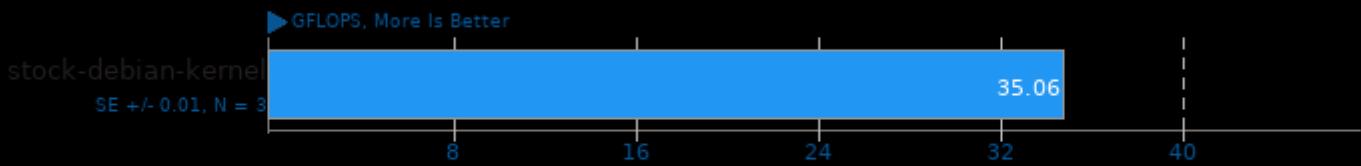


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 3.1.3

HPC Challenge 1.5.0

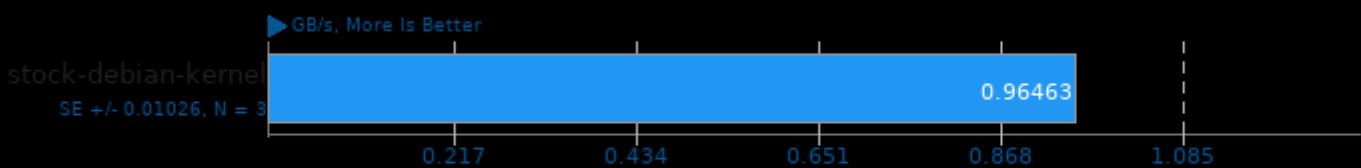
Test / Class: EP-DGEMM



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops
2. ATLAS + Open MPI 3.1.3

HPC Challenge 1.5.0

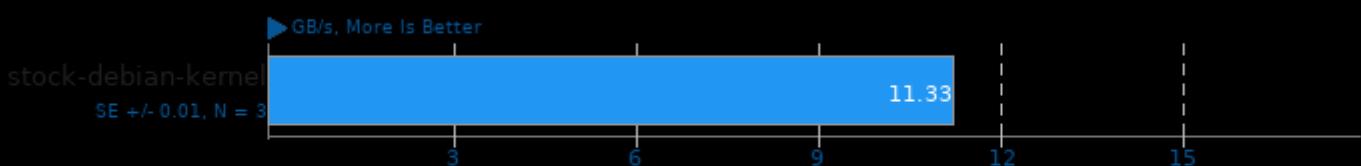
Test / Class: G-Ptrans



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops
2. ATLAS + Open MPI 3.1.3

HPC Challenge 1.5.0

Test / Class: EP-STREAM Triad



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops
2. ATLAS + Open MPI 3.1.3

HPC Challenge 1.5.0

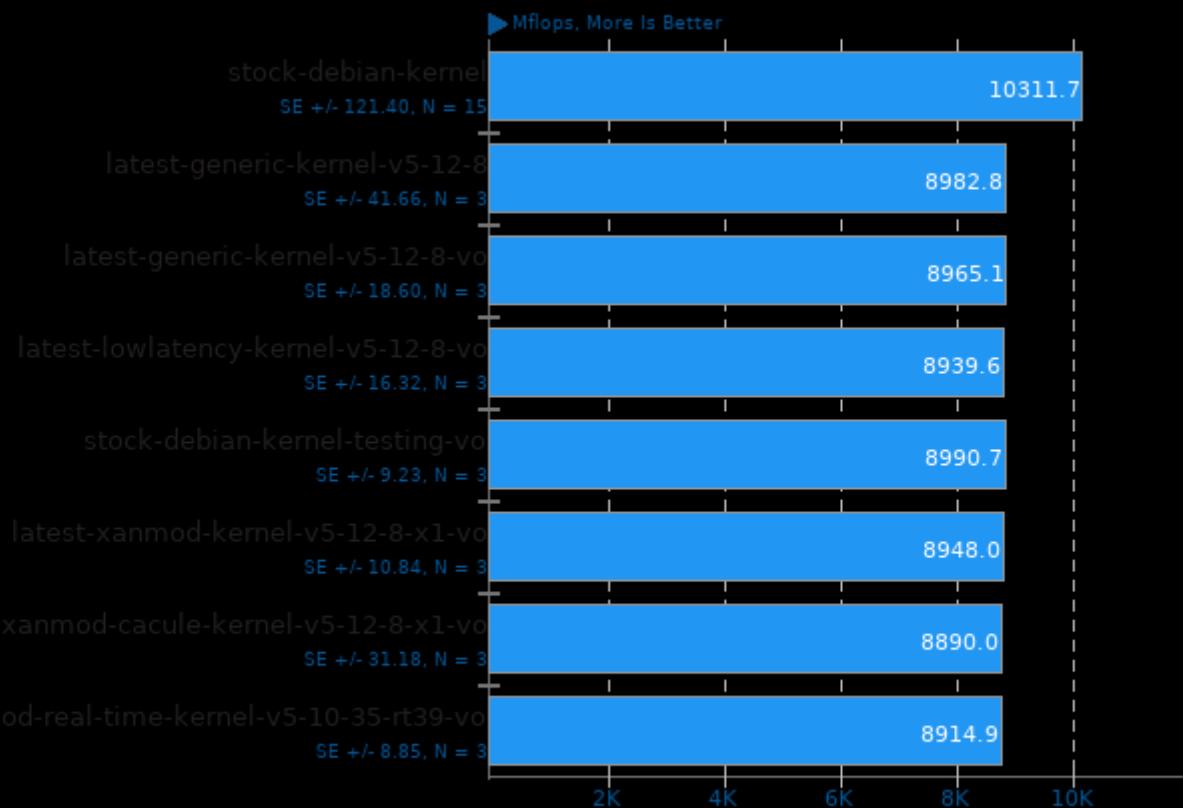
Test / Class: G-Random Access



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops
2. ATLAS + Open MPI 3.1.3

FFTW 3.3.6

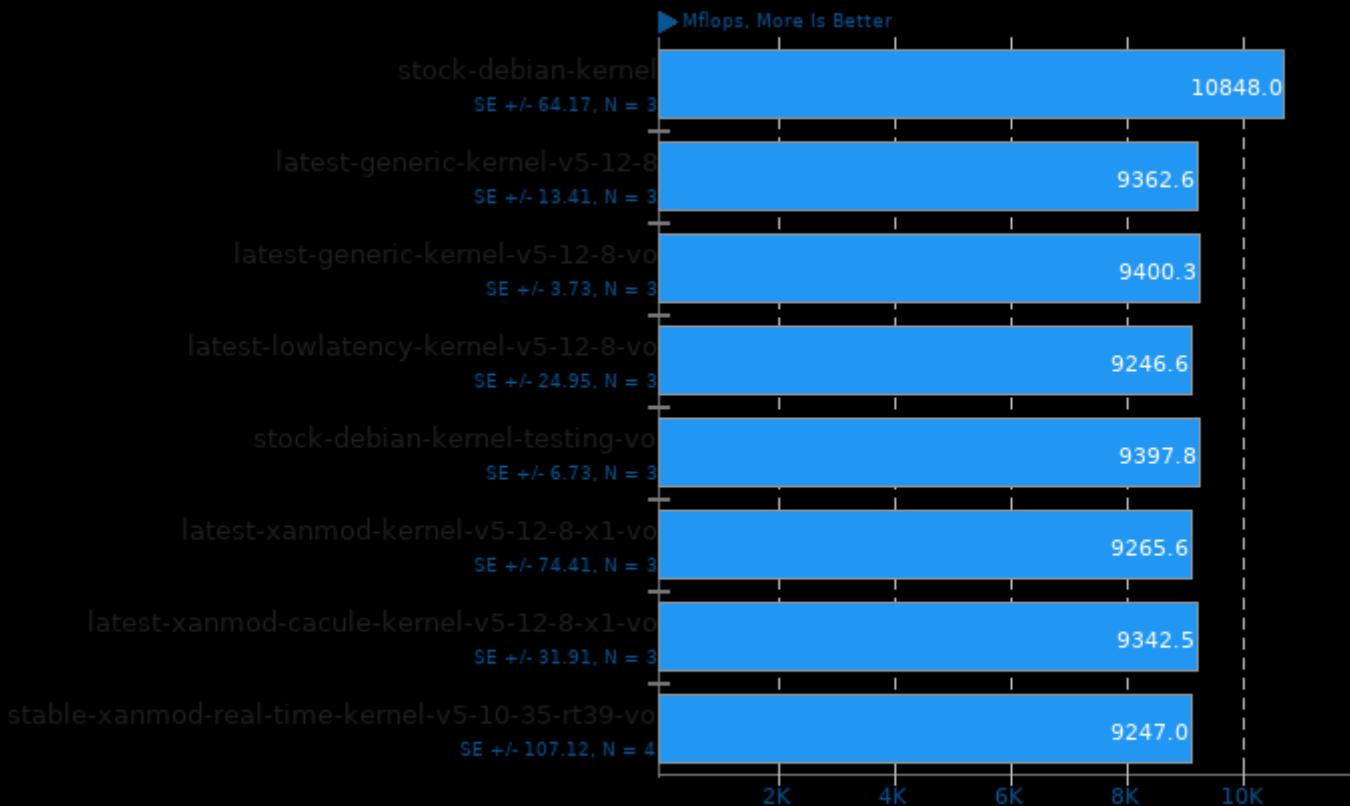
Build: Stock - Size: 1D FFT Size 32



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -fipa-sra

FFTW 3.3.6

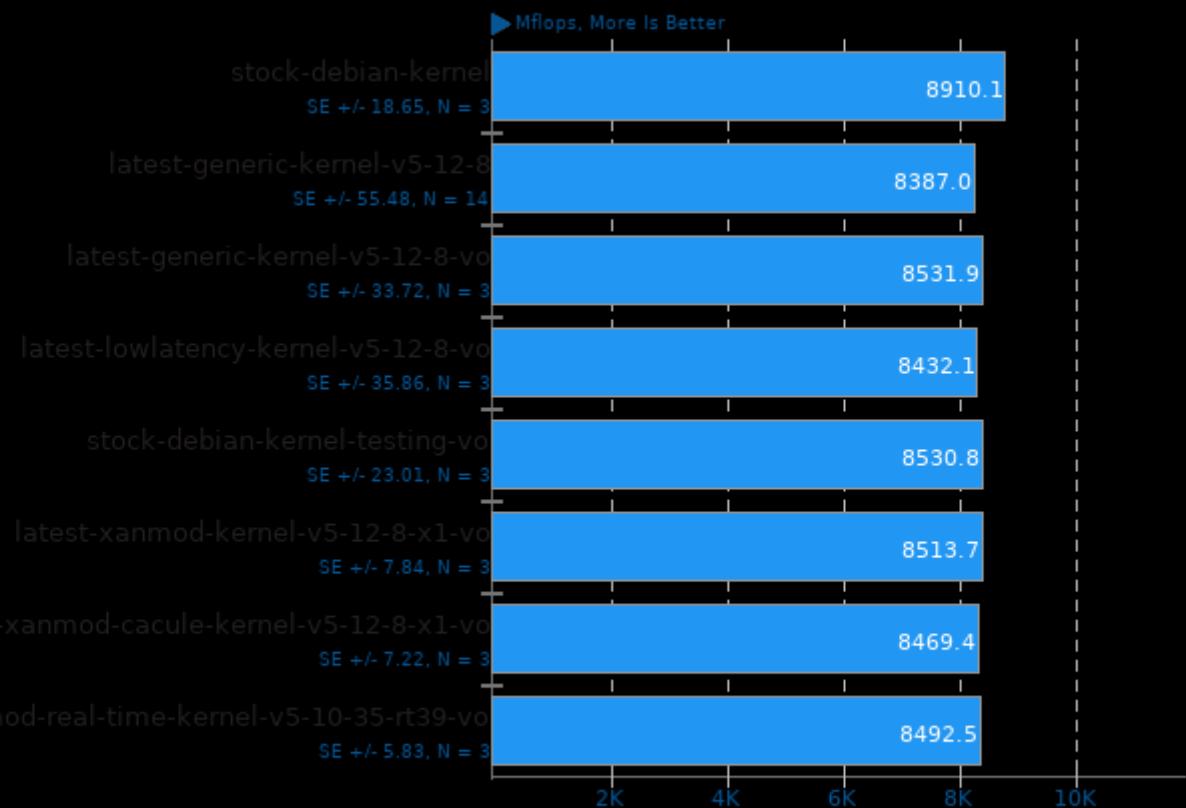
Build: Stock - Size: 2D FFT Size 32



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -fno-

FFTW 3.3.6

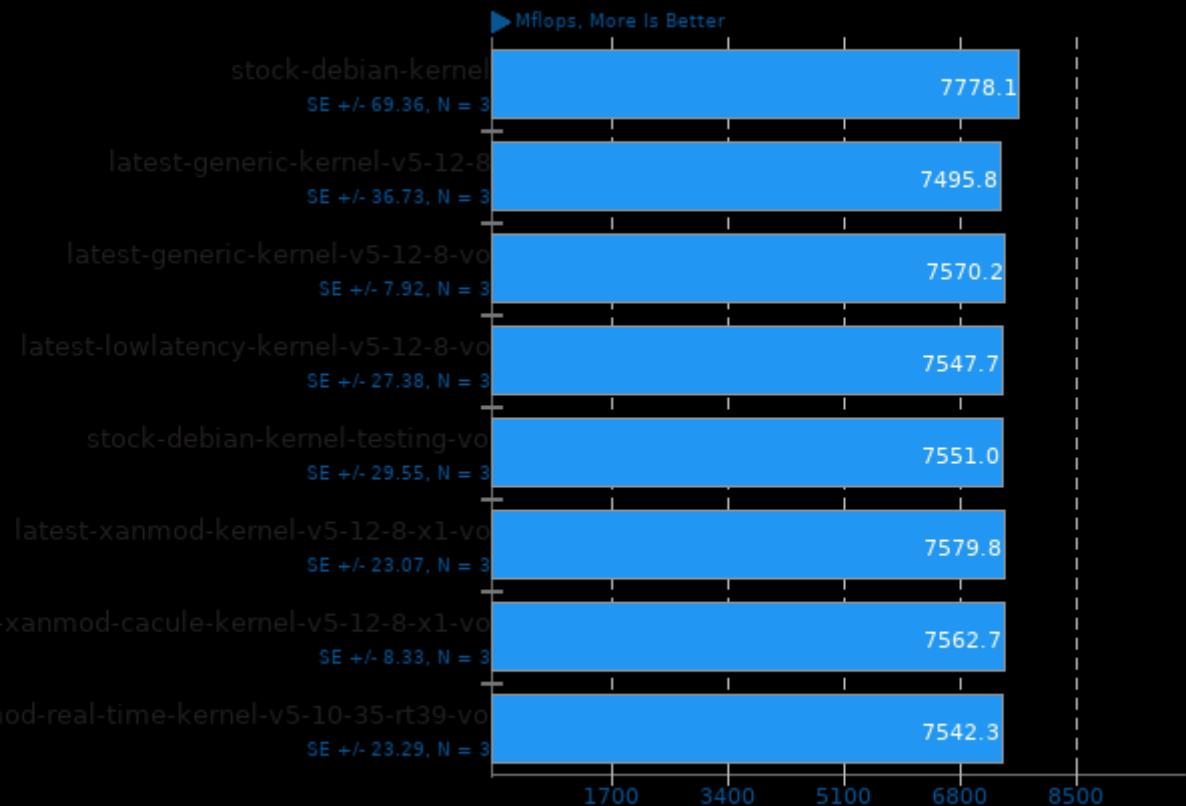
Build: Stock - Size: 1D FFT Size 512



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -fno-

FFTW 3.3.6

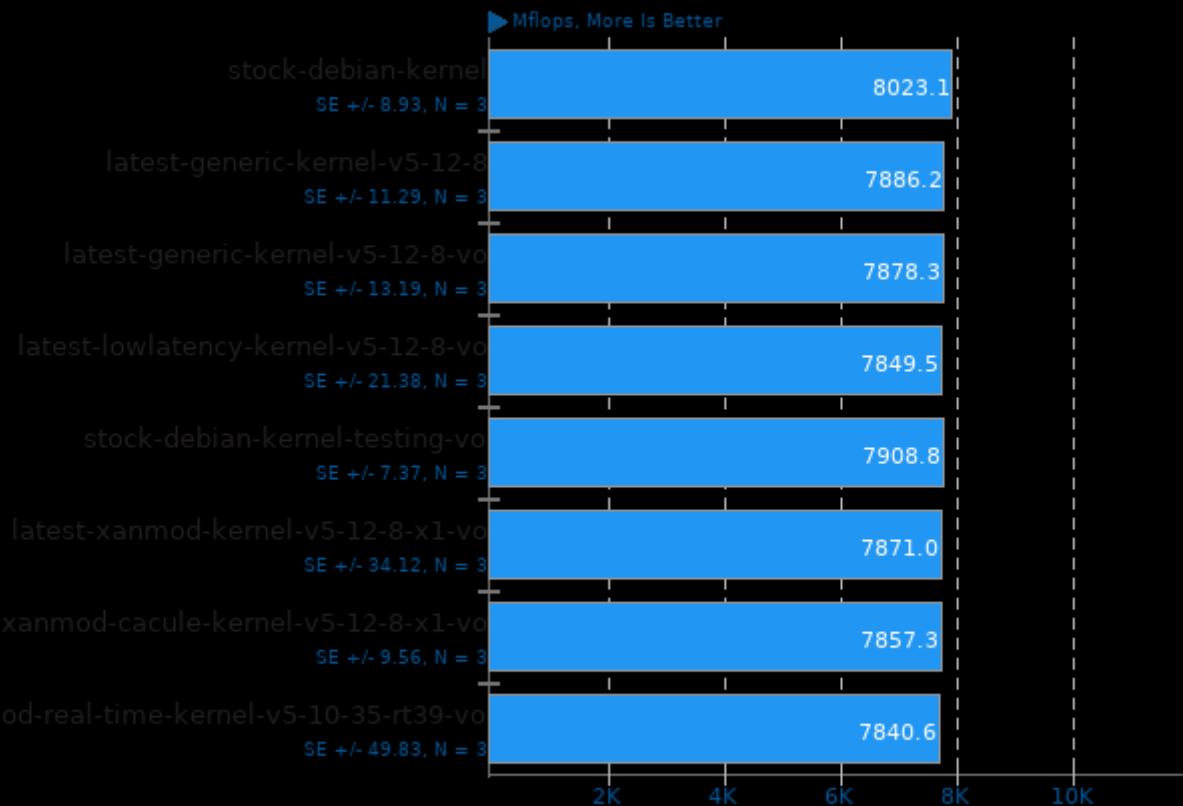
Build: Stock - Size: 2D FFT Size 512



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

FFTW 3.3.6

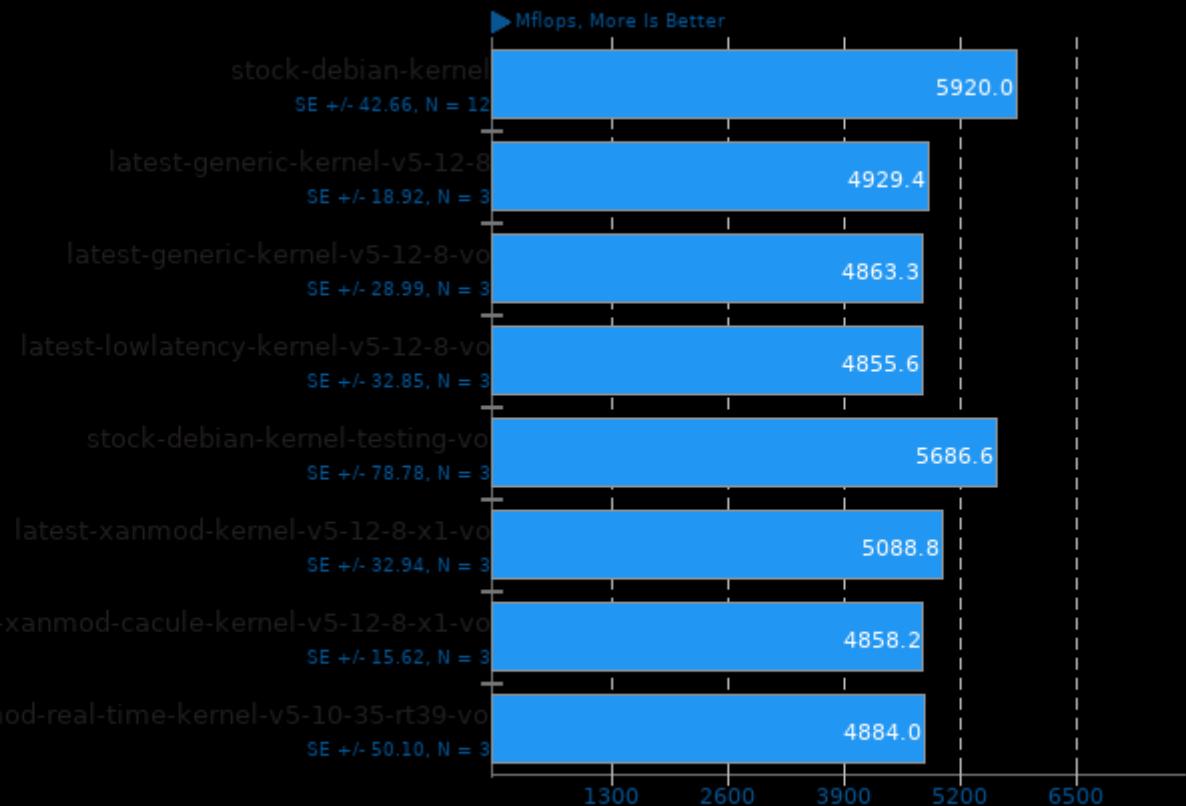
Build: Stock - Size: 1D FFT Size 4096



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

FFTW 3.3.6

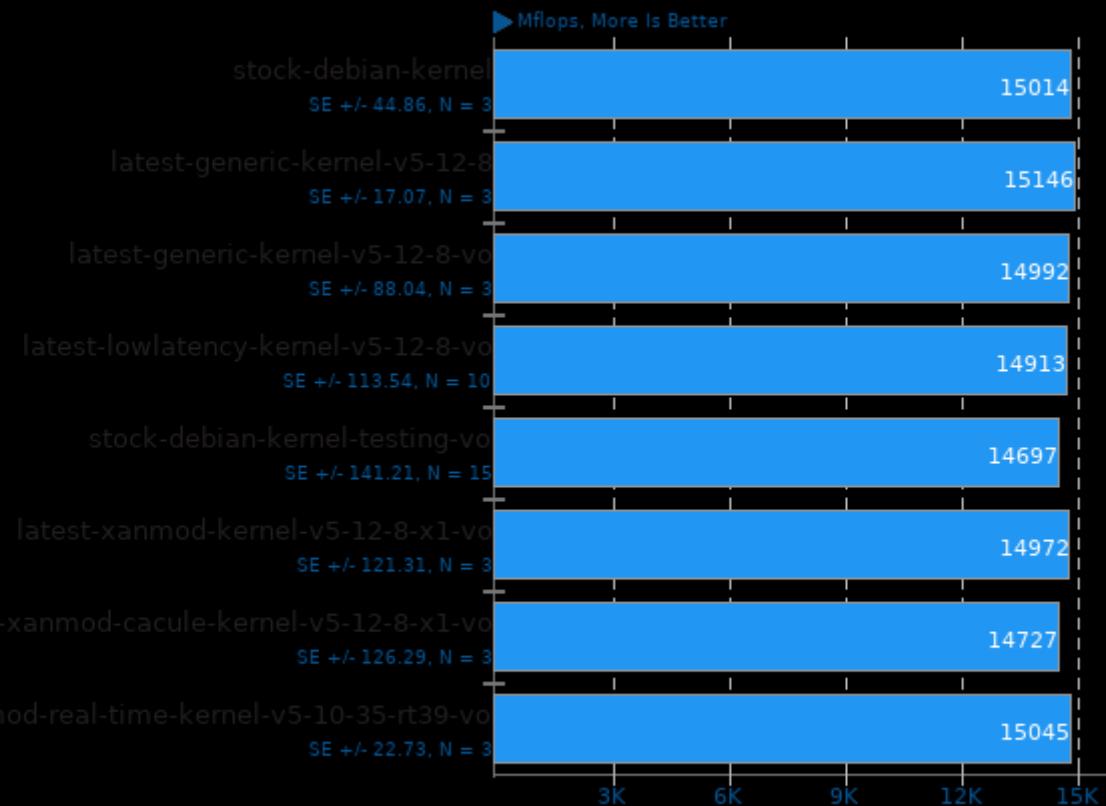
Build: Stock - Size: 2D FFT Size 4096



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

FFTW 3.3.6

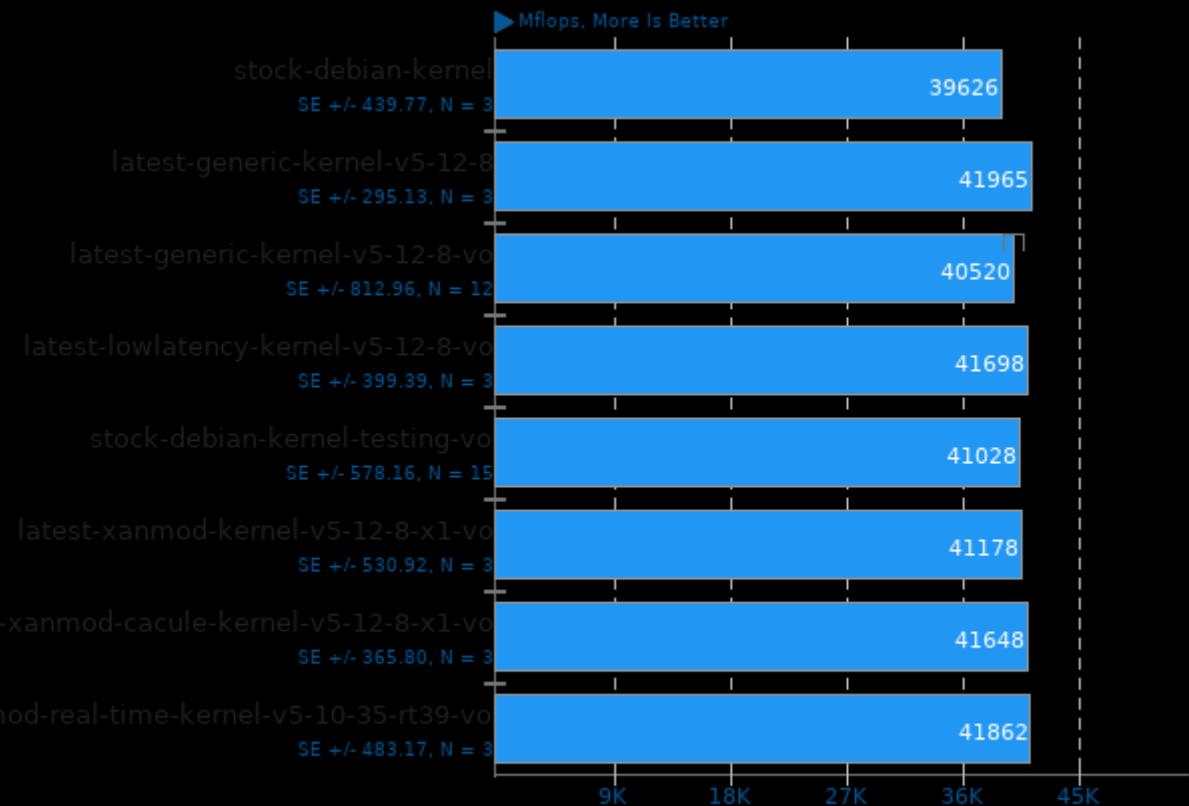
Build: Float + SSE - Size: 1D FFT Size 32



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

FFTW 3.3.6

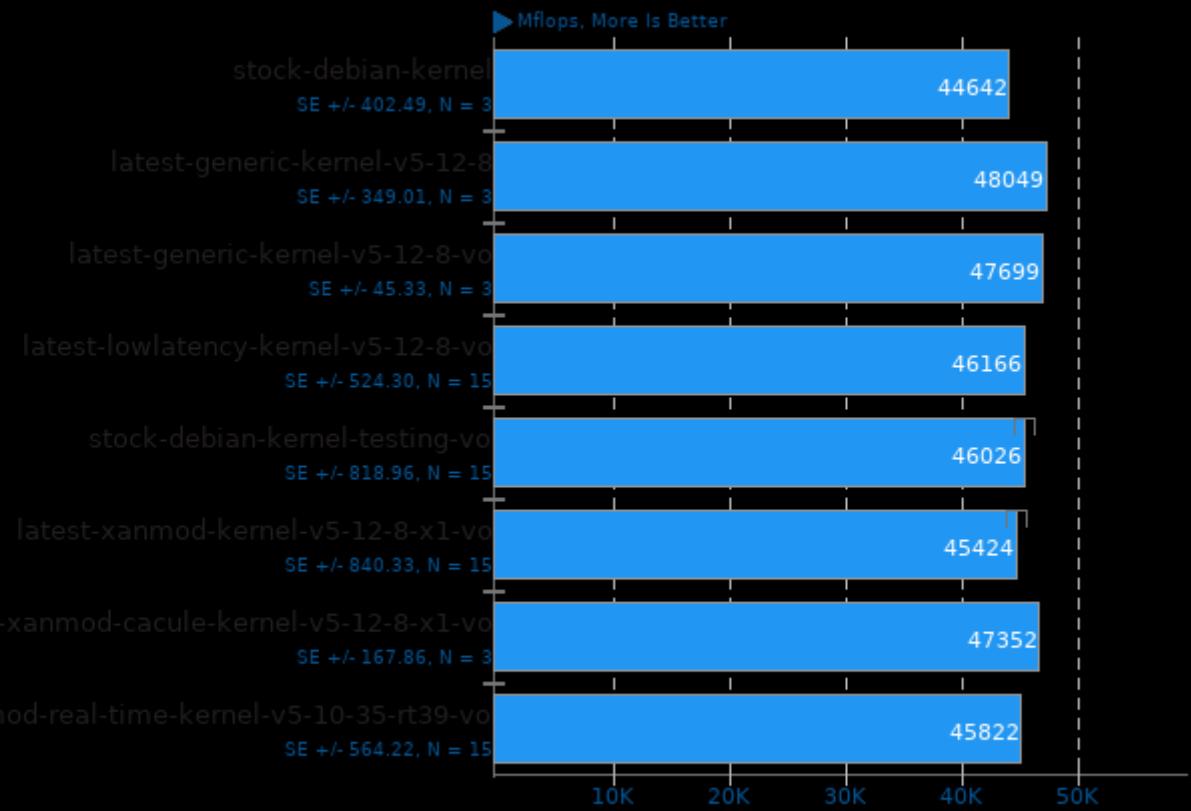
Build: Float + SSE - Size: 2D FFT Size 32



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -fno-

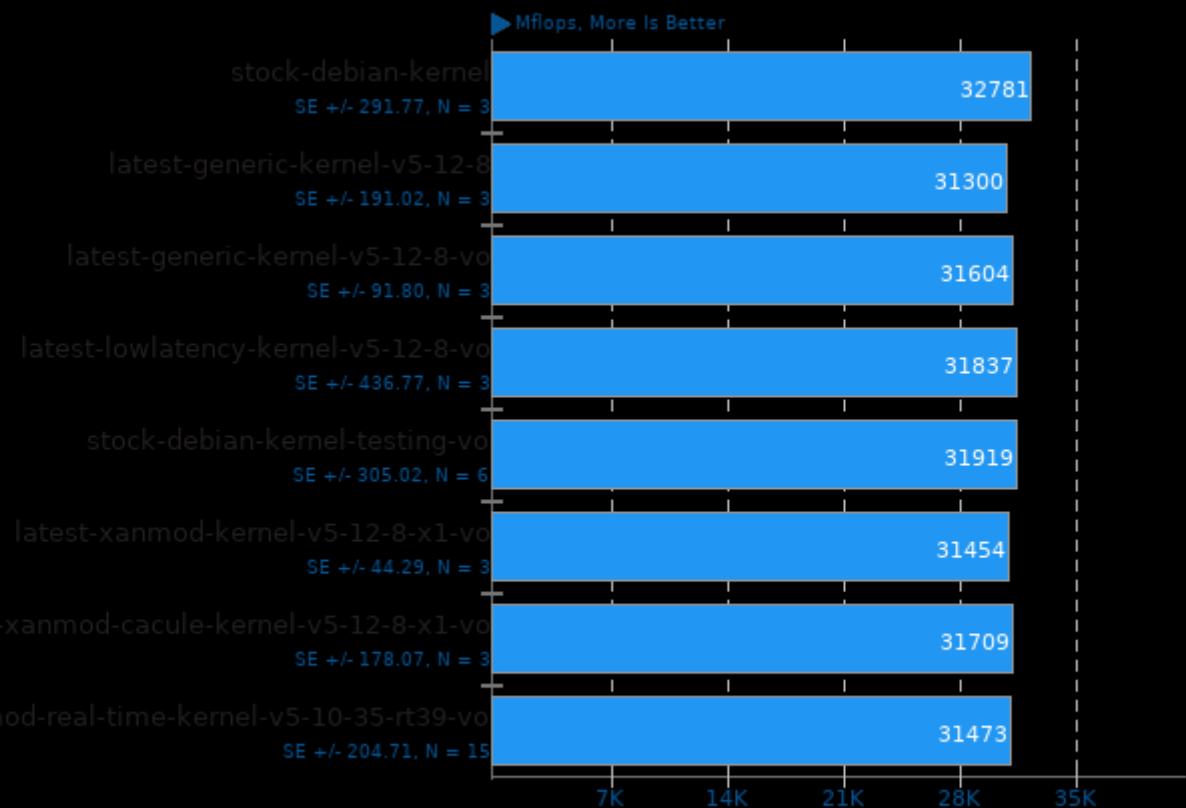
FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 512



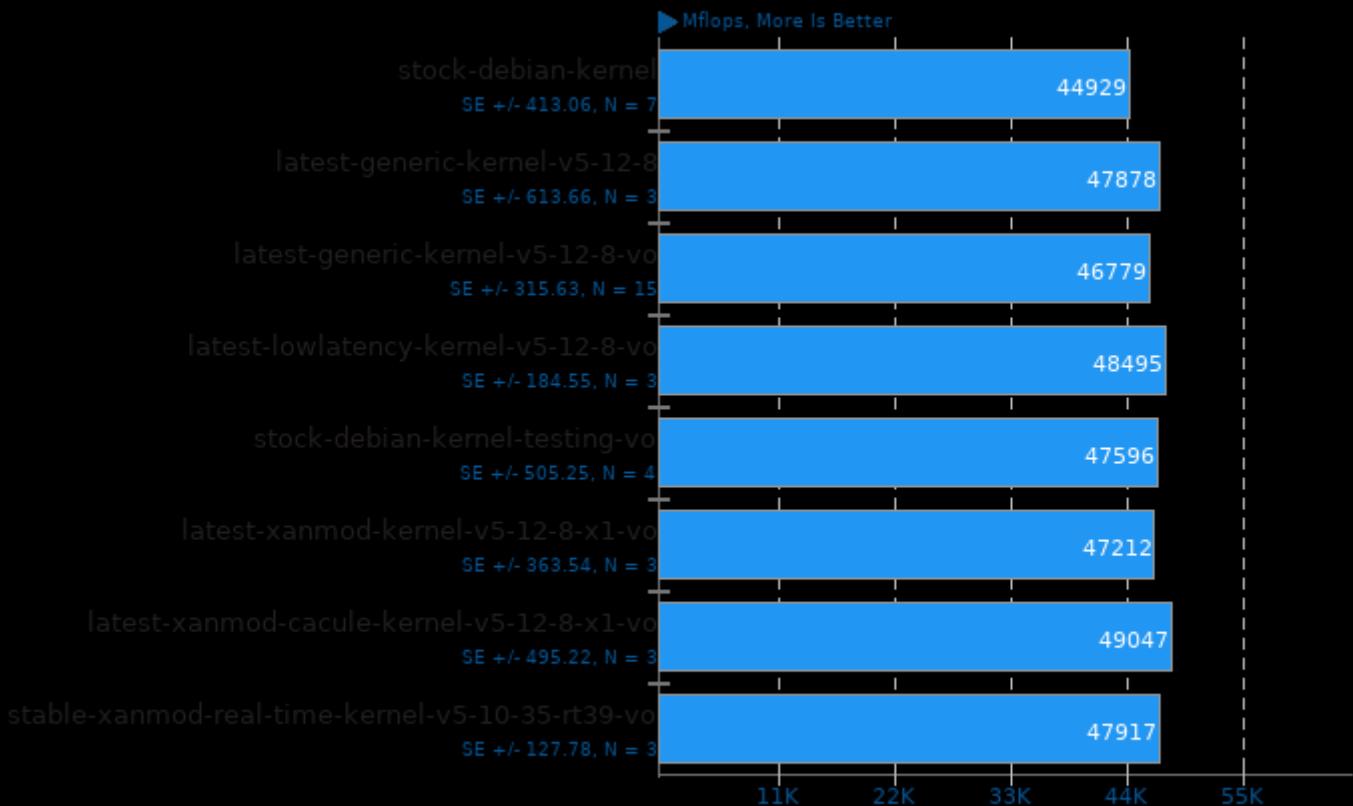
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -fno-

FFTW 3.3.6



FFTW 3.3.6

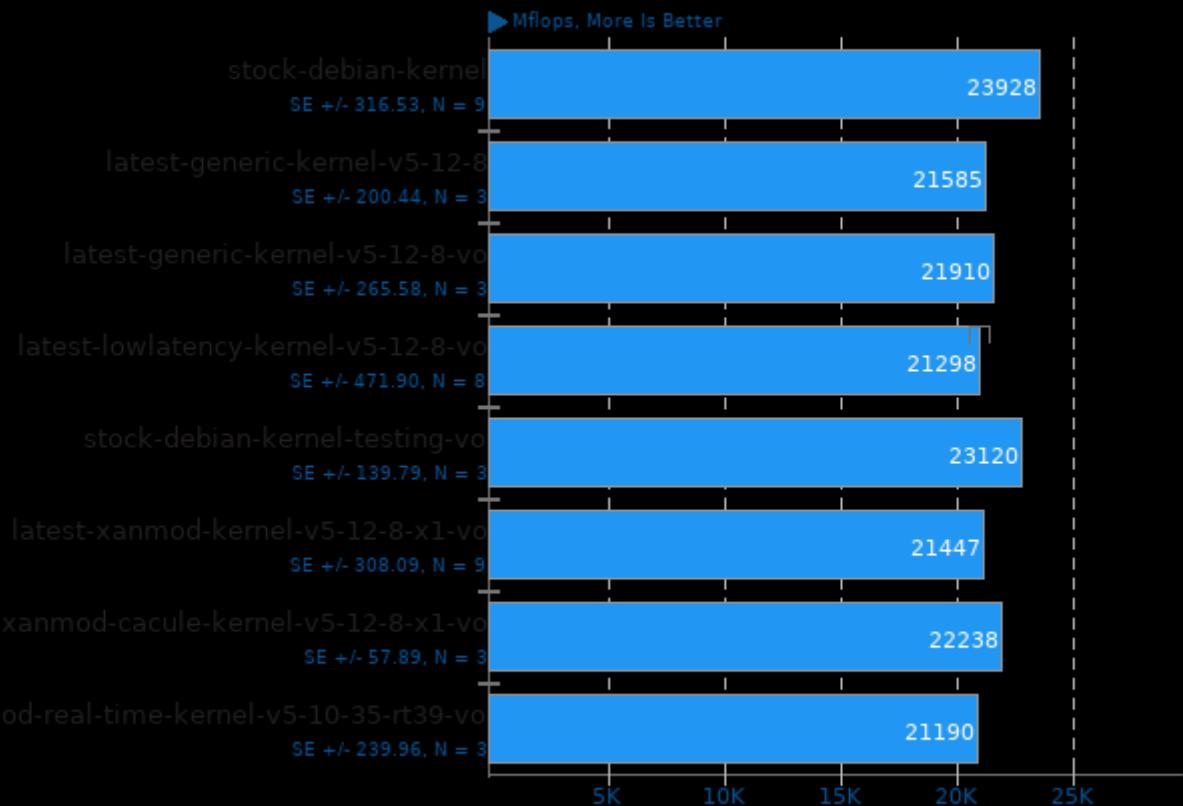
Build: Float + SSE - Size: 1D FFT Size 4096



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

FFTW 3.3.6

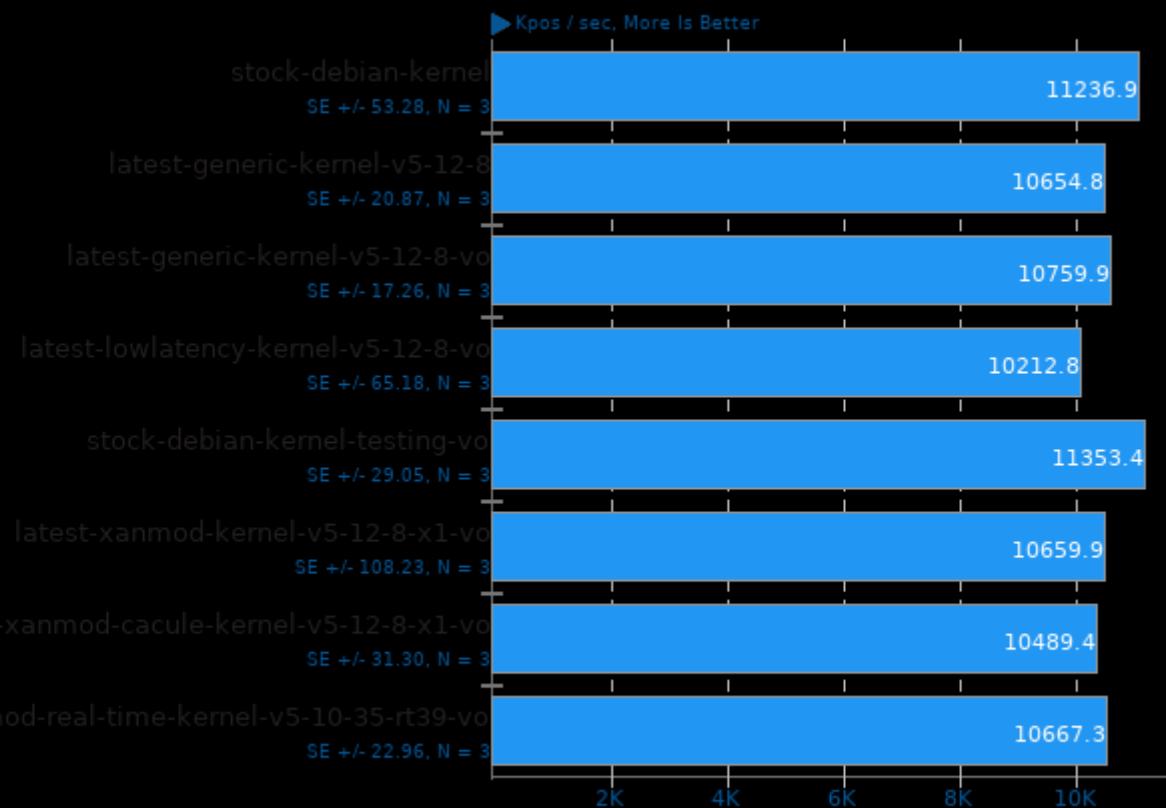
Build: Float + SSE - Size: 2D FFT Size 4096



1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -fno-

Fhourstones 3.1

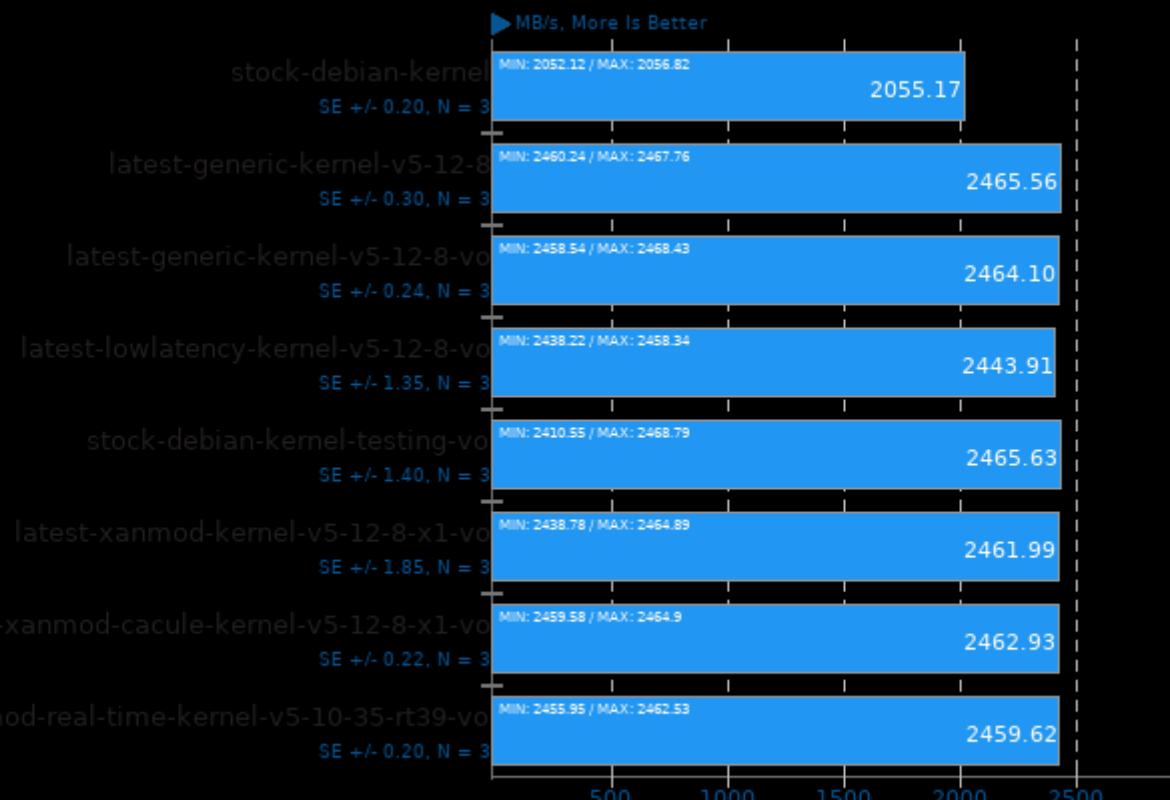
Complex Connect-4 Solving



1. (CC) gcc options: -O3

CacheBench

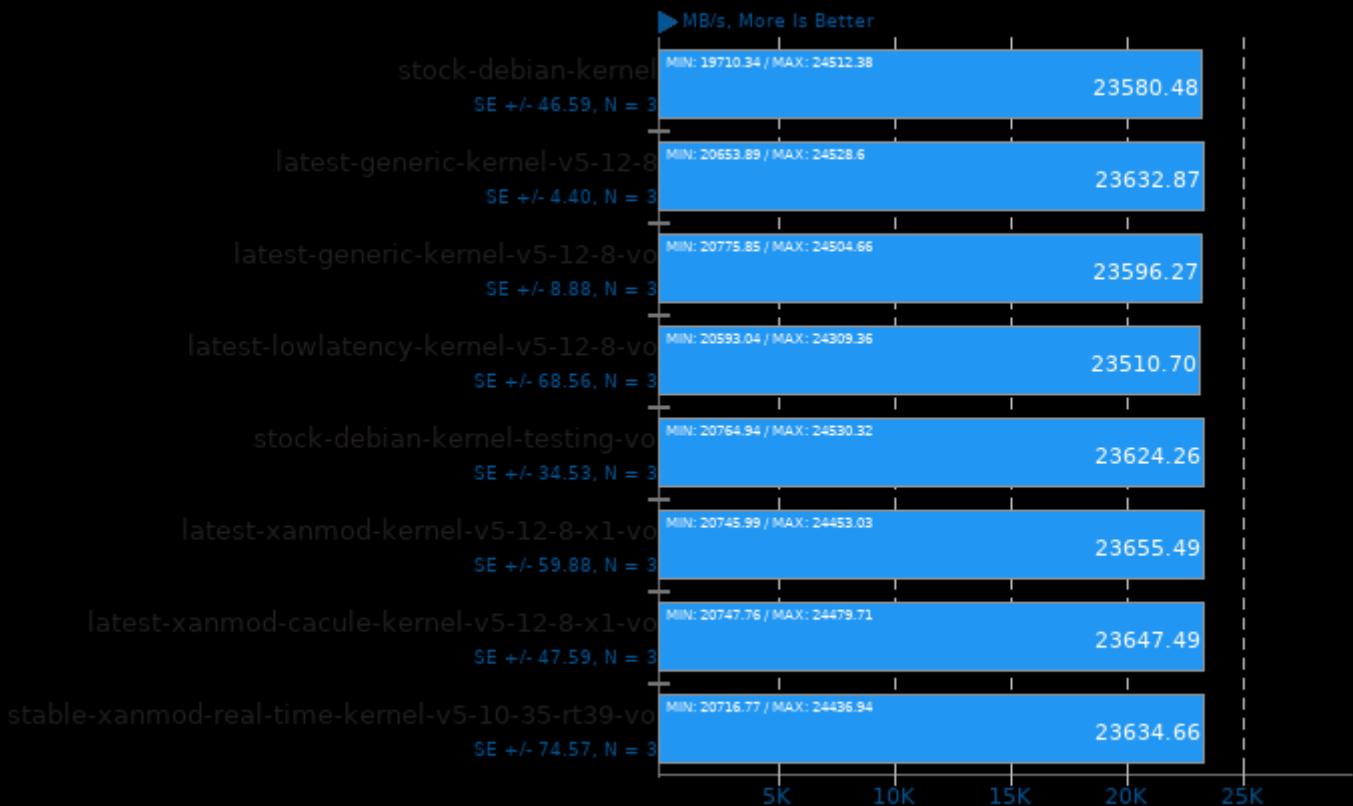
Test: Read



1. (CC) gcc options: -lrt

CacheBench

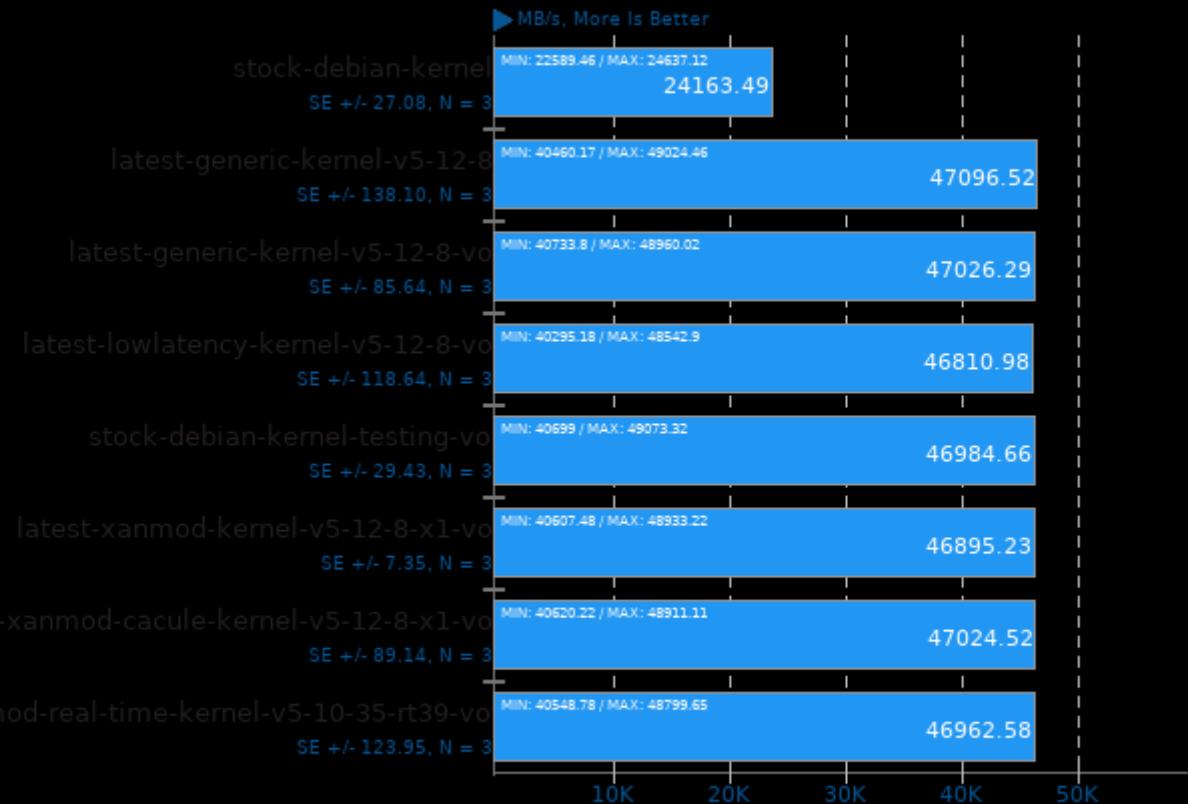
Test: Write



1. (CC) gcc options: -lrt

CacheBench

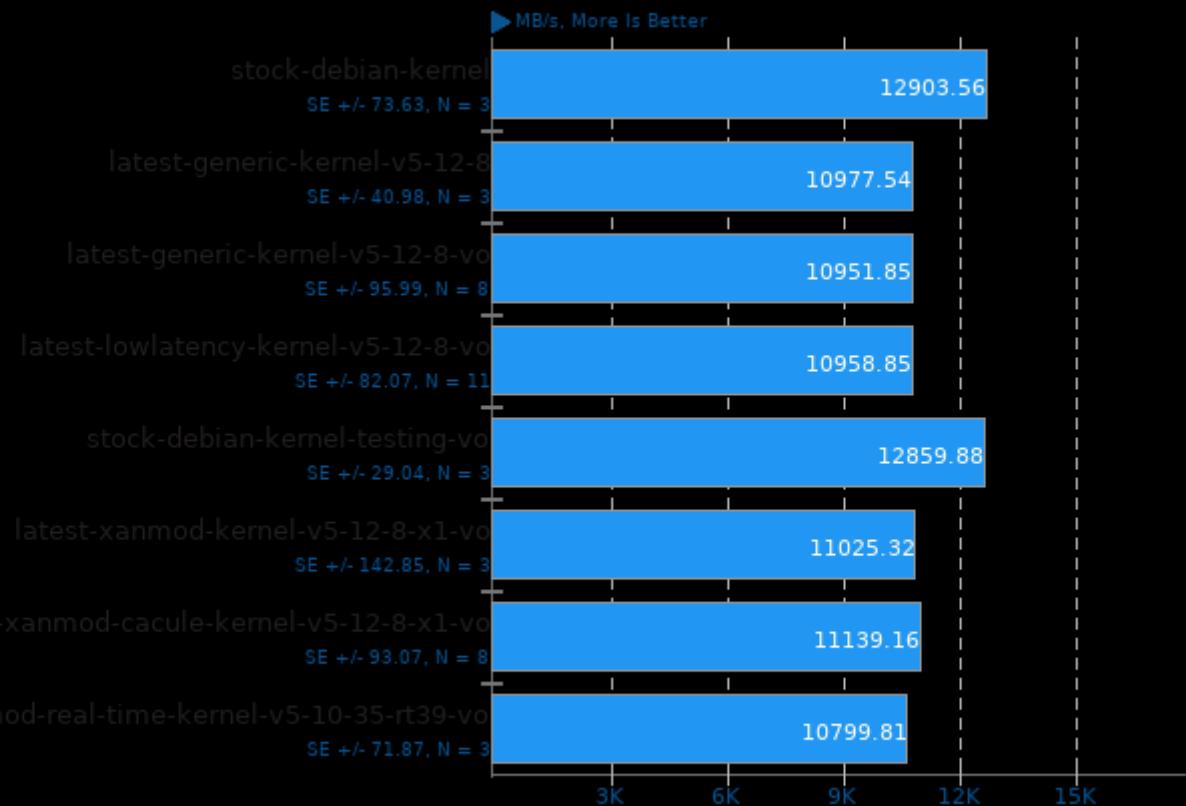
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

LZ4 Compression 1.9.3

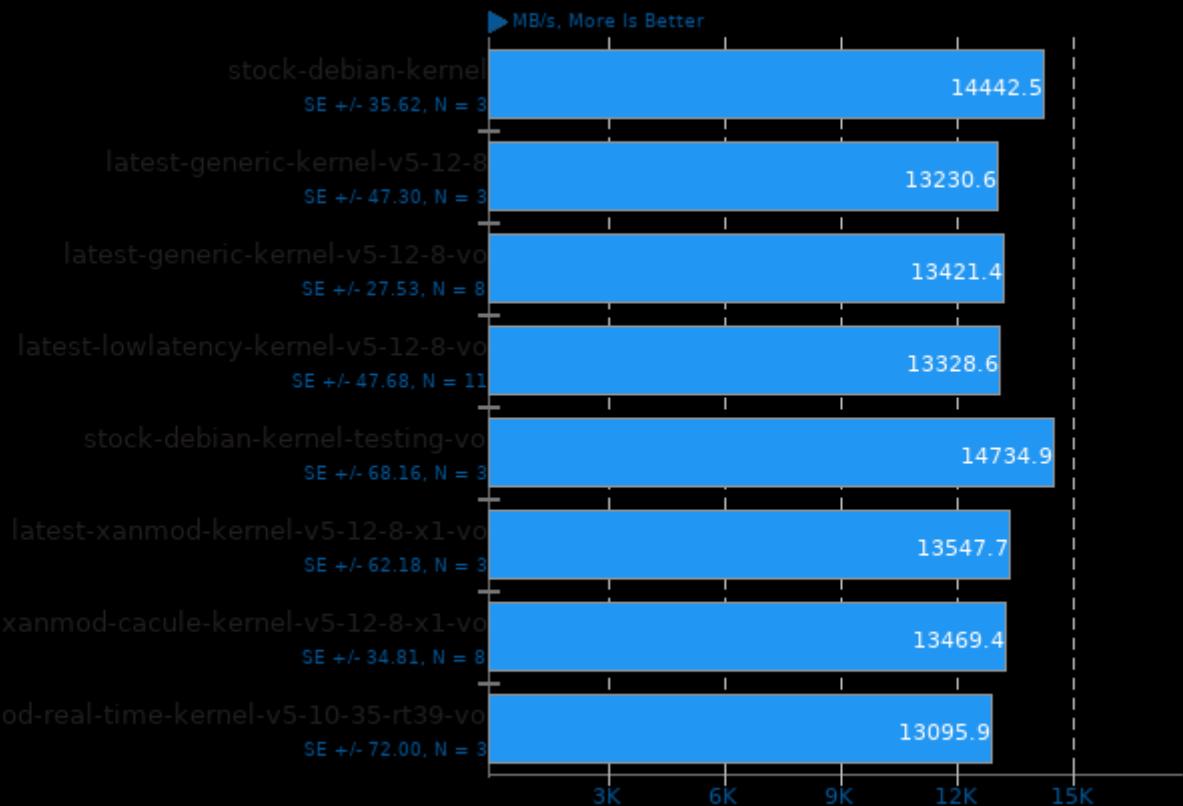
Compression Level: 1 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

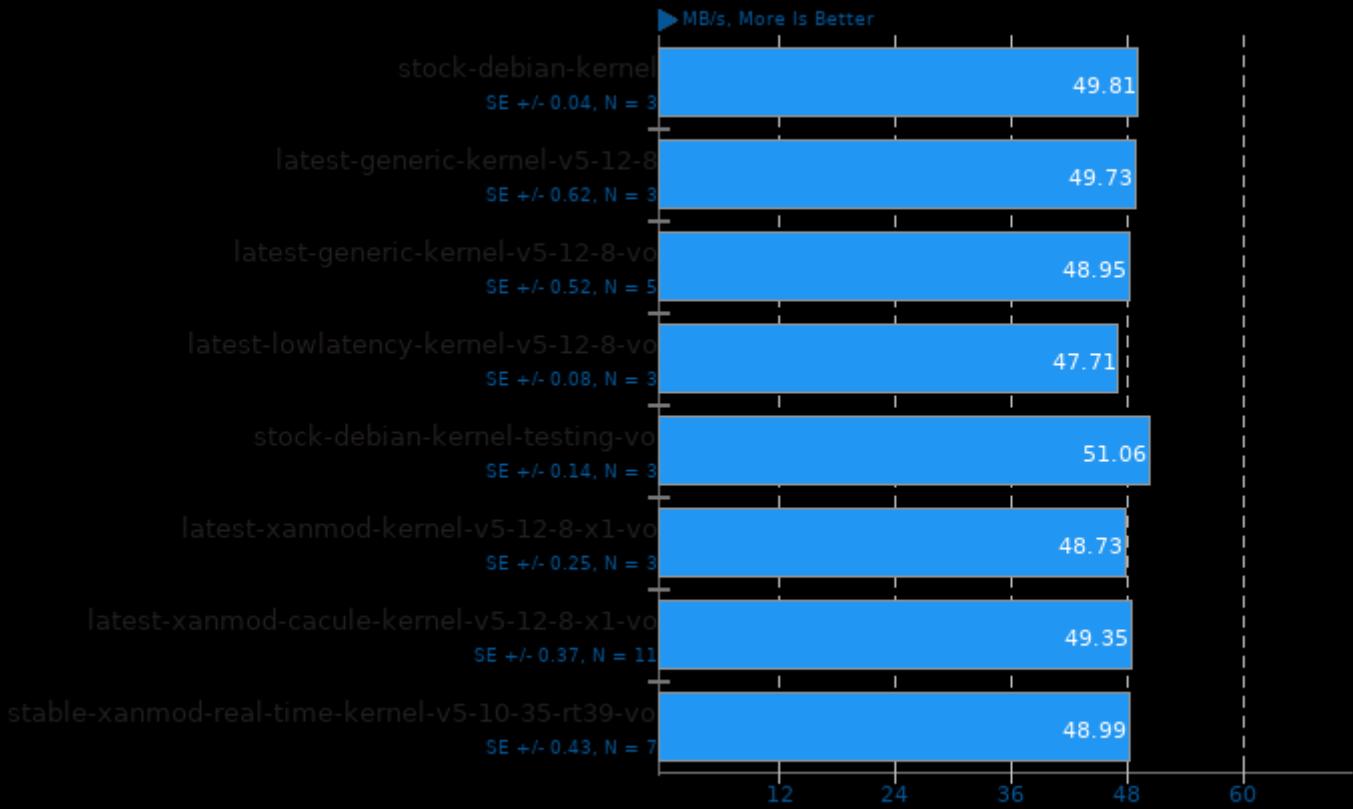
Compression Level: 1 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

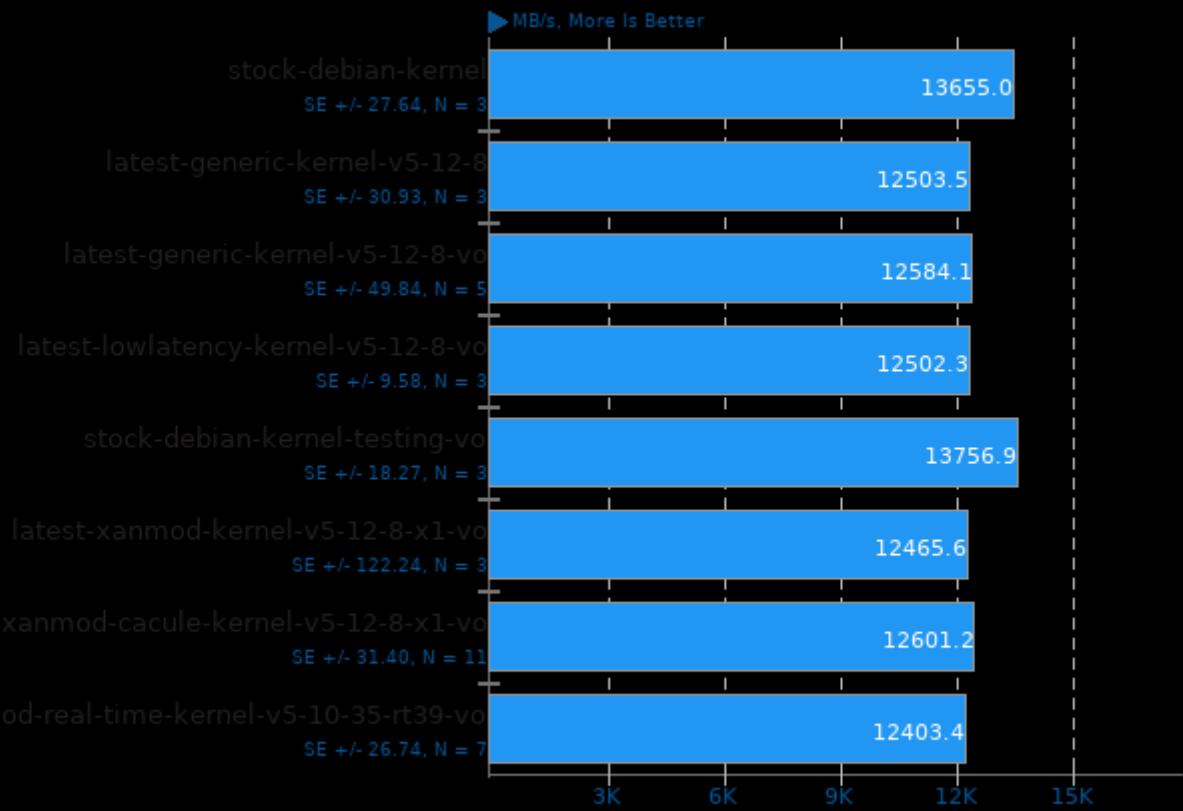
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

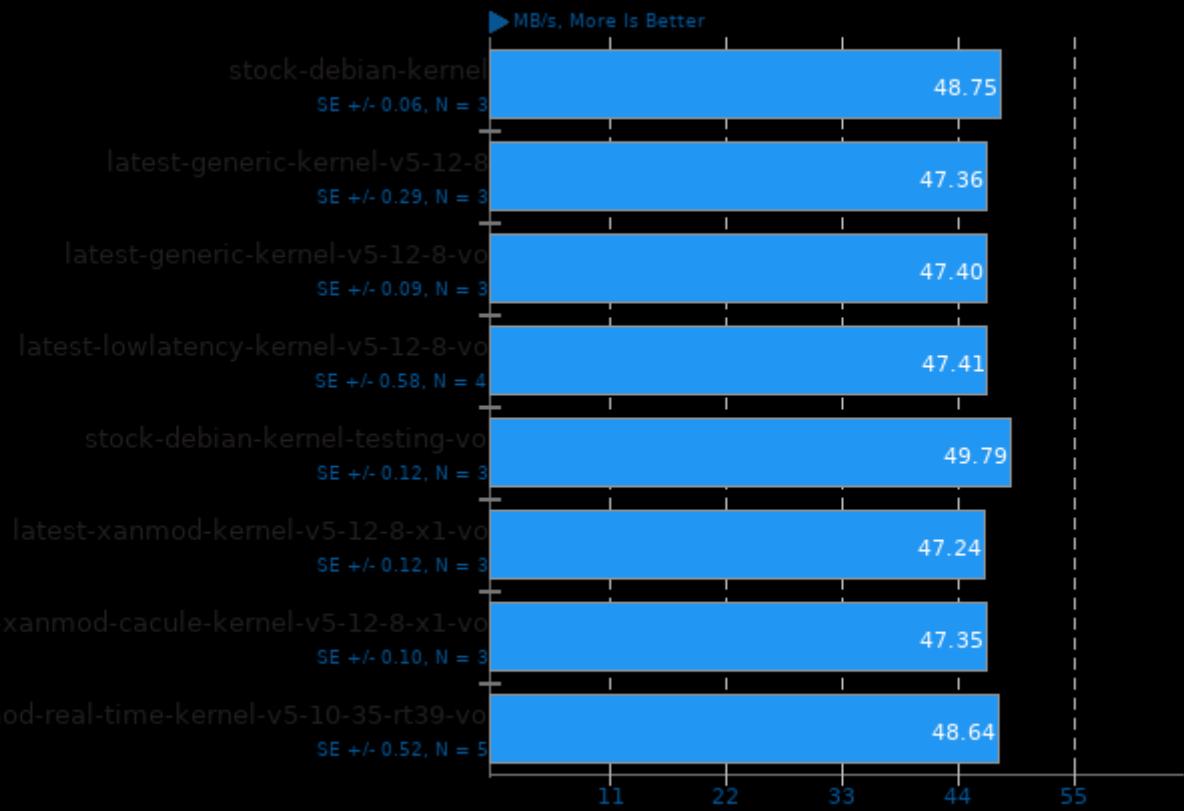
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

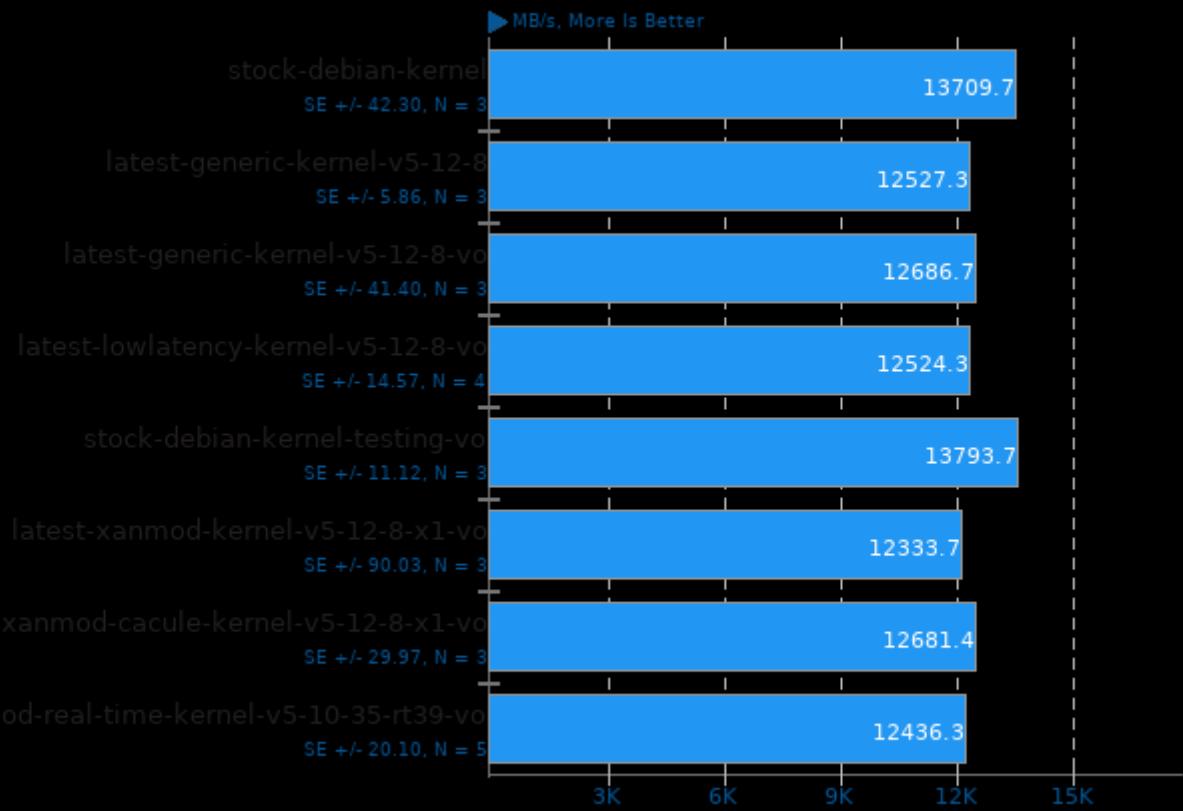
Compression Level: 9 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

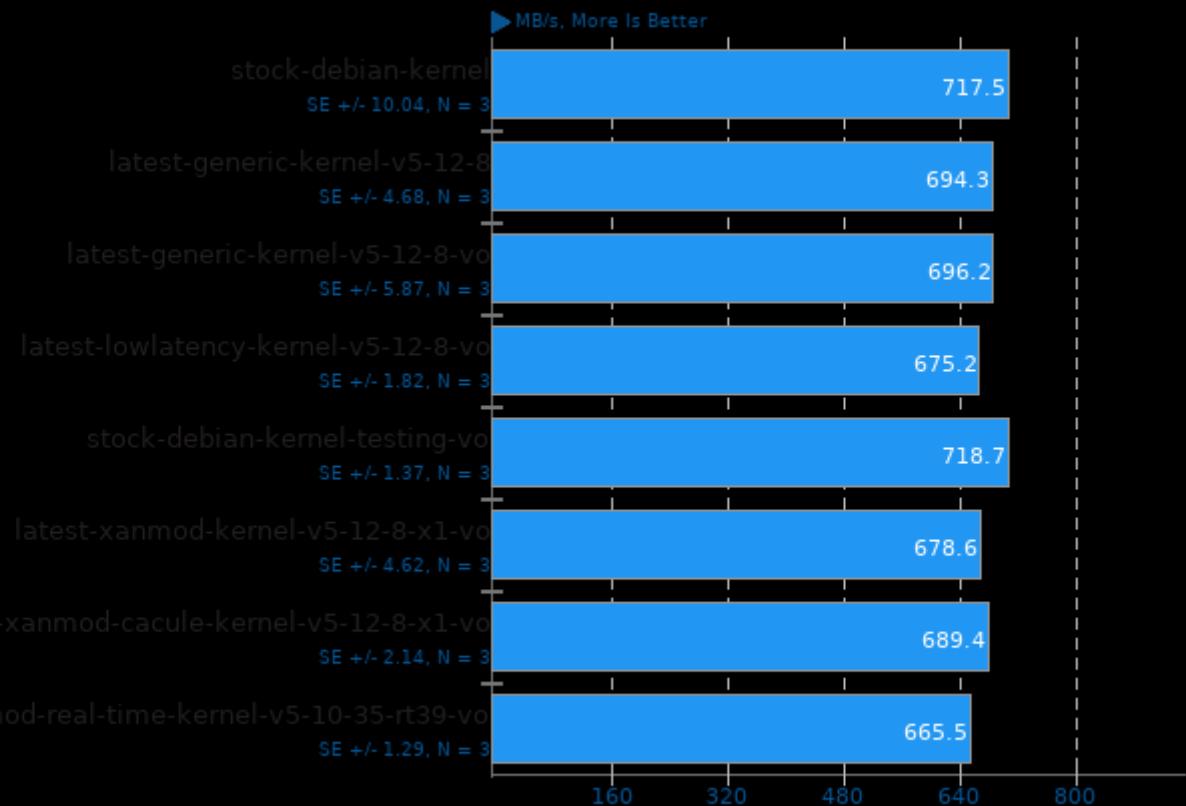
Compression Level: 9 - Decompression Speed



1. (CC) gcc options: -O3

Zstd Compression 1.5.0

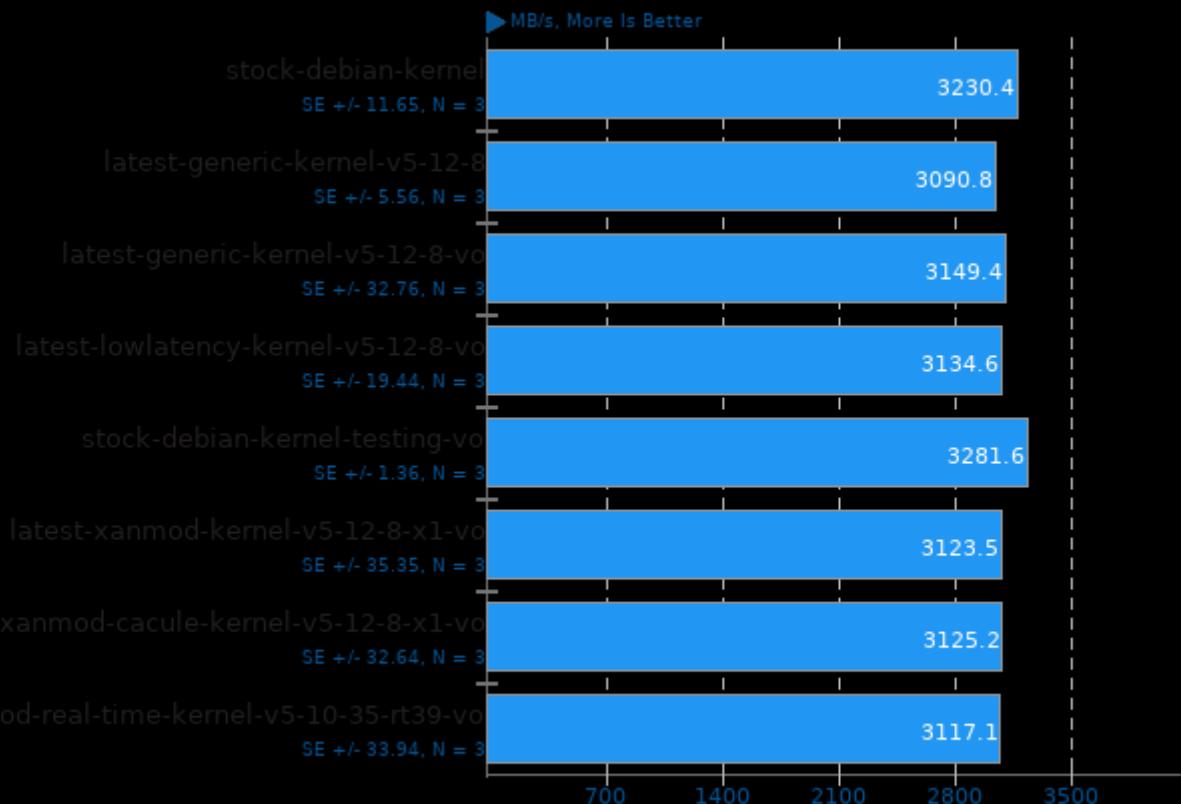
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

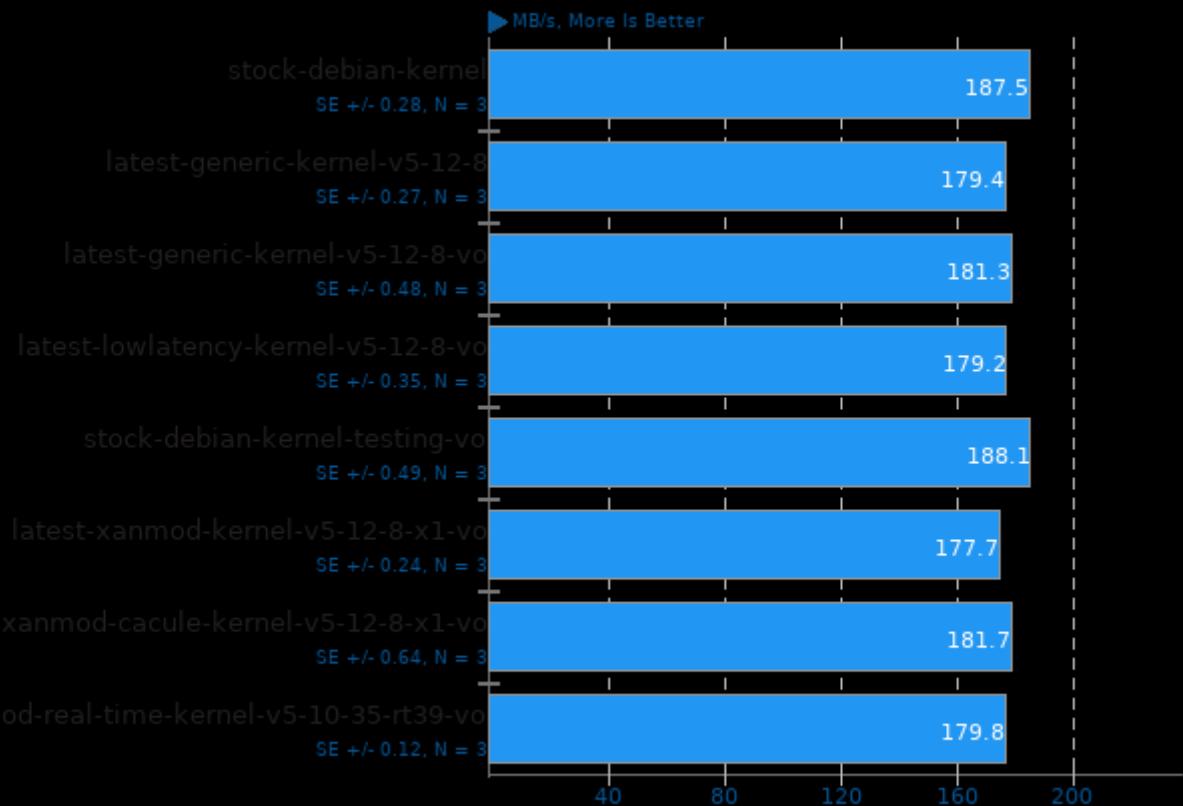
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

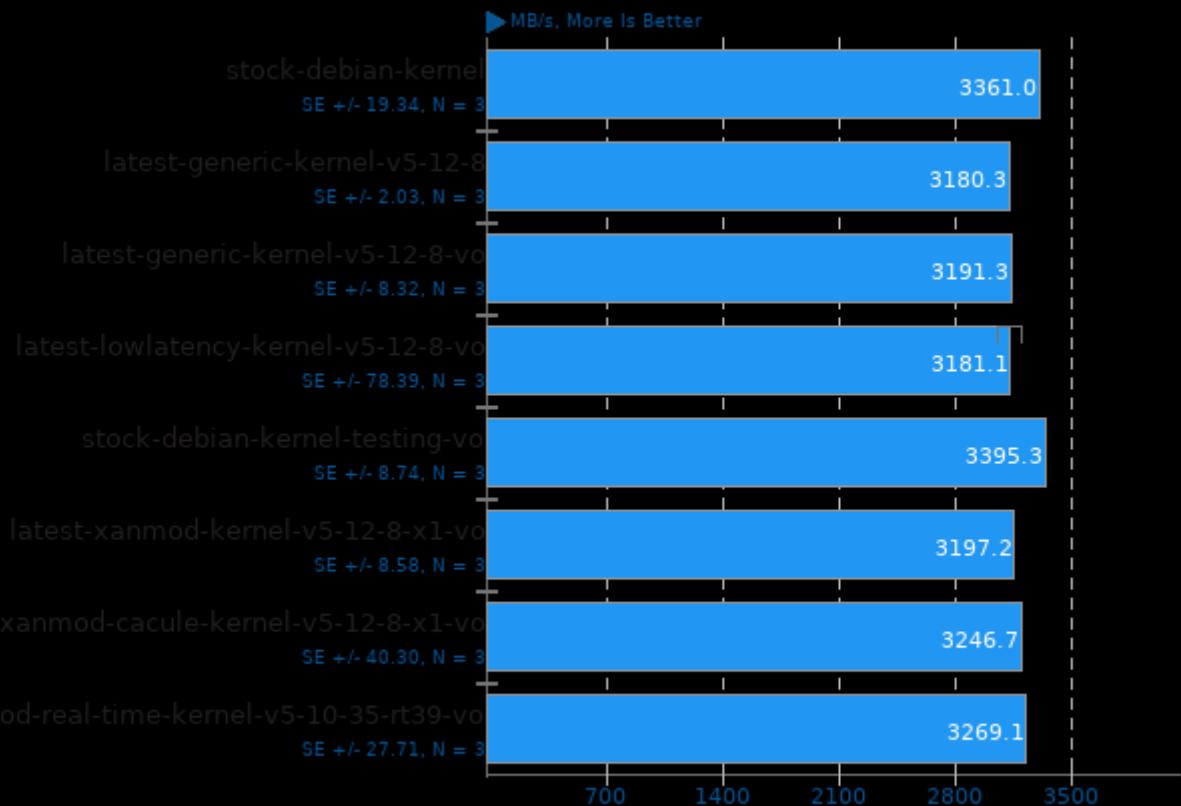
Compression Level: 8 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

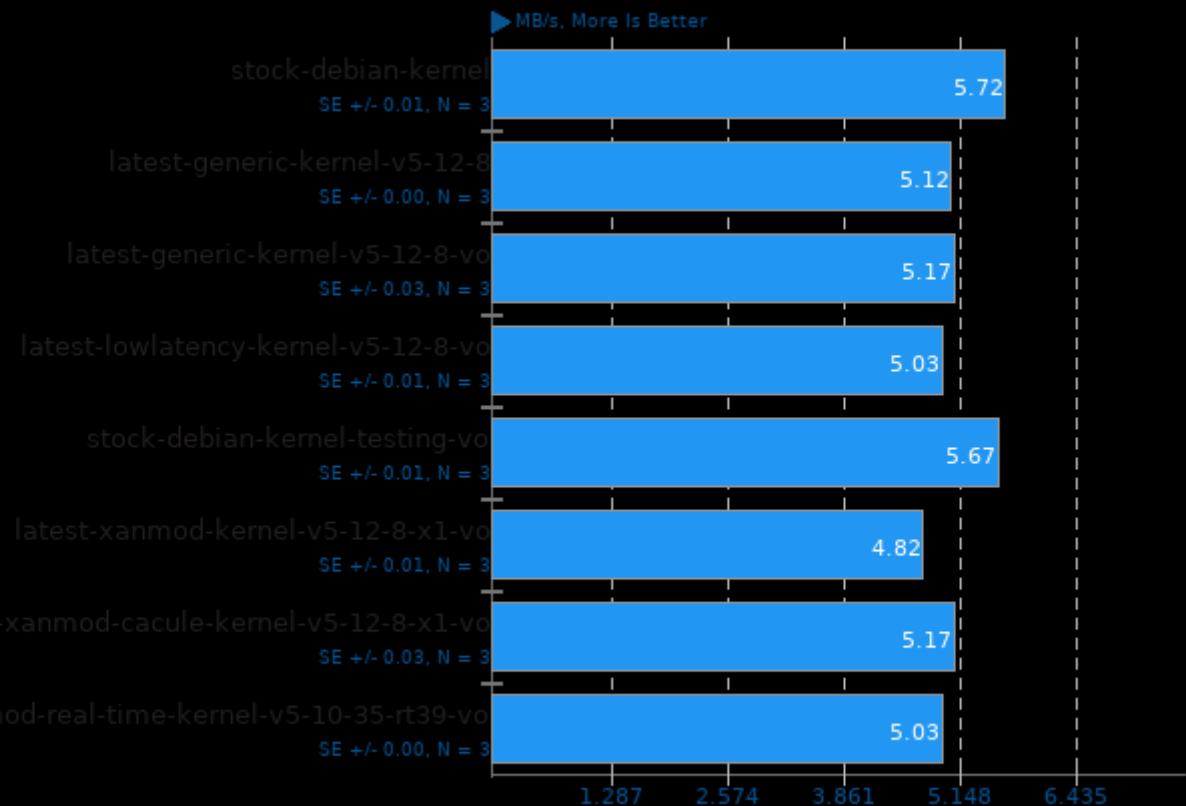
Compression Level: 8 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

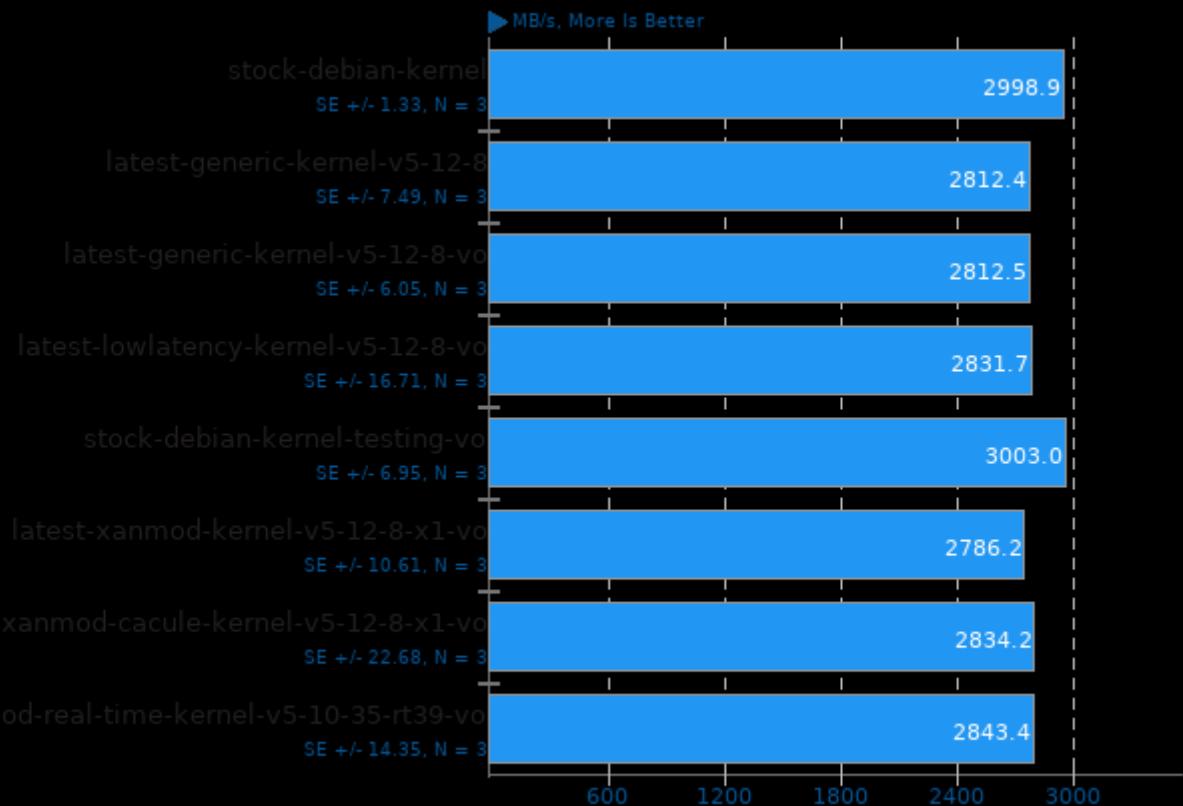
Compression Level: 19 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

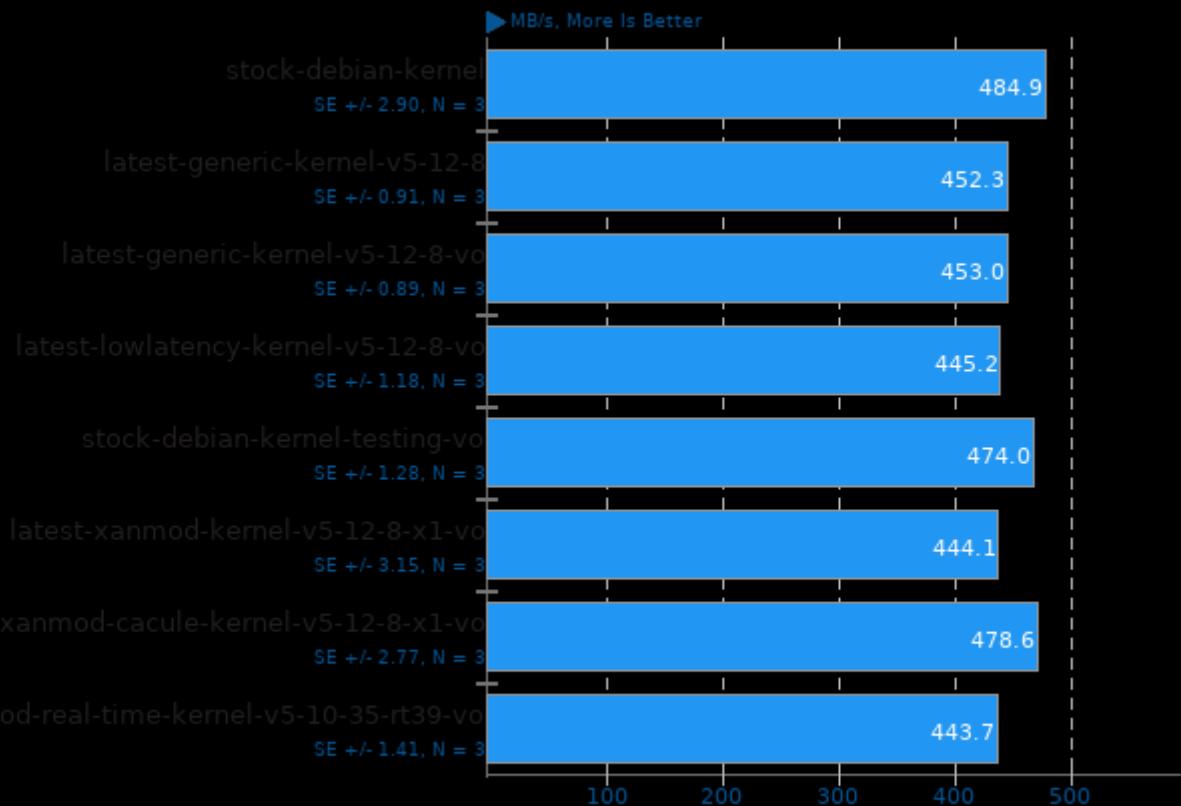
Compression Level: 19 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

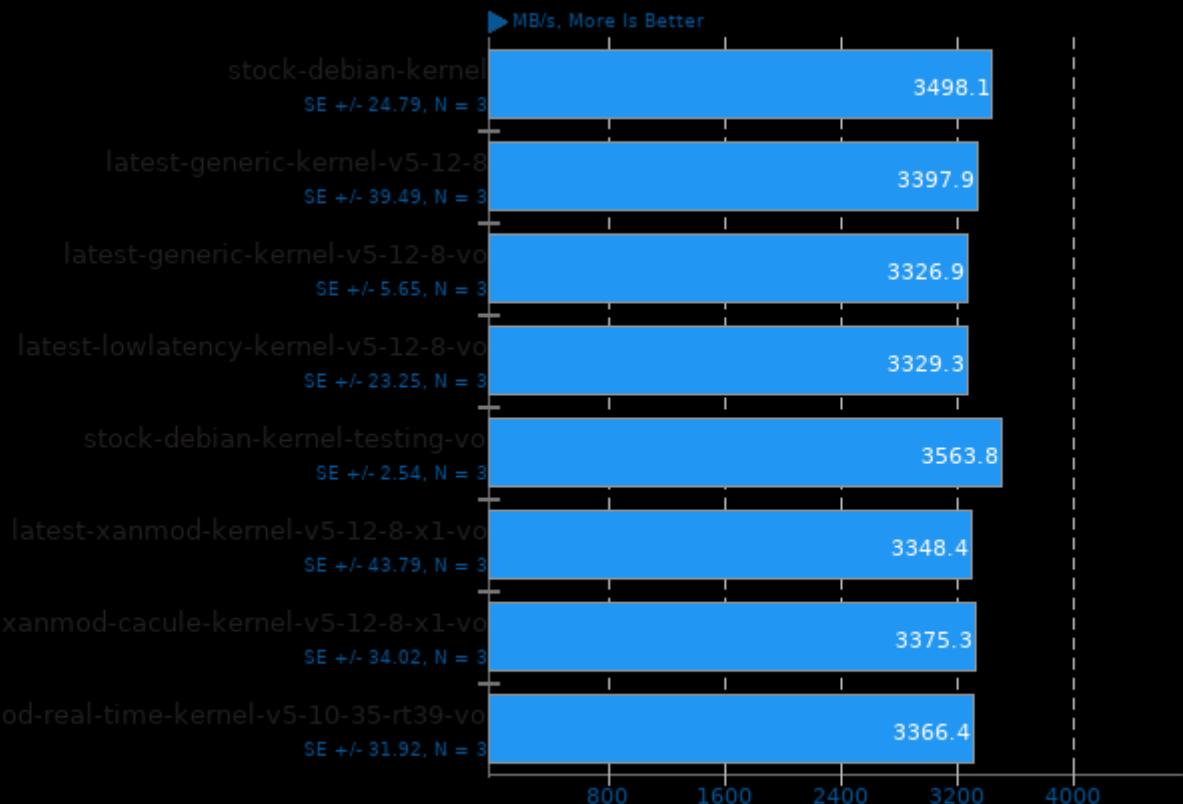
Compression Level: 3, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

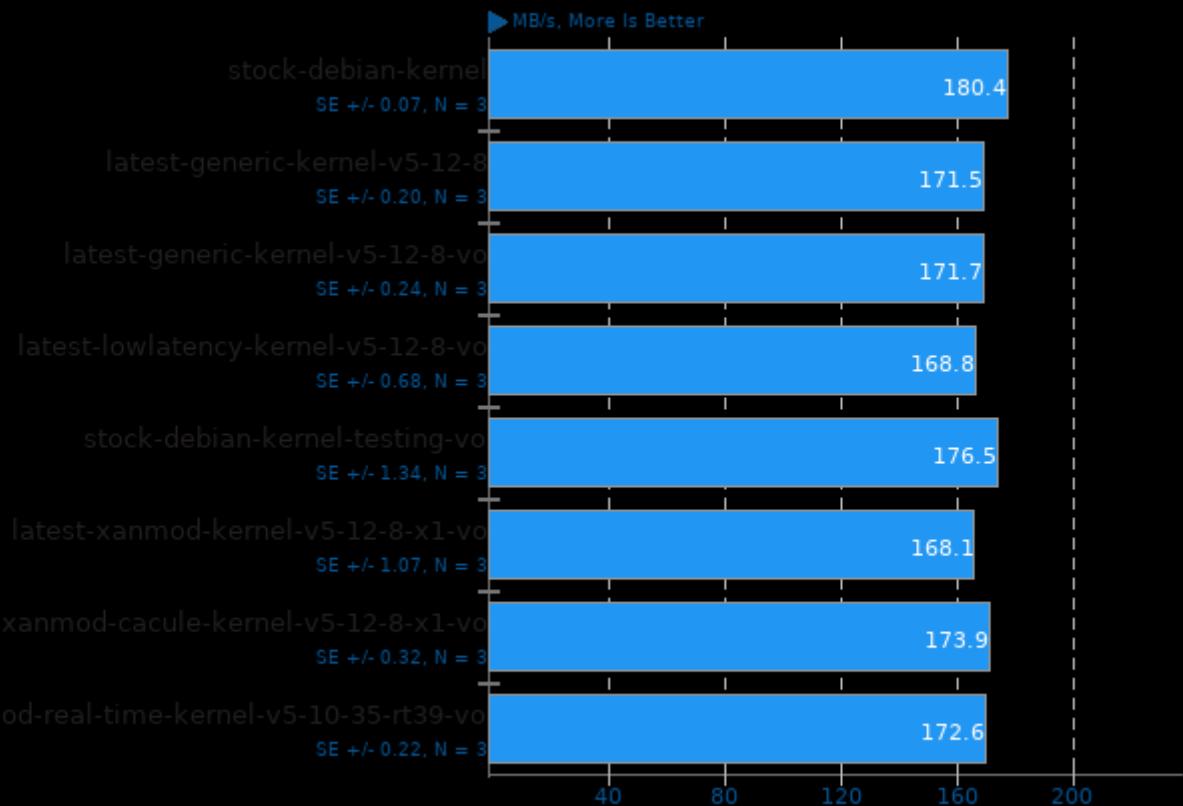
Compression Level: 3, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

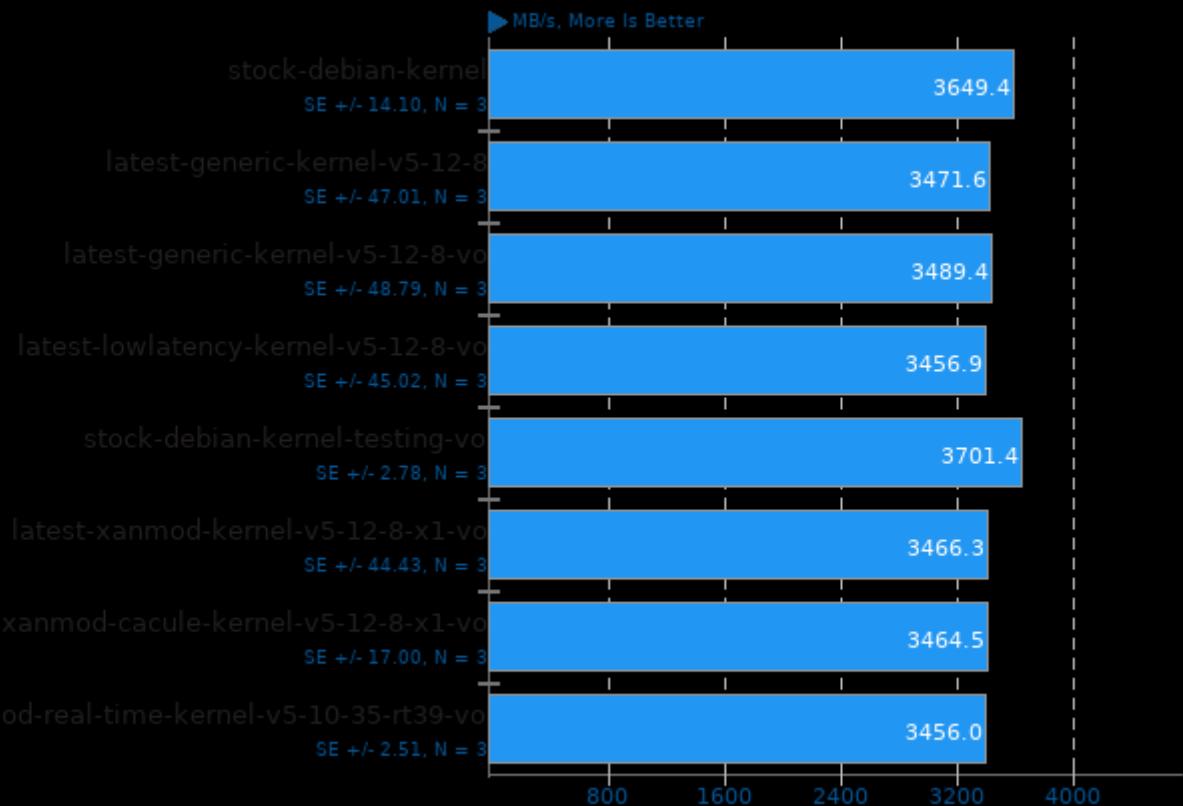
Compression Level: 8, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

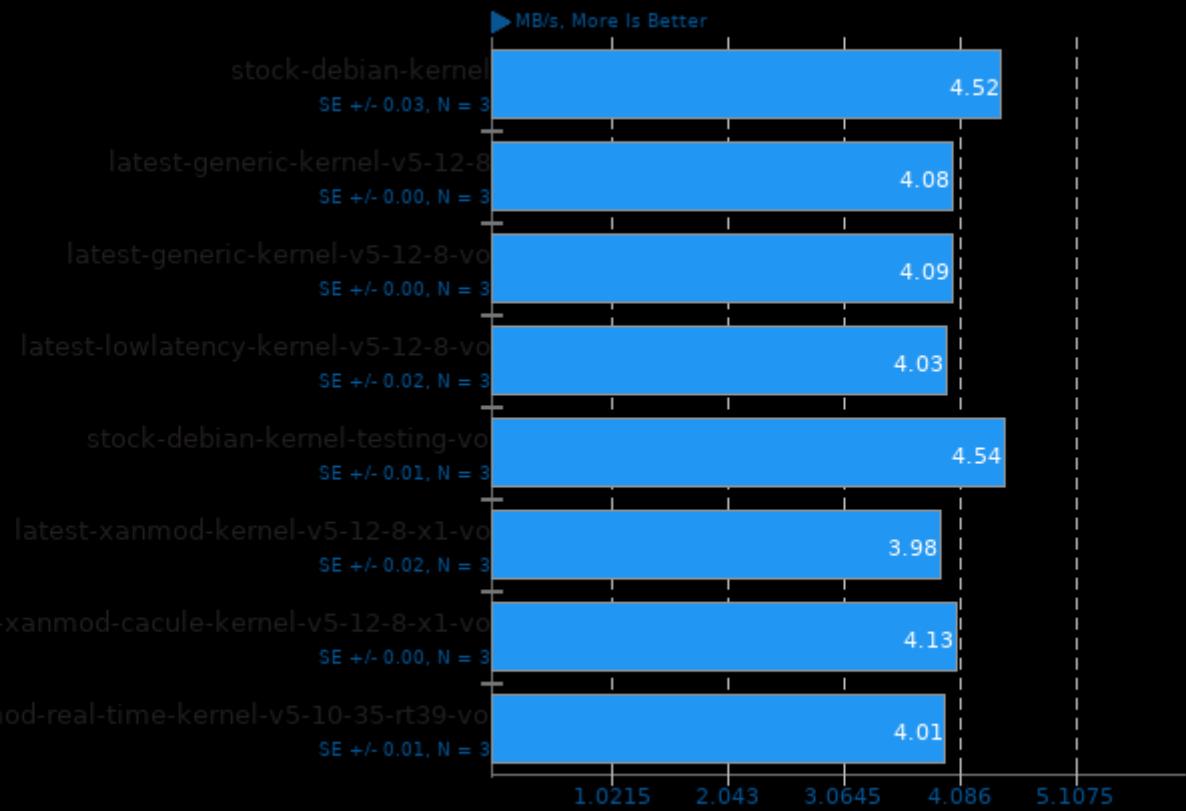
Compression Level: 8, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

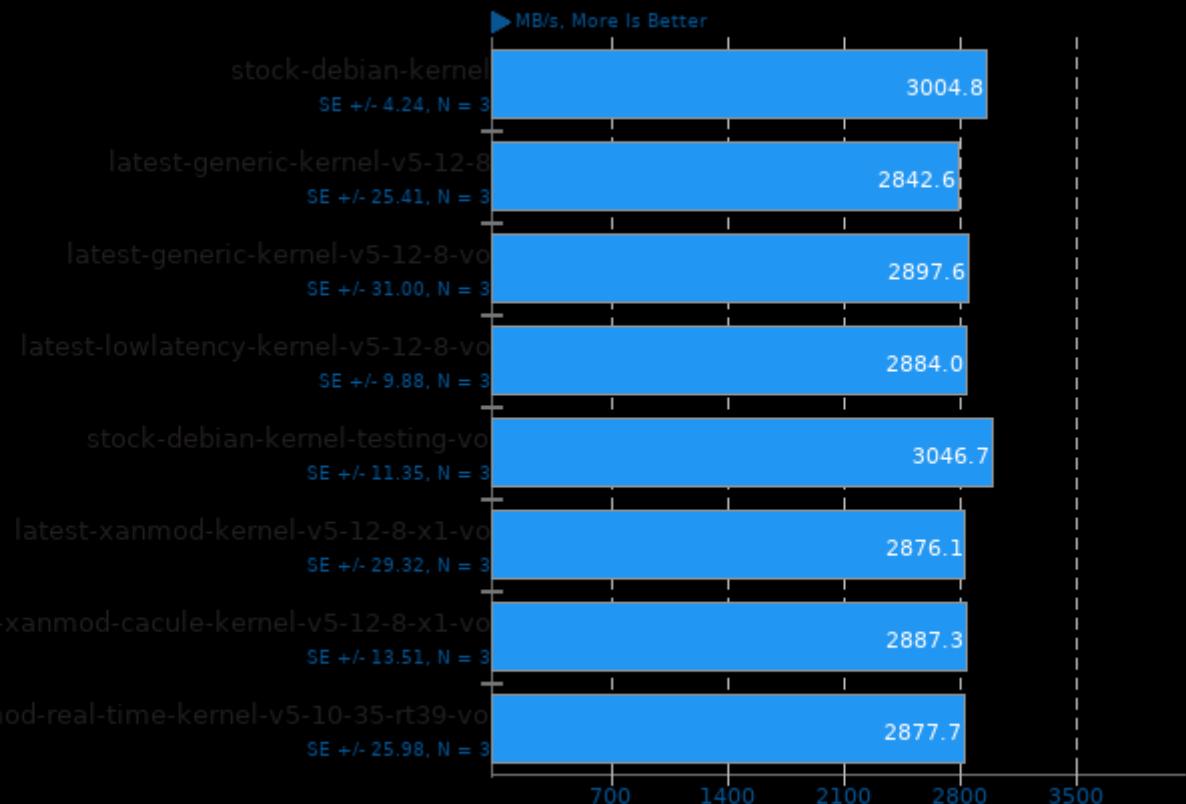
Compression Level: 19, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

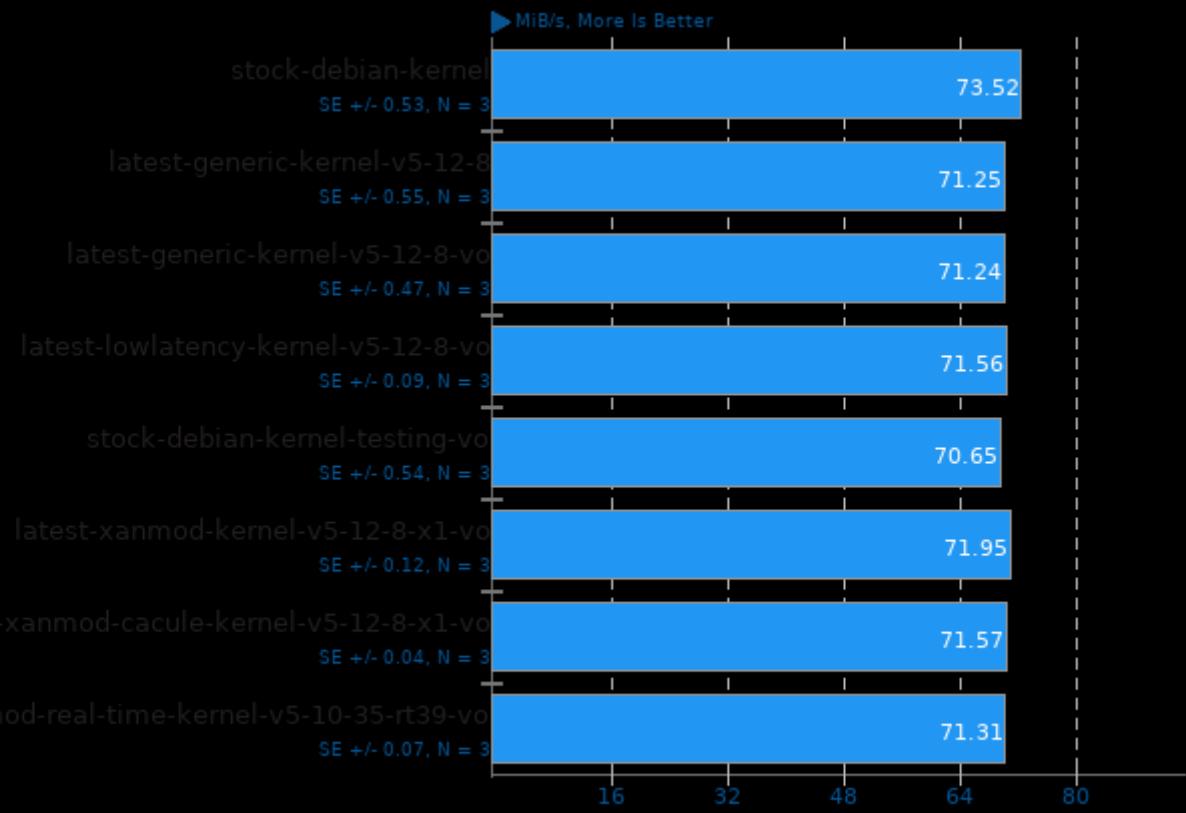
Compression Level: 19, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

Botan 2.17.3

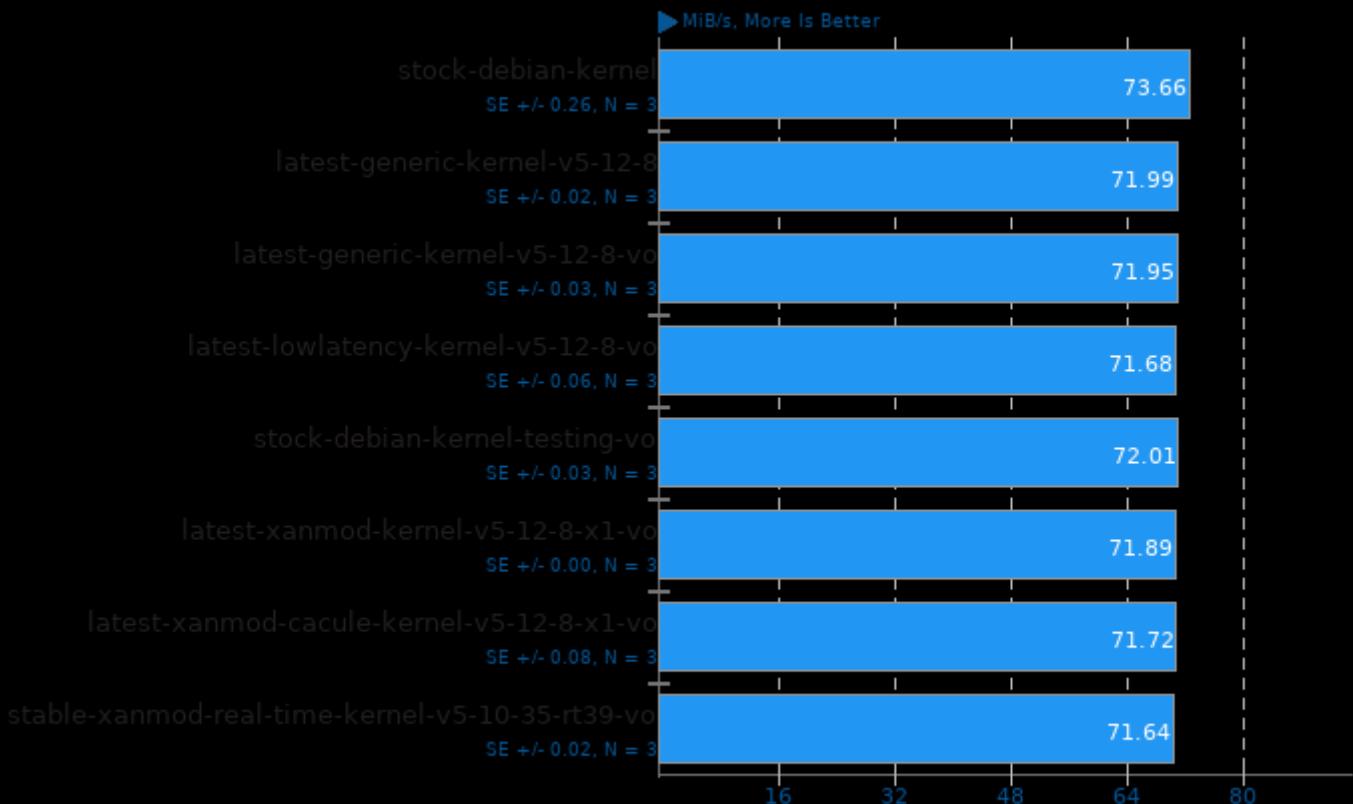
Test: KASUMI



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

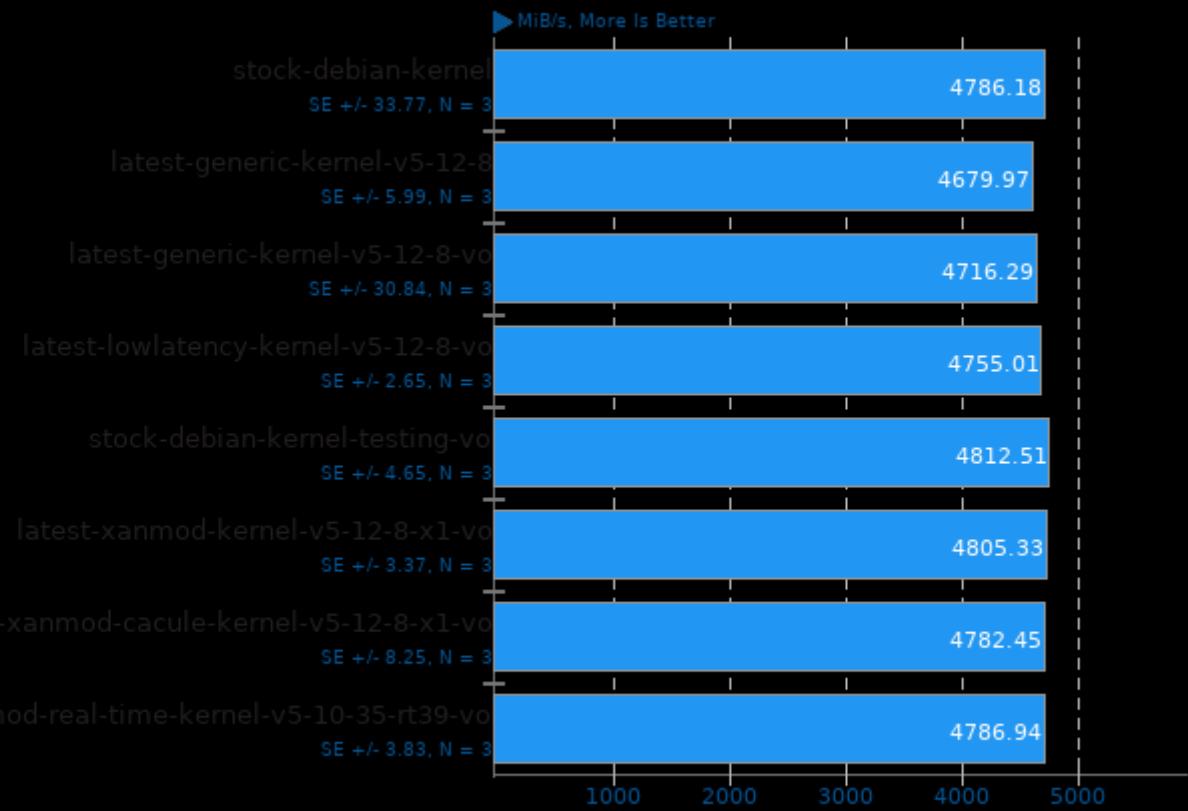
Test: KASUMI - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

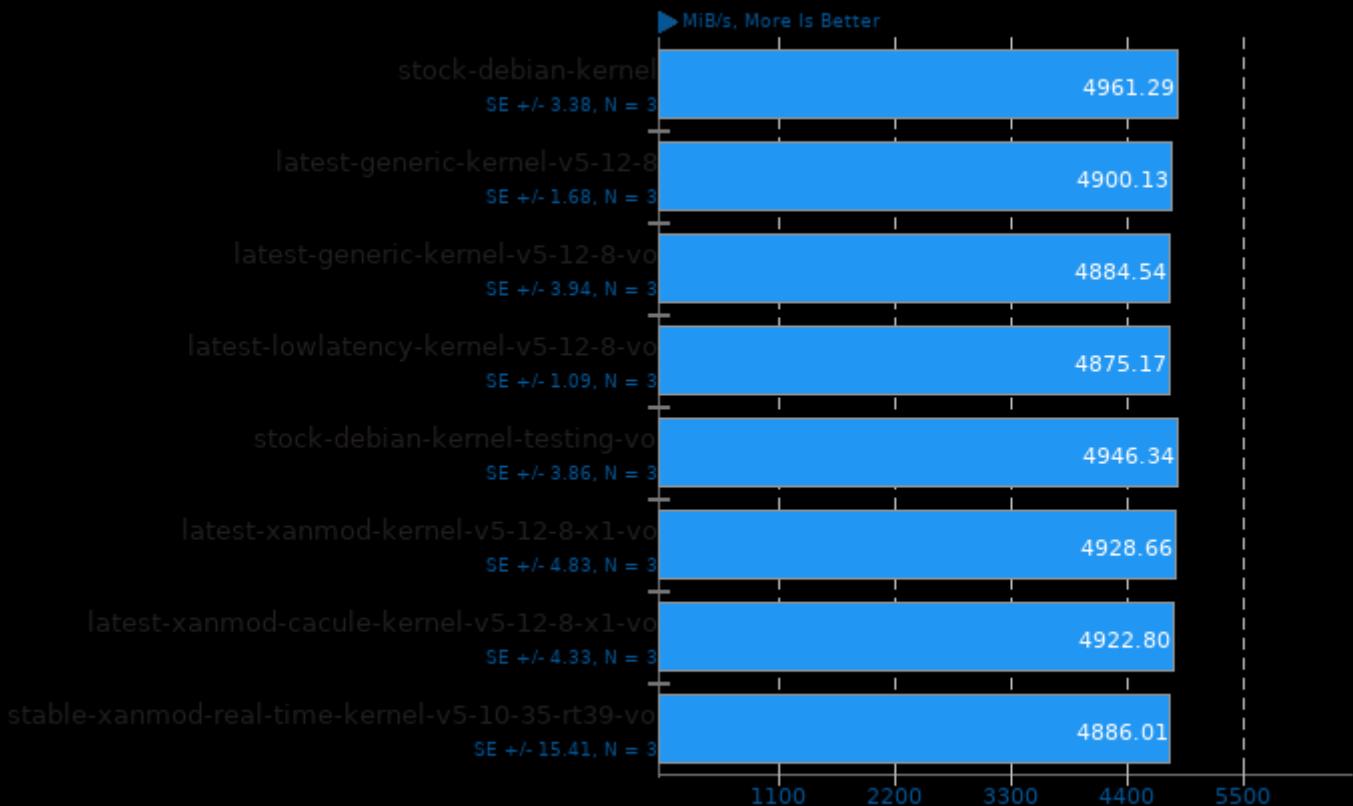
Test: AES-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

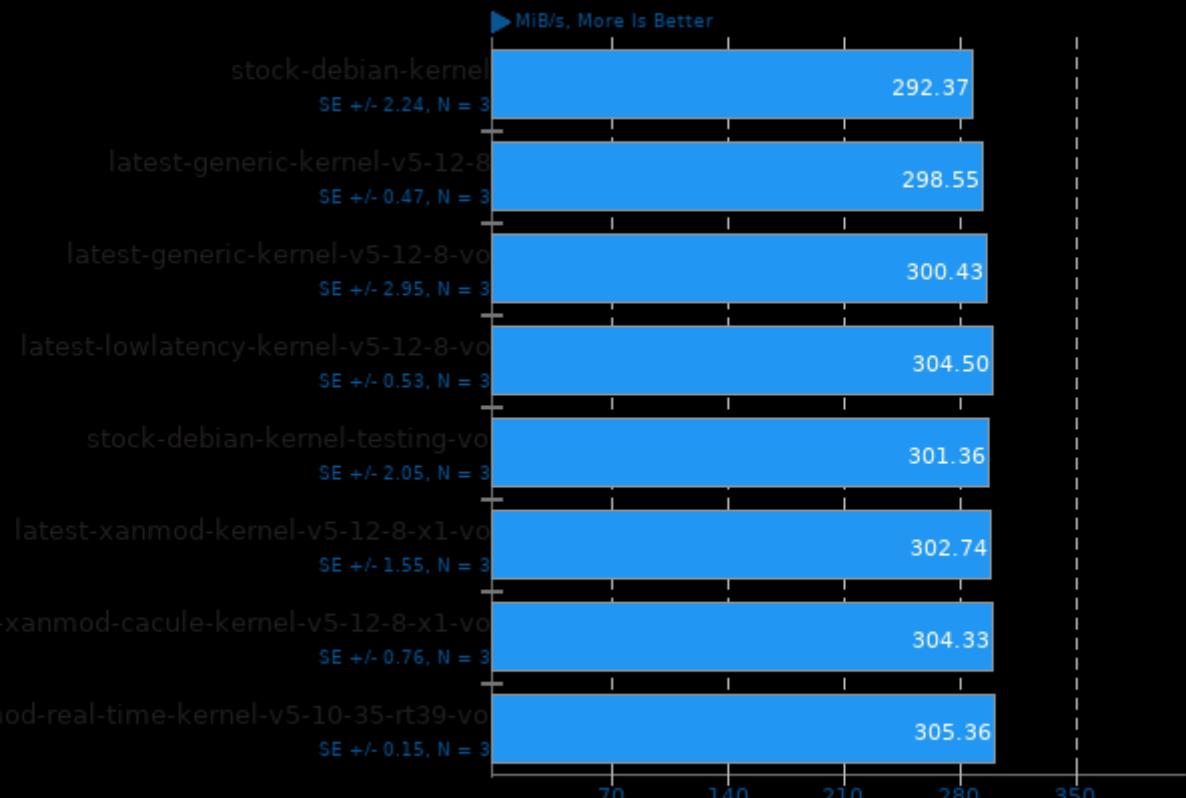
Test: AES-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

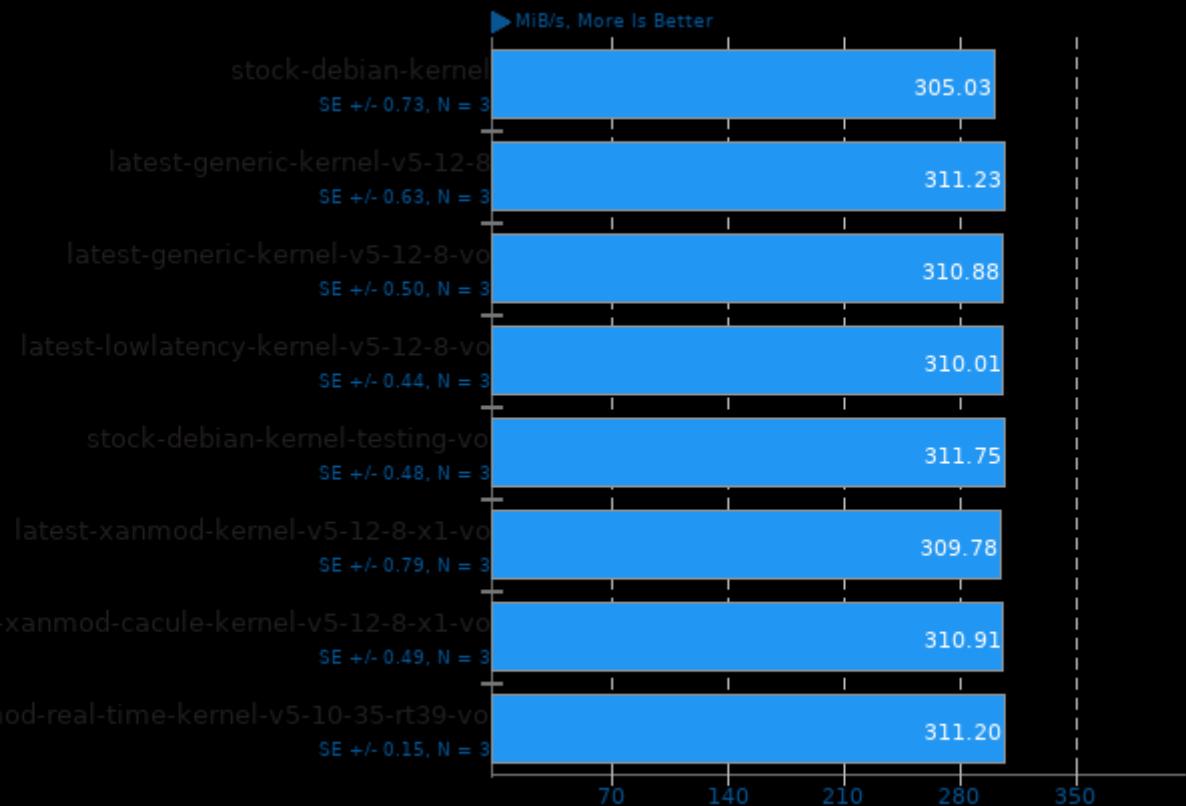
Test: Twofish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

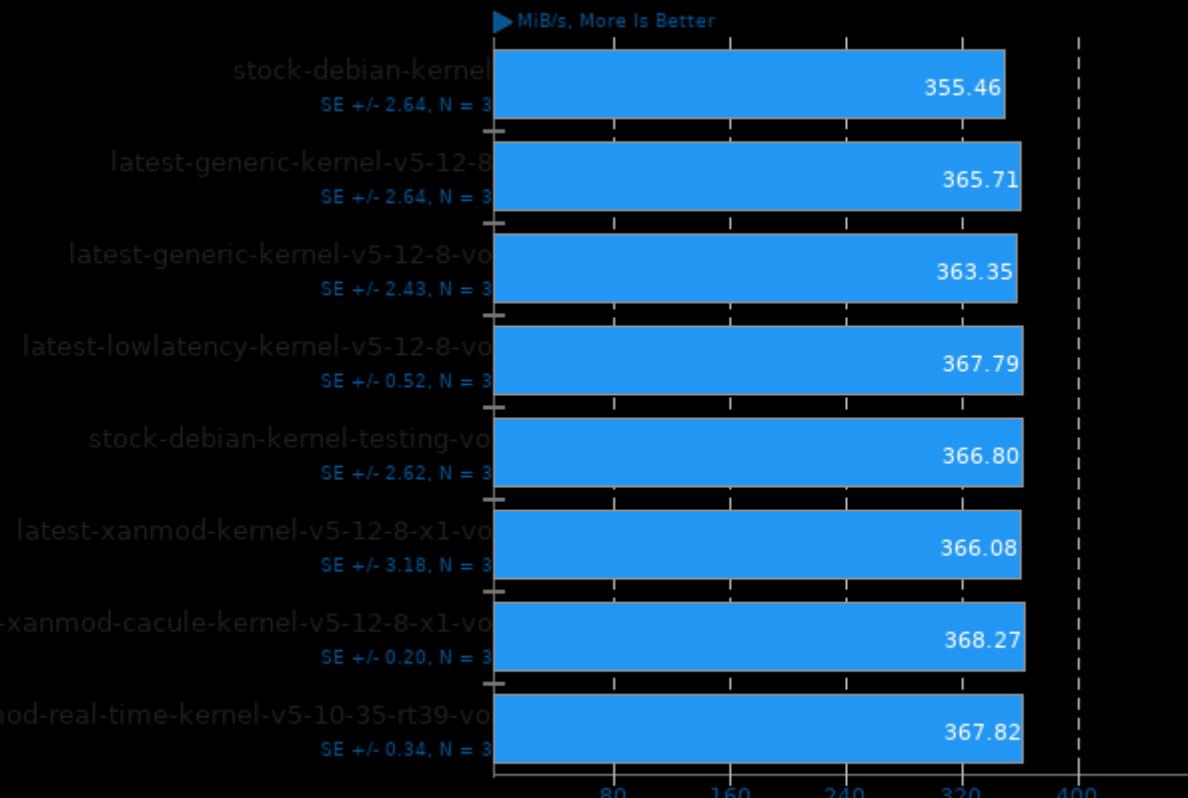
Test: Twofish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

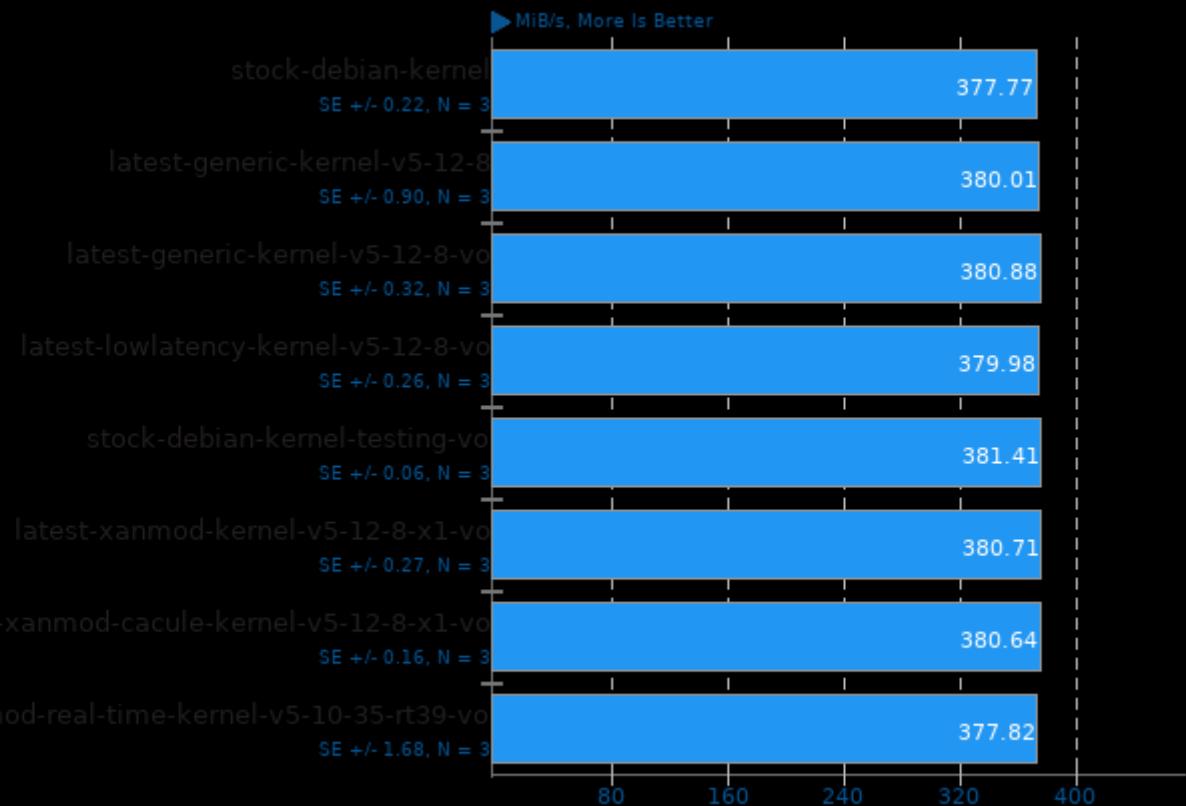
Test: Blowfish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

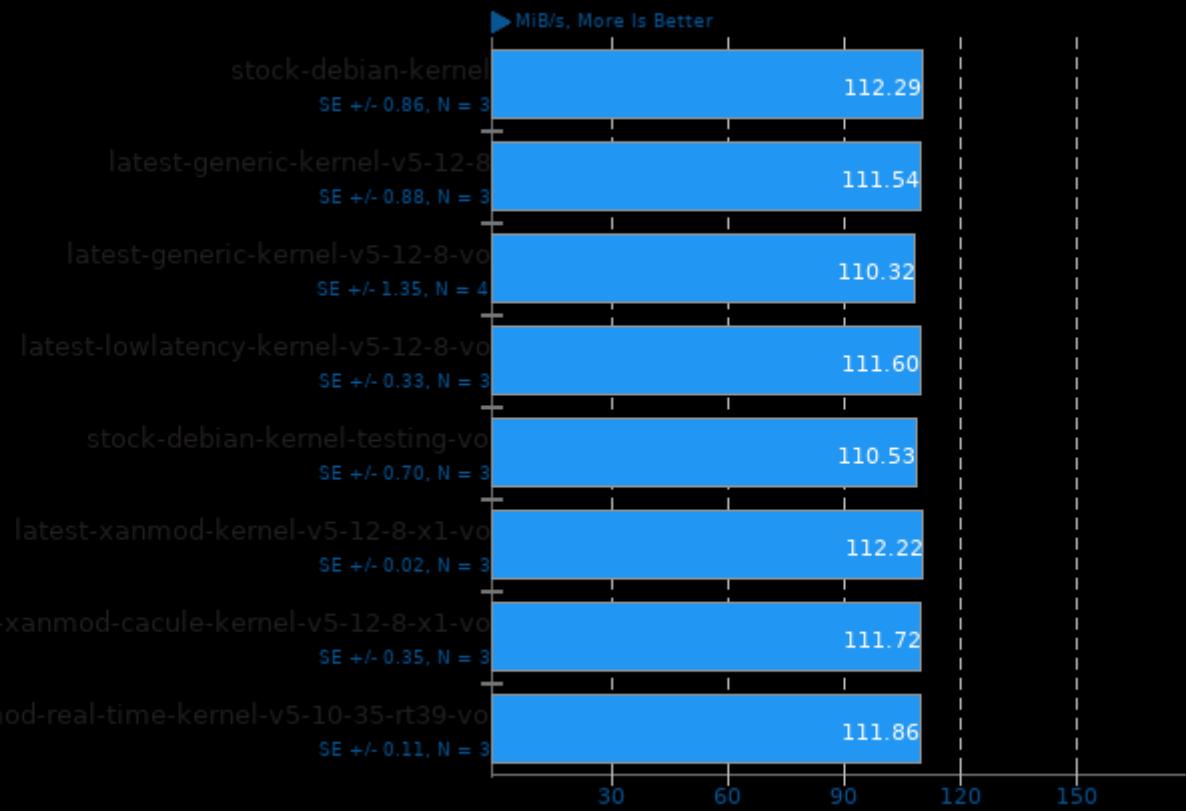
Test: Blowfish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

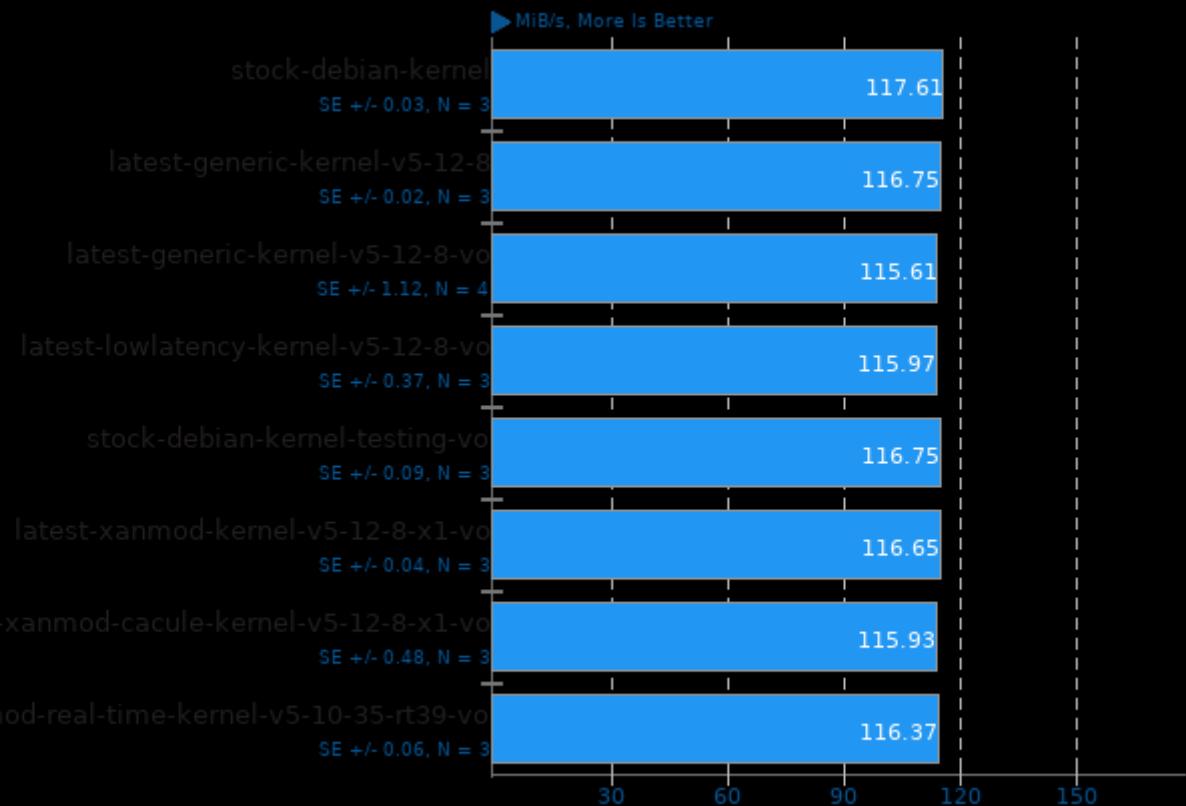
Test: CAST-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

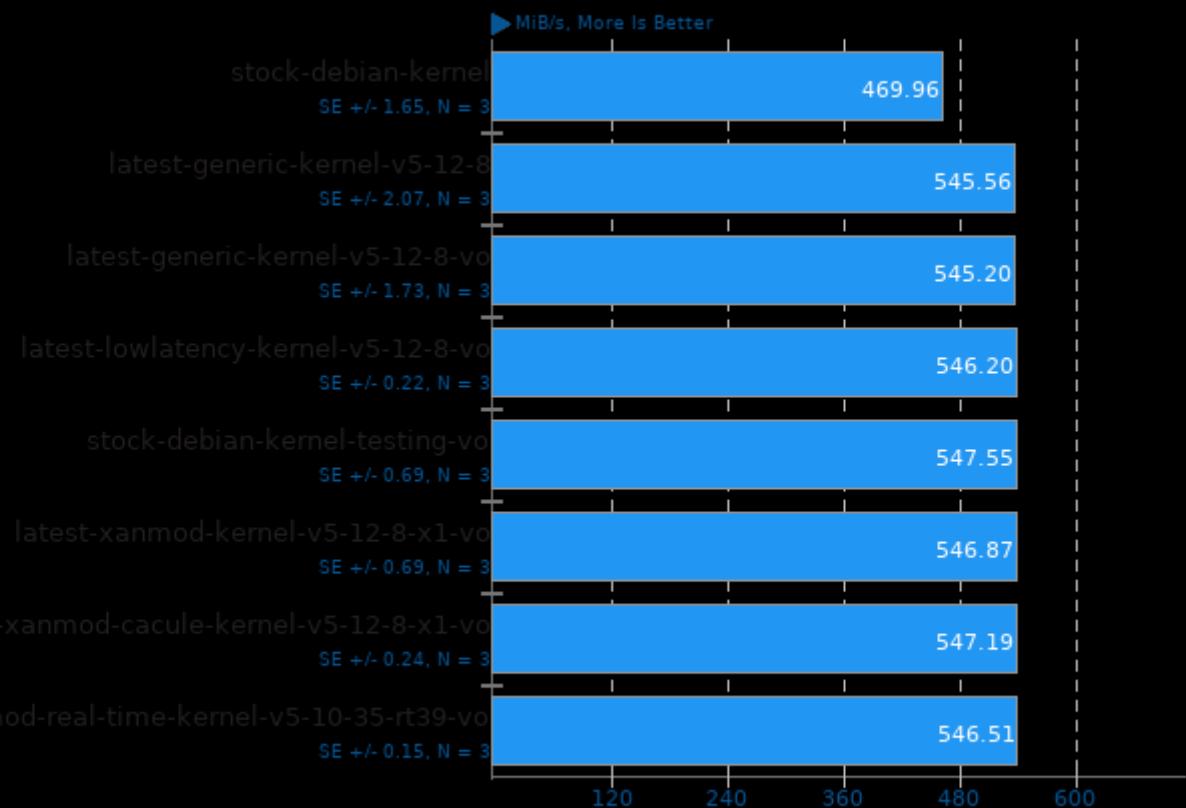
Test: CAST-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

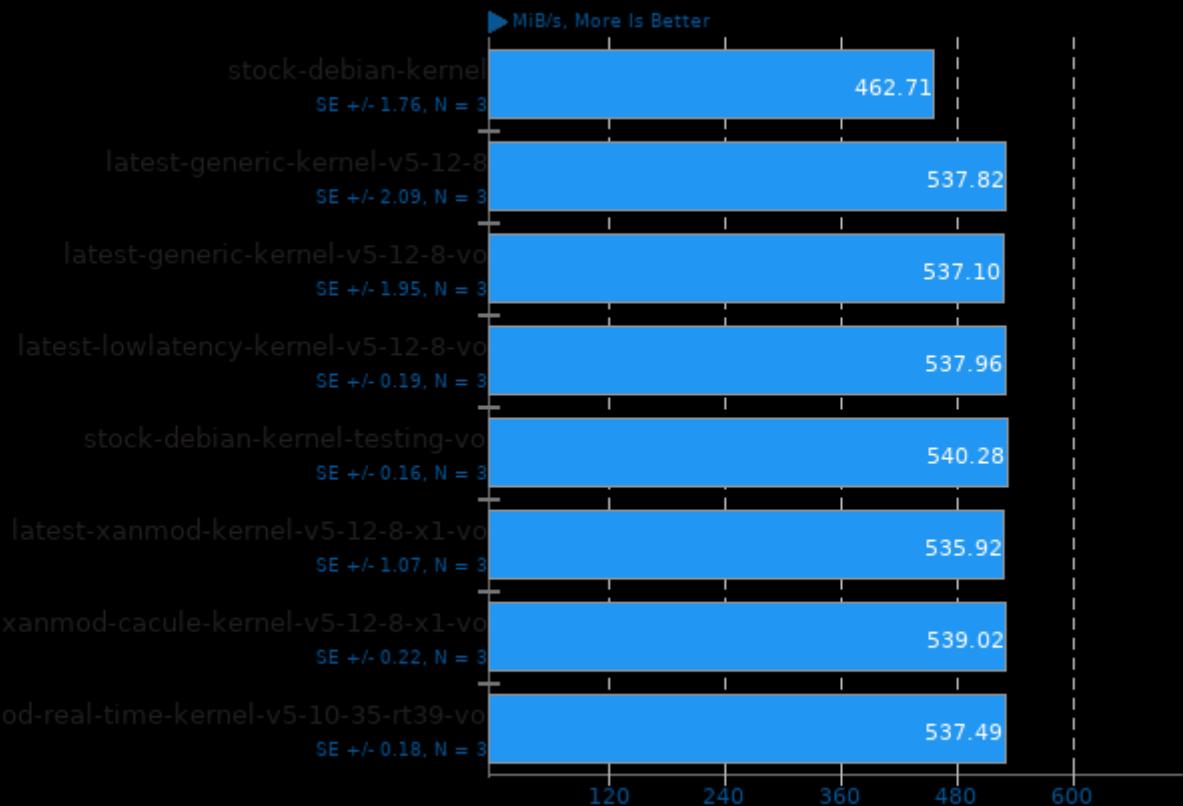
Test: ChaCha20Poly1305



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

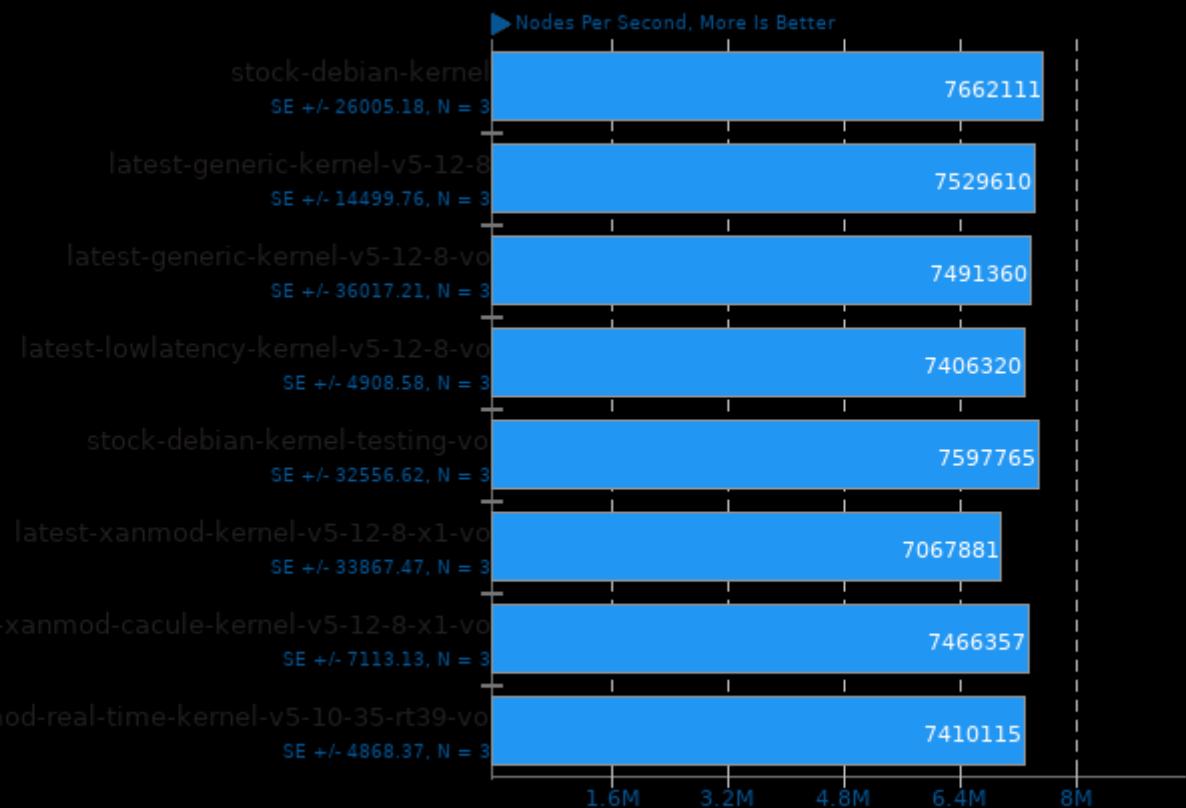
Test: ChaCha20Poly1305 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Crafty 25.2

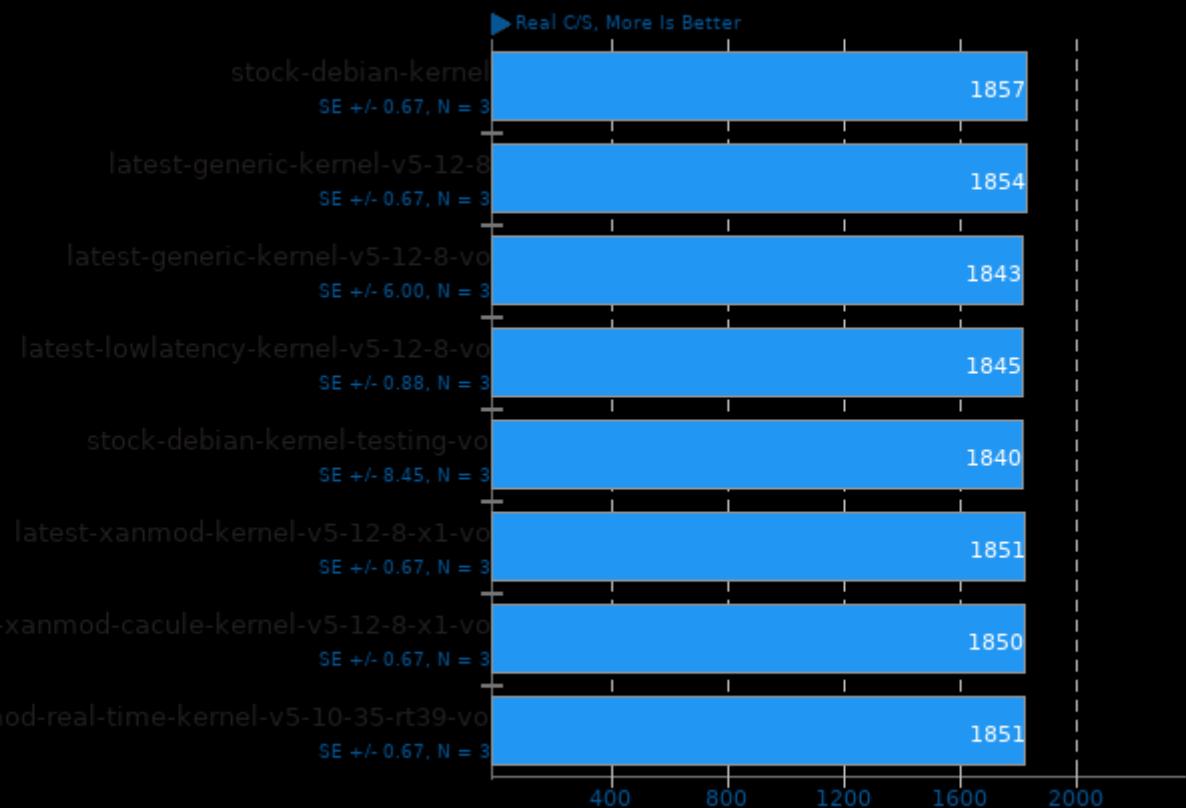
Elapsed Time



1. (CC) gcc options: -pthread -stdc++ -fprofile-use -f

John The Ripper 1.9.0-jumbo-1

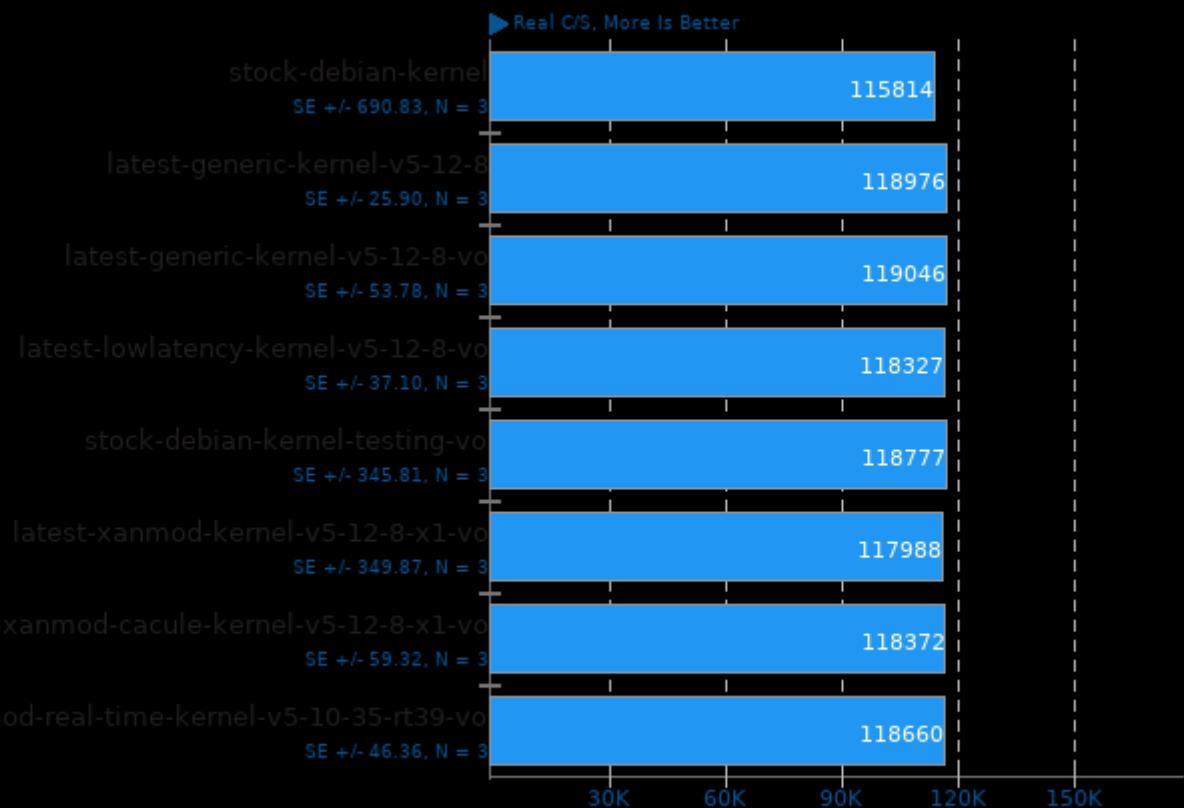
Test: Blowfish



1. (CC) gcc options: -m64 -fopenmp

John The Ripper 1.9.0-jumbo-1

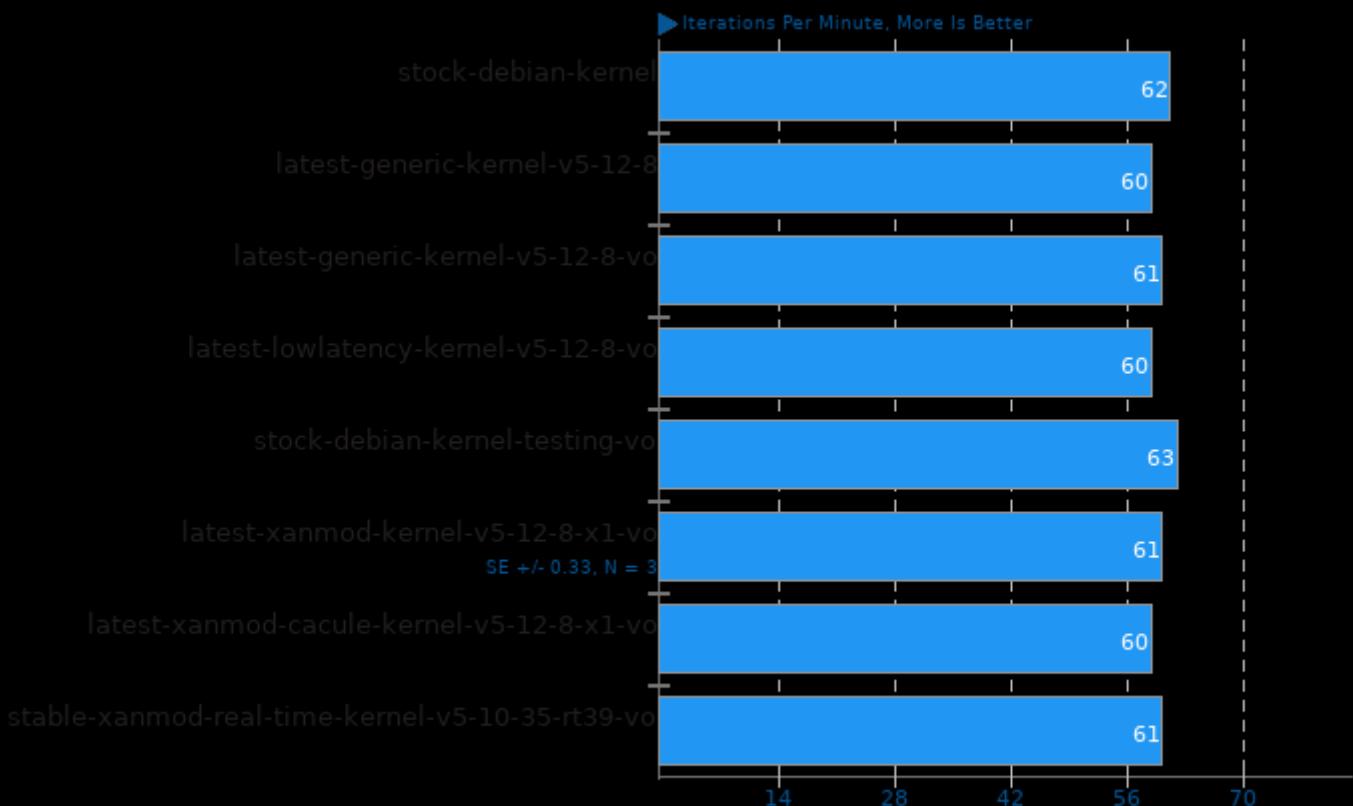
Test: MD5



1. (CC) gcc options: -m64 -fopenmp

GraphicsMagick 1.3.33

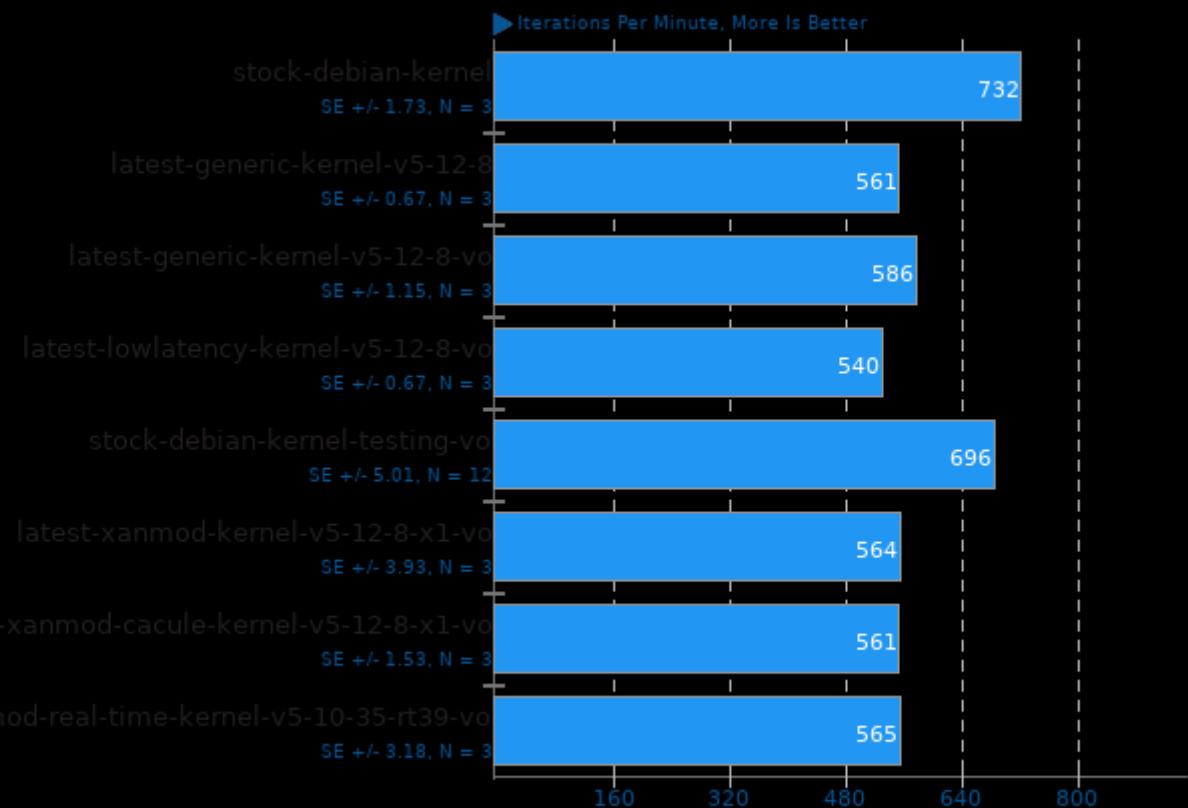
Operation: Swirl



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

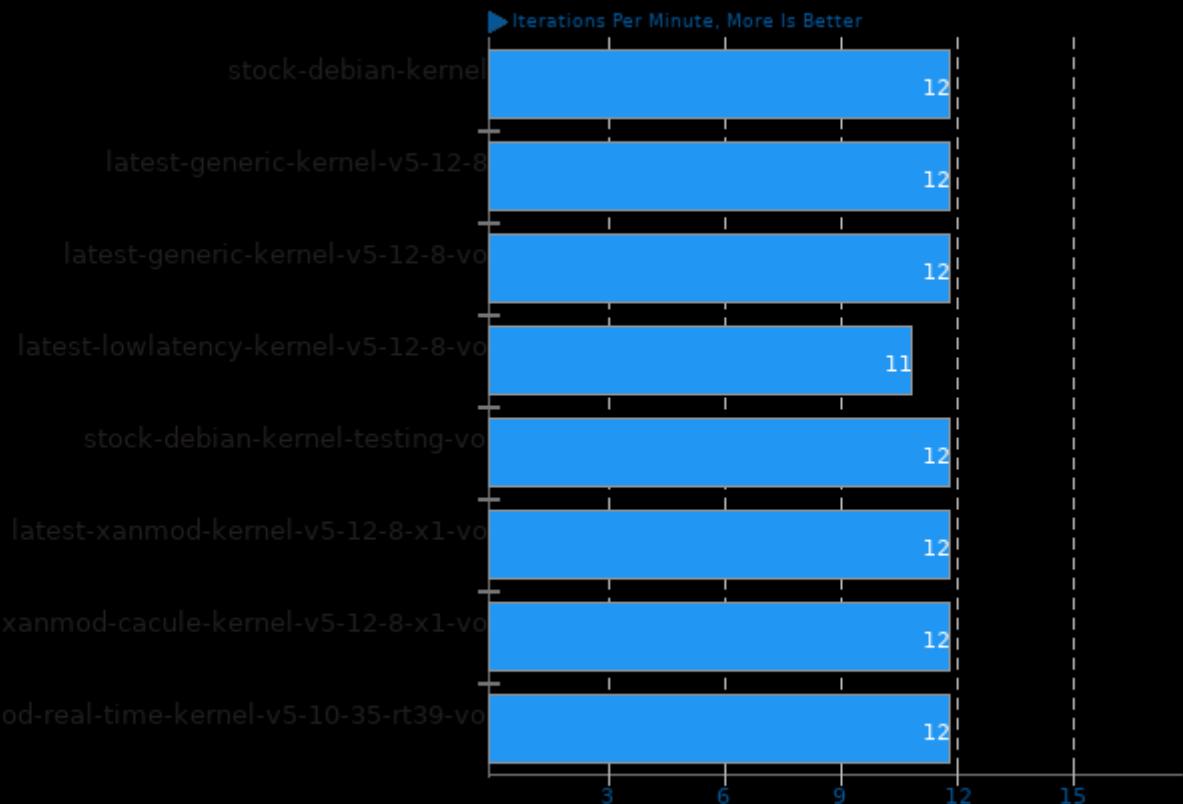
Operation: Rotate



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lIzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

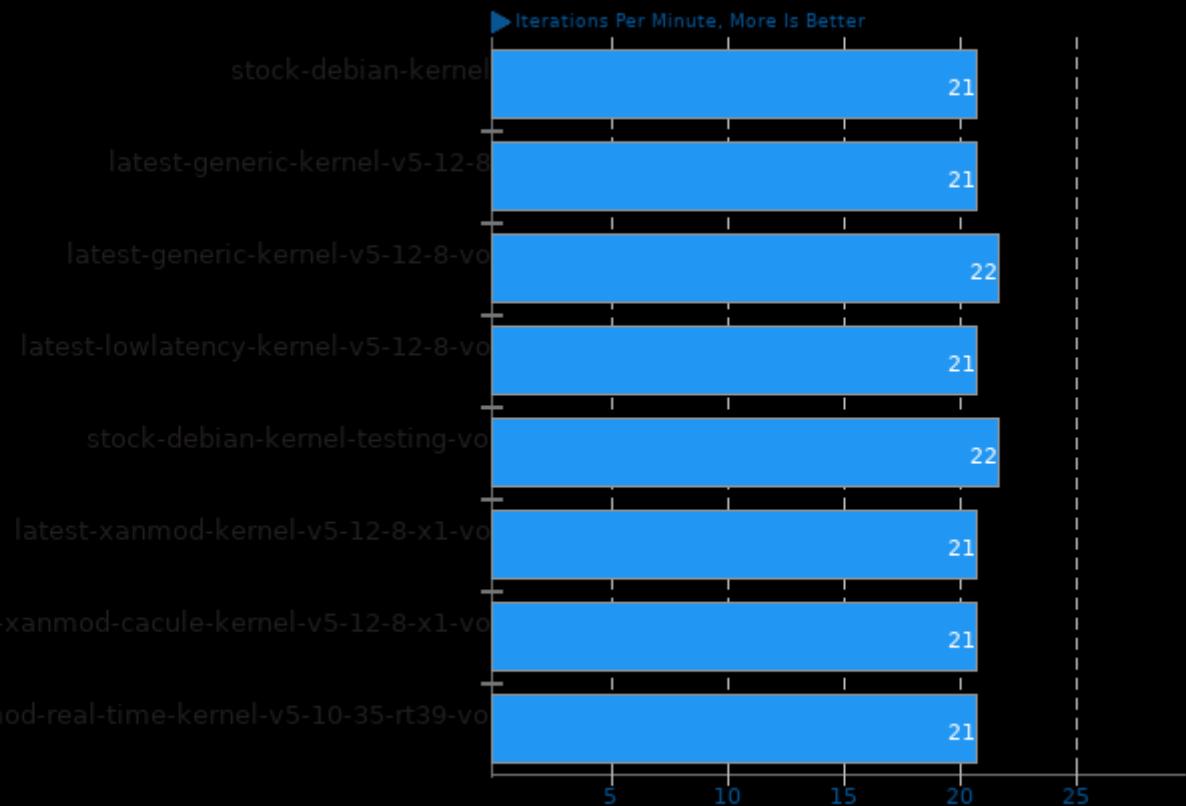
Operation: Sharpen



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

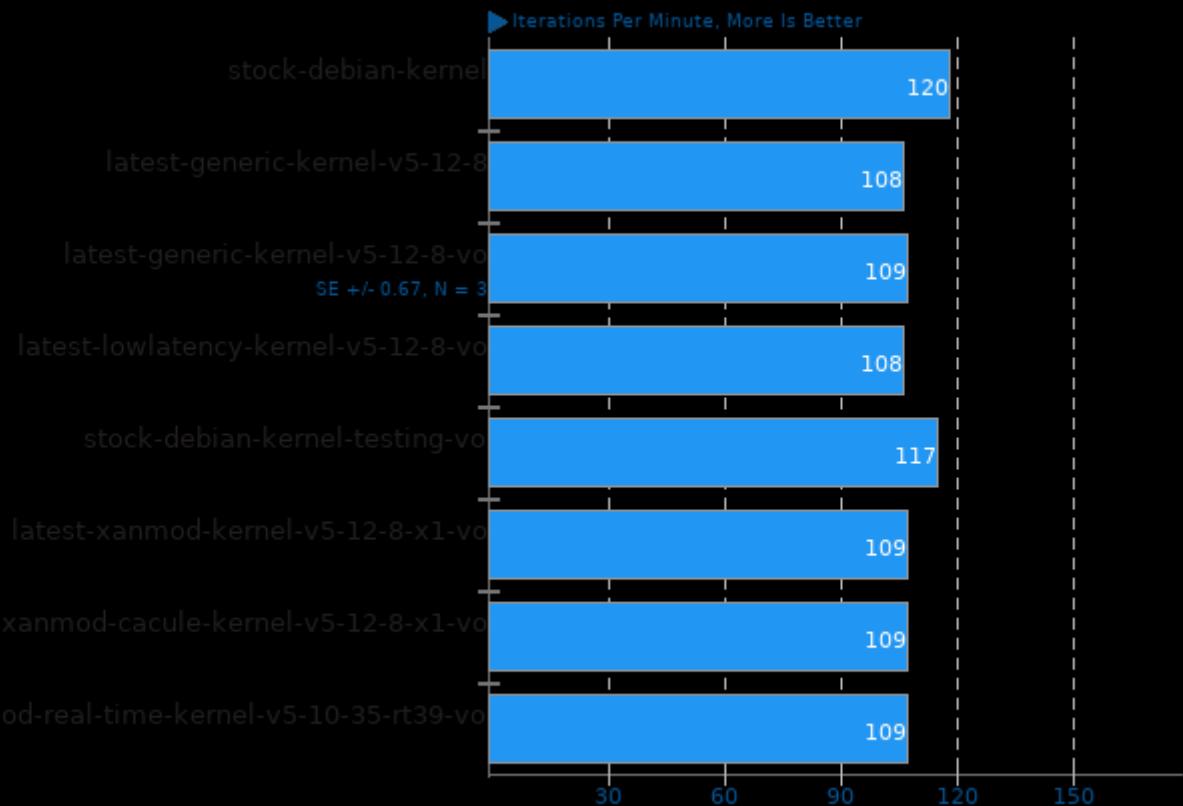
Operation: Enhanced



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

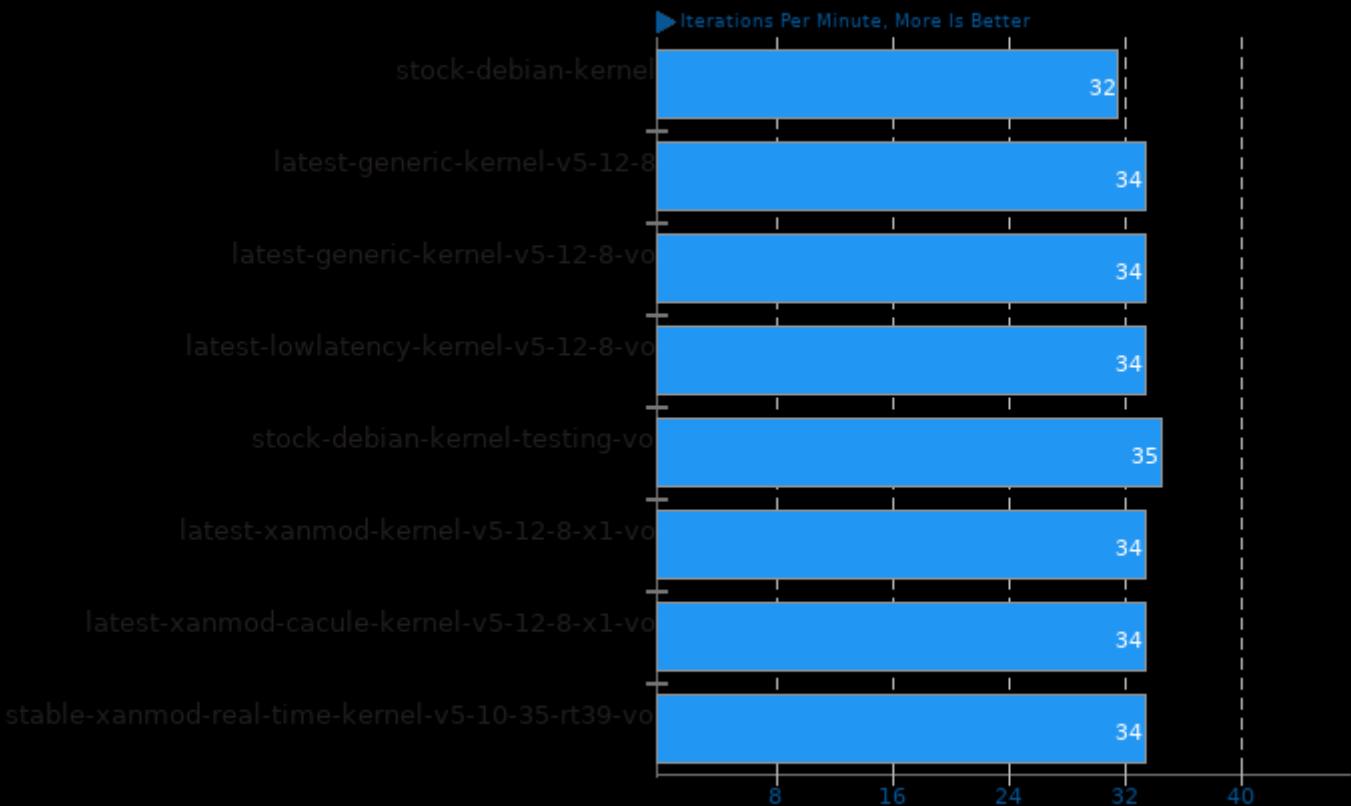
Operation: Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

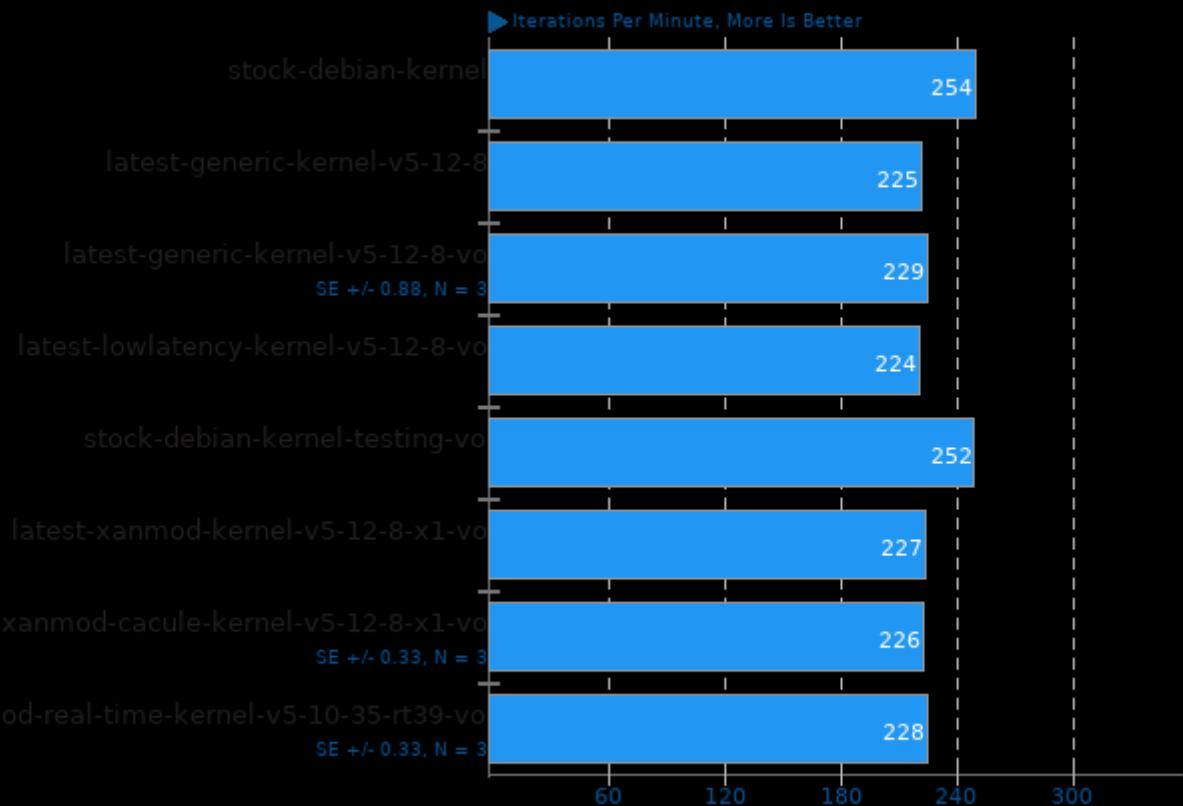
Operation: Noise-Gaussian



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lzma -lbz2 -lxml2 -lz -lm -lpthread

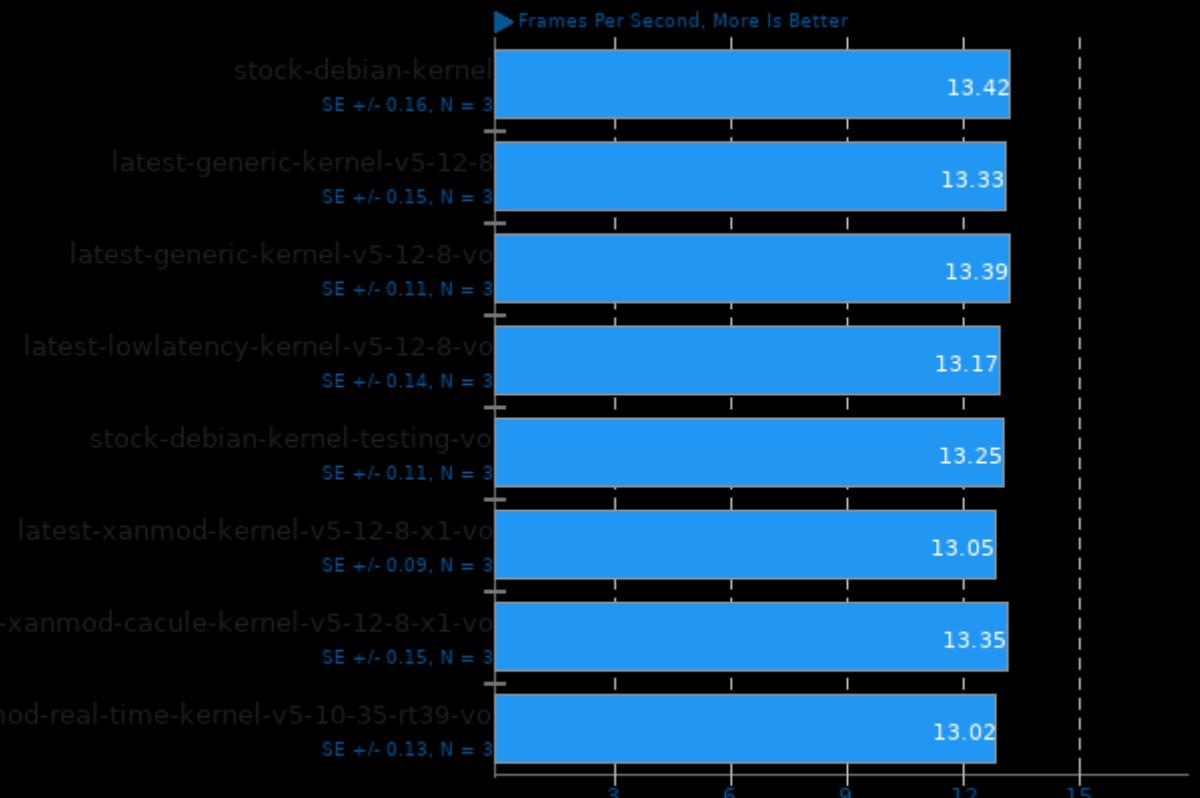
GraphicsMagick 1.3.33

Operation: HWB Color Space



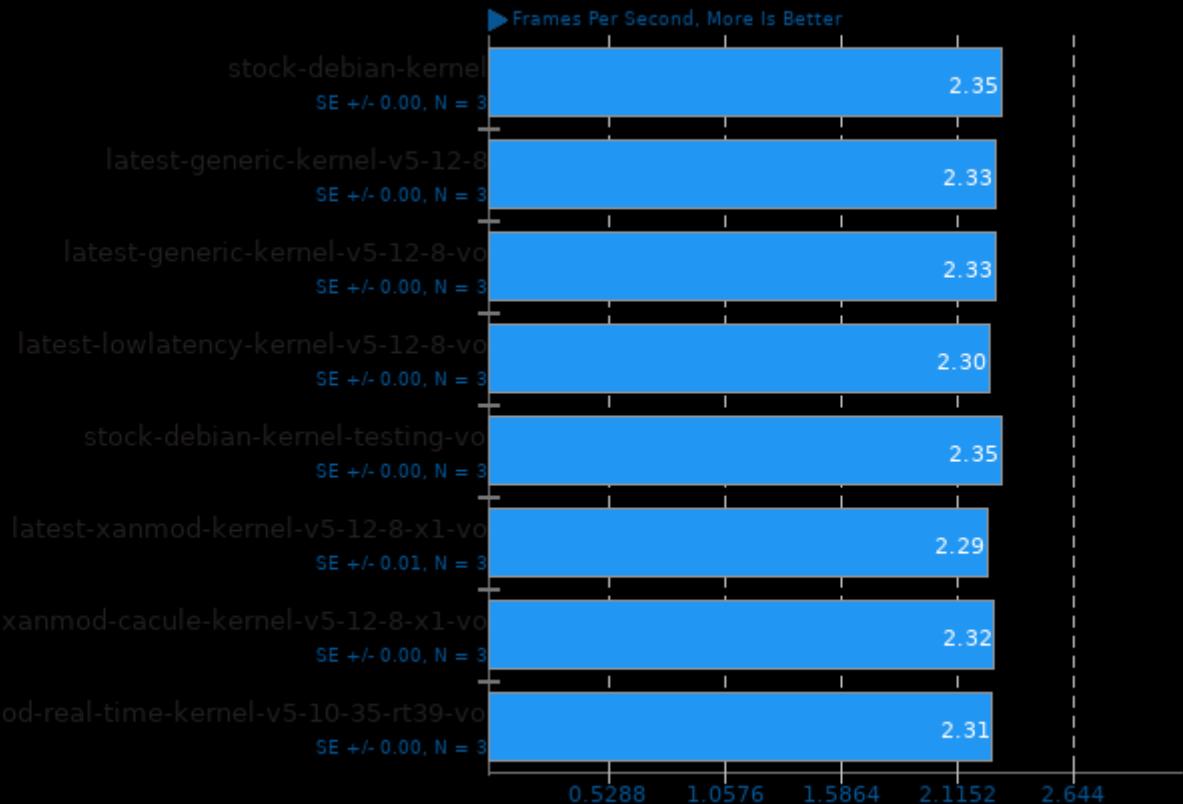
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -ltiff -ljpeg -lXext -lSM -lICE -lX11 -lzma -lbz2 -lxml2 -lz -lm -lpthread

x264 2019-12-17



x265 3.4

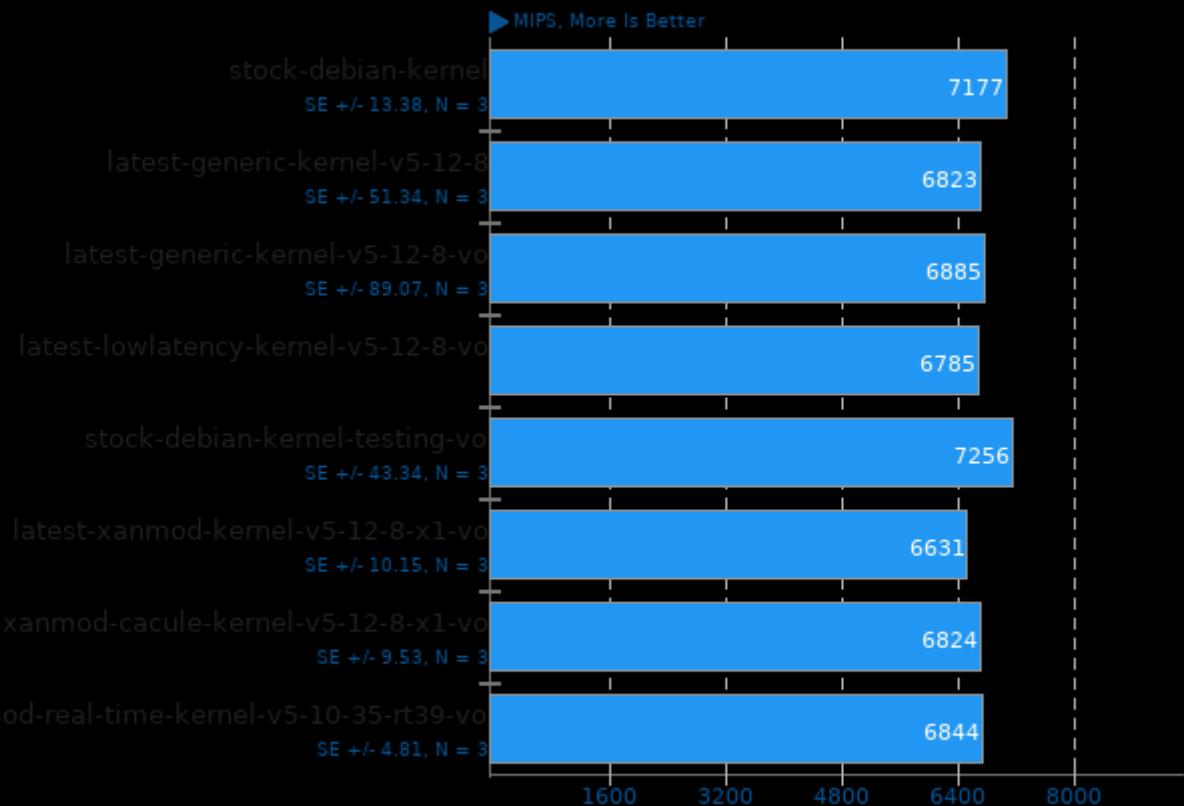
Video Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

7-Zip Compression 16.02

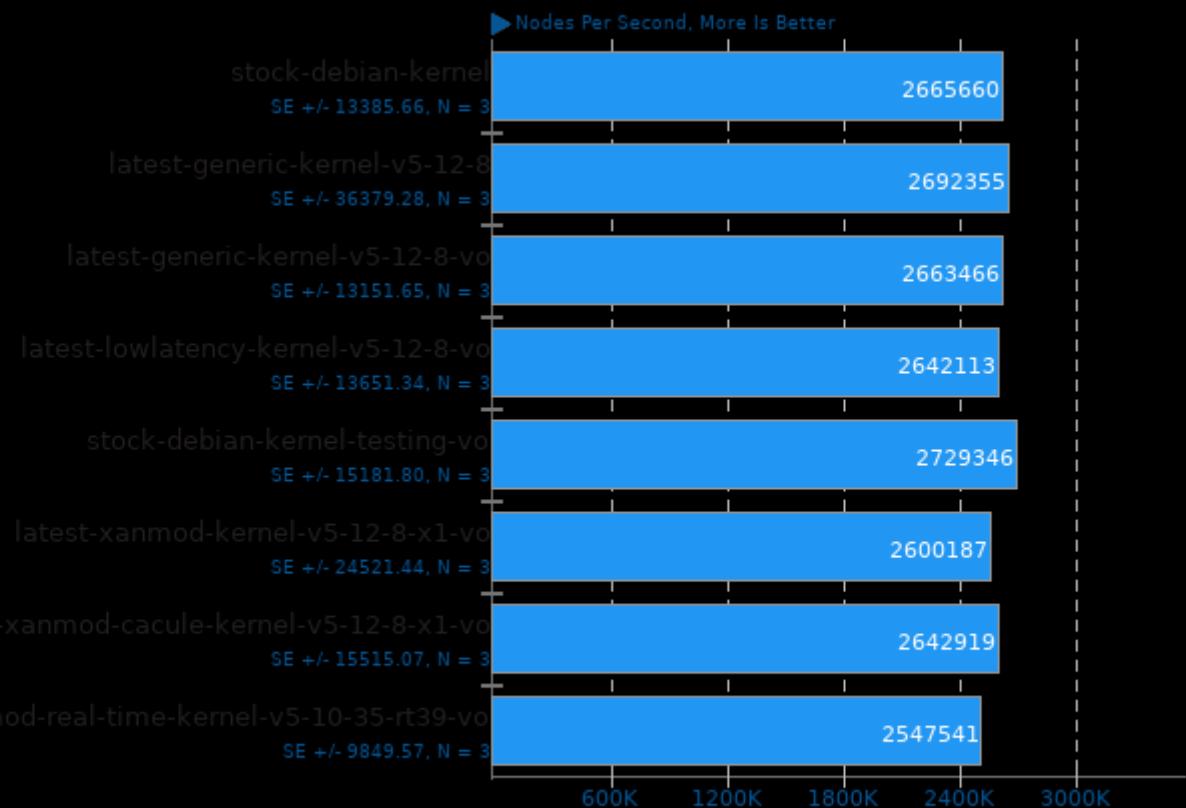
Compress Speed Test



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

Stockfish 13

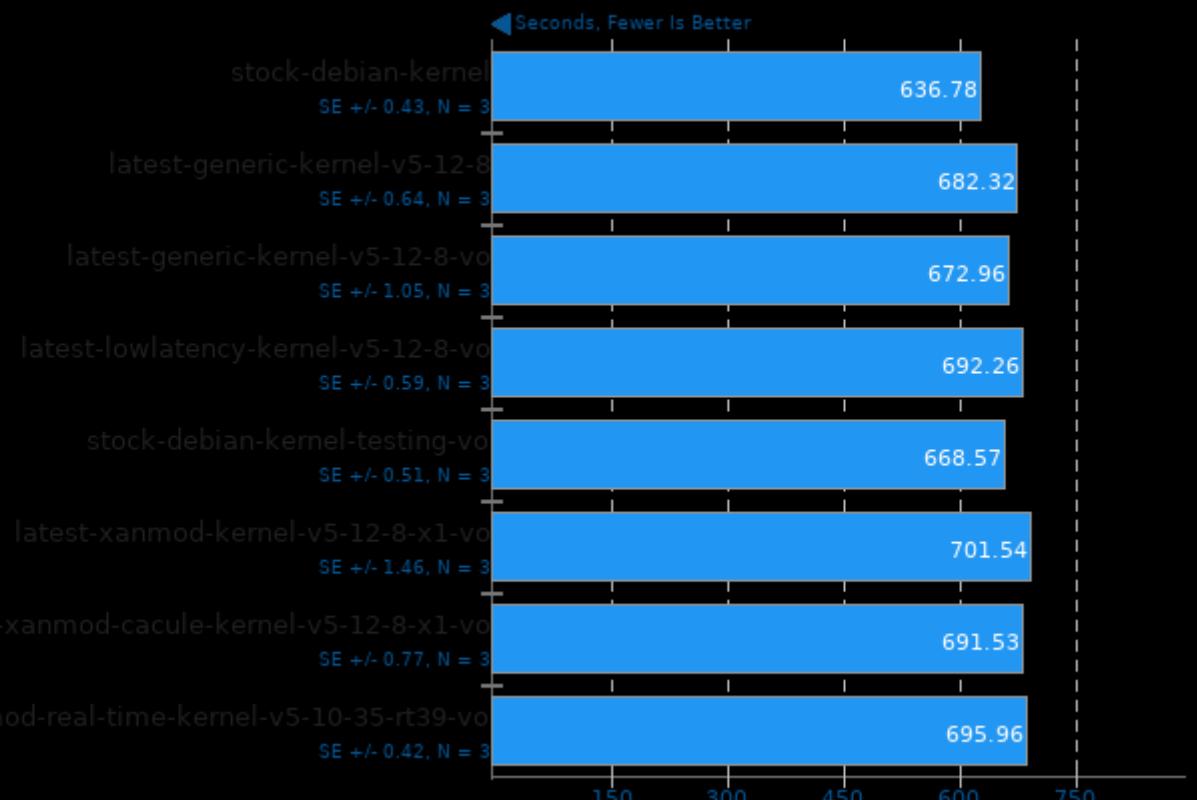
Total Time



1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt -

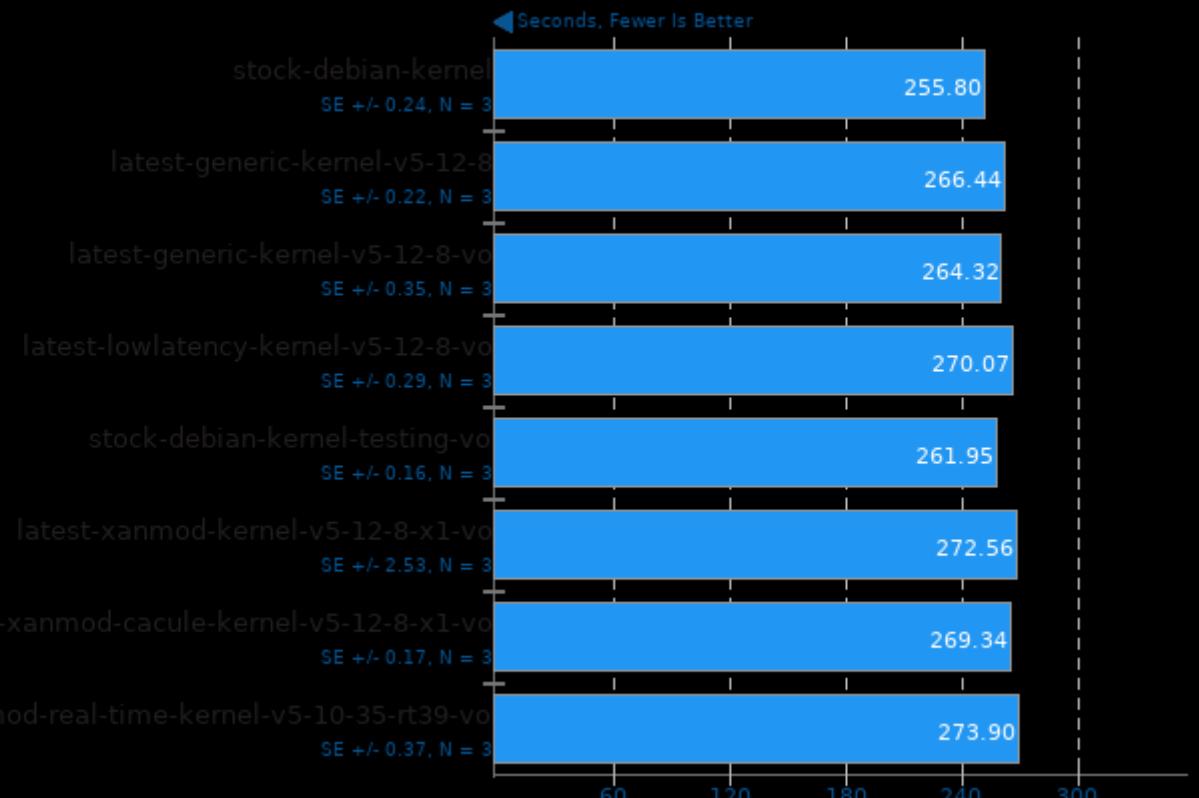
Timed Linux Kernel Compilation 5.10.20

Time To Compile



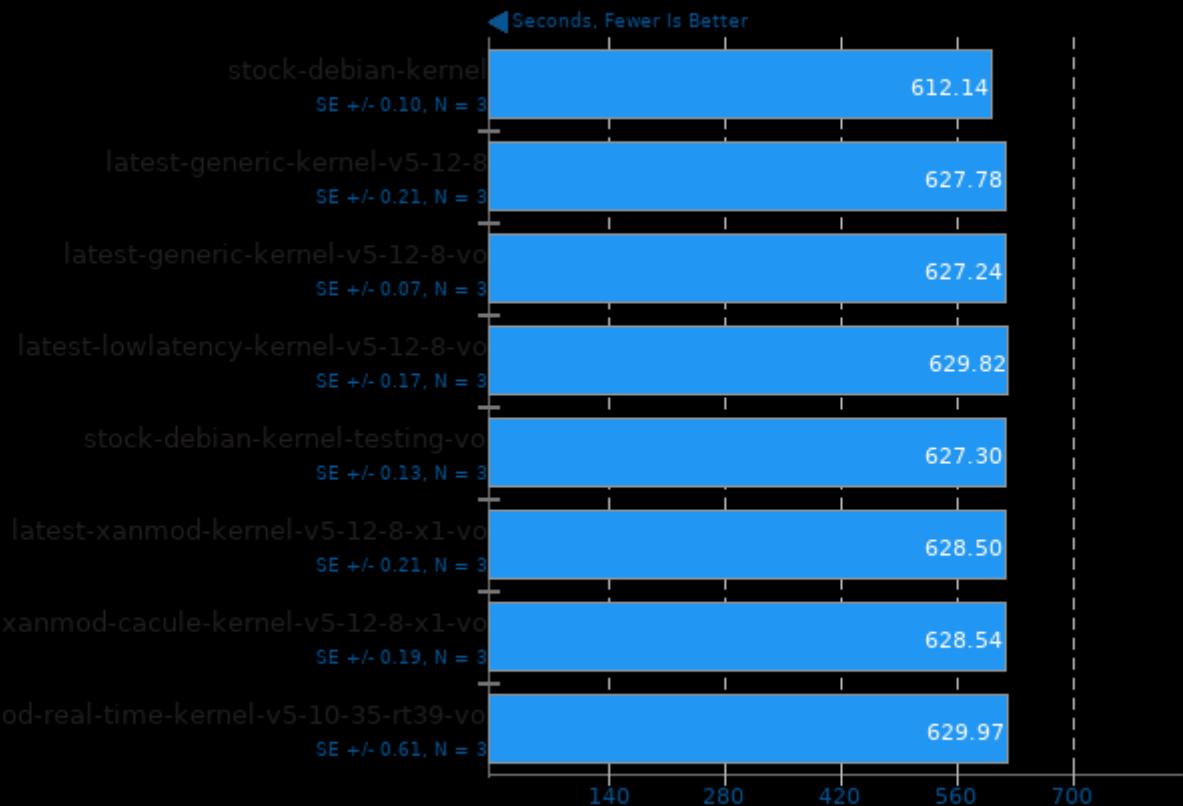
Timed PHP Compilation 7.4.2

Time To Compile



C-Ray 1.1

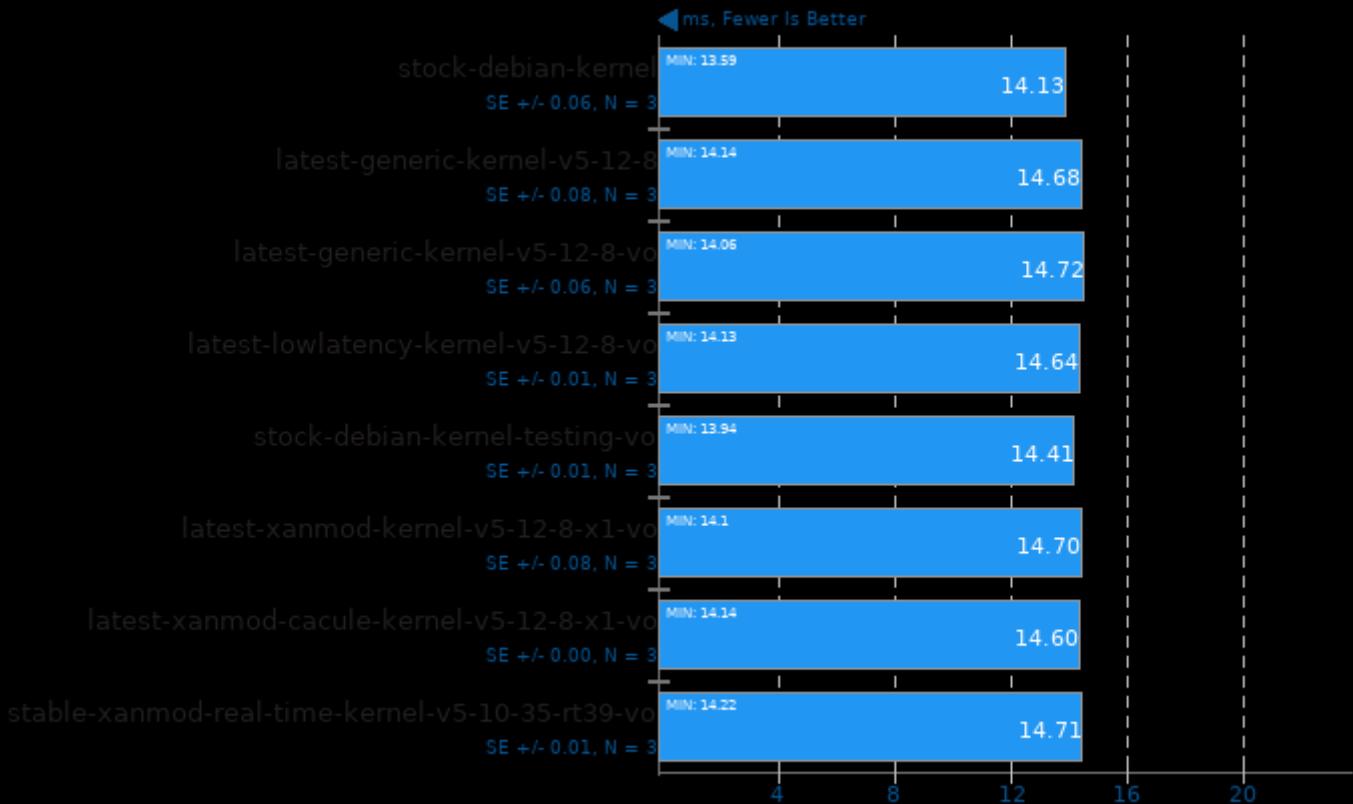
Total Time - 4K, 16 Rays Per Pixel



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

oneDNN 2.1.2

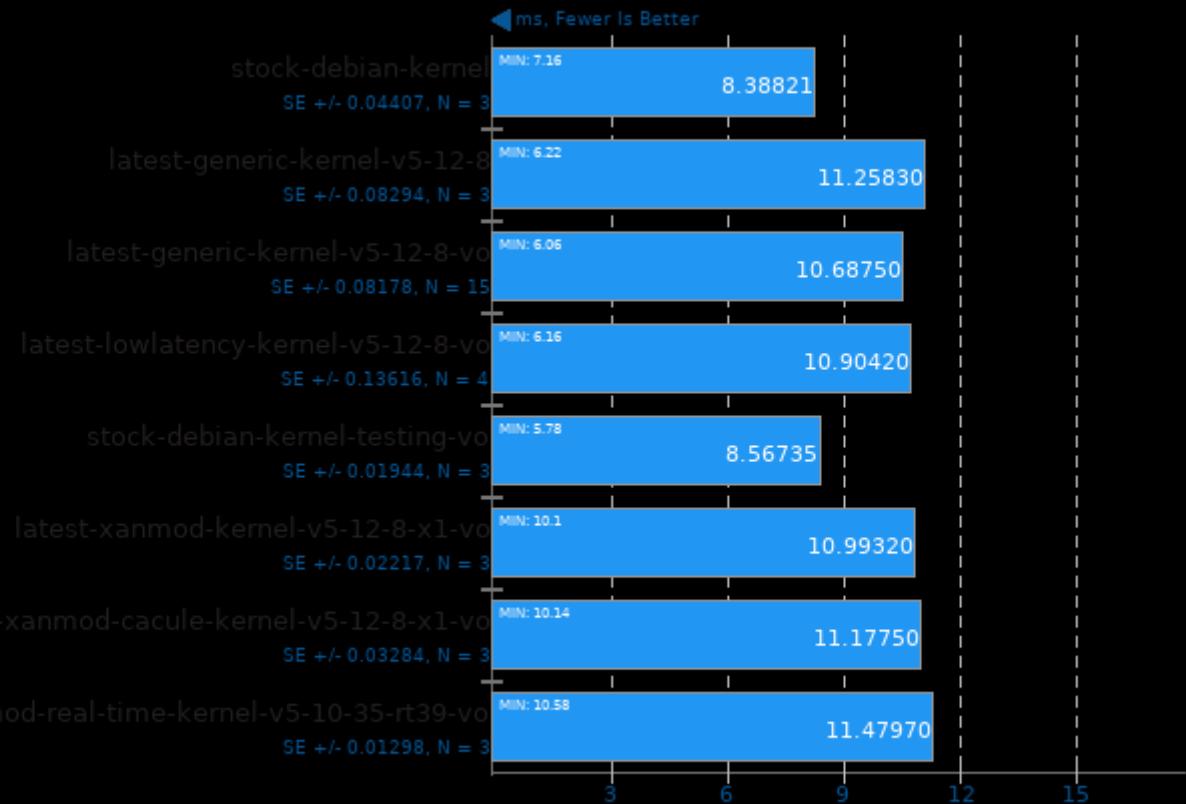
Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

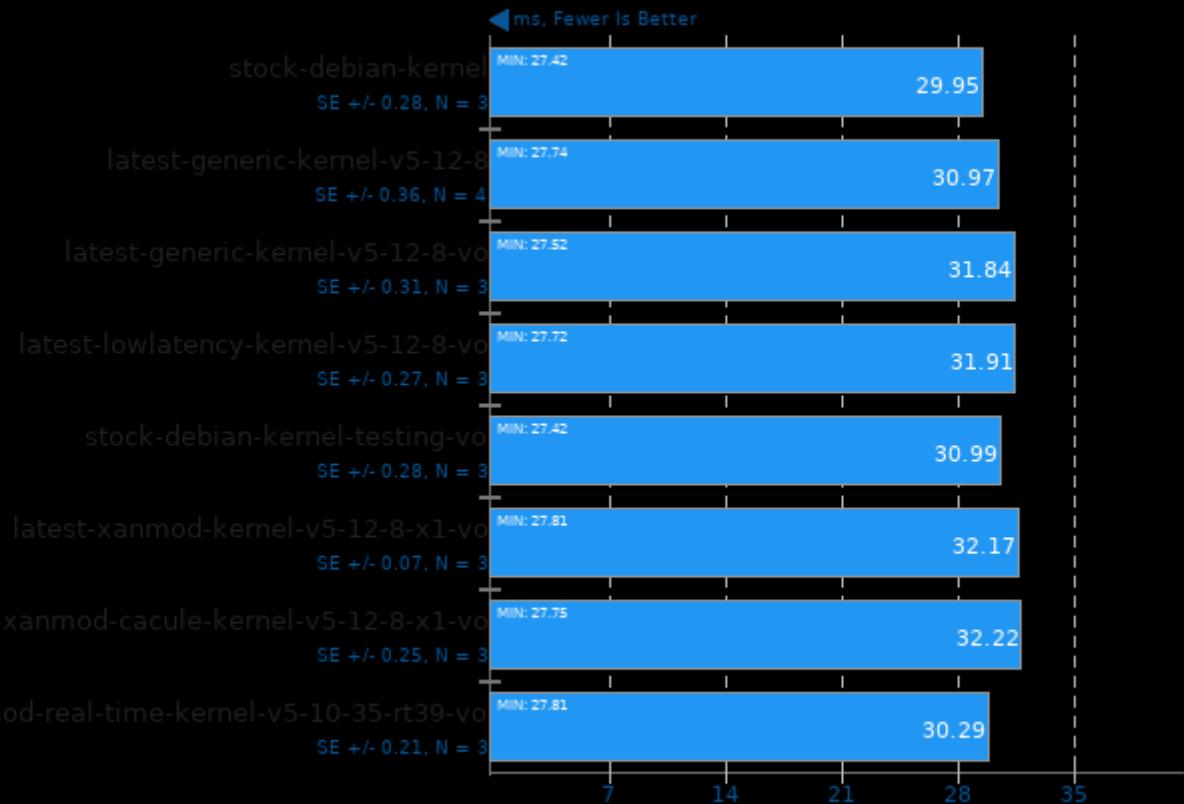
Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

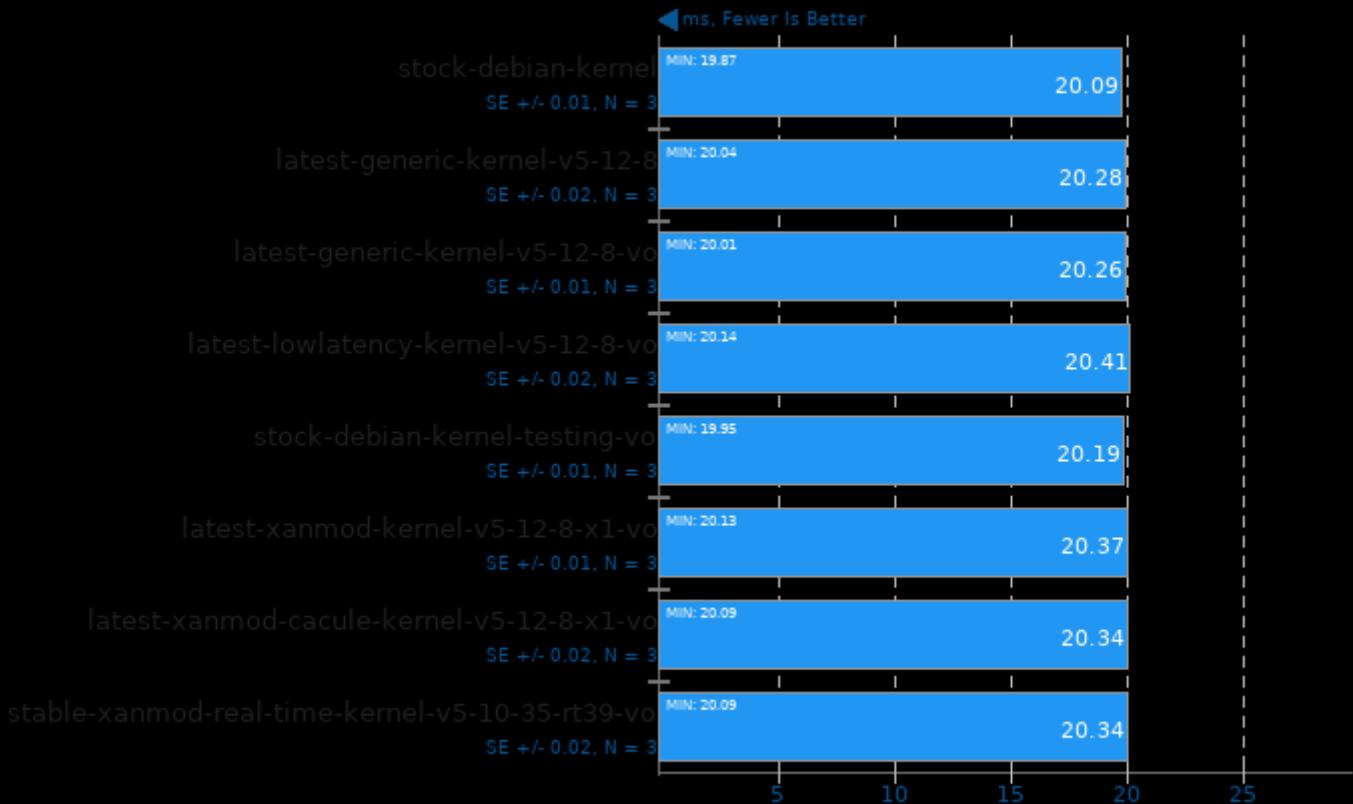
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

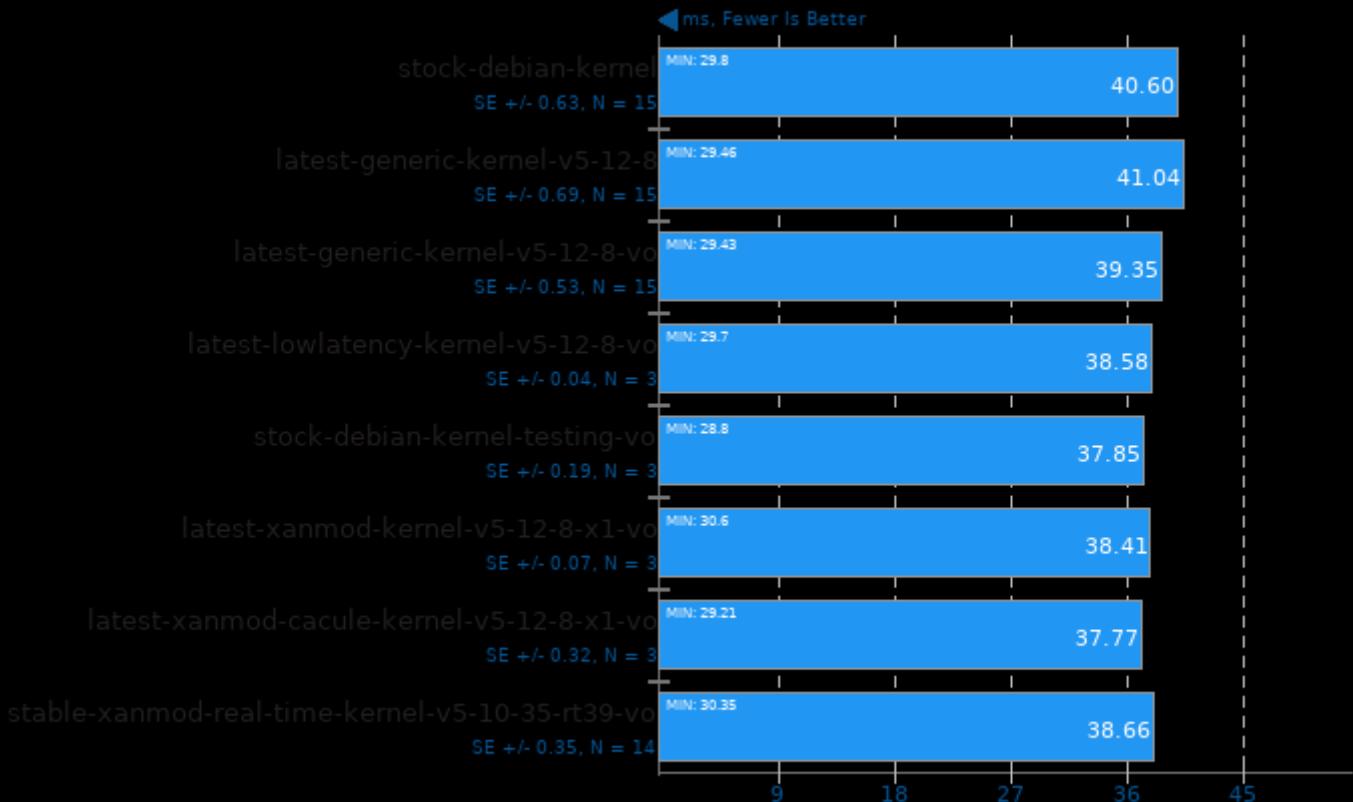
Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

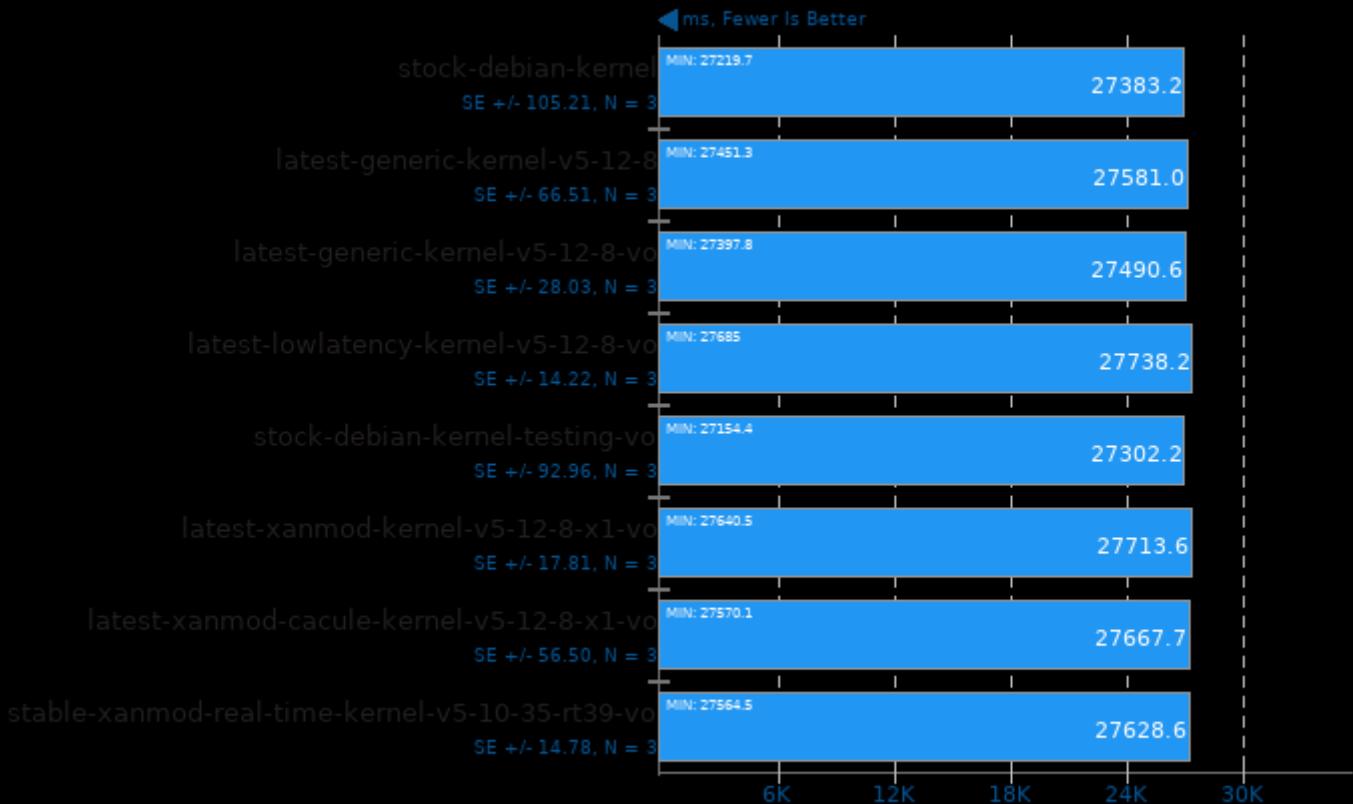
Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

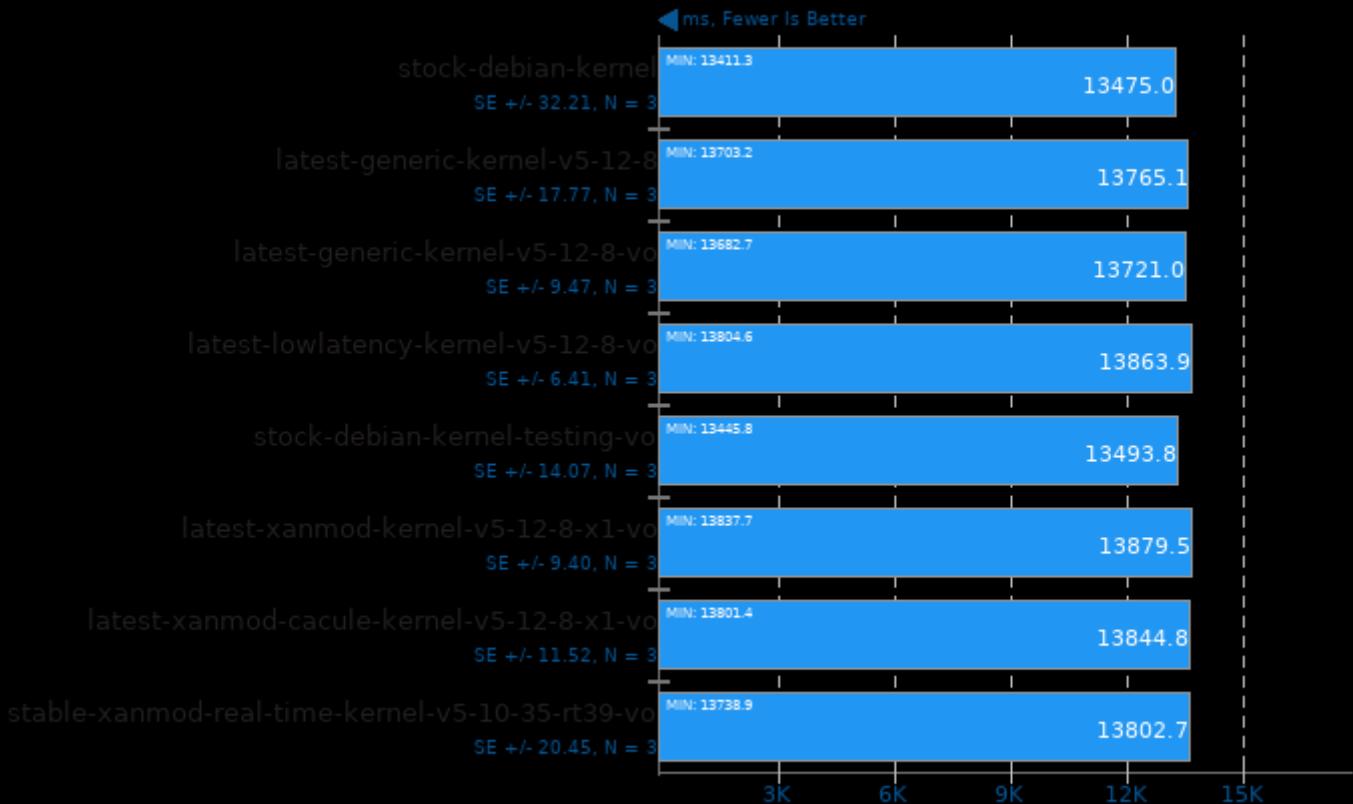
Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.1.2

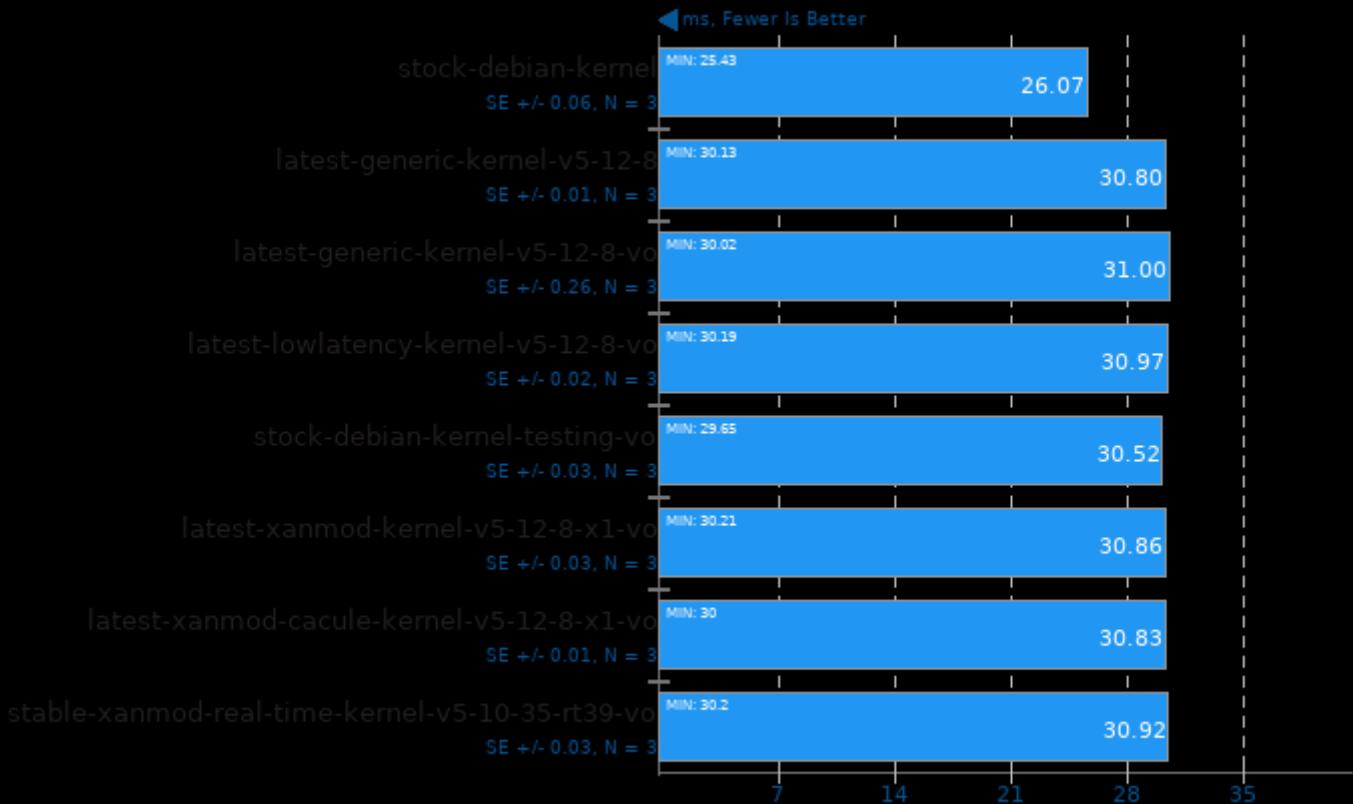
Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

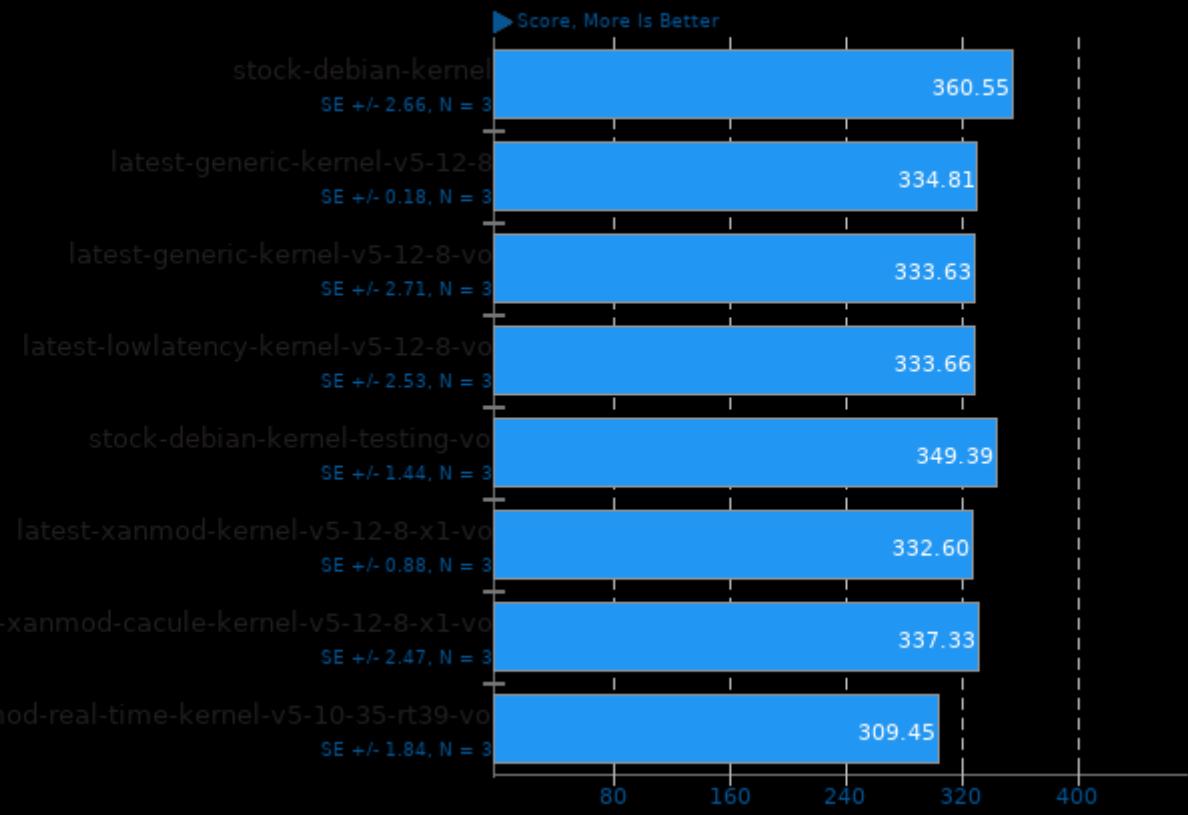
oneDNN 2.1.2

Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



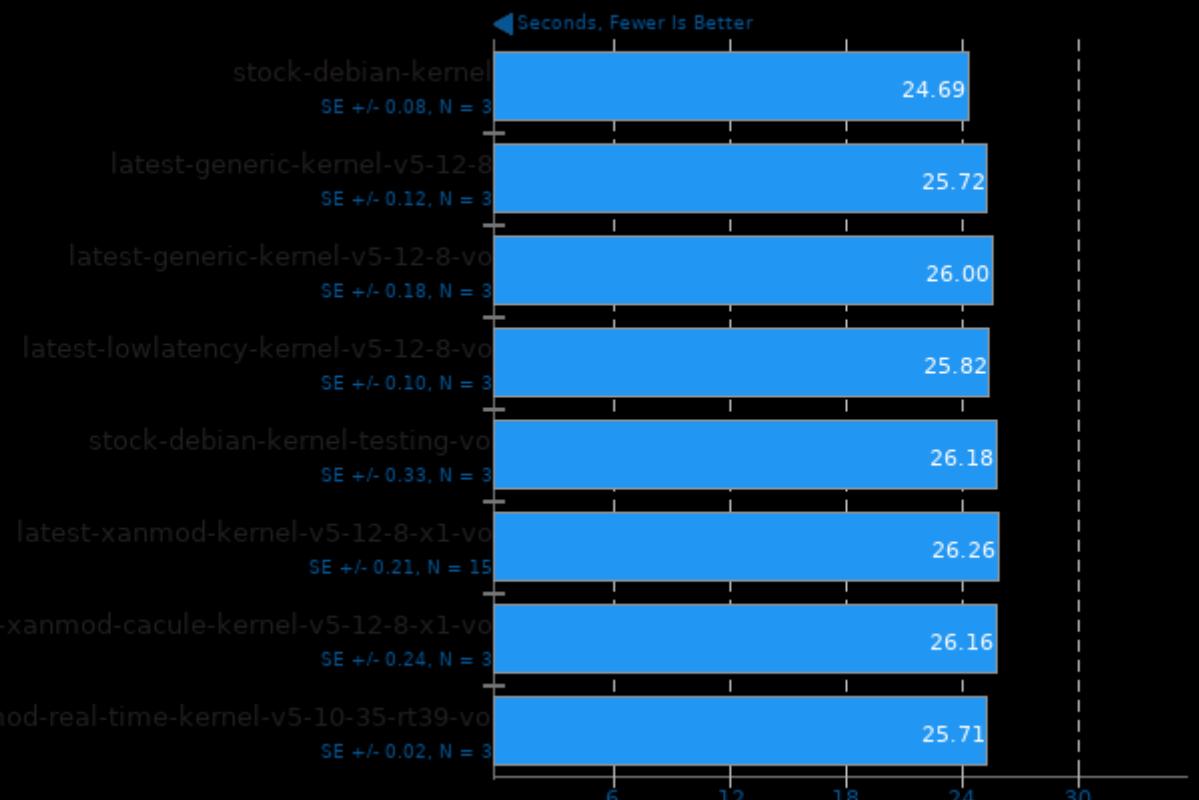
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

Numpy Benchmark



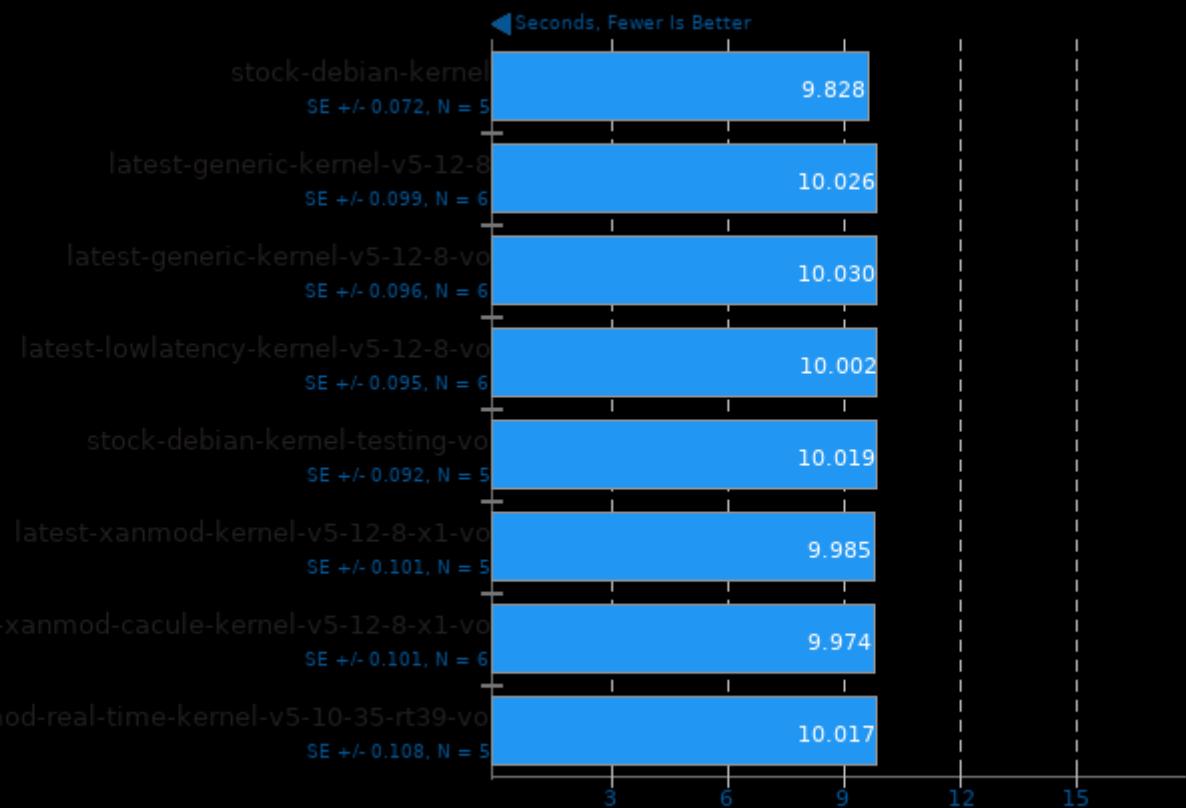
Cython Benchmark 0.29.21

Test: N-Queens



Opus Codec Encoding 1.3.1

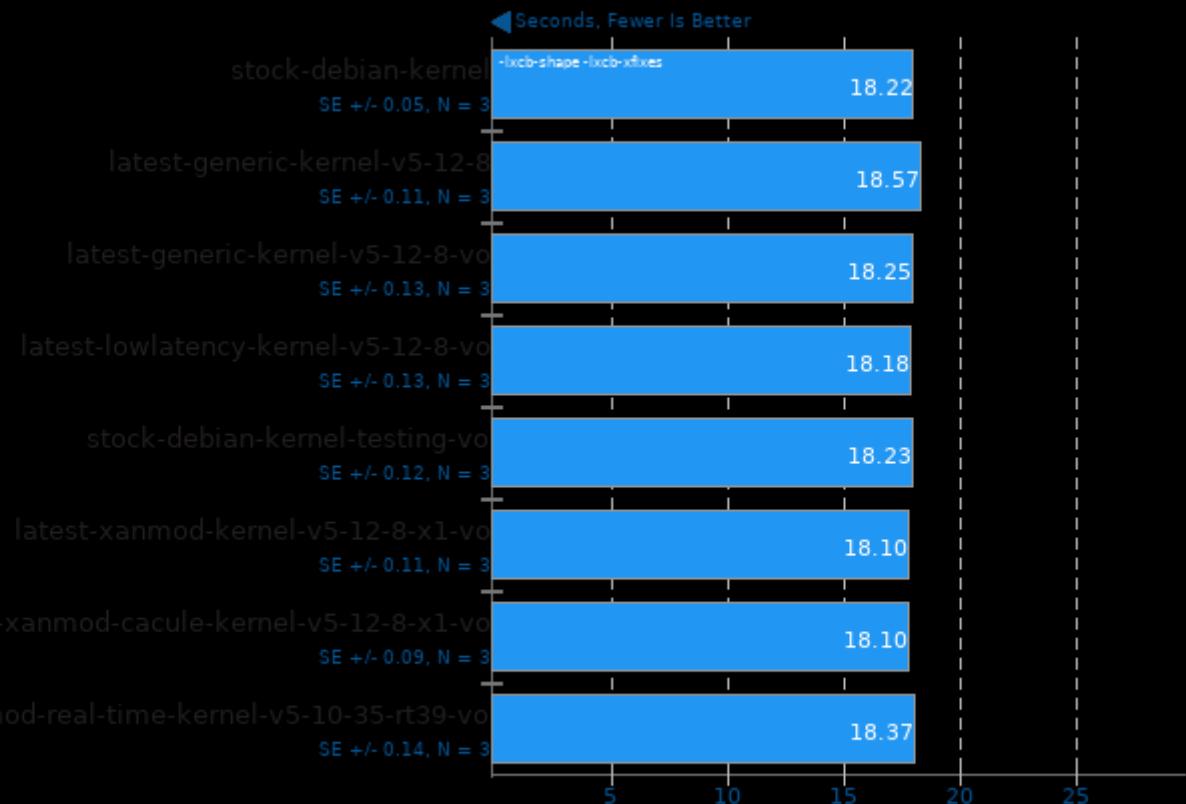
WAV To Opus Encode



1. (CXX) g++ options: -fvisibility=hidden -logg -lm

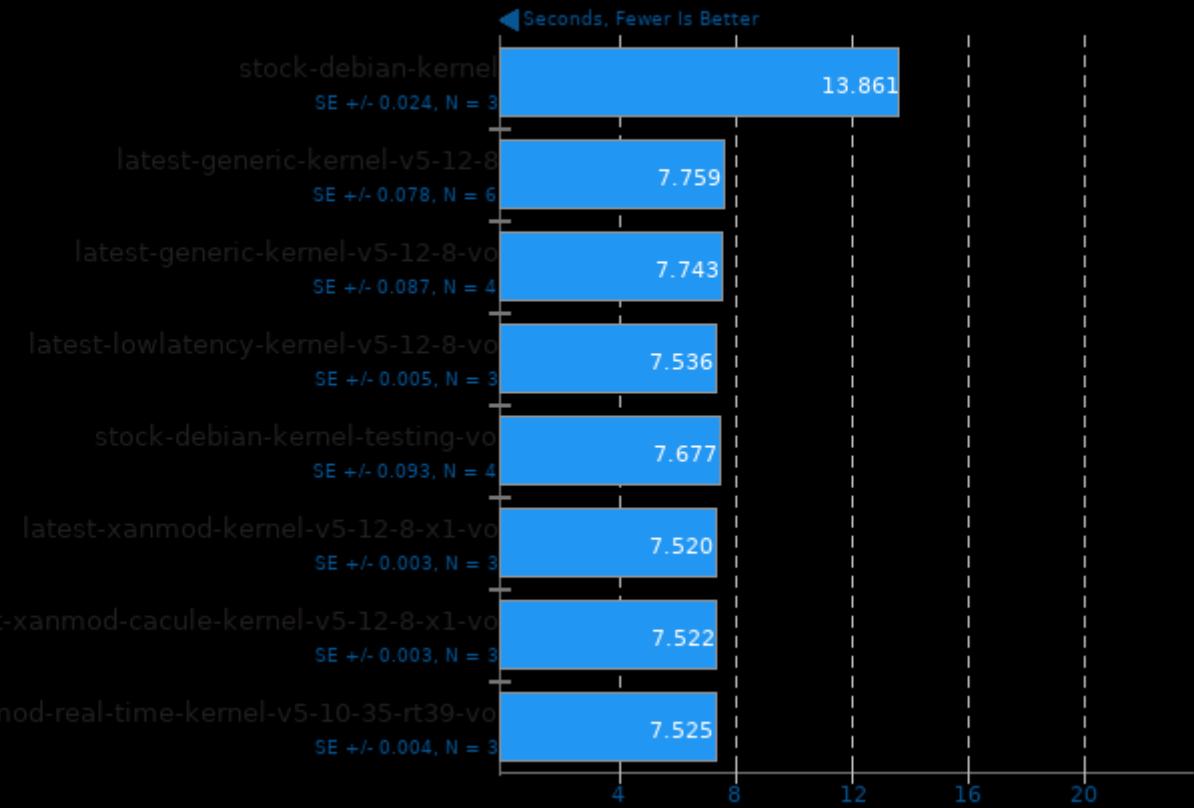
FFmpeg 4.0.2

H.264 HD To NTSC DV



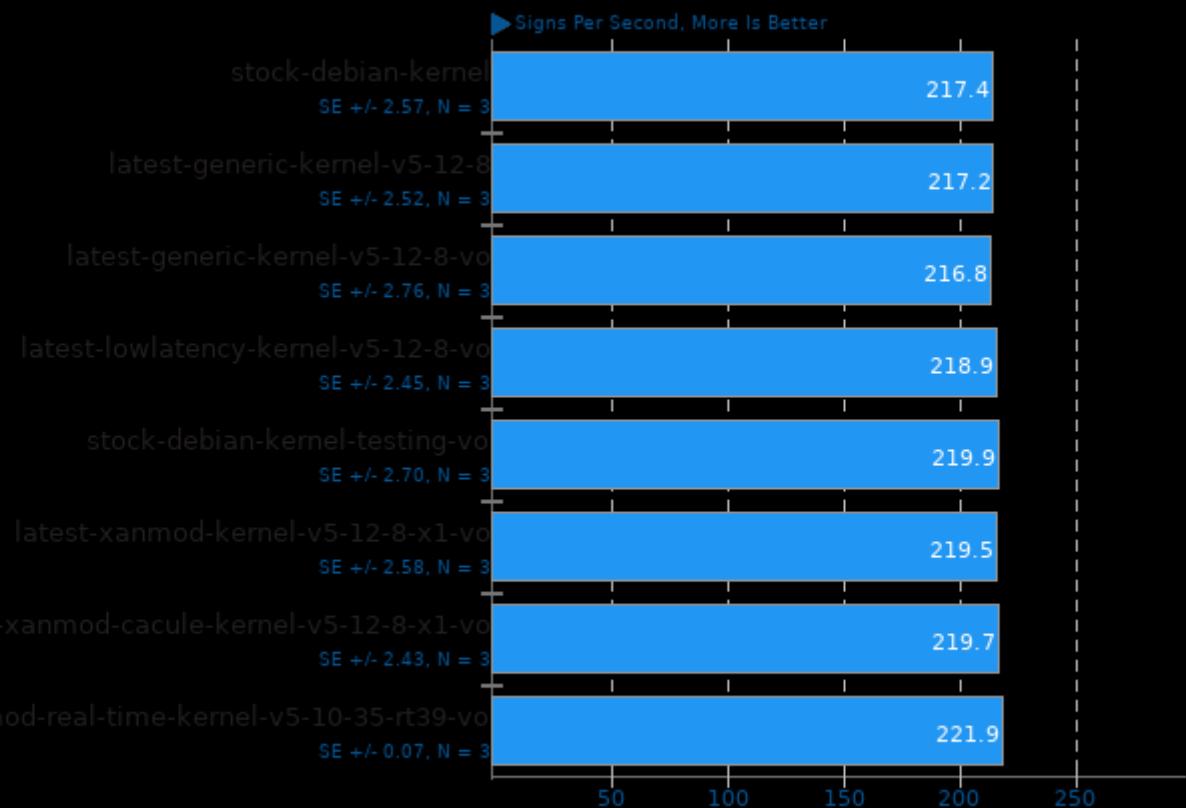
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lwscale -lavutil -lm -lxcb -pthread -lbz2 -lizma -std=c11 -fomit-frame-pointe

Sample Pi Program



OpenSSL 1.1.1

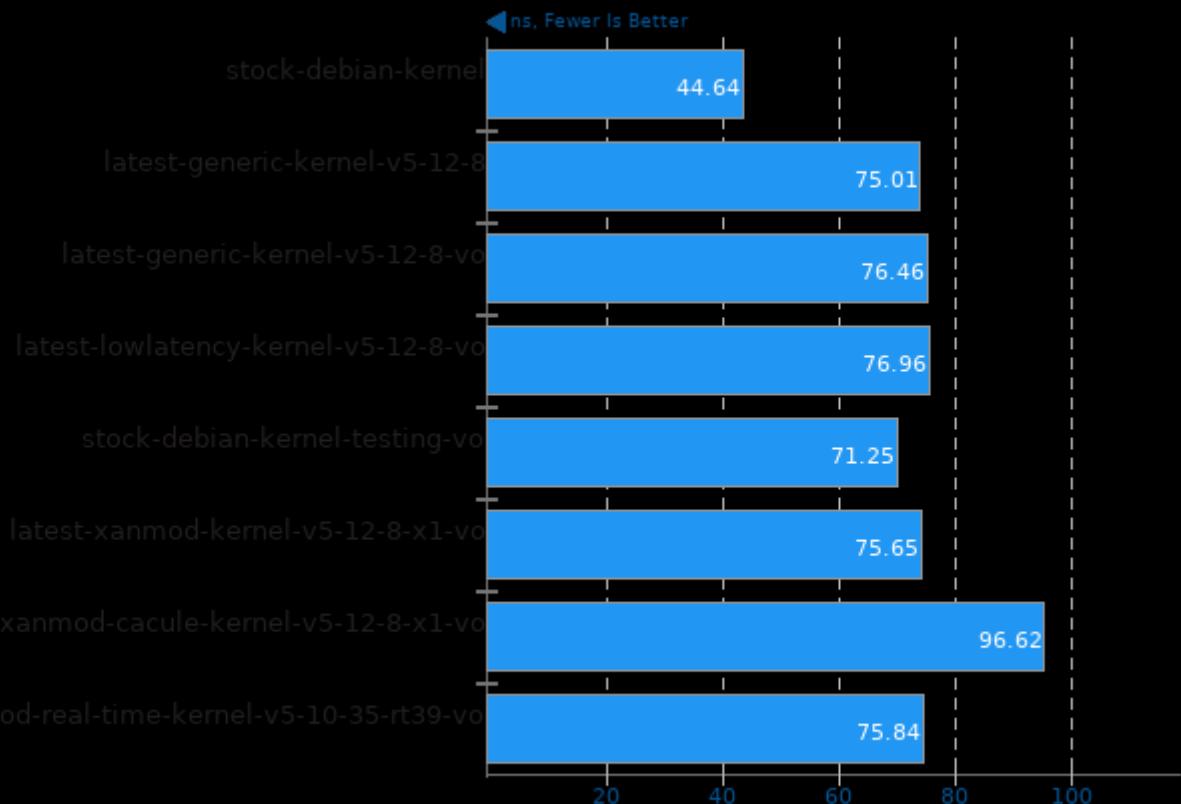
RSA 4096-bit Performance



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

Core-Latency

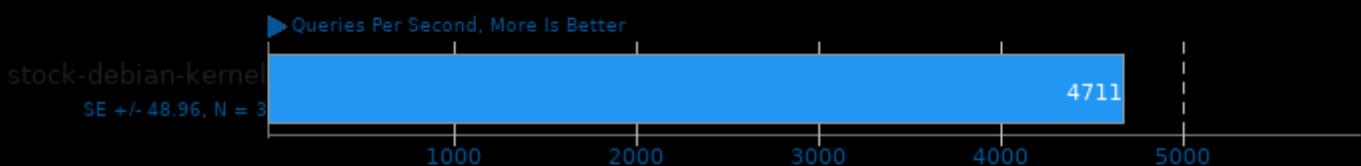
Average Latency Between CPU Cores



1. (CXX) g++ options: -std=c++11 -pthread -O3

MariaDB 10.5.2

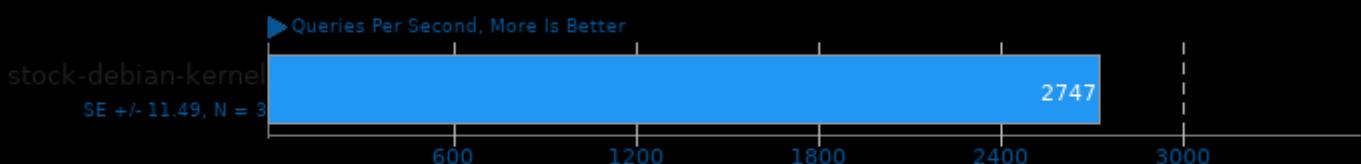
Clients: 1



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -pthread -llzma -lbz2 -lsnappy -laio -l numa -lcrypt -lz -lm -lssl -lcrypto -ldl

MariaDB 10.5.2

Clients: 4

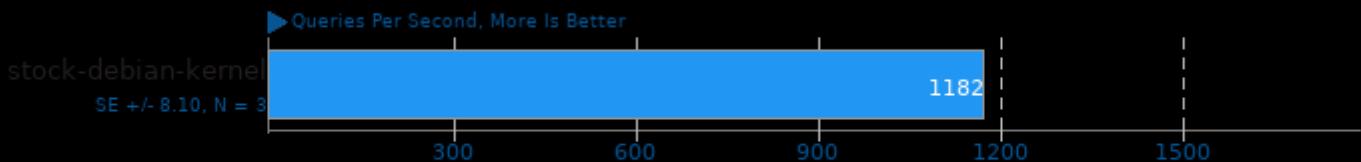


1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -pthread -llzma -lbz2 -lsnappy -laio -l numa -lcrypt -lz -lm -lssl -lcrypto -ldl

stock-debian-kernel

MariaDB 10.5.2

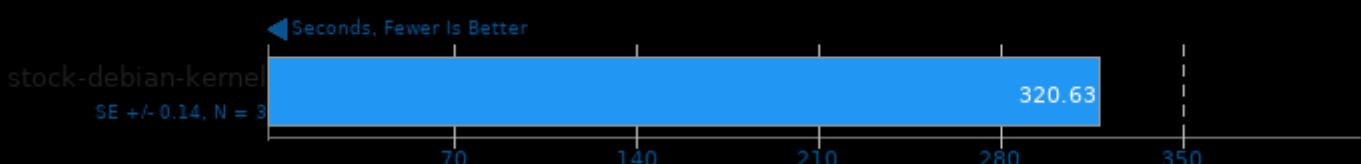
Clients: 16



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -pthread -llzma -lbz2 -lsnappy -laio -lnuma -lcrypt -lz -lm -lssl -lcrypto -ldl

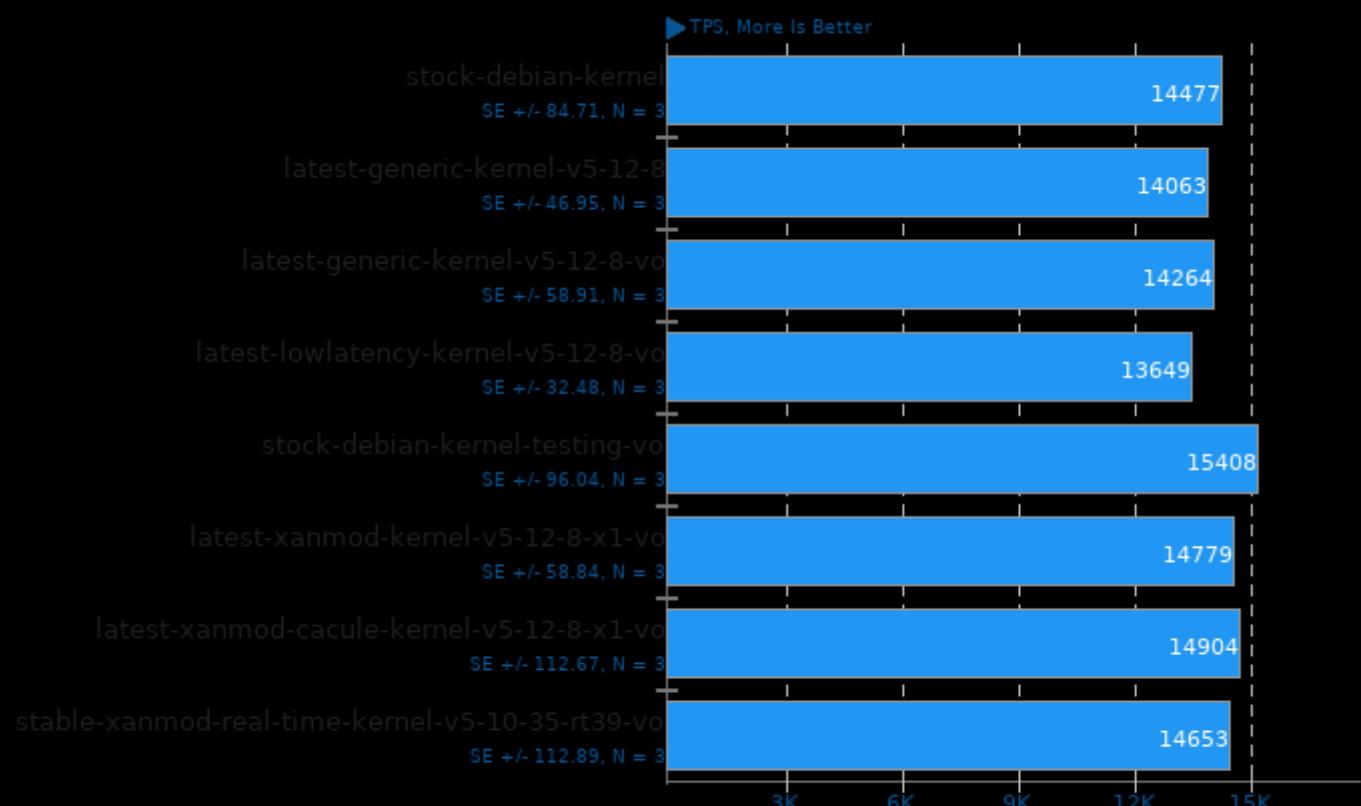
Tensorflow

Build: Cifar10



PostgreSQL pgbench 13.0

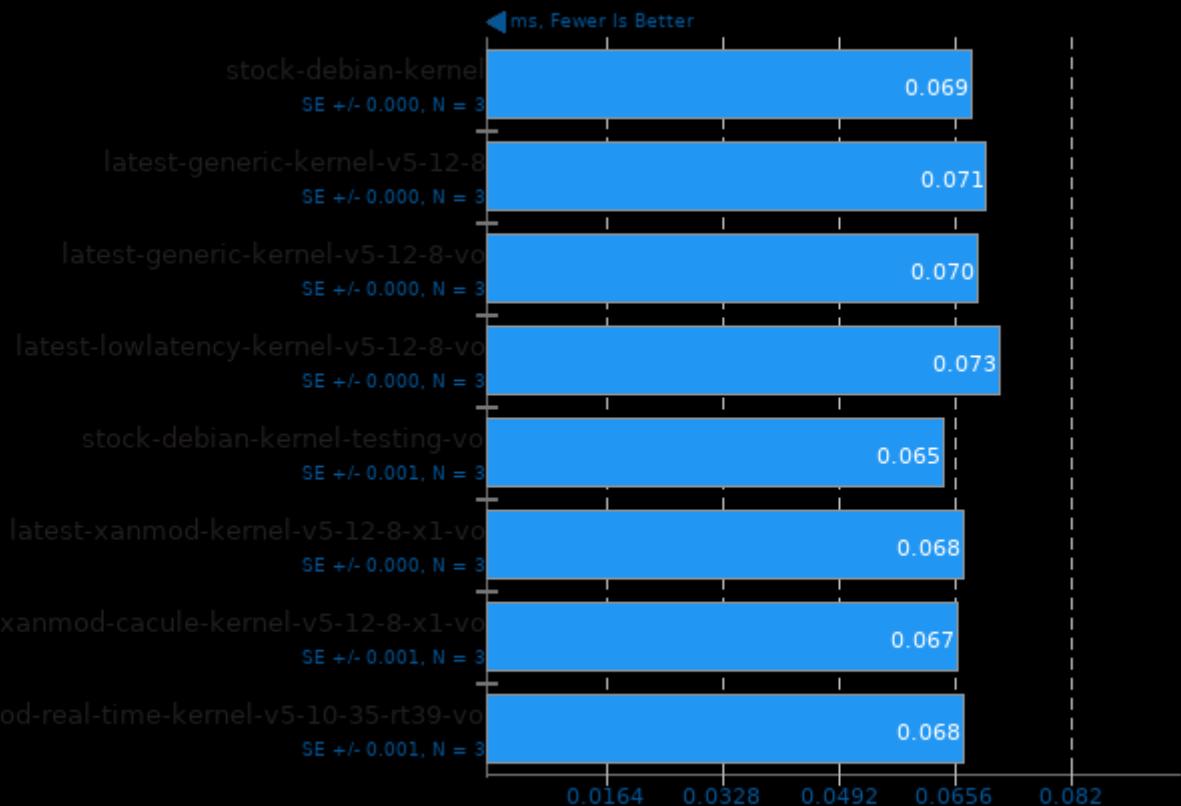
Scaling Factor: 1 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpqcommon -lpqport -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

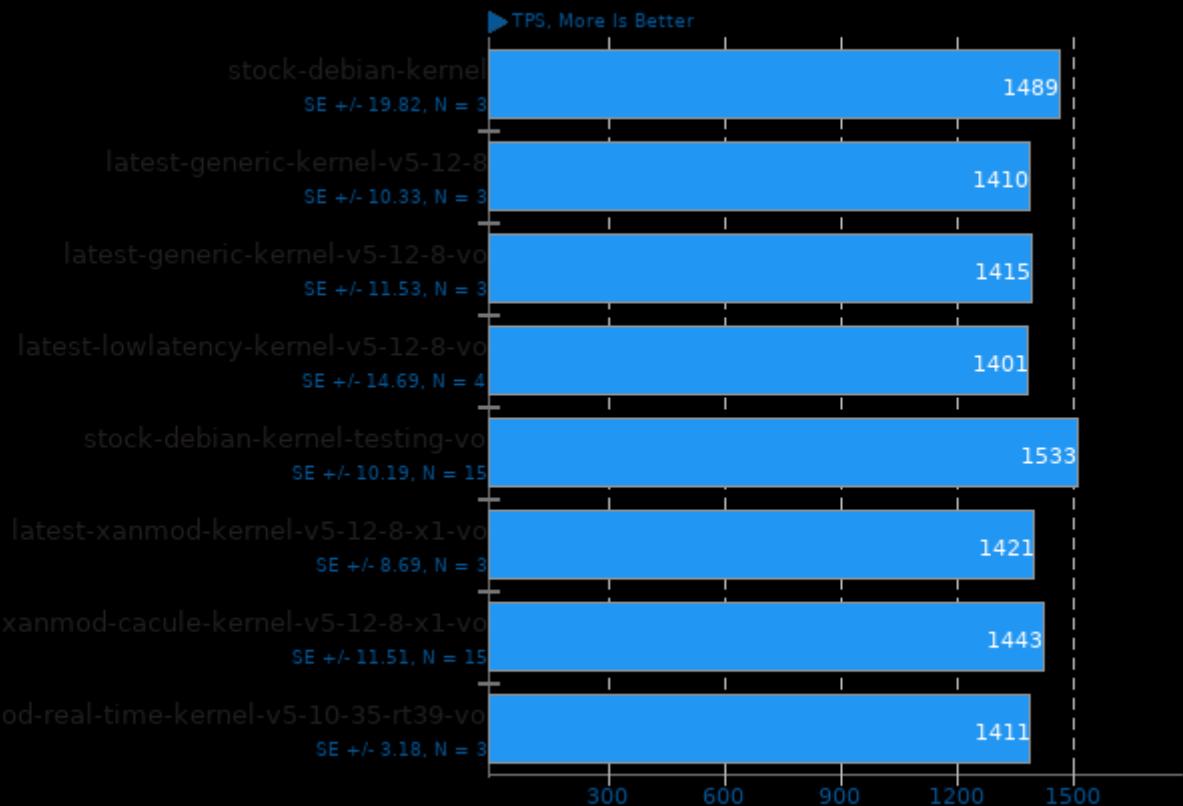
Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

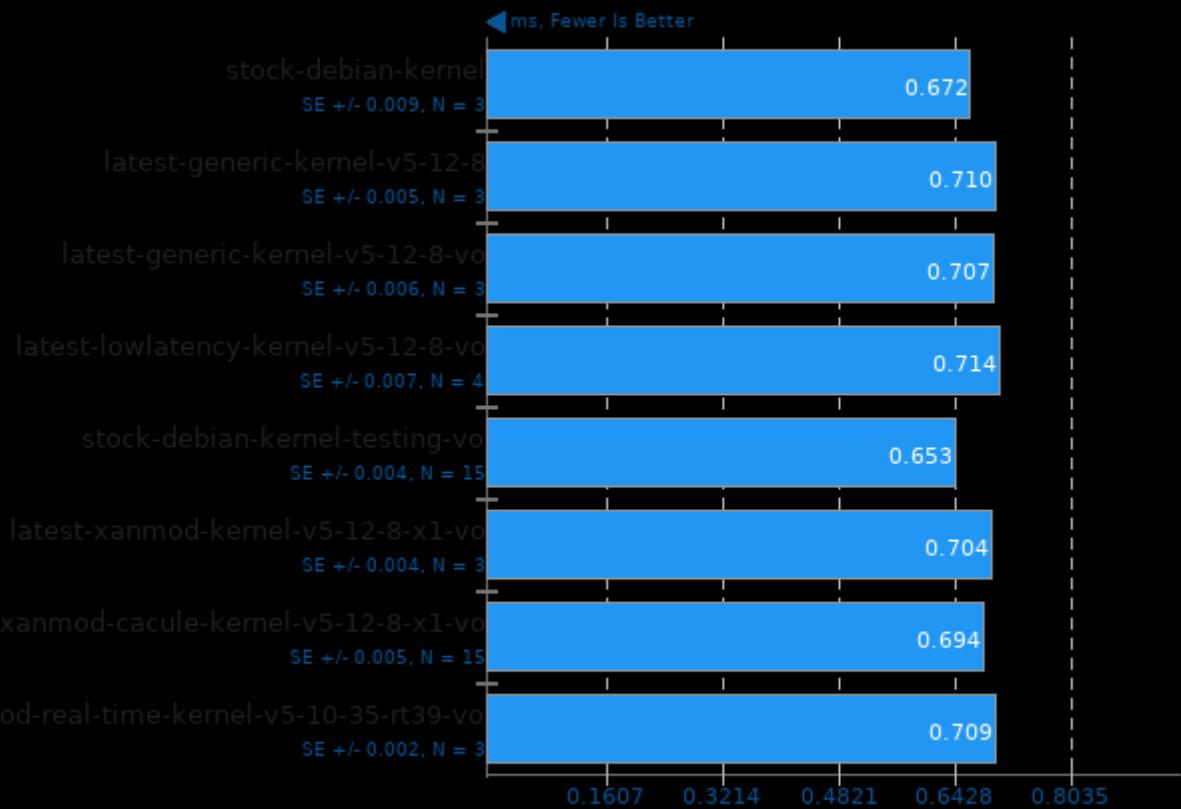
Scaling Factor: 1 - Clients: 1 - Mode: Read Write



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

PostgreSQL pgbench 13.0

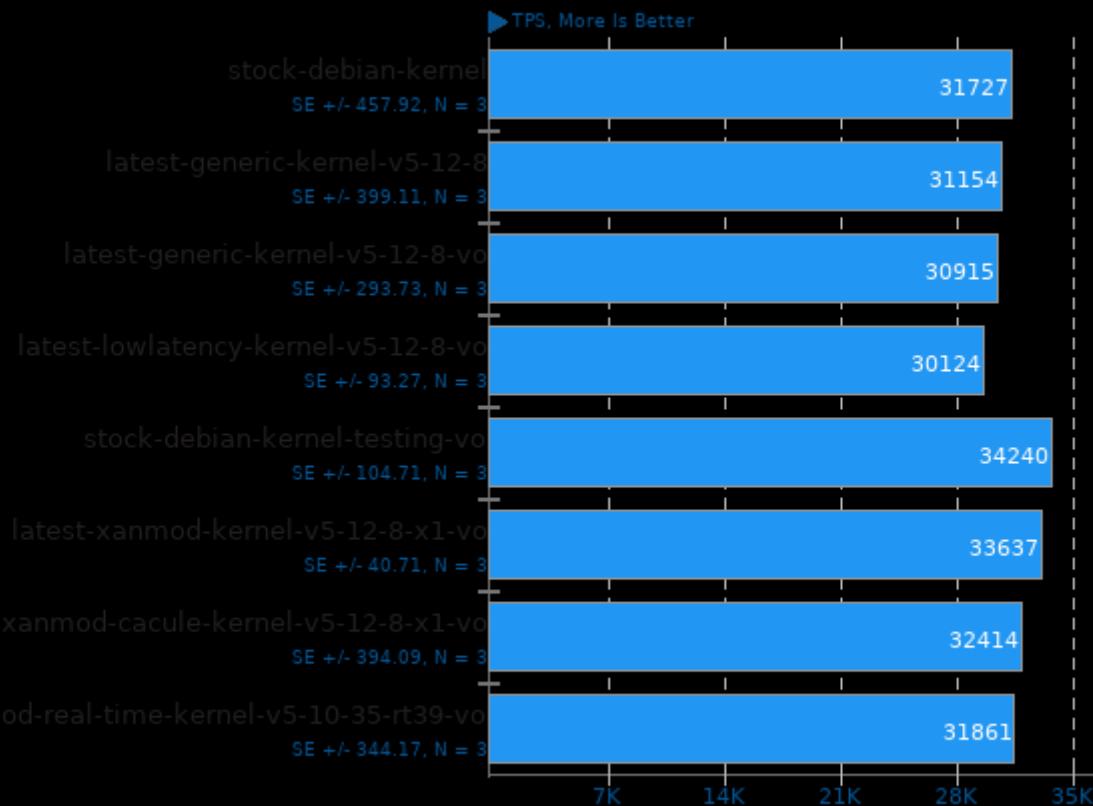
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

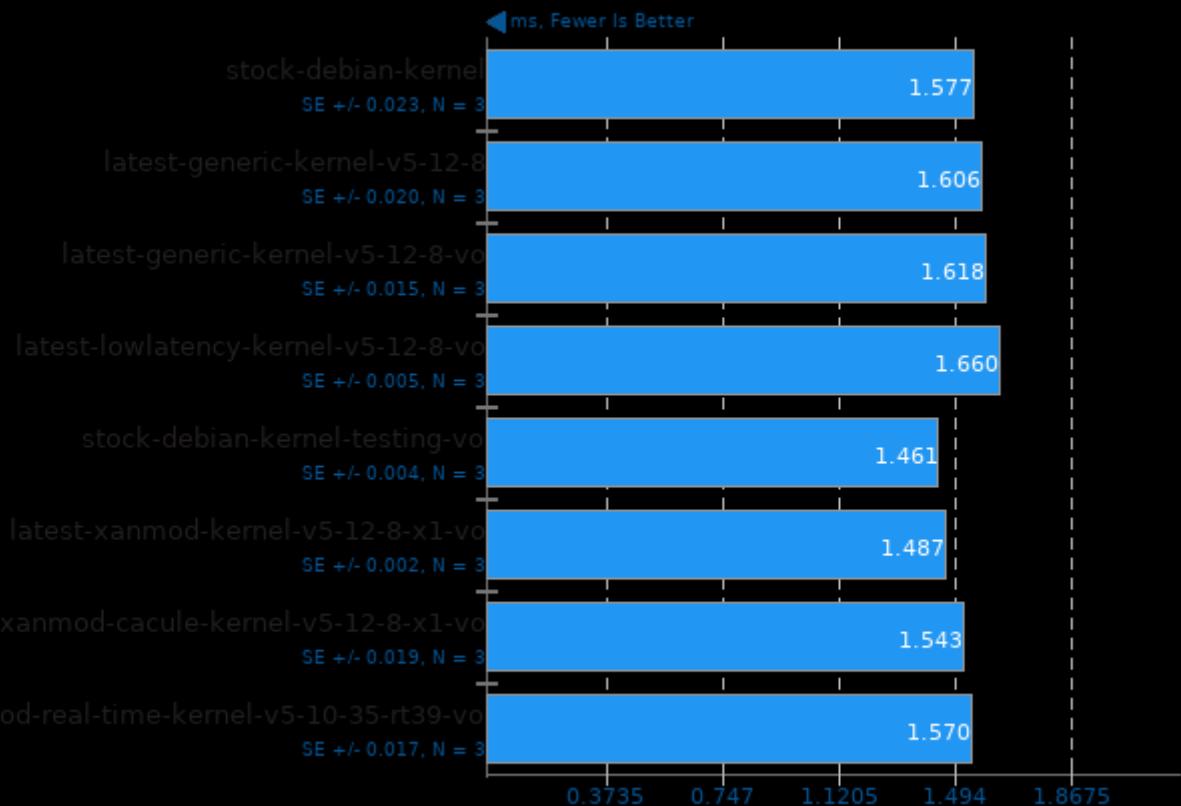
Scaling Factor: 1 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 13.0

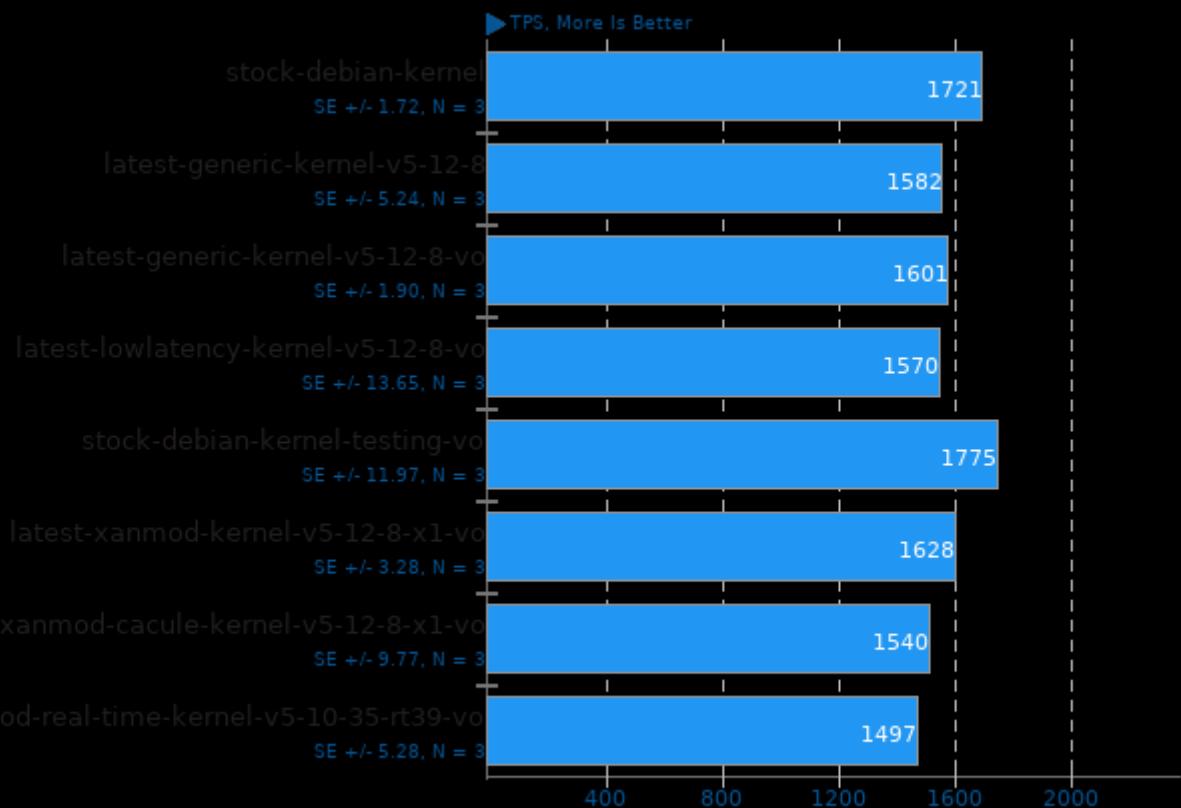
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

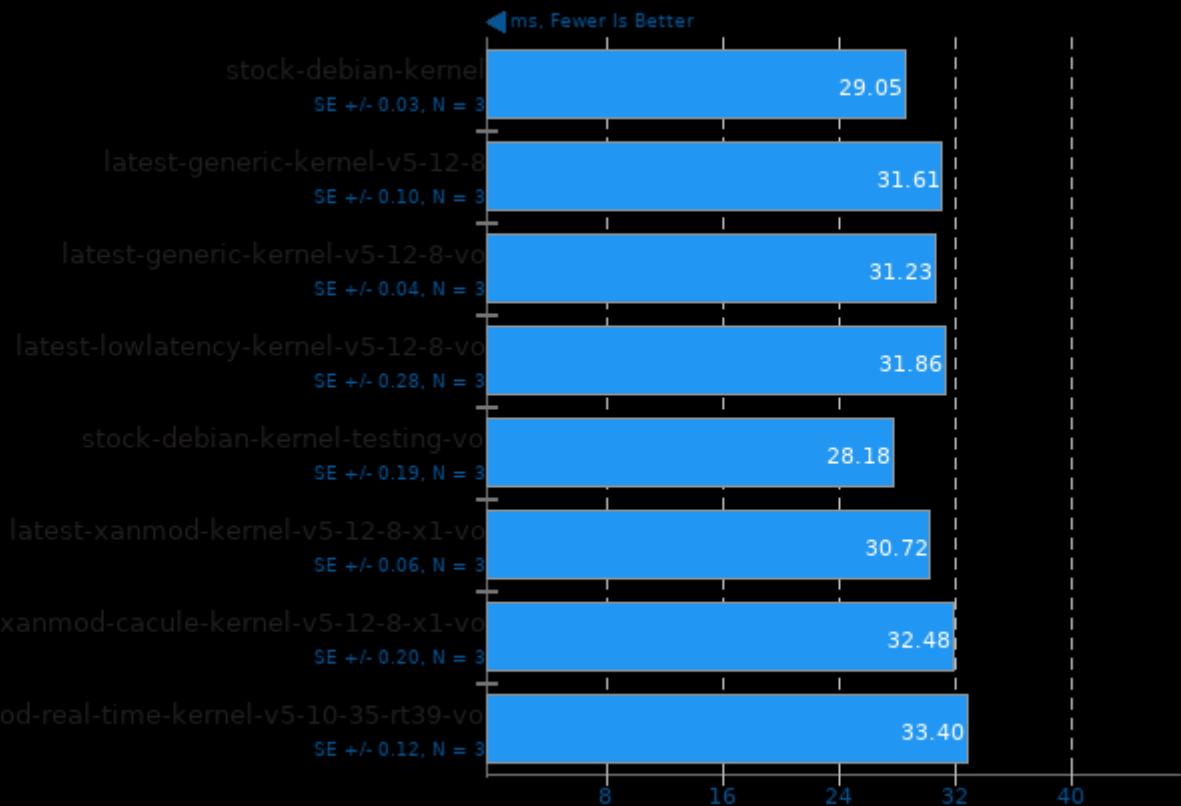
Scaling Factor: 1 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 13.0

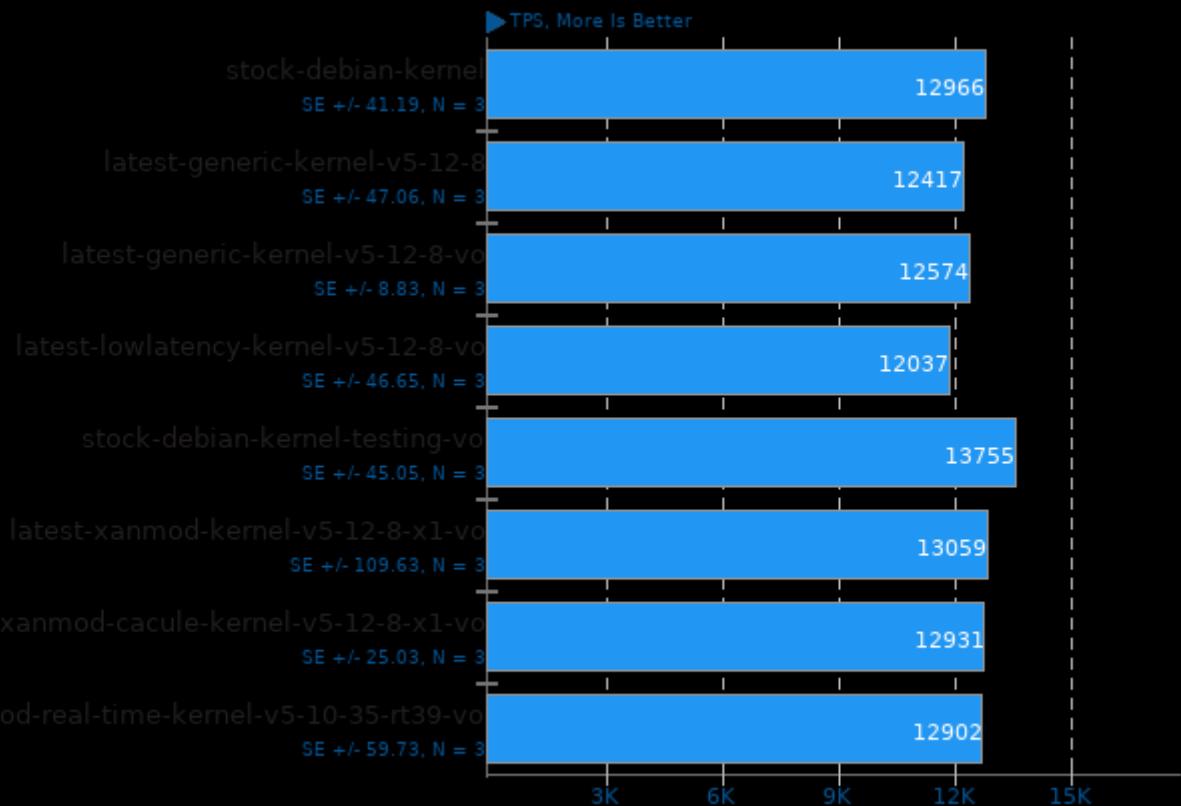
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

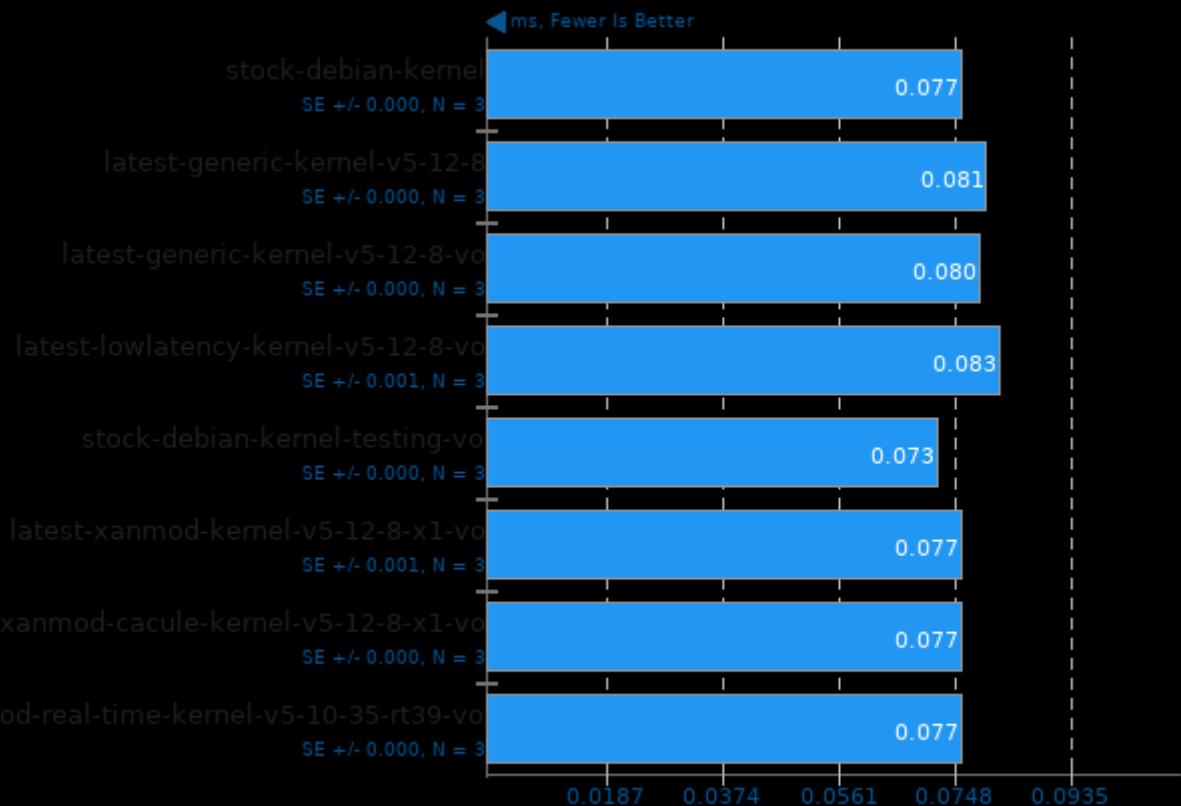
Scaling Factor: 100 - Clients: 1 - Mode: Read Only



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

PostgreSQL pgbench 13.0

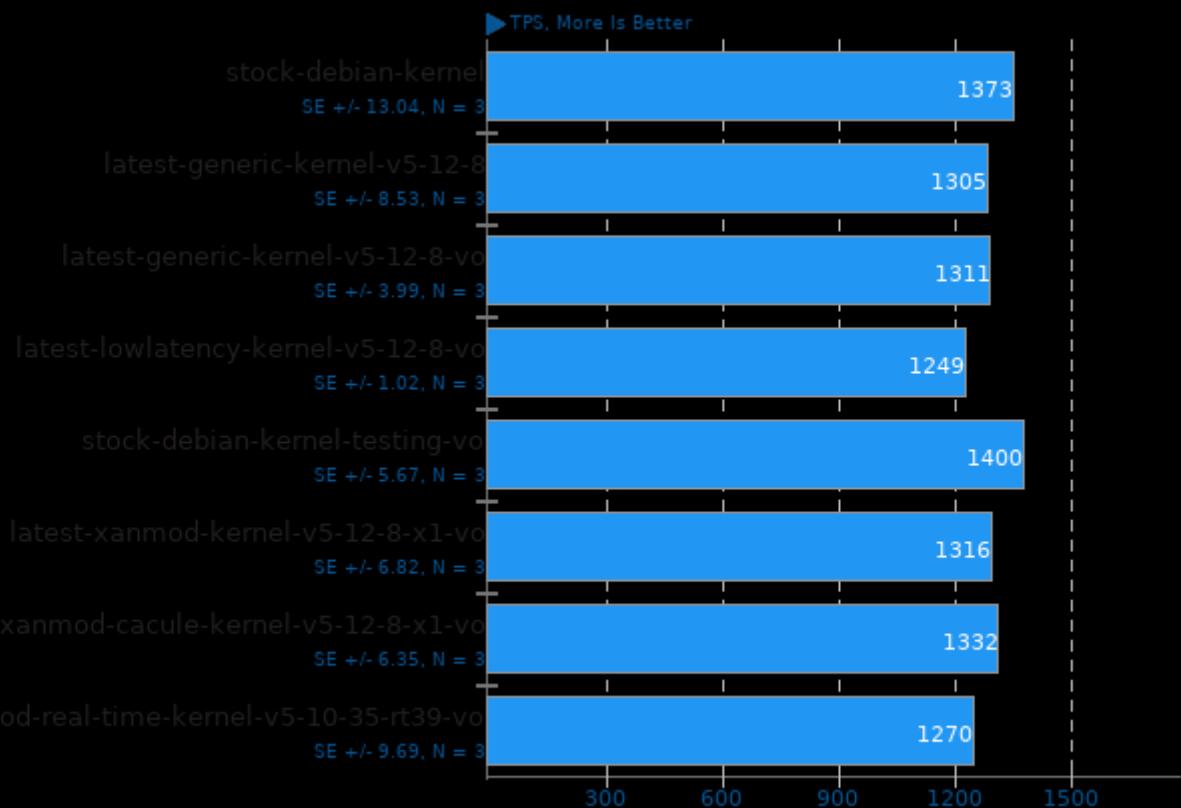
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

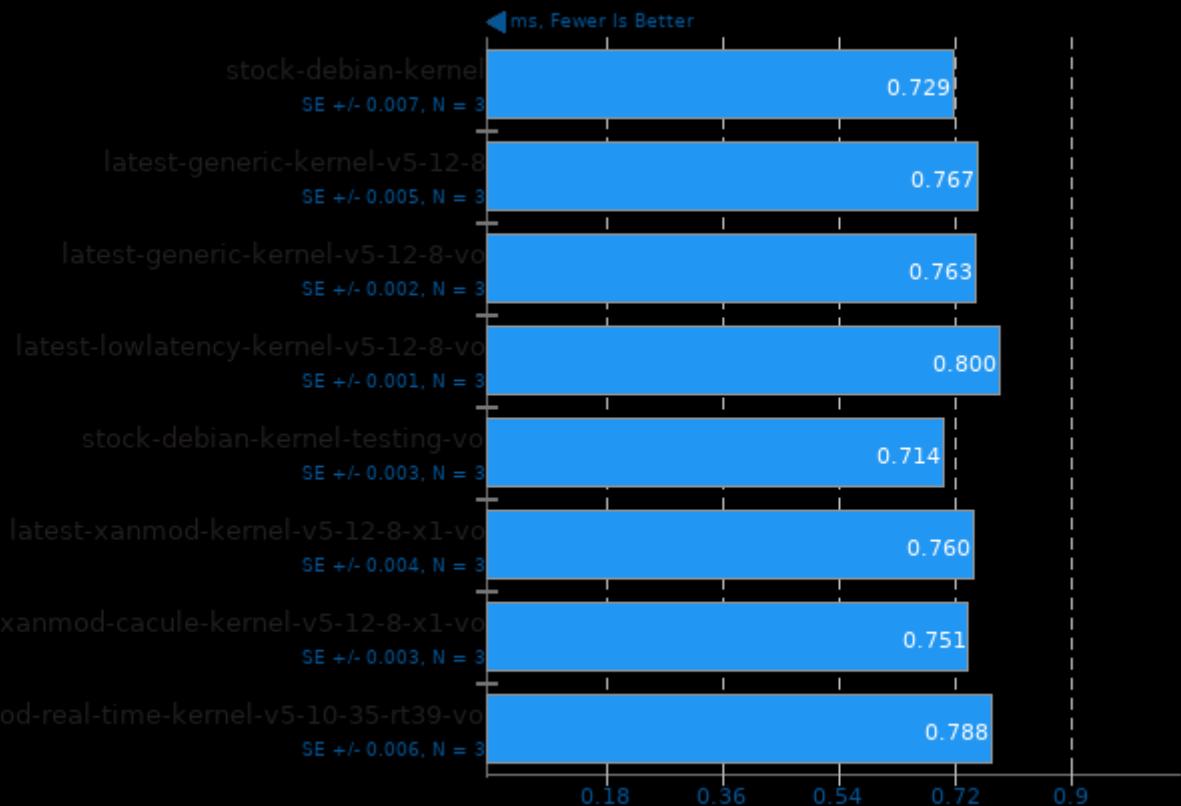
Scaling Factor: 100 - Clients: 1 - Mode: Read Write



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

PostgreSQL pgbench 13.0

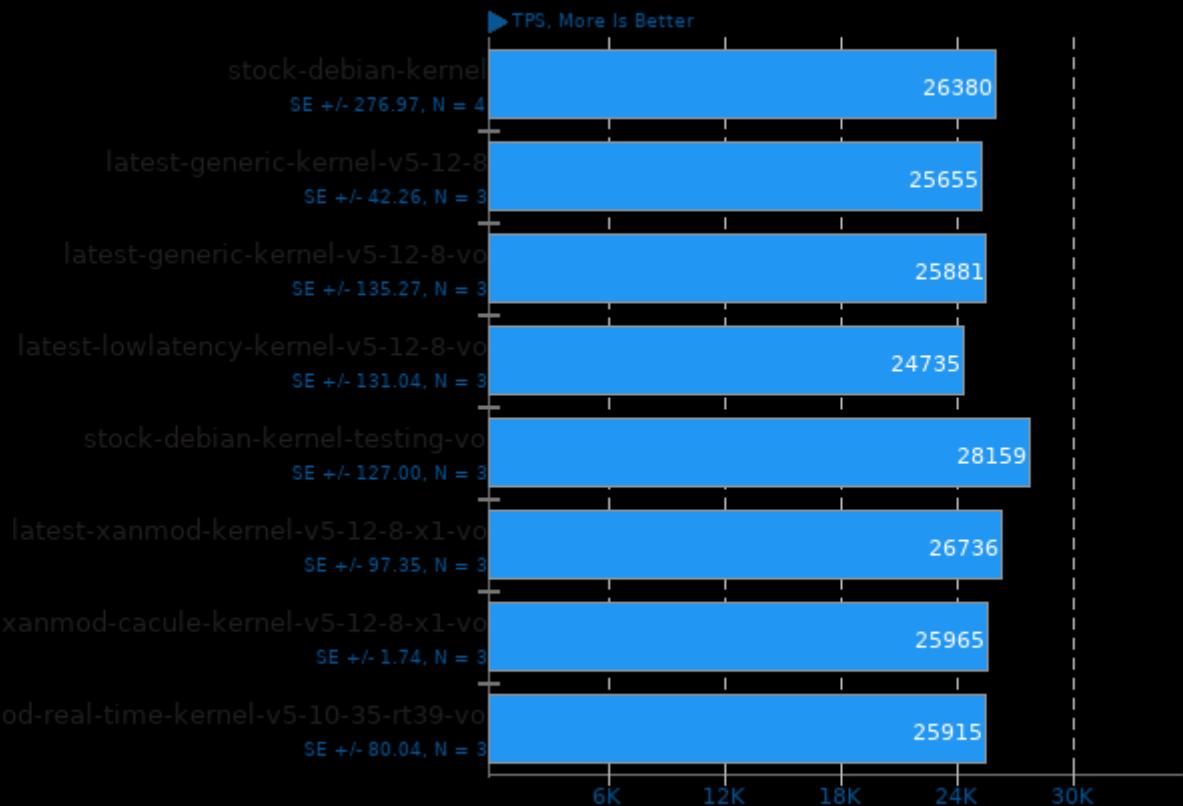
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

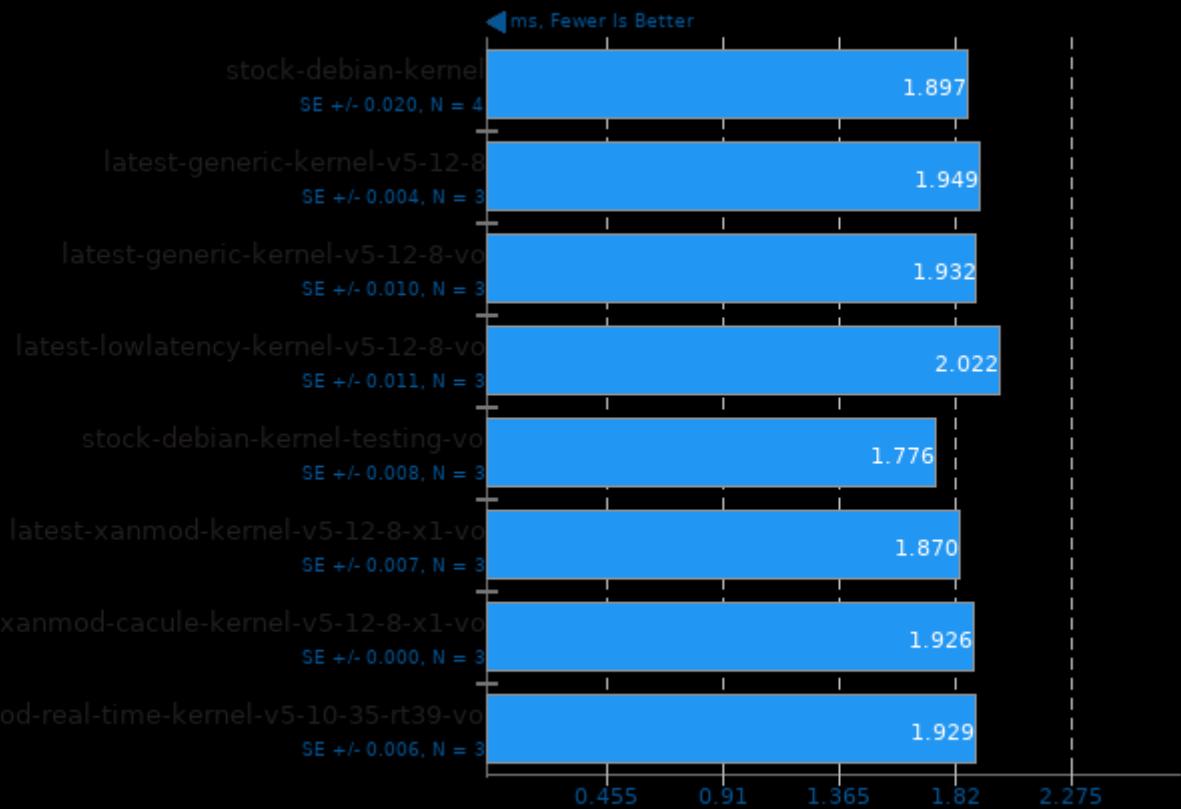
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 13.0

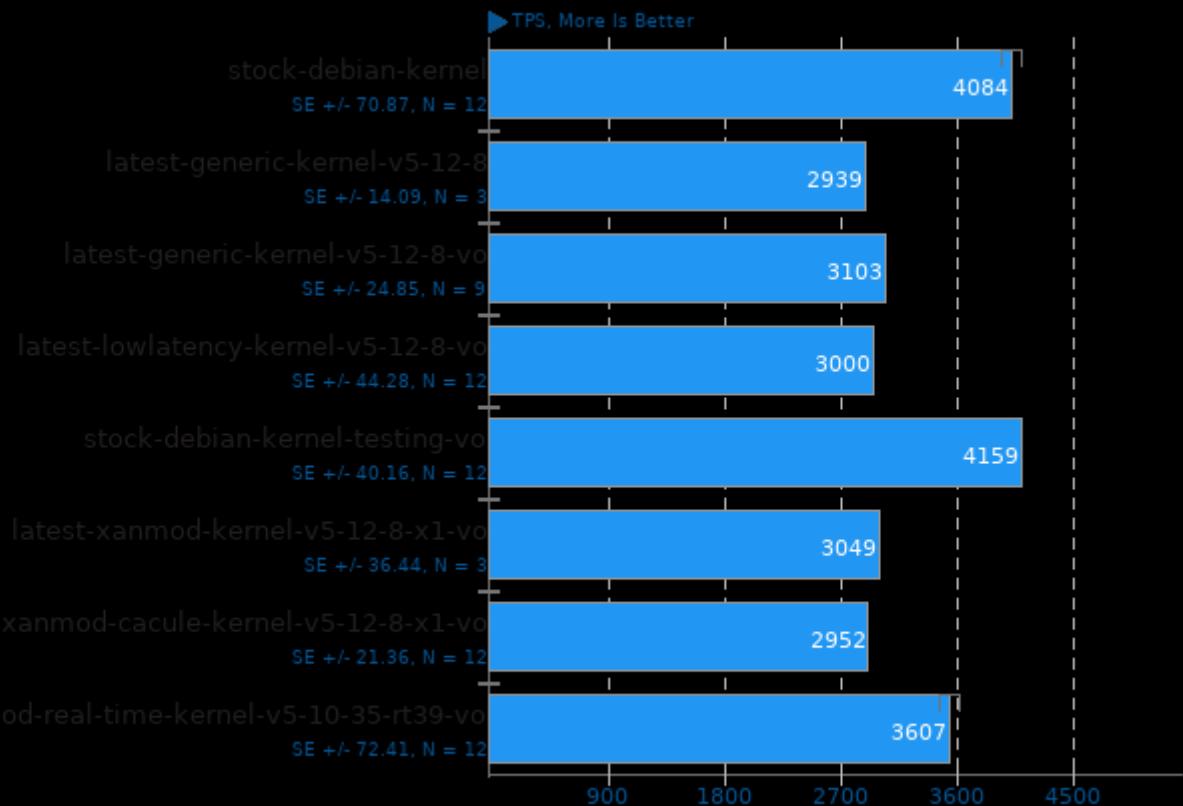
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

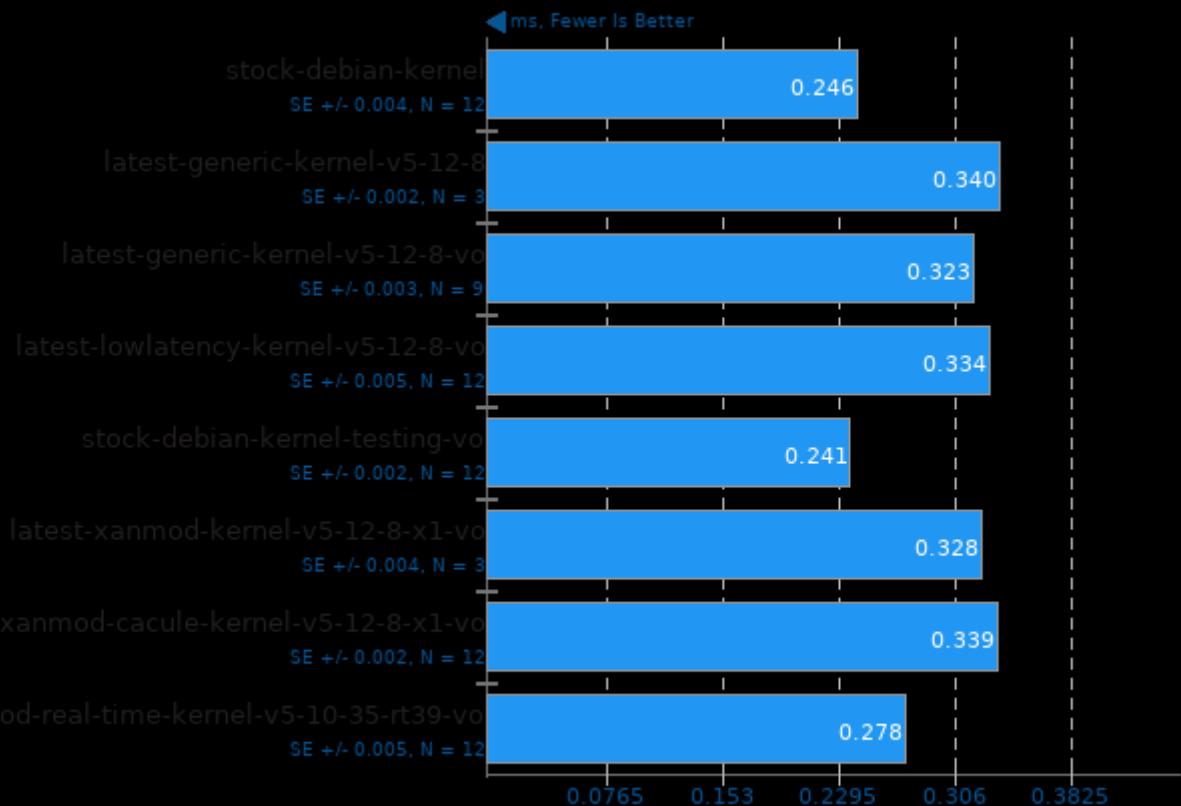
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only



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

PostgreSQL pgbench 13.0

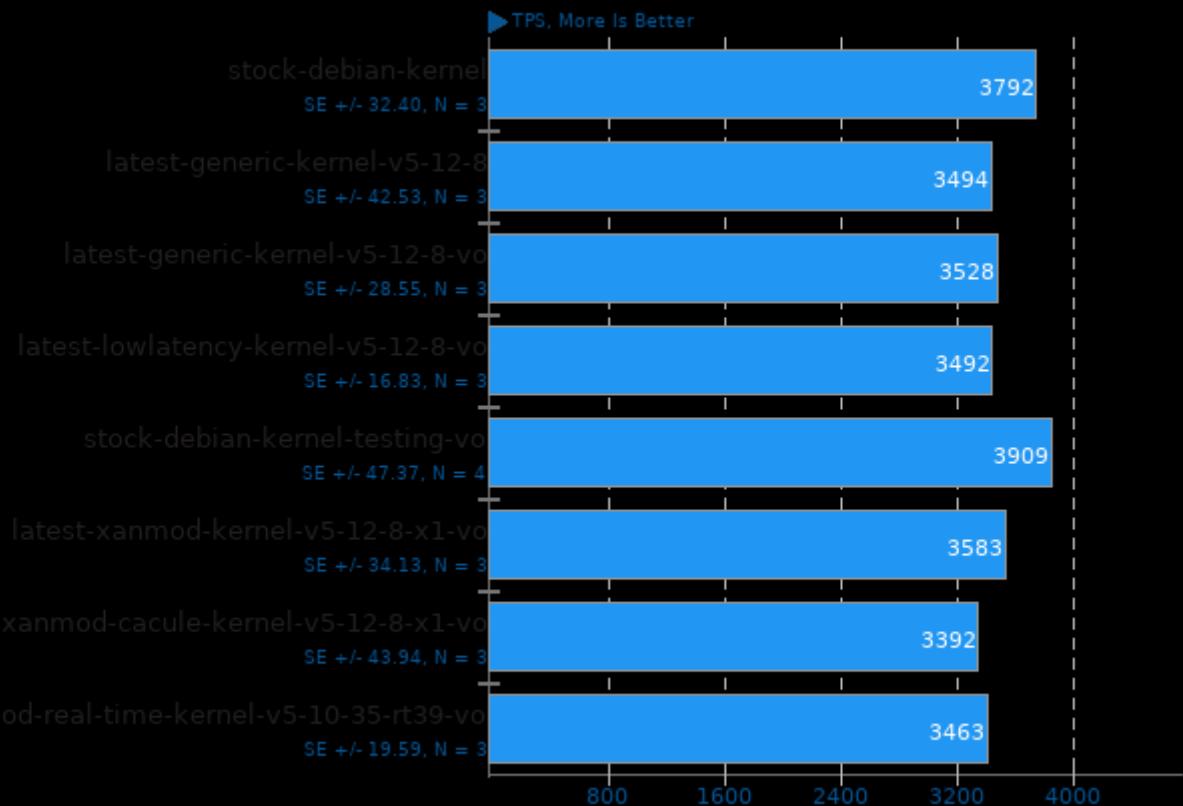
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

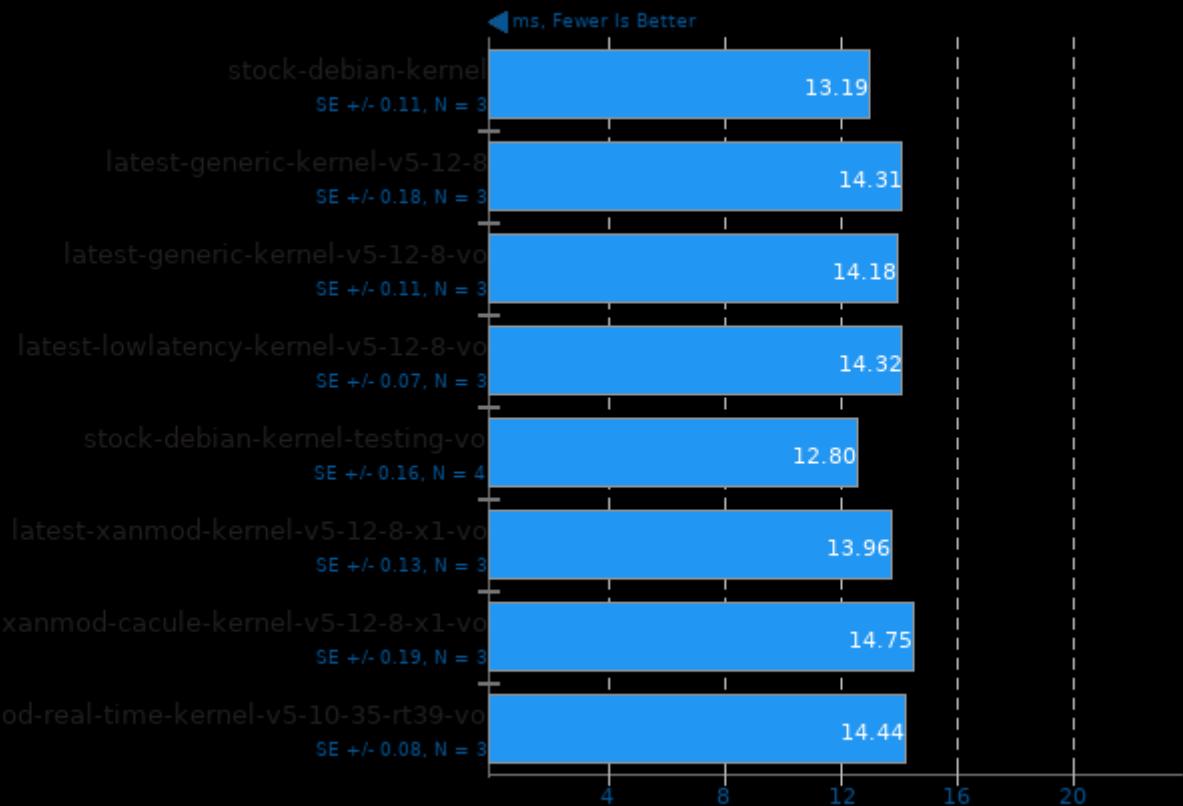
Scaling Factor: 100 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 13.0

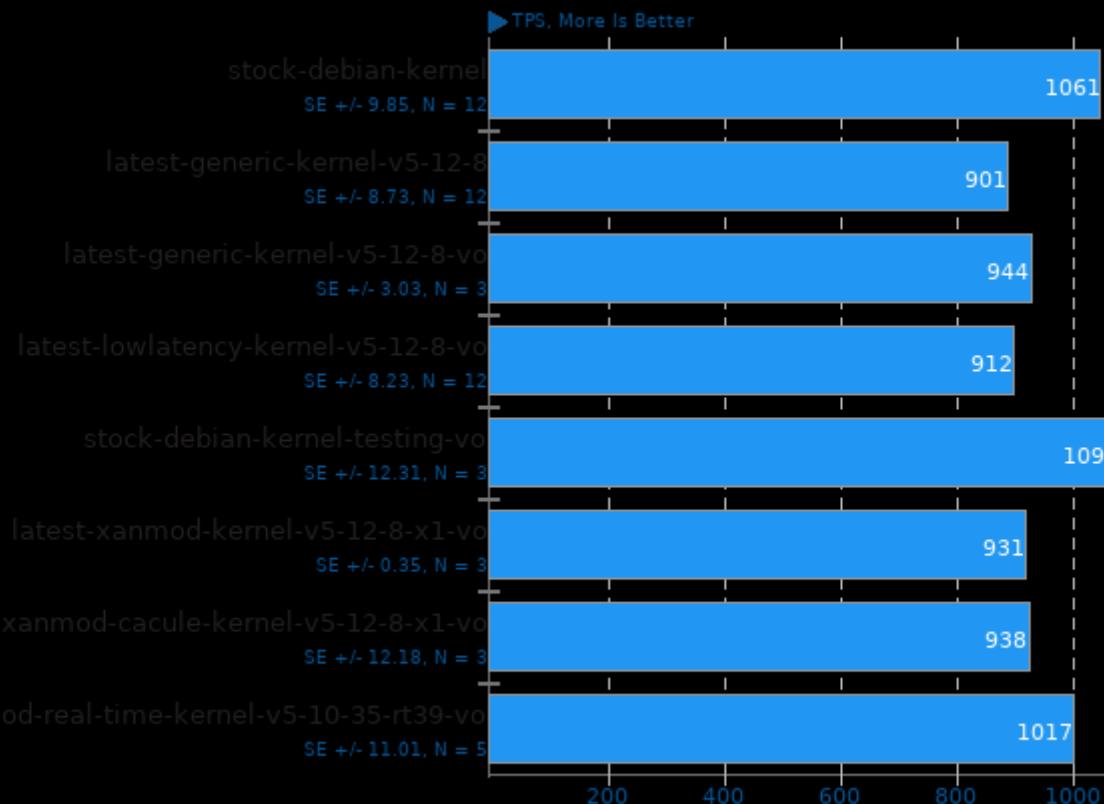
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

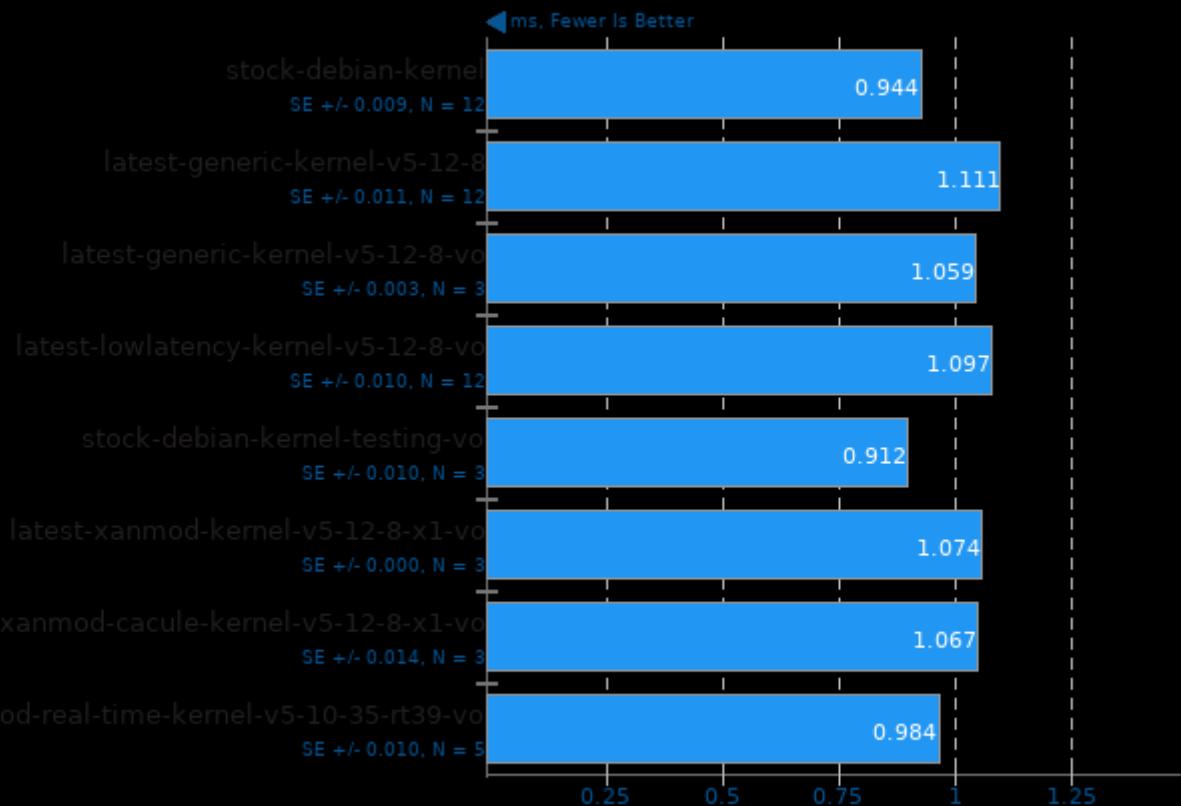
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write



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

PostgreSQL pgbench 13.0

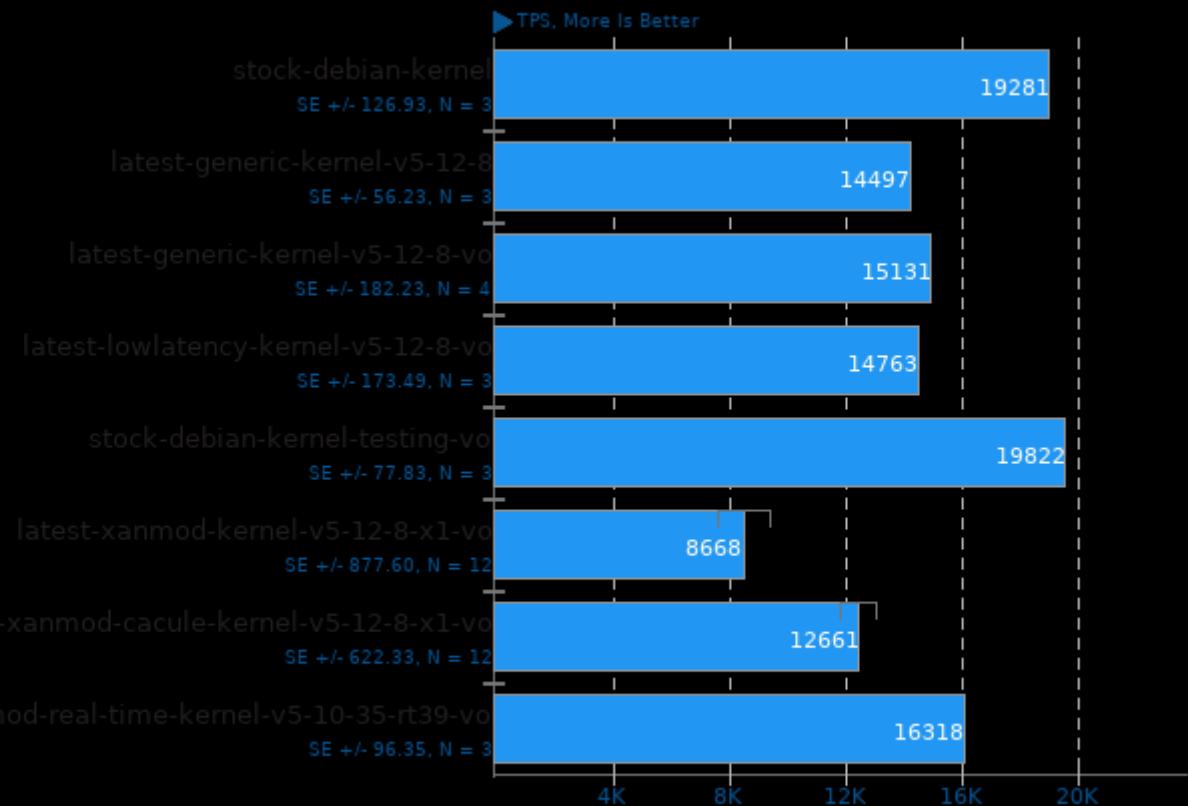
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

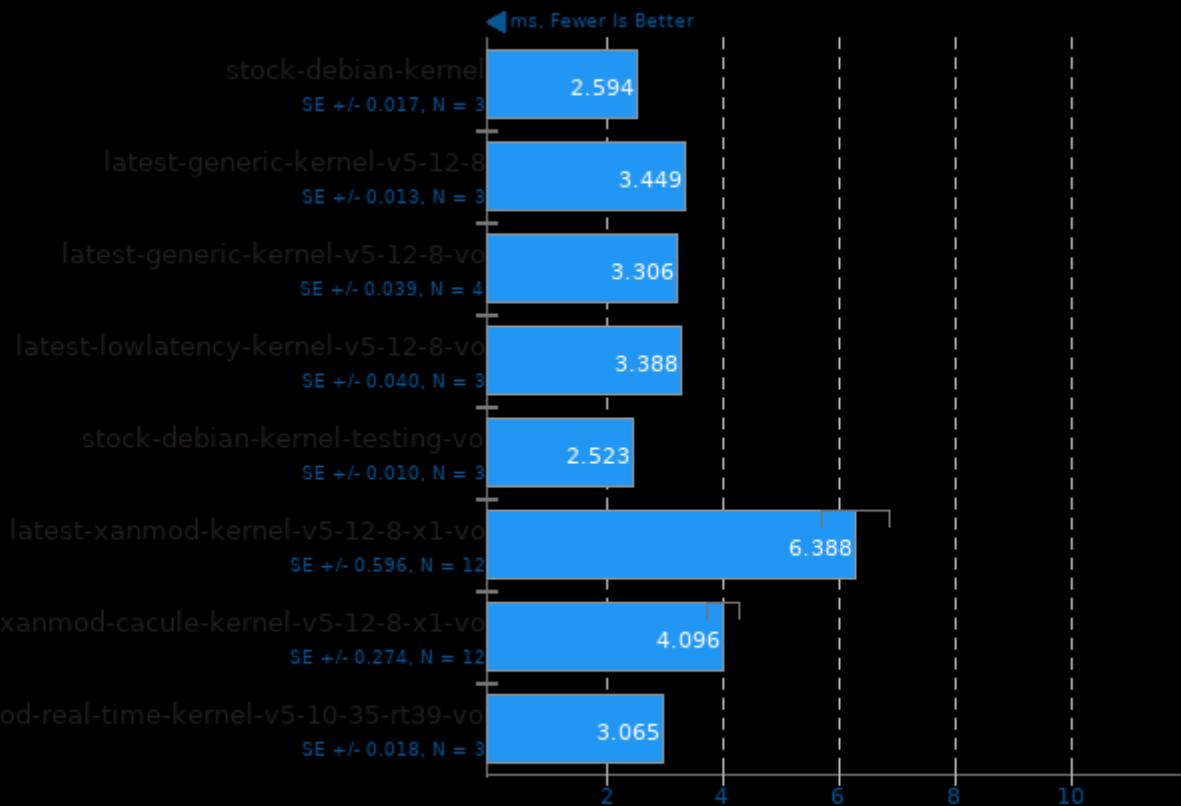
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 13.0

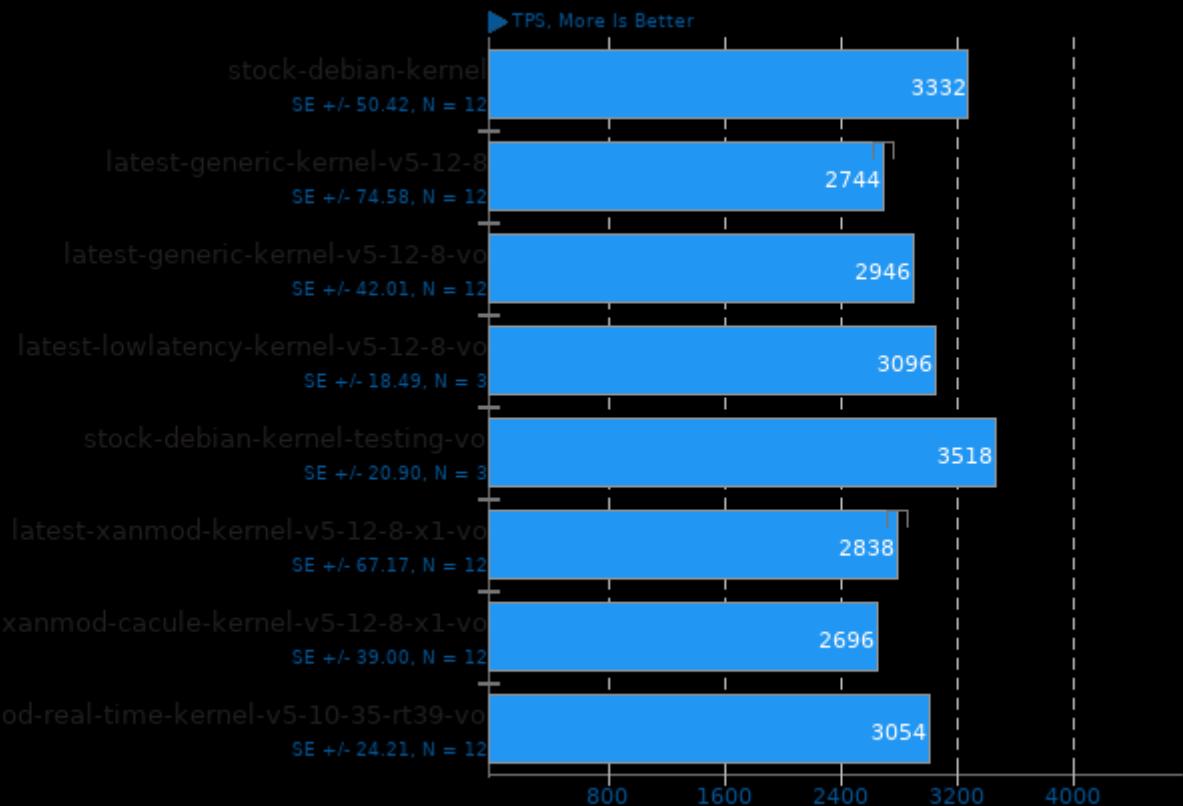
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

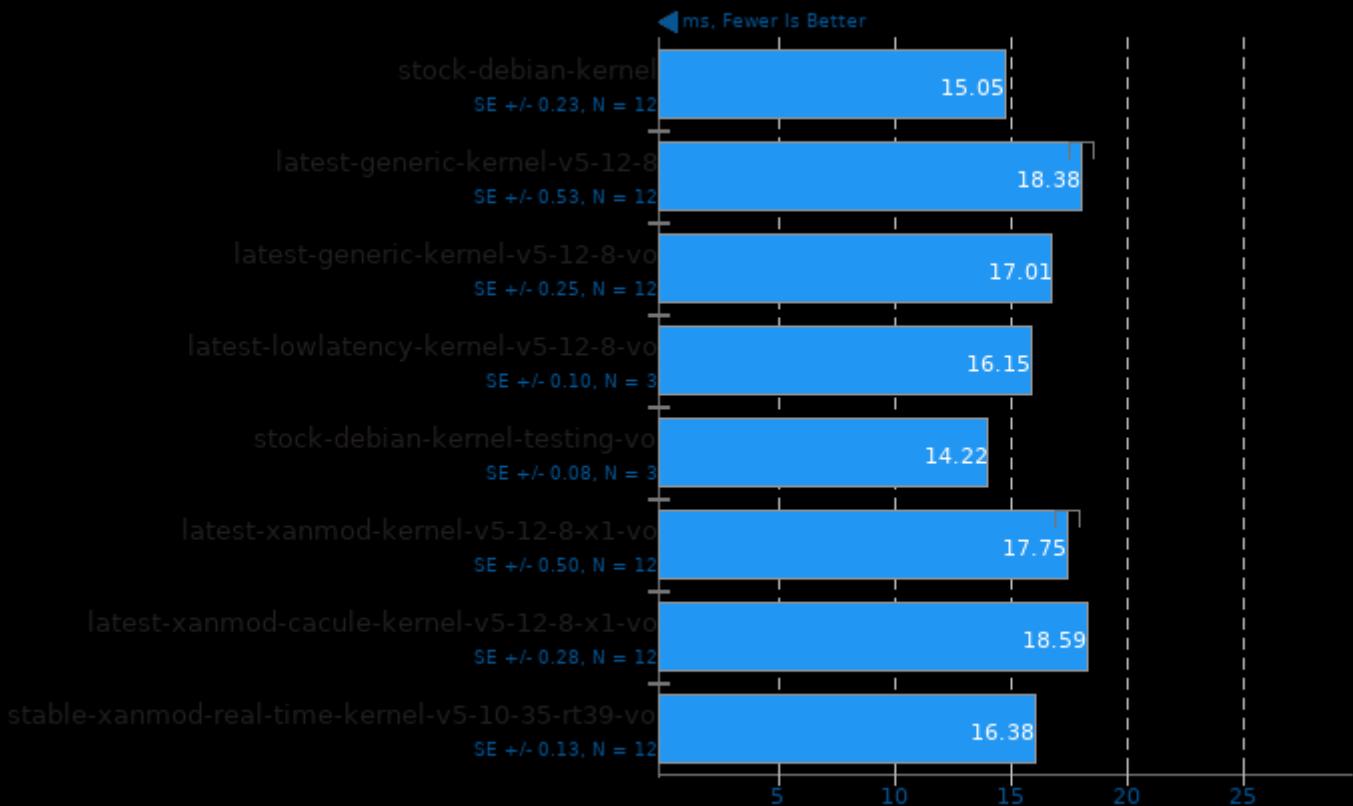
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 13.0

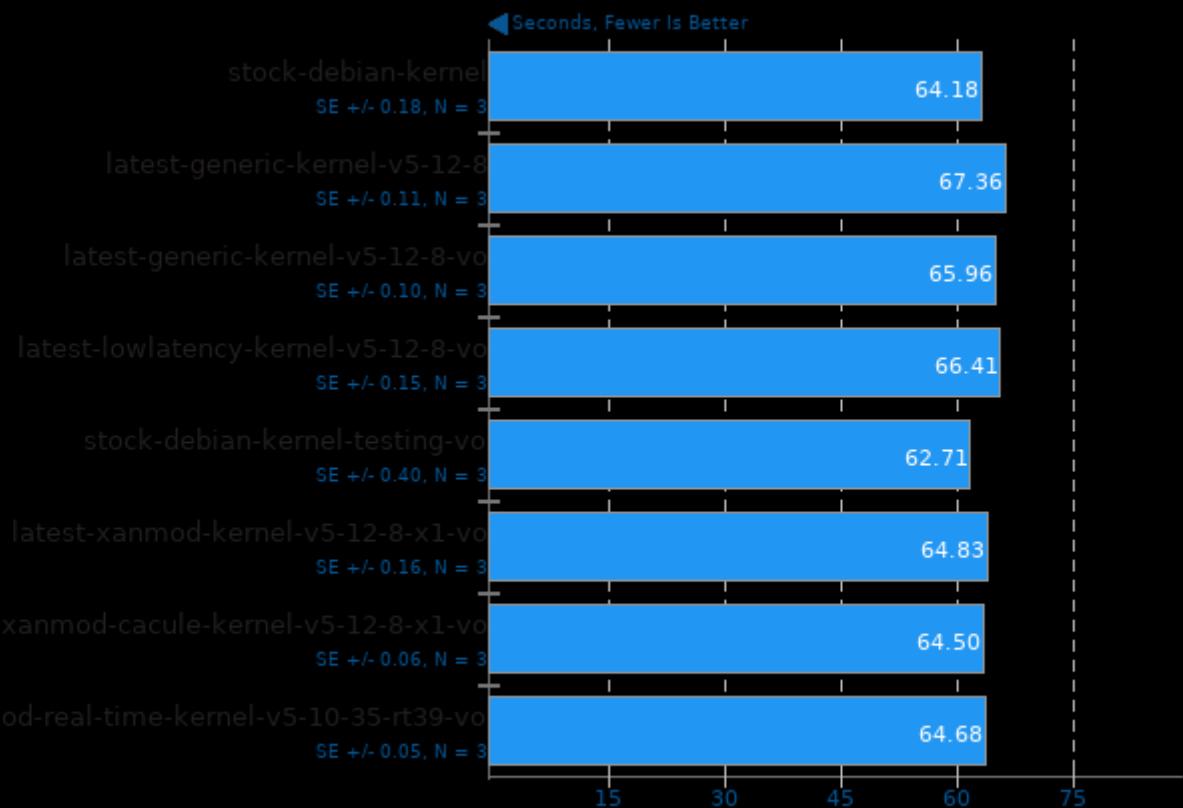
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency



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

SQLite Speedtest 3.30

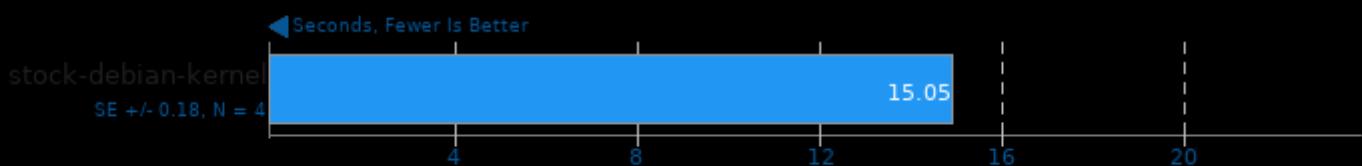
Timed Time - Size 1,000



1. (CC) gcc options: -O2 -fPIE -fstack-protector-all

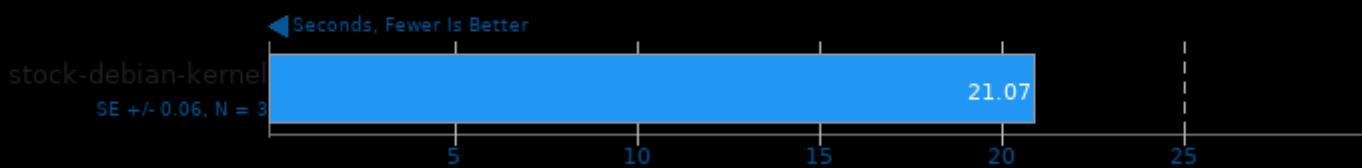
GIMP 2.10.8

Test: resize



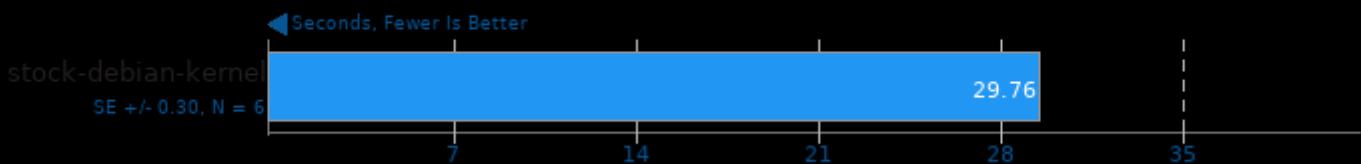
GIMP 2.10.8

Test: rotate



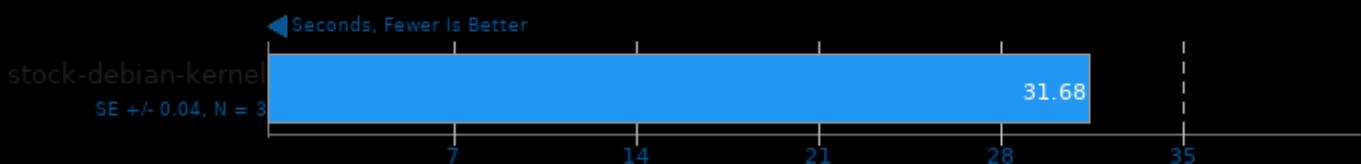
GIMP 2.10.8

Test: auto-levels



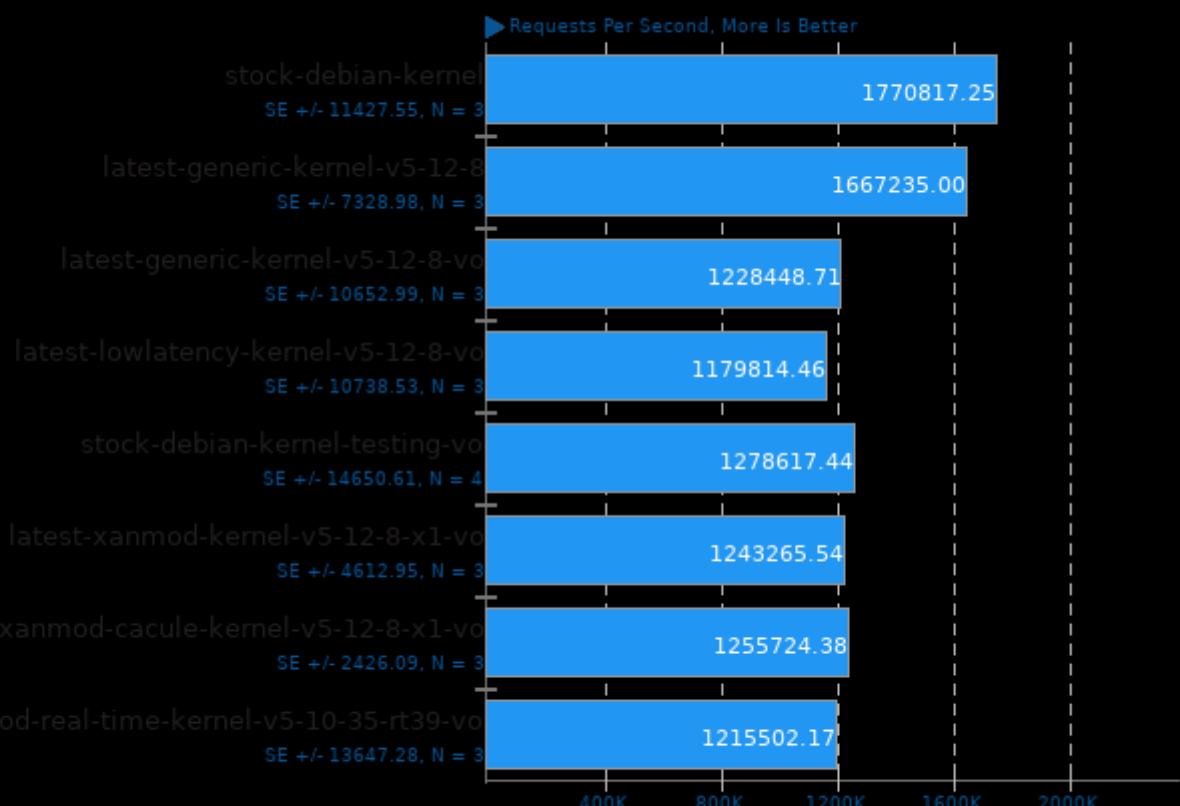
GIMP 2.10.8

Test: unsharp-mask



Redis 6.0.9

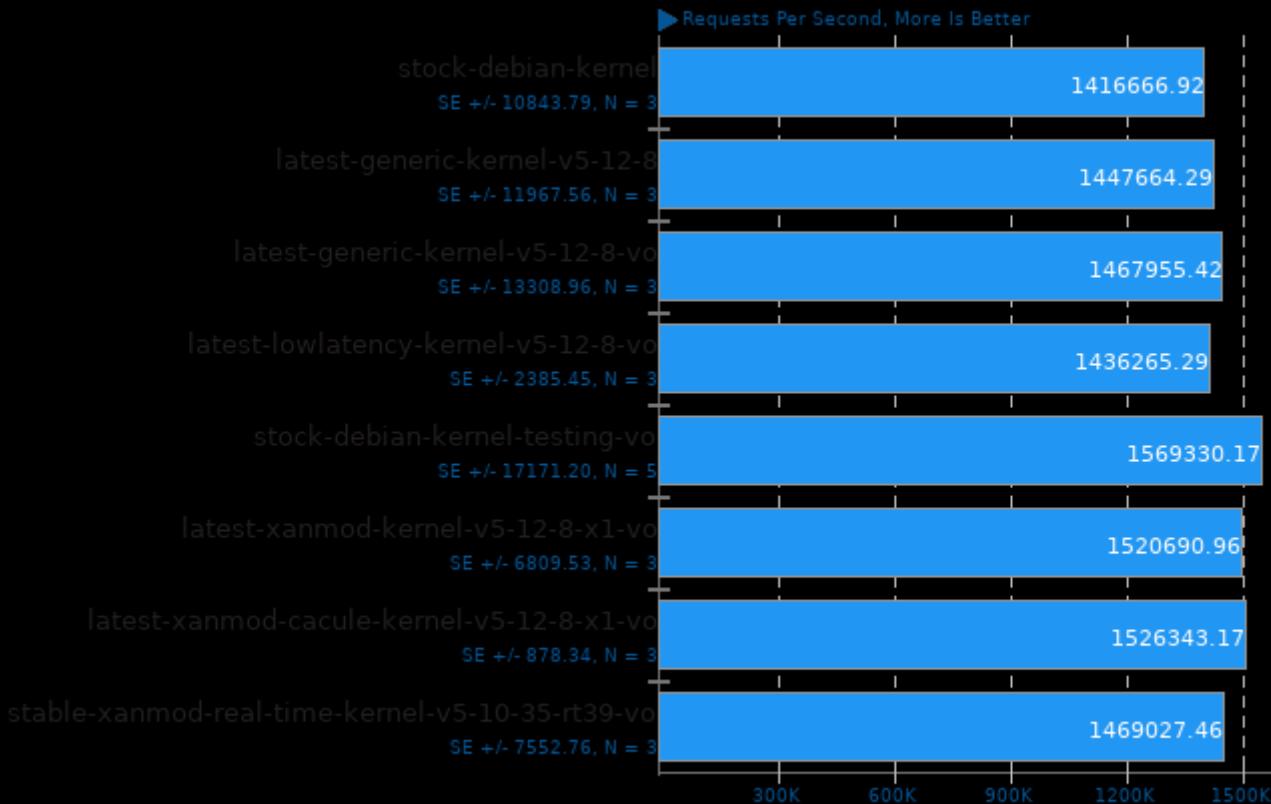
Test: LPOP



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

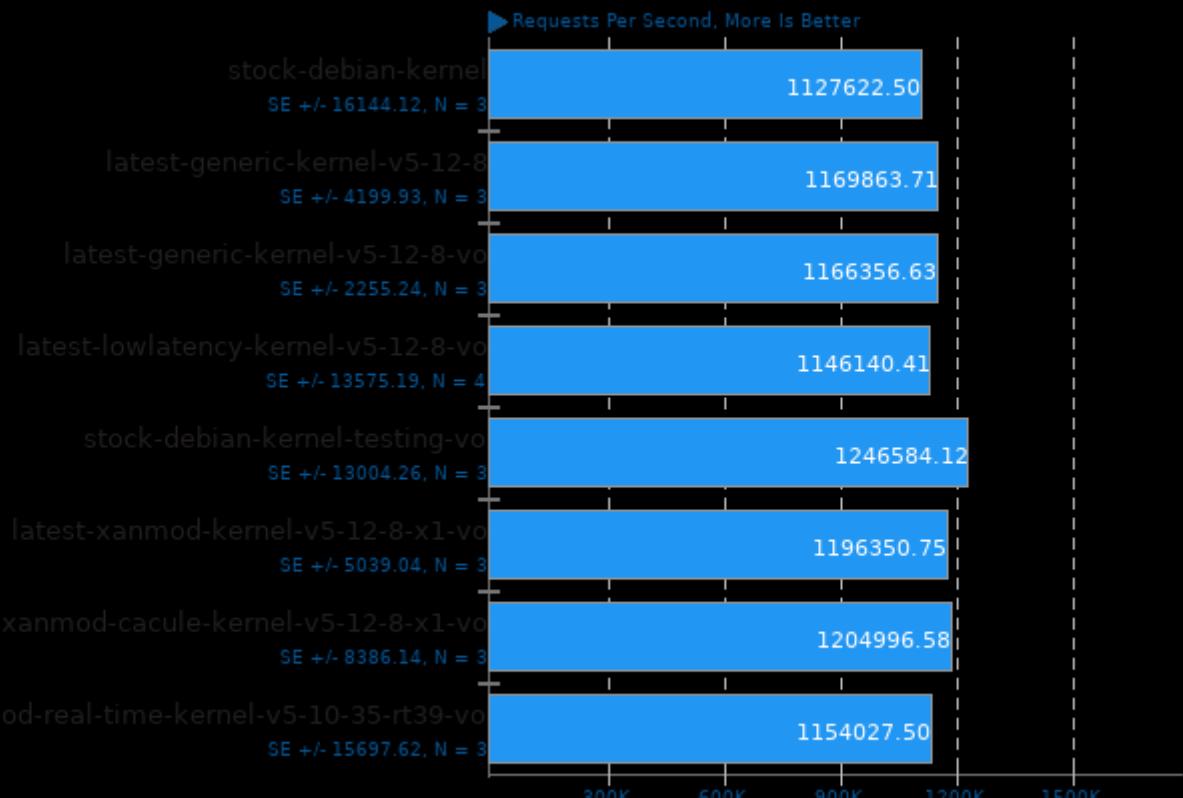
Test: SADD



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

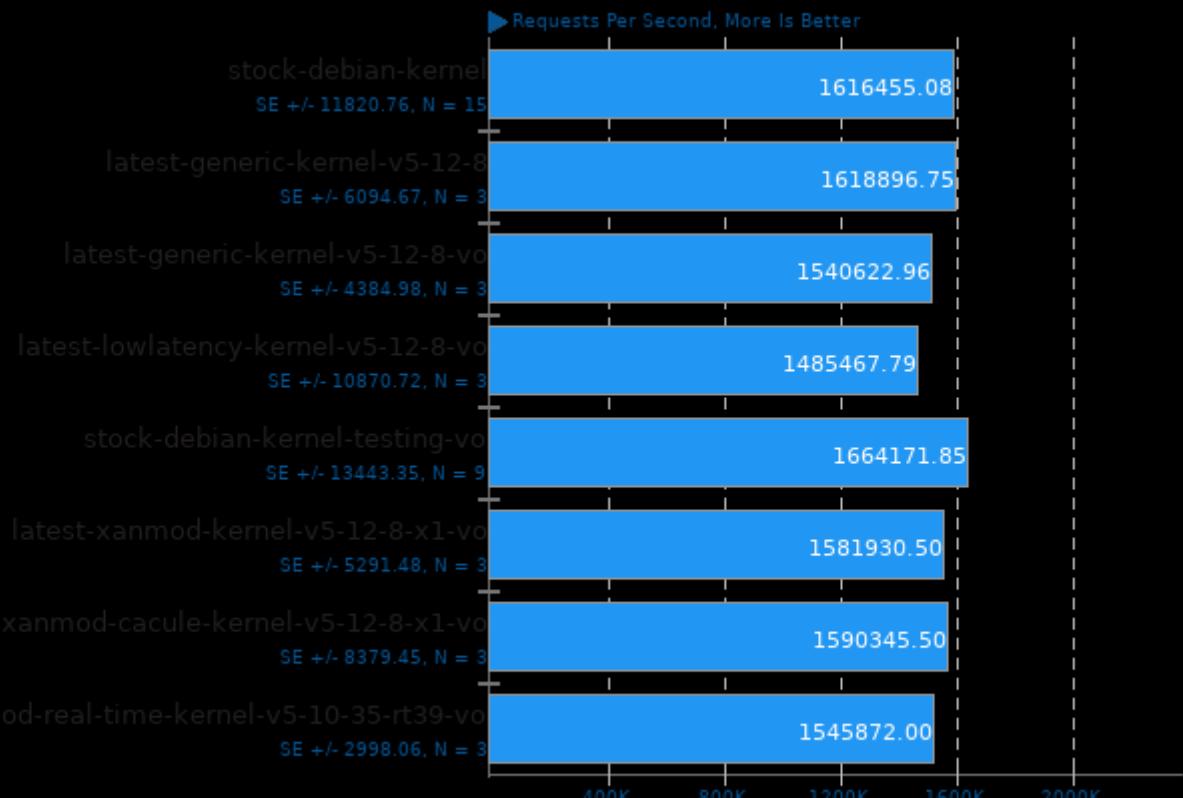
Test: LPUSH



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

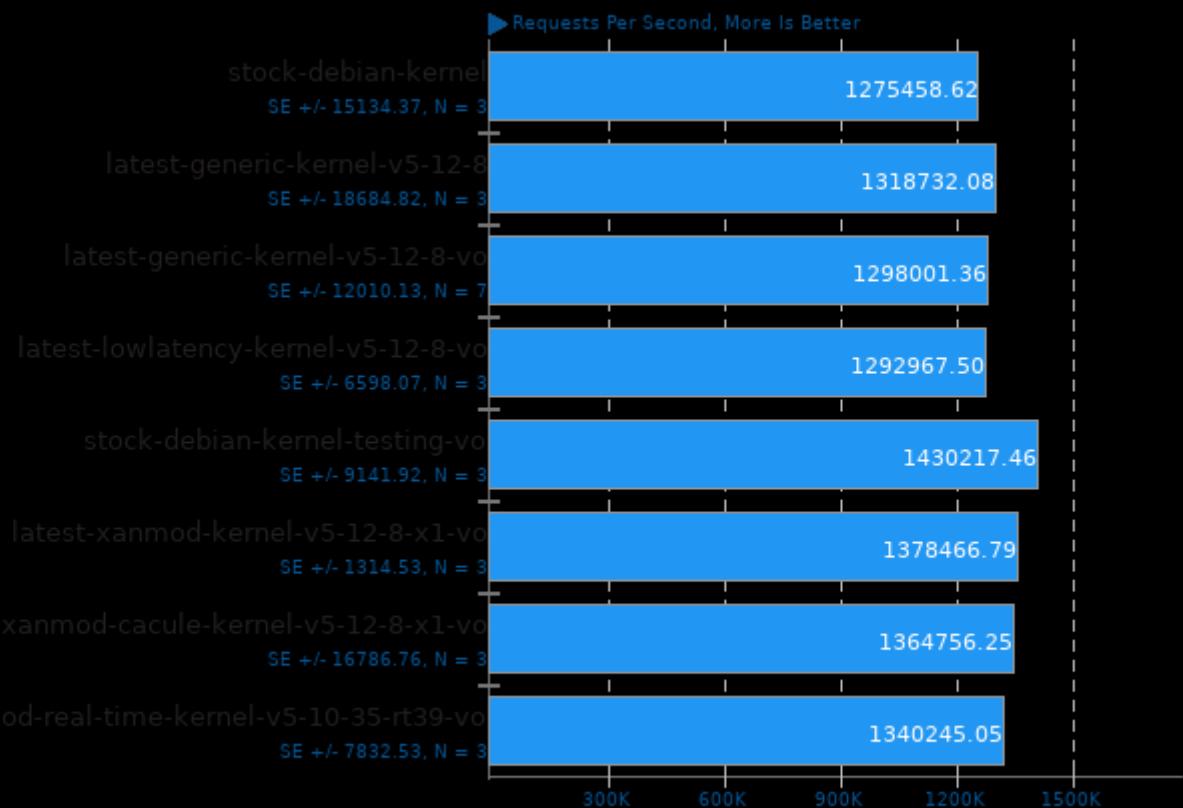
Test: GET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

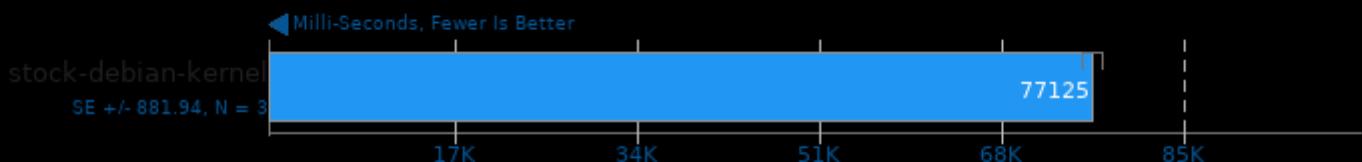
Test: SET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Caffe 2020-02-13

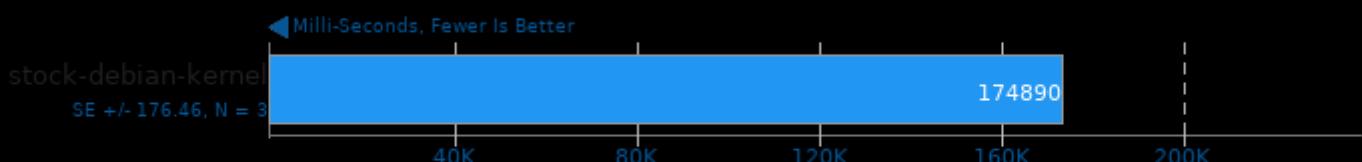
Model: AlexNet - Acceleration: CPU - Iterations: 100



1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgfl

Caffe 2020-02-13

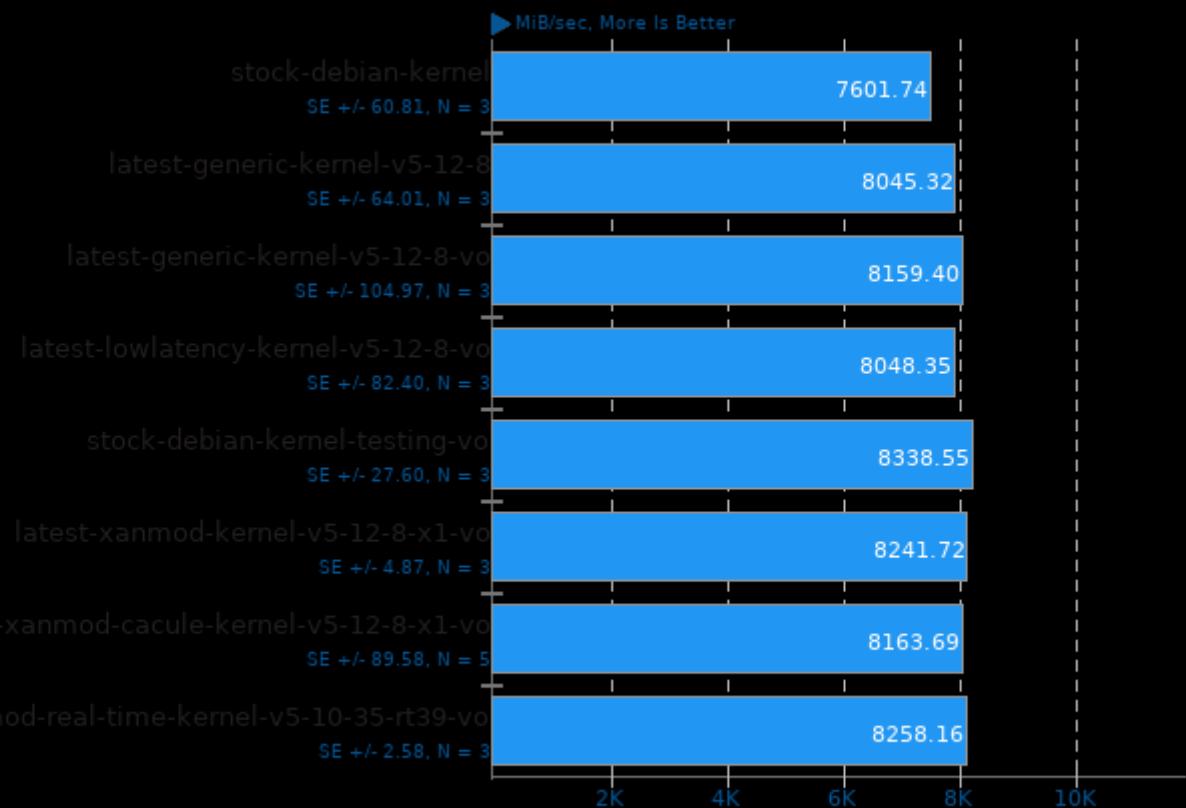
Model: GoogleNet - Acceleration: CPU - Iterations: 100



1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgfl

Sysbench 1.0.20

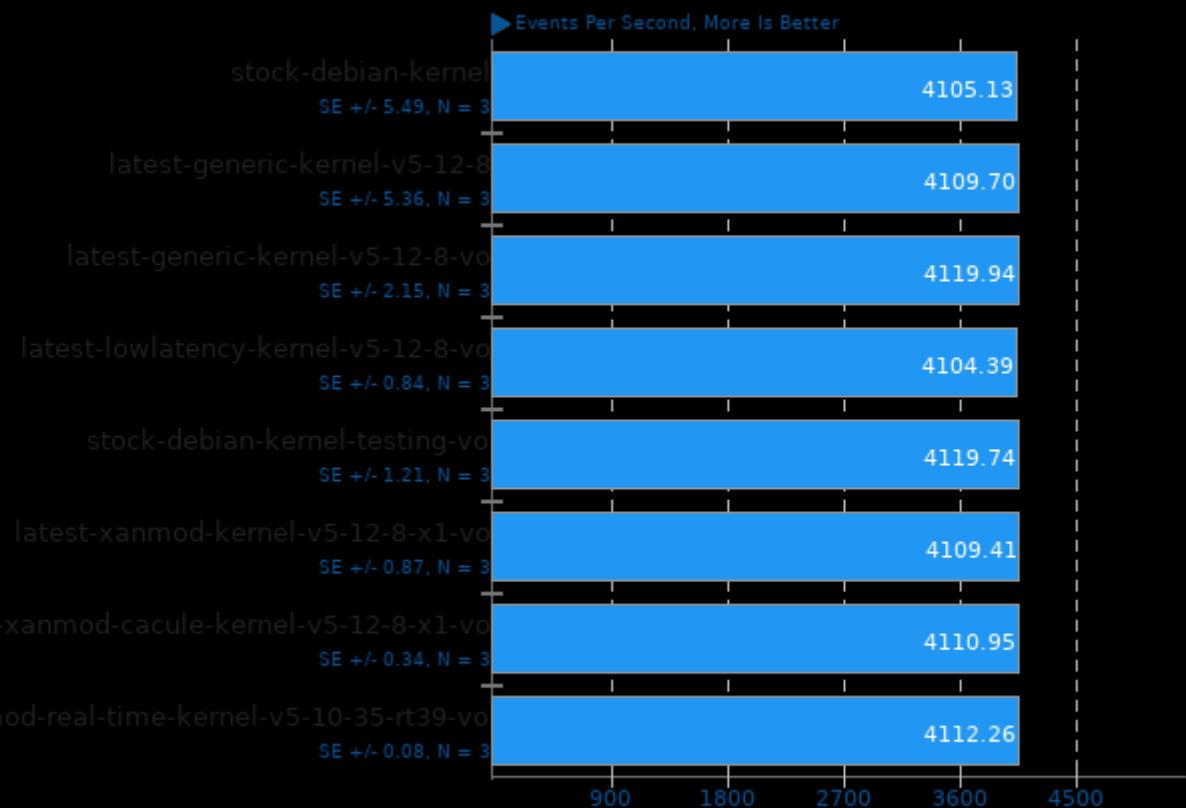
Test: RAM / Memory



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

Sysbench 1.0.20

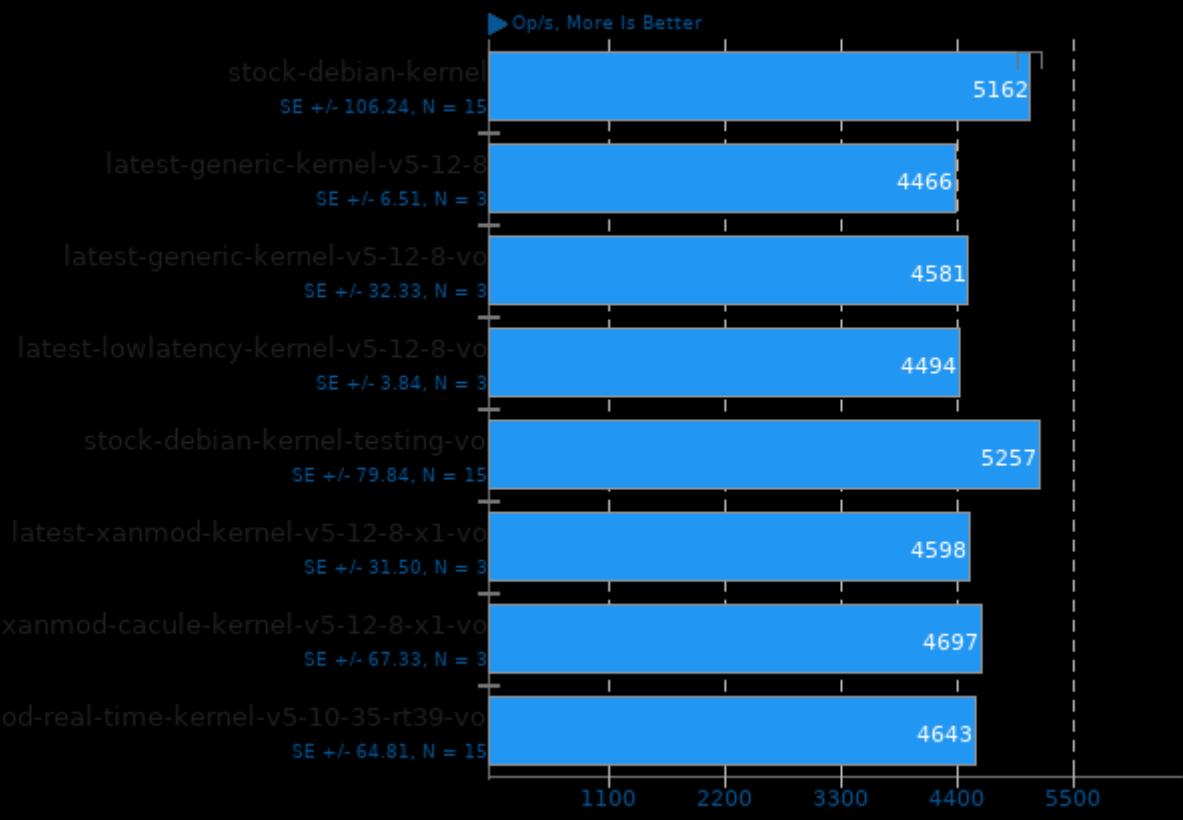
Test: CPU



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

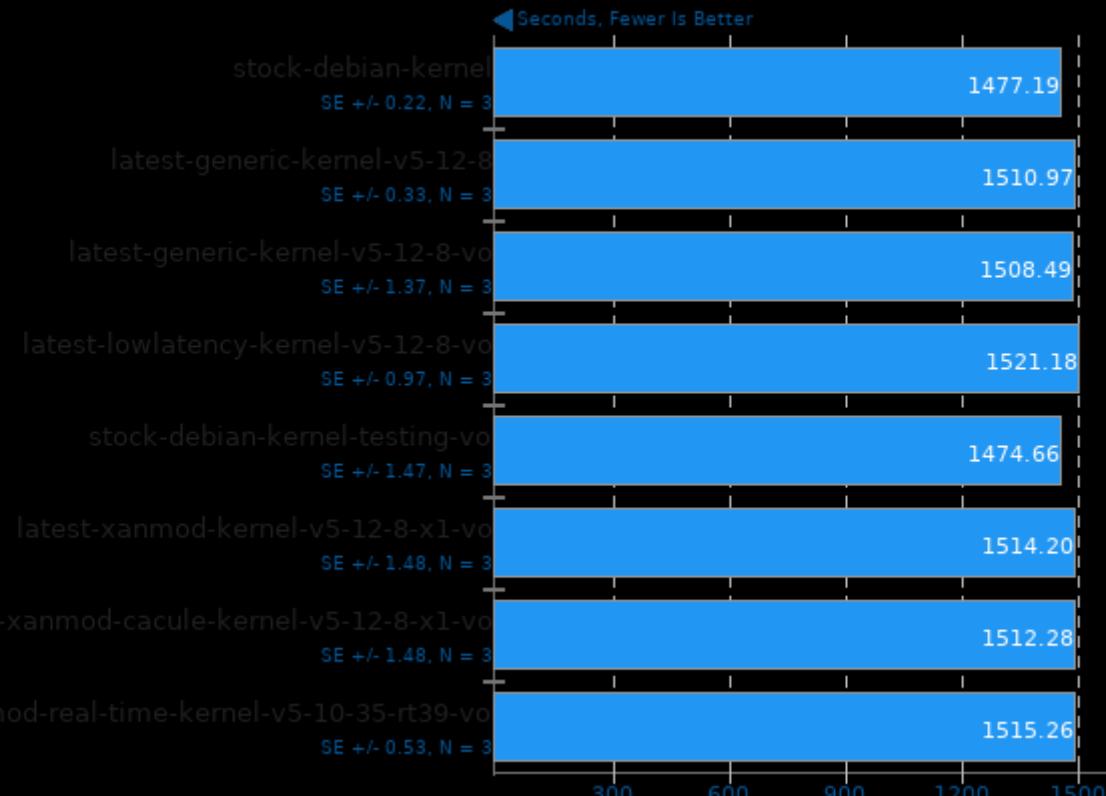
Apache Cassandra 3.11.4

Test: Writes



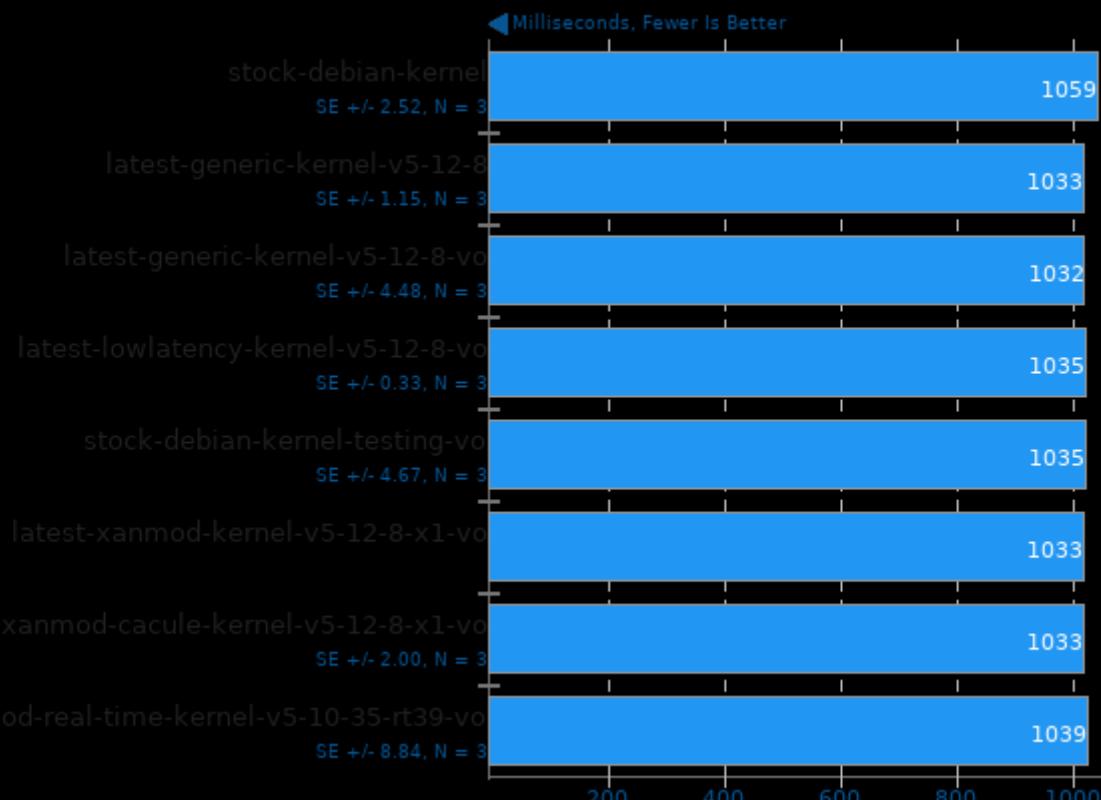
Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



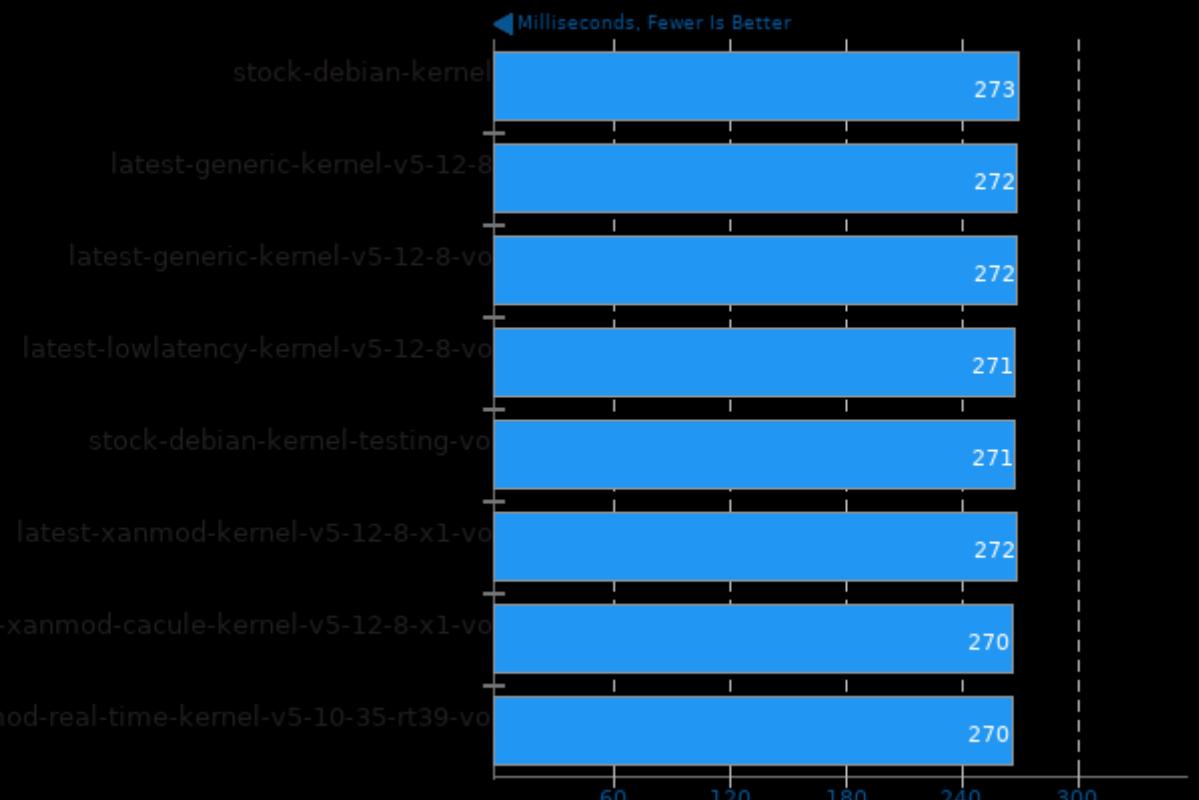
PyBench 2018-02-16

Total For Average Test Times



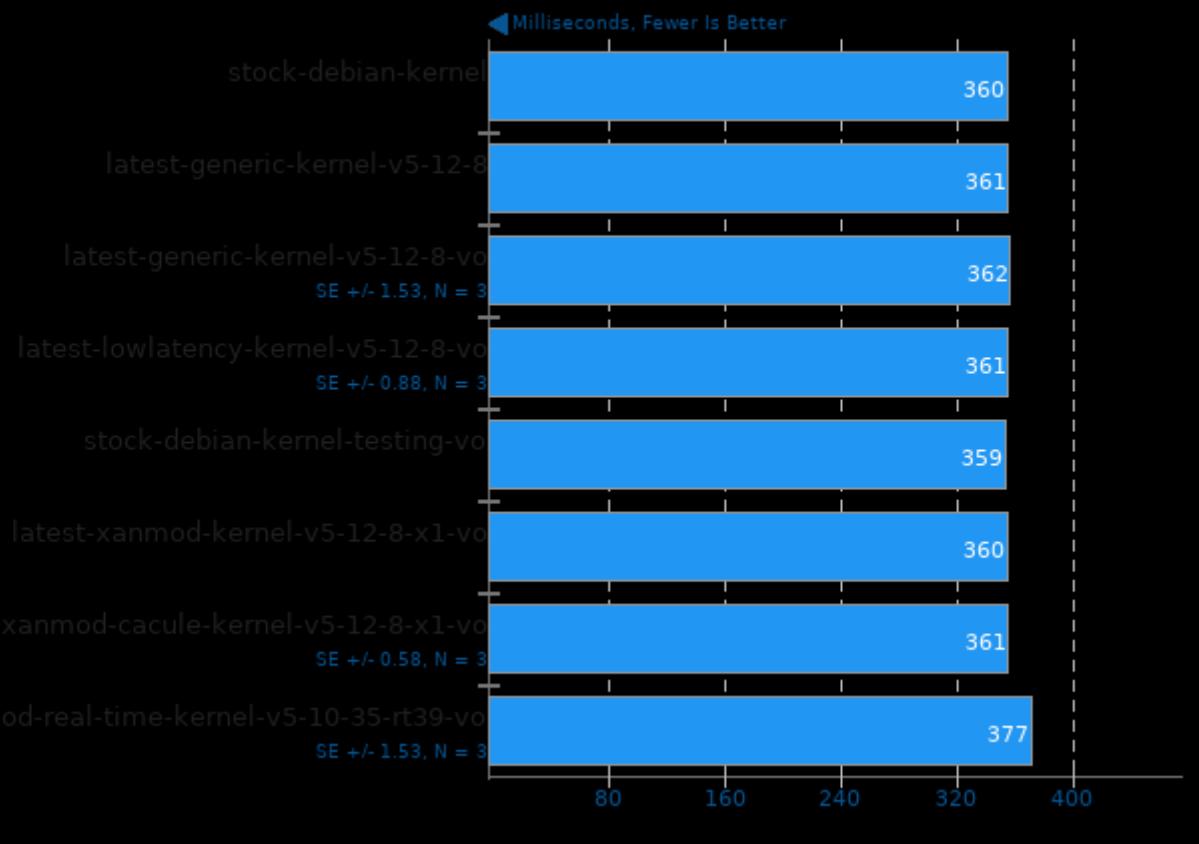
PyPerformance 1.0.0

Benchmark: go



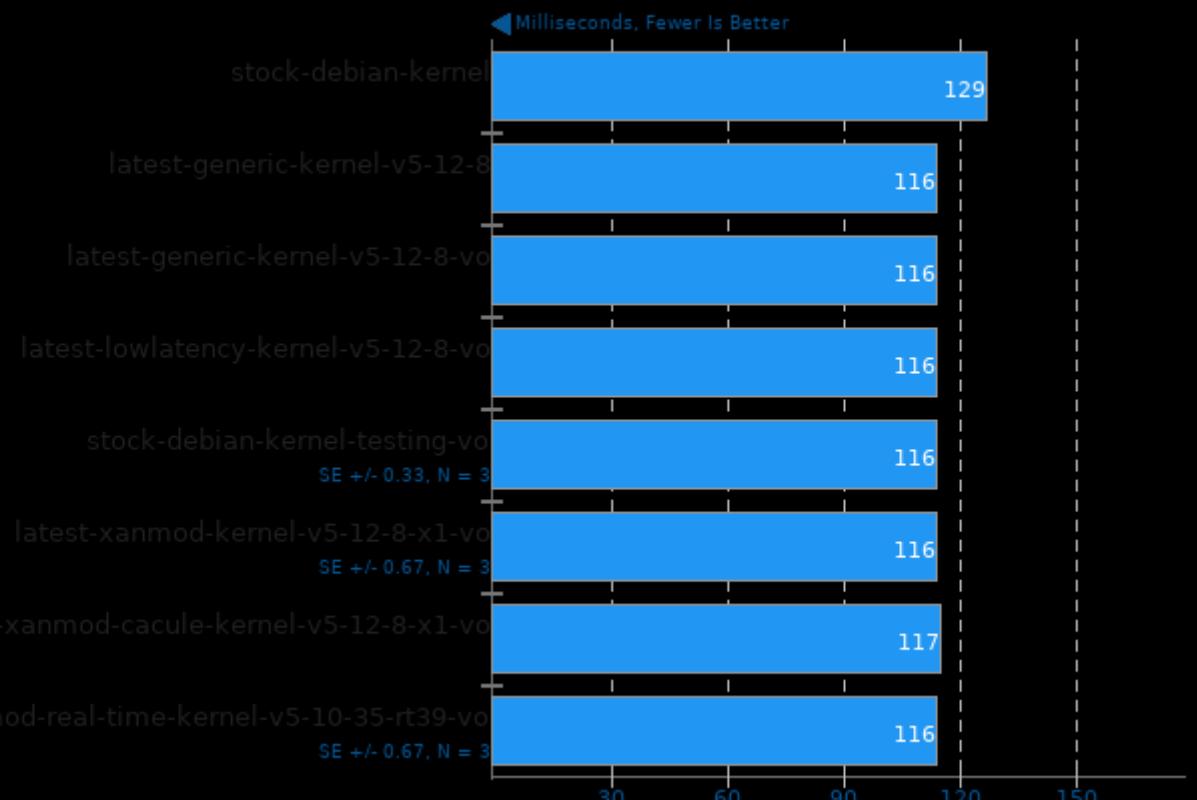
PyPerformance 1.0.0

Benchmark: 2to3



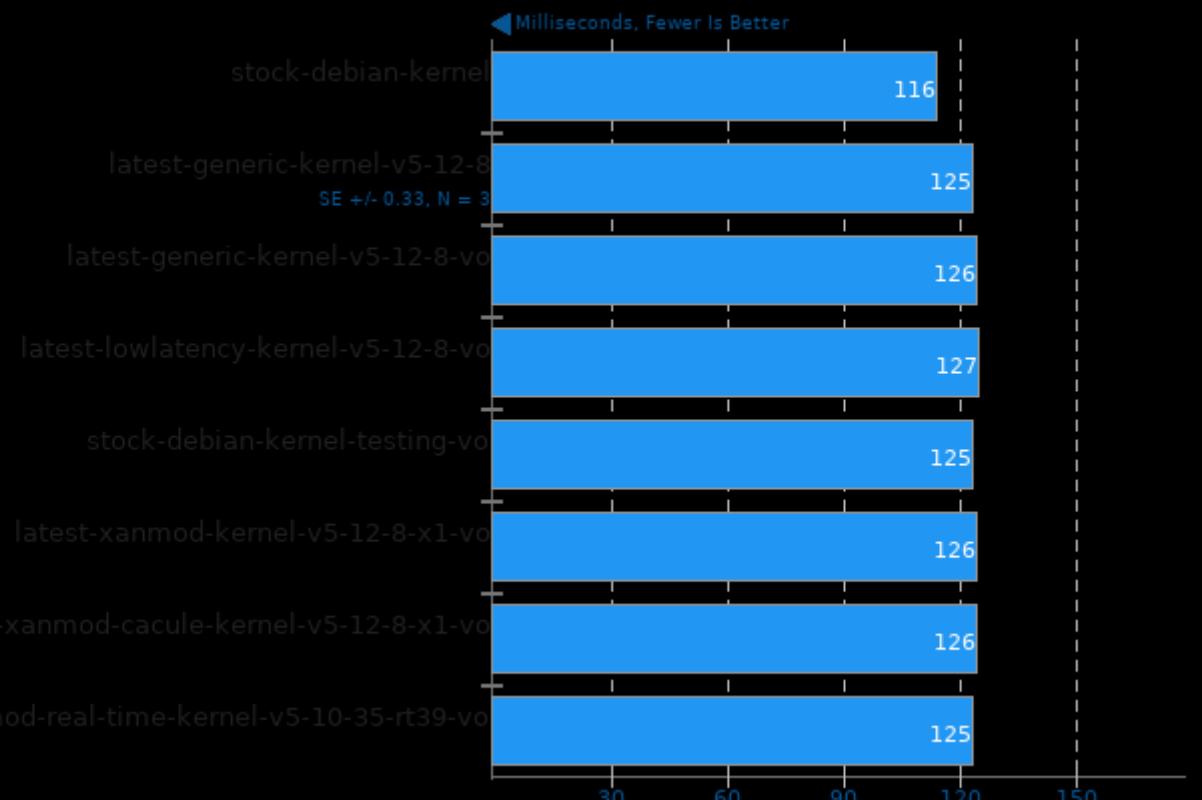
PyPerformance 1.0.0

Benchmark: chaos



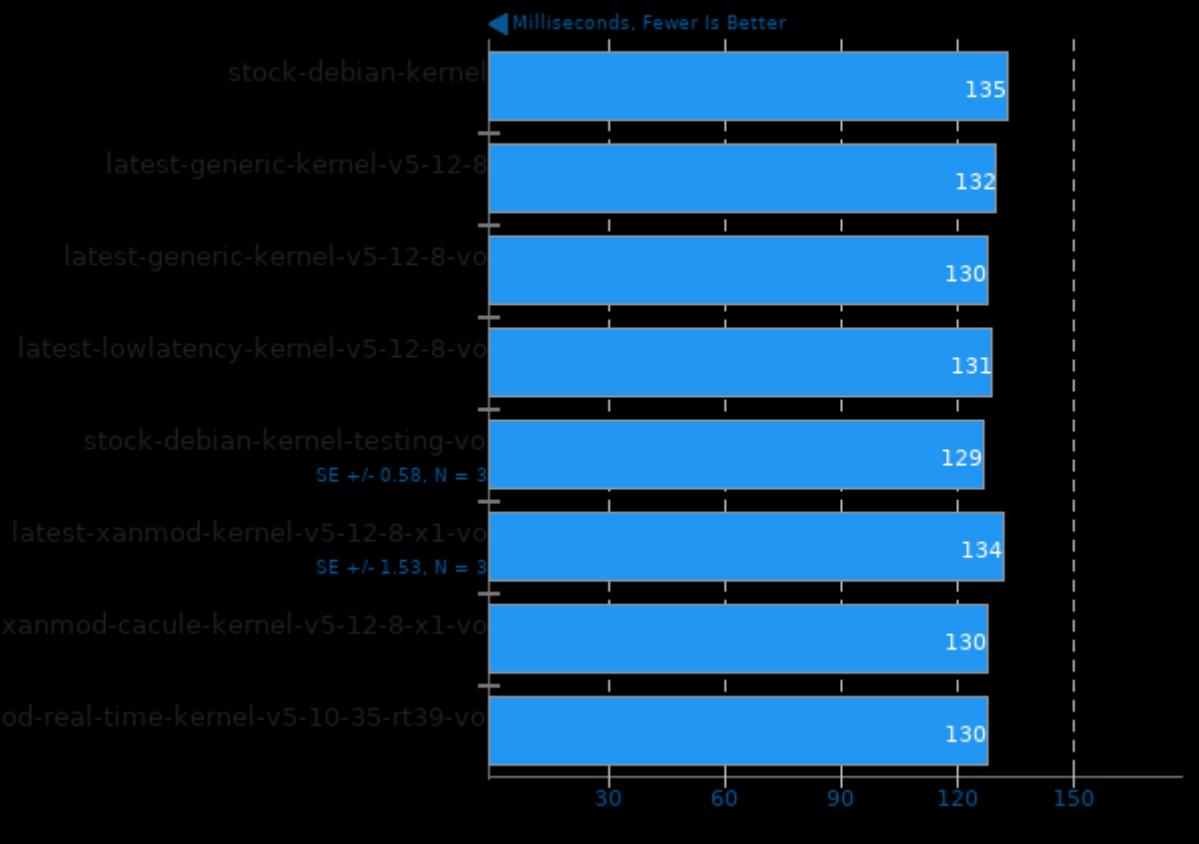
PyPerformance 1.0.0

Benchmark: float



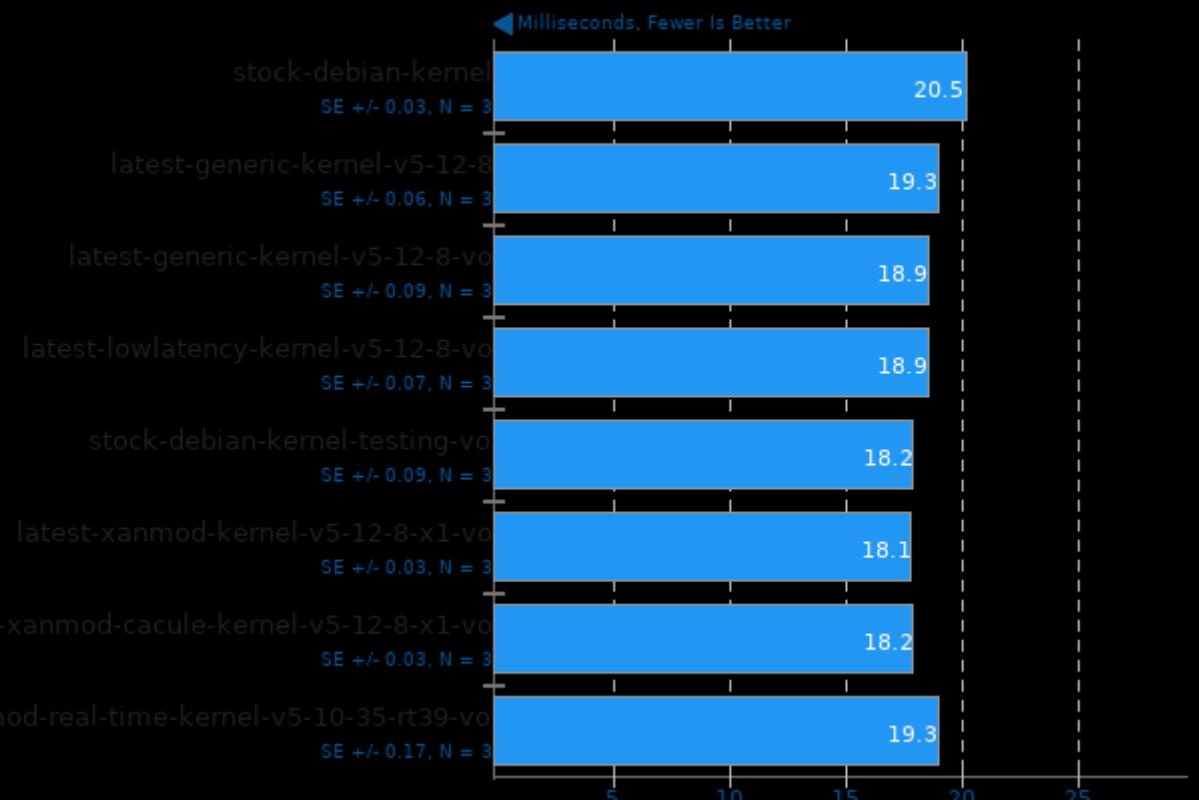
PyPerformance 1.0.0

Benchmark: nbody



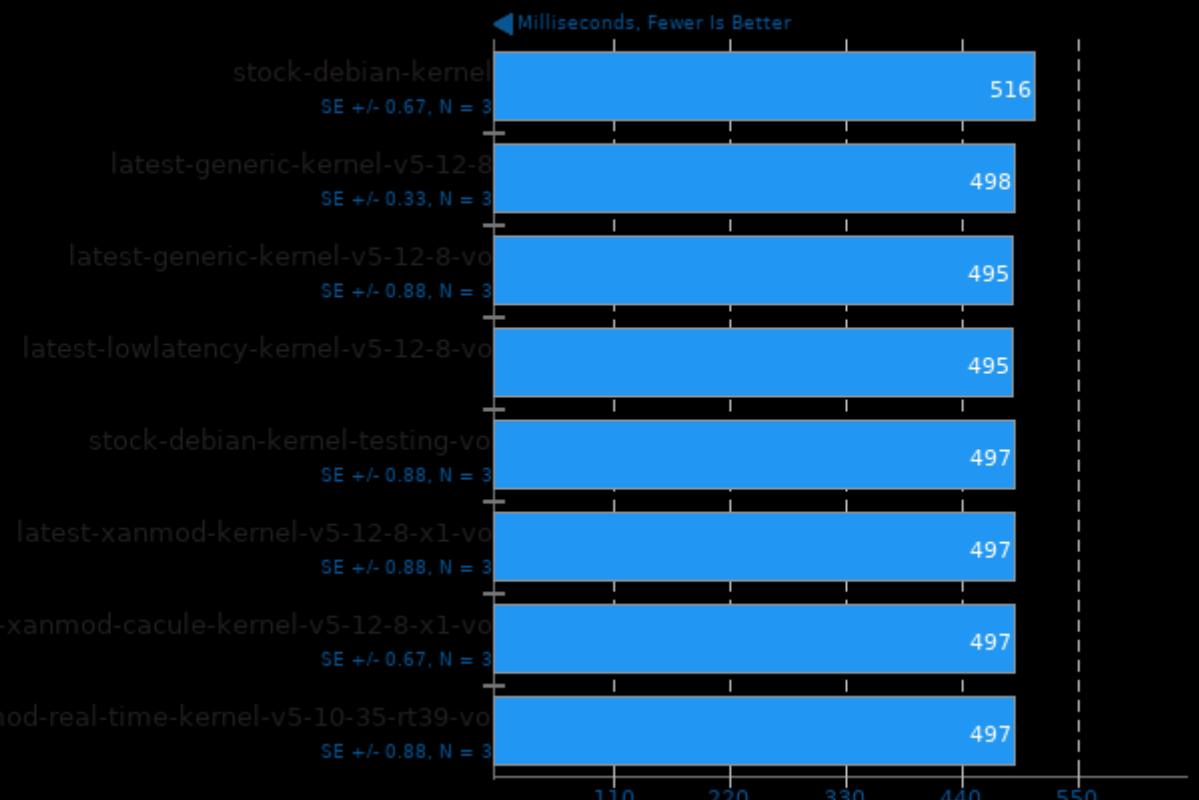
PyPerformance 1.0.0

Benchmark: pathlib



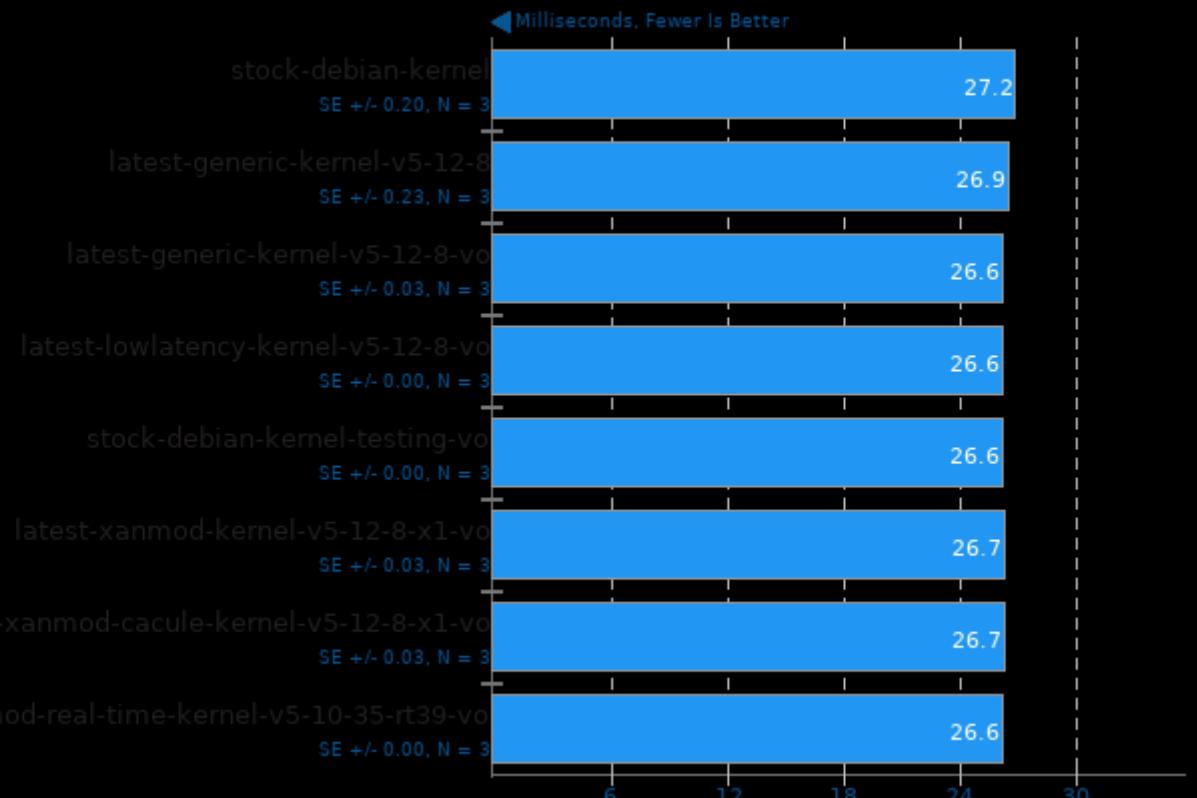
PyPerformance 1.0.0

Benchmark: raytrace



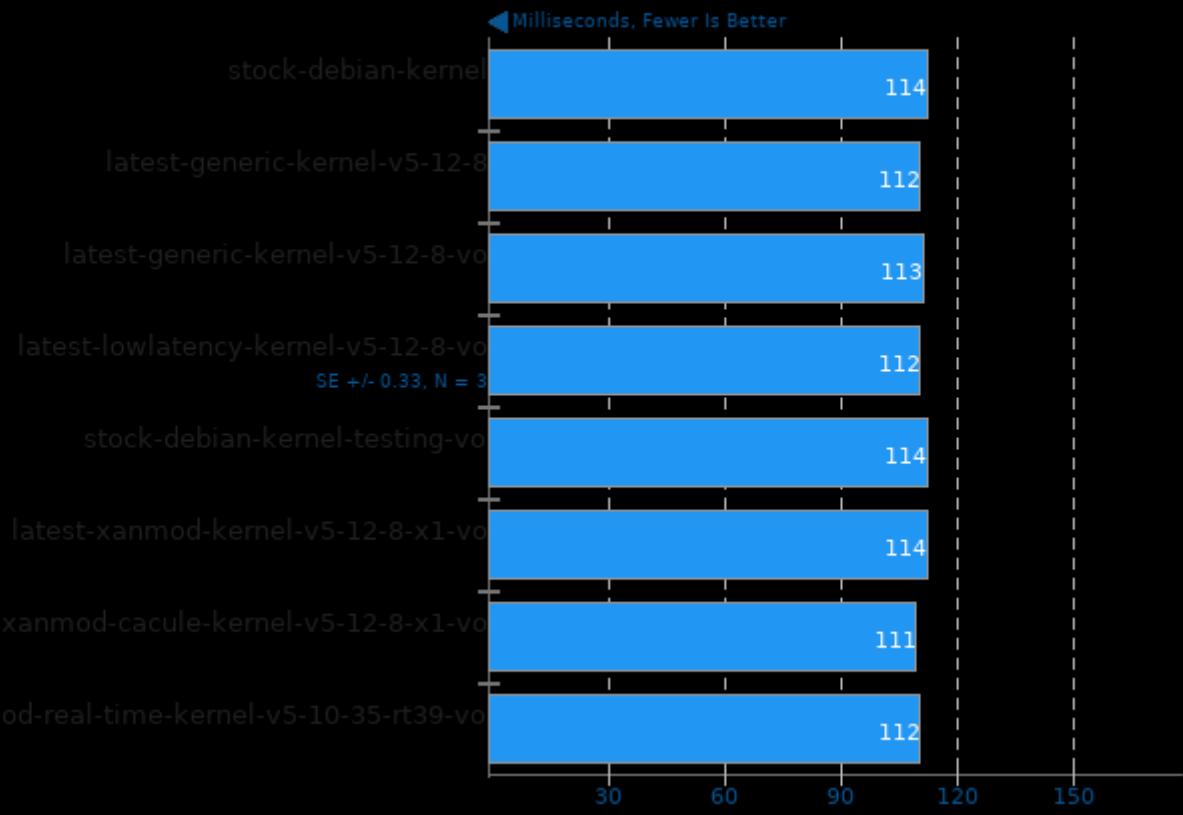
PyPerformance 1.0.0

Benchmark: json.loads



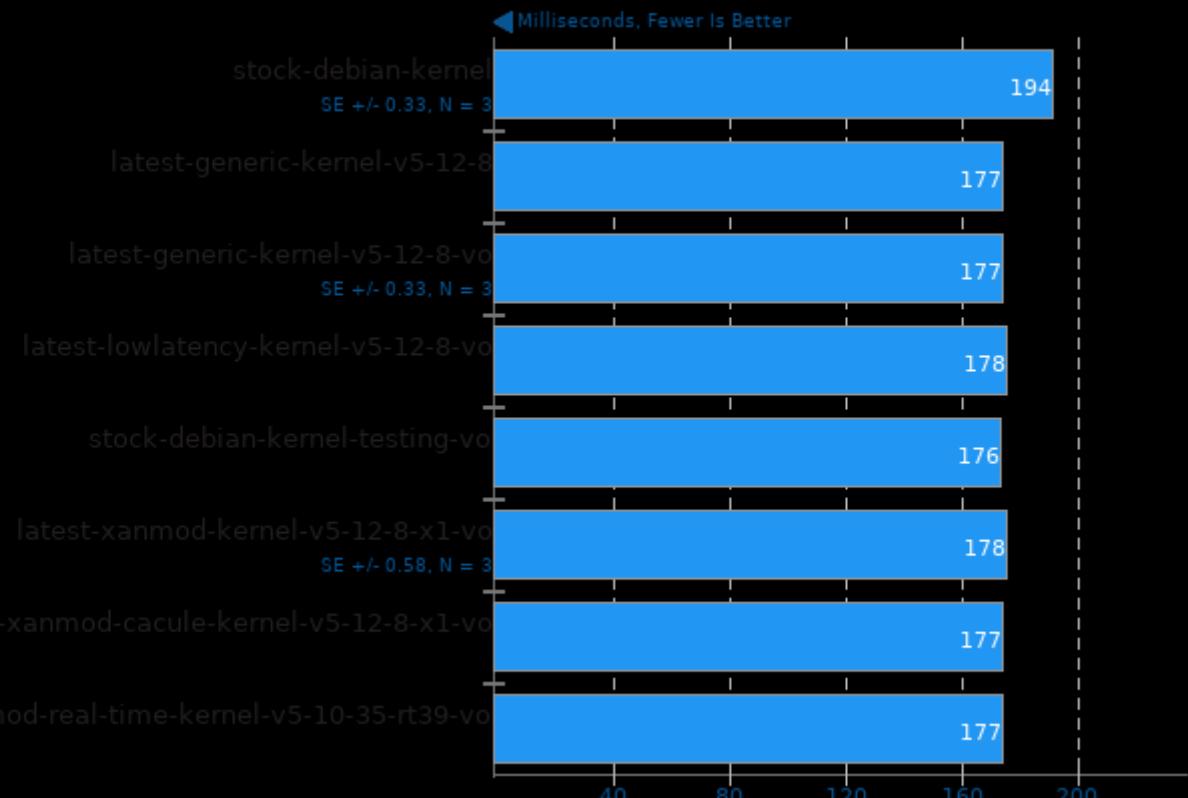
PyPerformance 1.0.0

Benchmark: crypto_pyaes



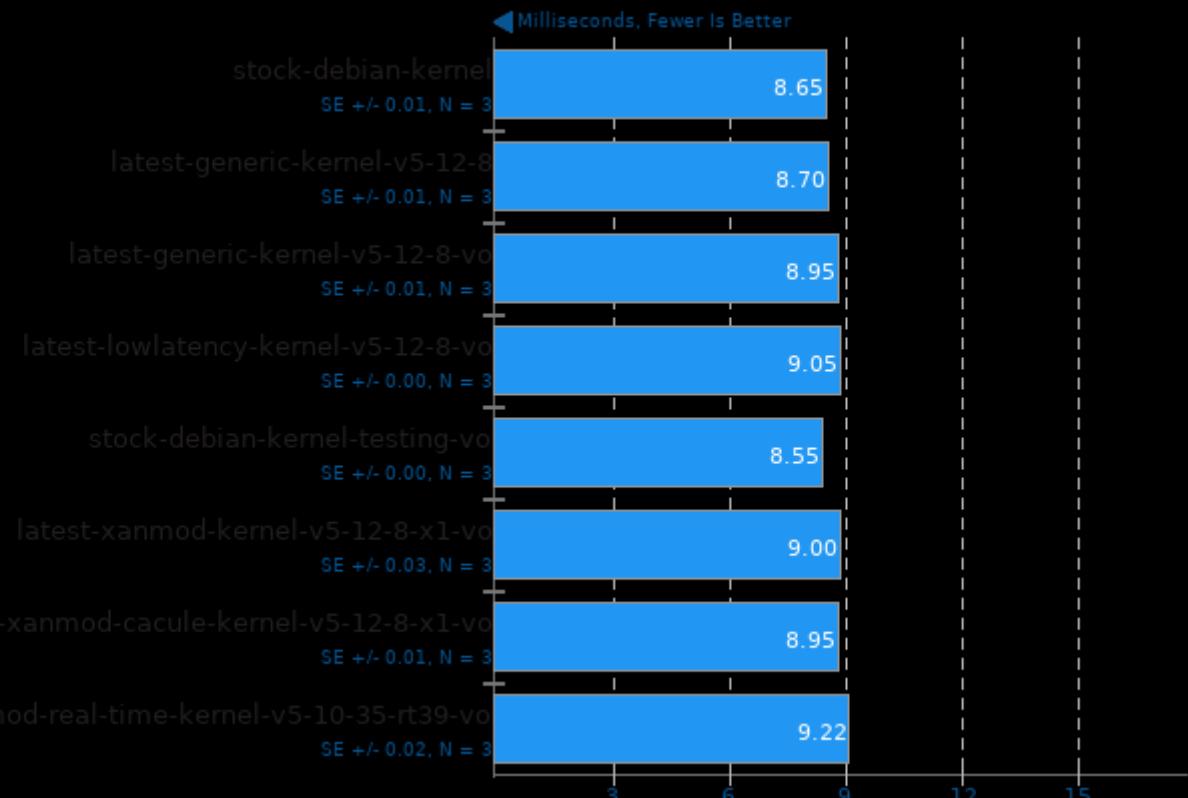
PyPerformance 1.0.0

Benchmark: regex_compile



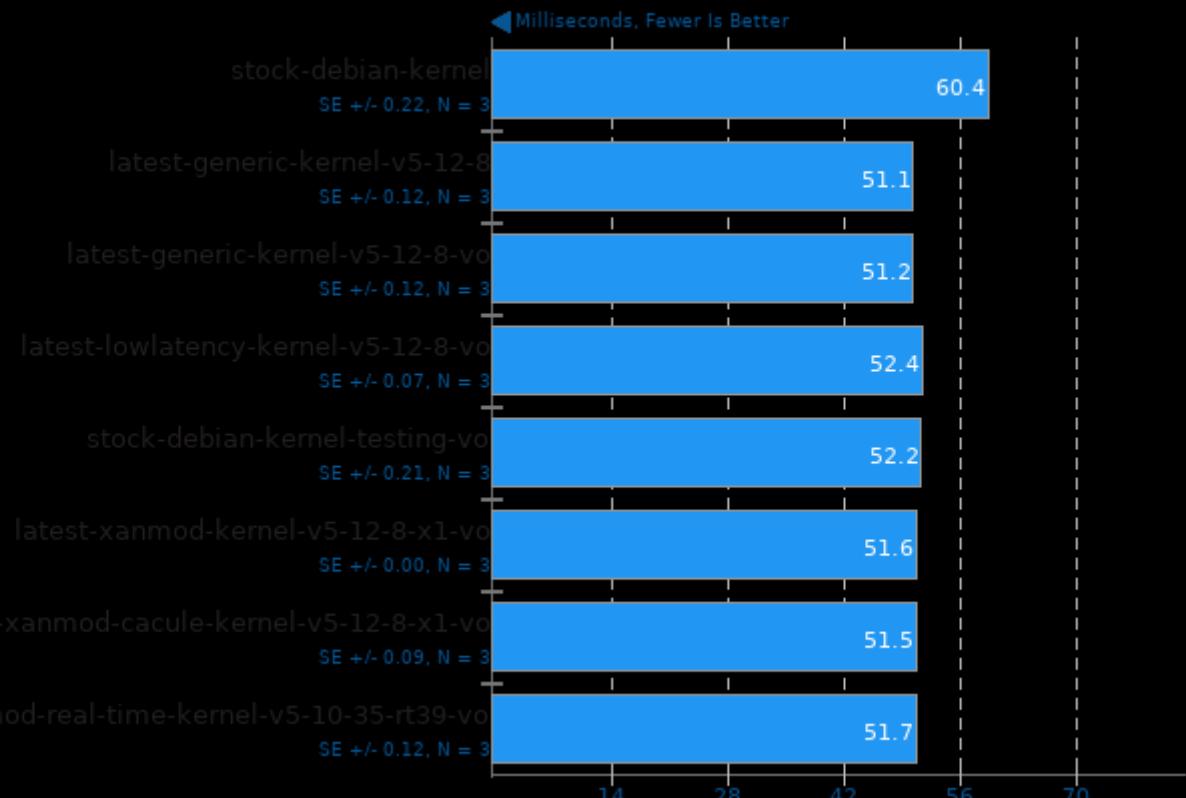
PyPerformance 1.0.0

Benchmark: python_startup



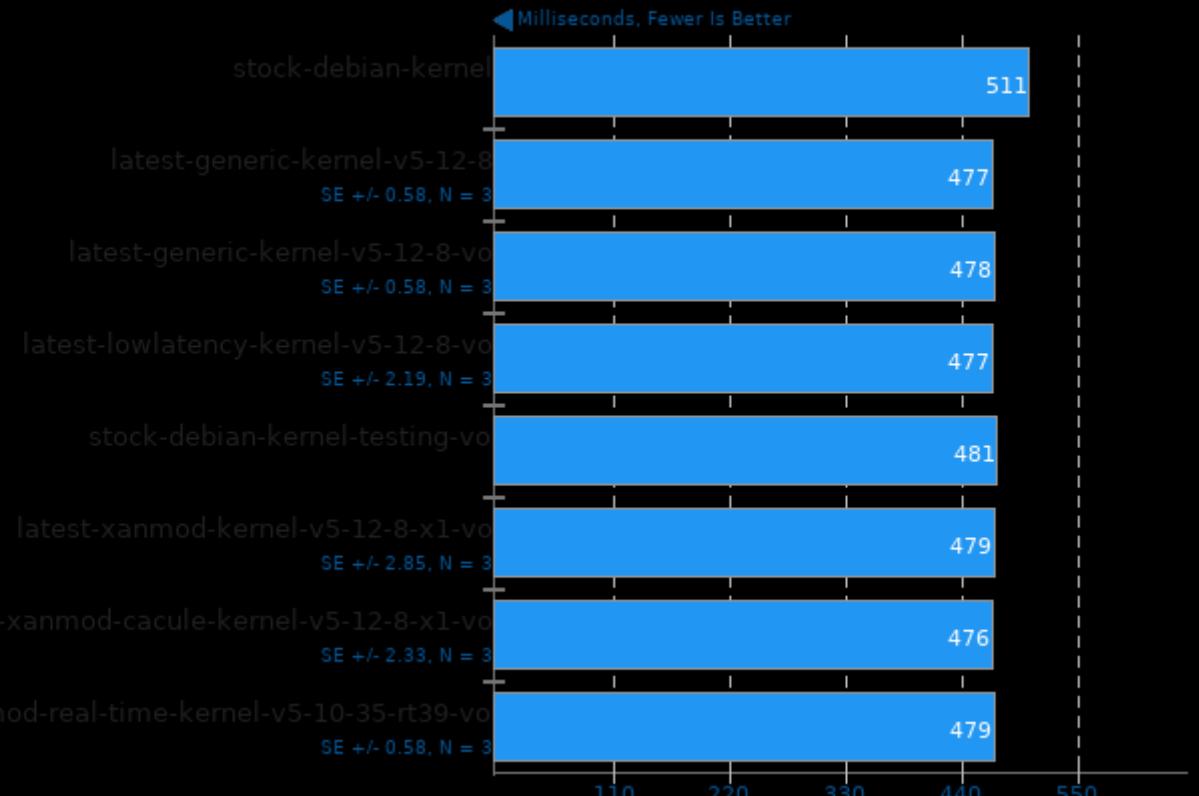
PyPerformance 1.0.0

Benchmark: django_template



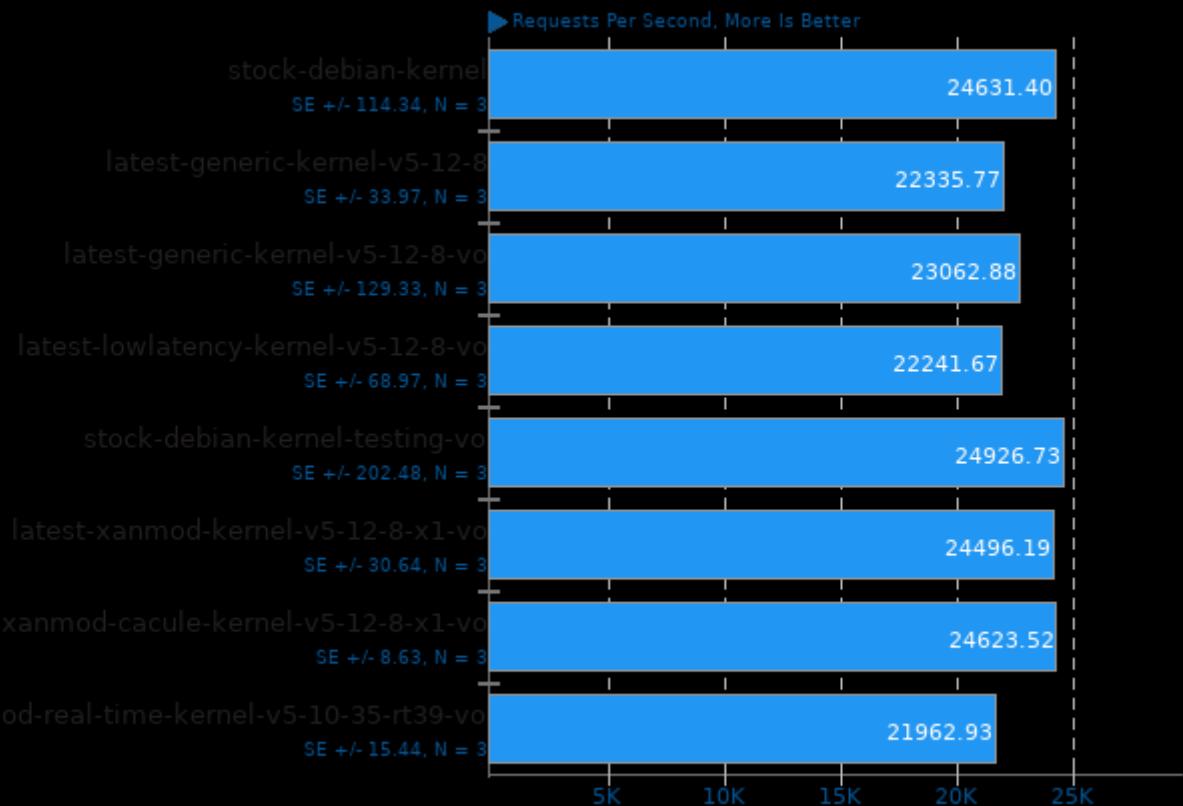
PyPerformance 1.0.0

Benchmark: pickle_pure_python



NGINX Benchmark 1.9.9

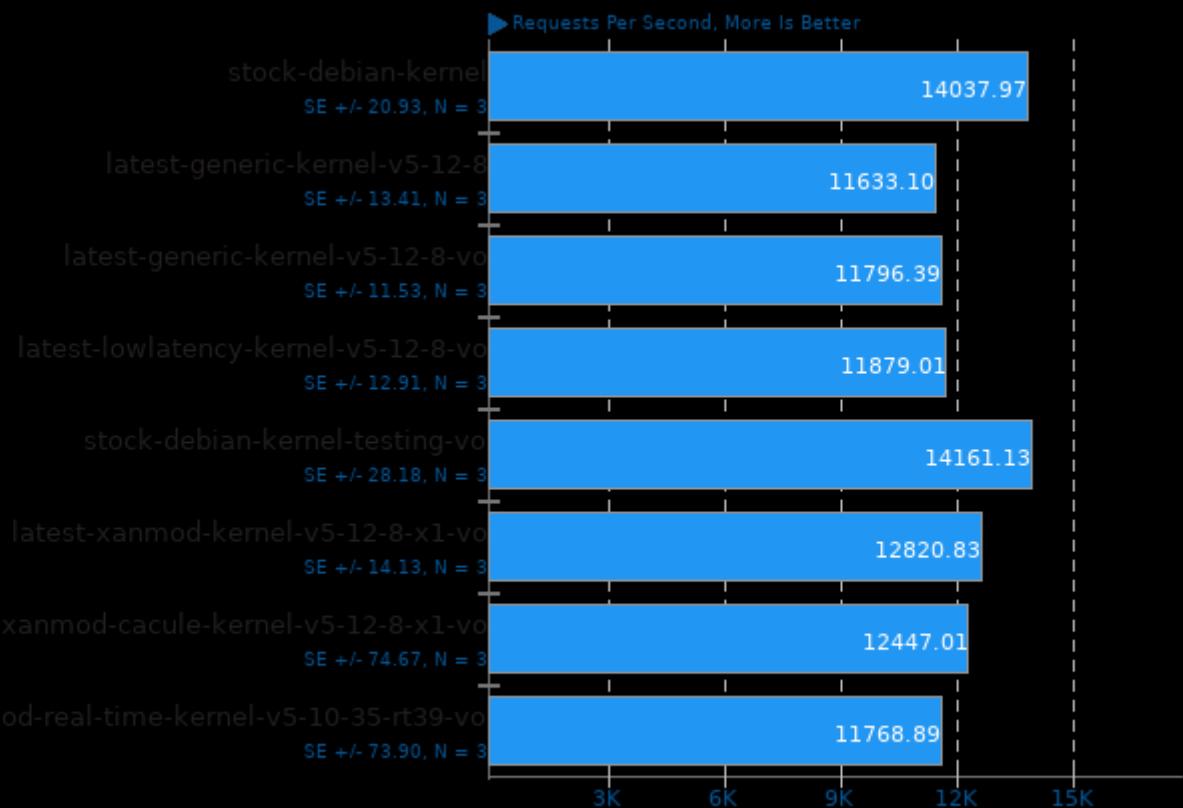
Static Web Page Serving



1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz -O3 -march=native

Apache Benchmark 2.4.29

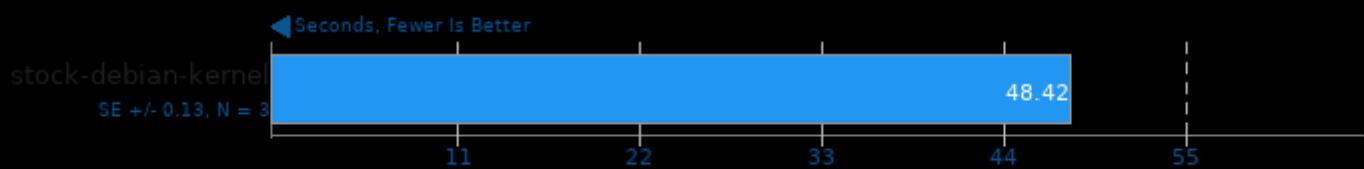
Static Web Page Serving



1. (CC) gcc options: -shared -fPIC -O2 -pthread

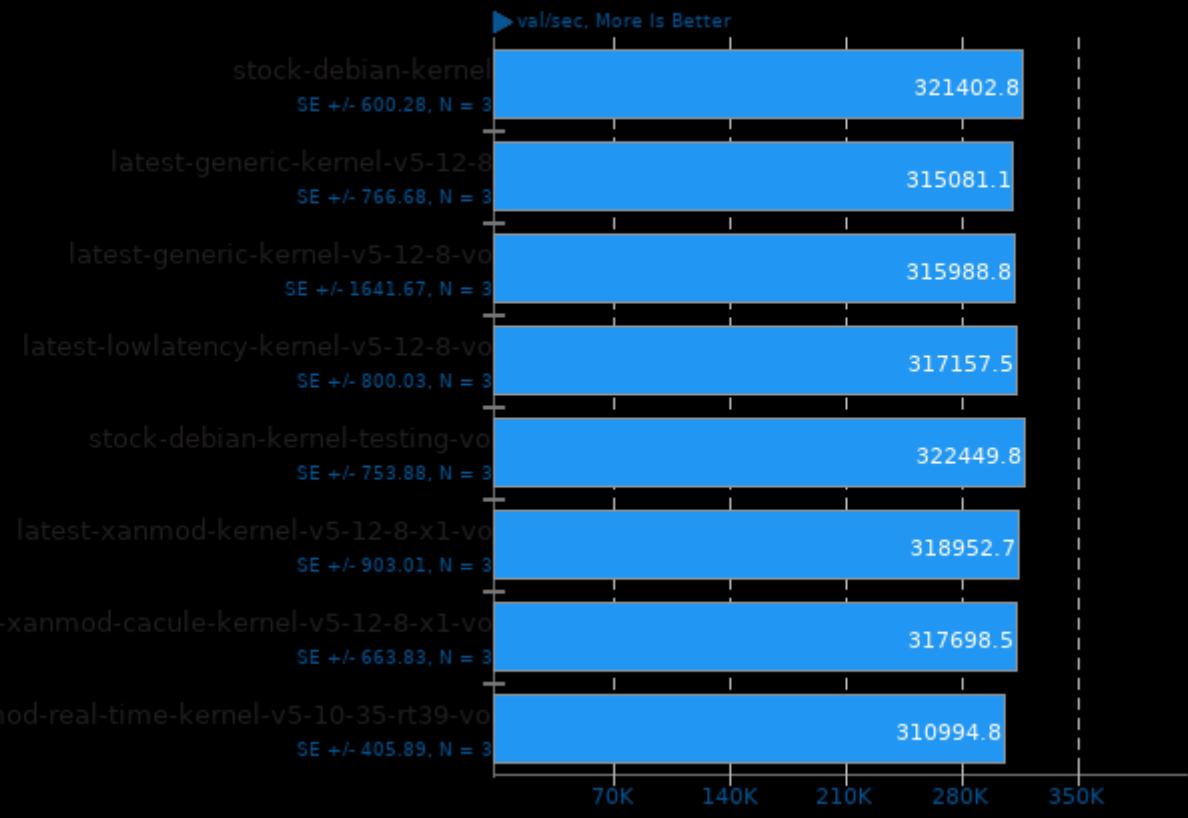
Tesseract OCR 4.0.0

Time To OCR 7 Images



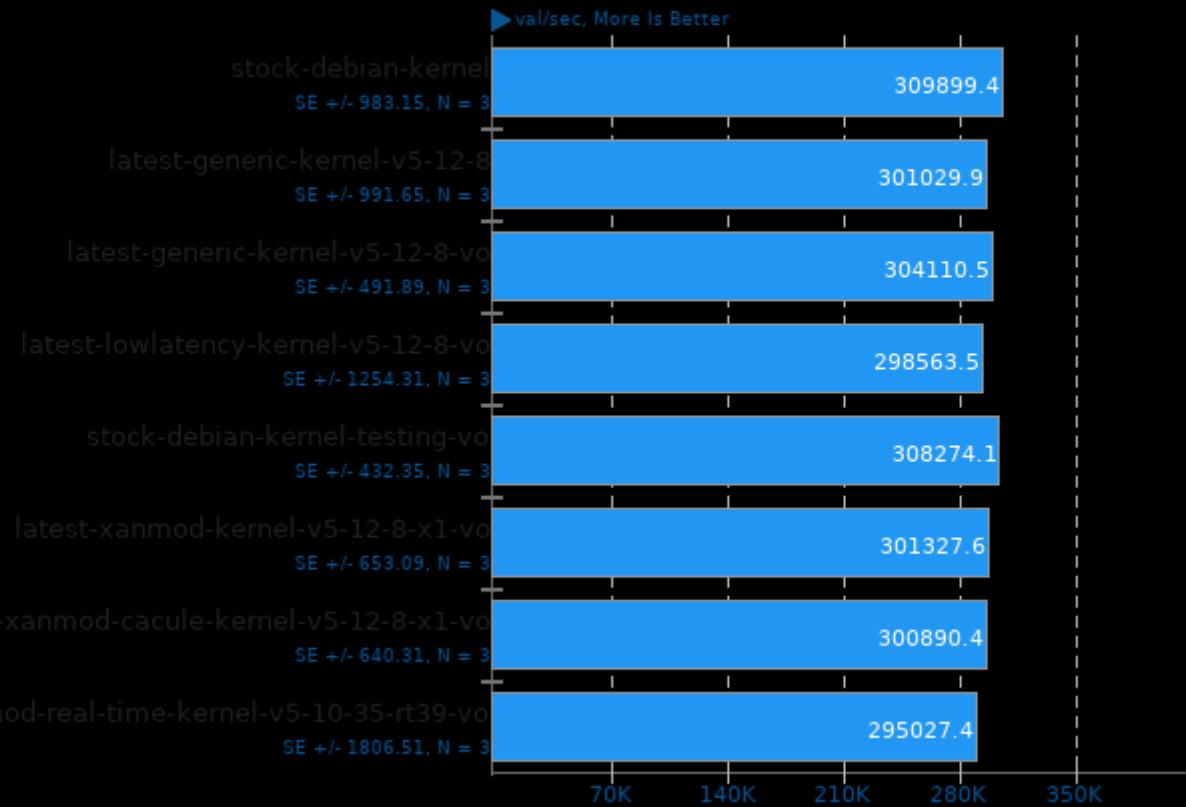
InfluxDB 1.8.2

Concurrent Streams: 4 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



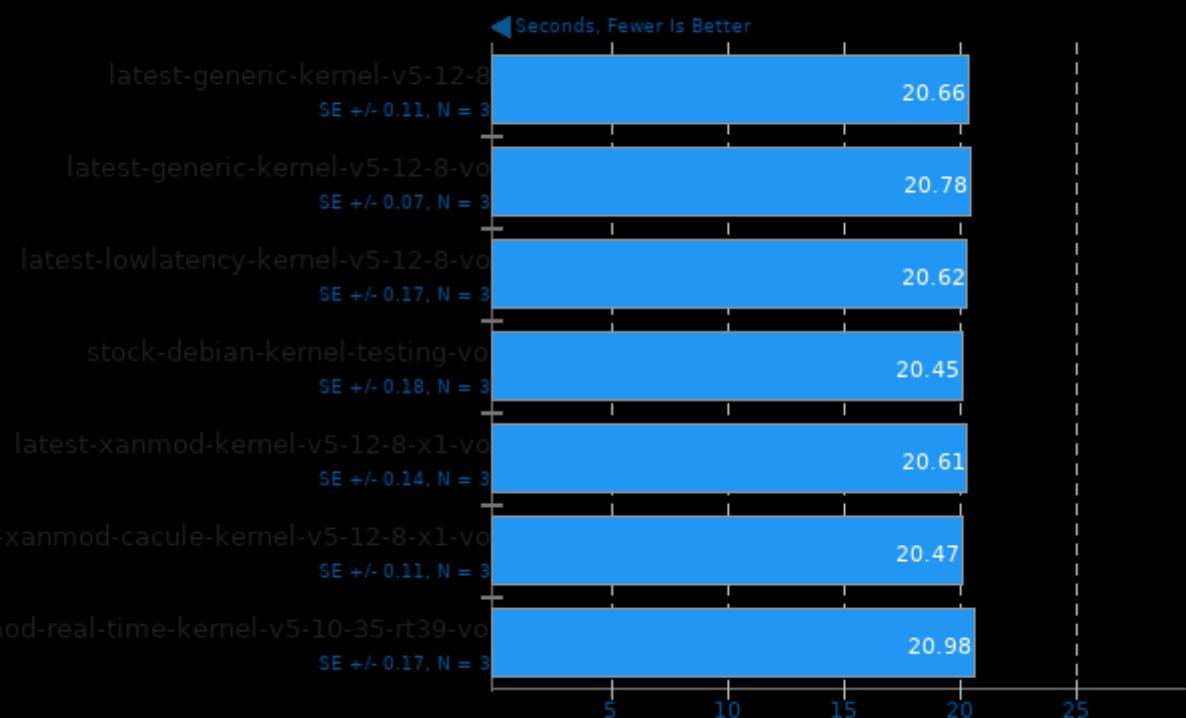
InfluxDB 1.8.2

Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



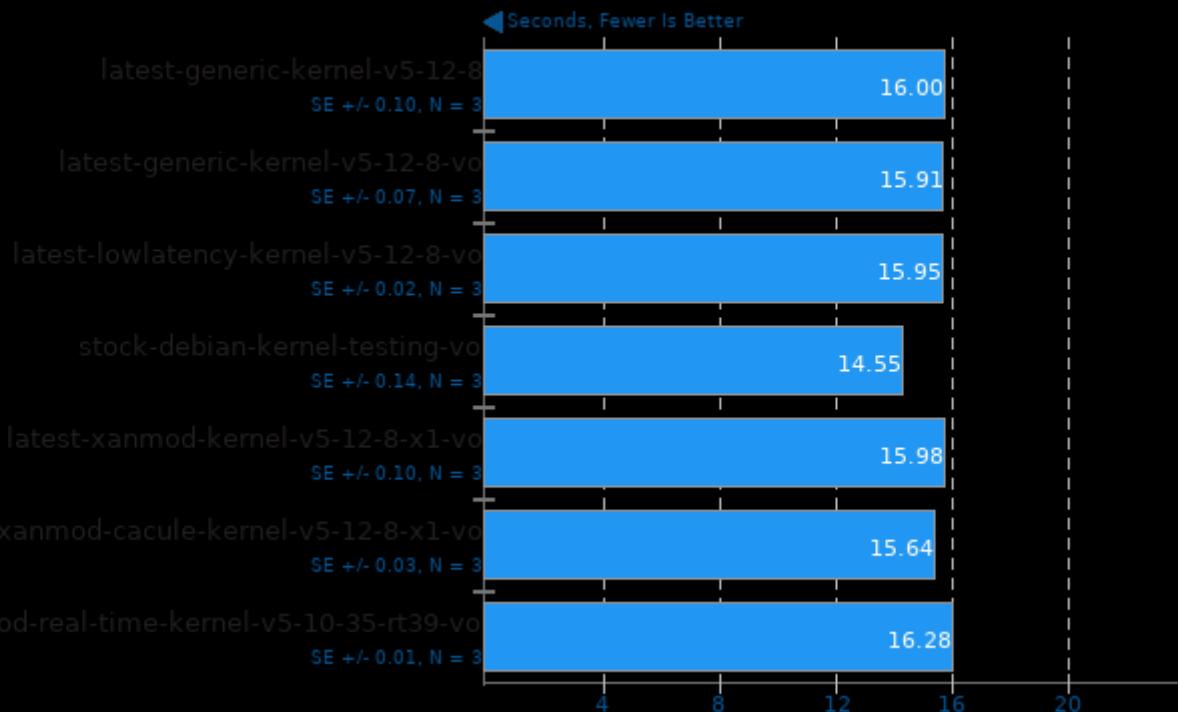
GIMP 2.10.22

Test: resize

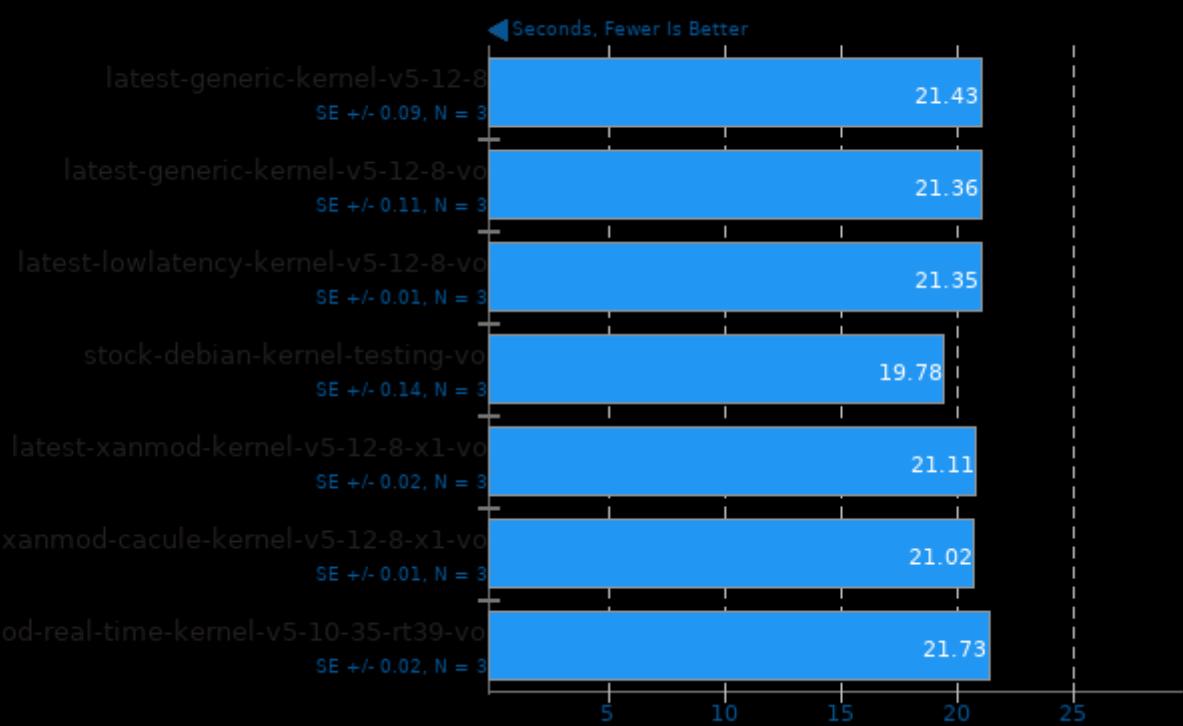


GIMP 2.10.22

Test: rotate

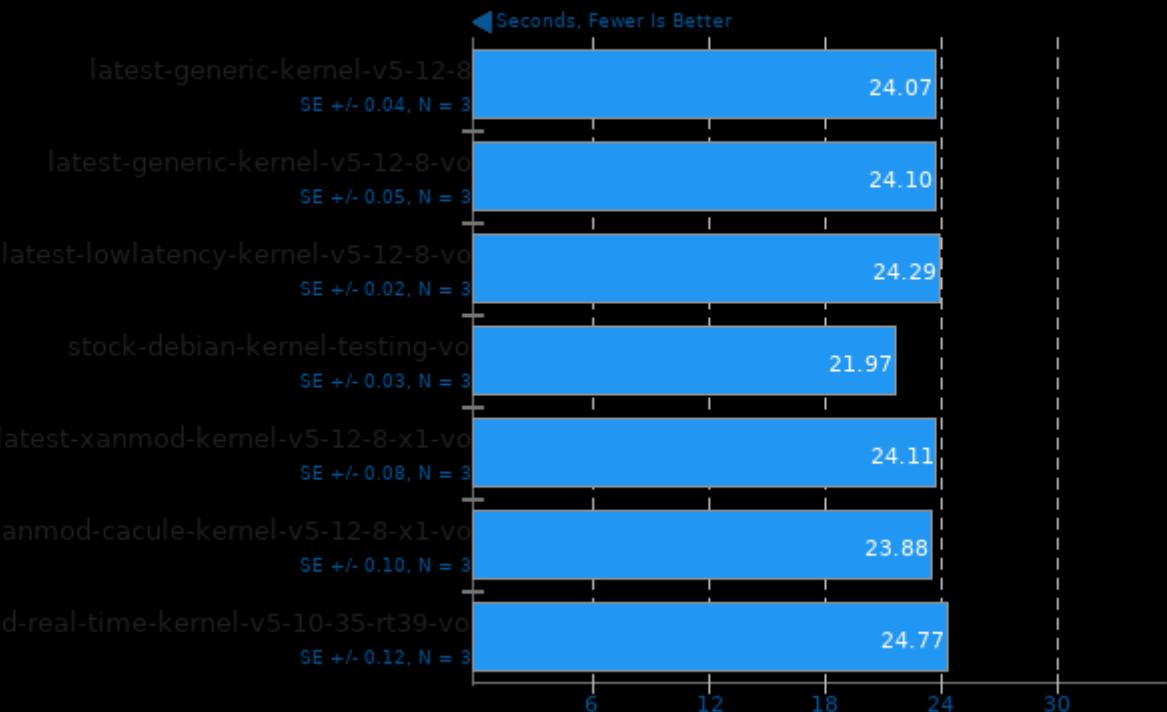
**GIMP 2.10.22**

Test: auto-levels



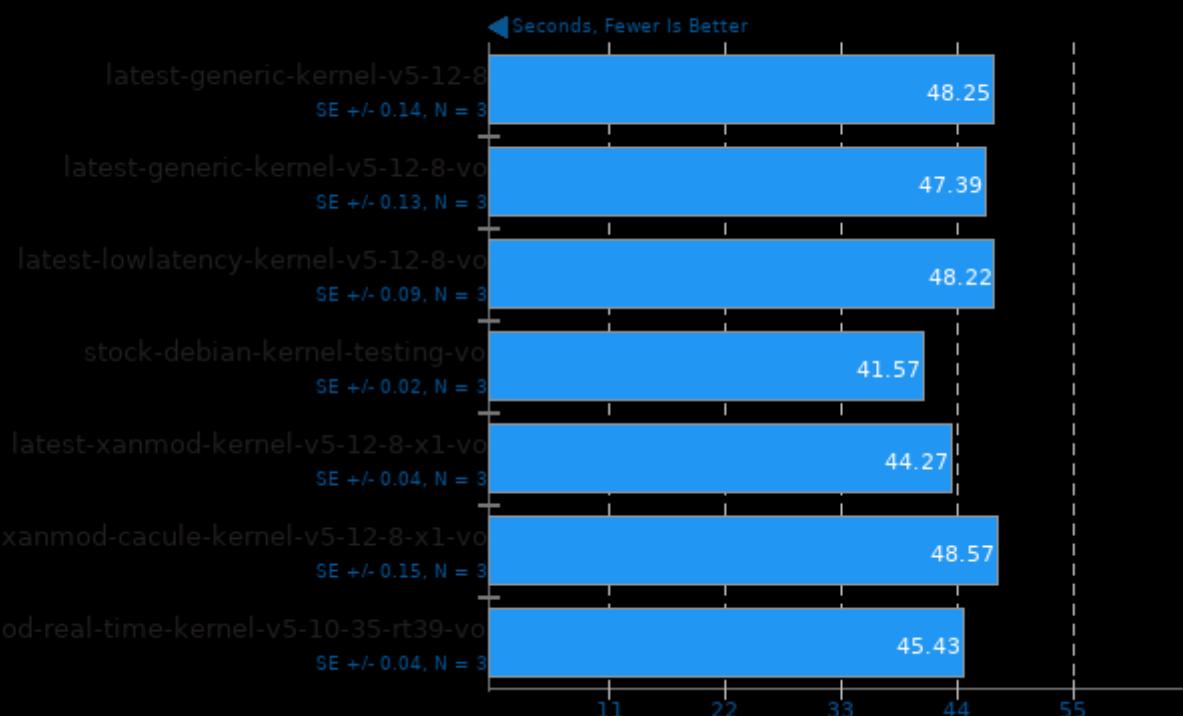
GIMP 2.10.22

Test: unsharp-mask

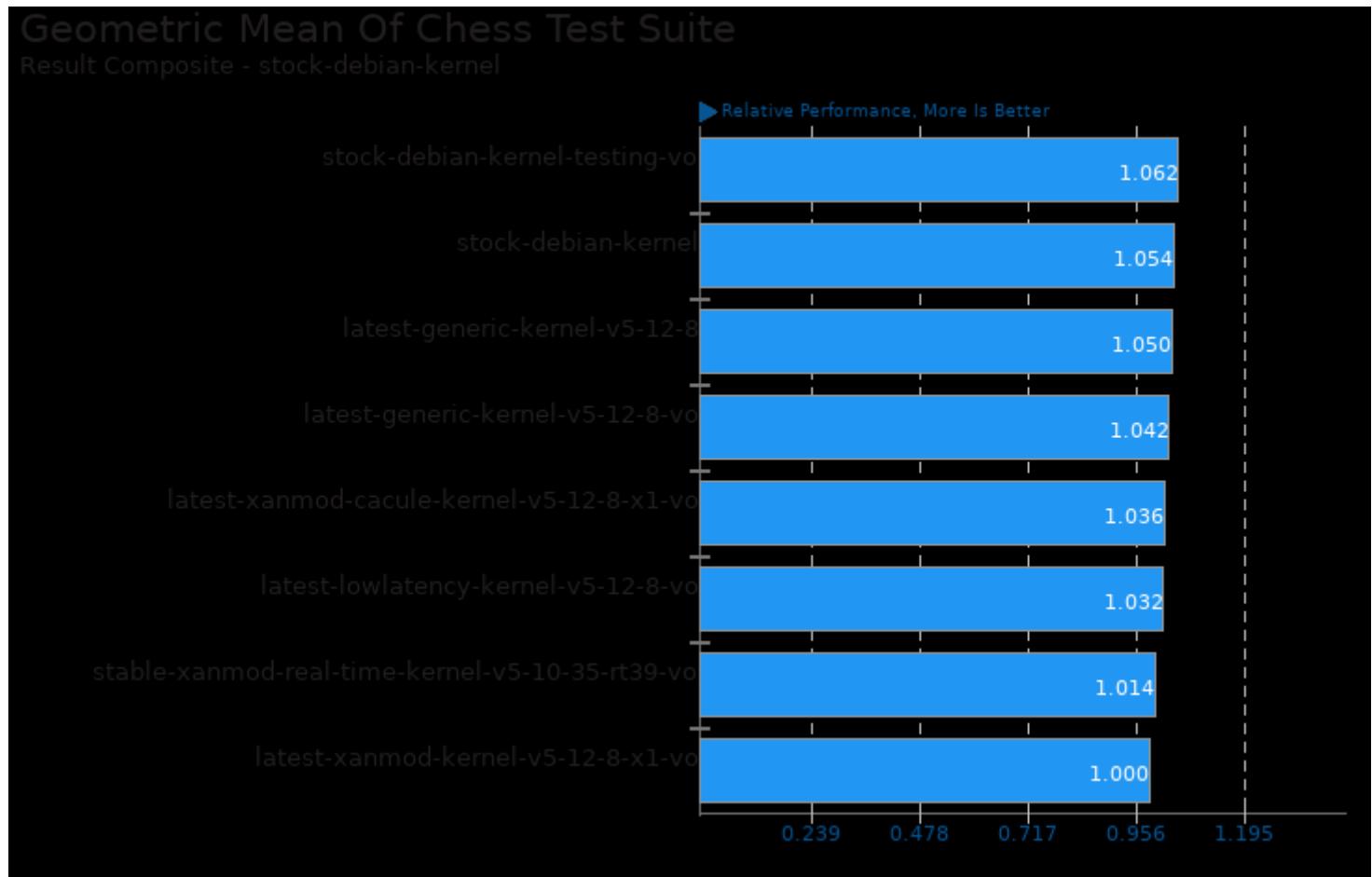


Tesseract OCR 4.1.1

Time To OCR 7 Images



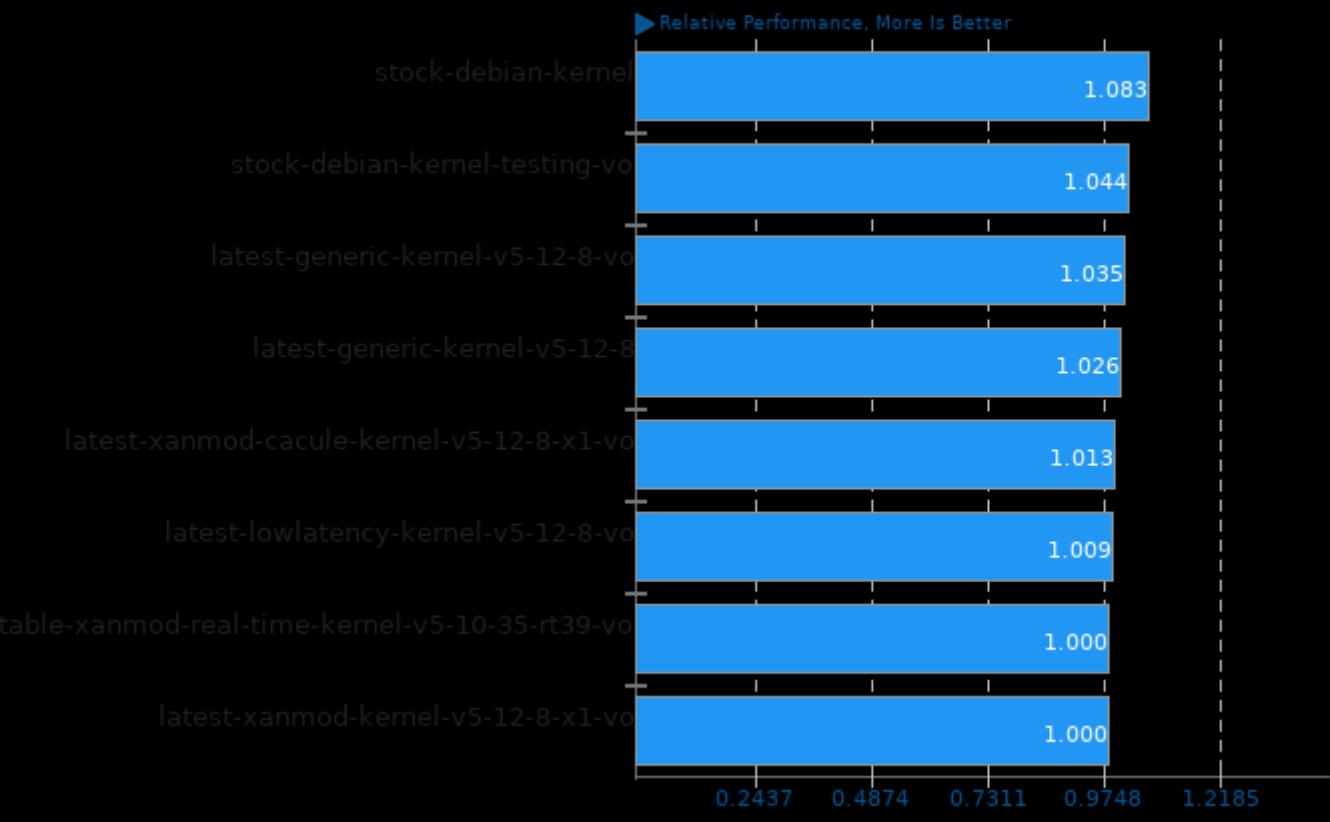
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/crafty and pts/stockfish

Geometric Mean Of Timed Code Compilation Tests

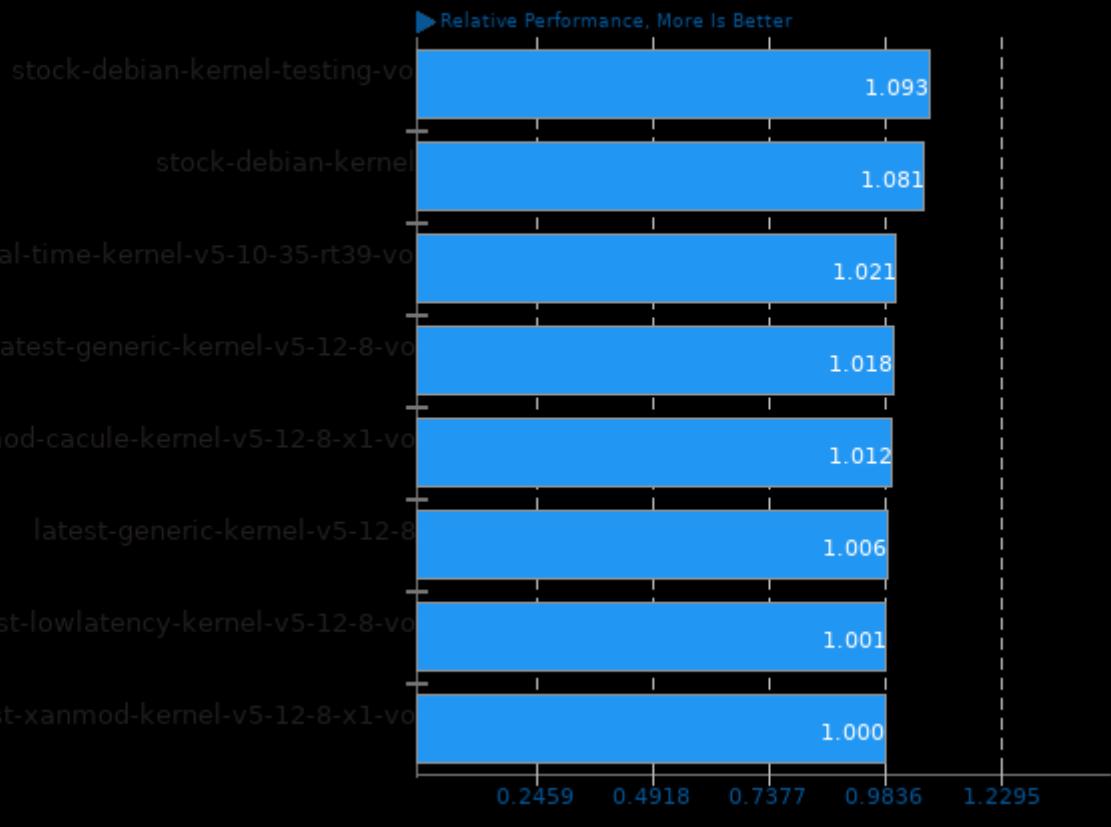
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/build-php and pts/build-linux-kernel

Geometric Mean Of C/C++ Compiler Tests

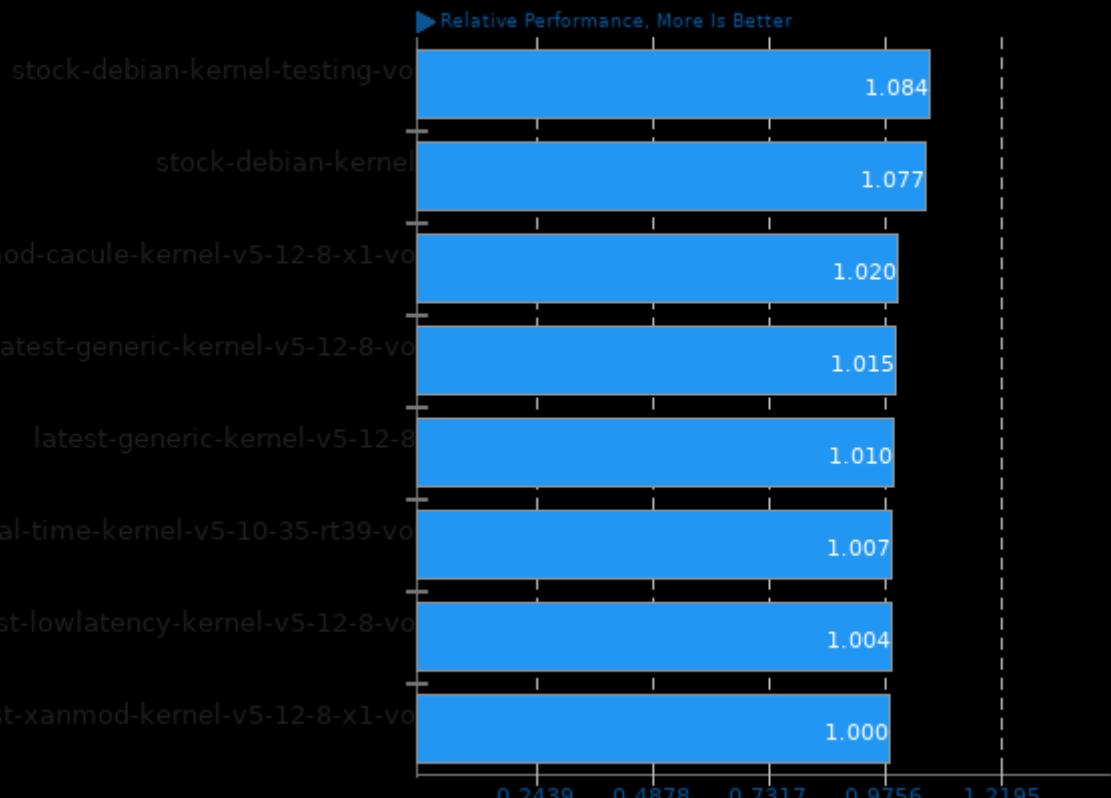
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/fftw, pts/graphics-magick, pts/stockfish, pts/build-php, pts/c-ray, pts/compress-7zip, pts/pgbench, pts/apache, pts/sqlite-speedtest, pts/john-the-ripper, pts/x264, pts/x265, pts/compress-zstd, pts/openssl, pts/nginx and pts/cryptopp

Geometric Mean Of Compression Tests

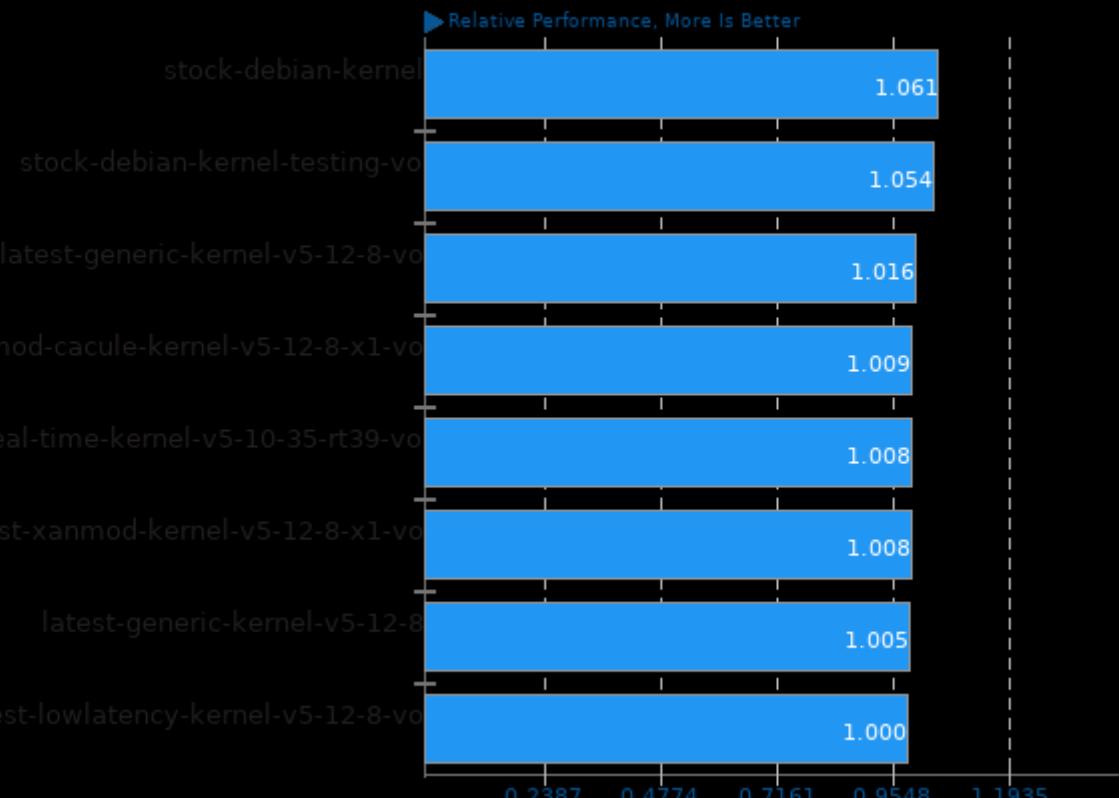
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/compress-7zip, pts/compress-zstd and pts/compress-lz4

Geometric Mean Of Creator Workloads Tests

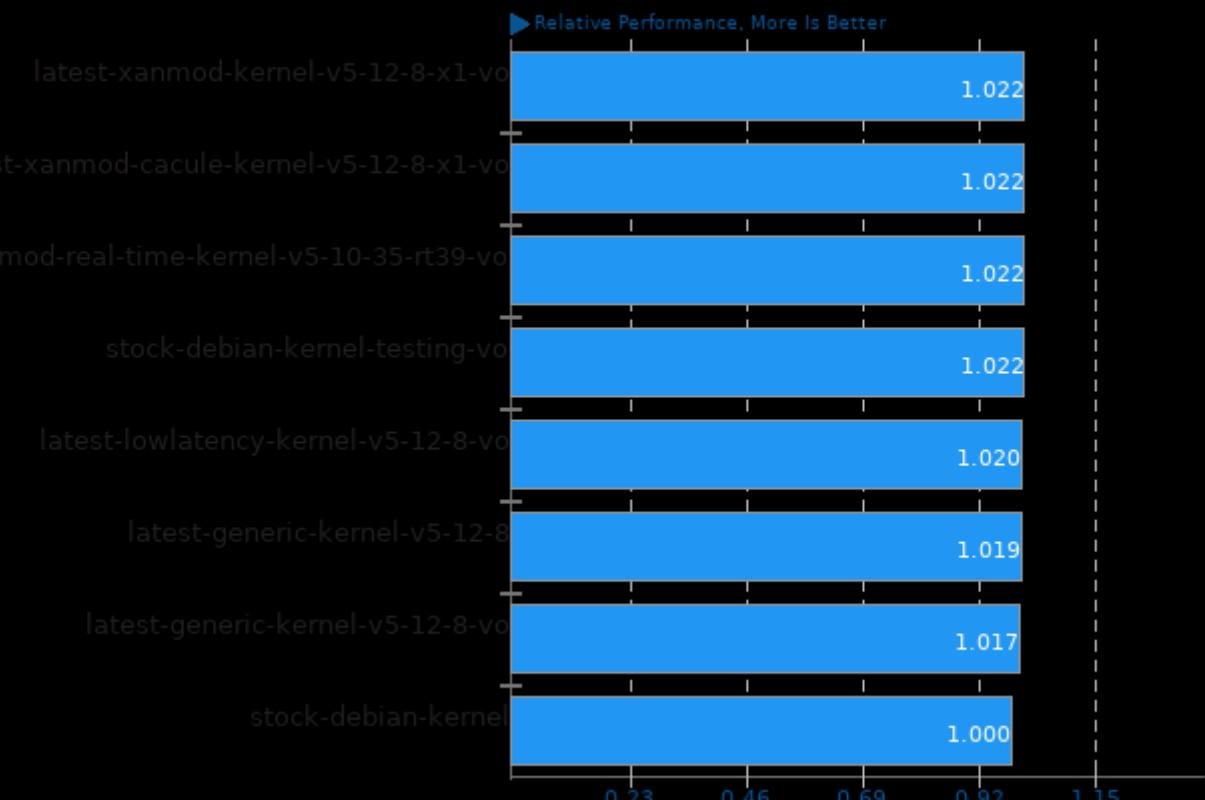
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/c-ray, pts/blender, system/tesseract-ocr, pts/x264, pts/x265, pts/ffmpeg, pts/encode-opus, pts/graphics-magick, system/gimp and pts/onnednn

Geometric Mean Of Cryptography Tests

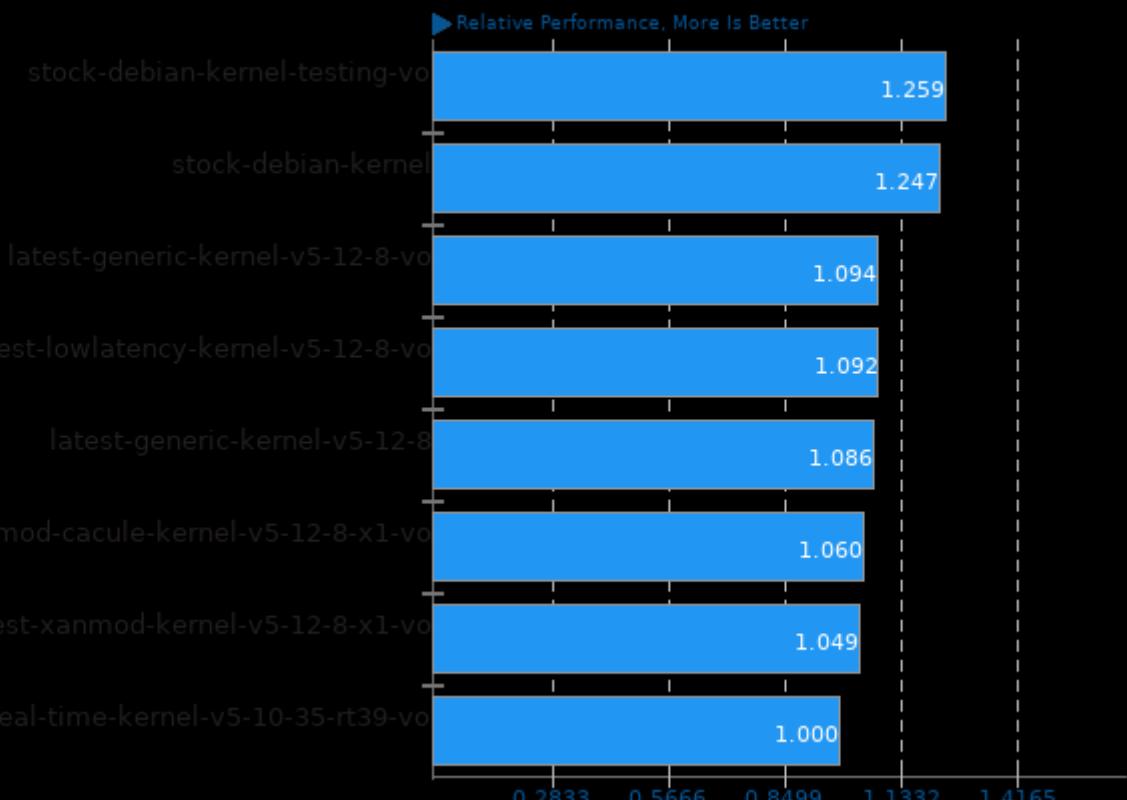
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/openssl, pts/john-the-ripper, pts/botan and pts/cryptopp

Geometric Mean Of Database Test Suite

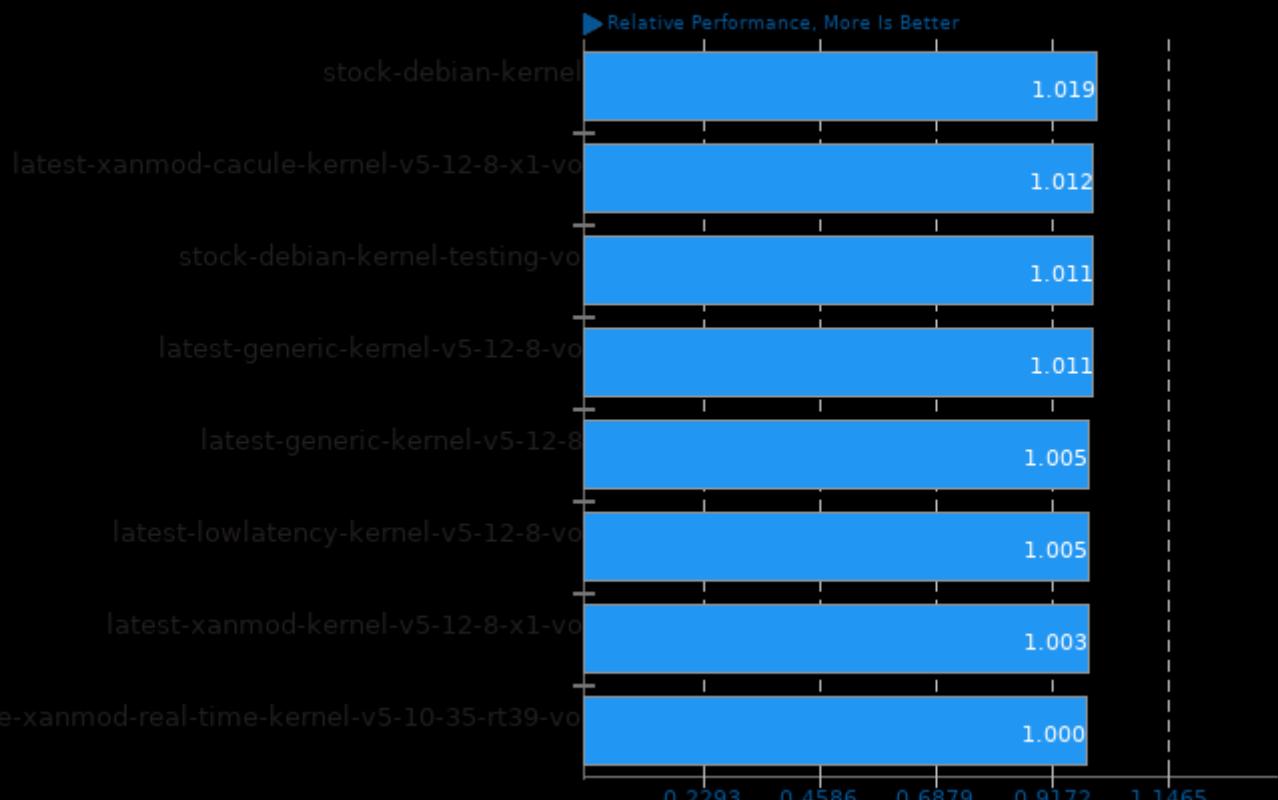
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/sqlite, pts/sqlite-speedtest, pts/redis, pts/cassandra, pts/pgbench, pts/mysqlslap and pts/influxdb

Geometric Mean Of Encoding Tests

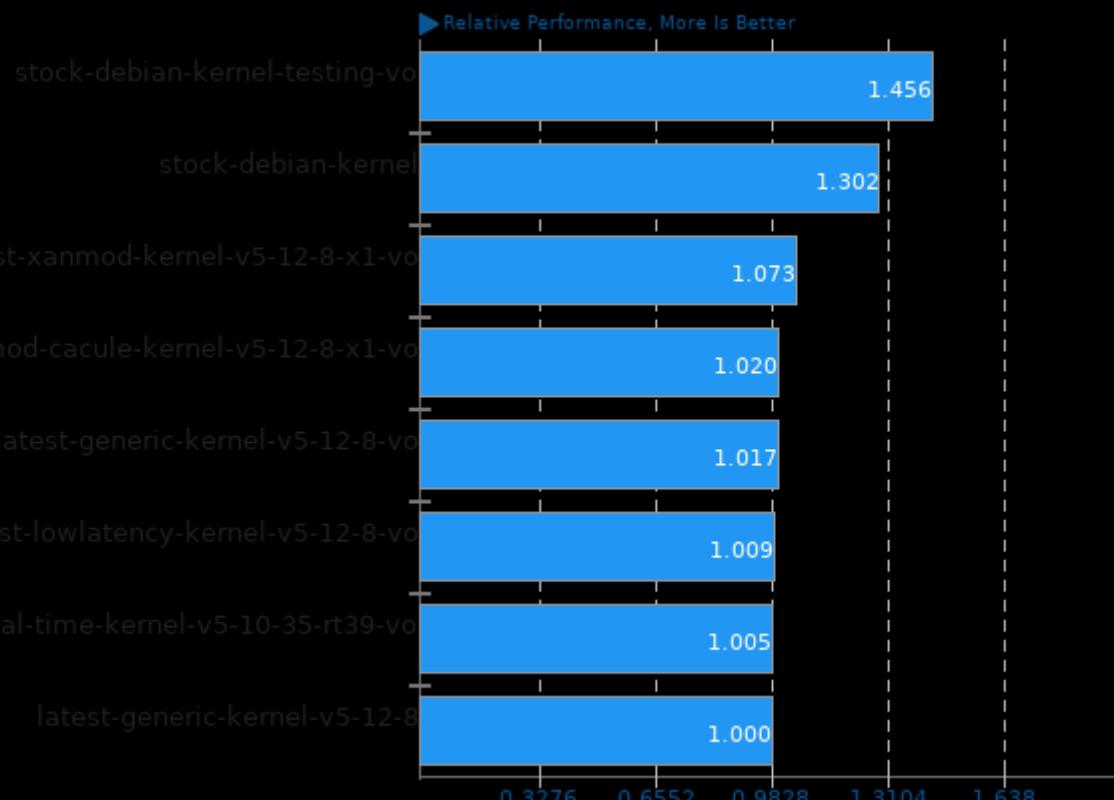
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/encode-opus, pts/x264, pts/x265 and pts/ffmpeg

Geometric Mean Of Go Language Tests

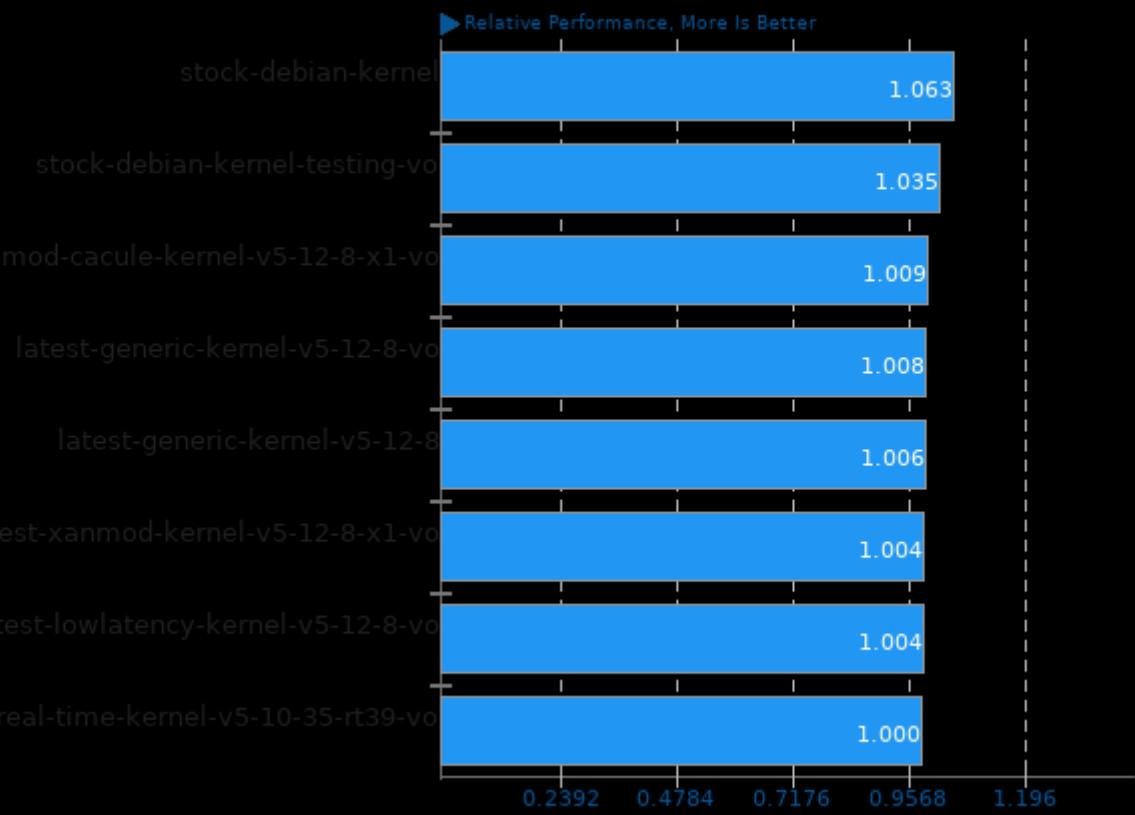
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/ethr and pts/influxdb

Geometric Mean Of HPC - High Performance Computing Tests

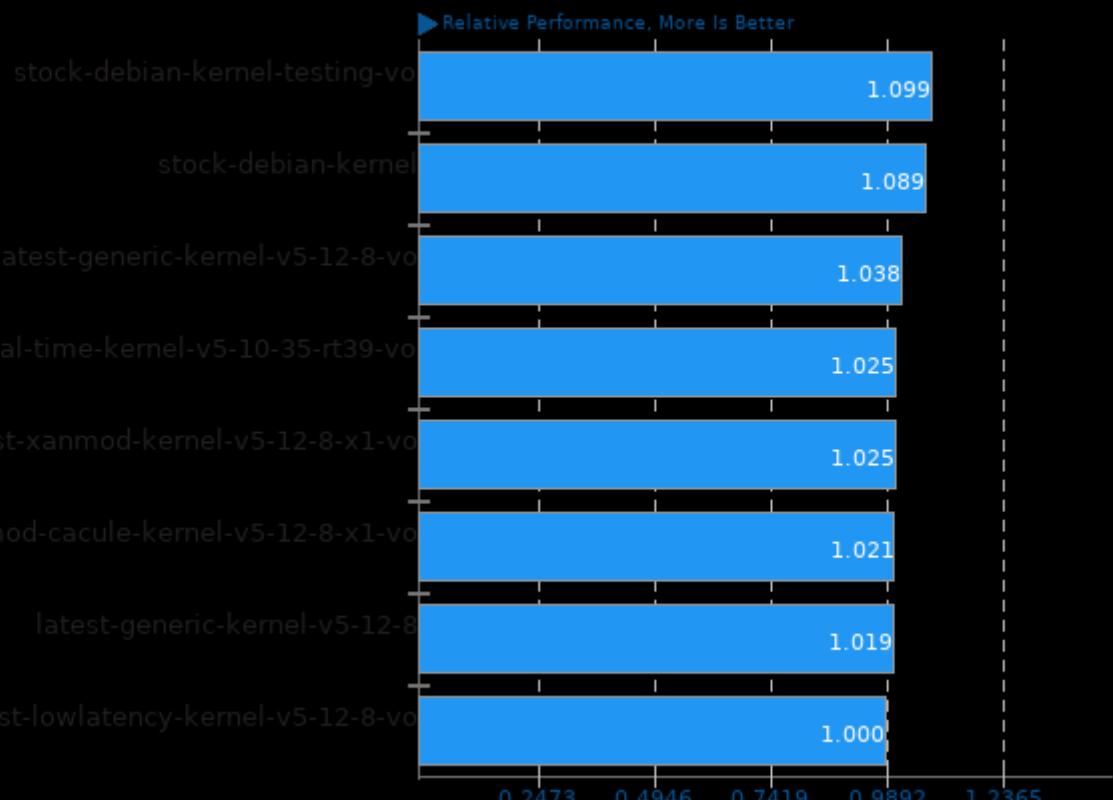
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/hpcc, pts/hpcg, pts/fftw, pts/caffe, pts/numpy, pts/tensorflow and pts/onnednn

Geometric Mean Of Imaging Tests

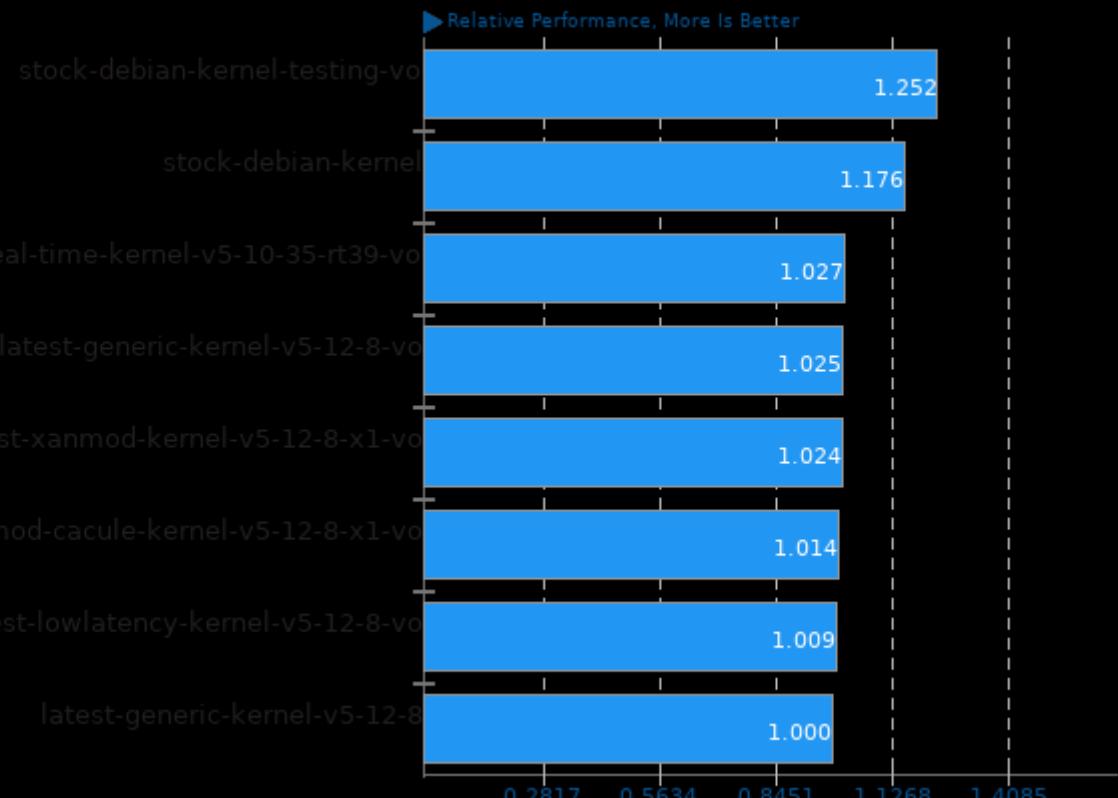
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/graphics-magick and system/gimp

Geometric Mean Of Common Kernel Benchmarks Tests

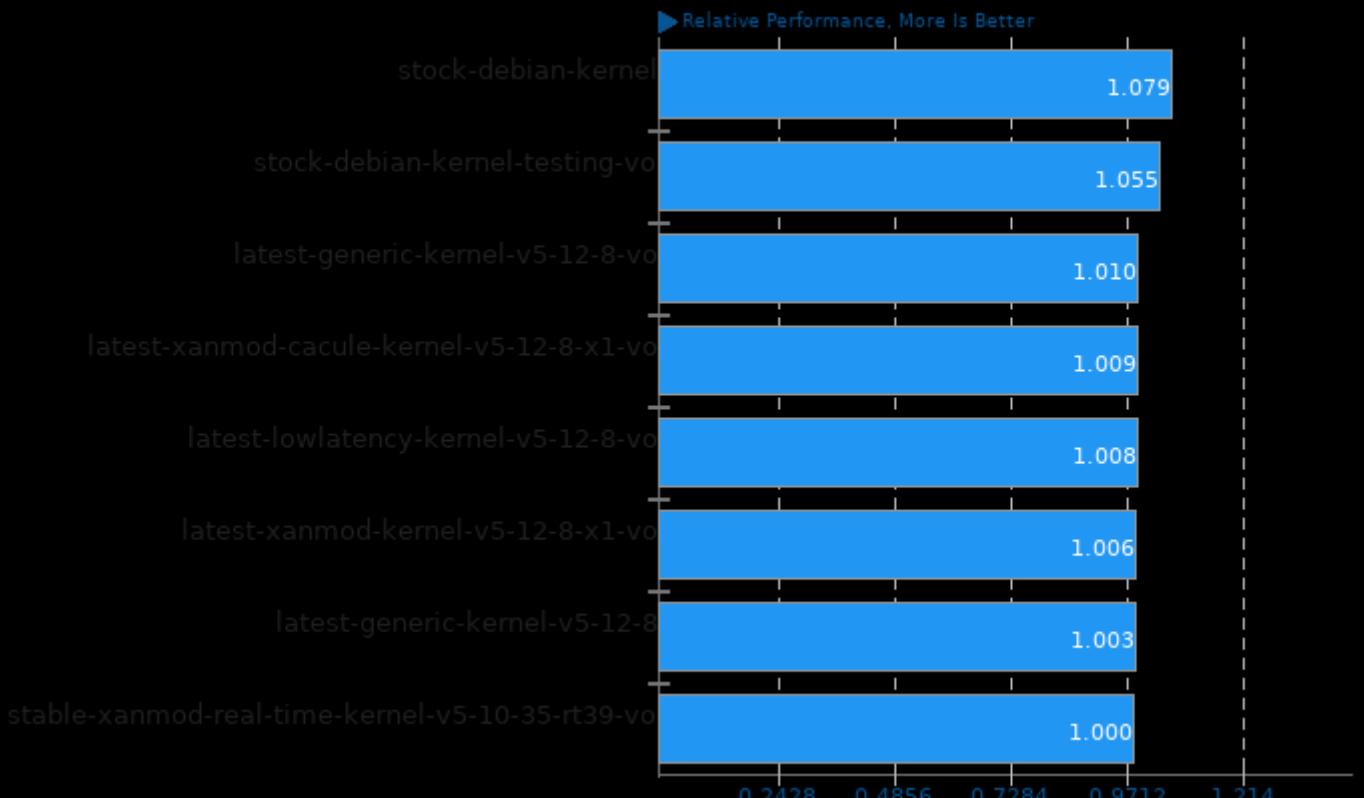
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/apache, pts/sqlite-speedtest, pts/pgbench, pts/tinymembench, pts/t-test1, pts/openssl, pts/ethr and pts/iperf

Geometric Mean Of Machine Learning Tests

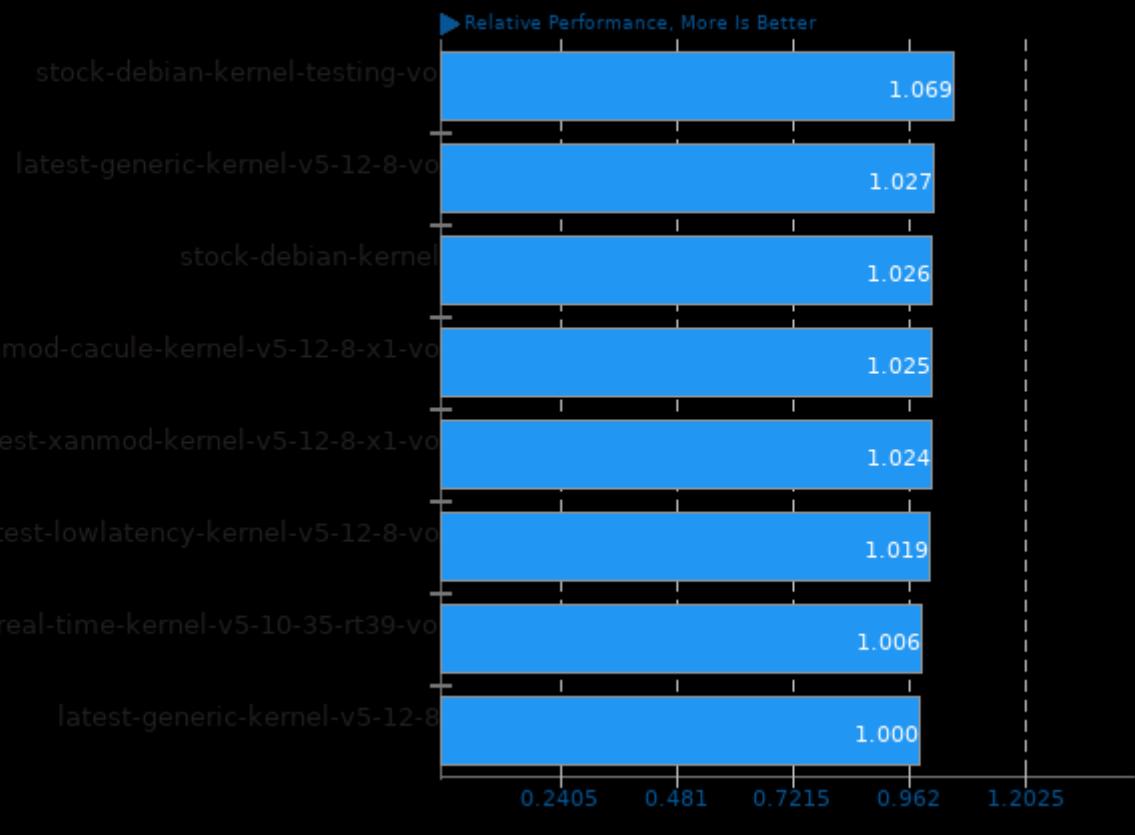
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/caffe, pts/numpy, pts/tensorflow and pts/onnednn

Geometric Mean Of Memory Test Suite

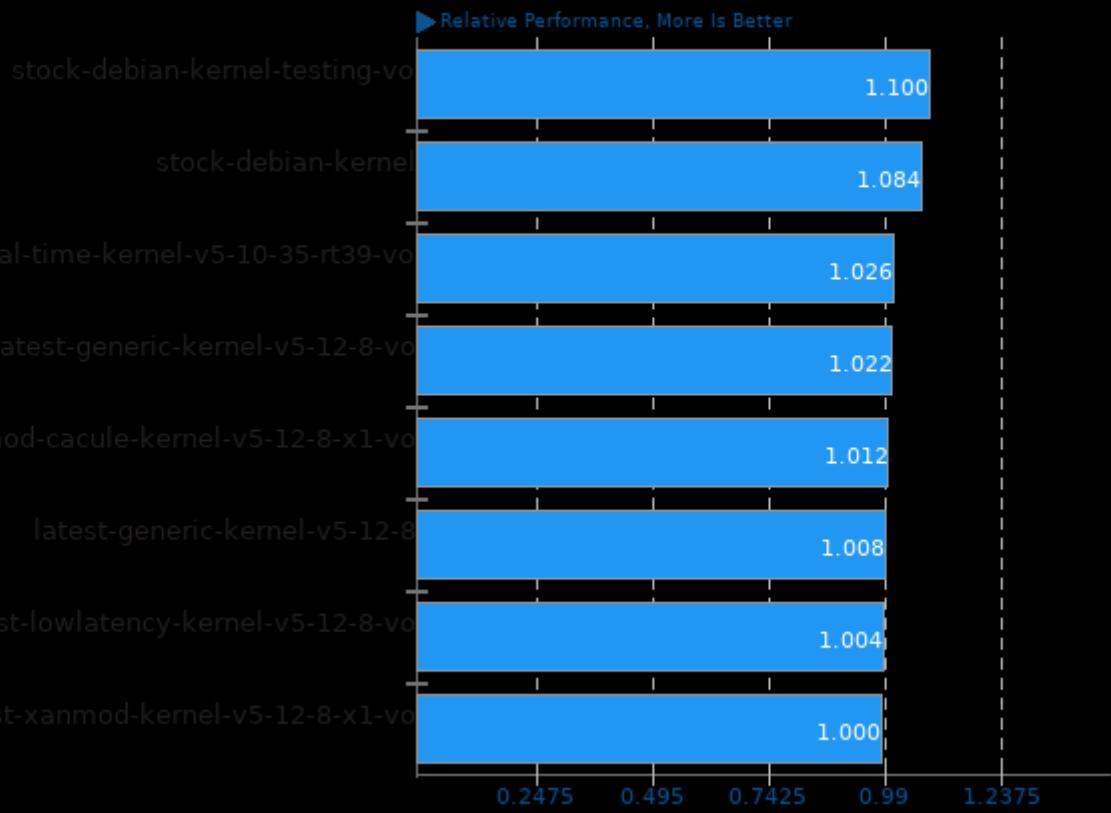
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/ramspeed, pts/stream, pts/t-test1, pts/cachebench and pts/tinymembench

Geometric Mean Of Multi-Core Tests

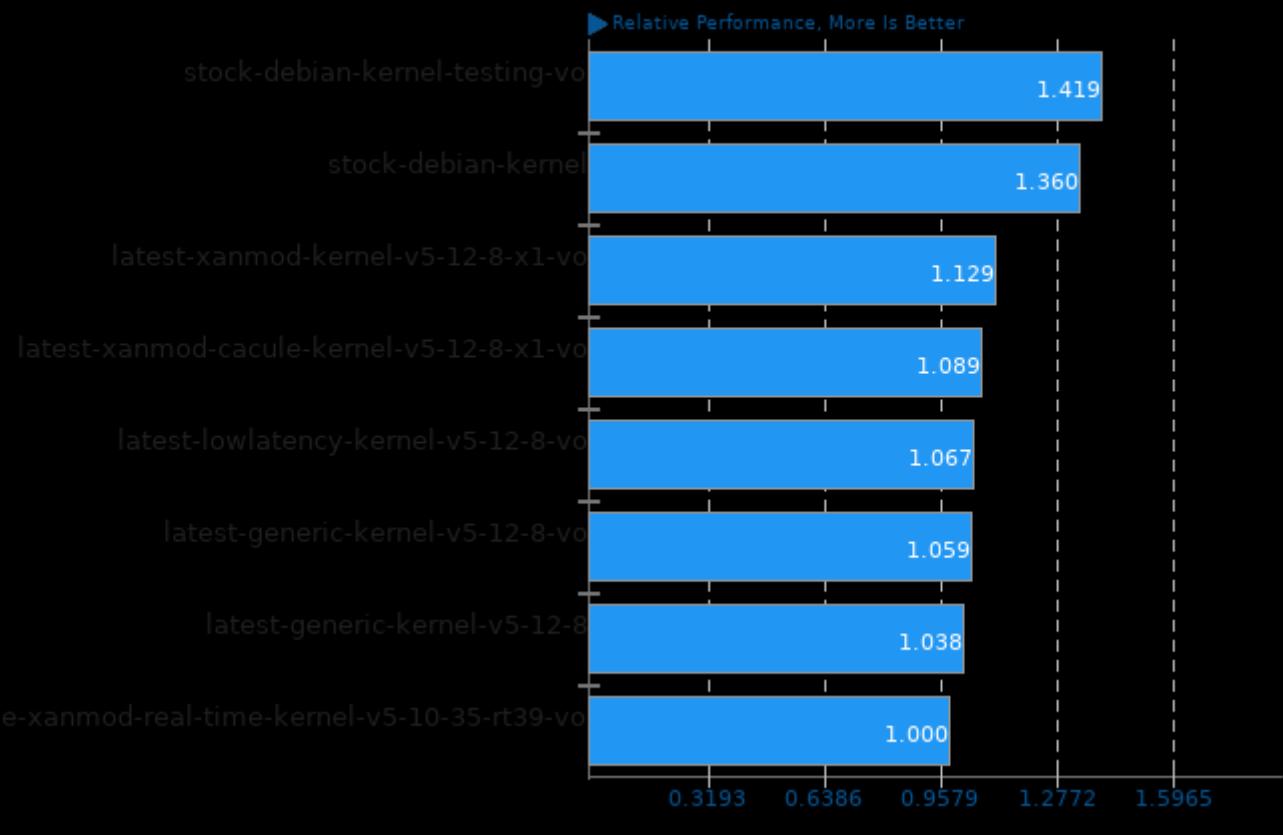
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/blender, pts/sysbench, pts/c-ray, pts/stockfish, pts/x264, pts/x265, pts/ffmpeg, pts/john-the-ripper, pts/graphics-magick, pts/onednn, pts/mysqlslap, pts/compress-7zip, pts/compress-zstd, pts/build-php, pts/build-linux-kernel, pts/hpcg, pts/cassandra and pts/pgbench

Geometric Mean Of Networking Test Suite

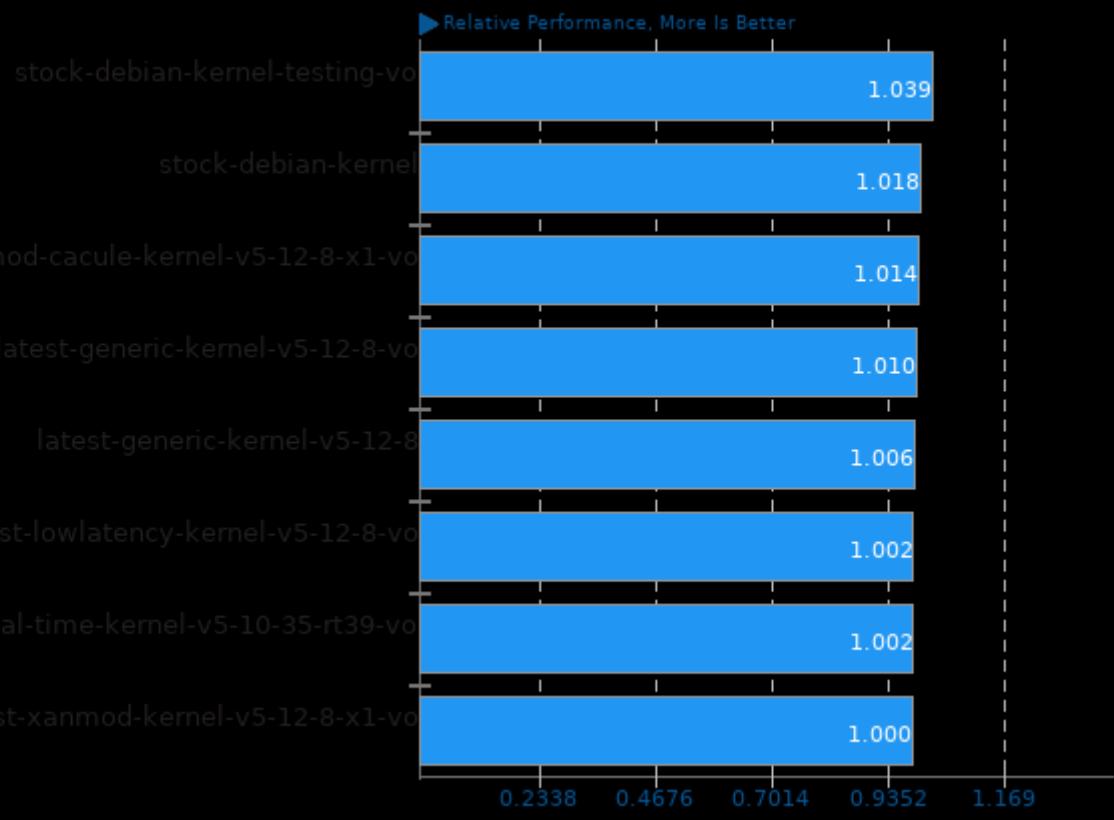
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/sockperf, pts/ethr and pts/iperf

Geometric Mean Of Programmer / Developer System Benchmarks Tests

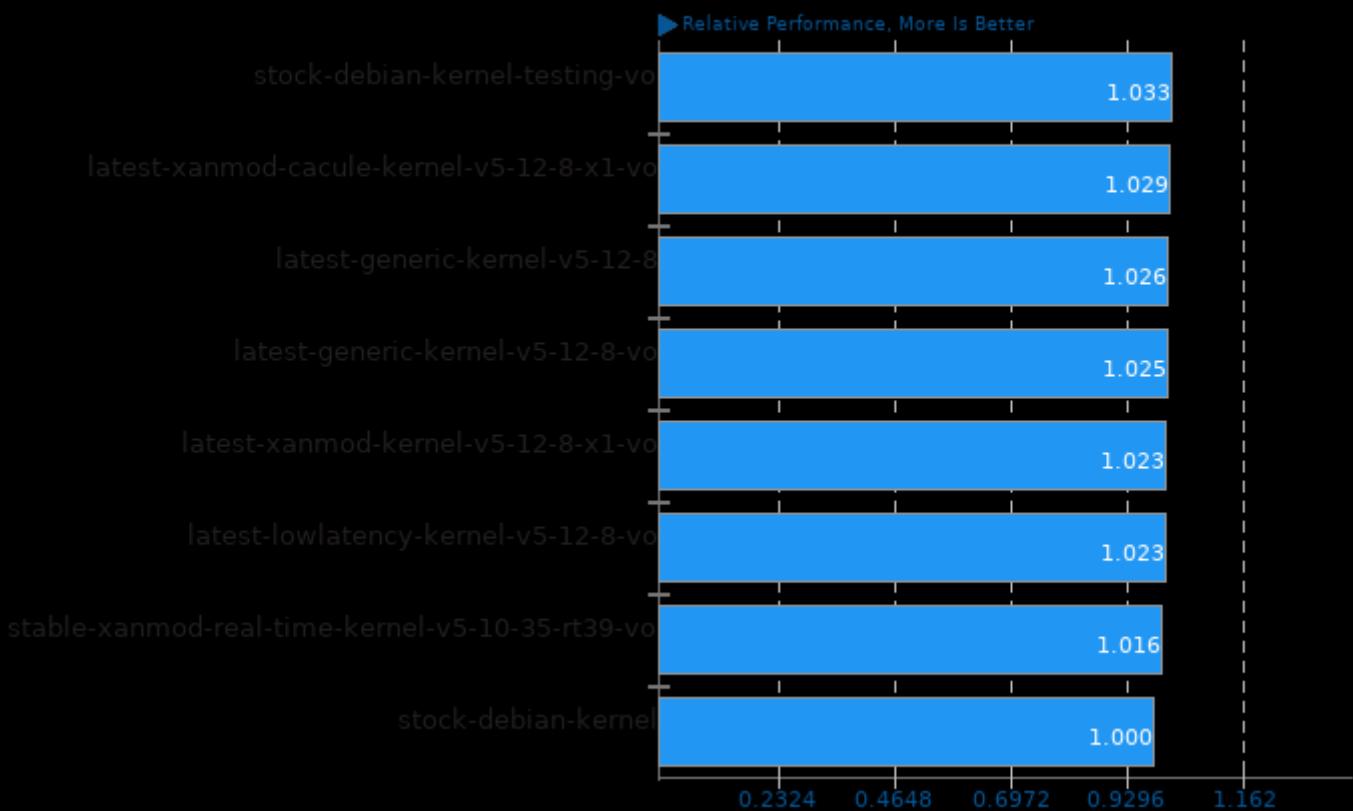
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/sqlite-speedtest, pts/compress-zstd, pts/pyperformance, pts/pybench, pts/build-php, pts/build-linux-kernel and pts/hpcc

Geometric Mean Of Python Tests

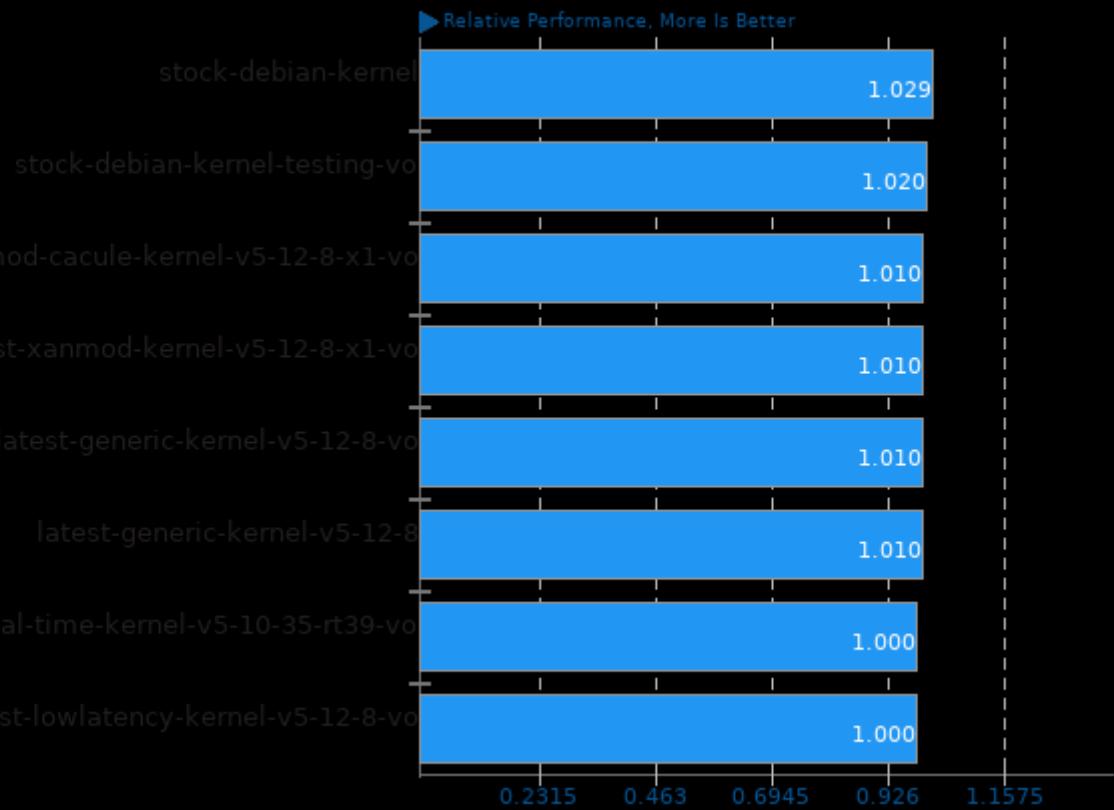
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/pybench, pts/cython-bench, pts/numpy and pts/pyperformance

Geometric Mean Of Renderers Tests

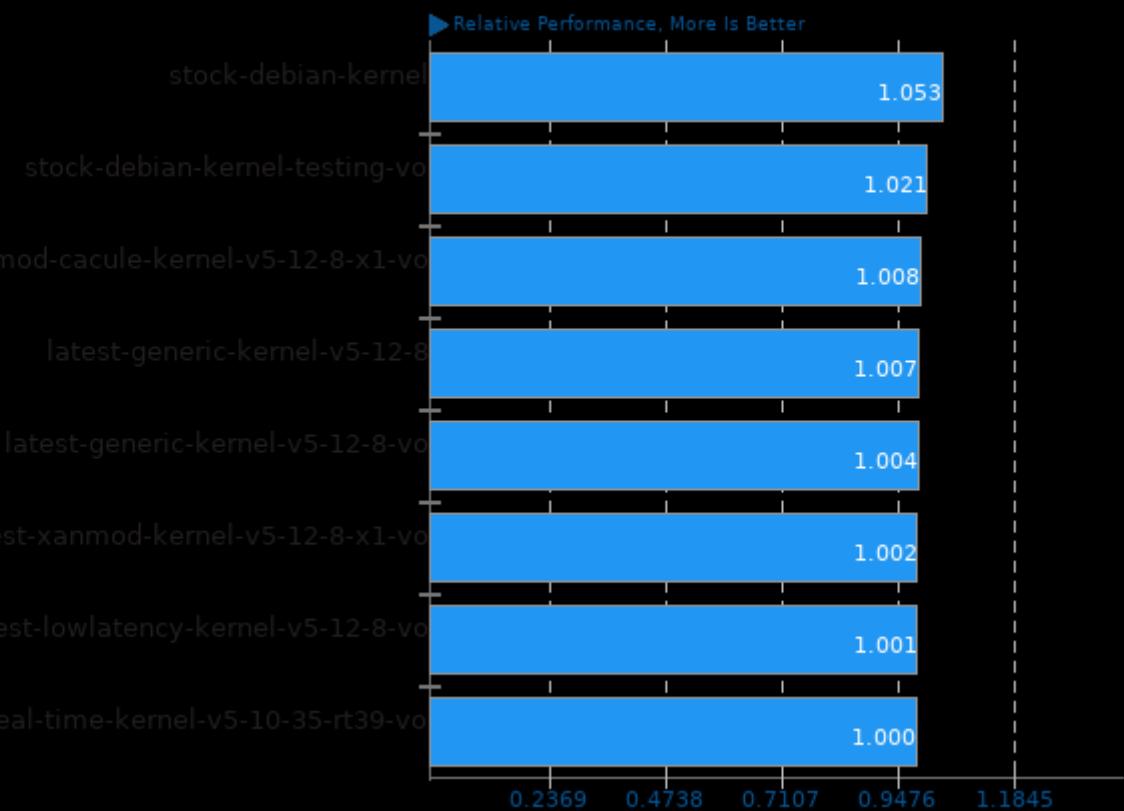
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/c-ray and pts/blender

Geometric Mean Of Scientific Computing Tests

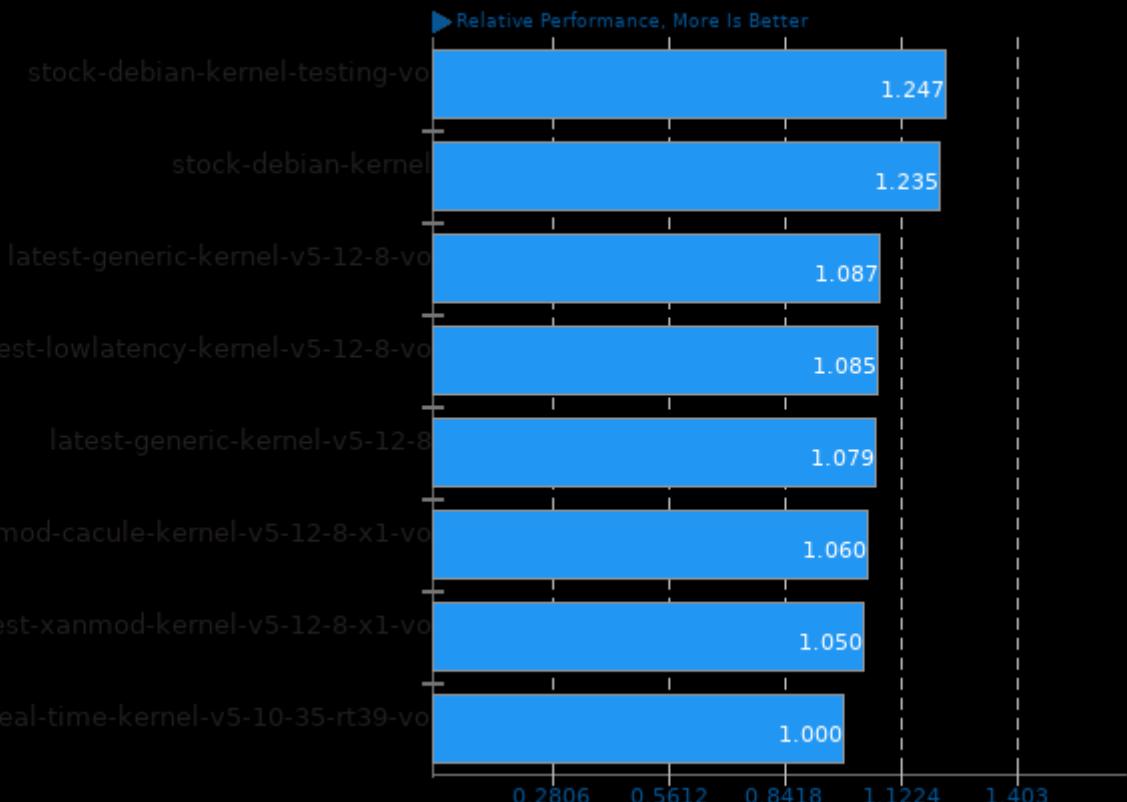
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/fftw and pts/hpcc

Geometric Mean Of Server Tests

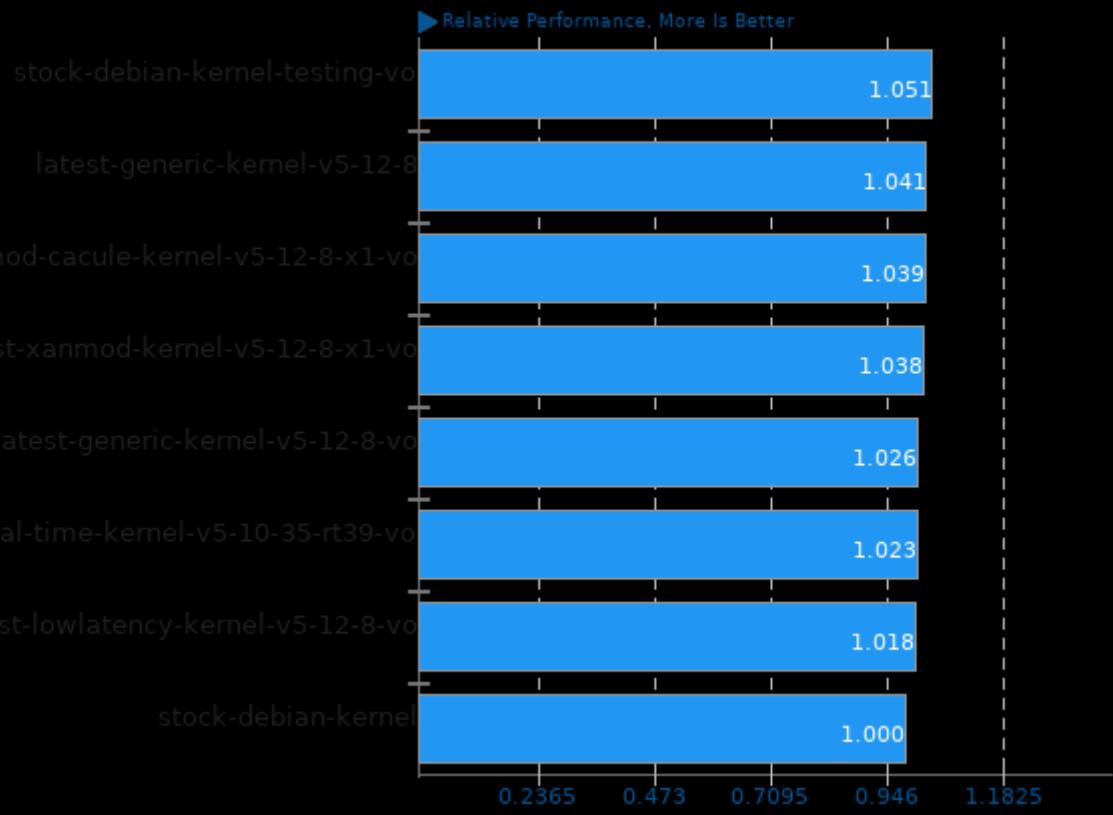
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/apache, pts/nginx, pts/mysqlslap, pts/pgbench, pts/redis, pts/cassandra, pts/openssl, pts/sqlite, pts/sqlite-speedtest and pts/influxdb

Geometric Mean Of Single-Threaded Tests

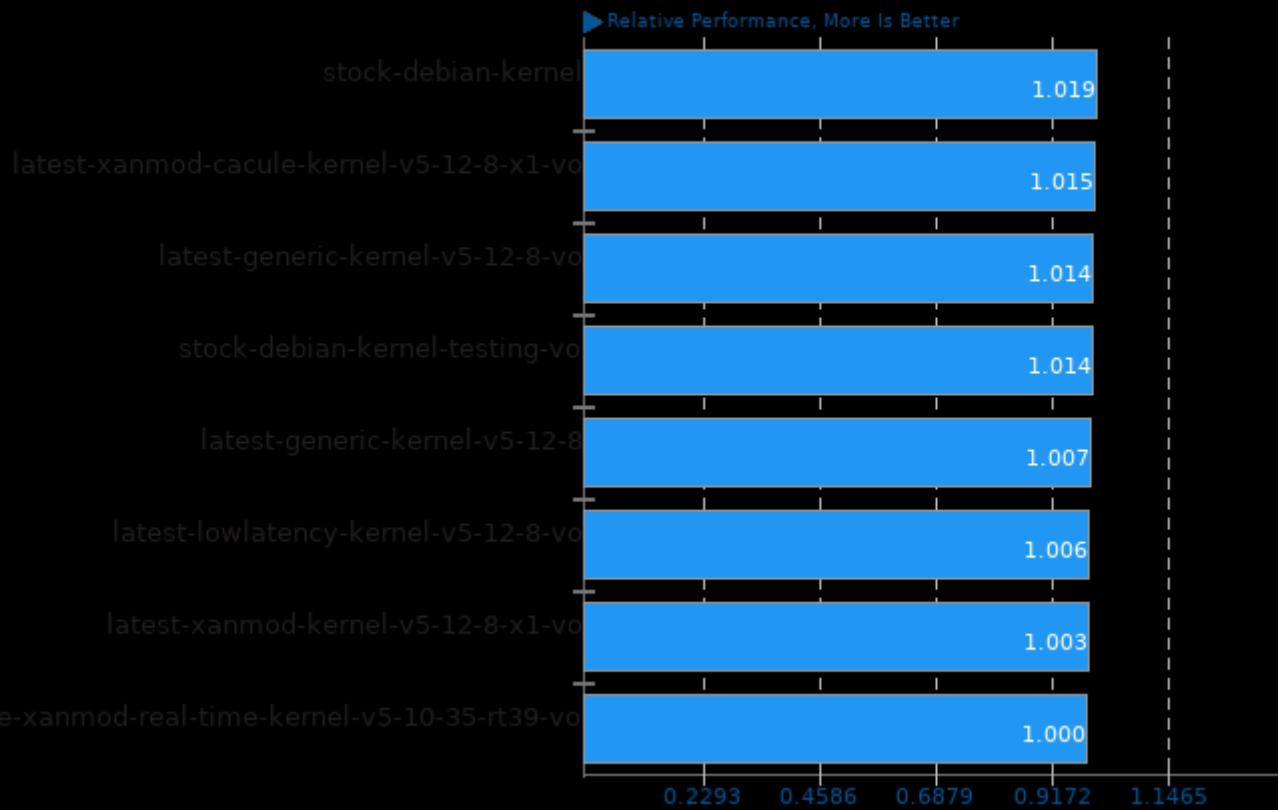
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/fhourstones, pts/cachebench, pts/botan, pts/numpy, pts/redis, pts/pybench, pts/nginx and system/tesseract-ocr

Geometric Mean Of Video Encoding Tests

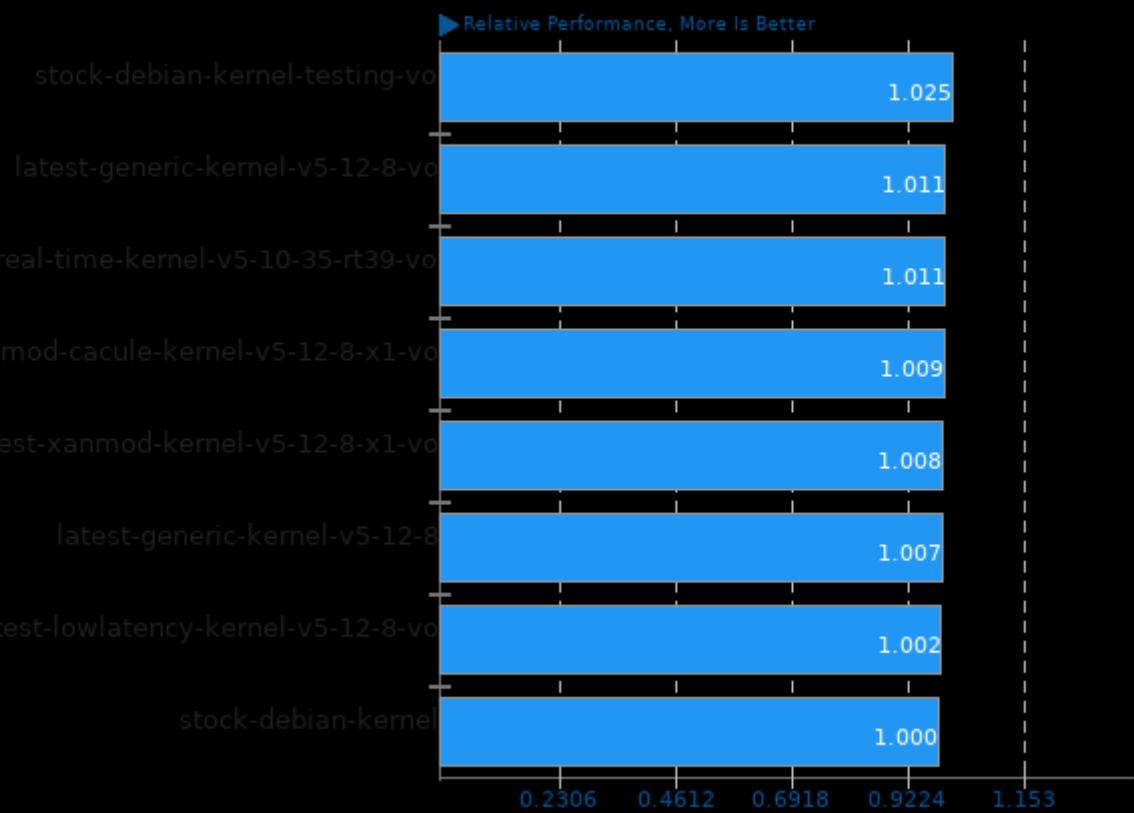
Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/x264, pts/x265 and pts/ffmpeg

Geometric Mean Of Common Workstation Benchmarks Tests

Result Composite - stock-debian-kernel



Geometric mean based upon tests: pts/blender, pts/x265 and pts/sysbench

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 11:31.