



## Clear Linux 36260

2 x Intel Xeon Platinum 8380 testing with a Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS) and ASPEED on Arch Linux via the Phoronix Test Suite.

### Automated Executive Summary

*Clear Linux 36260 had the most wins, coming in first place for 38% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Clear Linux 36260) was 1.442x the speed of the slowest (openSUSE Tumbleweed). CentOS Stream 9 was 0.957x the speed of Clear Linux 36260, AlmaLinux 8.5 was 0.95x the speed of CentOS Stream 9, Arch Linux was 0.824x the speed of AlmaLinux 8.5, Fedora Server 36 was 0.979x the speed of Arch Linux, Ubuntu 20.04.4 LTS was 0.972x the speed of Fedora Server 36, Ubuntu 22.04 LTS was 0.975x the speed of Ubuntu 20.04.4 LTS, openSUSE Tumbleweed was 0.998x the speed of Ubuntu 22.04 LTS.*

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

*Zstd Compression (Compression Level: 3, Long Mode - Compression Speed) at 11.611x*

*Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 8.03x*

*Renaissance (Test: In-Memory Database Shootout) at 5.763x*

*Stress-NG (Test: NUMA) at 5.284x*

*Renaissance (Test: Genetic Algorithm Using Jenetics + Futures) at 5.201x*

*Apache HTTP Server (Concurrent Requests: 200) at 4.88x*

Apache HTTP Server (Concurrent Requests: 500) at 4.858x

DaCapo Benchmark (Java Test: H2) at 4.778x

Stress-NG (Test: Context Switching) at 4.748x

Zstd Compression (Compression Level: 3, Long Mode - Compression Speed) at 4.553x.

## Test Systems:

### Clear Linux 36260

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: Clear Linux OS 36260, Kernel: 5.17.4-1139.native (x86\_64), Desktop: GNOME Shell 42.0, Display Server: X Server 1.21.1.3, Compiler: GCC 12.0.1 20220429 + Clang 14.0.1 + LLVM 14.0.1, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -WI,-enable-new-dtags" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -WI,-sort-common -WI,-enable-new-dtags -mtune=skylake -mrelax-cmpxchg-loop -visibility-inlines-hidden -WI,-enable-new-dtags" FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -WI,-sort-common -WI,-enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D\_FORTIFY\_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D\_REENTRANT -ftree-loop-distribute-patterns -WI,-z -WI,now -WI,-z -WI,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -WI,-sort-common -WI,-enable-new-dtags -mtune=skylake -mrelax-cmpxchg-loop"

THEANO\_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-ftree-vectorize -mavx"

Compiler Notes: --build=x86\_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-host-shared --enable-languages=c,c++,fortran,go,jit --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86\_64-generic-linux --with-arch=x86-64-v3 --with-gcc-major-version-only --with-glibc-version=2.35 --with-gnu-ld --with-isl --with-pic --with-ppl=yes --with-tune=skylake-avx512

Processor Notes: Scaling Governor: intel\_pstate performance (EPP: performance) - CPU Microcode: 0xd000331

Java Notes: OpenJDK Runtime Environment (build 1.8.0-u252-ga-b00)

Python Notes: Python 3.10.4

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbsds: Not affected + tsx\_async\_abort: Not affected

### Ubuntu 22.04 LTS

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: Ubuntu 22.04, Kernel: 5.15.0-27-generic (x86\_64), Desktop: GNOME Shell 42.0, Display Server: X Server 1.21.1.3, Vulkan: 1.2.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --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-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto

--enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgc-nvptx=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr  
--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  
Processor Notes: Scaling Governor: intel\_pstate powersave (EPP: balance\_performance) - CPU Microcode: 0xd0002a0  
Java Notes: OpenJDK Runtime Environment (build 11.0.15+10-Ubuntu-0ubuntu0.22.04.1)  
Python Notes: Python 3.10.4  
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

## Ubuntu 20.04.4 LTS

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: Ubuntu 20.04, Kernel: 5.13.0-40-generic (x86\_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, Vulkan: 1.1.182, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise  
Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-Av3uEd/gcc-9-9.4.0/debian/tmp-nvptx/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-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  
Processor Notes: Scaling Governor: intel\_pstate powersave (EPP: balance\_performance) - CPU Microcode: 0xd0002a0  
Java Notes: OpenJDK Runtime Environment (build 11.0.15+10-Ubuntu-0ubuntu0.20.04.1)  
Python Notes: Python 3.8.10  
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

## Fedora Server 36

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: Fedora Linux 36, Kernel: 5.17.5-300.fc36.x86\_64 (x86\_64), Compiler: GCC 12.0.1 20220413, File-System: xfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise  
Environment Notes: DEBUGINFOD\_URLS=https://debuginfod.fedoraproject.org/  
Compiler Notes: --build=x86\_64-redhat-linux --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-libstdcxx-backtrace --enable-link-serialization=1 --enable-multilib --enable-offload-defaulted --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver  
Processor Notes: Scaling Governor: intel\_pstate powersave (EPP: balance\_performance) - CPU Microcode: 0xd000331  
Java Notes: OpenJDK Runtime Environment 21.9 (build 17.0.2+8)  
Python Notes: Python 3.10.4  
Security Notes: SELinux + itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

## AlmaLinux 8.5

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: AlmaLinux 8.5, Kernel: 4.18.0-348.23.1.el8\_5.x86\_64 (x86\_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server, Compiler: GCC 8.5.0 20210514, File-System: xfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always  
Compiler Notes: --build=x86\_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lo --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver  
Processor Notes: Scaling Governor: intel\_pstate performance (EPP: performance) - CPU Microcode: 0xd000331  
Java Notes: OpenJDK Runtime Environment (build 1.8.0\_332-b09)  
Python Notes: Python 3.6.8  
Security Notes: SELinux + itlb\_multihit: Not affected + I1tf: 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

## CentOS Stream 9

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: CentOS Stream 9, Kernel: 5.14.0-85.el9.x86\_64 (x86\_64), Desktop: GNOME Shell 40.10, Display Server: X Server 1.20.11, Compiler: GCC 11.3.1 20220421, File-System: xfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always  
Environment Notes: DEBUGINFOD\_URLS=https://debuginfod.centos.org/  
Compiler Notes: --build=x86\_64-redhat-linux --disable-libunwind-exceptions --enable\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-host-bind-now --enable-host-pie --enable-initfini-array --enable-languages=c,c++,fortran,lo --enable-link-serialization=1 --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=x86-64 --with-arch\_64=x86-64-v2 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver --without-isl  
Processor Notes: Scaling Governor: intel\_pstate performance (EPP: performance) - CPU Microcode: 0xd000331  
Java Notes: OpenJDK Runtime Environment 18.9 (build 11.0.15-ea+8-LTS)  
Python Notes: Python 3.9.10  
Security Notes: SELinux + itlb\_multihit: Not affected + I1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

## openSUSE Tumbleweed

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: openSUSE Tumbleweed 20220507, Kernel: 5.17.4-1-default (x86\_64), Compiler: GCC 11.2.1 20220420 [revision 691af15031e00227ba6d5935c1d737026cda4129], File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always  
Compiler Notes: --build=x86\_64-suse-linux --disable-libgcc1 --disable-libssp --disable-libstdcxx-pch --disable-libvtv --disable-werror --enable-cet=auto --enable-checking=release --enable-gnu-indirect-function --enable-host-shared --enable-languages=c,c++,objc,fortran,obj-c++,ada,go,d,jit --enable-libphobos --enable-libstdcxx-allocator=new --enable-link-mutex --enable-linux-futex --enable-multilib --enable-offload-targets=nvptx-none,amdgc-n-amdhsa, --enable-plugin --enable-ssp --enable-version-specific-runtime-libs --host=x86\_64-suse-linux --mandir=/usr/share/man --with-arch-32=x86-64 --with-build-config=bootstrap-lto-lean --with-gcc-major-version-only --with-slibdir=/lib64 --with-tune=generic --without-cuda-driver --without-system-libunwind  
Processor Notes: Scaling Governor: intel\_pstate powersave (EPP: balance\_performance) - CPU Microcode: 0xd000331  
Java Notes: OpenJDK Runtime Environment (icedTea 3.22.0) (build 1.8.0\_322-b06 suse-2.1-x86\_64)  
Python Notes: Python 3.8.13  
Security Notes: itlb\_multihit: Not affected + I1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Vulnerable: eIBRS with unprivileged eBPF + srbds: Not affected + tsx\_async\_abort: Not affected

## Arch Linux

Processor: 2 x Intel Xeon Platinum 8380 @ 3.40GHz (80 Cores / 160 Threads), Motherboard: Intel M50CYP2SB2U (SE5C6200.86B.0022.D08.2103221623 BIOS), Chipset: Intel Device 0998, Memory: 512GB, Disk: 800GB INTEL SSDPF21Q800GB, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel X710 for 10GBASE-T + 2 x Intel E810-C for QSFP

OS: Arch Linux, Kernel: 5.17.5-arch1-1 (x86\_64), Compiler: GCC 11.2.0, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --disable-libssp --disable-libstdc++-pch --disable-werror --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet=auto --enable-checking=release --enable-clocale=glibc --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-languages=c,c++,ada,fortran,go,lto,obj-c++,d --enable-link-serialization=1 --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-build-config=bootstrap-lto --with-linker-hash-style=glibc

Processor Notes: Scaling Governor: intel\_cpufreq schedutil - CPU Microcode: 0xd000331

Java Notes: OpenJDK Runtime Environment (build 11.0.15+10)

Python Notes: Python 3.10.4

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbsds: Not affected + tsx\_async\_abort: Not affected

	Clear Linux 36260	Ubuntu 22.04 LTS	Ubuntu 20.04.4 LTS	Fedora Server 36	AlmaLinux 8.5	CentOS Stream 9	openSUSE Tumbleweed	Arch Linux
<b>Algebraic Multi-Grid</b>	213924866	205624066	205872433	<b>205013433</b>	215588033	215789133	<b>215912666</b>	207848300
<b>Benchmark (Figure Of Merit)</b>	7	7	3	<b>3</b>	3	3	<b>7</b>	0
<b>Normalized</b>	99.08%	95.23%	95.35%	94.95%	99.85%	99.94%	100%	96.26%
<b>Standard Deviation</b>	0.2%	0%	0.2%	0.5%	0%	0.1%	0.1%	0.2%
<b>Apache HTTP Server - 200 (Reqs/sec)</b>	142295	<b>40387</b>		52163	128388	127990	<b>197076</b>	130805
<b>Normalized</b>	72.2%	20.49%		26.47%	65.15%	64.94%	100%	66.37%
<b>Standard Deviation</b>	0.6%	0.8%		4.1%	0.2%	0.5%	1.1%	0.8%
<b>Apache HTTP Server - 500 (Reqs/sec)</b>	161054	<b>42512</b>		104313	143169	136257	<b>206531</b>	116518
<b>Normalized</b>	77.98%	20.58%		50.51%	69.32%	65.97%	100%	56.42%
<b>Standard Deviation</b>	3.1%	8%		22.5%	0.8%	0.7%	2.2%	0.4%
<b>Apache HTTP Server - 1000 (Reqs/sec)</b>	119226	<b>46917</b>		114687	114771	117895	<b>213476</b>	122320
<b>Normalized</b>	55.85%	21.98%		53.72%	53.76%	55.23%	100%	57.3%
<b>Standard Deviation</b>	0%	9.8%		14.5%	0.4%	1.6%	1.2%	1.2%
<b>ASTC Encoder - 4.4530 Medium (sec)</b>	5.8603	5.8603	<b>5.9653</b>	5.3372	<b>4.4191</b>	4.5934	5.5042	5.0963
<b>Normalized</b>	99.24%	75.41%	74.08%	82.8%	100%	96.21%	80.29%	86.71%
<b>Standard Deviation</b>	0.1%	7.2%	0.8%	8.8%	0%	0.4%	3.7%	7.3%
<b>ASTC Encoder - 6.0837 Thorough (sec)</b>	7.4776	<b>7.4776</b>	7.0949	7.1950	<b>6.0474</b>	6.2710	7.0018	6.5131
<b>Normalized</b>	99.4%	80.87%	85.24%	84.05%	100%	96.43%	86.37%	92.85%
<b>Standard Deviation</b>	0%	2.4%	5.8%	2%	0.5%	0.2%	2.4%	1.4%
<b>ASTC Encoder - 8.2286 Exhaustive (sec)</b>	<b>8.2286</b>	<b>9.0528</b>	8.9093	8.7701	8.6117	8.7208	8.9358	8.8048
<b>Normalized</b>	100%	90.9%	92.36%	93.83%	95.55%	94.36%	92.09%	93.46%

Standard Deviation	0.1%	0.4%	0.2%	0.5%	0.3%	0.1%	0.2%	0.3%
<b>Blender - BMW27 - CPU-Only (sec)</b>	23.59	<b>24.89</b>	24.41	24.78	<b>23.30</b>	23.66	24.35	24.74
Normalized	98.77%	93.61%	95.45%	94.03%	100%	98.48%	95.69%	94.18%
Standard Deviation	0.5%	0.2%	0.6%	0.6%	0.5%	0.3%	0.3%	0.3%
<b>Blender - Classroom - CPU-Only (sec)</b>	61.96	63.96	63.32	64.04	<b>61.64</b>	62.18	62.52	<b>64.06</b>
Normalized	99.48%	96.37%	97.35%	96.25%	100%	99.13%	98.59%	96.22%
Standard Deviation	0.2%	0.1%	0.3%	0.2%	0.4%	0.2%	0.2%	0.7%
<b>Blender - Fishy Cat - CPU-Only (sec)</b>	<b>32.02</b>	33.81	<b>34.84</b>	33.87	33.17	32.21	32.85	33.87
Normalized	100%	94.71%	91.91%	94.54%	96.53%	99.41%	97.47%	94.54%
Standard Deviation	0.6%	0.6%	1.9%	0.7%	0.3%	0.7%	1%	1.1%
<b>Blender - Barbershop - CPU-Only (sec)</b>	248.34	259.21	254.38	<b>260.62</b>	<b>245.74</b>	249.03	253.04	259.48
Normalized	98.95%	94.8%	96.6%	94.29%	100%	98.68%	97.12%	94.7%
Standard Deviation	0.1%	0.5%	0.5%	0.1%	0.2%	0.5%	0.2%	0.4%
<b>Blender - Pabellon Barcelona - CPU-Only (sec)</b>	77.63	80.83	80.20	<b>81.07</b>	<b>77.16</b>	77.77	78.46	80.62
Normalized	99.39%	95.46%	96.21%	95.18%	100%	99.22%	98.34%	95.71%
Standard Deviation	0.1%	0.2%	0.7%	0.2%	0.2%	0.1%	0.3%	0%
<b>DaCapo Benchmark - H2 (msec)</b>	4151	10642	10670	10665	3705	<b>2734</b>	<b>13062</b>	10477
Normalized	65.86%	25.69%	25.62%	25.64%	73.79%	100%	20.93%	26.1%
Standard Deviation	1.6%	1.8%	2%	2.4%	4.1%	0.4%	2.3%	1.8%
<b>DaCapo Benchmark - Jython (msec)</b>	<b>3537</b>	<b>5594</b>	4882	5350	3650	3832	5564	4920
Normalized	100%	63.23%	72.45%	66.11%	96.9%	92.3%	63.57%	71.89%
Standard Deviation	0.4%	12.4%	13.8%	11.4%	0.7%	1.4%	13.7%	17.6%
<b>Embree - Pathtracer - Crown (FPS)</b>	<b>64.8288</b>	64.1254	64.2996	<b>61.9441</b>	63.5296			
Normalized	100%	98.91%	99.18%	95.55%	98%			
Standard Deviation	0.1%	1%	0.9%	1.7%	1%			
<b>Embree - Pathtracer ISPC - Crown (FPS)</b>	<b>74.9695</b>	66.5276	67.5723	<b>65.7758</b>	72.9157			
Normalized	100%	88.74%	90.13%	87.74%	97.26%			
Standard Deviation	0.4%	0.7%	1.3%	0.4%	1.1%			
<b>Embree - Pathtracer Asian Dragon (FPS)</b>	84.0912	83.2807	<b>81.3470</b>	82.5283	<b>84.8031</b>			
Normalized	99.16%	98.2%	95.92%	97.32%	100%			
Standard Deviation	0.2%	0.6%	2.8%	1.1%	0.4%			
<b>Embree - Pathtracer ISPC - Asian Dragon (FPS)</b>	<b>108.5649</b>	107.1081	105.7740	<b>105.4751</b>	108.4509			
Normalized	100%	98.66%	97.43%	97.15%	99.89%			
Standard Deviation	1.1%	0.8%	1.6%	1.6%	1%			
<b>GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)</b>	<b>9.534</b>	9.005	8.993	8.905	<b>8.642</b>	8.801	9.052	8.959
Normalized	100%	94.45%	94.33%	93.4%	90.64%	92.31%	94.94%	93.97%
Standard Deviation	0.7%	1.6%	0.2%	2.2%	0.4%	1.5%	0.5%	0.4%

LAMMPS Molecular Dynamics Simulator - 20k Atoms (ns/day)	35.396	34.955	35.544	35.430	35.553	34.796	34.102	35.502
Normalized	99.56%	98.32%	99.97%	99.65%	100%	97.87%	95.92%	99.86%
Standard Deviation	0.3%	0.1%	0.2%	0.4%	0.1%	0.2%	0.3%	0.1%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (ns/day)	32.137	23.267	24.193	27.387	32.797	32.596	24.607	28.857
Normalized	97.99%	70.94%	73.77%	83.5%	100%	99.39%	75.03%	87.99%
Standard Deviation	5.8%	16%	5.5%	6.1%	10%	5.5%	7.1%	5.6%
libavif avifenc - 0 (sec)	83.014	87.149	87.632	88.075	81.997	83.877	85.511	88.228
Normalized	98.77%	94.09%	93.57%	93.1%	100%	97.76%	95.89%	92.94%
Standard Deviation	2.4%	1.9%	1.2%	2.2%	0.7%	1.8%	1.3%	1%
libavif avifenc - 2 (sec)	47.214	50.471	50.285	49.882	45.821	46.184	47.816	49.219
Normalized	97.05%	90.79%	91.12%	91.86%	100%	99.21%	95.83%	93.1%
Standard Deviation	1%	1.4%	0.8%	0.5%	1.4%	0.9%	2.3%	2.5%
libavif avifenc - 6 (sec)	4.472	6.587	6.413	6.521	4.697	4.662	5.878	6.050
Normalized	100%	67.89%	69.73%	68.58%	95.21%	95.92%	76.08%	73.92%
Standard Deviation	2.2%	0.5%	4%	4.3%	2.1%	1.6%	4.2%	1.6%
libavif avifenc - 6, Lossless (sec)	7.180	10.767	10.537	10.728	8.201	7.574	9.789	9.801
Normalized	100%	66.69%	68.14%	66.93%	87.55%	94.8%	73.35%	73.26%
Standard Deviation	0.2%	6.4%	4.7%	4.6%	2%	0.8%	3.7%	1.6%
libavif avifenc - 10, Lossless (sec)	4.656	7.974	8.354	8.308	5.654	4.967	7.097	7.560
Normalized	100%	58.39%	55.73%	56.04%	82.35%	93.74%	65.61%	61.59%
Standard Deviation	0.9%	1.9%	2.5%	2.4%	0.3%	0.6%	1.8%	2.4%
Liquid-DSP - 128 - 256 - 57 (samples/s)	394270000	317840000	327066666	323870000	332610000	321570000	141016666	320913333
Normalized	100%	80.61%	82.95%	82.14%	84.36%	81.56%	35.77%	81.39%
Standard Deviation	0.2%	0.4%	0.4%	0.8%	0.1%	0.3%	0.5%	0.2%
Liquid-DSP - 160 - 256 - 57 (samples/s)	377350000	296923333	304970000	304653333	313843333	304650000	145840000	305673333
Normalized	100%	78.69%	80.82%	80.73%	83.17%	80.73%	38.65%	81.01%
Standard Deviation	0.1%	0.6%	0.7%	0.7%	0%	0.1%	0.9%	0%
LuxCoreRender - DLSC - CPU (M samples/sec)	9.19	9.10	9.12	9.01		8.95	9.05	9.46
Normalized	97.15%	96.19%	96.41%	95.24%		94.61%	95.67%	100%
Standard Deviation	0.3%	3.7%	2.8%	1.7%		2.9%	3.7%	2.1%
LuxCoreRender - Danish Mood - CPU (M samples/sec)	6.48	4.80	4.69	4.82		6.46	4.85	5.99
Normalized	100%	74.07%	72.38%	74.38%		99.69%	74.85%	92.44%
Standard Deviation	4.1%	5.6%	5.2%	5.6%		4.1%	5.4%	5.5%
LuxCoreRender - Orange Juice - CPU (M samples/sec)	14.15	14.01	13.87	14.07		14.59	14.33	13.94
Normalized	96.98%	96.02%	95.07%	96.44%		100%	98.22%	95.54%
Standard Deviation	0.6%	1.1%	1.2%	2.3%		2.5%	0.2%	2.4%

<b>LuxCoreRender -</b>	6.54	4.98	<b>4.52</b>	4.68		<b>6.67</b>	4.75	6.14
<b>LuxCore Benchmark -</b>								
<b>CPU (M samples/sec)</b>								
<b>Normalized</b>	98.05%	74.66%	67.77%	70.16%		100%	71.21%	92.05%
<b>Standard Deviation</b>	5.2%	2.2%	6.7%	7.8%		4.7%	5.2%	5.7%
<b>nginx - 100 (Reqs/sec)</b>	<b>221581</b>	80571		82252	216280	207090	<b>79426</b>	203560
<b>Normalized</b>	100%	36.36%		37.12%	97.61%	93.46%	35.85%	91.87%
<b>Standard Deviation</b>	0.1%	0.6%		0.2%	0.2%	0.4%	0.9%	0.8%
<b>nginx - 200 (Reqs/sec)</b>	<b>209351</b>	191936		<b>184716</b>	190417	194926	197969	195642
<b>Normalized</b>	100%	91.68%		88.23%	90.96%	93.11%	94.56%	93.45%
<b>Standard Deviation</b>	1.6%	3.6%		1.7%	1.9%	0.1%	1.7%	1.2%
<b>nginx - 500 (Reqs/sec)</b>	<b>222157</b>	201485		<b>197007</b>	200635	203857	208850	207517
<b>Normalized</b>	100%	90.69%		88.68%	90.31%	91.76%	94.01%	93.41%
<b>Standard Deviation</b>	2%	2.4%		0.7%	1.1%	0.8%	2.4%	0.5%
<b>nginx - 1000 (Reqs/sec)</b>	<b>226219</b>	208941		<b>200512</b>	205275	206787	214270	212054
<b>Normalized</b>	100%	92.36%		88.64%	90.74%	91.41%	94.72%	93.74%
<b>Standard Deviation</b>	1%	1.9%		1.2%	0.5%	0.4%	0.7%	0.8%
<b>Numpy Benchmark</b>	380.72	375.17	374.70	390.38	<b>339.03</b>	390.81	392.96	<b>411.66</b>
<b>(Score)</b>								
<b>Normalized</b>	92.48%	91.14%	91.02%	94.83%	82.36%	94.94%	95.46%	100%
<b>Standard Deviation</b>	0.2%	1.4%	0.2%	0.1%	1.4%	0.3%	2.1%	0.5%
<b>oneDNN - R.N.N.T - f32</b>	733.981	749.082	615.245	763.807	<b>605.709</b>	715.289	678.302	<b>771.997</b>
<b>- CPU (ms)</b>								
<b>Normalized</b>	82.52%	80.86%	98.45%	79.3%	100%	84.68%	89.3%	78.46%
<b>Standard Deviation</b>	5.6%	7.1%	0.3%	8.4%	1.2%	2.2%	2.5%	1.6%
<b>oneDNN - R.N.N.I - f32</b>	504.478	497.835	377.722	<b>512.912</b>	<b>369.383</b>	429.064	430.983	493.925
<b>CPU (ms)</b>								
<b>Normalized</b>	73.22%	74.2%	97.79%	72.02%	100%	86.09%	85.71%	74.79%
<b>Standard Deviation</b>	1.8%	7.1%	0.3%	9%	1.6%	2.5%	6.2%	4.1%
<b>oneDNN - R.N.N.T -</b>	731.978	727.508	615.177	<b>775.400</b>	<b>606.959</b>	695.815	688.678	740.178
<b>u8s8f32 - CPU (ms)</b>								
<b>Normalized</b>	82.92%	83.43%	98.66%	78.28%	100%	87.23%	88.13%	82%
<b>Standard Deviation</b>	4.5%	6.3%	0.4%	6.6%	0.2%	1.9%	1.2%	4.4%
<b>oneDNN - R.N.N.I -</b>	482.151	486.486	377.054	<b>516.527</b>	<b>369.215</b>	456.857	431.517	494.774
<b>u8s8f32 - CPU (ms)</b>								
<b>Normalized</b>	76.58%	75.89%	97.92%	71.48%	100%	80.82%	85.56%	74.62%
<b>Standard Deviation</b>	5%	8.4%	0.5%	5.2%	0.4%	4.9%	7.5%	3.4%
<b>oneDNN - R.N.N.T -</b>	730.888	<b>770.074</b>	619.970	739.443	<b>606.602</b>	699.283	705.397	754.779
<b>bf16bf16bf16 - CPU</b>								
<b>Normalized</b>	83%	78.77%	97.84%	82.03%	100%	86.75%	85.99%	80.37%
<b>Standard Deviation</b>	3%	7.6%	2.4%	8.3%	0.8%	2.4%	0.7%	4.7%
<b>oneDNN - R.N.N.I -</b>	483.076	496.157	375.104	<b>497.005</b>	<b>370.968</b>	458.113	424.347	492.389
<b>bf16bf16bf16 - CPU</b>								
<b>Normalized</b>	76.79%	74.77%	98.9%	74.64%	100%	80.98%	87.42%	75.34%
<b>Standard Deviation</b>	5.8%	7%	0.1%	7.7%	0.9%	0.7%	6.7%	5.7%
<b>ONNX Runtime - GPT-2</b>	10227	<b>13003</b>		10978	9423	<b>9272</b>	9395	12563
<b>- CPU - Standard</b>								
<b>(Inferences/min)</b>								
<b>Normalized</b>	78.65%	100%		84.43%	72.47%	71.31%	72.25%	96.62%
<b>Standard Deviation</b>	6.3%	0.2%		6.2%	1.1%	1.1%	2%	6.4%

<b>ONNX Runtime - yolov4</b>	684	<b>693</b>		666	689	650	<b>622</b>	674
- CPU - Standard								
(Inferences/min)								
Normalized	98.7%	100%		96.1%	99.42%	93.8%	89.75%	97.26%
Standard Deviation	0.2%	0.2%		4.5%	0.4%	4.8%	2.3%	3.4%
<b>ONNX Runtime -</b>	<b>2224</b>	1897		2174	1891	1878	<b>1820</b>	1909
<b>ArcFace ResNet-100 -</b>								
<b>CPU - Standard</b>								
<b>(Inferences/min)</b>								
Normalized	100%	85.3%		97.75%	85.03%	84.44%	81.83%	85.84%
Standard Deviation	0.9%	0.5%		3.7%	2.8%	1%	3.1%	1%
<b>ONNX Runtime -</b>	<b>8130</b>	11847		7100	10951	<b>6896</b>	<b>12429</b>	12321
<b>super-resolution-10 -</b>								
<b>CPU - Standard</b>								
<b>(Inferences/min)</b>								
Normalized	65.41%	95.32%		57.12%	88.11%	55.48%	100%	99.13%
Standard Deviation	27.9%	0.8%		0.3%	1.3%	0.4%	0.4%	1%
<b>OSPray -</b>	<b>341.385</b>	239.155	262.954	280.758	340.922	<b>343.423</b>	277.377	<b>234.328</b>
<b>particle_volume/pathtra</b>								
<b>cer/real_time</b>								
Normalized	99.41%	69.64%	76.57%	81.75%	99.27%	100%	80.77%	68.23%
Standard Deviation	0.5%	15.1%	15%	8%	1.1%	1.7%	7.9%	2.4%
<b>OSPray -</b>	<b>22.0819</b>	20.5716	20.6689	<b>20.5269</b>	21.9776	<b>22.1243</b>	21.9072	20.7606
<b>gravity_spheres_volum</b>								
<b>e/dim_512/ao/real_time</b>								
<b>(Items/sec)</b>								
Normalized	99.81%	92.98%	93.42%	92.78%	99.34%	100%	99.02%	93.84%
Standard Deviation	0.7%	0.4%	0.7%	0.9%	0.8%	1.1%	0.3%	0.9%
<b>Pennant - sedovbig</b>	<b>7.988127</b>	15.45863	14.76050	<b>15.99931</b>	14.96581	14.62528	15.70179	15.26595
<b>(Hydro Cycle Time -</b>								
<b>Normalized</b>	100%	51.67%	54.12%	49.93%	53.38%	54.62%	50.87%	52.33%
<b>Standard Deviation</b>	2.5%	2.2%	0.8%	1.1%	0.4%	0.1%	0.5%	0.2%
<b>PHPBench - P.B.S</b>	<b>1683588</b>	797186	708575	804810	<b>642030</b>	769031	655272	646622
<b>(Score)</b>								
Normalized	100%	47.35%	42.09%	47.8%	38.13%	45.68%	38.92%	38.41%
Standard Deviation	0.8%	1%	0.5%	0.3%	0.2%	0.1%	0%	0.4%
<b>PyBench - T.F.A.T.T</b>	1045	1020	<b>981</b>	1158	1193	1155	<b>1206</b>	1037
<b>(Milliseconds)</b>								
Normalized	93.88%	96.18%	100%	84.72%	82.23%	84.94%	81.34%	94.6%
Standard Deviation	0.2%	0.3%	0.3%	0.4%	0.1%	0.1%	0.2%	0.1%
<b>PyPerformance - go</b>	225	260	310	275	295	287	<b>328</b>	<b>219</b>
<b>(Milliseconds)</b>								
Normalized	97.33%	84.23%	70.65%	79.64%	74.24%	76.31%	66.77%	100%
Standard Deviation	0%	5.7%	1%	0.6%	0.6%	0.6%	1.5%	0%
<b>PyPerformance - 2to3</b>	<b>310</b>	505	507	523	351	337	<b>558</b>	<b>310</b>
<b>(Milliseconds)</b>								
Normalized	100%	61.39%	61.14%	59.27%	88.32%	91.99%	55.56%	100%
Standard Deviation	0%	0.1%	0.1%	0.1%	0.2%	0%	0.2%	0%
<b>PyPerformance - chaos</b>	104	143	129	128	127	124	<b>208</b>	<b>94.1</b>
<b>(Milliseconds)</b>								
Normalized	90.48%	65.8%	72.95%	73.52%	74.09%	75.89%	45.24%	100%
Standard Deviation	0%	0.4%	8.3%	2.3%	0%	0%	0.3%	0.3%

<b>PyPerformance - float</b>	103	147	145	133	122	125	<b>205</b>	<b>95.6</b>
<b>(Milliseconds)</b>								
<b>Normalized</b>	92.82%	65.03%	65.93%	71.88%	78.36%	76.48%	46.63%	100%
<b>Standard Deviation</b>	0%	0.4%	9.5%	1.6%	0%	0%	0.3%	0.1%
<b>PyPerformance - nbody</b>	129	182	136	162	124	136	<b>219</b>	<b>123</b>
<b>(Milliseconds)</b>								
<b>Normalized</b>	95.35%	67.58%	90.44%	75.93%	99.19%	90.44%	56.16%	100%
<b>Standard Deviation</b>	0.4%	0.3%	6.2%	2.3%	0.4%	0.4%	0%	0.5%
<b>PyPerformance - pathlib</b>	<b>16.5</b>	27.3	27.3	29.7	20.2	18.5	<b>31.1</b>	17.2
<b>(Milliseconds)</b>								
<b>Normalized</b>	100%	60.44%	60.44%	55.56%	81.68%	89.19%	53.05%	95.93%
<b>Standard Deviation</b>	0%	0.2%	5.1%	0.2%	0%	0.3%	0.2%	0%
<b>PyPerformance - json_loads</b>	<b>23.7</b>	33.7	29.8	26.1	26.4	24.1	<b>37.5</b>	25.3
<b>(Milliseconds)</b>								
<b>Normalized</b>	100%	70.33%	79.53%	90.8%	89.77%	98.34%	63.2%	93.68%
<b>Standard Deviation</b>	0.4%	2.4%	7.8%	2.2%	0.2%	0%	0.2%	0.5%
<b>PyPerformance - crypto_pyaes</b>	110	159	129	137	113	121	<b>194</b>	<b>104</b>
<b>(Milliseconds)</b>								
<b>Normalized</b>	94.55%	65.41%	80.62%	75.91%	92.04%	85.95%	53.61%	100%
<b>Standard Deviation</b>	0%	0.4%	7.8%	2.9%	0.5%	0.5%	0%	0.6%
<b>PyPerformance - regex_compile</b>	<b>166</b>	224	197	207	208	189	<b>295</b>	167
<b>(Milliseconds)</b>								
<b>Normalized</b>	100%	74.11%	84.26%	80.19%	79.81%	87.83%	56.27%	99.4%
<b>Standard Deviation</b>	0%	7.5%	1.6%	1.1%	0%	0%	0.2%	0.3%
<b>PyPerformance - python_startup</b>	9.53	17.4	17.9	17.8	10.4	<b>8.65</b>	<b>26.5</b>	12.1
<b>(Milliseconds)</b>								
<b>Normalized</b>	90.77%	49.71%	48.32%	48.6%	83.17%	100%	32.64%	71.49%
<b>Standard Deviation</b>	0%	0.7%	0.3%	0.6%	0%	0.1%	0.2%	0%
<b>PyPerformance - django_template</b>	45.1	64.2	54.8	51.4	78.3	53.1	<b>85.7</b>	<b>44.4</b>
<b>(Milliseconds)</b>								
<b>Normalized</b>	98.45%	69.16%	81.02%	86.38%	56.7%	83.62%	51.81%	100%
<b>Standard Deviation</b>	0.1%	0.3%	3.5%	0.7%	0.1%	0.1%	0.2%	0%
<b>PyPerformance - pickle_pure_python</b>	426	588	530	500	535	479	<b>790</b>	<b>407</b>
<b>(Milliseconds)</b>								
<b>Normalized</b>	95.54%	69.22%	76.79%	81.4%	76.07%	84.97%	51.52%	100%
<b>Standard Deviation</b>	0.1%	7%	6.7%	2.5%	0.4%	0.4%	0.1%	0%
<b>QuantLib (MFLOPS)</b>	2571	2493	2387	2604	<b>2076</b>	<b>2612</b>		2543
<b>(Milliseconds)</b>								
<b>Normalized</b>	98.41%	95.42%	91.39%	99.69%	79.46%	100%		97.34%
<b>Standard Deviation</b>	0.7%	0.7%	0.8%	0.1%	0.3%	0.2%		0.2%
<b>Renaissance - Scala Dotty (ms)</b>	727.7	1260	1143	<b>1276</b>	<b>703.5</b>	795.1	1141	891.3
<b>(Milliseconds)</b>								
<b>Normalized</b>	96.67%	55.85%	61.53%	55.14%	100%	88.48%	61.67%	78.93%
<b>Standard Deviation</b>	5.6%	13.7%	21.1%	11.5%	1.5%	5.9%	12.9%	1.5%
<b>Renaissance - Rand Forest (ms)</b>	<b>665.0</b>	1540	1518		686.6	705.5	1503	<b>1570</b>
<b>(Milliseconds)</b>								
<b>Normalized</b>	100%	43.18%	43.8%		96.85%	94.26%	44.24%	42.36%
<b>Standard Deviation</b>	0.5%	2.2%	2.1%		2.4%	0.7%	1.9%	1.3%

<b>Renaissance - ALS</b>	<b>6365</b>	18081	18027		6619	6756	18753	<b>19593</b>
<b>Movie Lens (ms)</b>								
Normalized	100%	35.2%	35.31%		96.16%	94.21%	33.94%	32.49%
Standard Deviation	1.1%	0.7%	1.5%		1.5%	1.1%	1.7%	0.9%
<b>Renaissance - Apache</b>	<b>1285</b>	3097	3113		1328	1559	2978	<b>3369</b>
<b>Spark ALS (ms)</b>								
Normalized	100%	41.48%	41.27%		96.72%	82.38%	43.13%	38.12%
Standard Deviation	0.8%	1.6%	1.4%		0.2%	0.1%	1.4%	0.6%
<b>Renaissance - Apache</b>	<b>523.1</b>	1007	978.8		530.2	541.6	1131	<b>1422</b>
<b>Spark Bayes (ms)</b>								
Normalized	100%	51.93%	53.44%		98.66%	96.58%	46.26%	36.78%
Standard Deviation	5.2%	1.4%	2.6%		1.3%	4.3%	8%	2.2%
<b>Renaissance - Savina</b>	13586	<b>21731</b>	21355	16485	14216	<b>13458</b>	21280	21672
<b>Reactors.IO (ms)</b>								
Normalized	99.06%	61.93%	63.02%	81.64%	94.67%	100%	63.25%	62.1%
Standard Deviation	2.1%	1.3%	2.4%	6.9%	2.3%	0.5%	13.2%	1.2%
<b>Renaissance - A.S.P</b>	<b>2999</b>	<b>5438</b>	4895		3019	3423	3586	4352
<b>(ms)</b>								
Normalized	100%	55.15%	61.27%		99.34%	87.63%	83.64%	68.92%
Standard Deviation	2.9%	5.6%	0.8%		2.2%	1%	2.1%	4.2%
<b>Renaissance - F.H.R</b>	<b>3487</b>	7643	7522	4569		4398	5779	<b>7828</b>
<b>(ms)</b>								
Normalized	100%	45.63%	46.36%	76.33%		79.28%	60.34%	44.55%
Standard Deviation	1.3%	2.4%	2%	9.8%		2.4%	12%	2.2%
<b>Renaissance - I.M.D.S</b>	<b>3688</b>	19323	18850		3824	3975	<b>21253</b>	18550
<b>(ms)</b>								
Normalized	100%	19.08%	19.56%		96.44%	92.77%	17.35%	19.88%
Standard Deviation	4%	1.6%	2.2%		0.6%	2.2%	1.6%	2%
<b>Renaissance - A.U.C.T</b>	<b>14522</b>	35859	34196	35264	14642	15747	34924	<b>36868</b>
<b>(ms)</b>								
Normalized	100%	40.5%	42.47%	41.18%	99.18%	92.22%	41.58%	39.39%
Standard Deviation	0.7%	1.6%	2.3%	0.2%	2.3%	1.3%	0.9%	1.8%
<b>Renaissance -</b>	1714	7004	6840	<b>7289</b>	1721	<b>1402</b>	6896	7249
<b>G.A.U.J.F (ms)</b>								
Normalized	81.77%	20.01%	20.49%	19.23%	81.43%	100%	20.32%	19.33%
Standard Deviation	3.2%	1.1%	0.9%	1.9%	1.1%	2.4%	1.1%	0.7%
<b>Stockfish - Total Time</b>	<b>188273155</b>	182991428	187135241	181841138	187578776	182441249	184534600	<b>175077904</b>
<b>(Nodes/s)</b>								
Normalized	100%	97.19%	99.4%	96.58%	99.63%	96.9%	98.01%	92.99%
Standard Deviation	2%	3.2%	2.5%	2.3%	2.4%	1.4%	1.7%	1.9%
<b>Stress-NG - MMAP</b>		3990	3865	3796	<b>3481</b>	4670	4665	<b>4793</b>
<b>(Bogo Ops/s)</b>								
Normalized		83.25%	80.65%	79.21%	72.63%	97.43%	97.32%	100%
Standard Deviation		1.7%	1.2%	1.3%	0.4%	0.1%	1.3%	0.2%
<b>Stress-NG - NUMA</b>		41.67	<b>44.91</b>	40.62	9.87	10.40	<b>8.50</b>	40.29
<b>(Bogo Ops/s)</b>								
Normalized		92.79%	100%	90.45%	21.98%	23.16%	18.93%	89.71%
Standard Deviation		1.3%	2.1%	2.1%	3.8%	0.1%	11.2%	1.6%
<b>Stress-NG - MEMFD</b>		3924	3697	3443	<b>2749</b>	4211	<b>4539</b>	4028
<b>(Bogo Ops/s)</b>								
Normalized		86.45%	81.46%	75.86%	60.57%	92.78%	100%	88.75%
Standard Deviation		1.5%	1.5%	1.5%	0.1%	0.1%	1.6%	0.4%

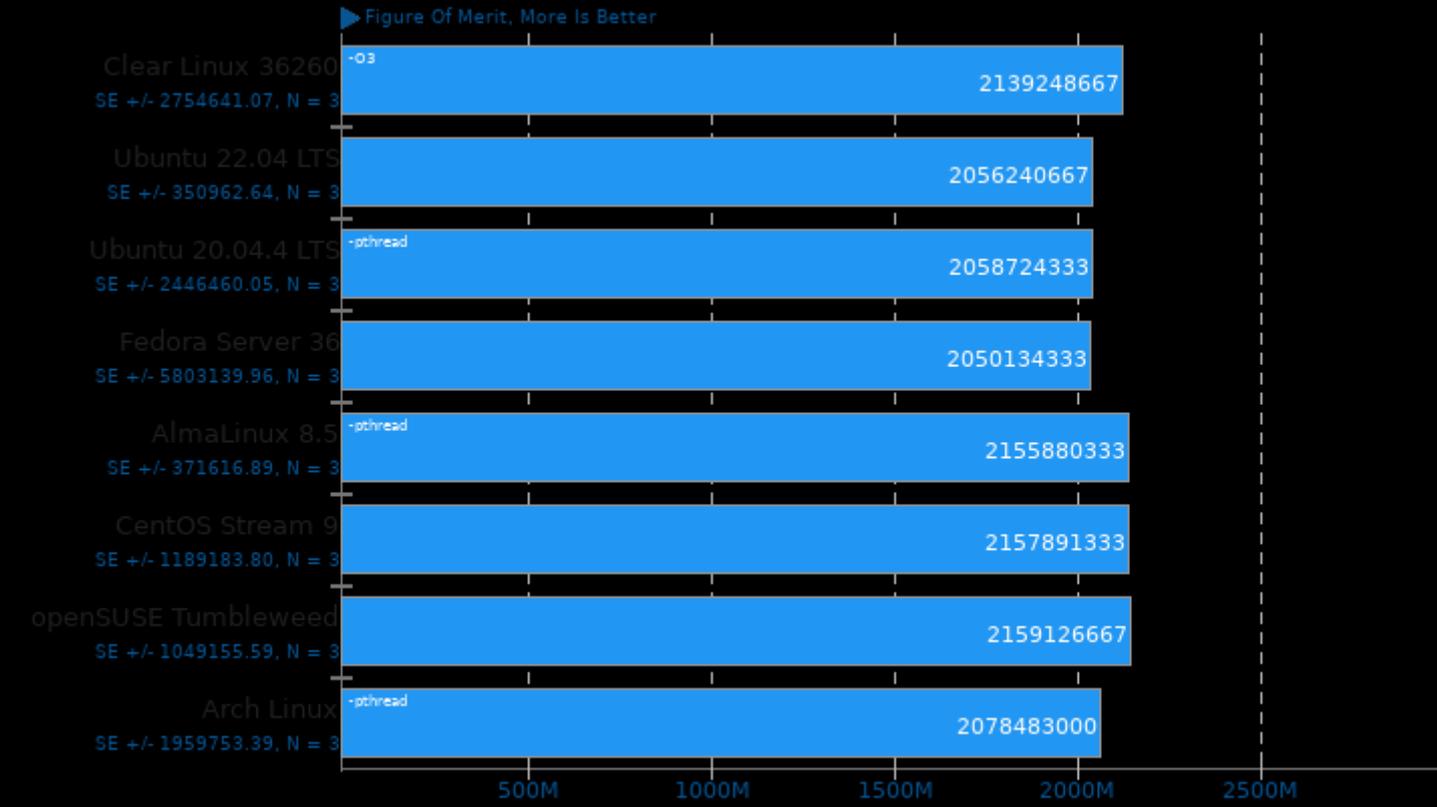
<b>Stress-NG - Crypto</b>	86093	81867	<b>88806</b>	<b>73716</b>	82644	85026	83677
(Bogo Ops/s)							
Normalized	96.94%	92.19%	100%	83.01%	93.06%	95.74%	94.22%
Standard Deviation	0.4%	0.7%	1.7%	0.1%	1.6%	1.3%	0.2%
<b>Stress-NG - Malloc</b>	296692558	289035194	309894608	293929417	308033821	<b>311705066</b>	<b>281820121</b>
(Bogo Ops/s)							
Normalized	95.18%	92.73%	99.42%	94.3%	98.82%	100%	90.41%
Standard Deviation	0.5%	0.7%	0.2%	0.4%	0.3%	0.6%	1%
<b>Stress-NG - Forking</b>	65524	62898	64707	61691	63328	<b>86556</b>	<b>59282</b>
(Bogo Ops/s)							
Normalized	75.7%	72.67%	74.76%	71.27%	73.16%	100%	68.49%
Standard Deviation	0.6%	0.4%	0.6%	0.6%	0.4%	2.1%	0.9%
<b>Stress-NG - IO_uring</b>	7688144		<b>8045113</b>			7561316	<b>5596387</b>
(Bogo Ops/s)							
Normalized	95.56%		100%			93.99%	69.56%
Standard Deviation	1.8%		1.7%			43.3%	33.1%
<b>Stress-NG - SENDFILE</b>	1187151	1159657	1308045	<b>1033952</b>	1228334	1308527	<b>1324156</b>
(Bogo Ops/s)							
Normalized	89.65%	87.58%	98.78%	78.08%	92.76%	98.82%	100%
Standard Deviation	0.5%	0.3%	0.7%	0.2%	0.2%	0.6%	0.4%
<b>Stress-NG - CPU Stress</b>	135845	120965	<b>140717</b>	<b>119736</b>	137195	136088	138853
(Bogo Ops/s)							
Normalized	96.54%	85.96%	100%	85.09%	97.5%	96.71%	98.68%
Standard Deviation	0.4%	0.4%	0.3%	0.3%	0.7%	0.6%	0%
<b>Stress-NG - Semaphores</b>	<b>6433945</b>	7023878	6478012	12375254	14395329	12219151	<b>14581624</b>
(Bogo Ops/s)							
Normalized	44.12%	48.17%	44.43%	84.87%	98.72%	83.8%	100%
Standard Deviation	0.5%	0.3%	1.5%	0%	0.1%	0.1%	0.1%
<b>Stress-NG - Matrix Math</b>	307771	290508	<b>324399</b>	322138	<b>287622</b>	307119	310375
(Bogo Ops/s)							
Normalized	94.87%	89.55%	100%	99.3%	88.66%	94.67%	95.68%
Standard Deviation	0.1%	0.5%	0.2%	0.2%	0.2%	0.1%	0.3%
<b>Stress-NG - Vector Math</b>	323484	289906	307010	<b>258246</b>	323883	324345	<b>327978</b>
(Bogo Ops/s)							
Normalized	98.63%	88.39%	93.61%	78.74%	98.75%	98.89%	100%
Standard Deviation	0.4%	0.3%	0.2%	2%	0.5%	0.5%	0.1%
<b>Stress-NG - Memory Copying</b>	13436	12729	13333	<b>8847</b>	12851	13248	<b>13458</b>
(Bogo Ops/s)							
Normalized	99.84%	94.58%	99.07%	65.74%	95.49%	98.44%	100%
Standard Deviation	0.1%	0.1%	0.2%	1.1%	0.1%	0.1%	0.3%
<b>Stress-NG - Context Switching</b>	<b>4369355</b>	5399024	4487317	11877978	5702782	<b>20744069</b>	5495132
(Bogo Ops/s)							
Normalized	21.06%	26.03%	21.63%	57.26%	27.49%	100%	26.49%
Standard Deviation	1.9%	2%	2.2%	3.2%	0.4%	1.8%	0.7%
<b>Stress-NG - G.Q.D.S</b>	<b>917.54</b>	964.44	936.98	<b>981.51</b>	944.05	934.51	971.00
(Bogo Ops/s)							
Normalized	93.48%	98.26%	95.46%	100%	96.18%	95.21%	98.93%
Standard Deviation	0.6%	0.8%	0.6%	0.2%	0.1%	0.6%	0.2%
<b>Stress-NG - S.V.M.P</b>	2900794	<b>2857499</b>	<b>8150981</b>	5030927	7110771	6948990	6930568
(Bogo Ops/s)							
Normalized	35.59%	35.06%	100%	61.72%	87.24%	85.25%	85.03%
Standard Deviation	0.2%	0.3%	2%	0%	0.1%	2.4%	0.1%

<b>SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)</b>	<b>156.935</b>	79.706	76.889	77.729	149.310	153.611	80.048	<b>59.751</b>
Normalized	100%	50.79%	48.99%	49.53%	95.14%	97.88%	51.01%	38.07%
Standard Deviation	2.5%	0.5%	0.7%	2.3%	2%	0.1%	1.2%	0.8%
<b>SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)</b>	188.230	91.815	89.823	89.821	184.182	<b>188.254</b>	92.525	<b>73.465</b>
Normalized	99.99%	48.77%	47.71%	47.71%	97.84%	100%	49.15%	39.02%
Standard Deviation	2%	0.3%	1.6%	1.4%	0.3%	0.9%	2%	1.7%
<b>SVT-HEVC - 1 - Bosphorus 1080p (FPS)</b>	<b>39.36</b>	<b>29.48</b>	30.16	30.45	38.14	37.40	29.83	36.90
Normalized	100%	74.9%	76.63%	77.36%	96.9%	95.02%	75.79%	93.75%
Standard Deviation	1.2%	1.2%	1.8%	1.2%	1.3%	1.7%	0.7%	2.4%
<b>SVT-HEVC - 7 - Bosphorus 1080p (FPS)</b>	<b>334.10</b>	168.51	170.04	168.96	312.30	316.49	174.38	<b>129.98</b>
Normalized	100%	50.44%	50.89%	50.57%	93.48%	94.73%	52.19%	38.9%
Standard Deviation	1.9%	1.6%	0.3%	2.3%	1%	2.4%	1.9%	1.5%
<b>SVT-HEVC - 10 - Bosphorus 1080p (FPS)</b>	<b>596.52</b>	266.28	261.98	257.25	571.26	578.59	264.92	<b>213.47</b>
Normalized	100%	44.64%	43.92%	43.13%	95.77%	96.99%	44.41%	35.79%
Standard Deviation	1.6%	0.7%	0.5%	1.3%	0.6%	0.3%	1.9%	2.2%
<b>SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)</b>	<b>477.52</b>	217.65	214.89	212.57	460.40	477.41	221.22	<b>169.61</b>
Normalized	100%	45.58%	45%	44.52%	96.41%	99.98%	46.33%	35.52%
Standard Deviation	1.4%	2.4%	2.4%	2.3%	2.4%	2.5%	1.5%	2.5%
<b>SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)</b>	<b>481.19</b>	211.31	210.30	210.19	449.99	473.84	214.71	<b>168.52</b>
Normalized	100%	43.91%	43.7%	43.68%	93.52%	98.47%	44.62%	35.02%
Standard Deviation	1.5%	0.3%	1.8%	0.7%	0.4%	2%	2%	1.9%
<b>SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)</b>	369.18	177.02	175.37	174.84	361.65	<b>378.07</b>	175.65	<b>127.91</b>
Normalized	97.65%	46.82%	46.39%	46.25%	95.66%	100%	46.46%	33.83%
Standard Deviation	1.7%	3.4%	4%	2%	1.6%	2.4%	3%	1.6%
<b>Tachyon - Total Time (sec)</b>	<b>22.0506</b>	24.0886	24.0235	24.0281	<b>24.3076</b>	23.6410	23.6253	23.6892
Normalized	100%	91.54%	91.79%	91.77%	90.71%	93.27%	93.33%	93.08%
Standard Deviation	0.3%	0.2%	0.2%	0.2%	0.2%	0.4%	0.3%	0.2%
<b>Timed Gem5 Compilation - Time To</b>	<b>170.147</b>	180.514	<b>234.970</b>	196.188		179.659		
Normalized	100%	94.26%	72.41%	86.73%		94.71%		
Standard Deviation	1.1%	0.3%	1.9%	2.5%		1.8%		
<b>WireGuard + Linux Networking Stack Stress Test (sec)</b>	<b>249.622</b>	605.178	590.217	<b>623.198</b>		256.068	580.279	460.662
Normalized	100%	41.25%	42.29%	40.06%		97.48%	43.02%	54.19%
Standard Deviation	1.4%	3.3%	1.7%	1.5%		0.3%	2.4%	0.7%
<b>Xcompact3d Incompact3d - X.b.i.i (sec)</b>	<b>280.482768</b>	293.971924	298.321961	289.724233	319.809102	<b>324.538951</b>	294.412639	316.644399
Normalized	100%	95.41%	94.02%	96.81%	87.7%	86.42%	95.27%	88.58%
Standard Deviation	0.2%	0.8%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%

<b>Xcompact3d</b>	<b>10.7636703</b>	11.3107700	11.5400302	11.2158957	12.0911318	<b>12.3377584</b>	11.4217421	11.9100717
<b>Incompact3d - i.i.1.C.P.D (sec)</b>								
<b>Normalized</b>	100%	95.16%	93.27%	95.97%	89.02%	87.24%	94.24%	90.37%
<b>Standard Deviation</b>	0.1%	0.5%	0.8%	0.9%	1.5%	2.1%	0.7%	0.5%
<b>Zstd Compression - 3 - Compression Speed (MB/s)</b>	7850	5785	<b>5093</b>	6467	<b>9099</b>	7571	6695	5896
<b>Normalized</b>	86.19%	63.53%	55.92%	71.01%	99.91%	83.13%	73.52%	64.74%
<b>Standard Deviation</b>	0.4%	3.9%	2.4%	2.3%	2.5%	0.3%	1.3%	2.2%
<b>Zstd Compression - 3 - D.S (MB/s)</b>	3028	2759	<b>1918</b>	2959		2987	<b>3063</b>	
<b>Normalized</b>	98.88%	90.09%	62.62%	96.63%		97.54%	100%	
<b>Standard Deviation</b>		0.4%	0.9%			0.4%	0.1%	
<b>Zstd Compression - 19 - Compression Speed (MB/s)</b>	88.0	74.8	<b>61.8</b>	80.1	66.4	<b>88.6</b>	84.3	75.4
<b>Normalized</b>	99.32%	84.42%	69.75%	90.41%	74.94%	100%	95.15%	85.1%
<b>Standard Deviation</b>	0.5%	2.4%	2.3%	0.3%	1.2%	0.4%	2.7%	0.1%
<b>Zstd Compression - 19 - D.S (MB/s)</b>	2553	2476	2512	2535	2553	2543	<b>2576</b>	<b>2380</b>
<b>Normalized</b>	99.08%	96.11%	97.5%	98.42%	99.11%	98.7%	100%	92.38%
<b>Standard Deviation</b>	0.7%	1.2%	2.2%	0.4%	0.2%	0.2%	0.7%	0.4%
<b>Zstd Compression - 3, Long Mode - Compression Speed (MB/s)</b>	<b>1192</b>	<b>102.7</b>	155.9	292.7	401.2	1117	278.6	289.1
<b>Normalized</b>	100%	8.61%	13.07%	24.55%	33.65%	93.63%	23.36%	24.25%
<b>Standard Deviation</b>	0.3%	1.6%	0.2%	1.6%	2.4%	0.3%	0.8%	1.2%
<b>Zstd Compression - 3, Long Mode - D.S (MB/s)</b>	3234	<b>2937</b>	3008	3172	3008	3220	<b>3252</b>	3051
<b>Normalized</b>	99.46%	90.33%	92.51%	97.55%	92.5%	99.01%	100%	93.81%
<b>Standard Deviation</b>	0.1%	0.4%	0.4%	0.7%	0.1%	0%	0.9%	1.6%
<b>Zstd Compression - 8, Long Mode - Compression Speed (MB/s)</b>	<b>1004</b>	<b>125.0</b>	169.4	324.9	391.3	936.1	314.3	305.5
<b>Normalized</b>	100%	12.45%	16.88%	32.37%	38.99%	93.26%	31.31%	30.44%
<b>Standard Deviation</b>	0.7%	0.4%	0.8%	1.7%	1%	1.3%	0.9%	1.1%
<b>Zstd Compression - 8, Long Mode - D.S (MB/s)</b>	3199	<b>2930</b>	3013	3199	3031	3199	<b>3249</b>	3040
<b>Normalized</b>	98.46%	90.19%	92.74%	98.47%	93.29%	98.48%	100%	93.57%
<b>Standard Deviation</b>		0.1%	0.4%	0.5%	0.2%	0.8%	0.7%	0.4%
<b>Zstd Compression - 19, Long Mode - Compression Speed (MB/s)</b>	<b>45.4</b>	38.3	<b>15.1</b>	41.2	18.1	45.3	43.1	41.1
<b>Normalized</b>	100%	84.36%	33.26%	90.75%	39.87%	99.78%	94.93%	90.53%
<b>Standard Deviation</b>	2.5%	0.3%	0%	2.3%	2.4%	2.4%	4.2%	1%
<b>Zstd Compression - 19, Long Mode - D.S (MB/s)</b>	2625	2507	2633	2611	2672	2596	<b>2674</b>	<b>2469</b>
<b>Normalized</b>	98.15%	93.75%	98.46%	97.65%	99.9%	97.08%	100%	92.32%

Standard Deviation	0.9%	0.2%	0.5%	0.1%	0.5%	0.2%	0.2%	0.1%
<b>Zstd Compression - 3 - Compression Speed (MB/s)</b>	<b>7795</b>	6073	<b>4532</b>	6223	6546	7130	6426	6170
Normalized	100%	77.91%	58.13%	79.83%	83.97%	91.47%	82.43%	79.15%
Standard Deviation	3.1%	3.1%	0.6%	2.4%	6.5%	3.4%	2.5%	2.4%
<b>Zstd Compression - 3 - D.S (MB/s)</b>	2962	3014	2964		<b>2895</b>	2998	<b>3035</b>	
Normalized	97.58%	99.29%	97.64%		95.36%	98.78%	100%	
Standard Deviation	0.3%	0.5%			0.8%	0.7%	0.2%	
<b>Zstd Compression - 19 - Compression Speed (MB/s)</b>	88.1	81.4	<b>80.1</b>	81.8	<b>88.7</b>	88.2	85.8	80.2
Normalized	99.32%	91.77%	90.3%	92.22%	100%	99.44%	96.73%	90.42%
Standard Deviation	0.3%	0.7%	0.7%	2%	0.5%	1.4%	0.8%	0.7%
<b>Zstd Compression - 19 - D.S (MB/s)</b>	2595	2635	<b>2561</b>	2637	2581	2643	<b>2660</b>	2595
Normalized	97.54%	99.06%	96.28%	99.13%	97.05%	99.38%	100%	97.56%
Standard Deviation	0.1%	0.4%	0.3%	1.2%	0.1%	0.9%	0.3%	0.5%
<b>Zstd Compression - 3, Long Mode - Compression Speed (MB/s)</b>	1138	262.9	<b>261.1</b>	302.7	1143	<b>1189</b>	294.9	277.9
Normalized	95.75%	22.11%	21.96%	25.46%	96.14%	100%	24.8%	23.37%
Standard Deviation	0.3%	2.4%	2.3%	2.5%	0.6%	0.4%	0.3%	3.2%
<b>Zstd Compression - 3, Long Mode - D.S (MB/s)</b>	3175	3191	3101	3184	<b>3095</b>	3220	<b>3233</b>	3175
Normalized	98.21%	98.69%	95.9%	98.48%	95.75%	99.59%	100%	98.22%
Standard Deviation	0.2%	0.8%	0.8%	0.3%	0.8%	0.6%	0.4%	1.6%
<b>Zstd Compression - 8, Long Mode - Compression Speed (MB/s)</b>	1033	302.7	303.7	345.6	1038	<b>1069</b>	323.6	<b>298.7</b>
Normalized	96.68%	28.33%	28.42%	32.34%	97.13%	100%	30.28%	27.95%
Standard Deviation	0.4%	1.1%	2.1%	0.8%	0.8%	0.5%	1.5%	2.5%
<b>Zstd Compression - 19, Long Mode - Compression Speed (MB/s)</b>	47.9	46.7	45.7	<b>44.8</b>	47.1	<b>50.0</b>	47.7	46.1
Normalized	95.8%	93.4%	91.4%	89.6%	94.2%	100%	95.4%	92.2%
Standard Deviation	1.4%	3.5%	4.5%	2.7%	1.9%	1.1%	1.8%	2.7%
<b>Zstd Compression - 19, Long Mode - D.S (MB/s)</b>	2687	2693	2659	2695	<b>2647</b>	2727	<b>2742</b>	2679
Normalized	98%	98.21%	96.96%	98.29%	96.52%	99.46%	100%	97.71%
Standard Deviation	0.6%	0.2%	0.6%	0.8%	0.2%	0.1%	0.1%	0.3%
<b>Zstd Compression - 8, Long Mode - D.S (MB/s)</b>							<b>3293</b>	<b>3204</b>
Normalized							100%	97.28%
Standard Deviation							1.3%	2.6%

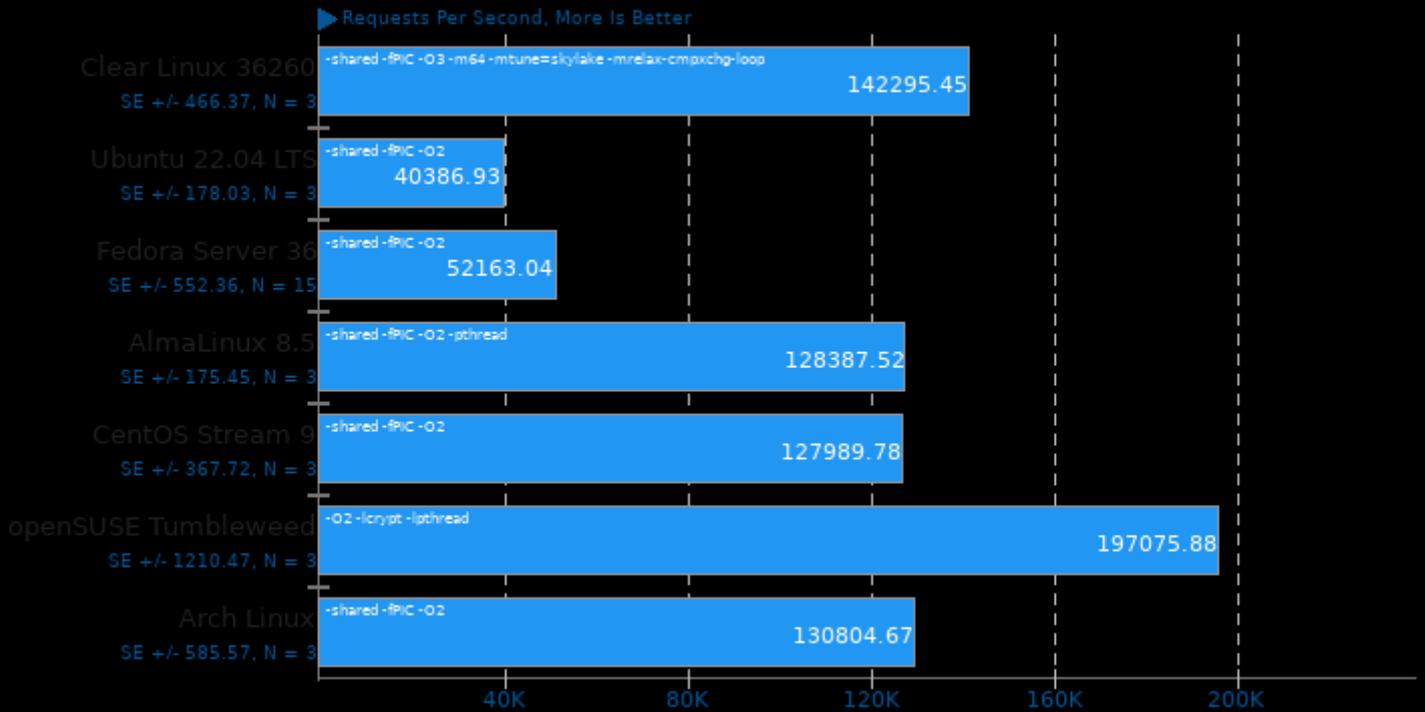
# Algebraic Multi-Grid Benchmark 1.2



1. (CC) gcc options: -lparcsr\_ls -lparcsr\_mv -lseq\_mv -ll\_mv -lkrylov -lHYPRE\_utilities -lm -fopenmp -lmpi

## Apache HTTP Server 2.4.48

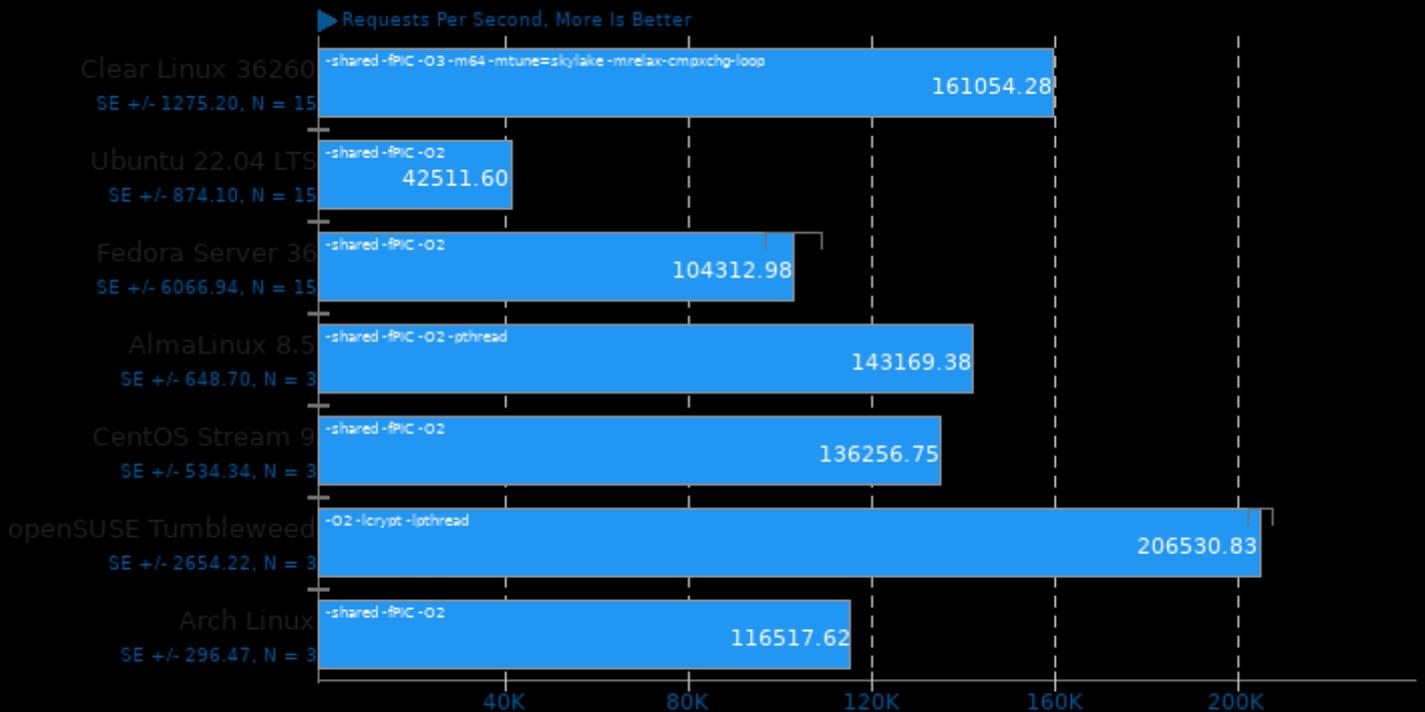
Concurrent Requests: 200



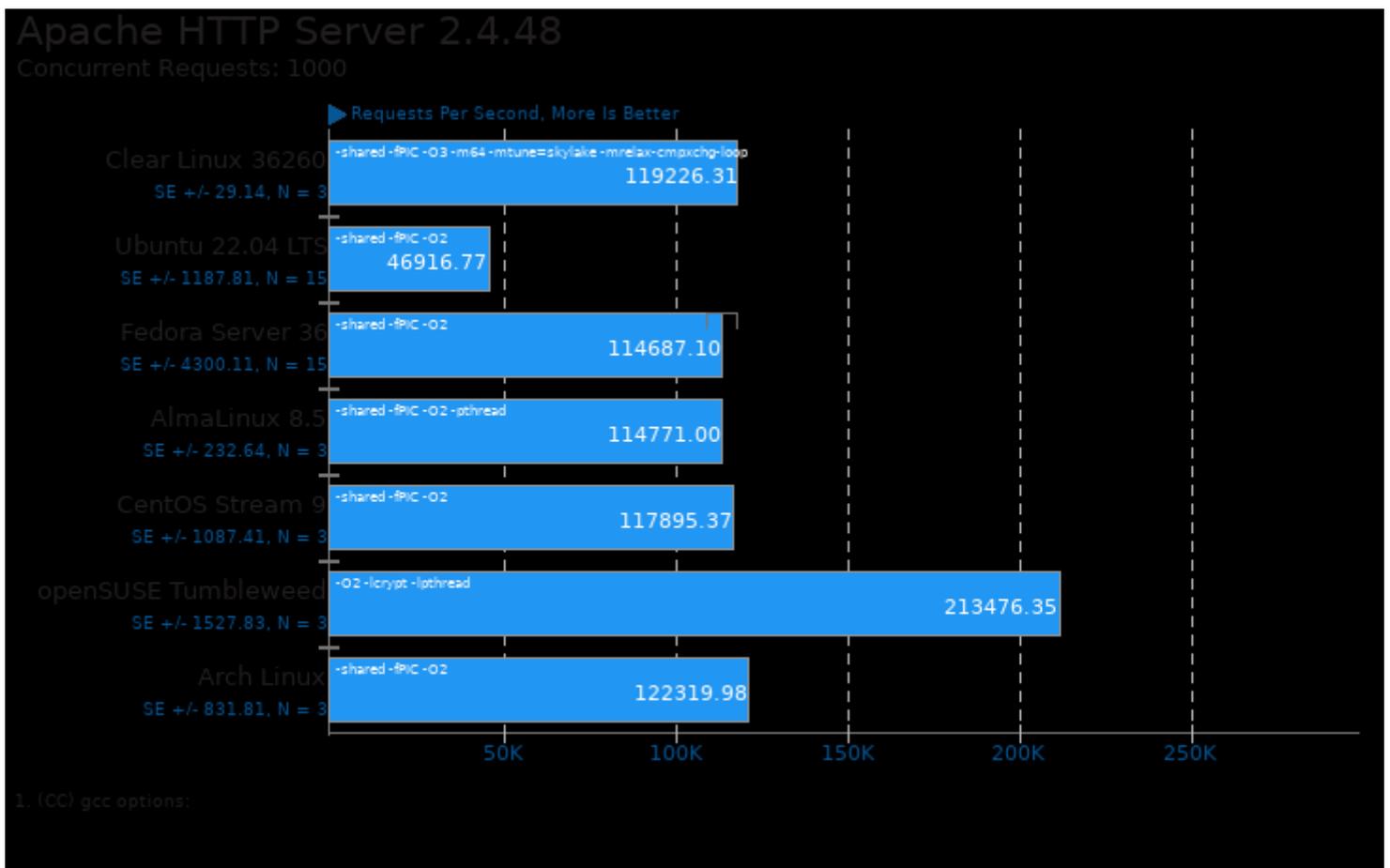
1. (C) gcc options:

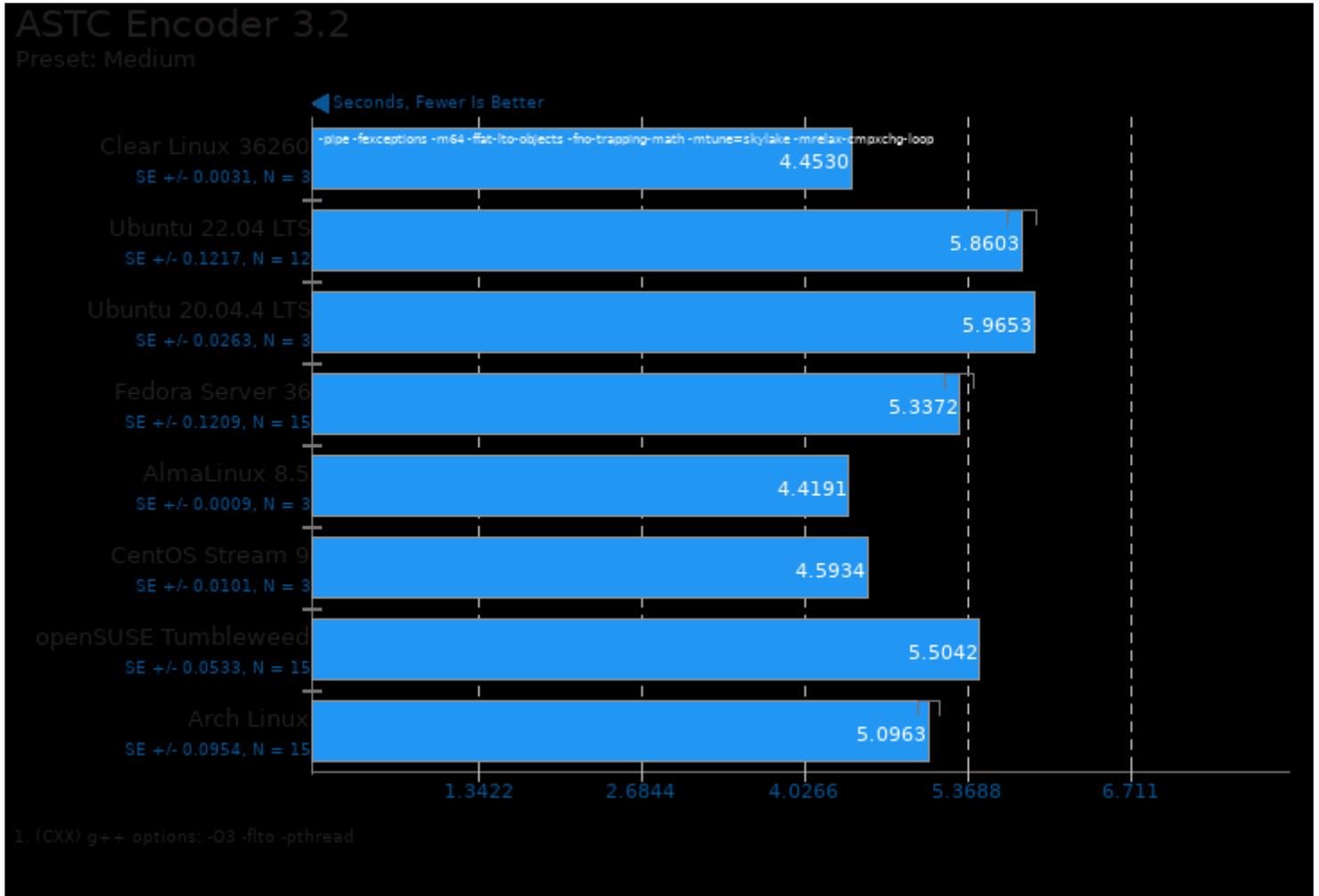
## Apache HTTP Server 2.4.48

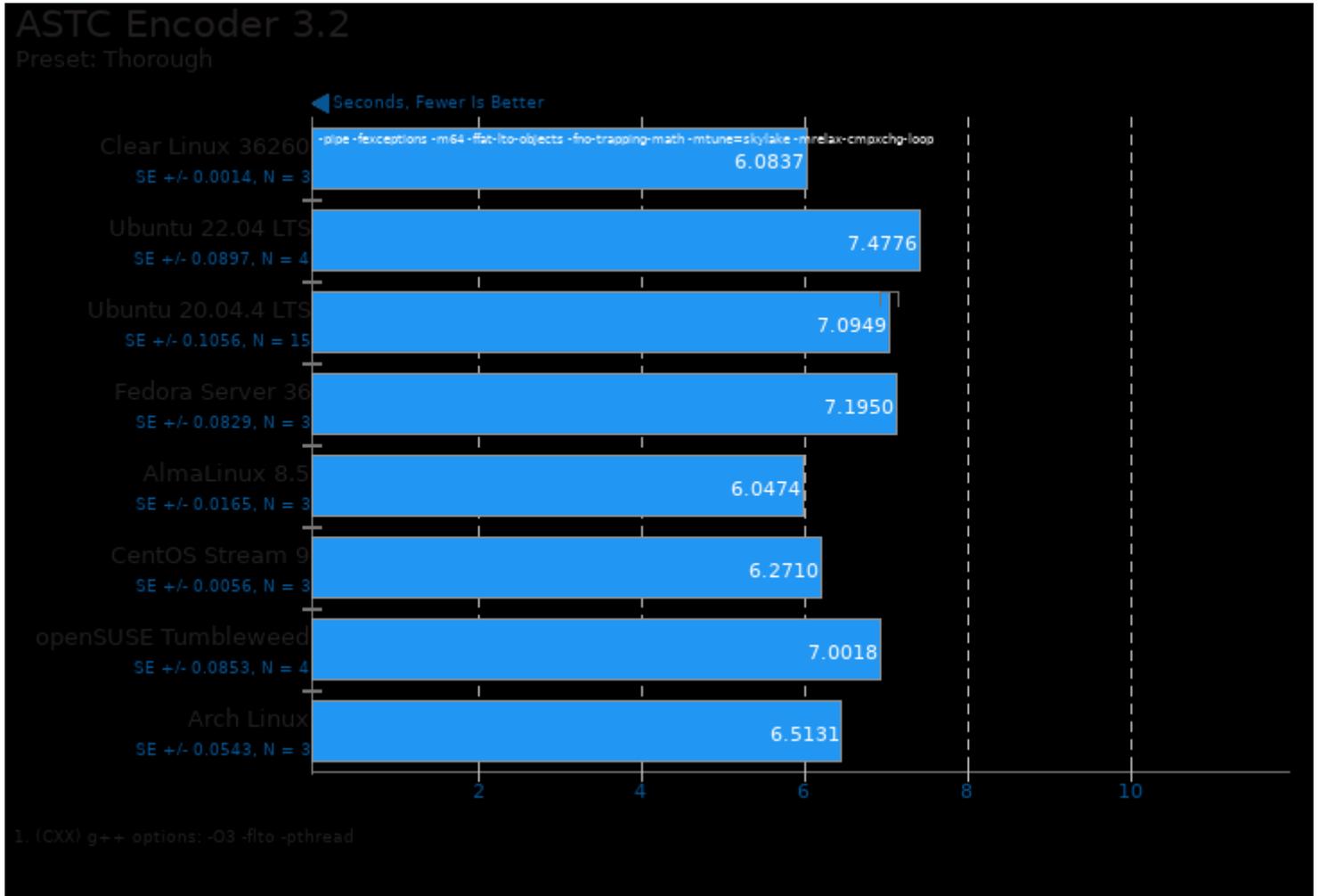
Concurrent Requests: 500

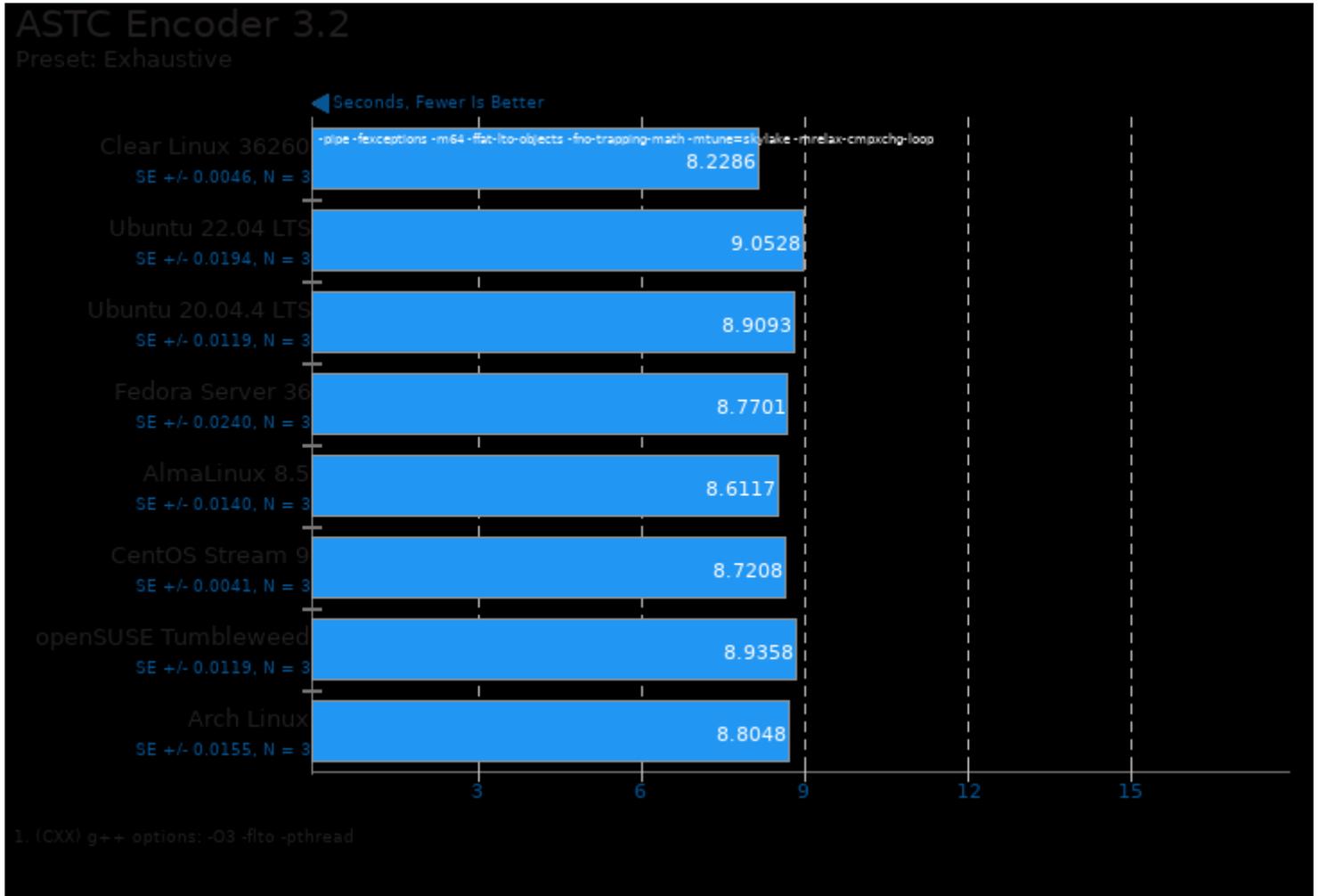


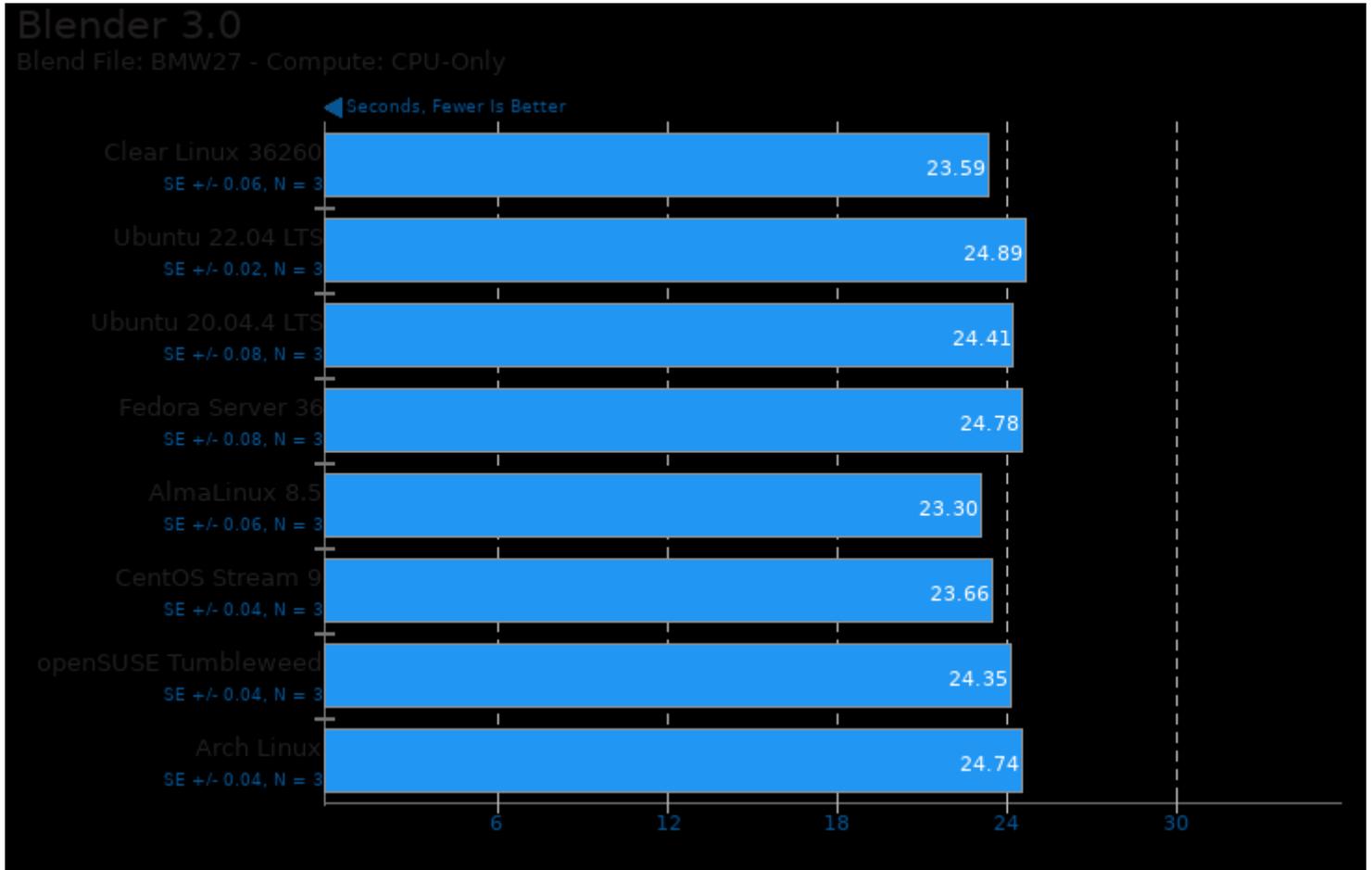
1. (C) gcc options:

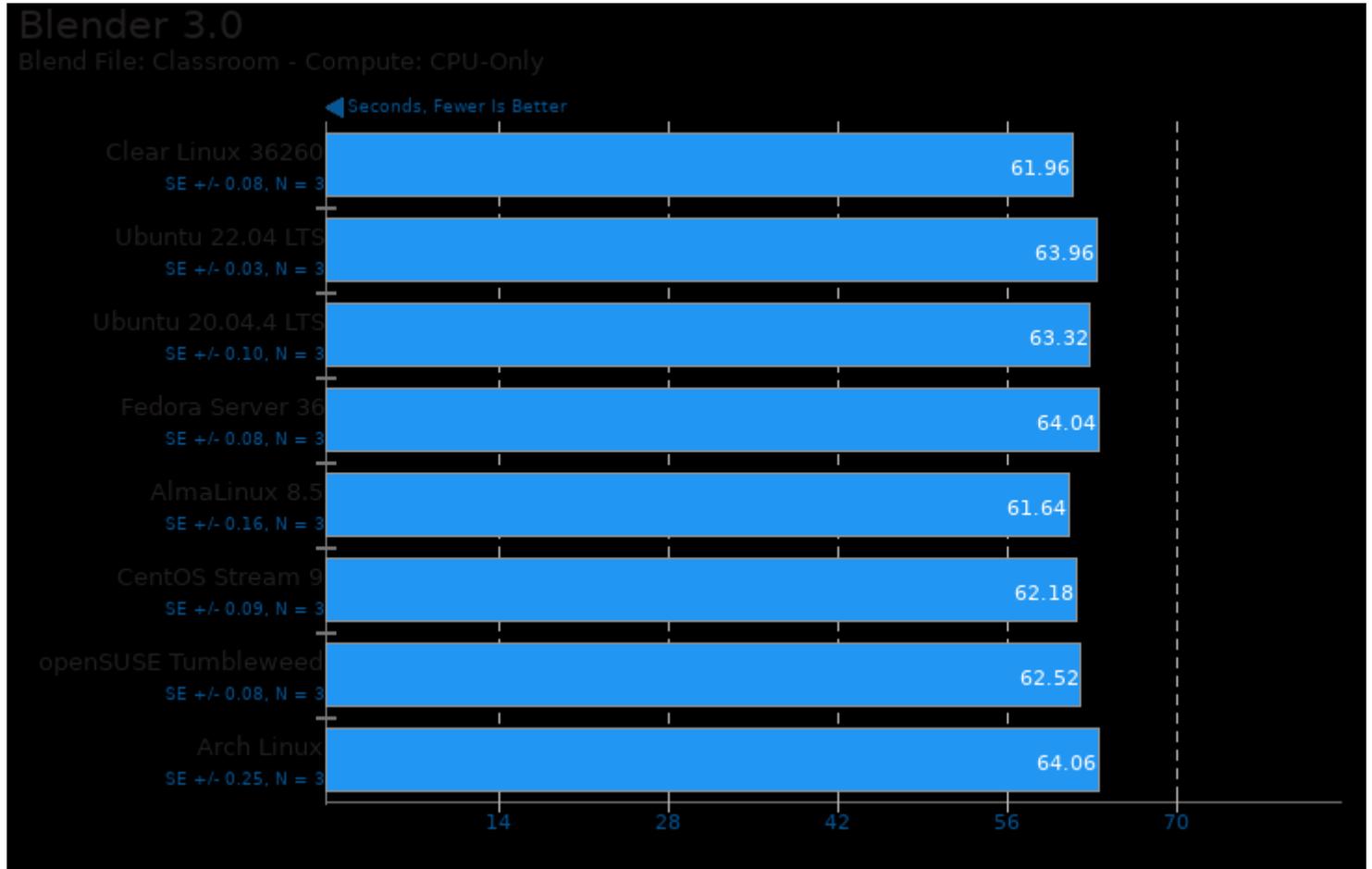


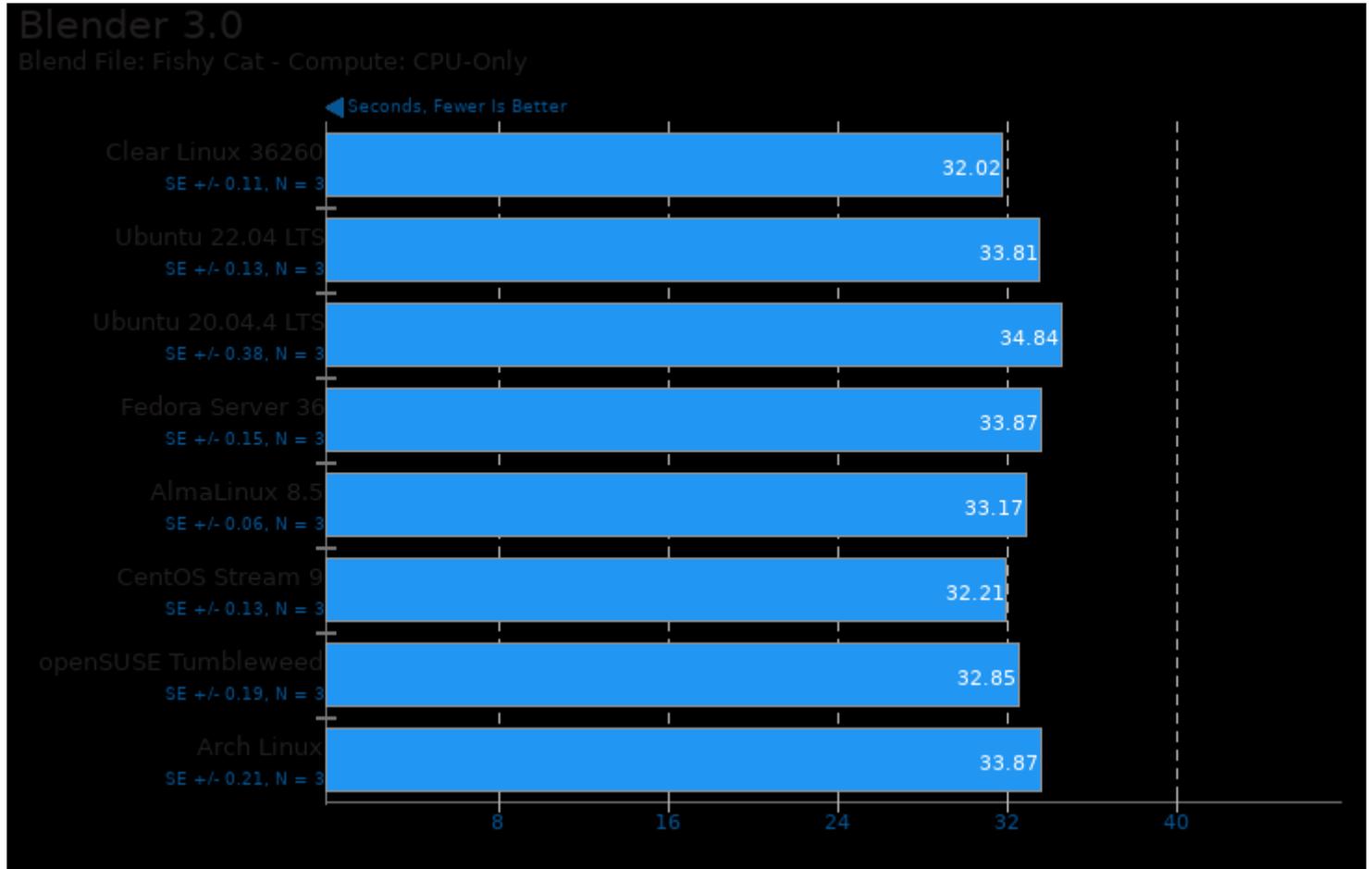


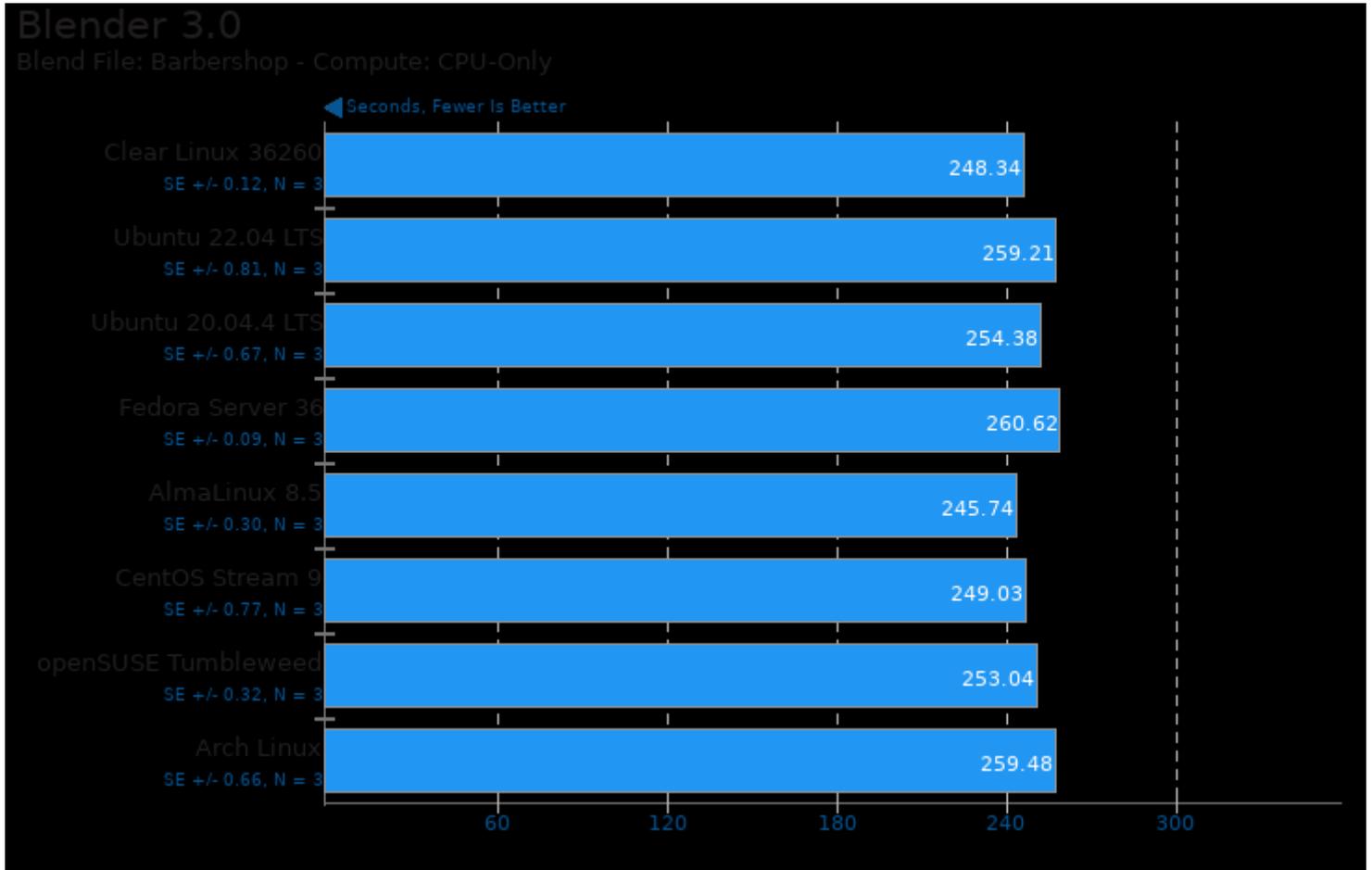


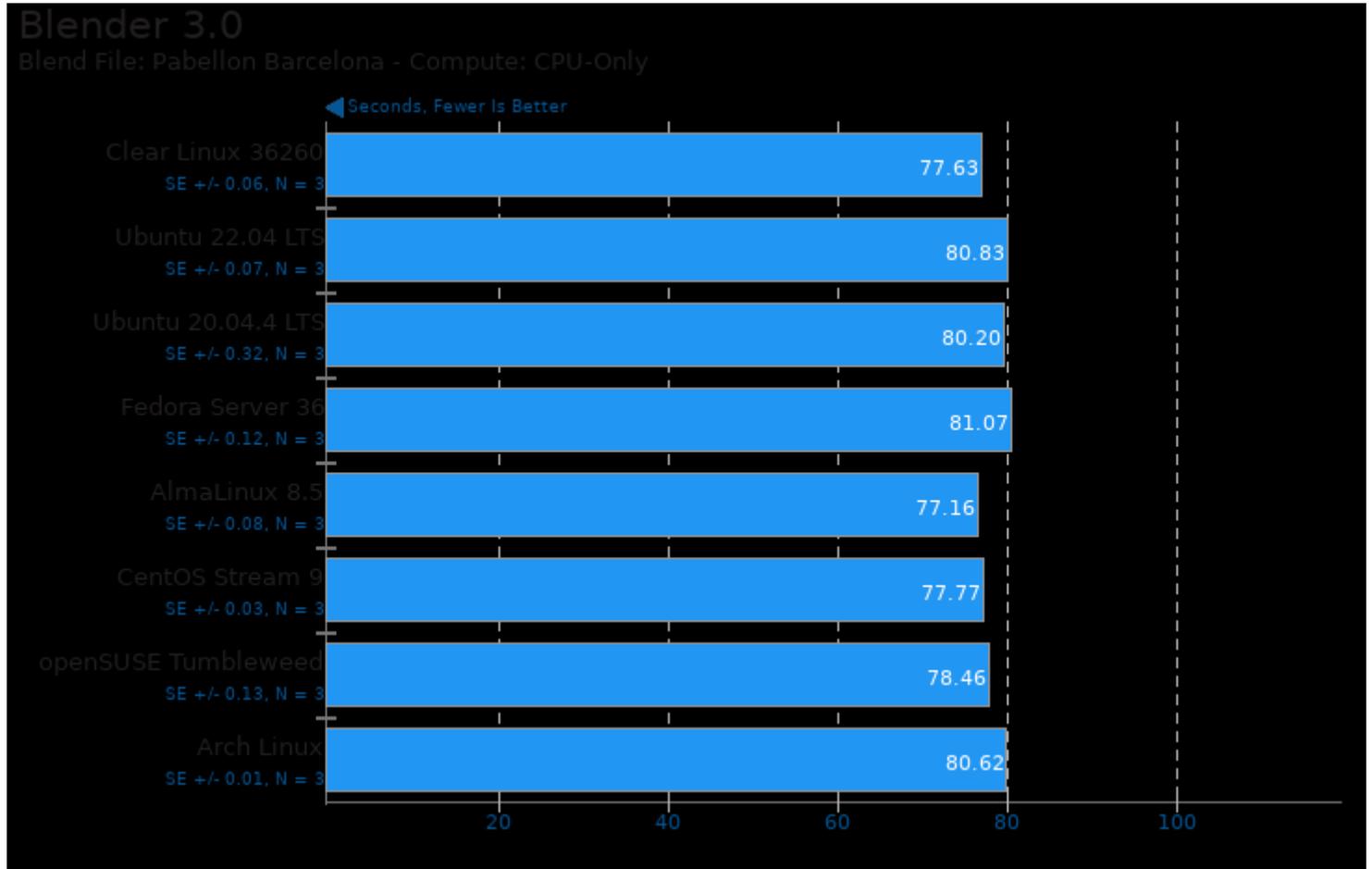


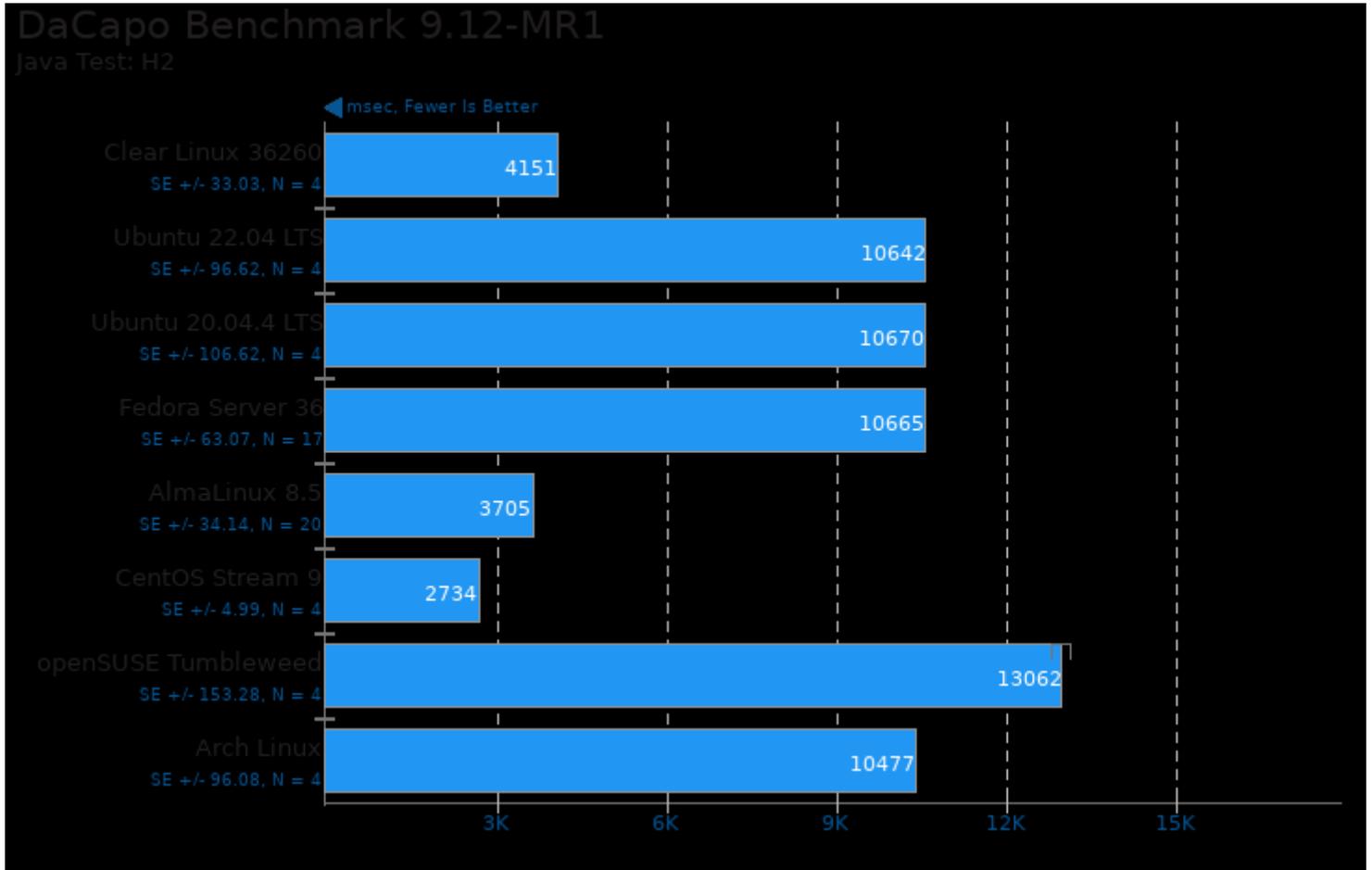






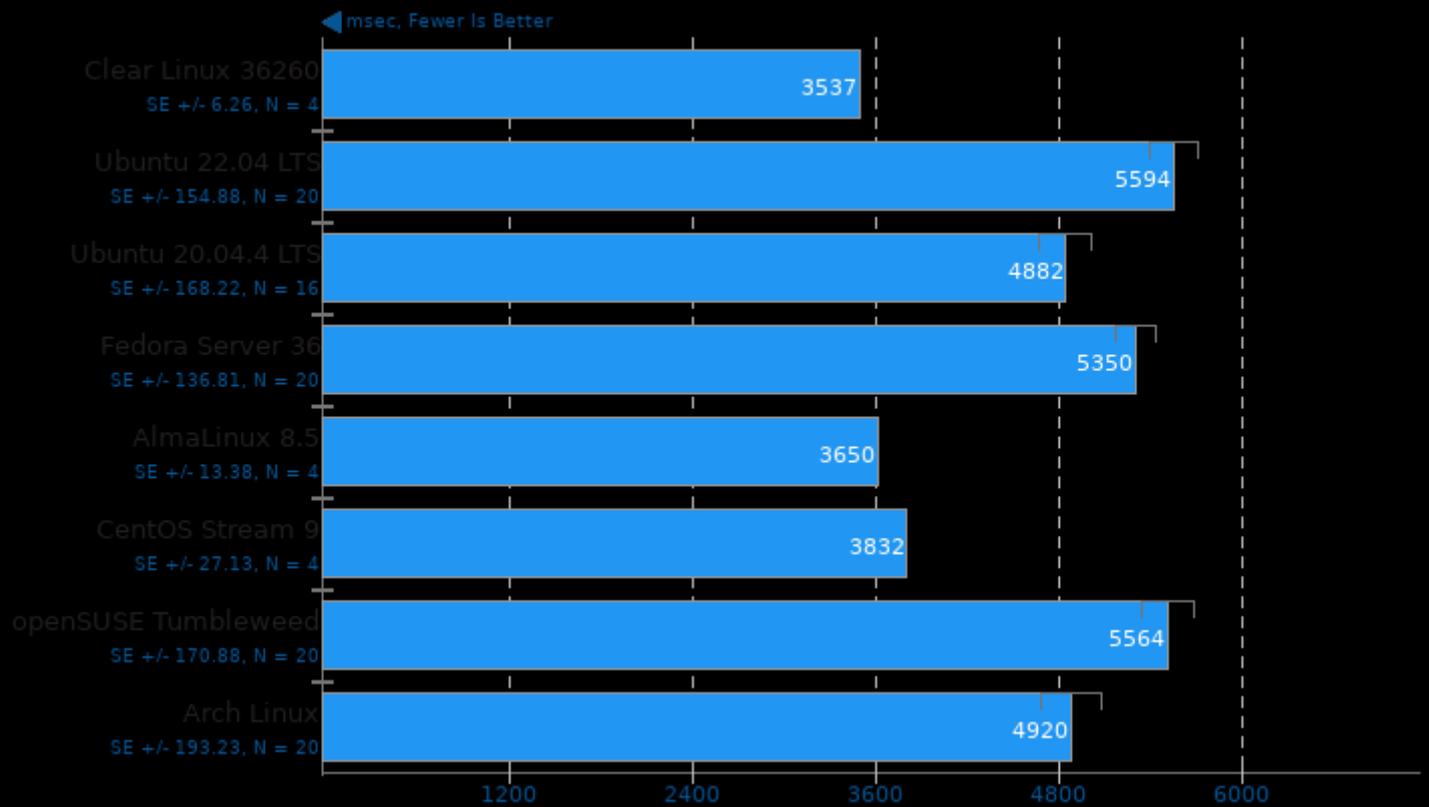






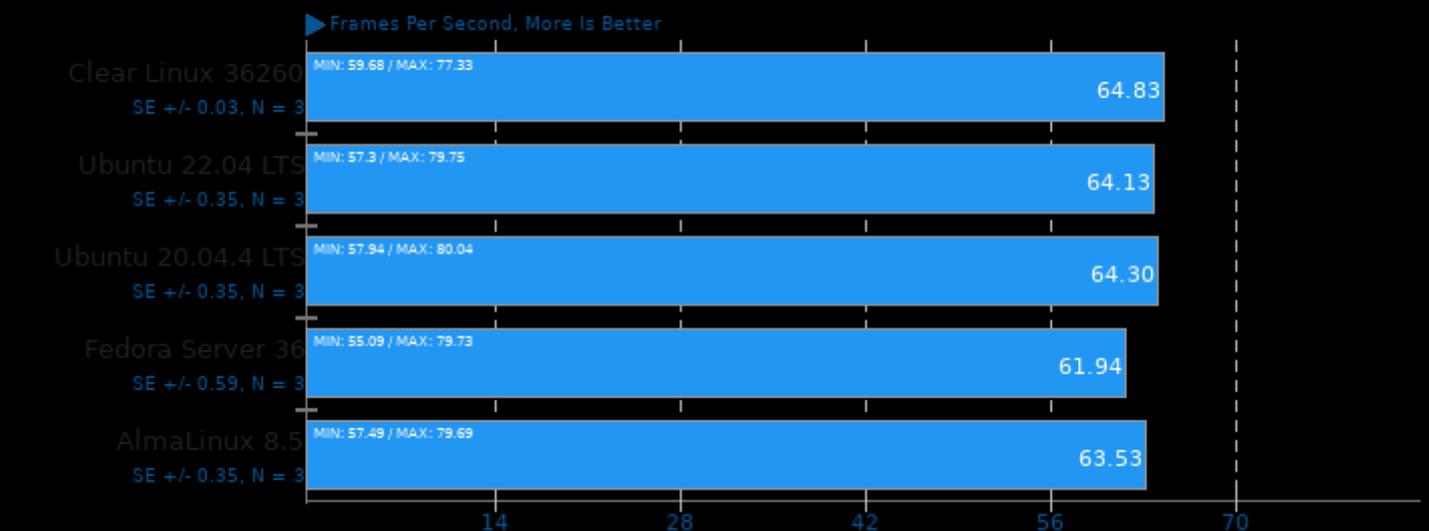
### DaCapo Benchmark 9.12-MR1

Java Test: jython



### Embree 3.13

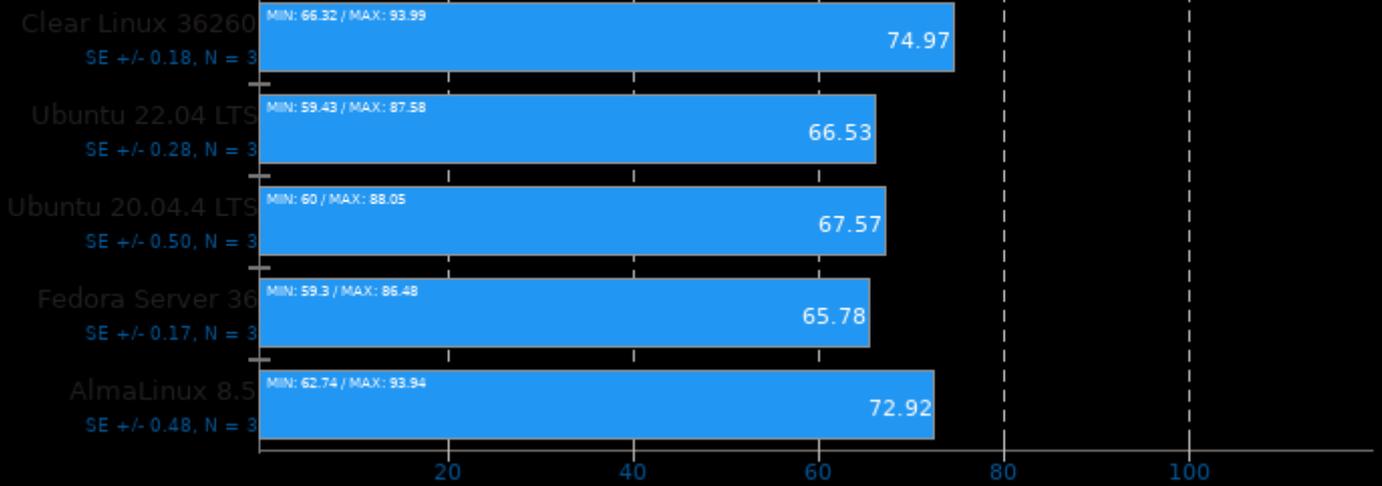
Binary: Pathtracer - Model: Crown



### Embree 3.13

Binary: Pathtracer ISPC - Model: Crown

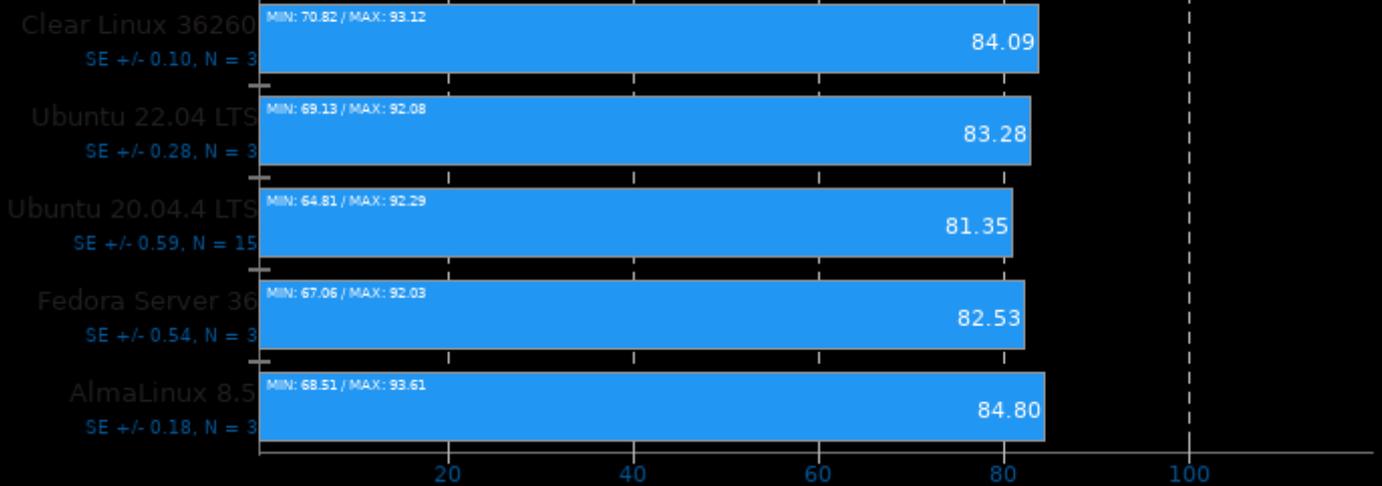
▶ Frames Per Second, More Is Better



### Embree 3.13

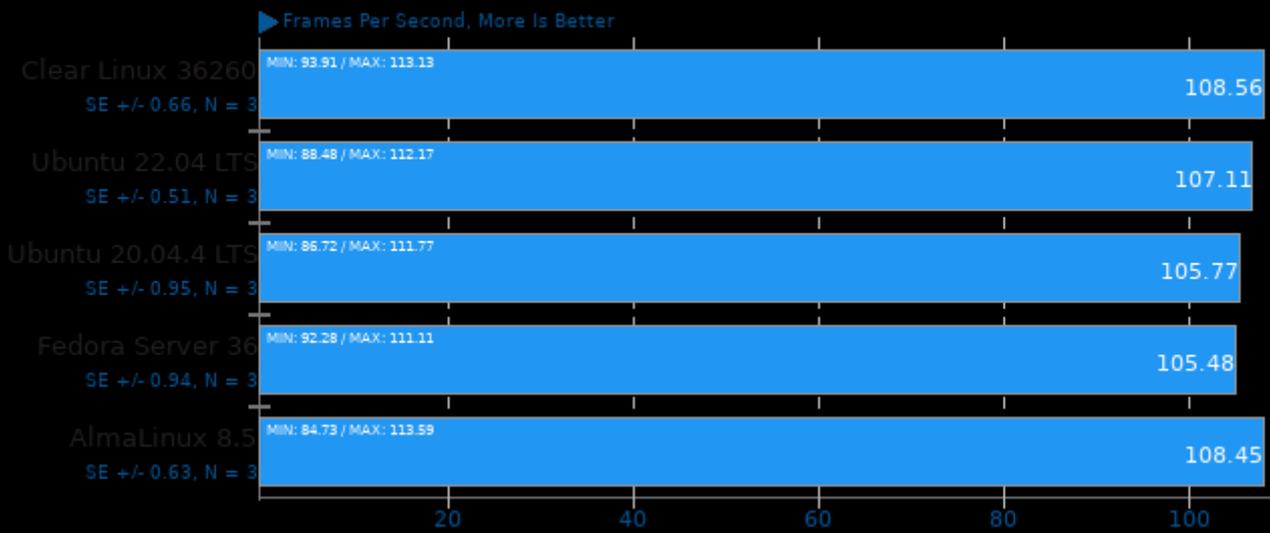
Binary: Pathtracer - Model: Asian Dragon

▶ Frames Per Second, More Is Better



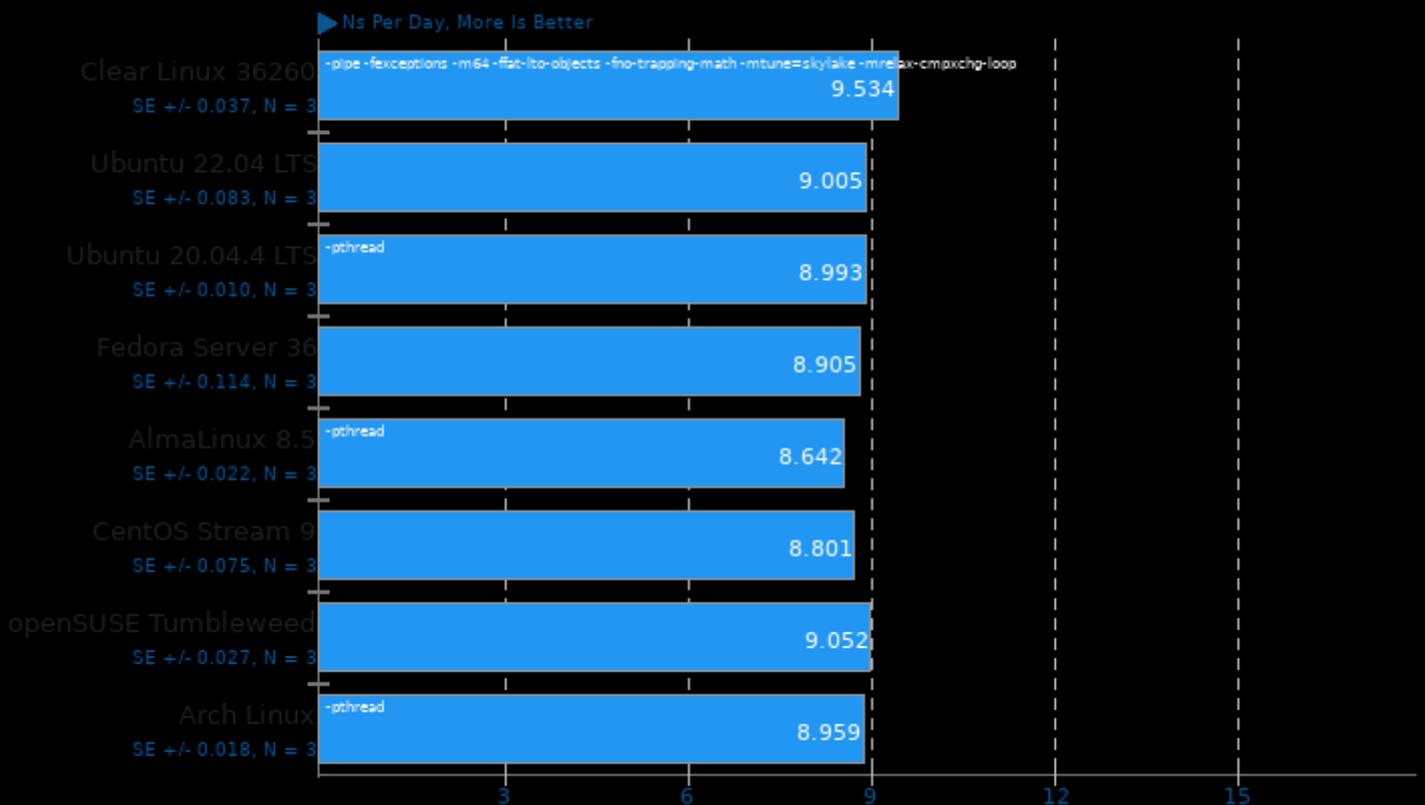
## Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon

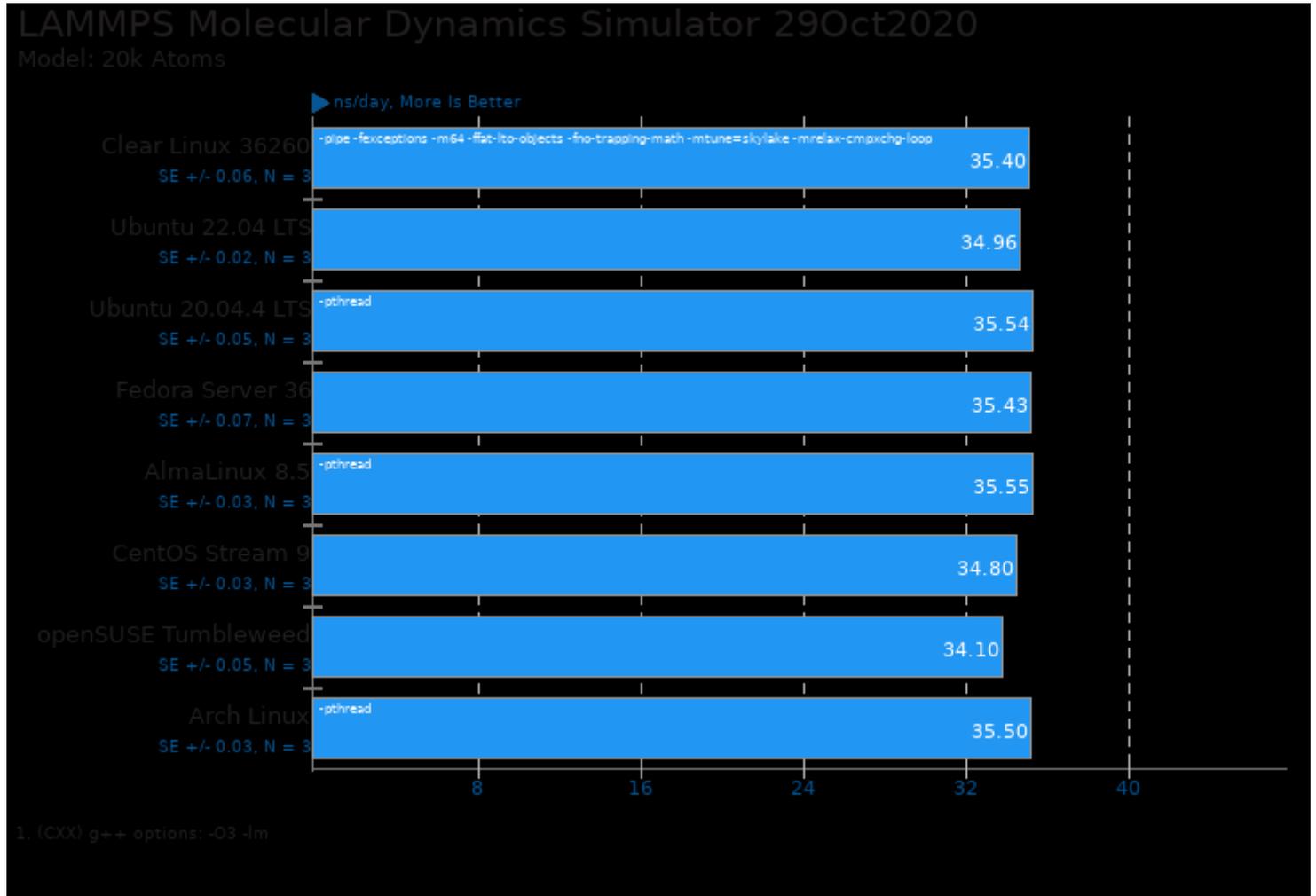


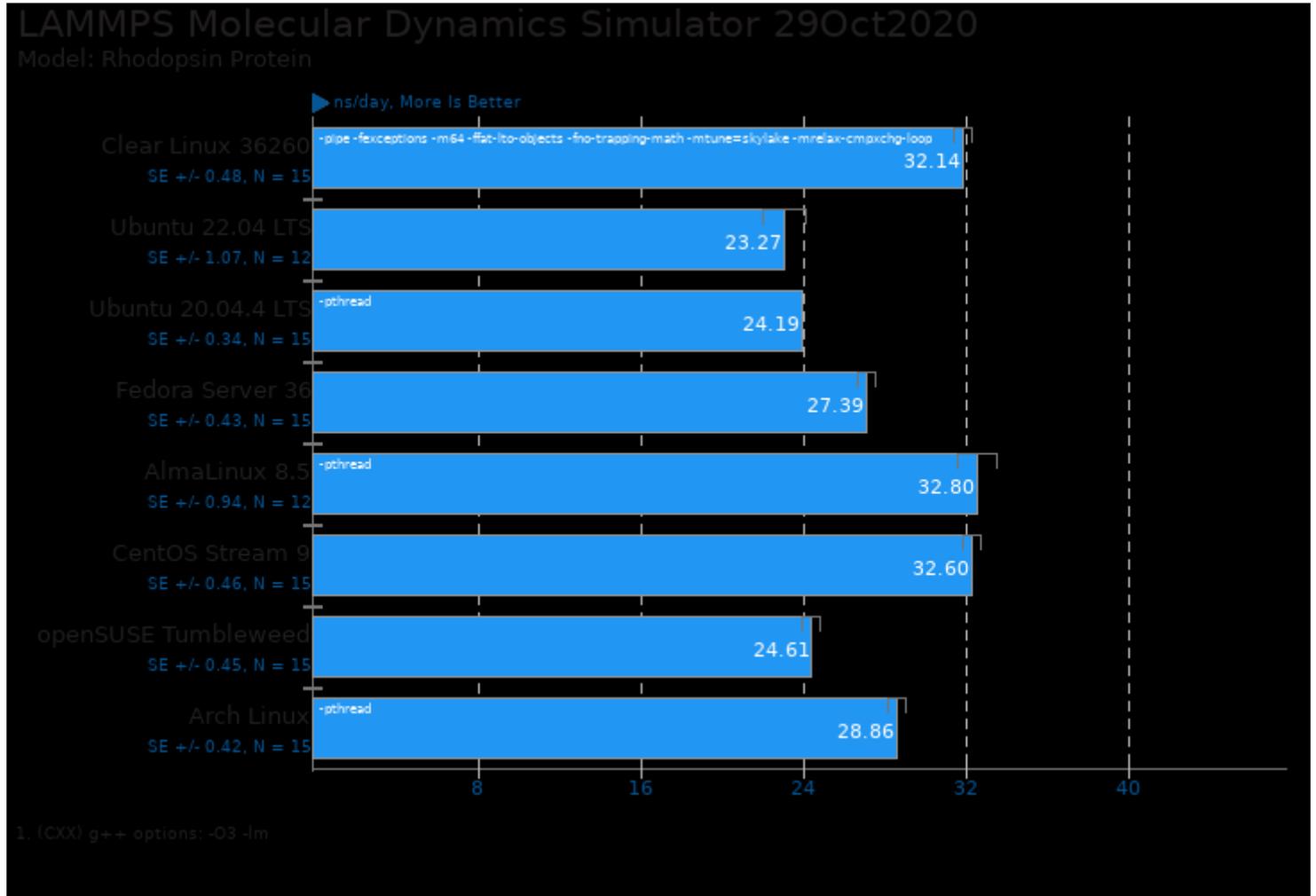
## GROMACS 2021.2

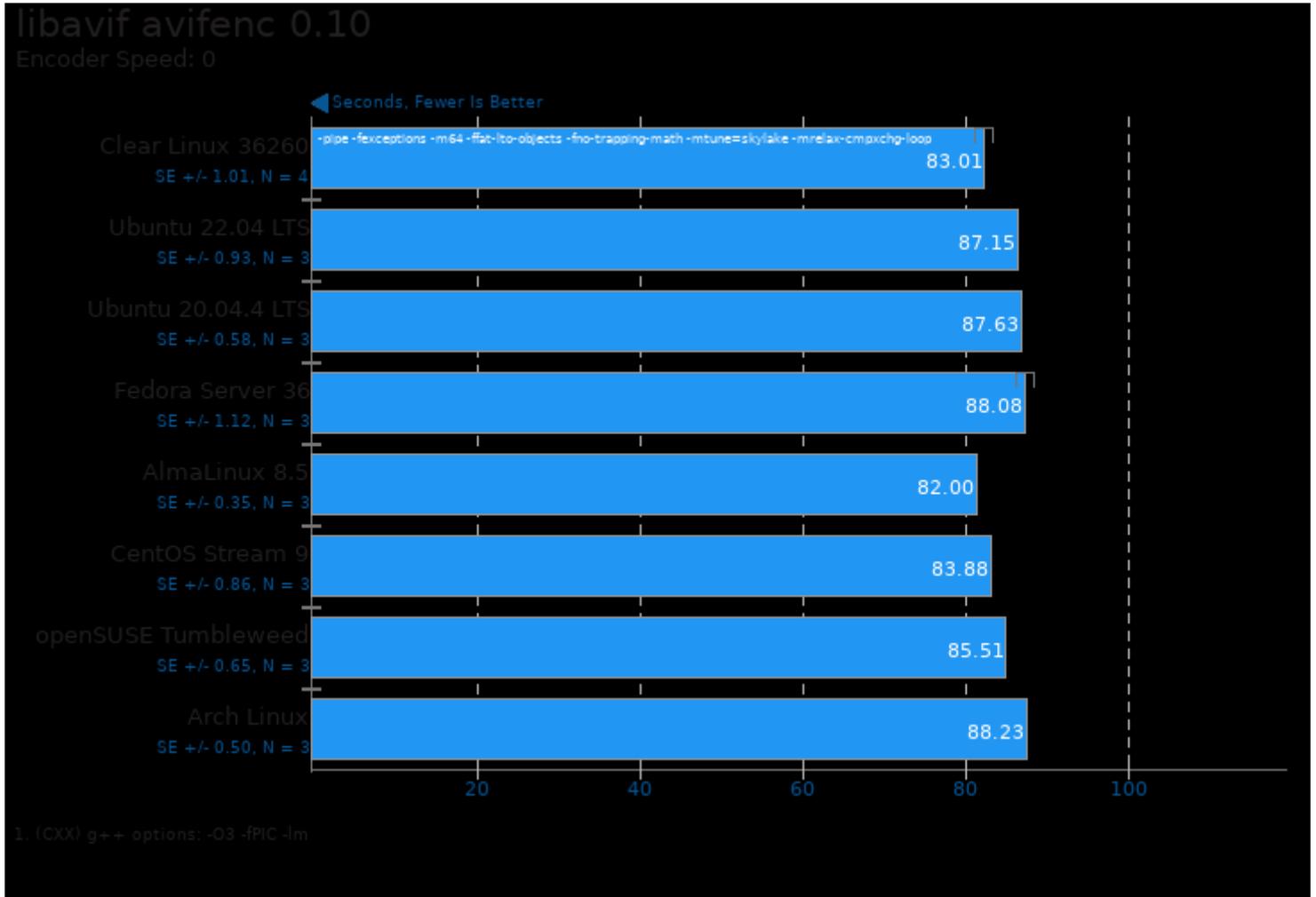
Implementation: MPI CPU - Input: water\_GMX50\_bare

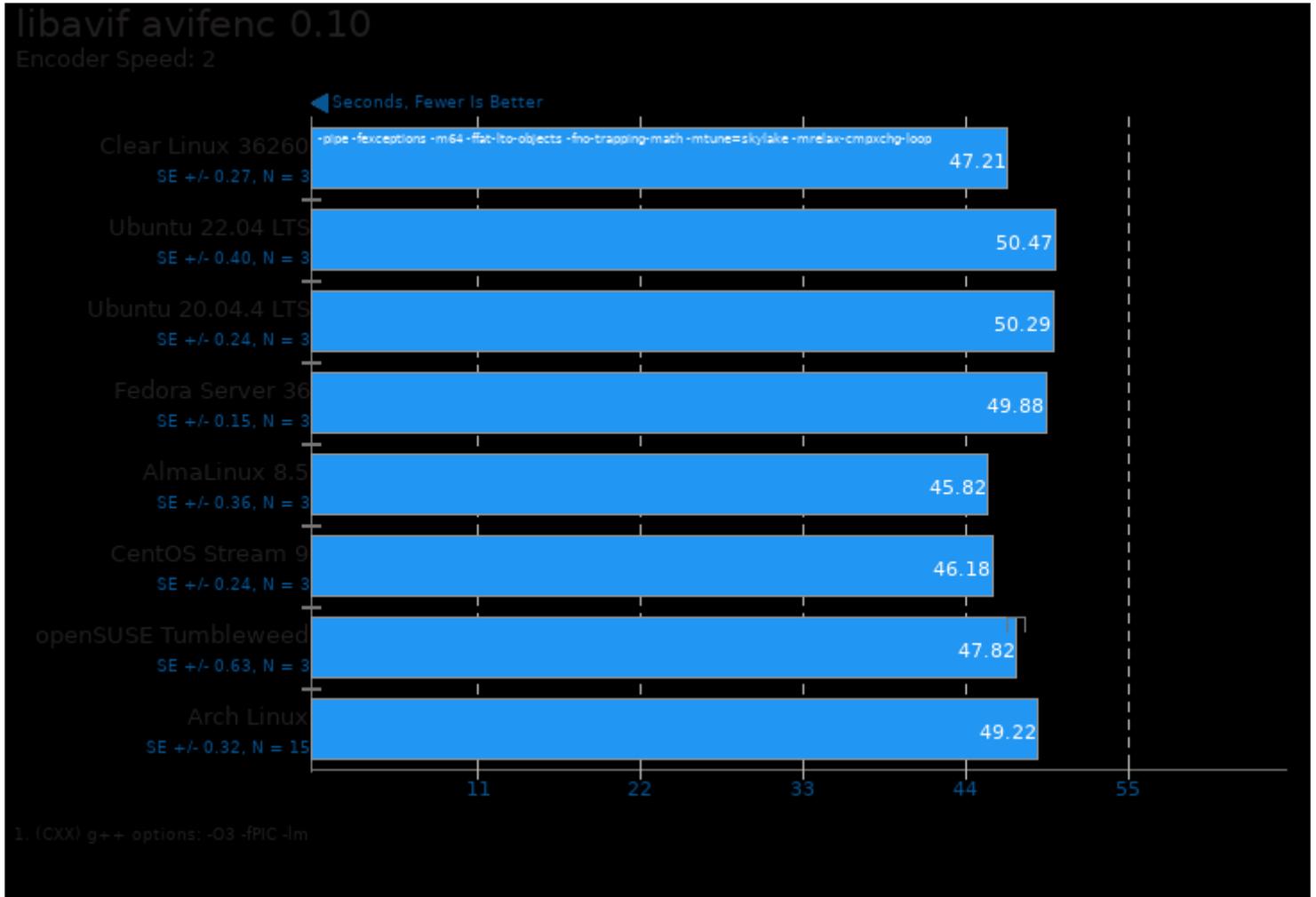


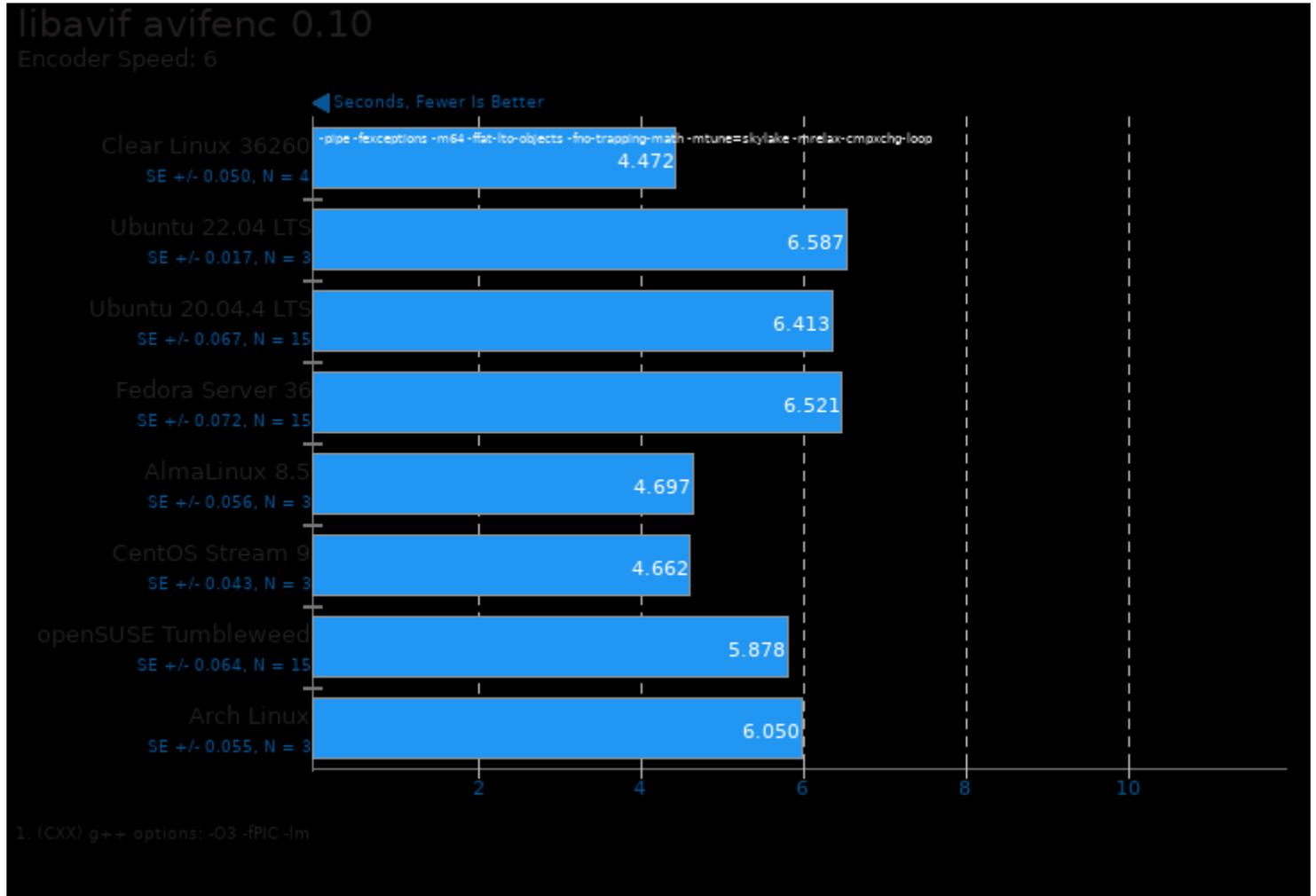
1. (CXX) g++ options: -O3

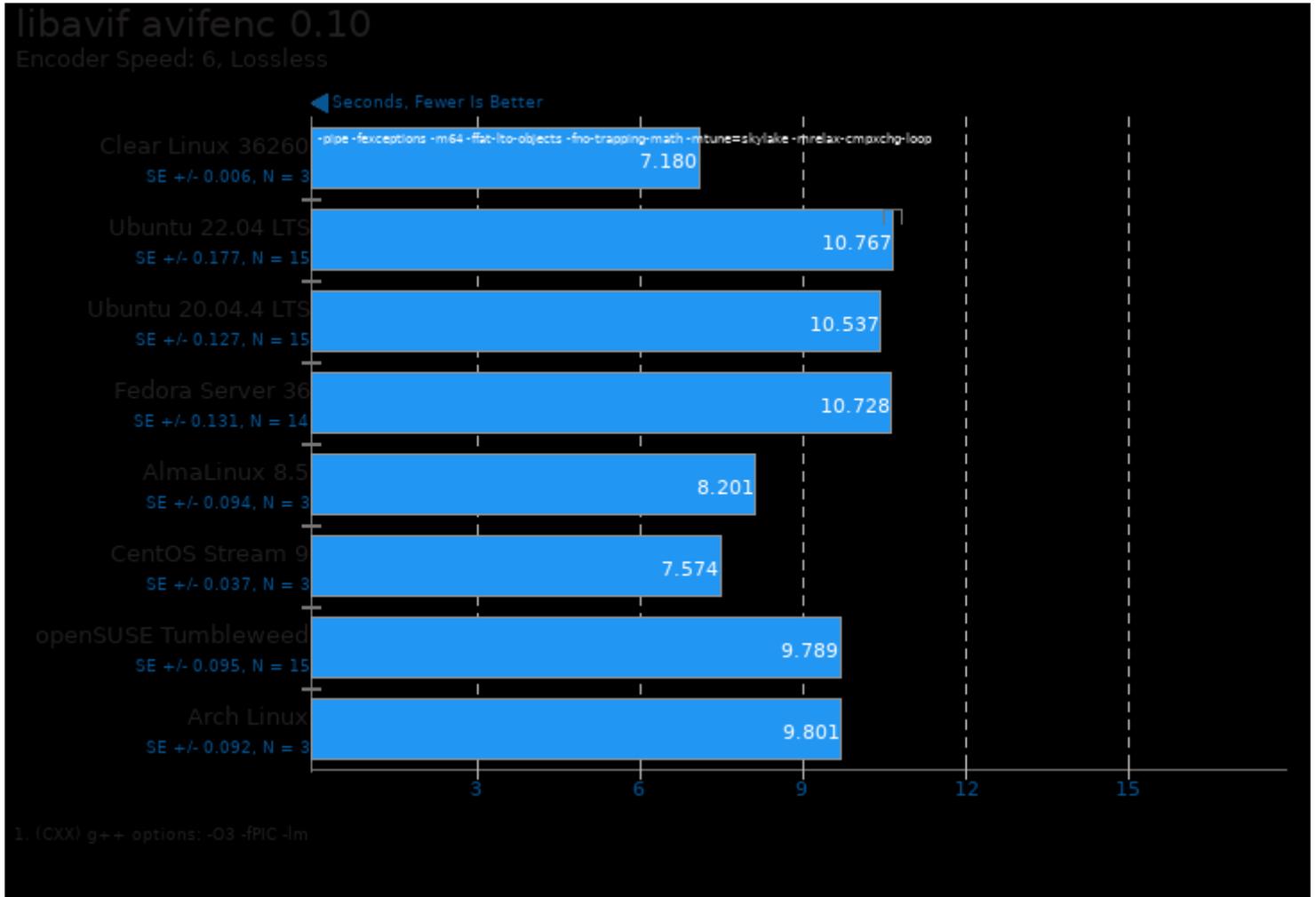


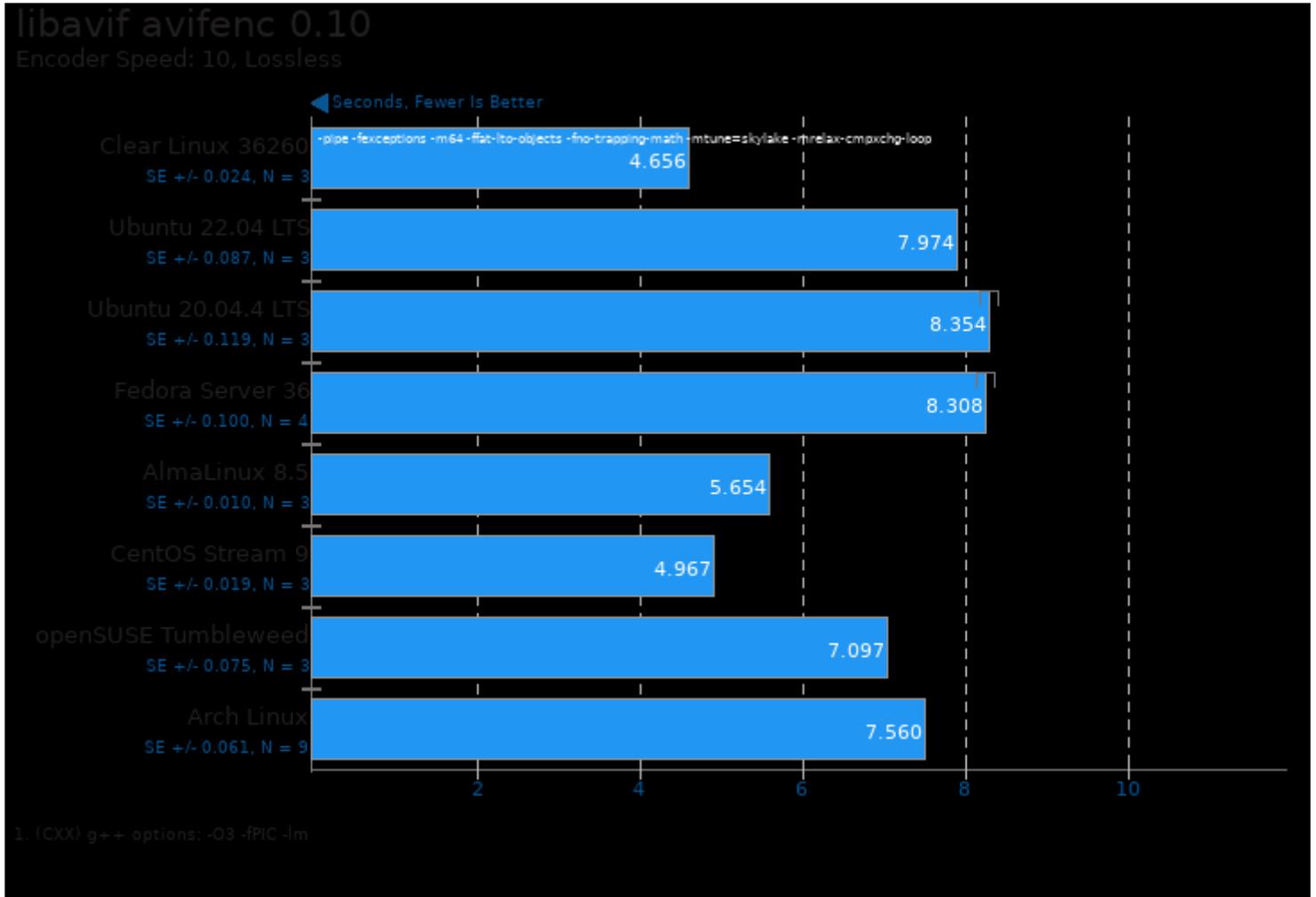


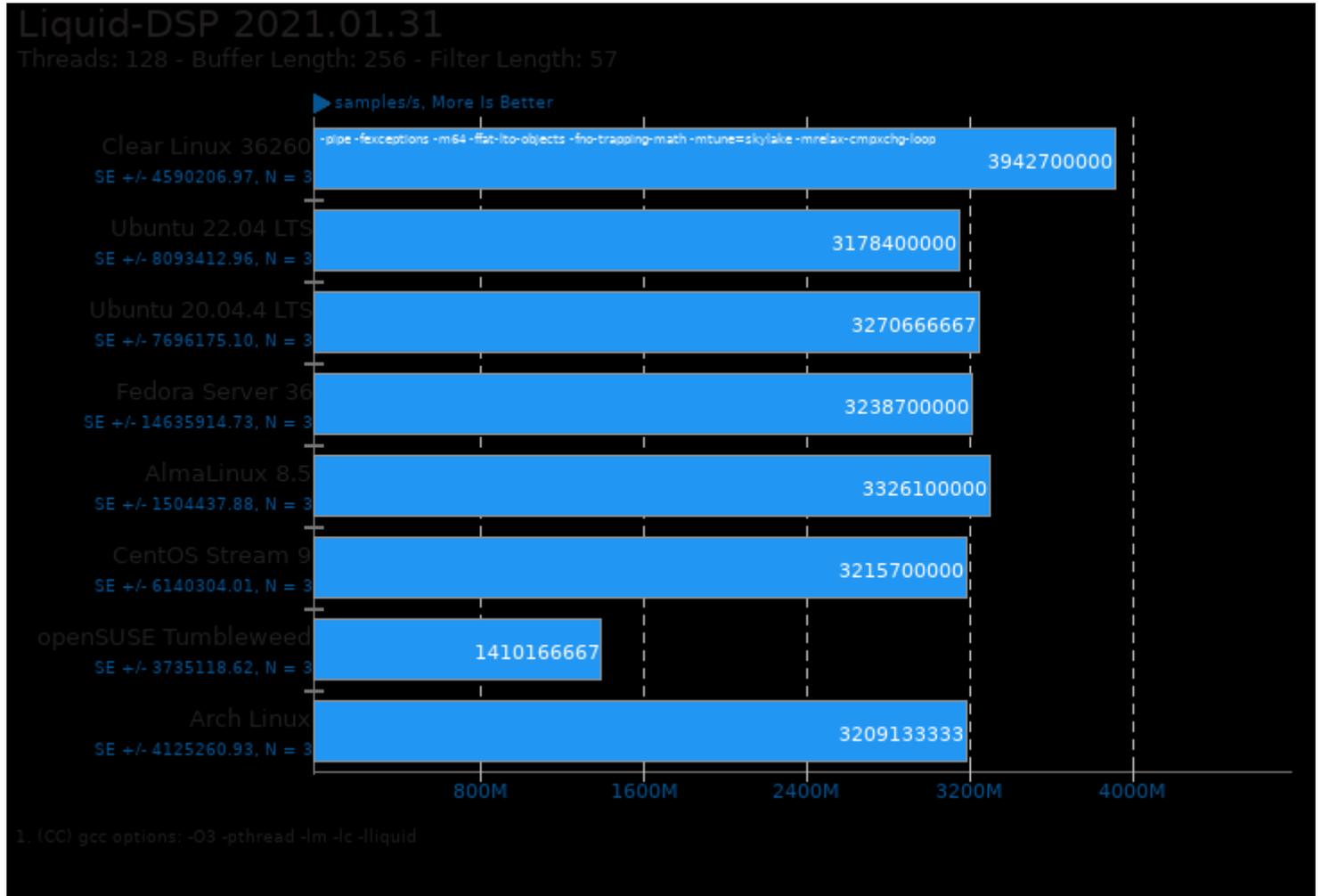






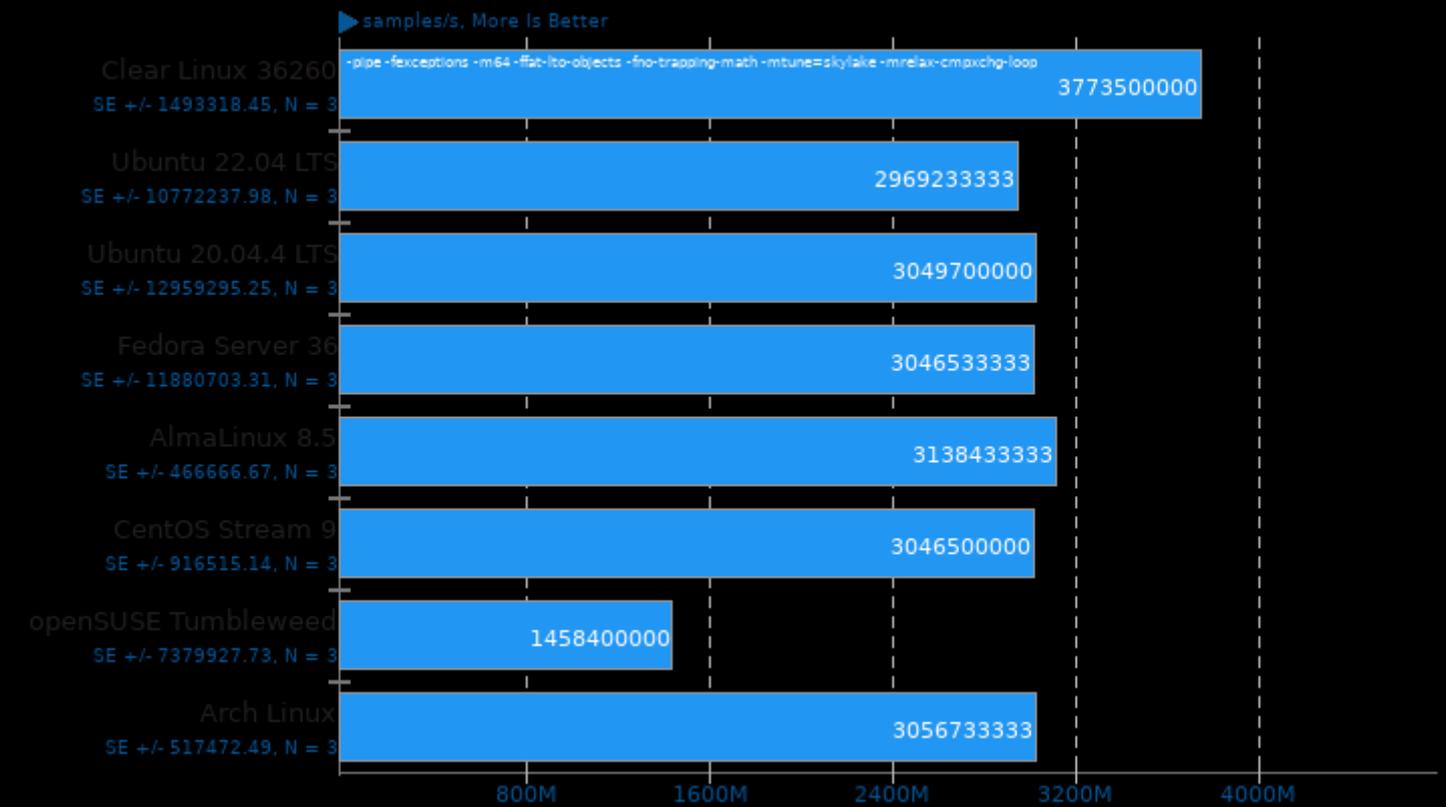






### Liquid-DSP 2021.01.31

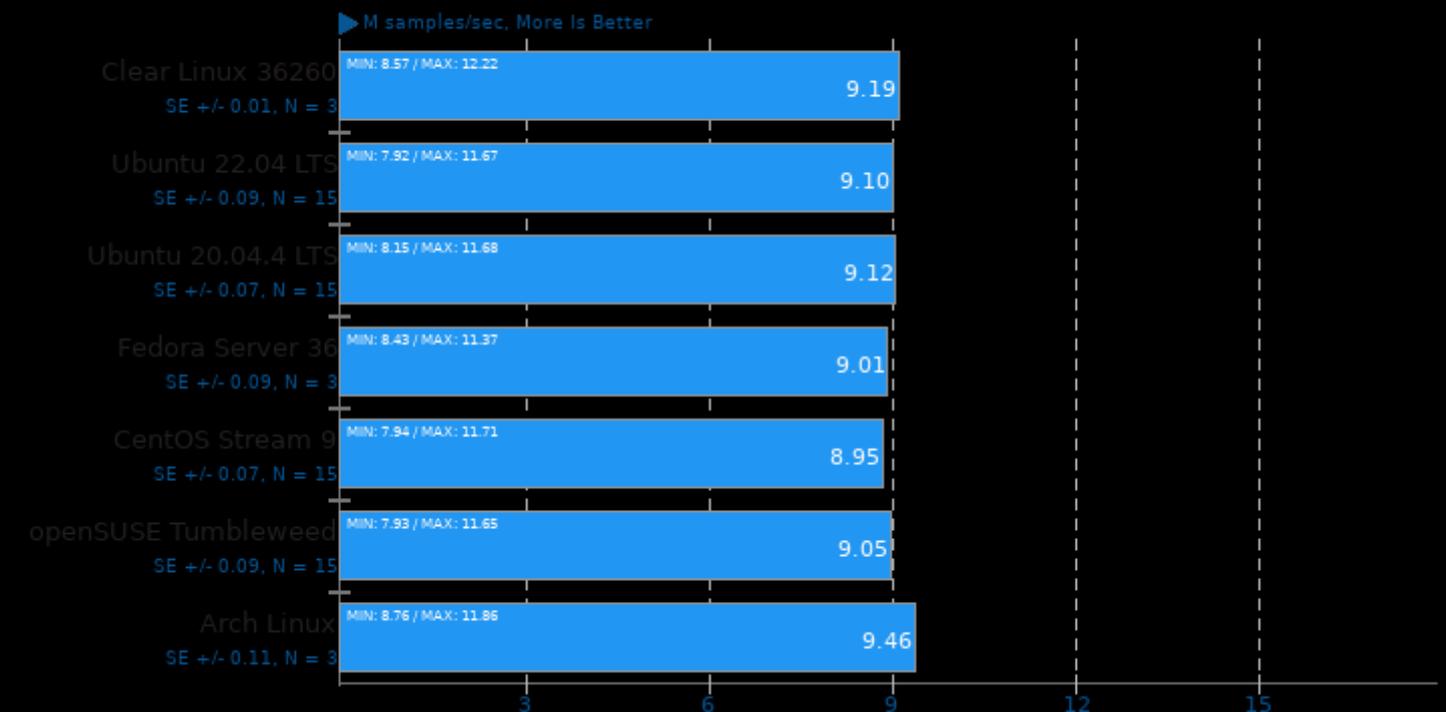
Threads: 160 - Buffer Length: 256 - Filter Length: 57



1. (C) gcc options: -O3 -pthread -lm -lc -lliquid

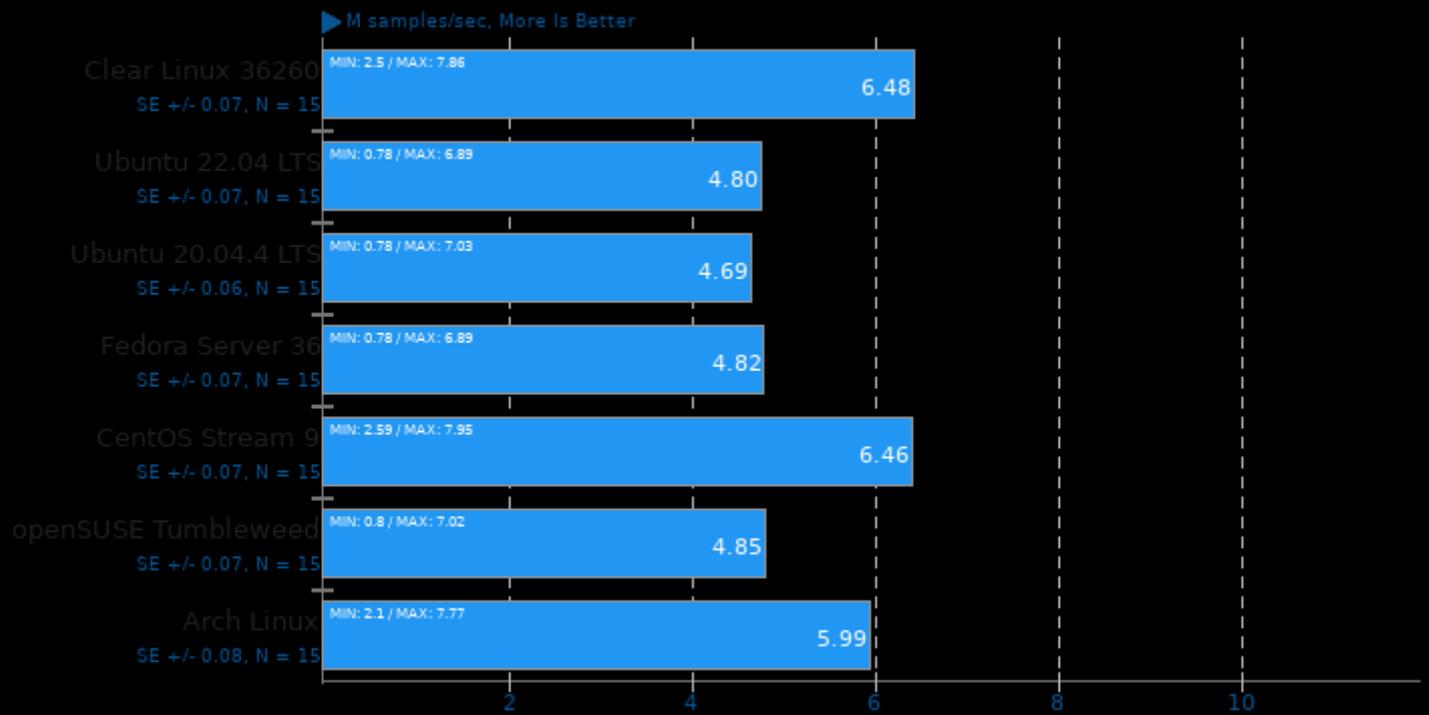
### LuxCoreRender 2.6

Scene: DLSC - Acceleration: CPU



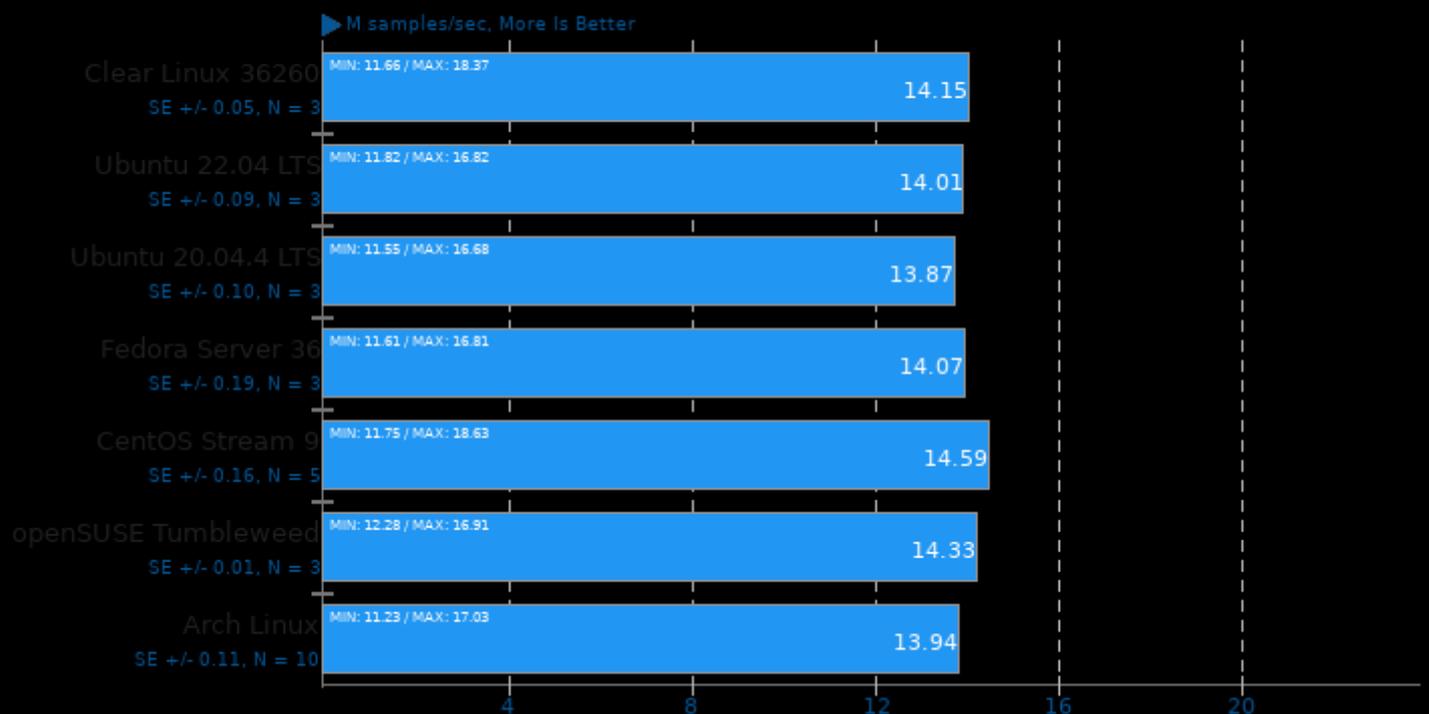
### LuxCoreRender 2.6

Scene: Danish Mood - Acceleration: CPU



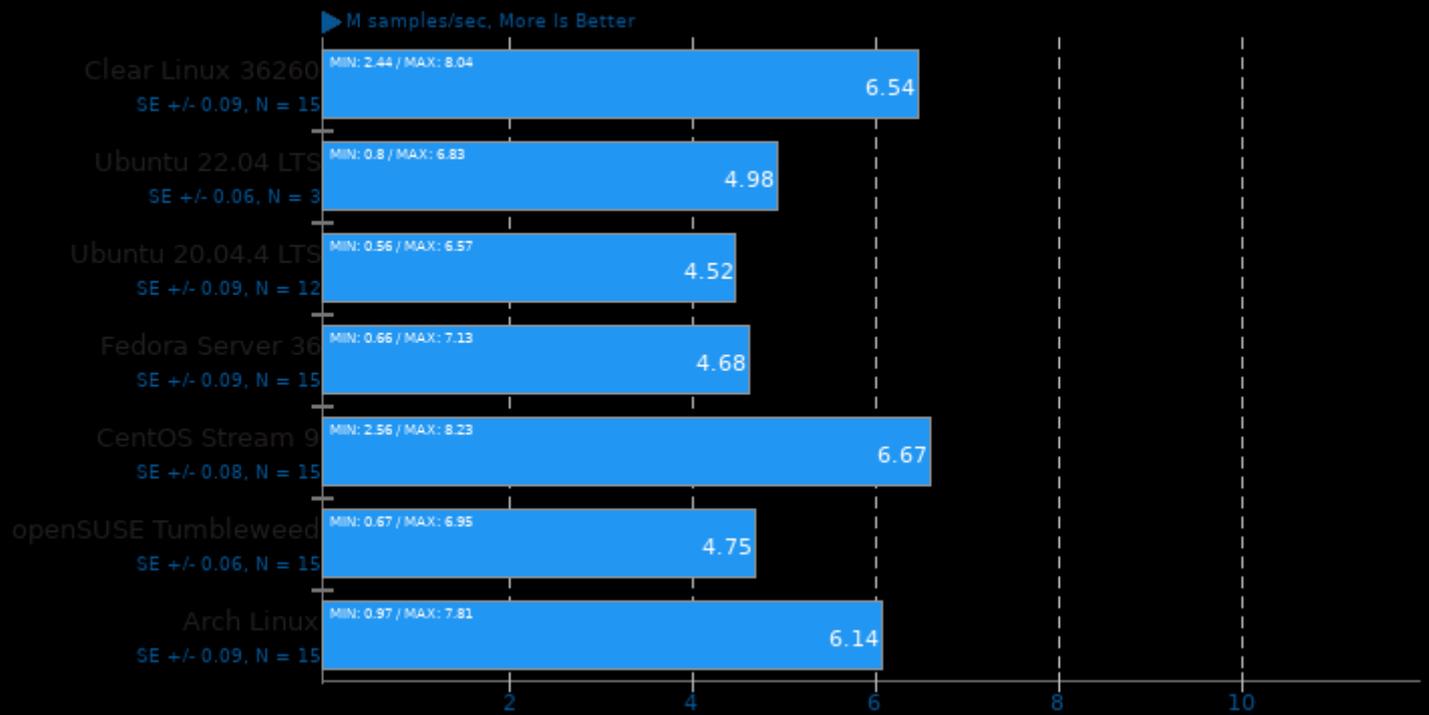
### LuxCoreRender 2.6

Scene: Orange Juice - Acceleration: CPU



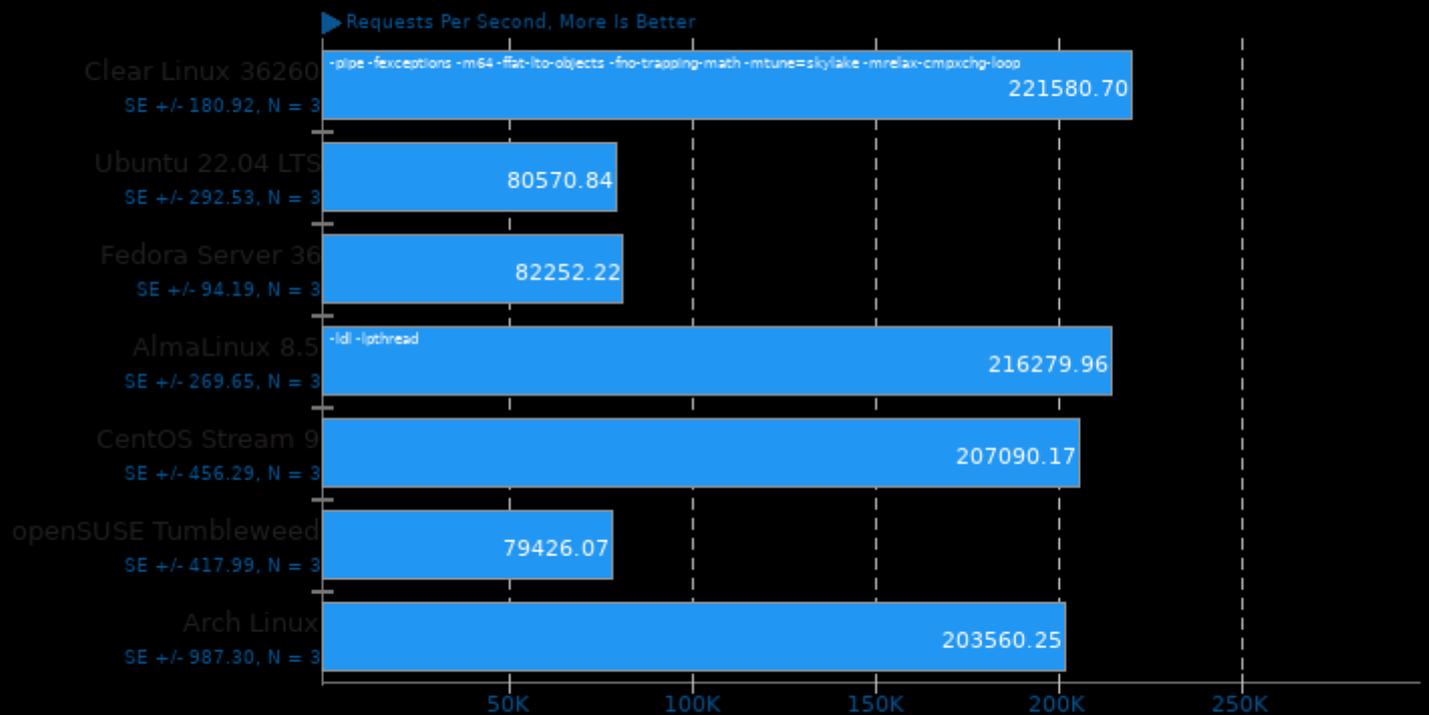
## LuxCoreRender 2.6

Scene: LuxCore Benchmark - Acceleration: CPU



## nginx 1.21.1

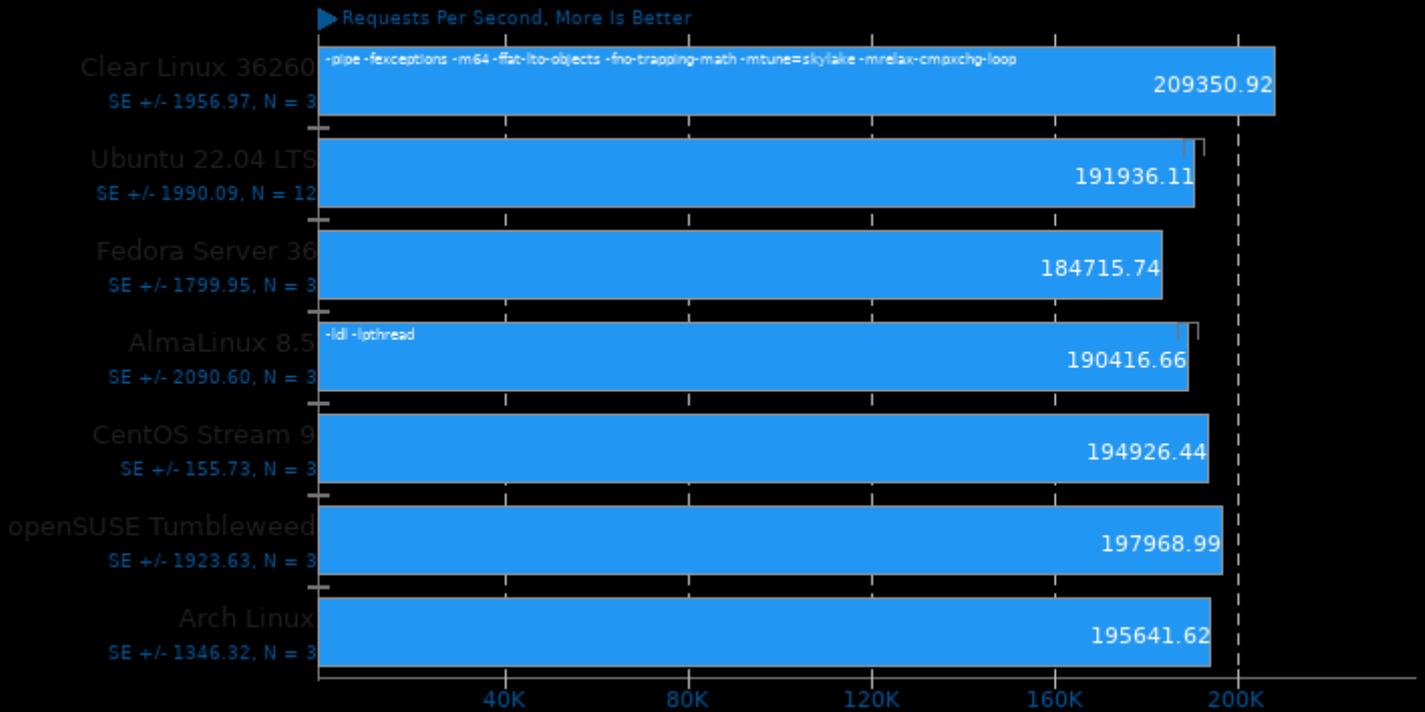
Concurrent Requests: 100



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

### nginx 1.21.1

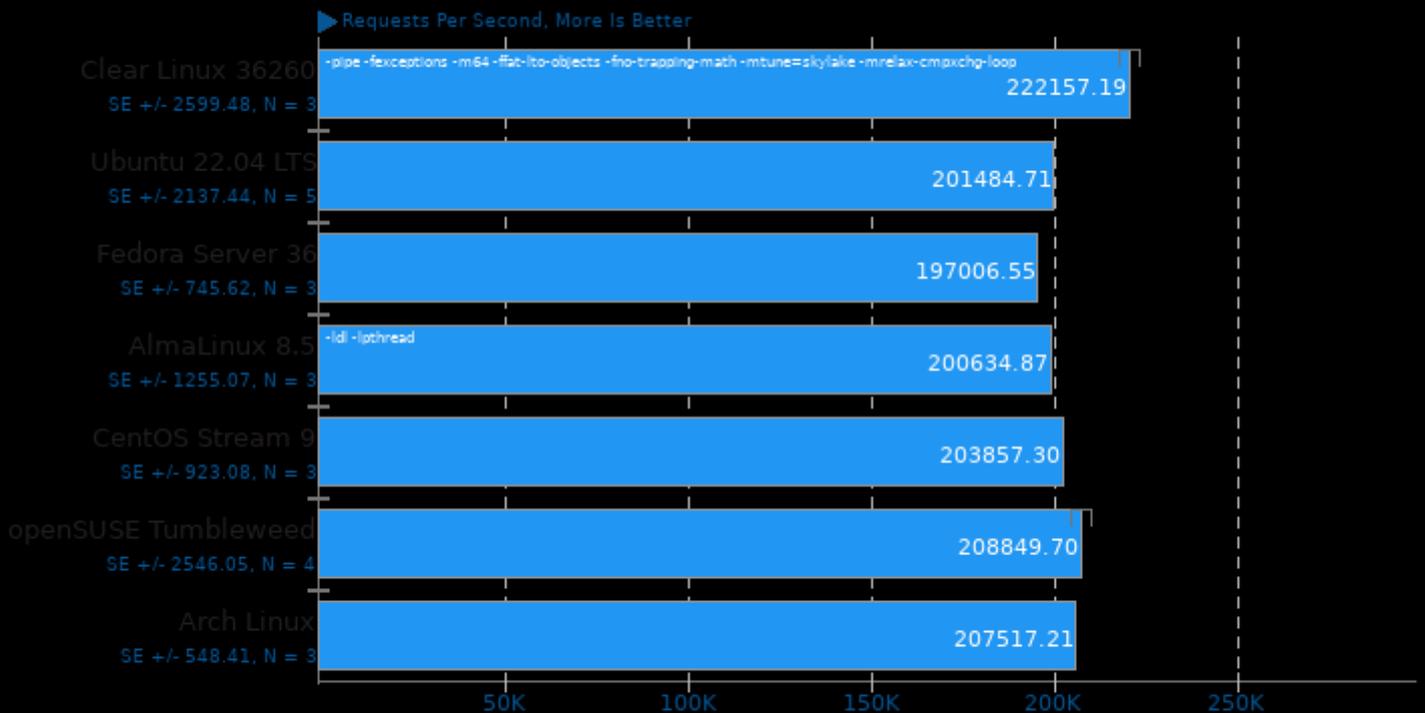
Concurrent Requests: 200



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

### nginx 1.21.1

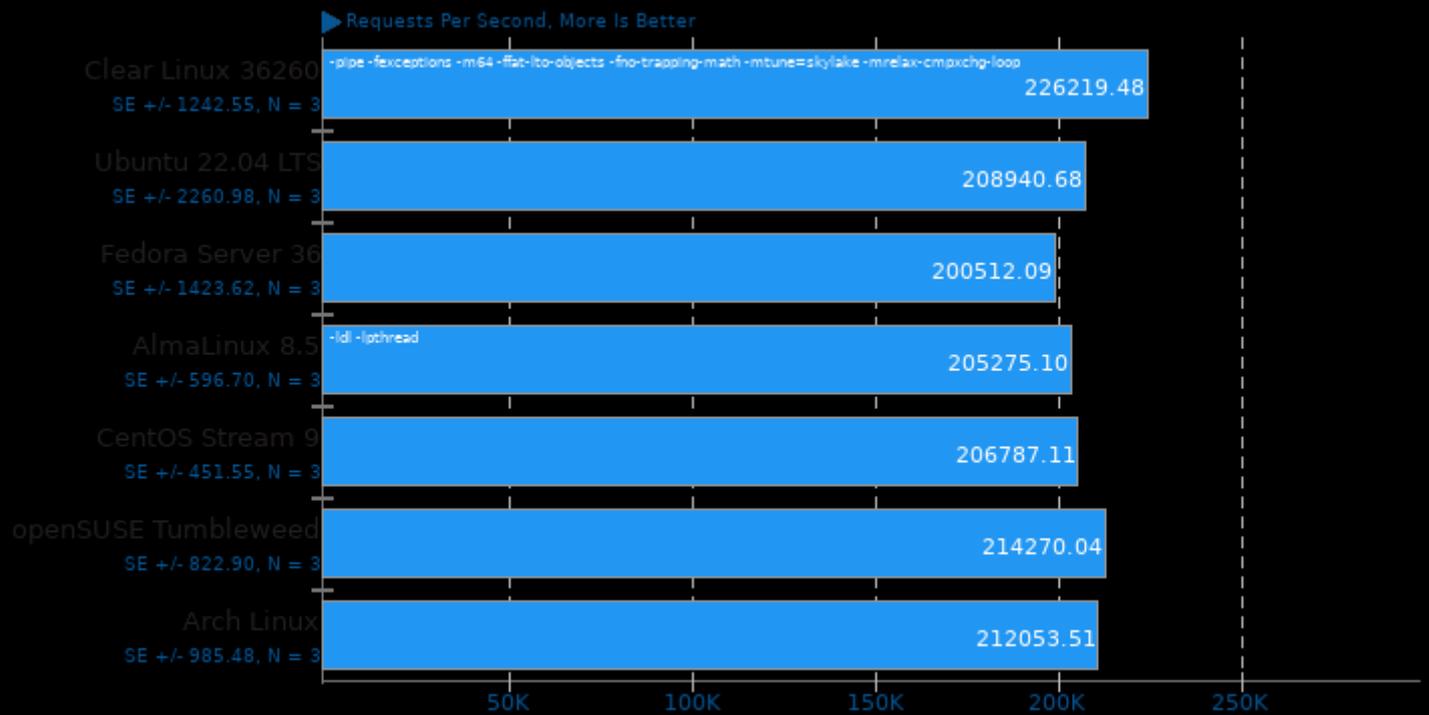
Concurrent Requests: 500



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

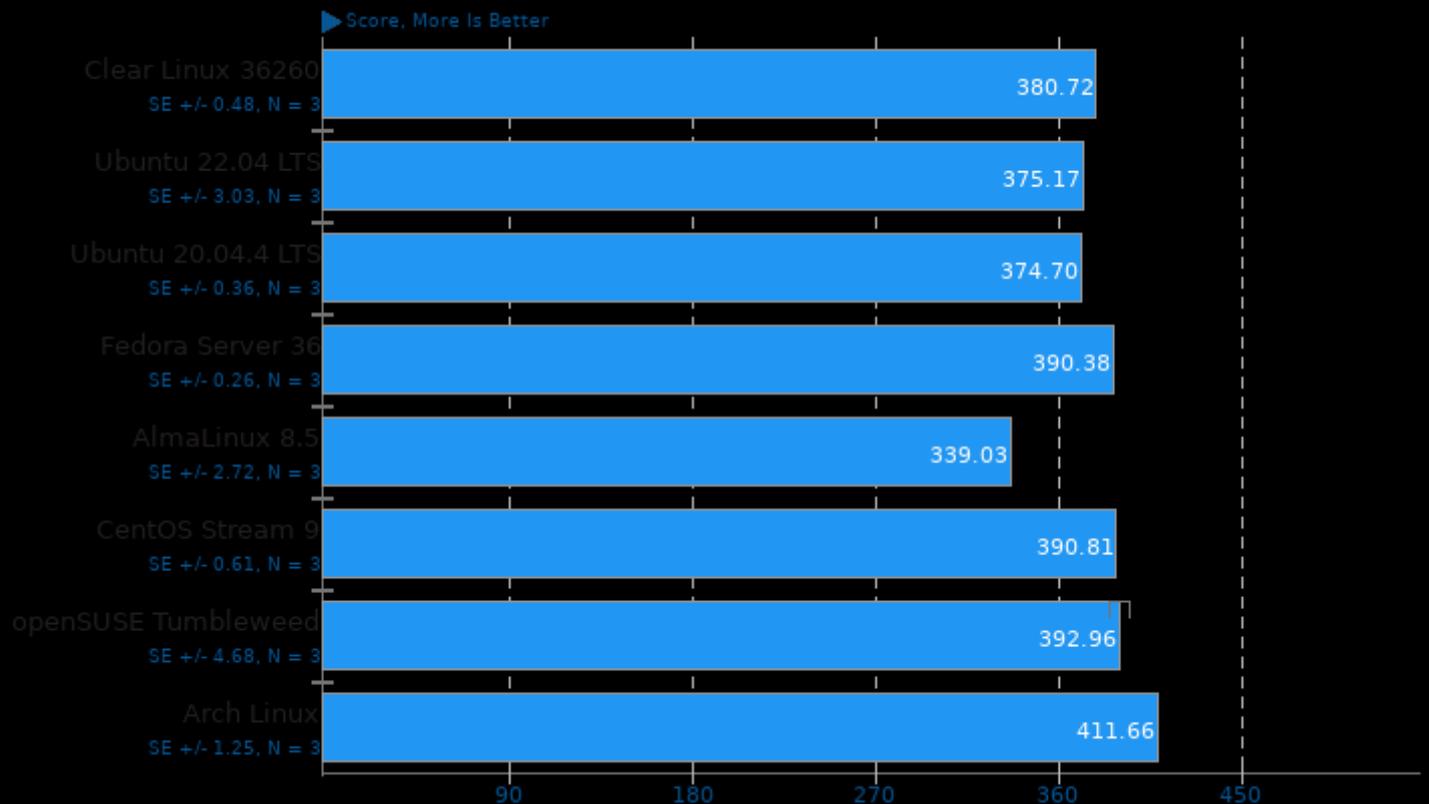
## nginx 1.21.1

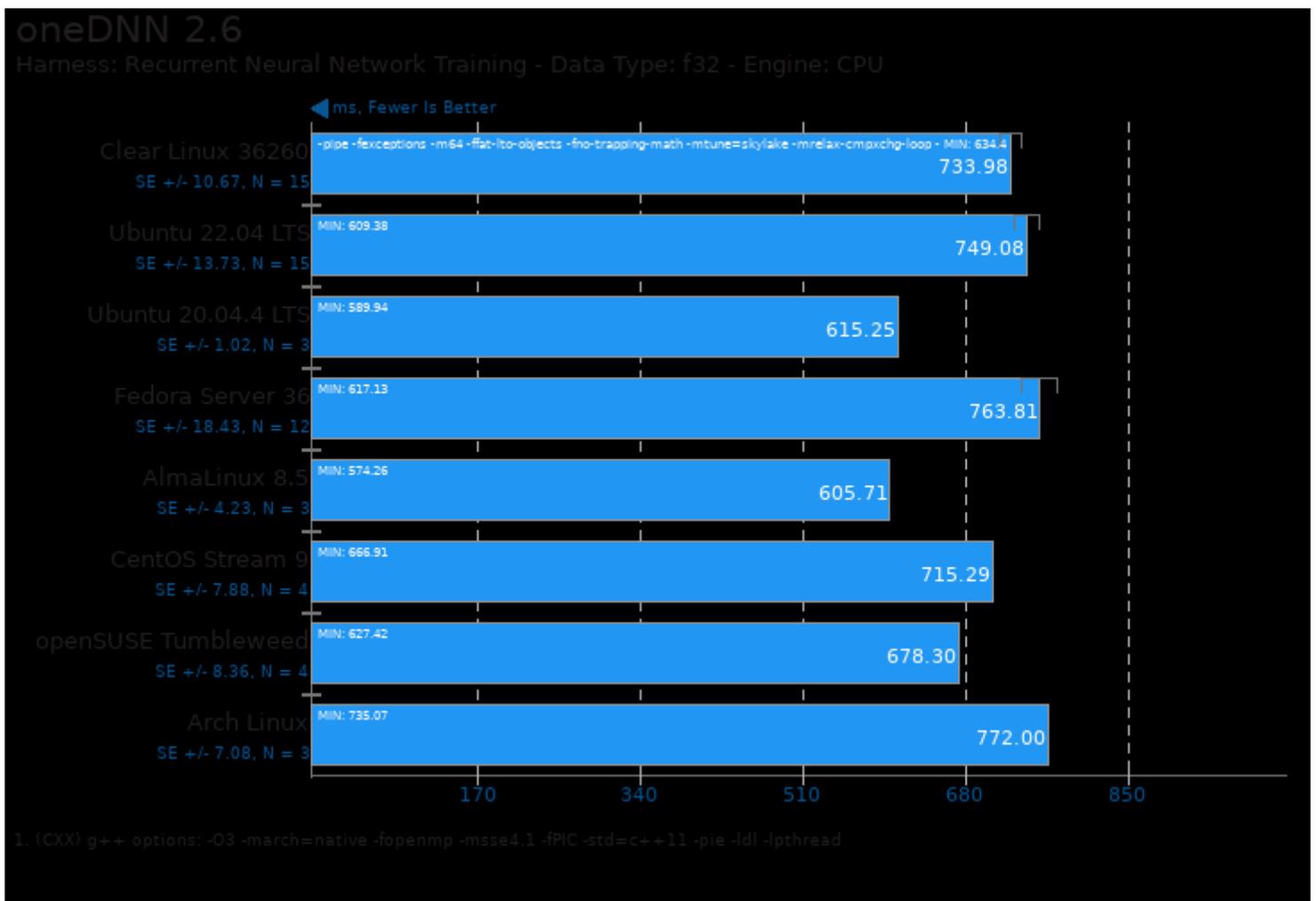
Concurrent Requests: 1000

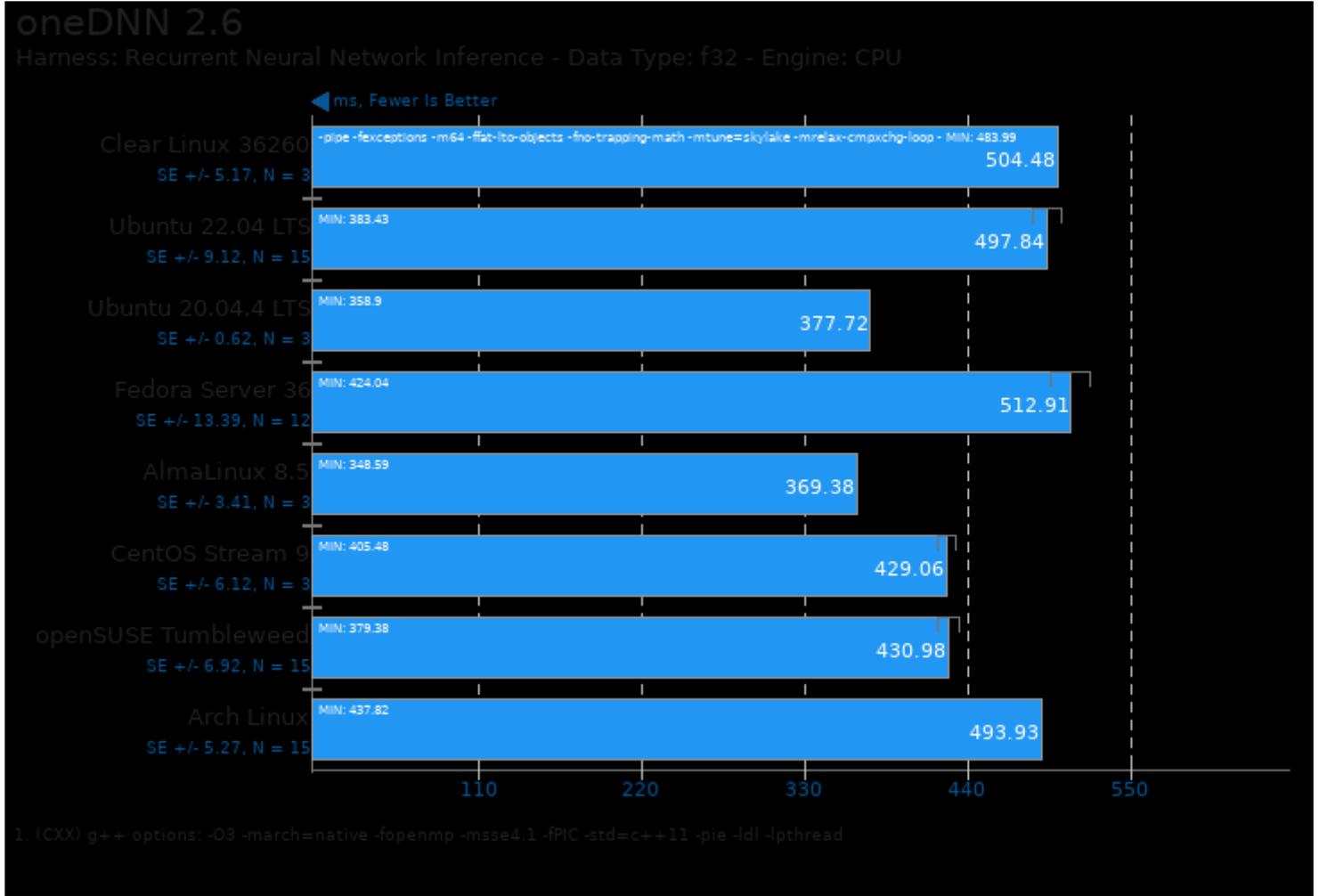


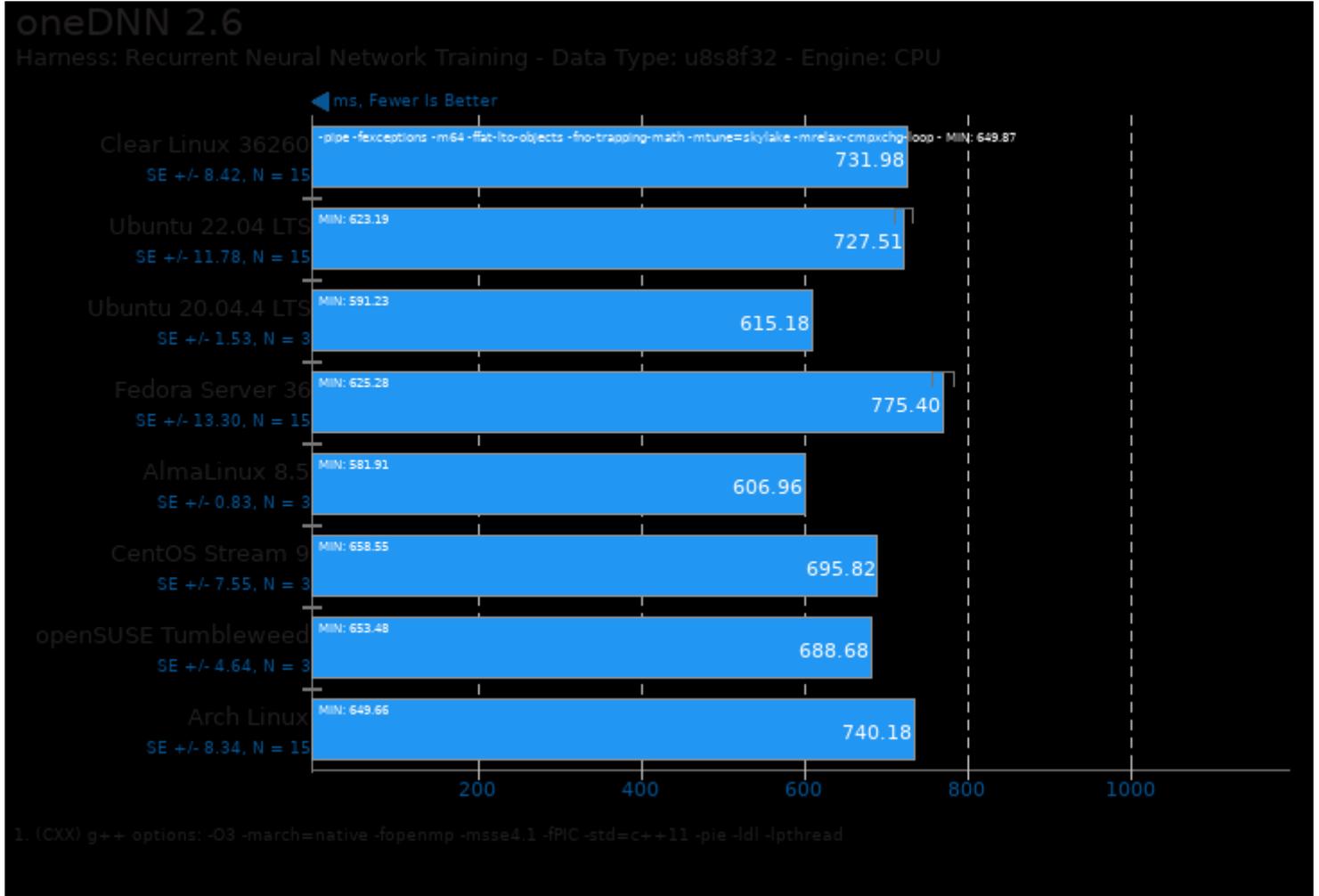
1. (CC) gcc options: -jcrypt -lz -O3 -march=native

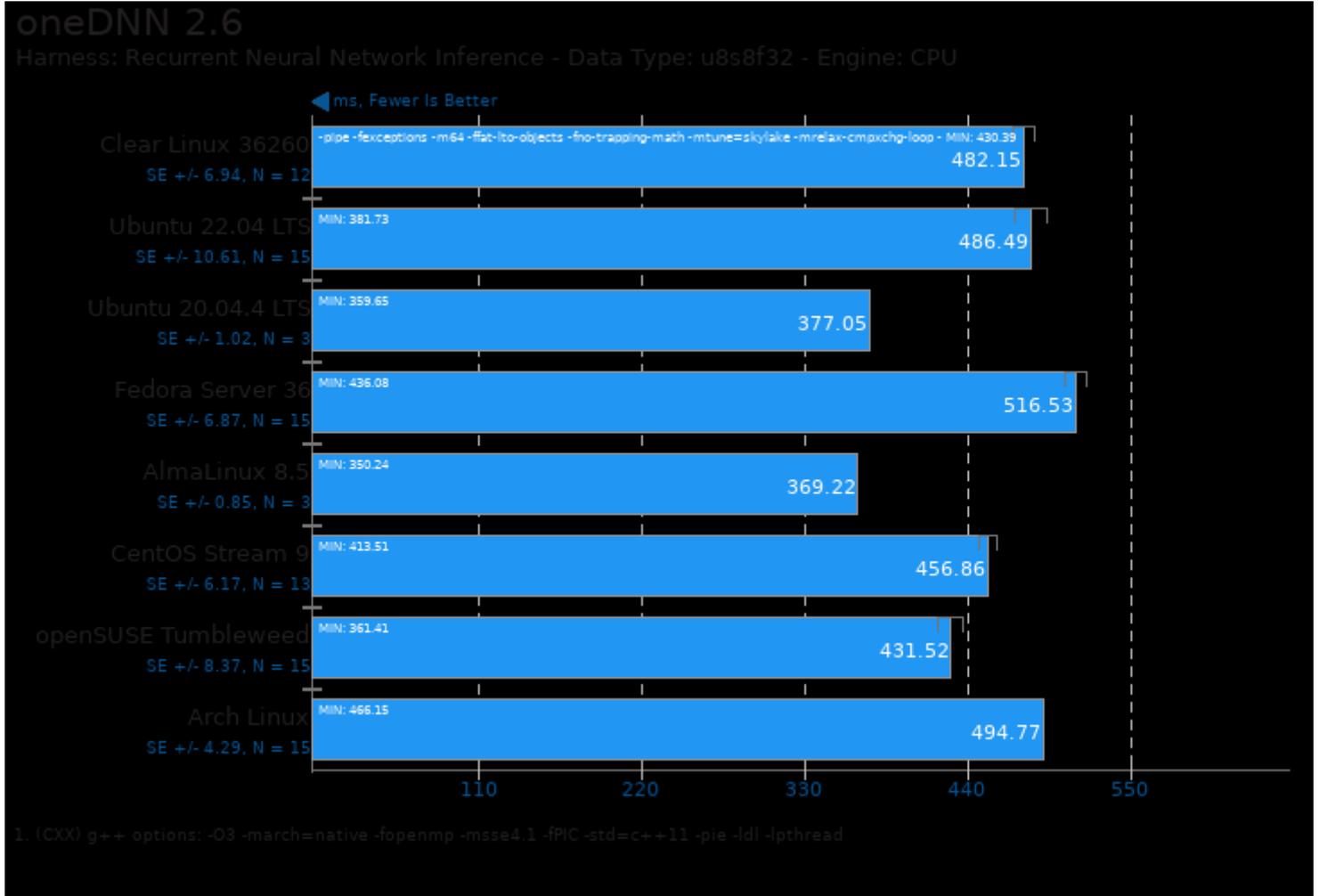
## Numpy Benchmark

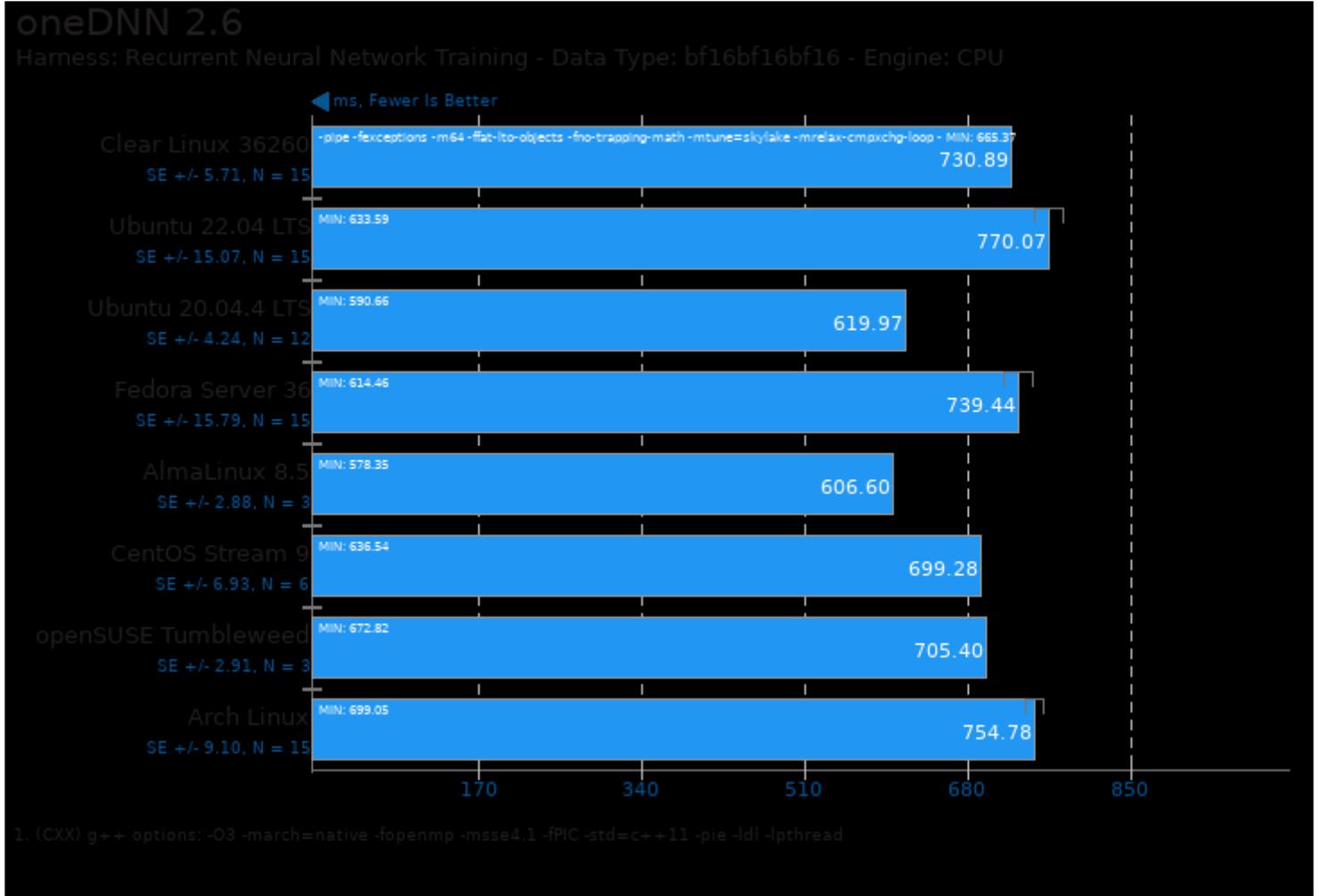


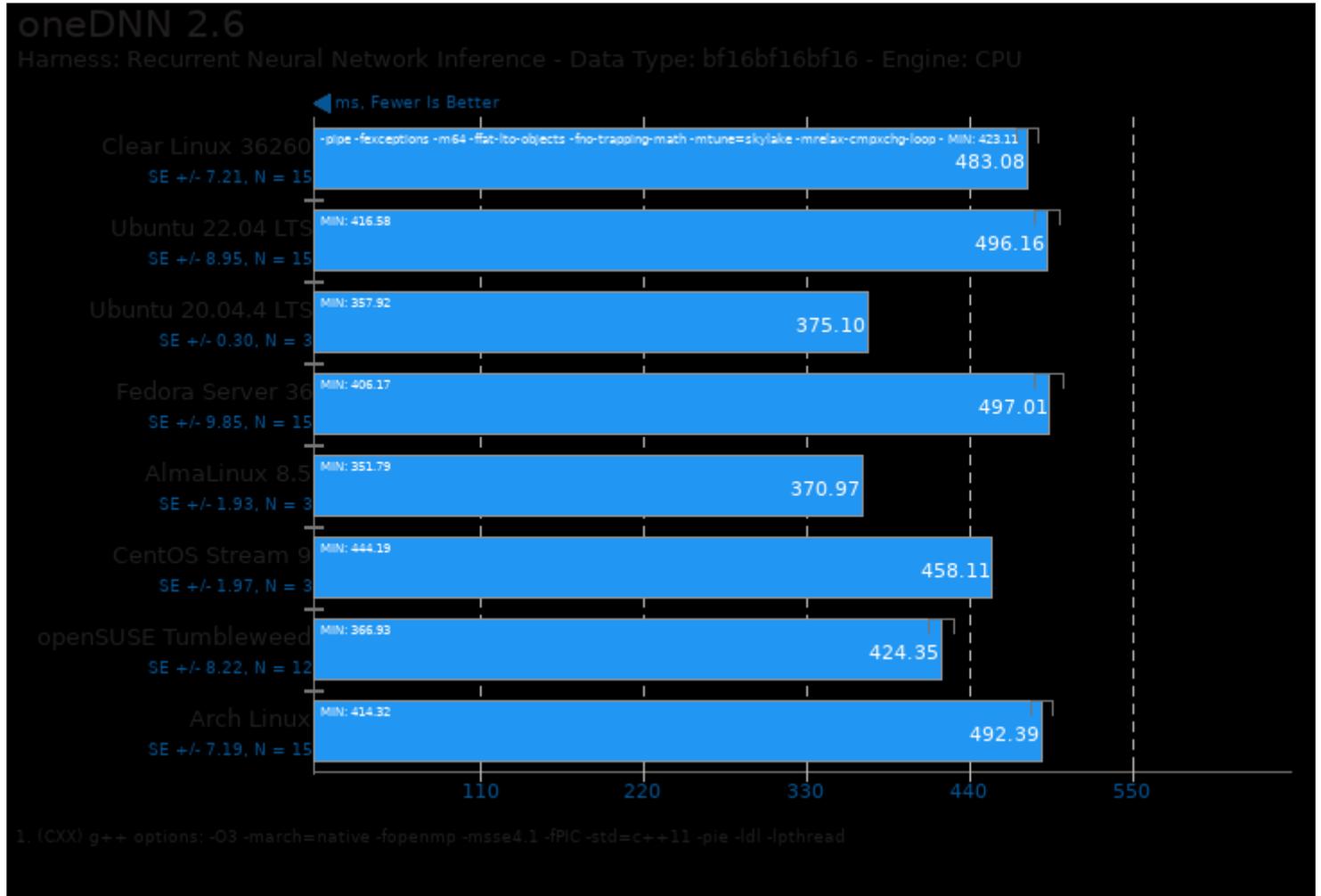






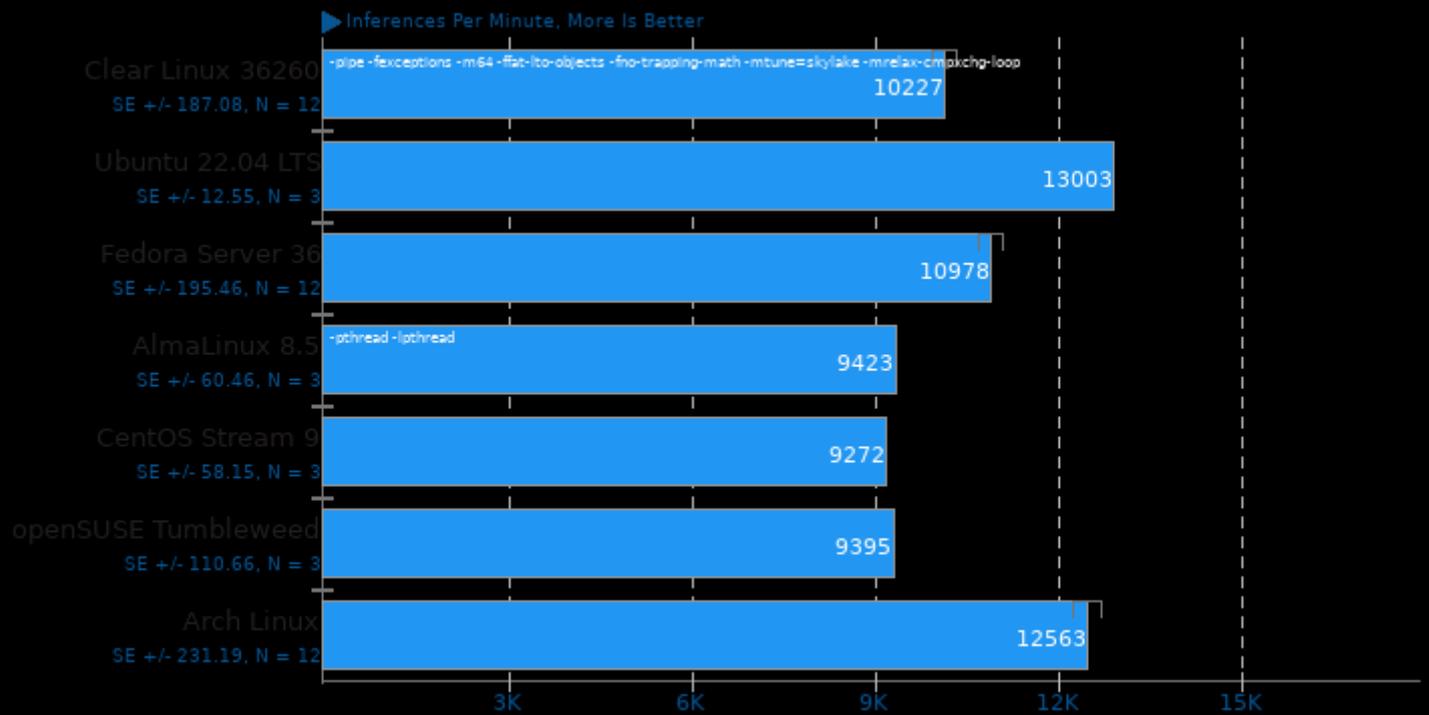






## ONNX Runtime 1.11

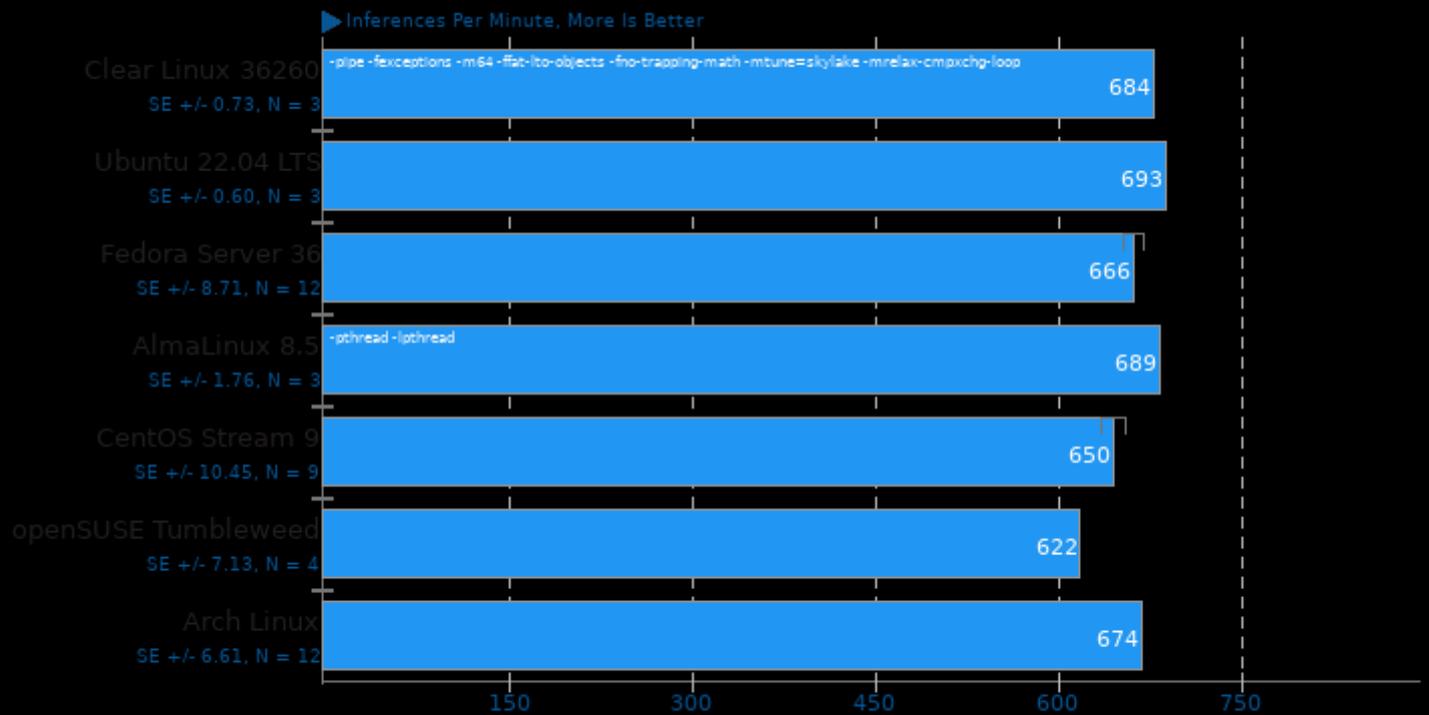
Model: GPT-2 - Device: CPU - Executor: Standard



1. (CXX) g++ options: -O3 -ffunction-sections -fdata-sections -march=native -mtune=native -flto -fno-fat-lto-objects -ldl -lrt

## ONNX Runtime 1.11

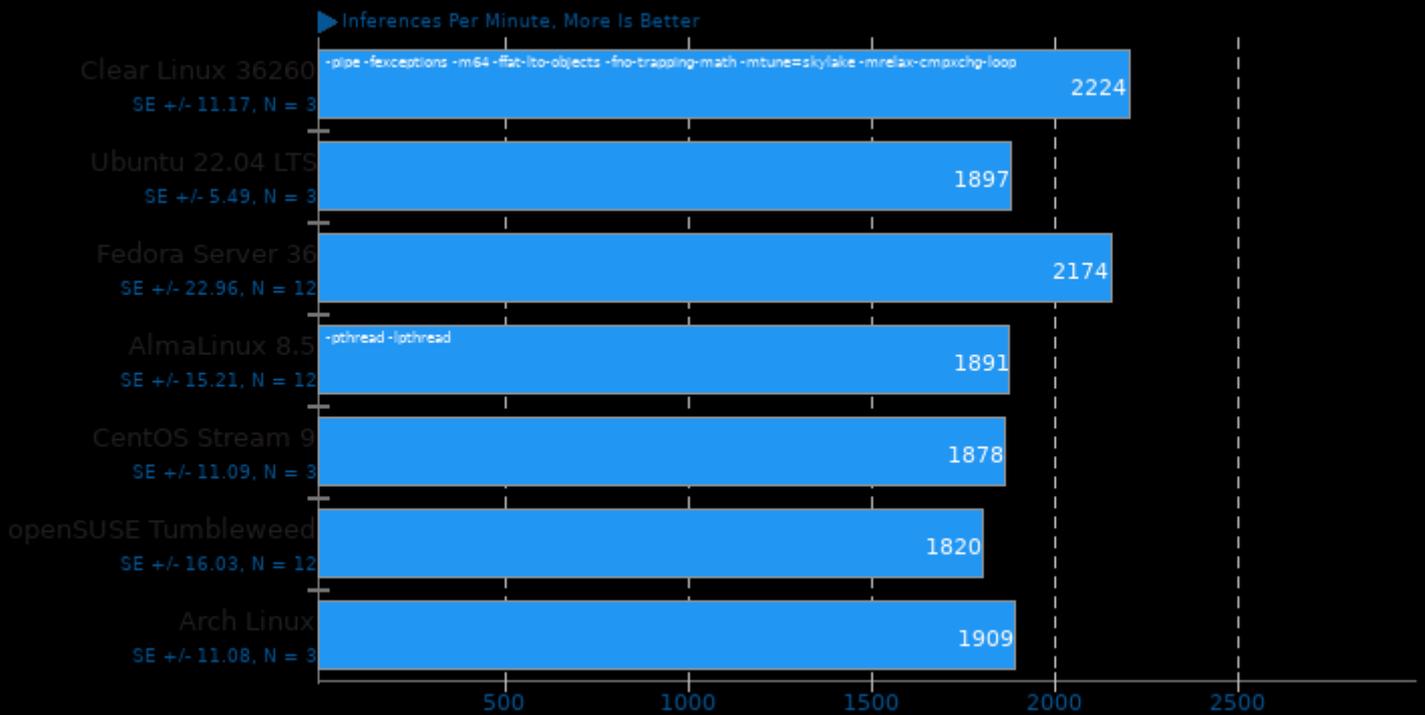
Model: yolov4 - Device: CPU - Executor: Standard



1. (CXX) g++ options: -O3 -ffunction-sections -fdata-sections -march=native -mtune=native -flto -fno-fat-lto-objects -ldl -lrt

## ONNX Runtime 1.11

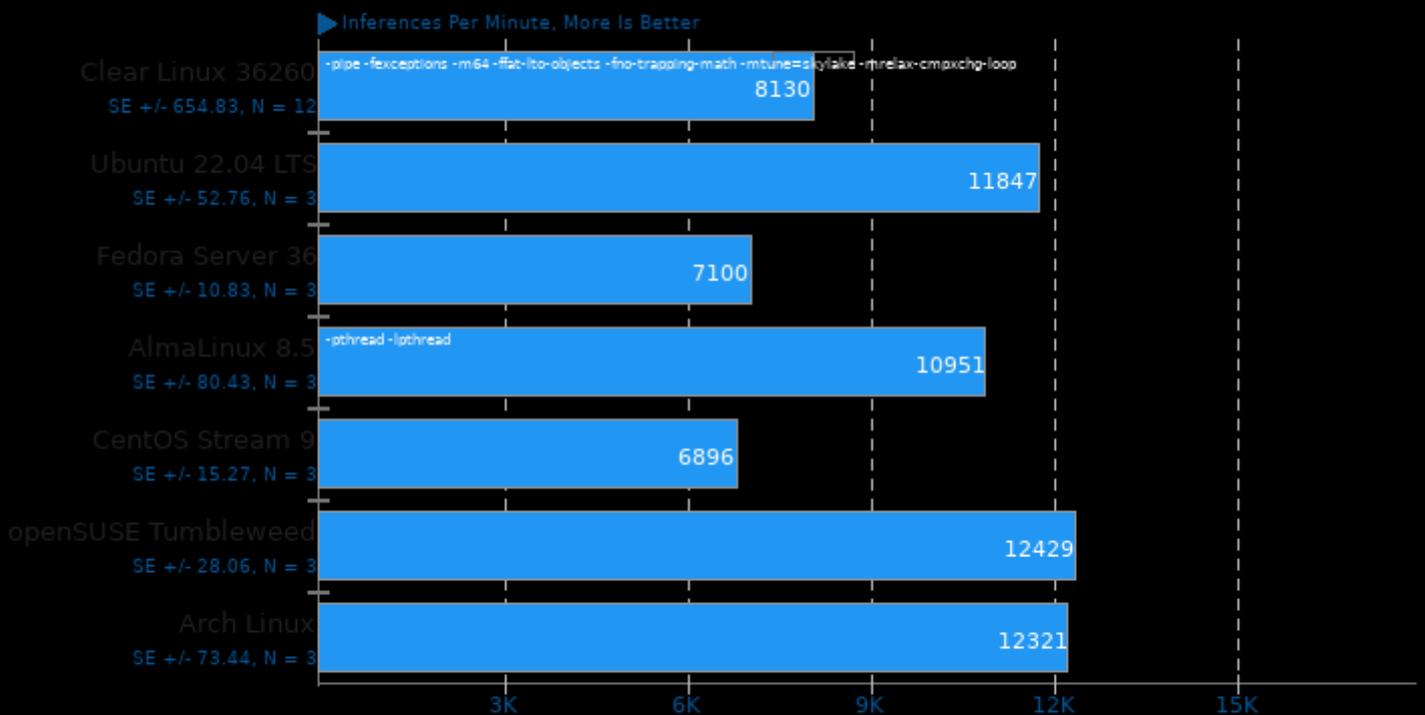
Model: ArcFace ResNet-100 - Device: CPU - Executor: Standard



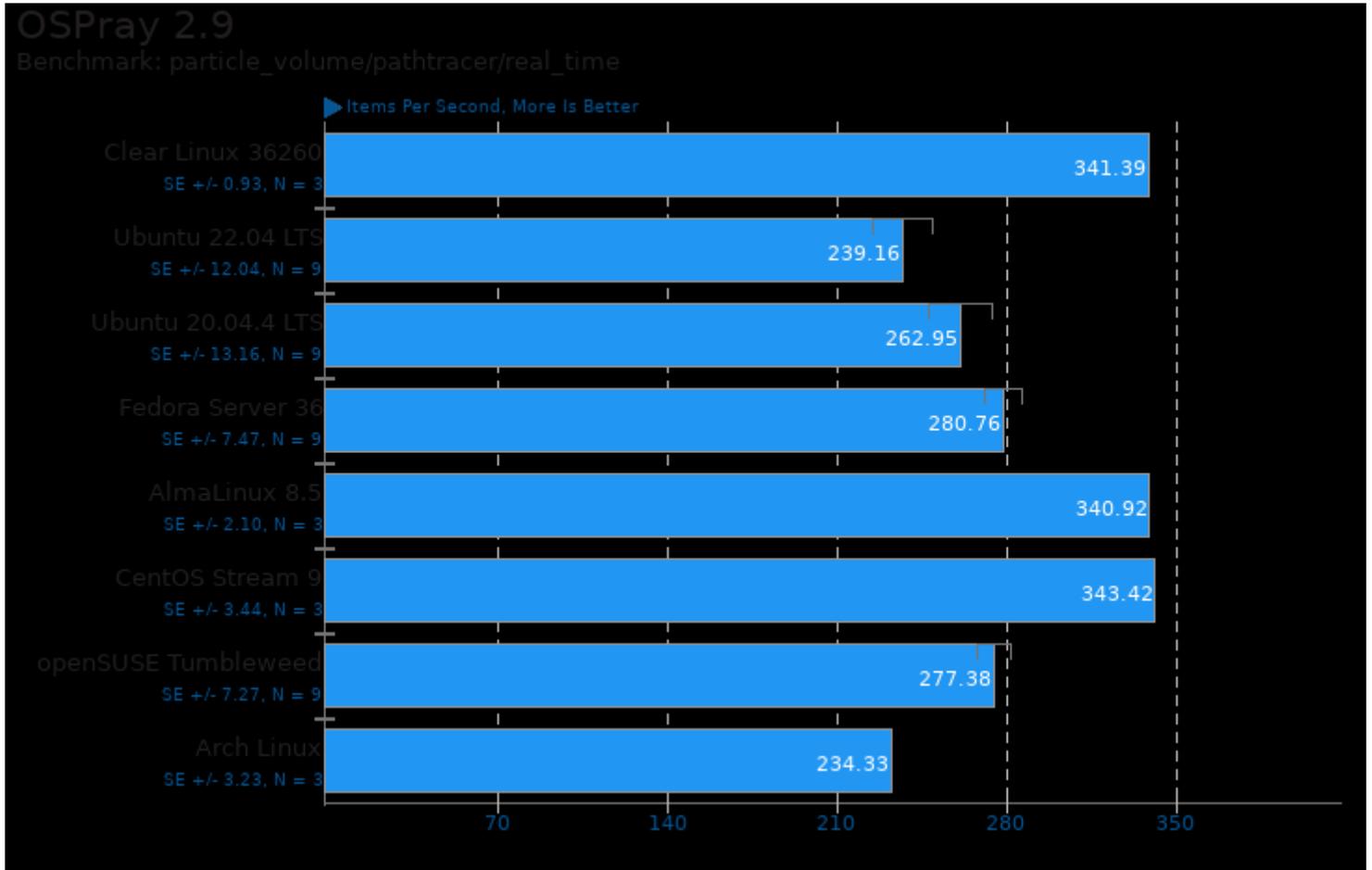
1. (CXX) g++ options: -O3 -ffunction-sections -fdata-sections -march=native -mtune=native -flto -fno-fat-lto-objects -ldl -lrt

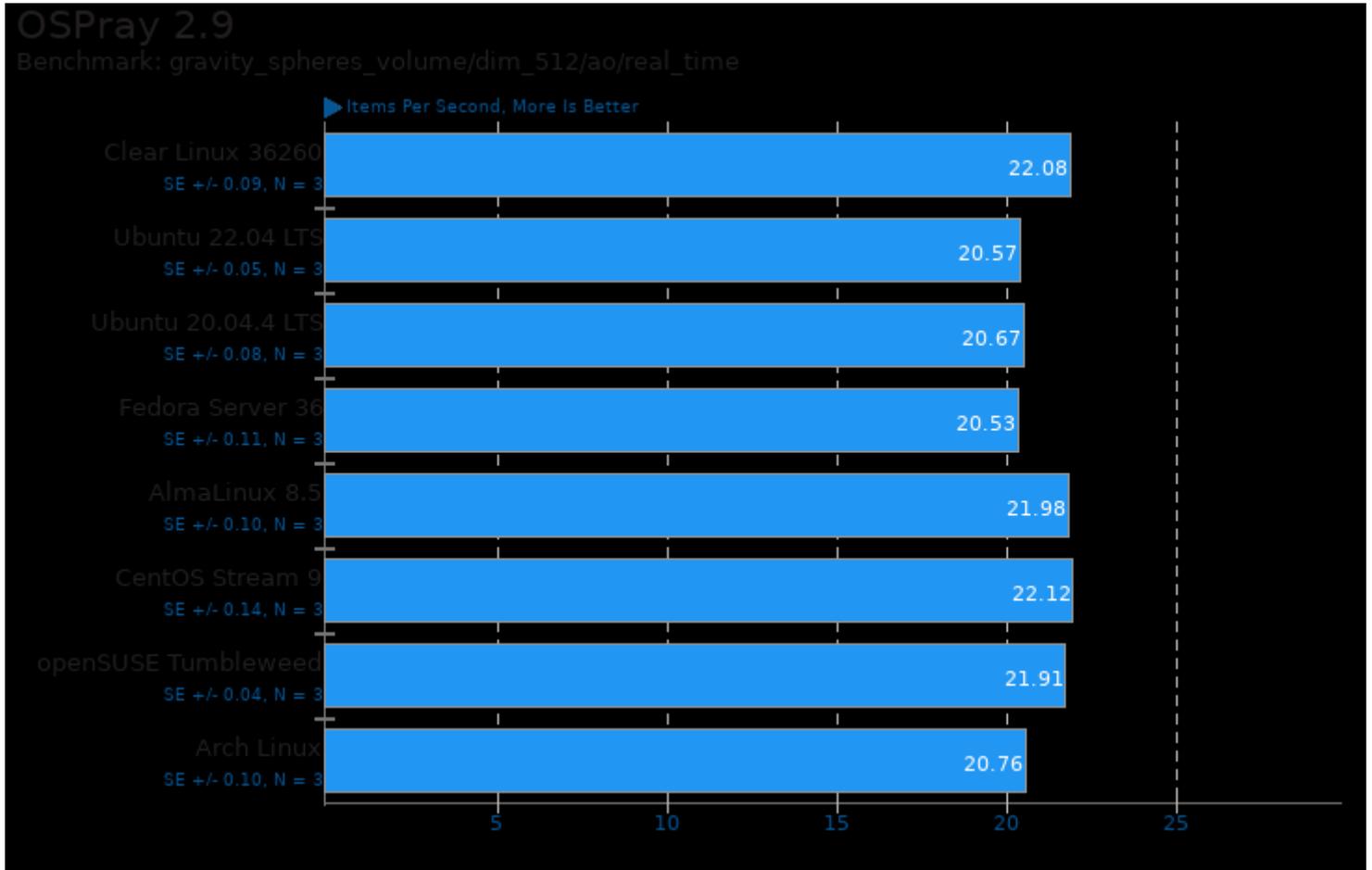
## ONNX Runtime 1.11

Model: super-resolution-10 - Device: CPU - Executor: Standard



1. (CXX) g++ options: -O3 -ffunction-sections -fdata-sections -march=native -mtune=native -flto -fno-fat-lto-objects -ldl -lrt

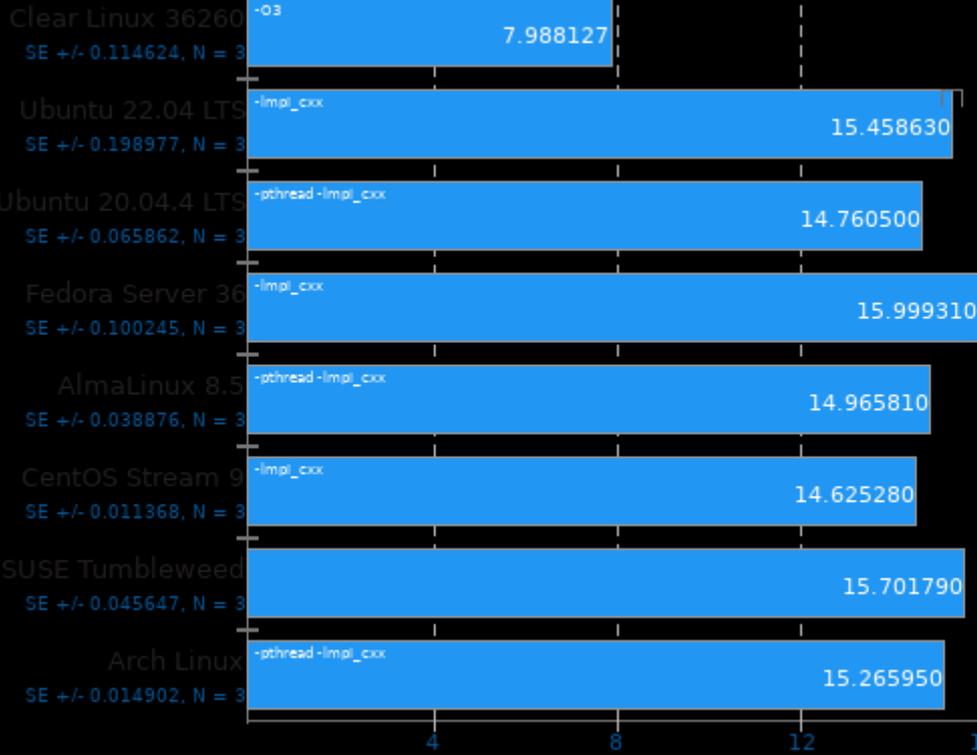




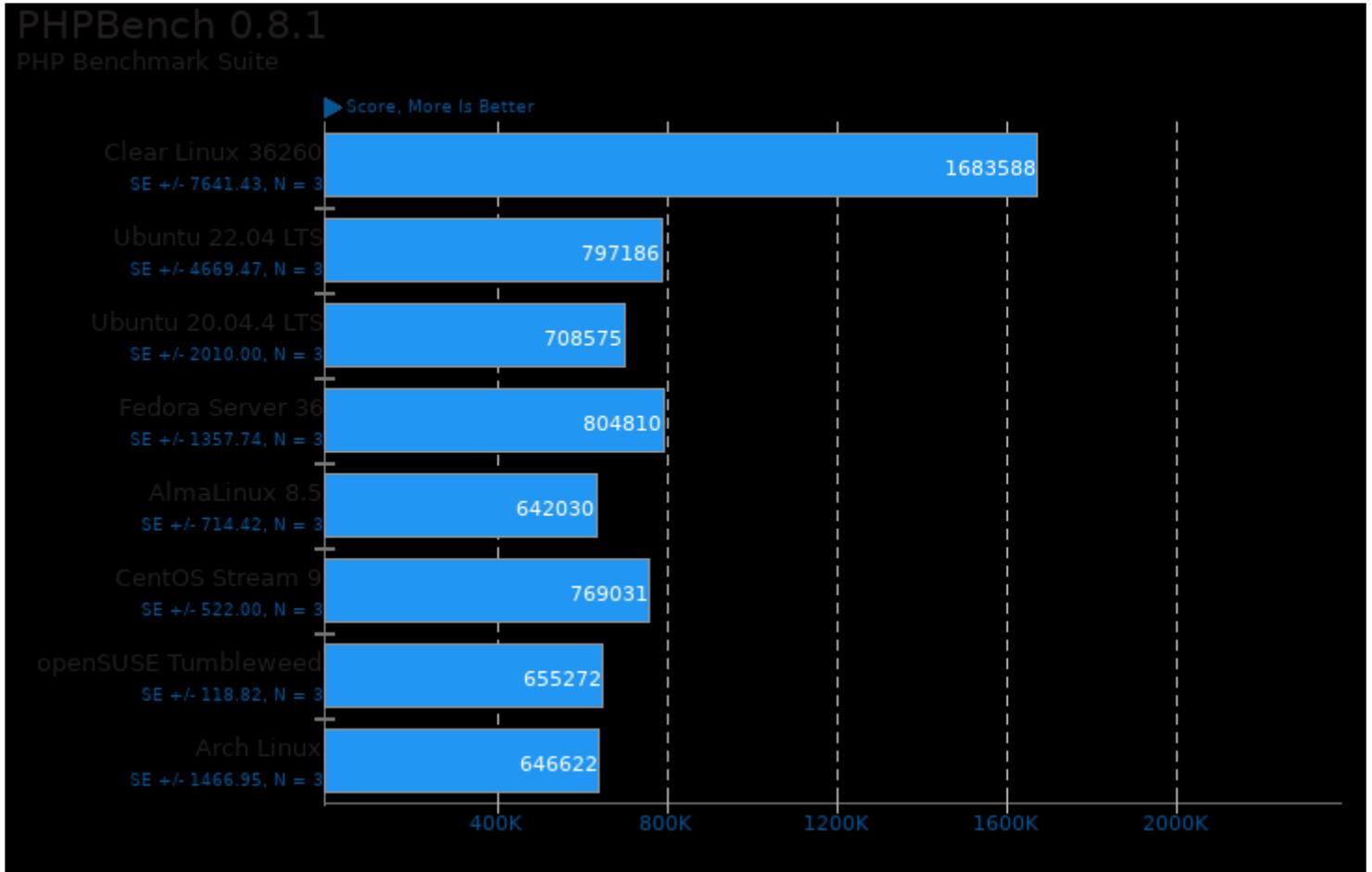
Pennant 1.0.1

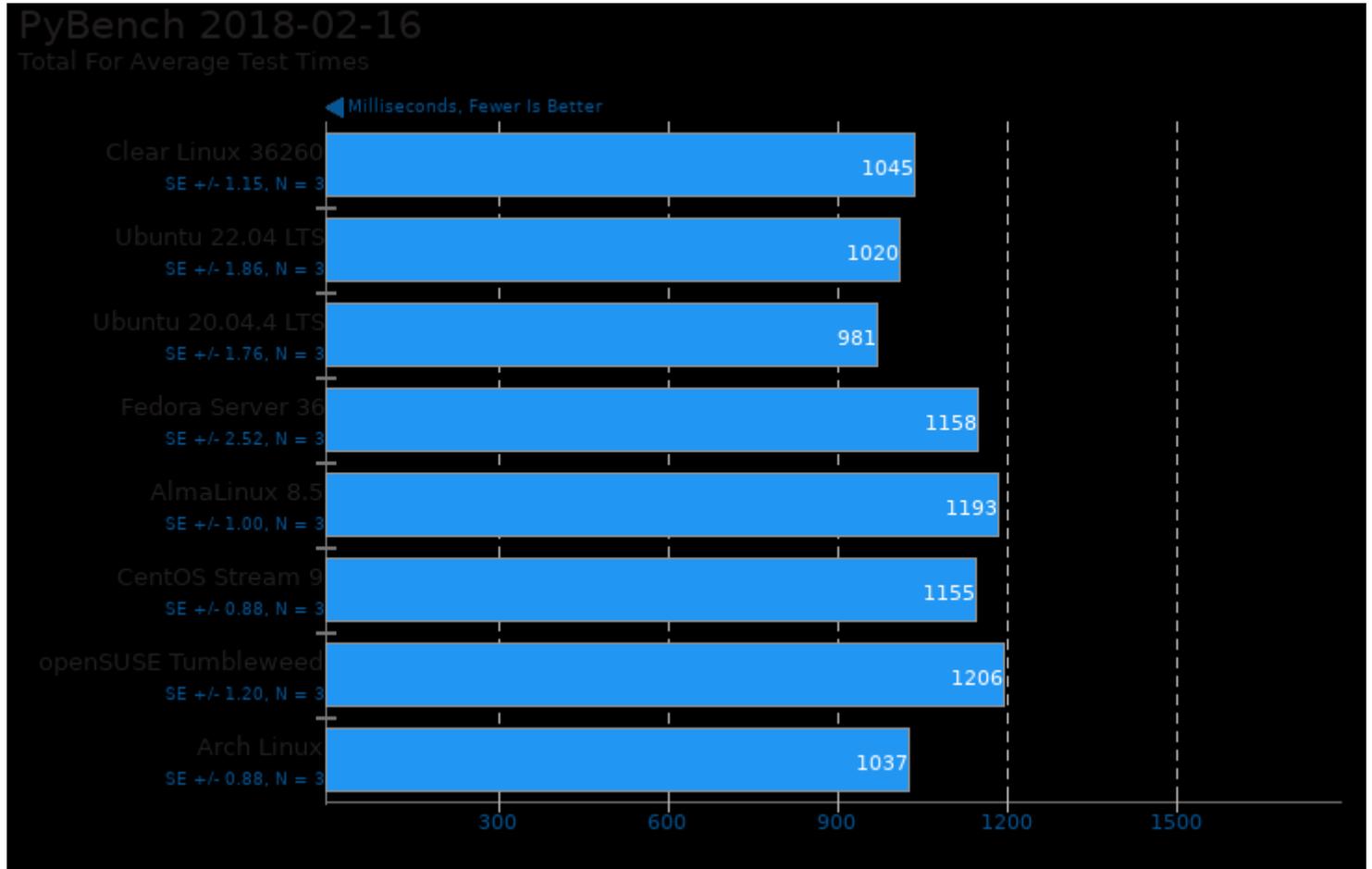
Test: sedovbig

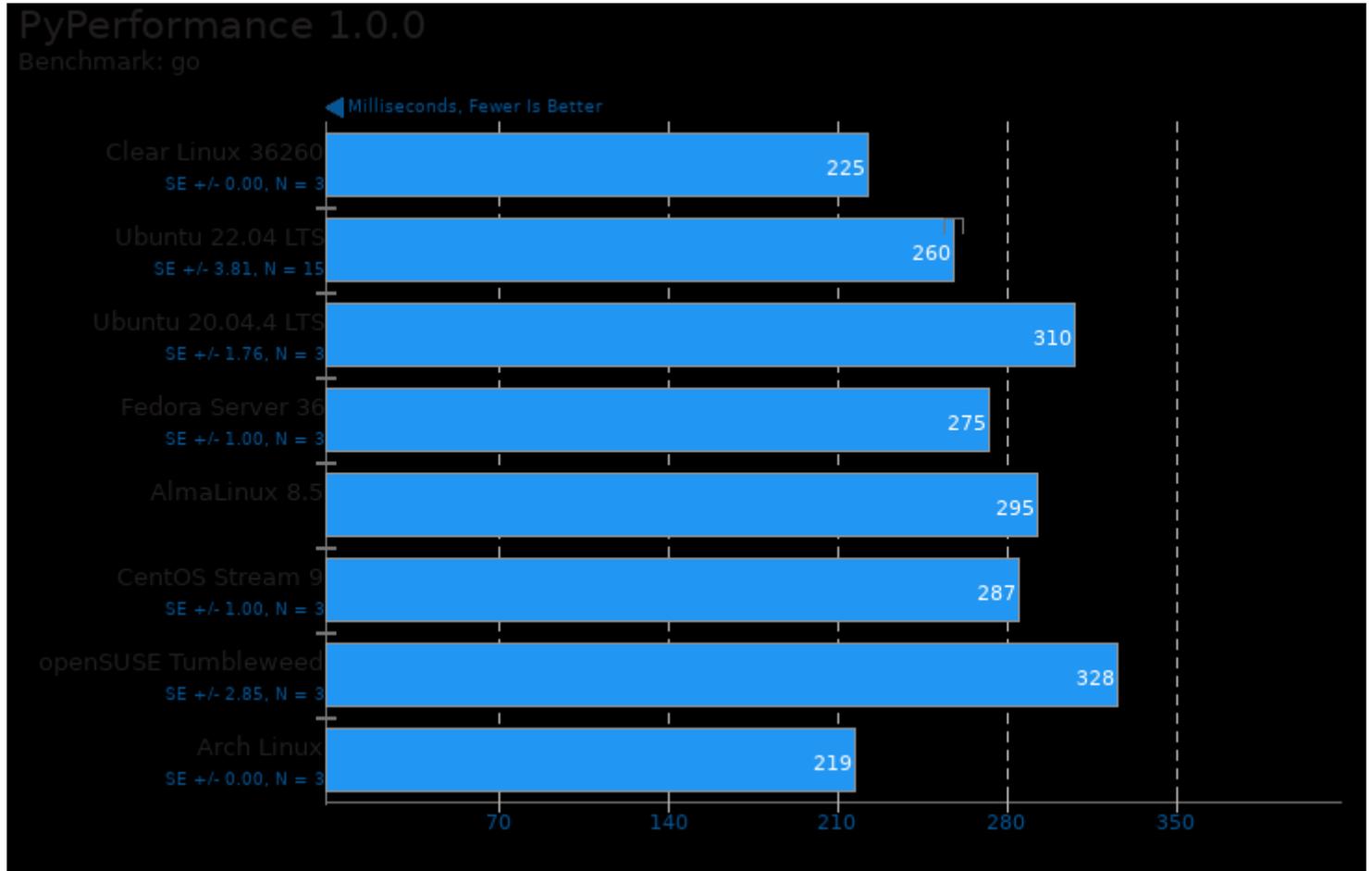
Hydro Cycle Time - Seconds, Fewer Is Better

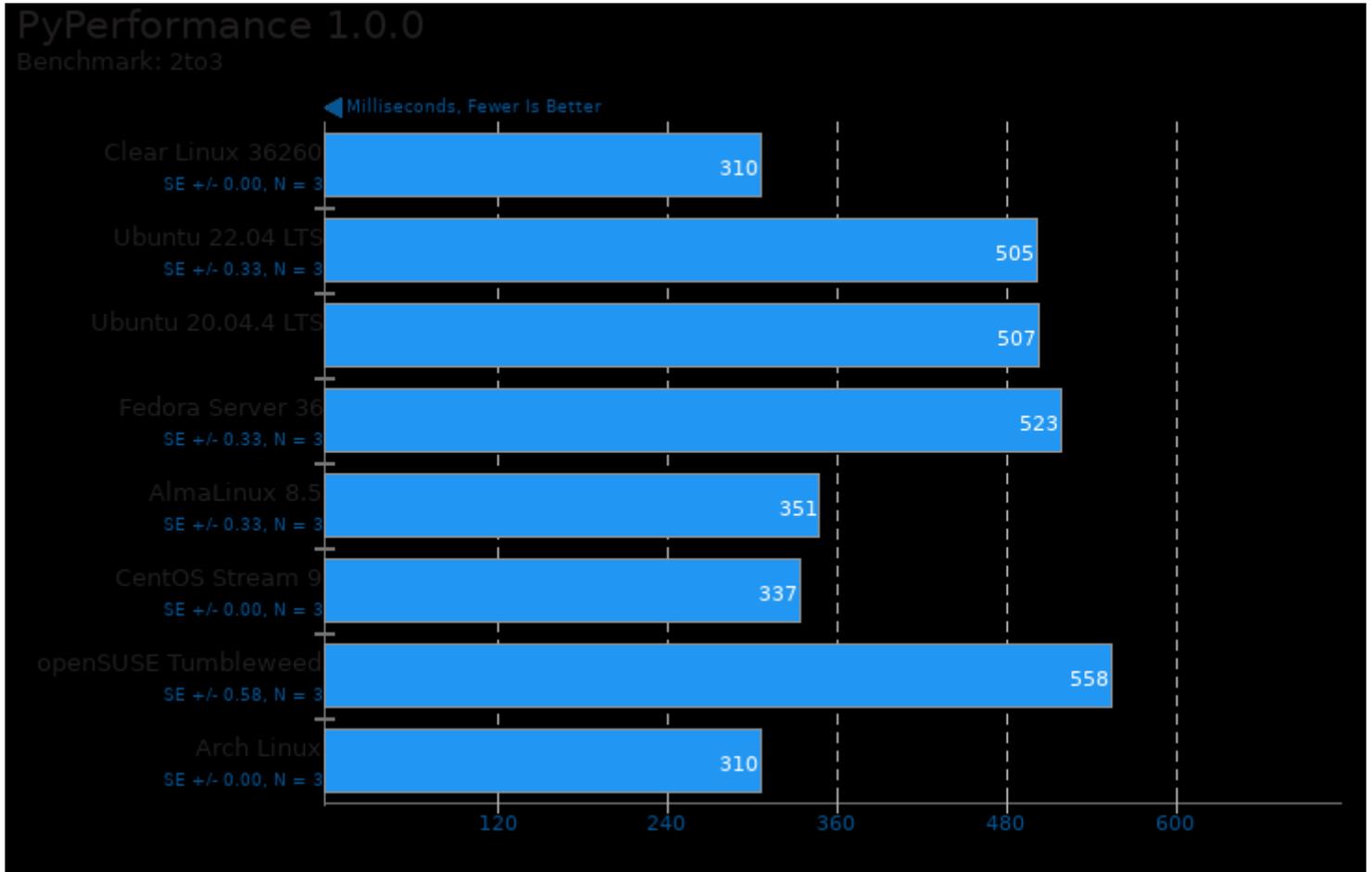


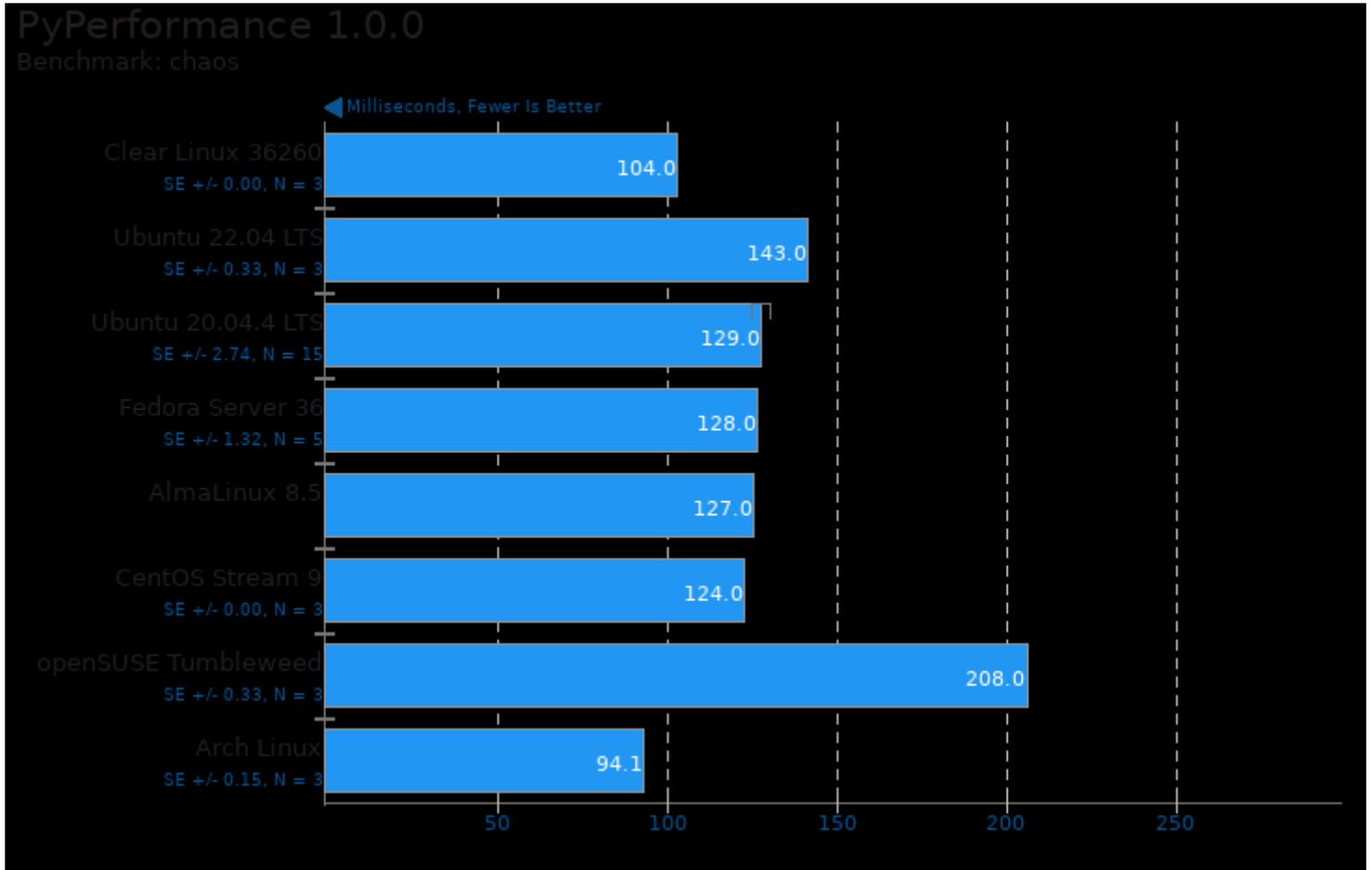
1. (CXX) g++ options: -fopenmp -lmpi

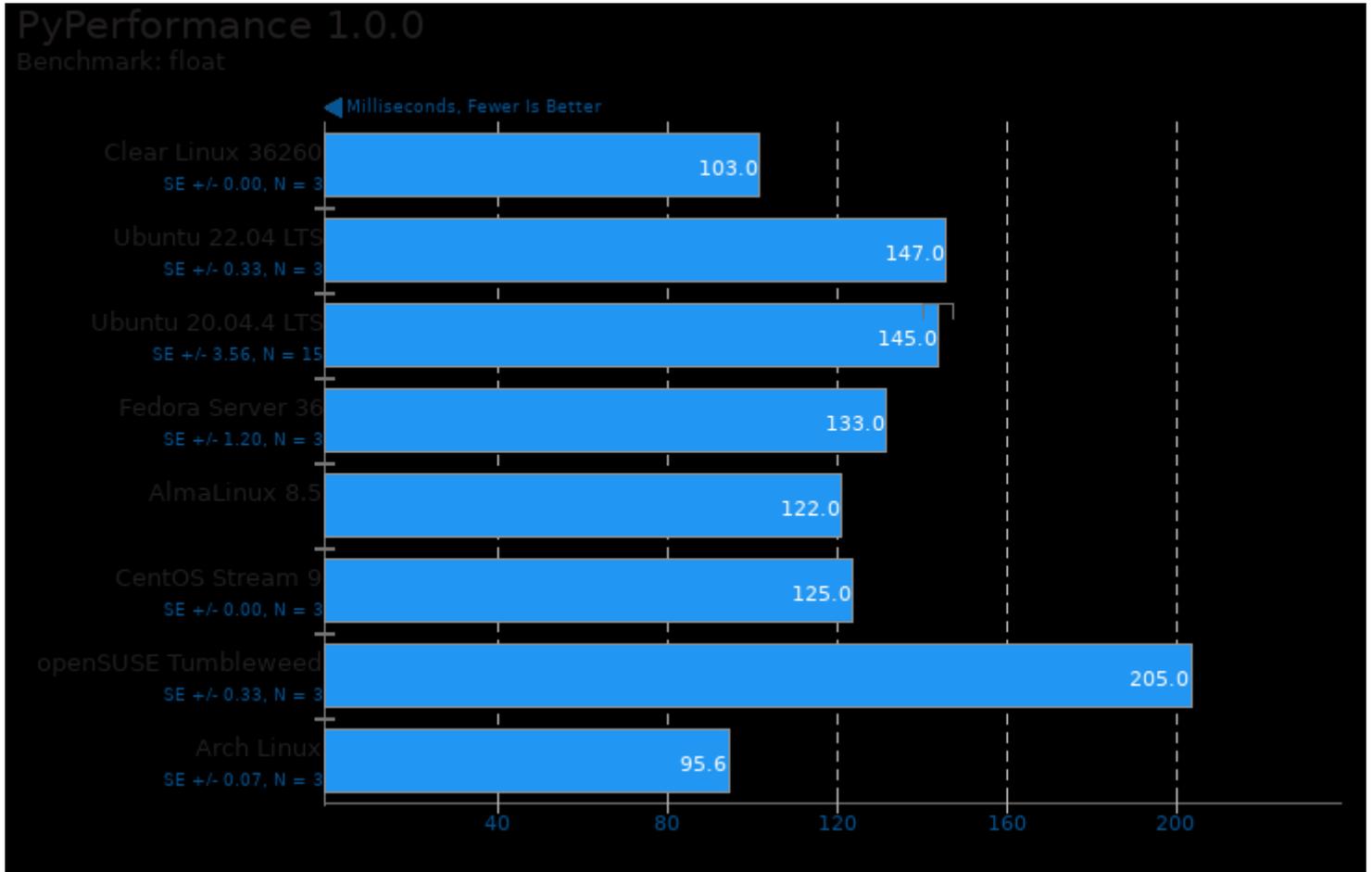


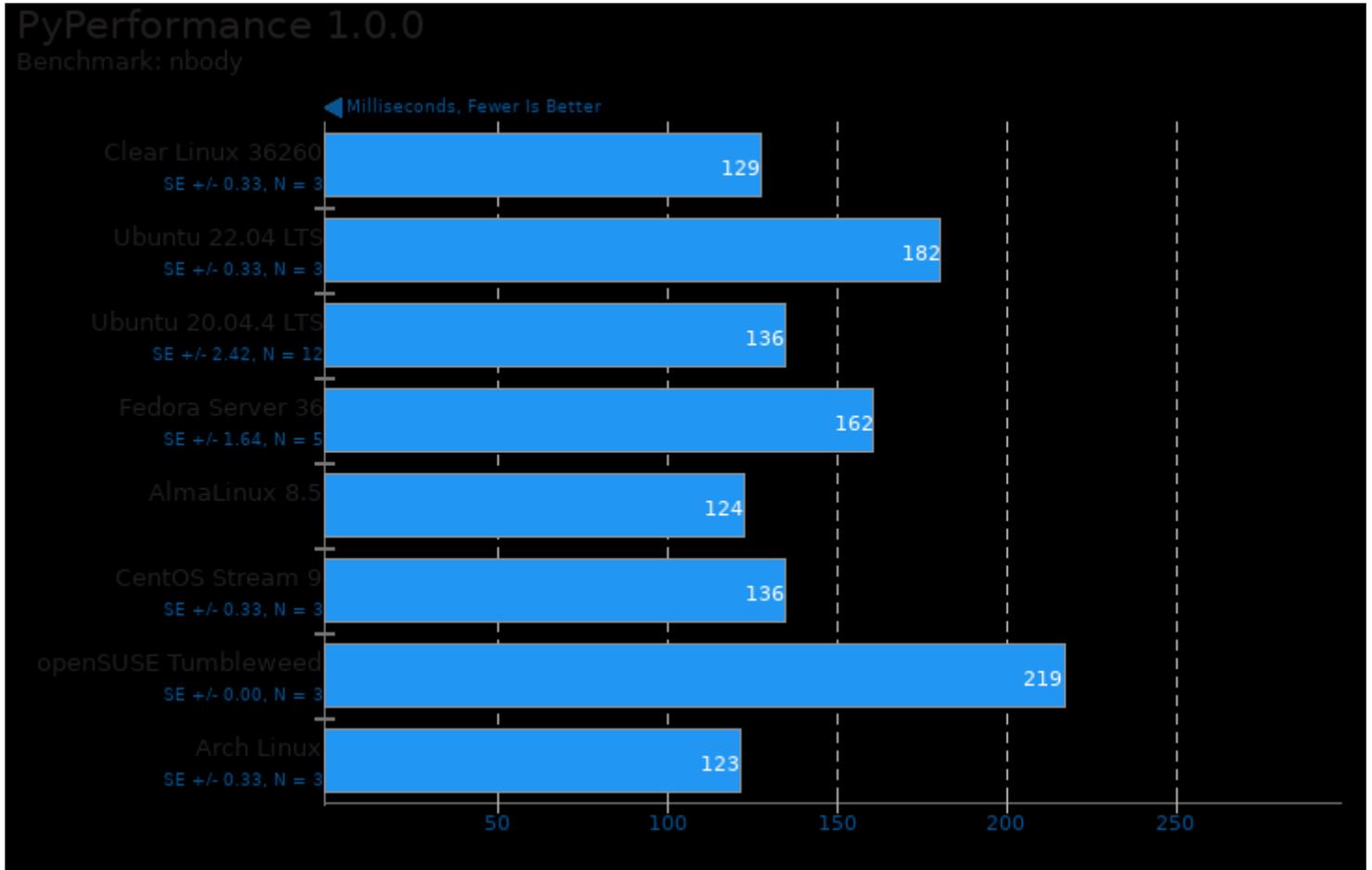


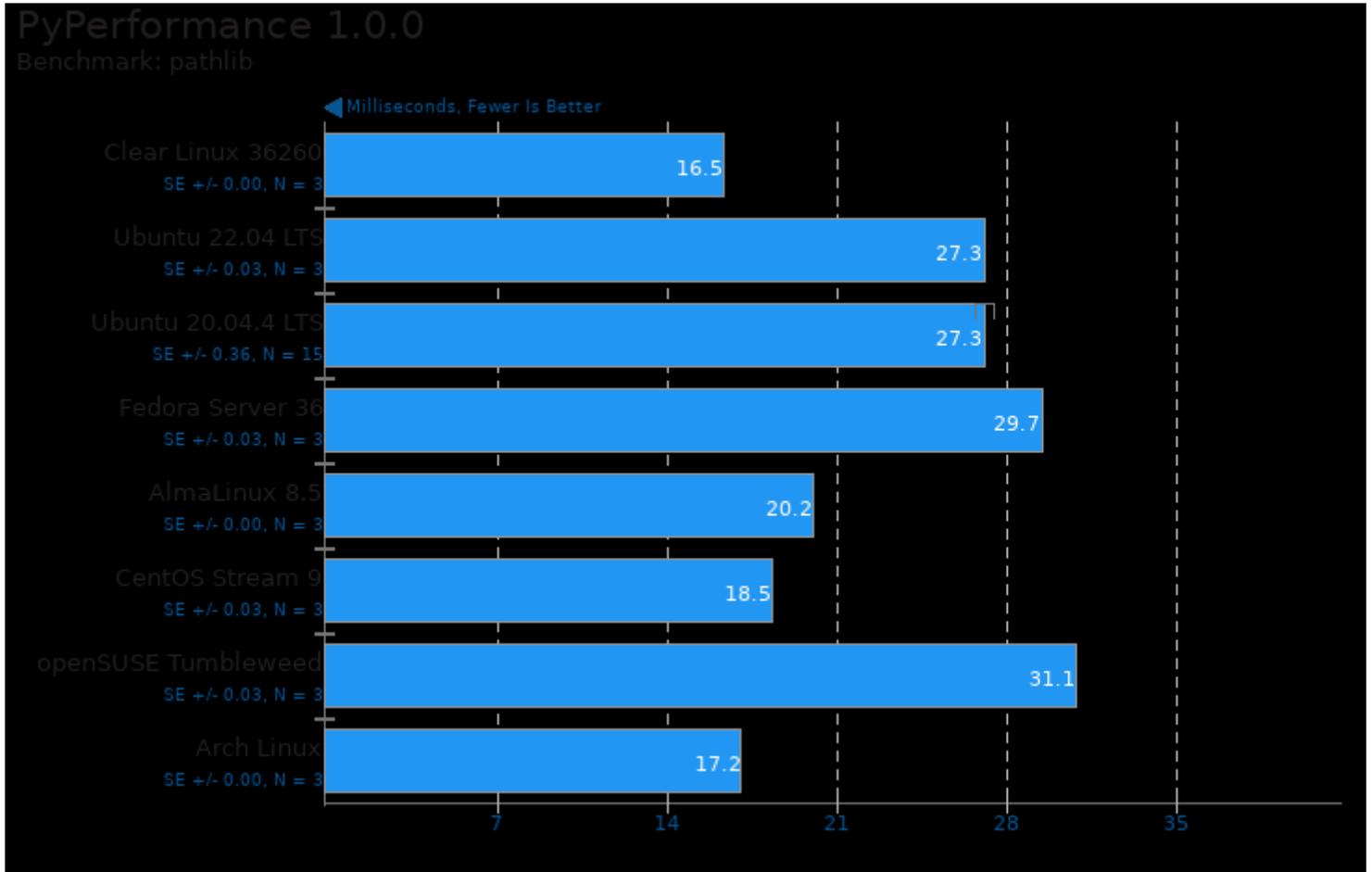


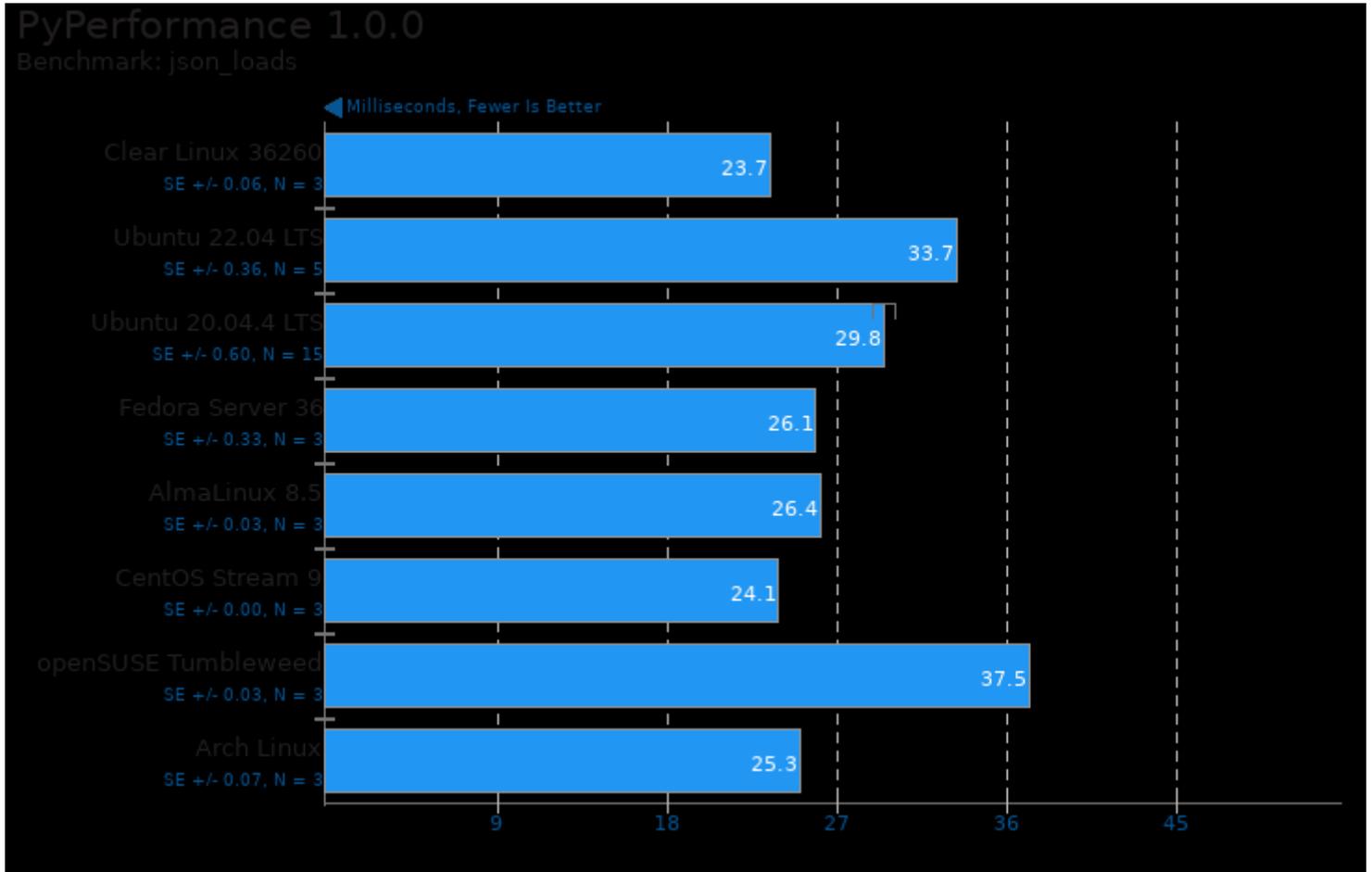


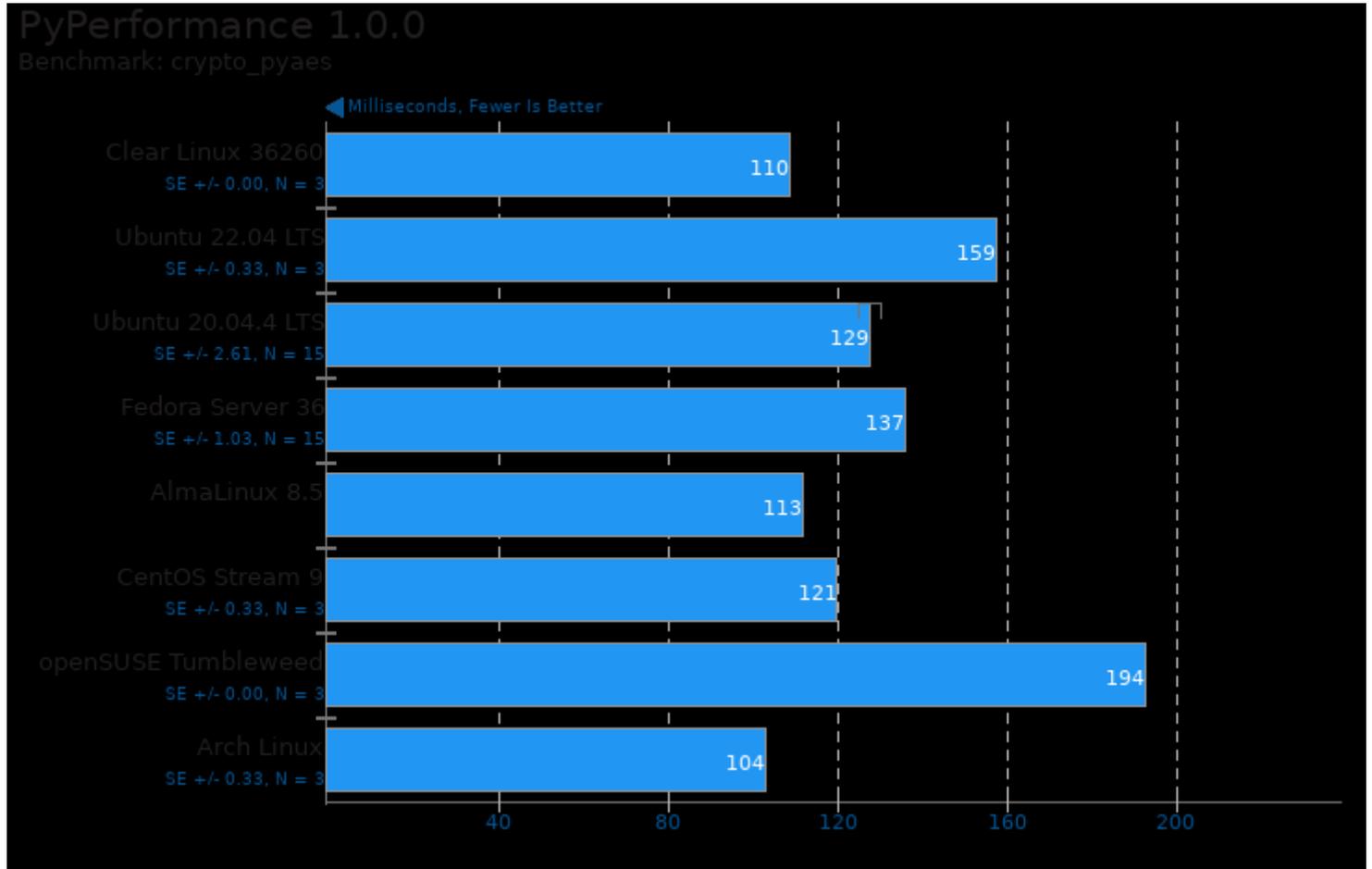


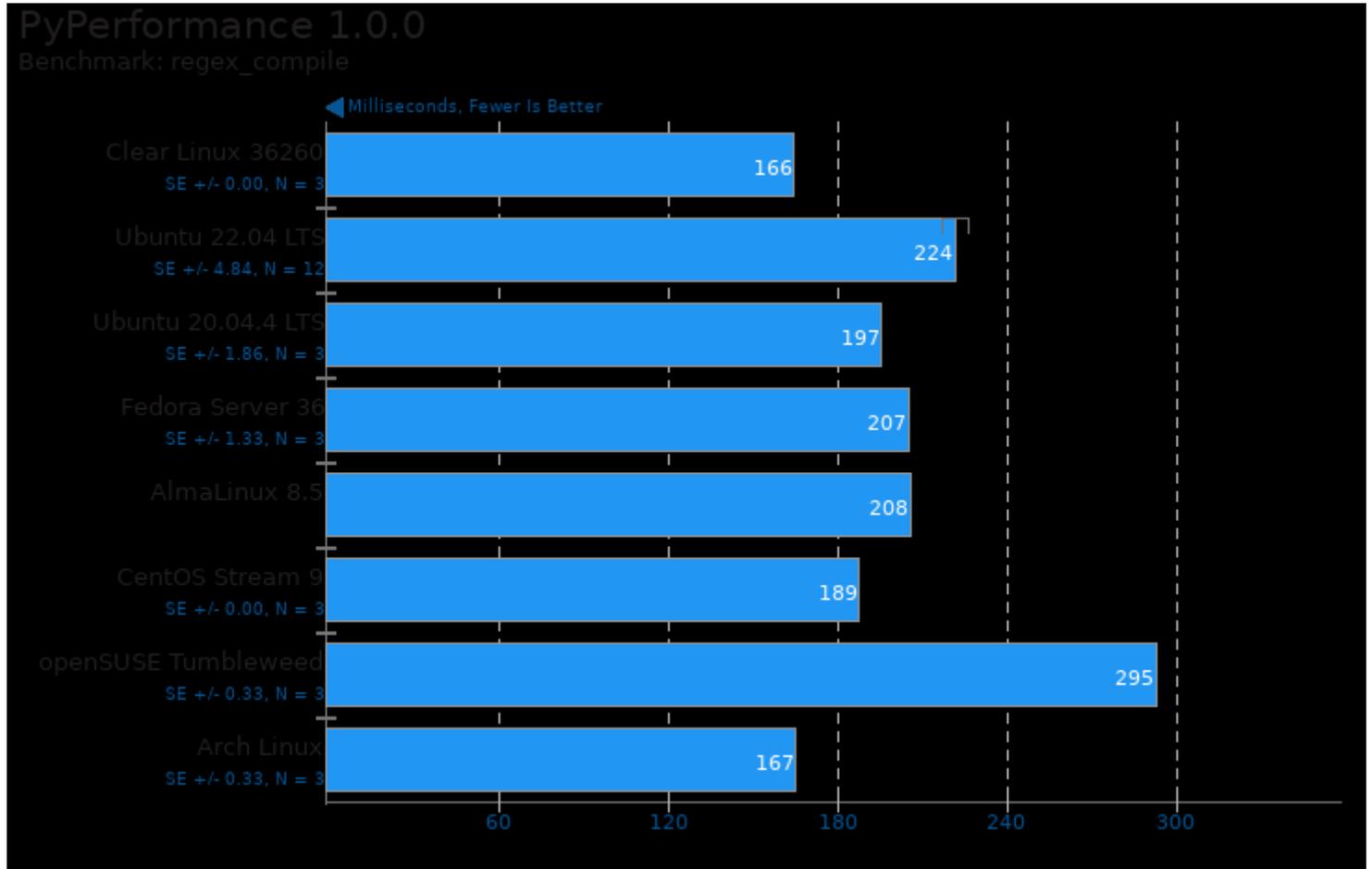


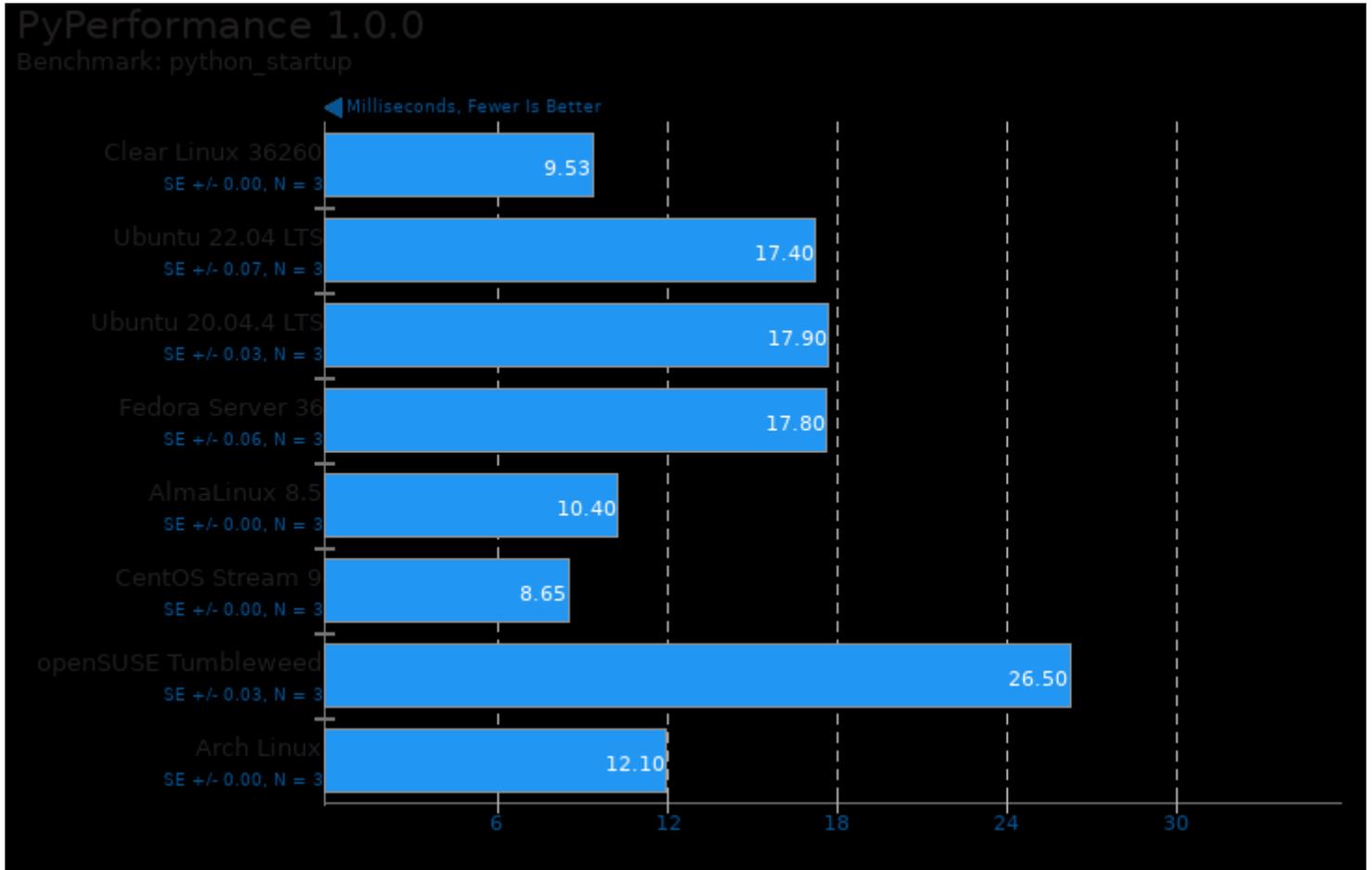


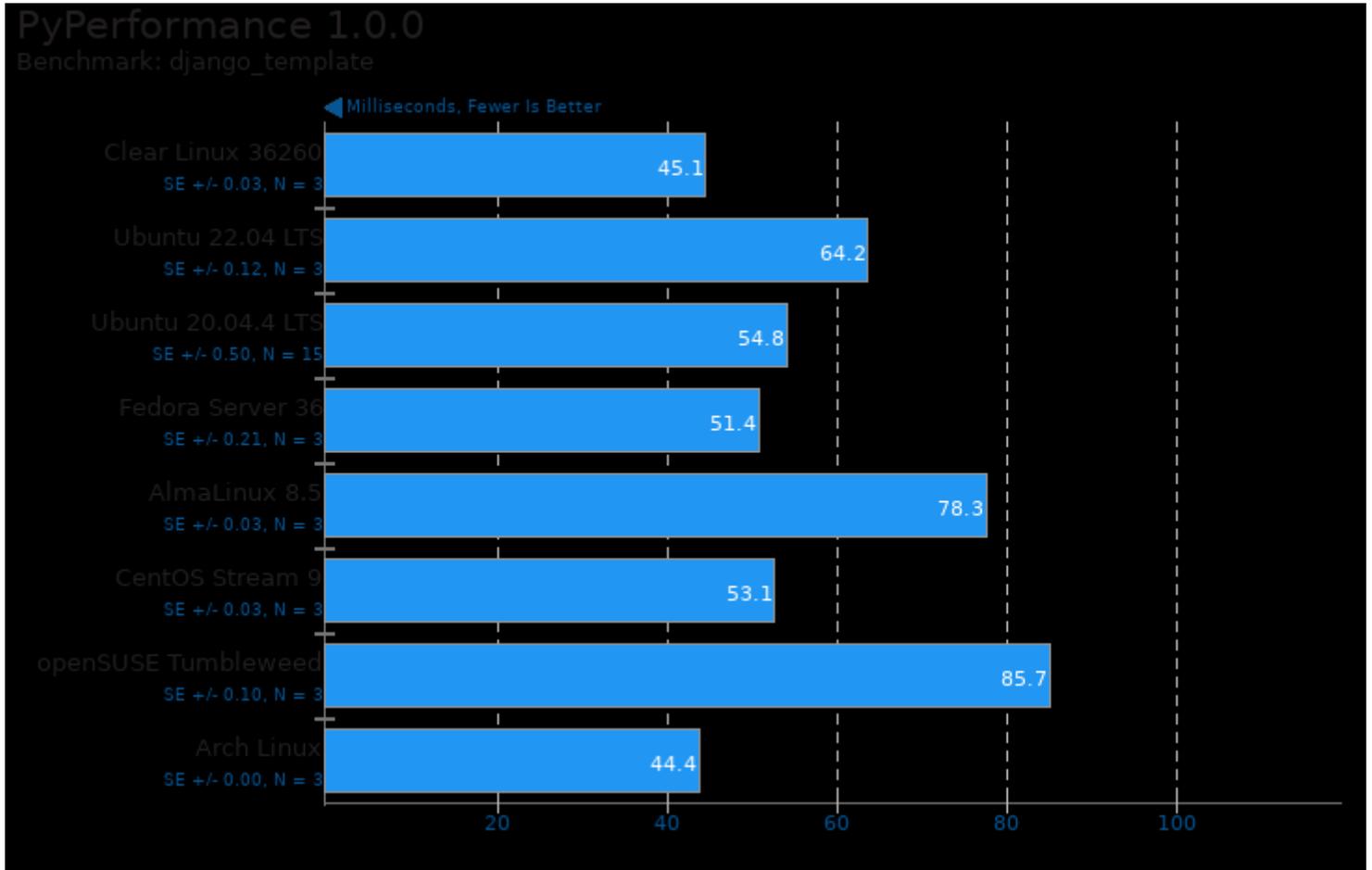






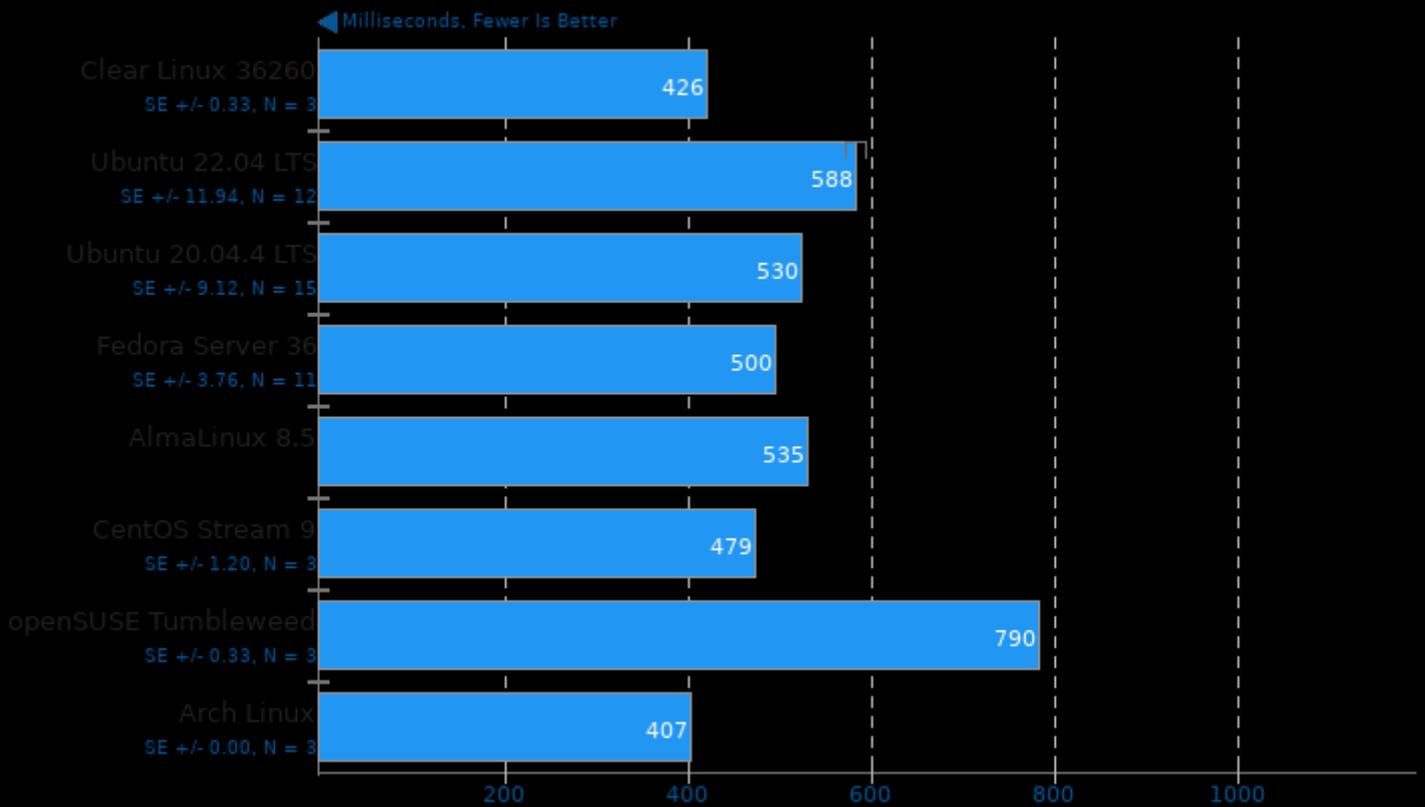




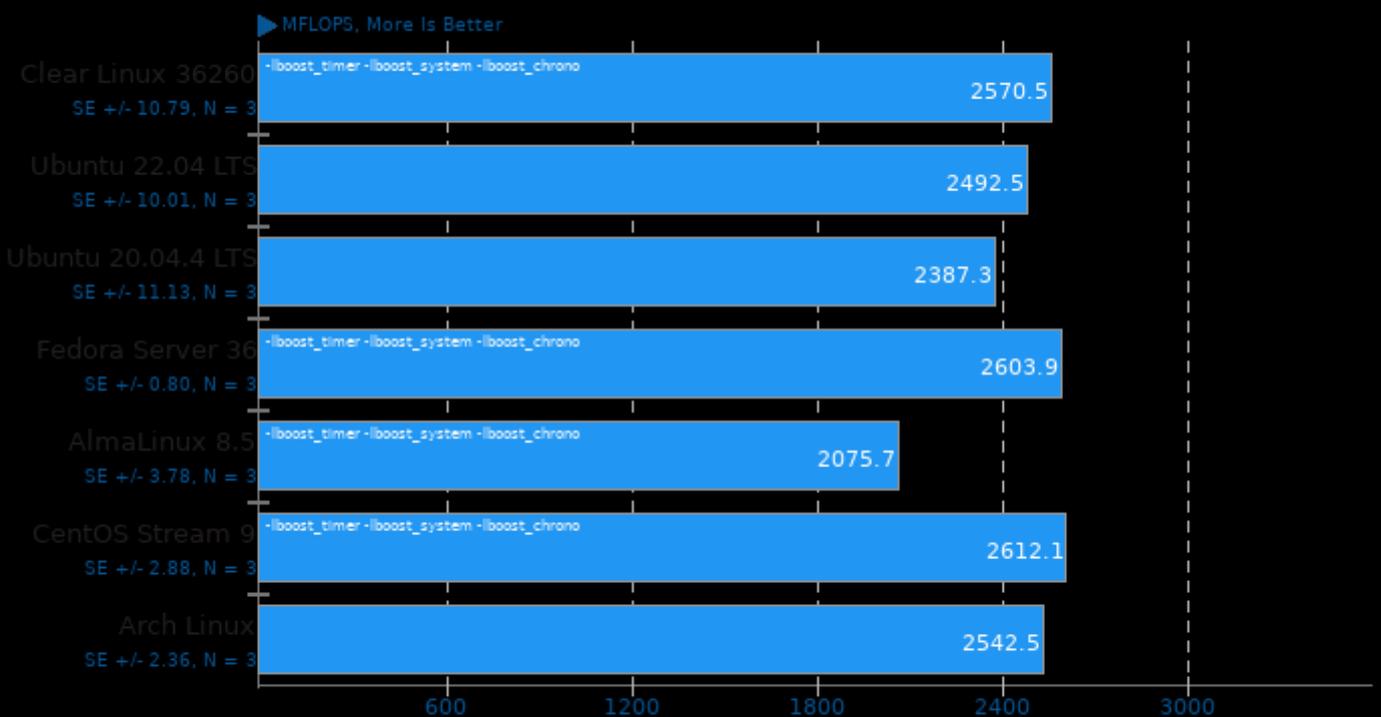


PyPerformance 1.0.0

Benchmark: pickle\_pure\_python



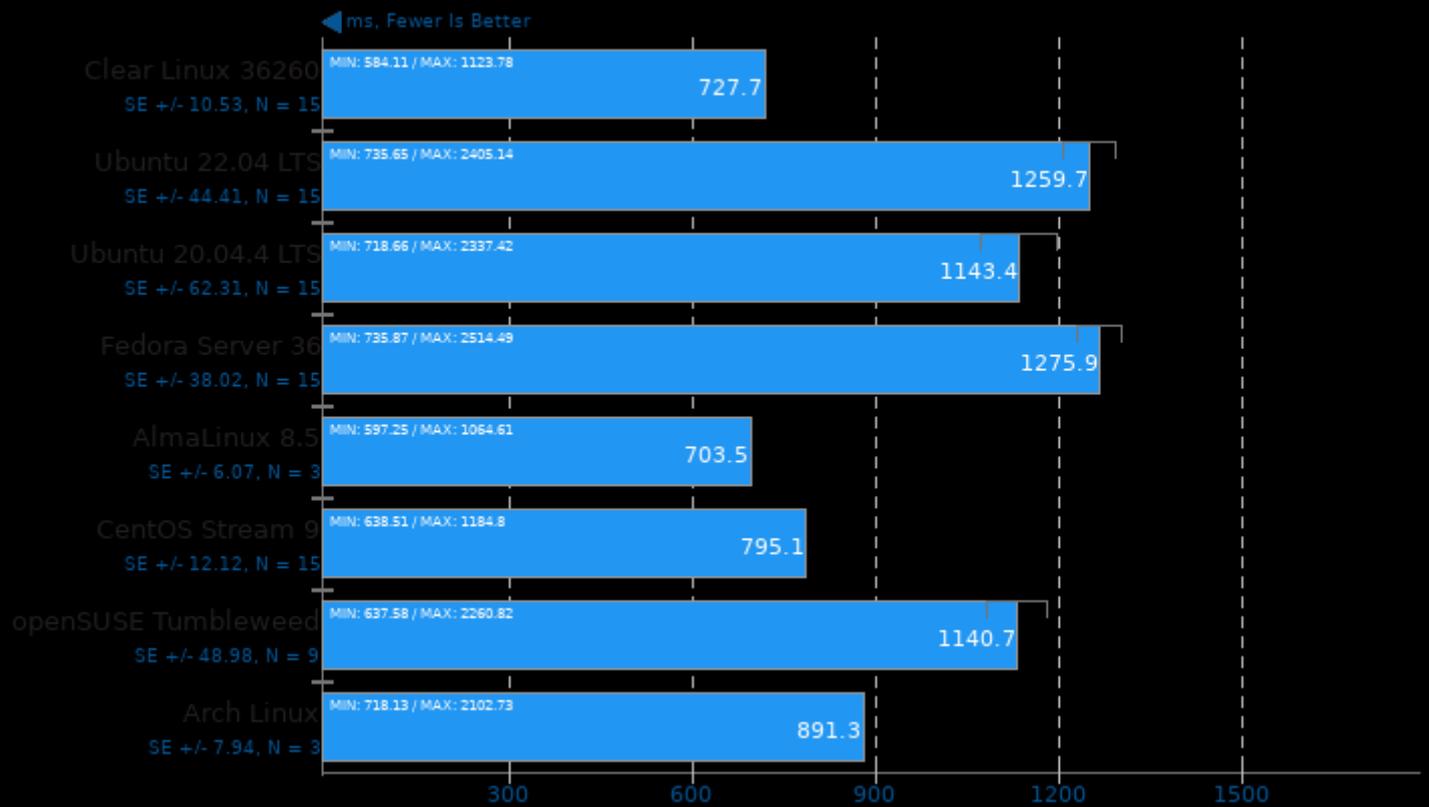
QuantLib 1.21



1. (CXX) g++ options: -O3 -march=native -rdynamic

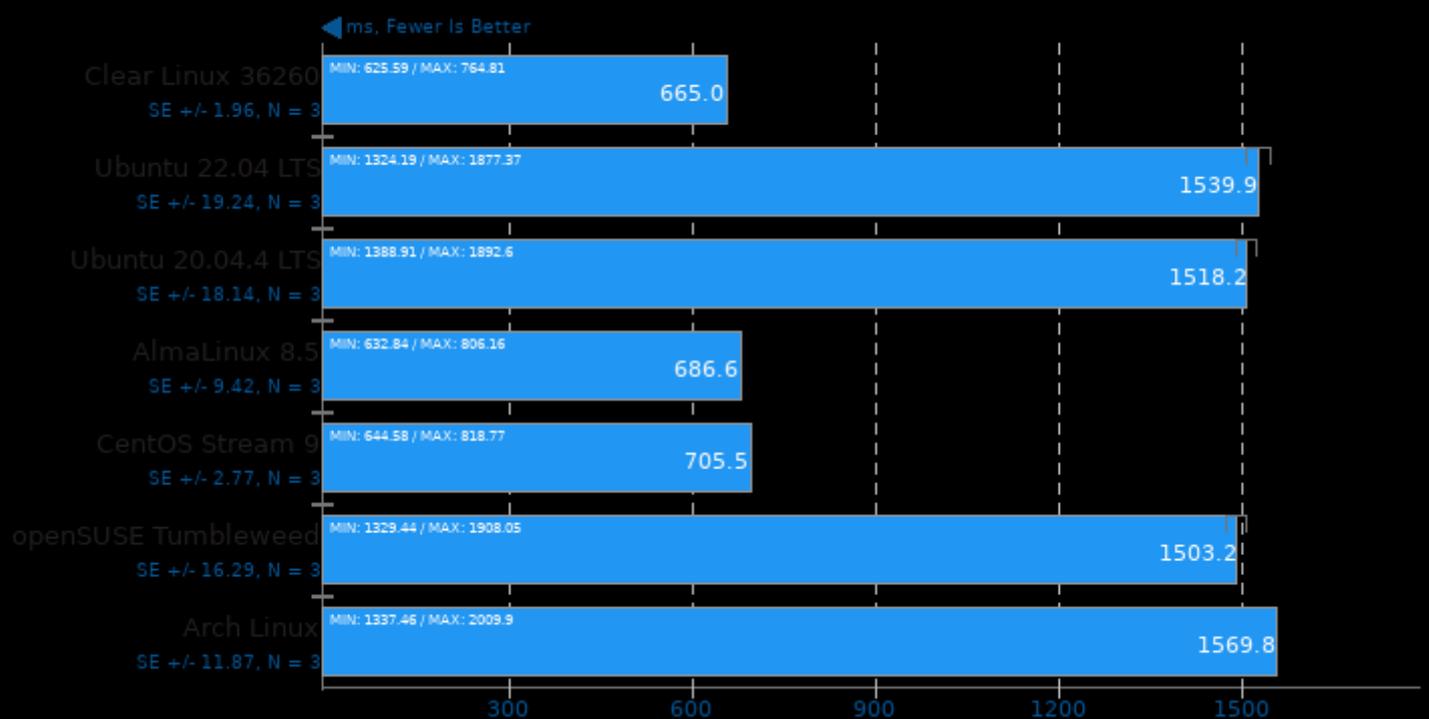
## Renaissance 0.12

Test: Scala Dotty



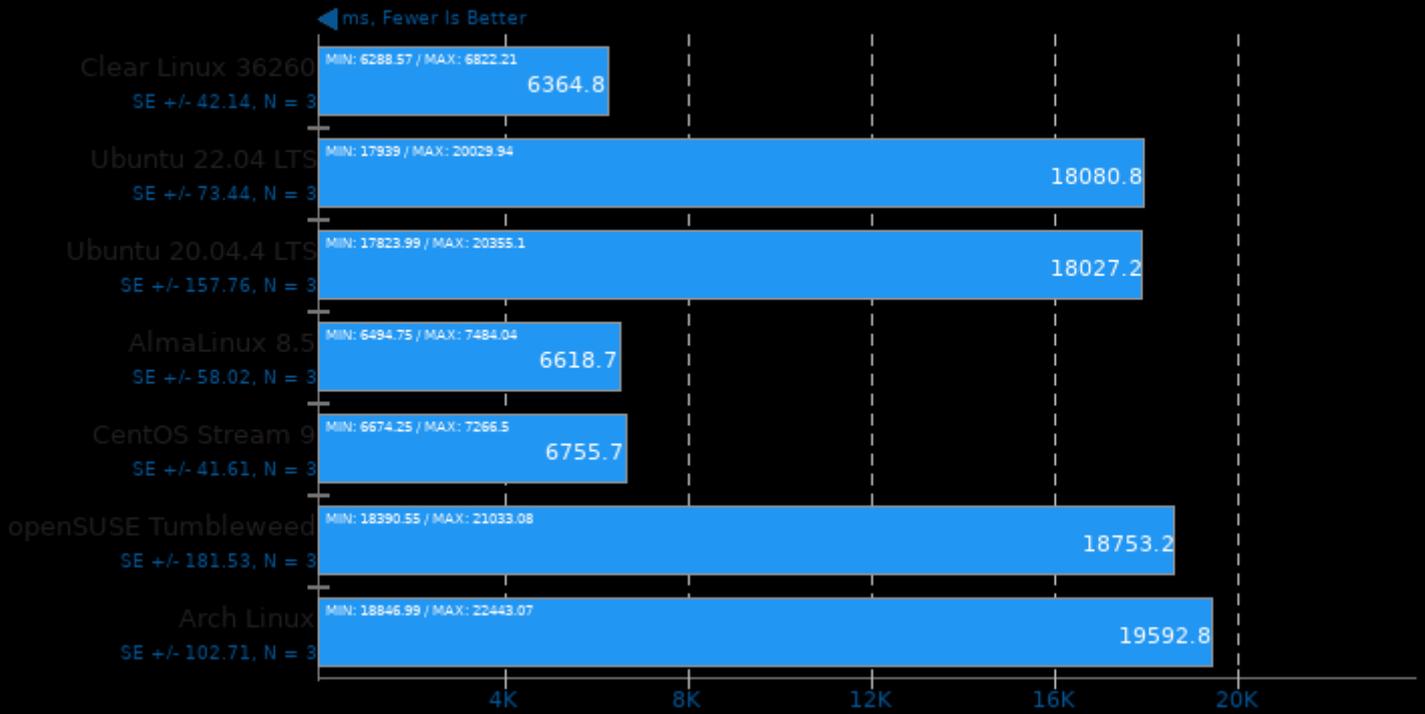
## Renaissance 0.12

Test: Random Forest



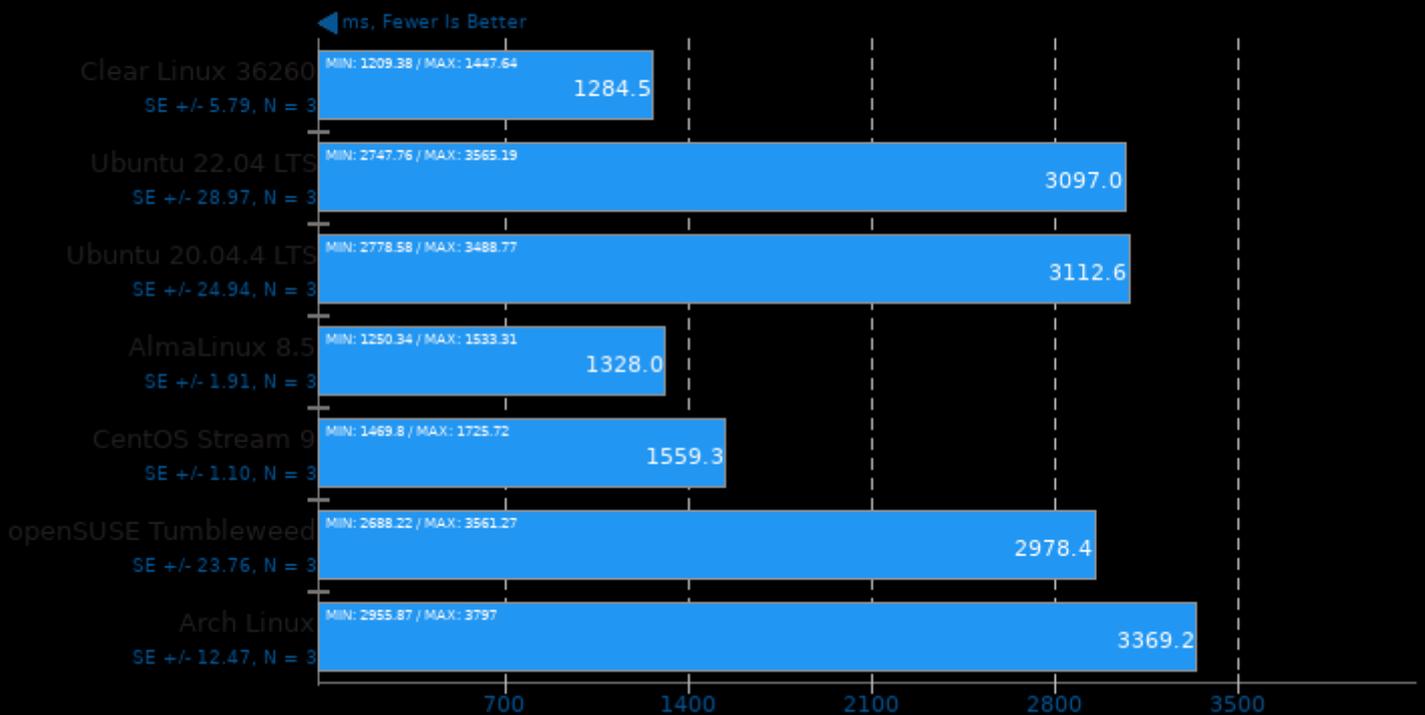
Renaissance 0.12

Test: ALS Movie Lens



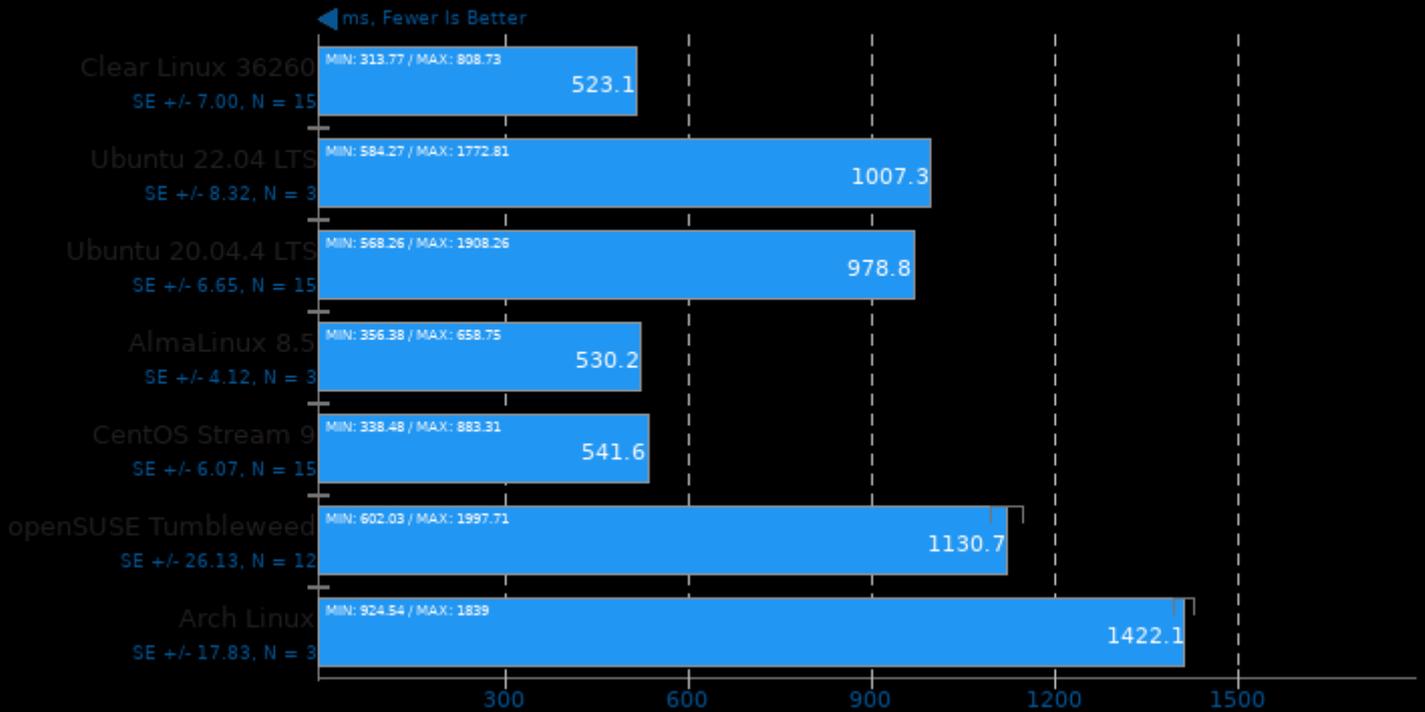
Renaissance 0.12

Test: Apache Spark ALS



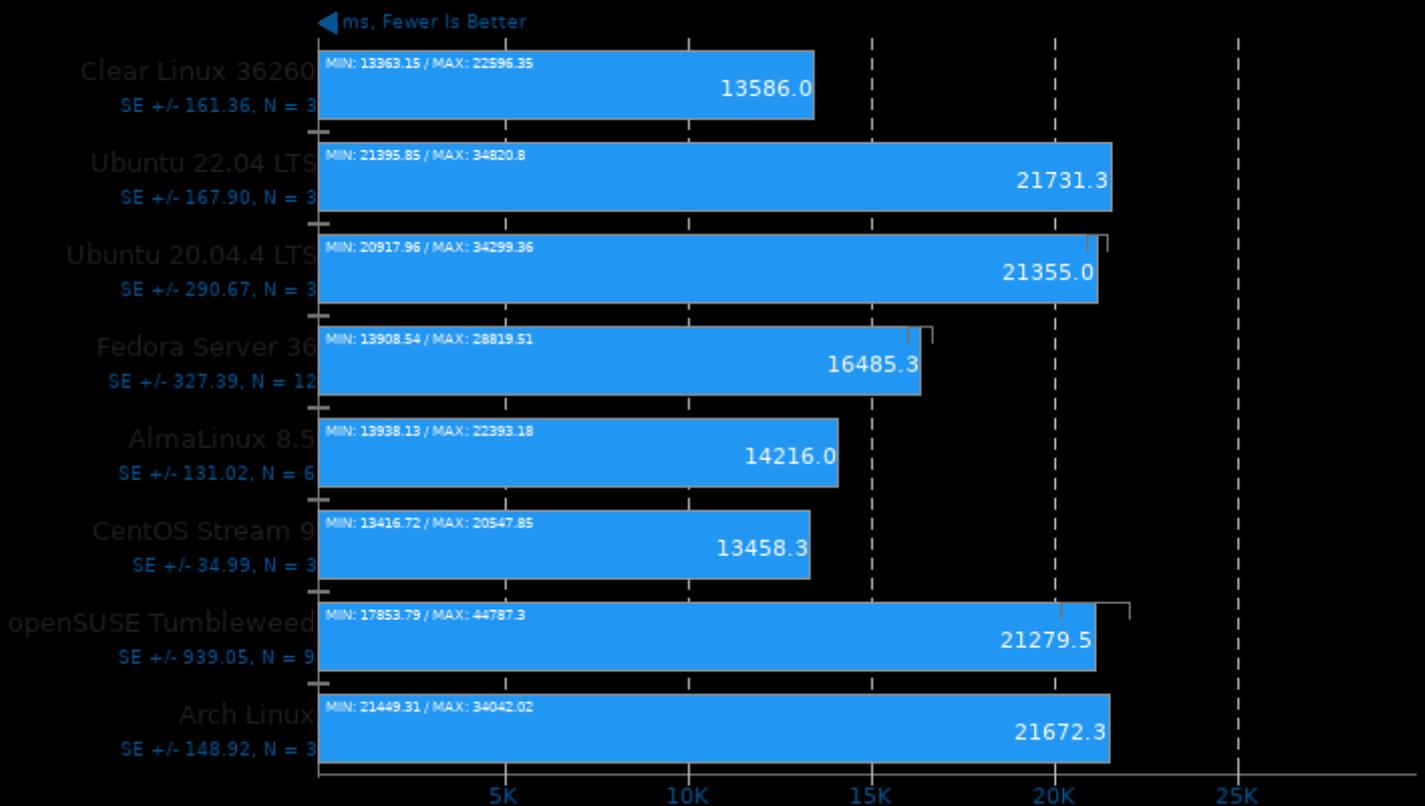
Renaissance 0.12

Test: Apache Spark Bayes



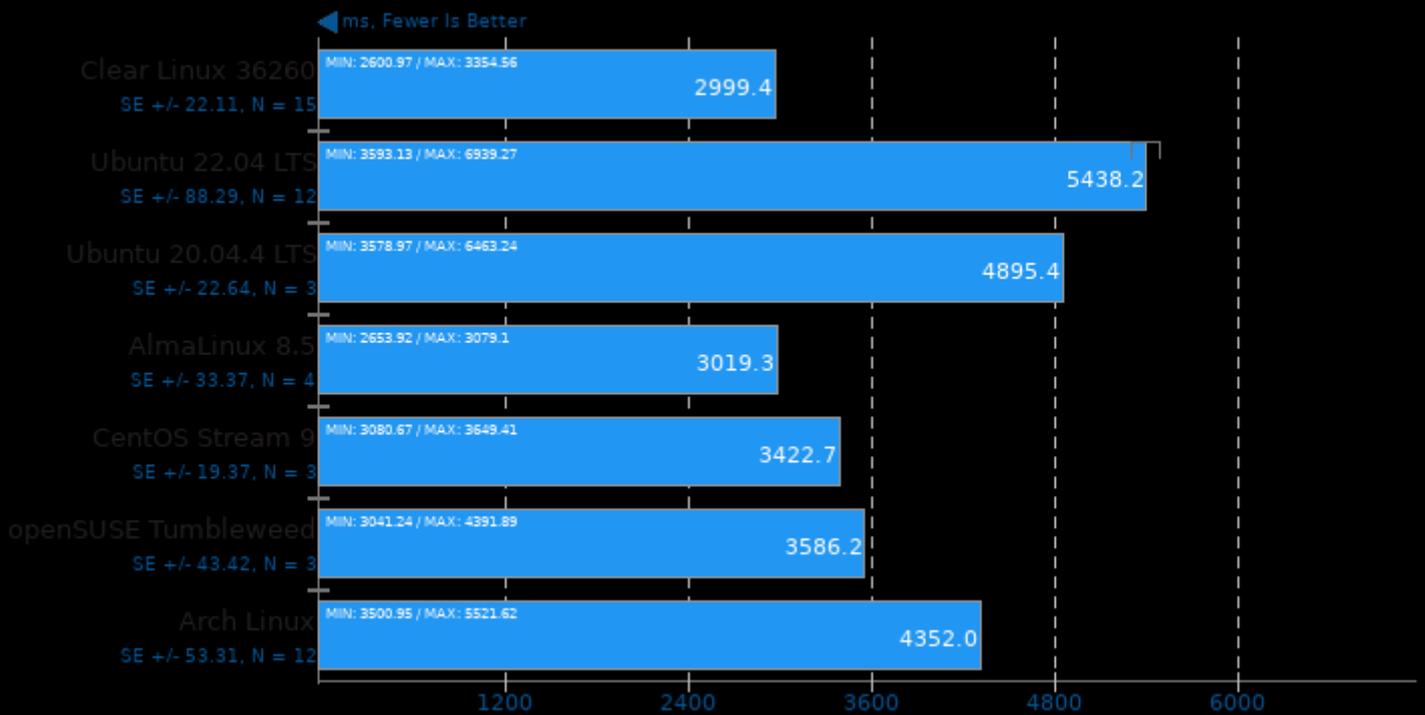
Renaissance 0.12

Test: Savina Reactors.IO



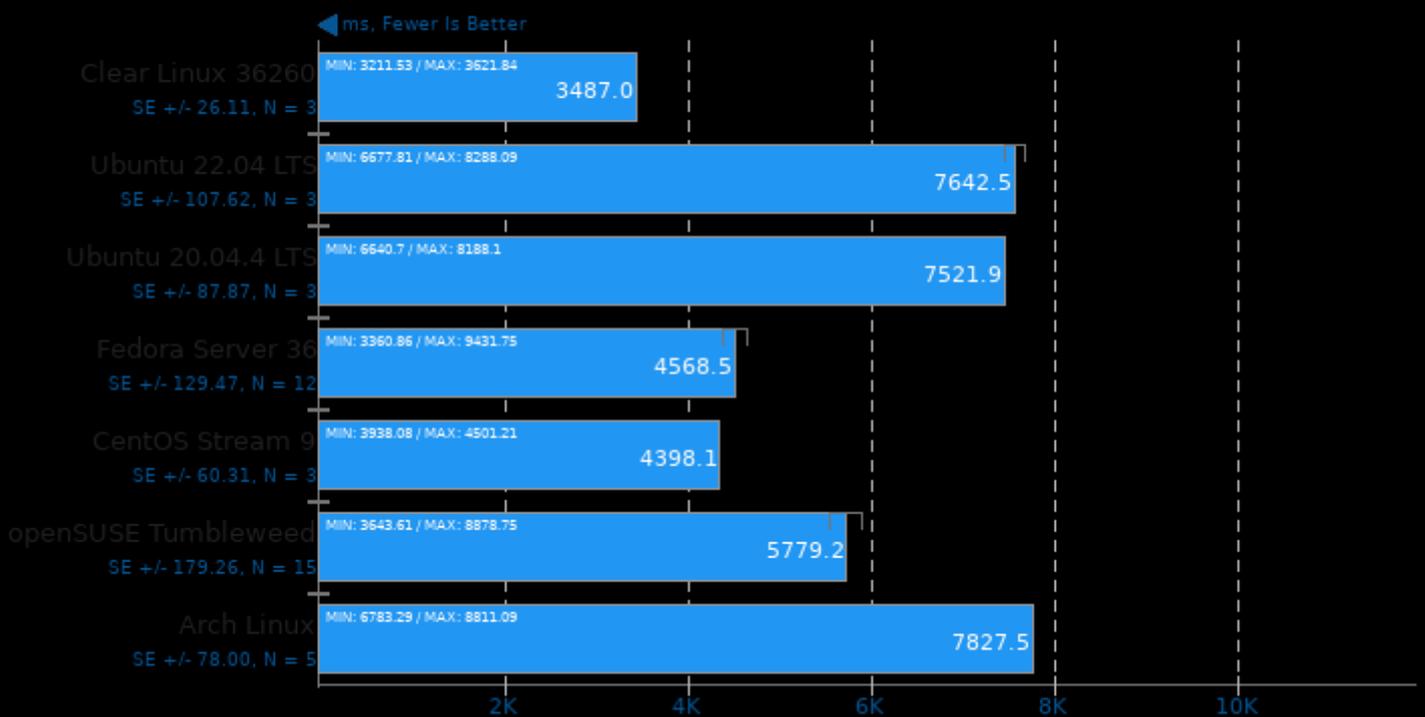
## Renaissance 0.12

Test: Apache Spark PageRank



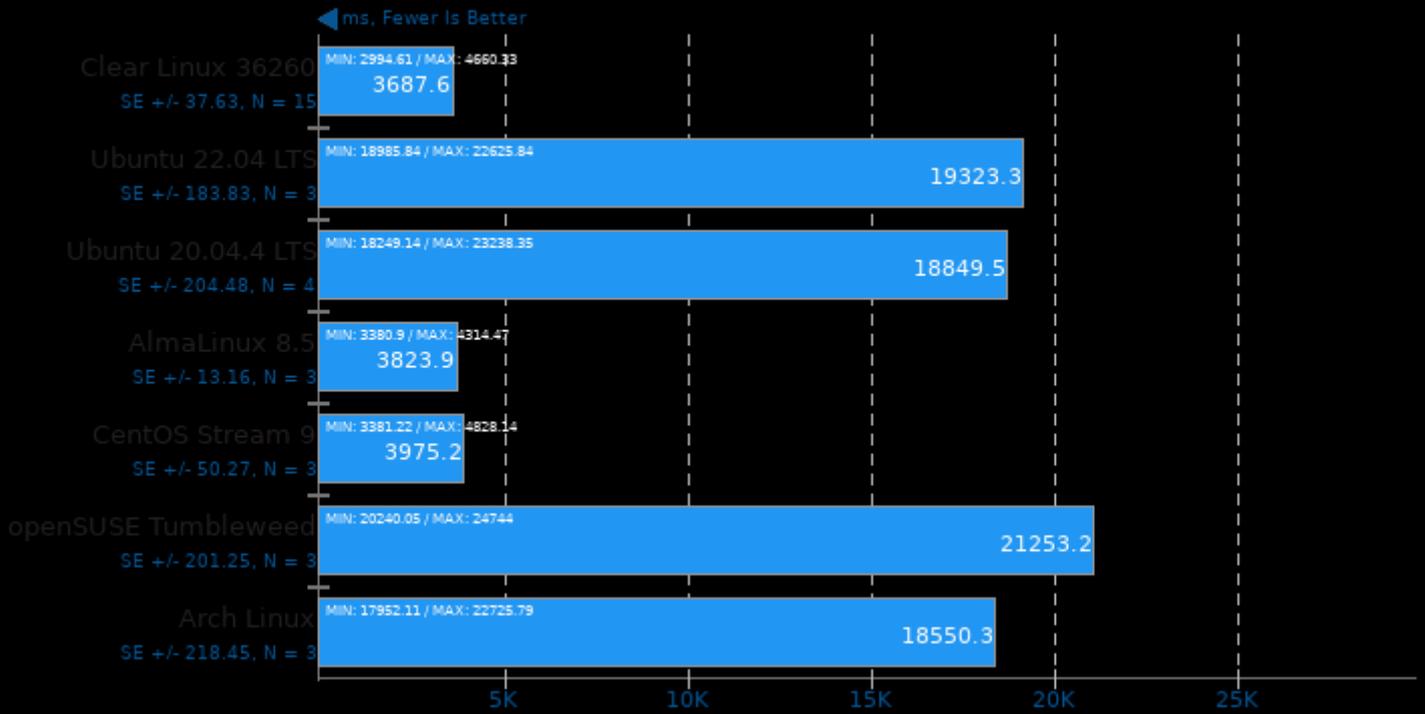
## Renaissance 0.12

Test: Finagle HTTP Requests



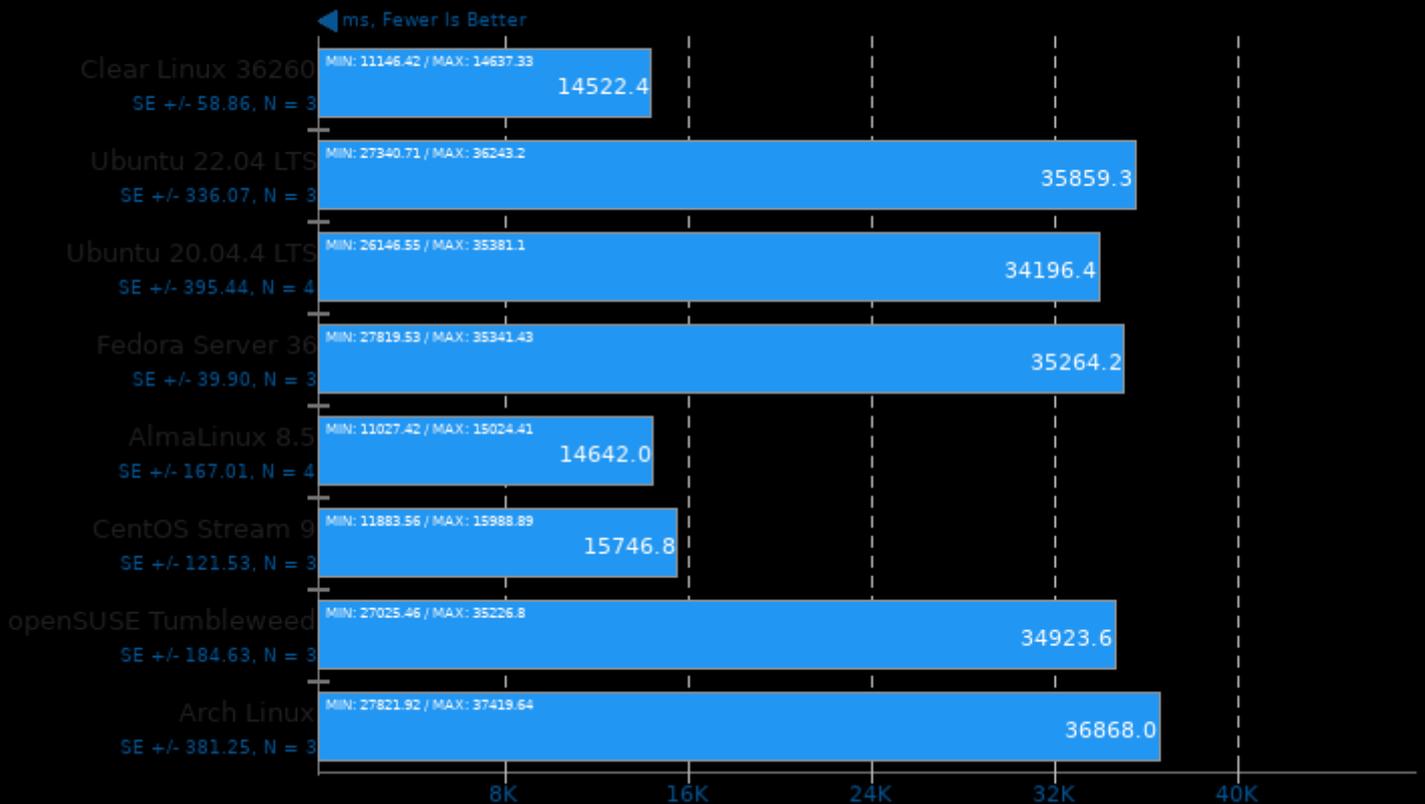
Renaissance 0.12

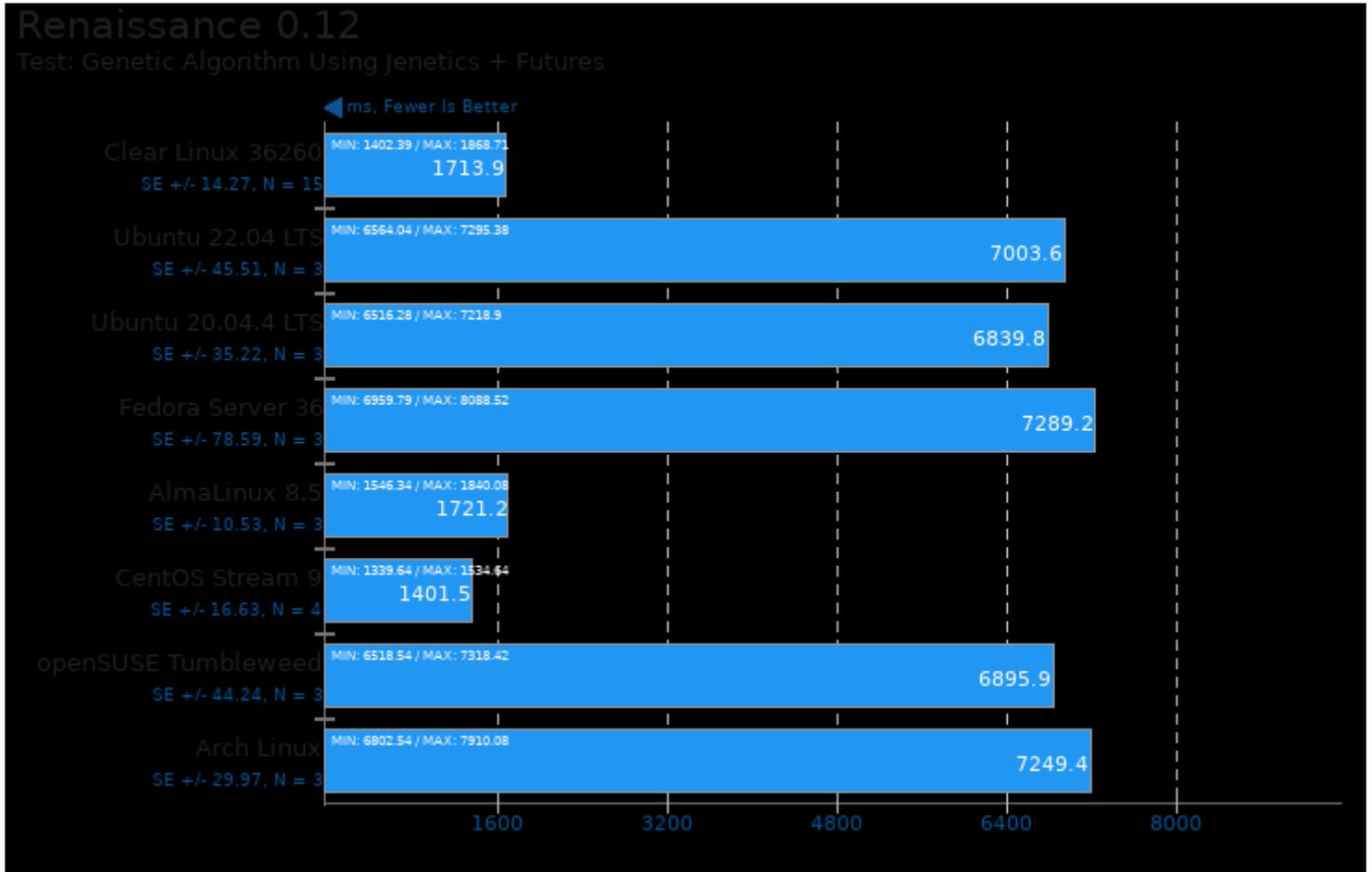
Test: In-Memory Database Shootout

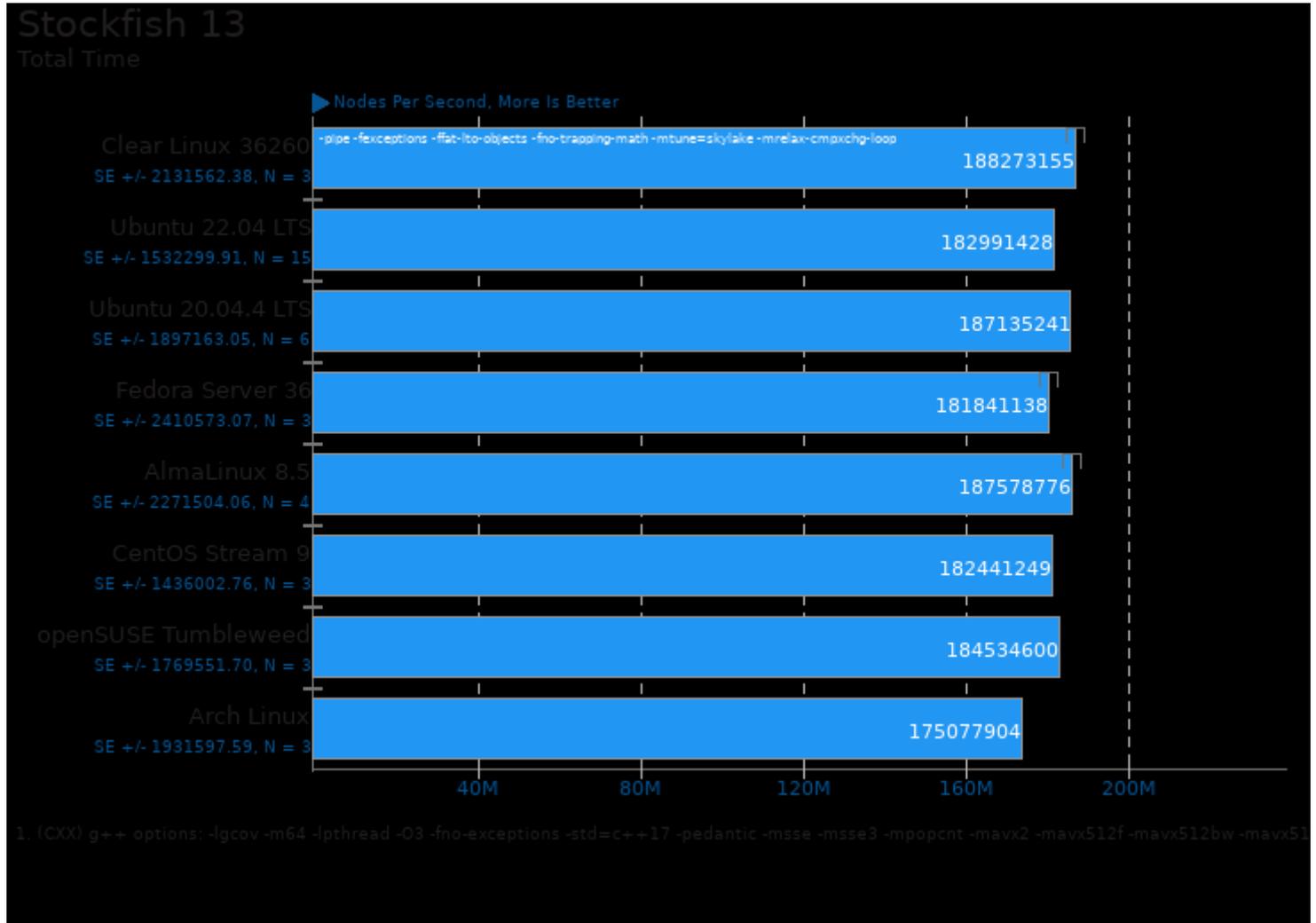


Renaissance 0.12

Test: Akka Unbalanced Cobwebbed Tree

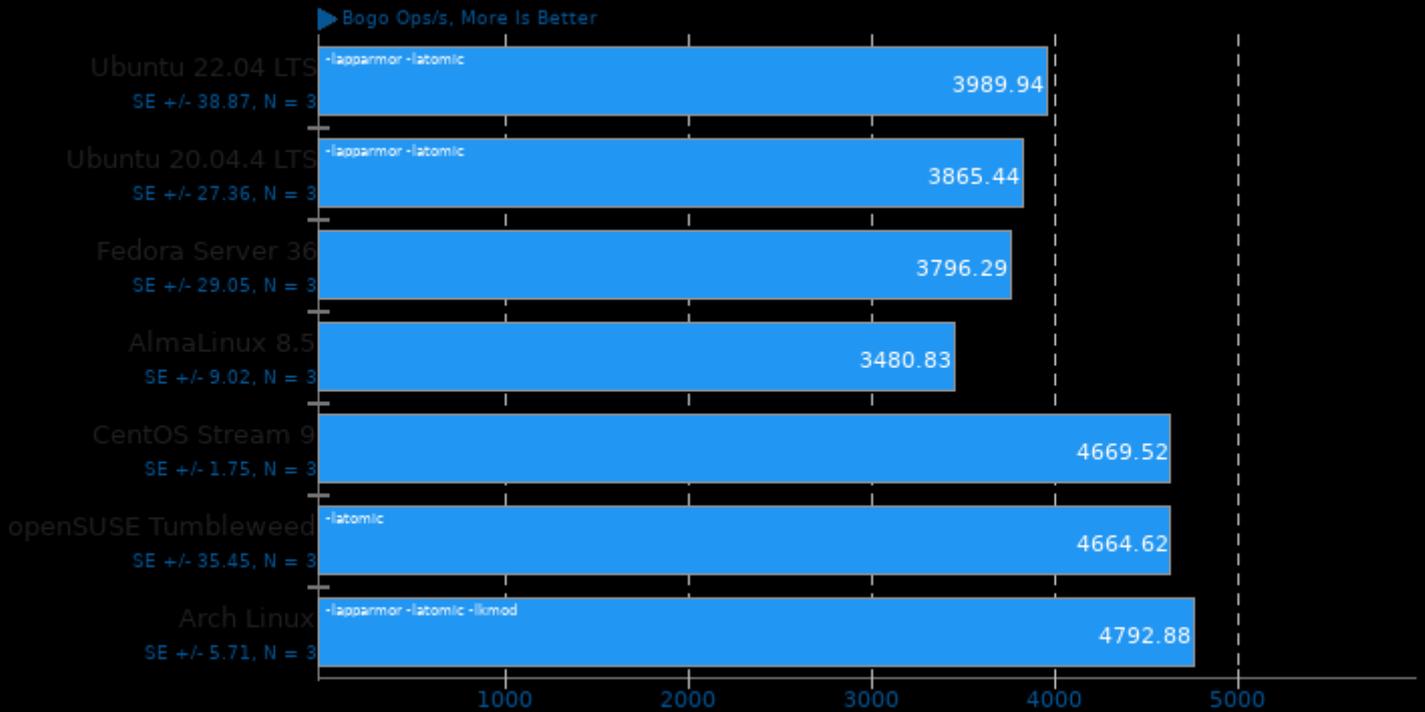






## Stress-NG 0.14

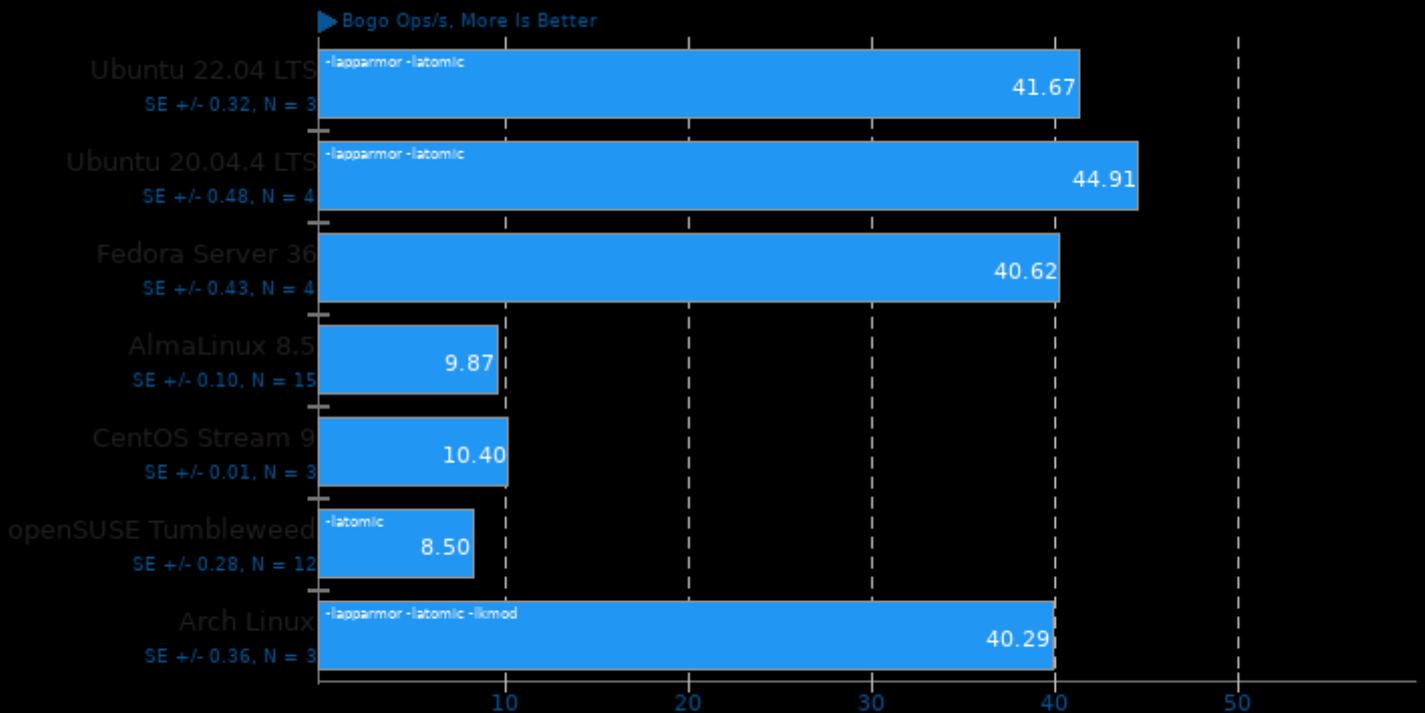
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

## Stress-NG 0.14

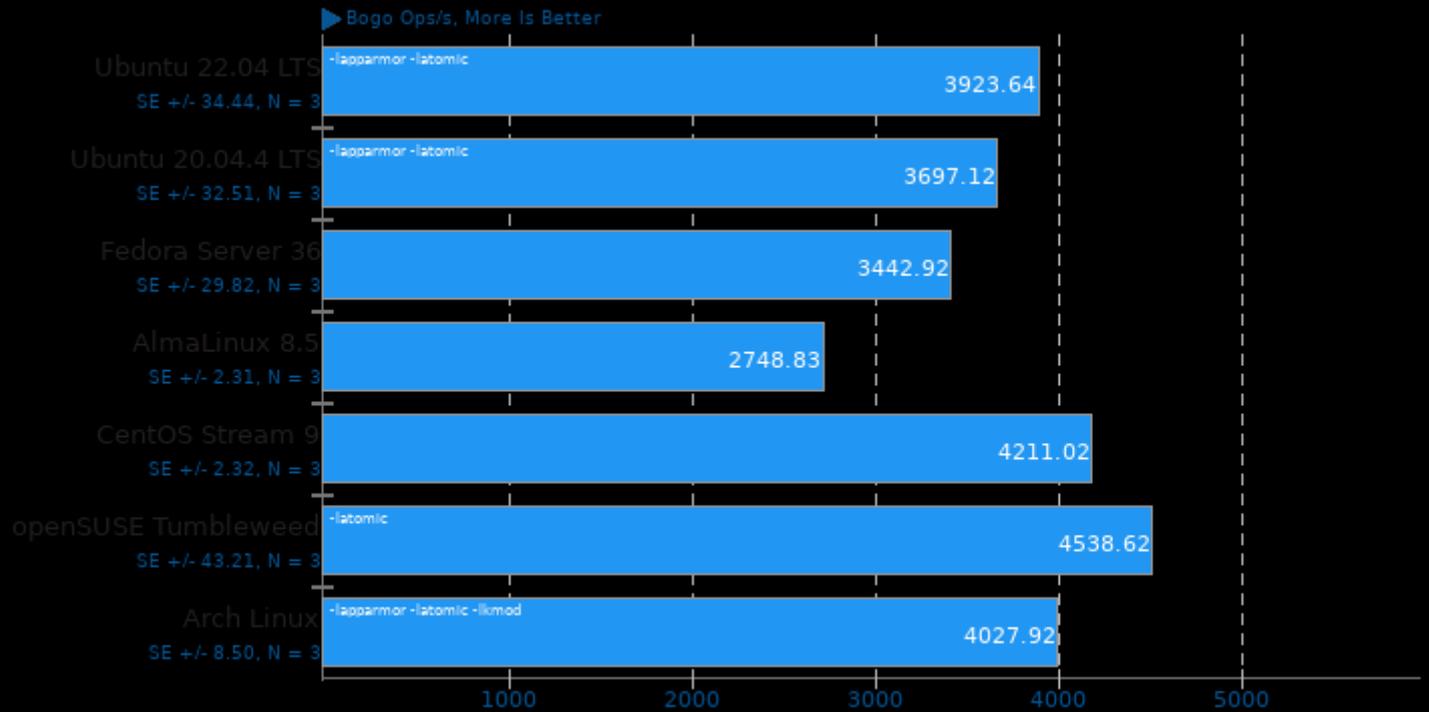
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

### Stress-NG 0.14

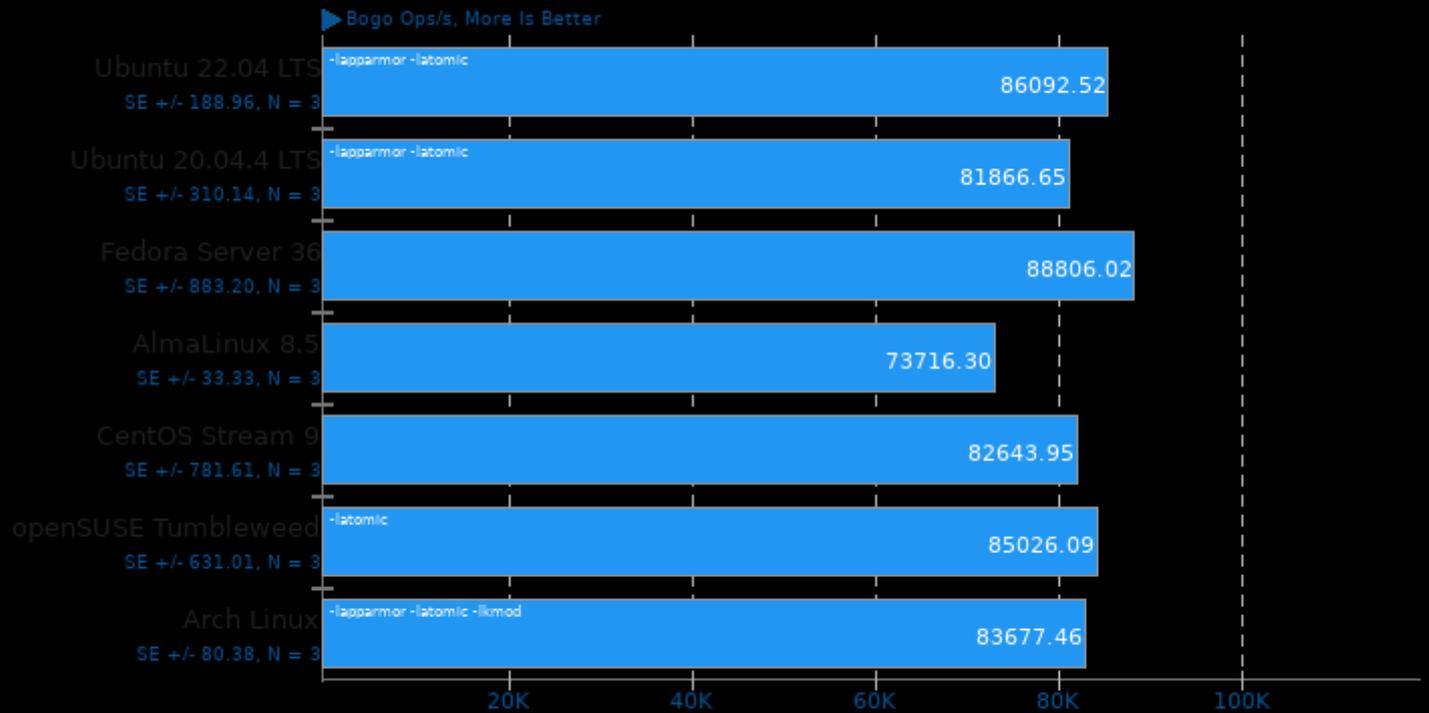
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

### Stress-NG 0.14

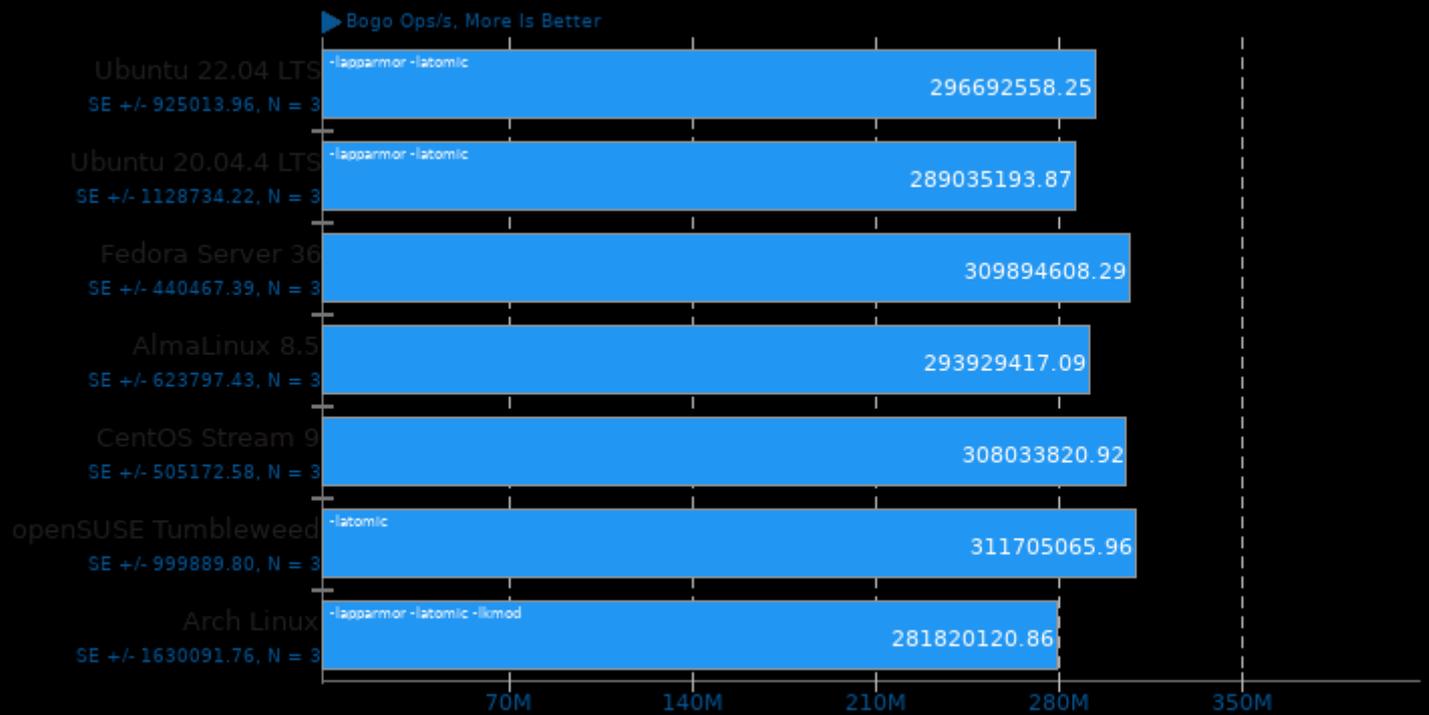
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

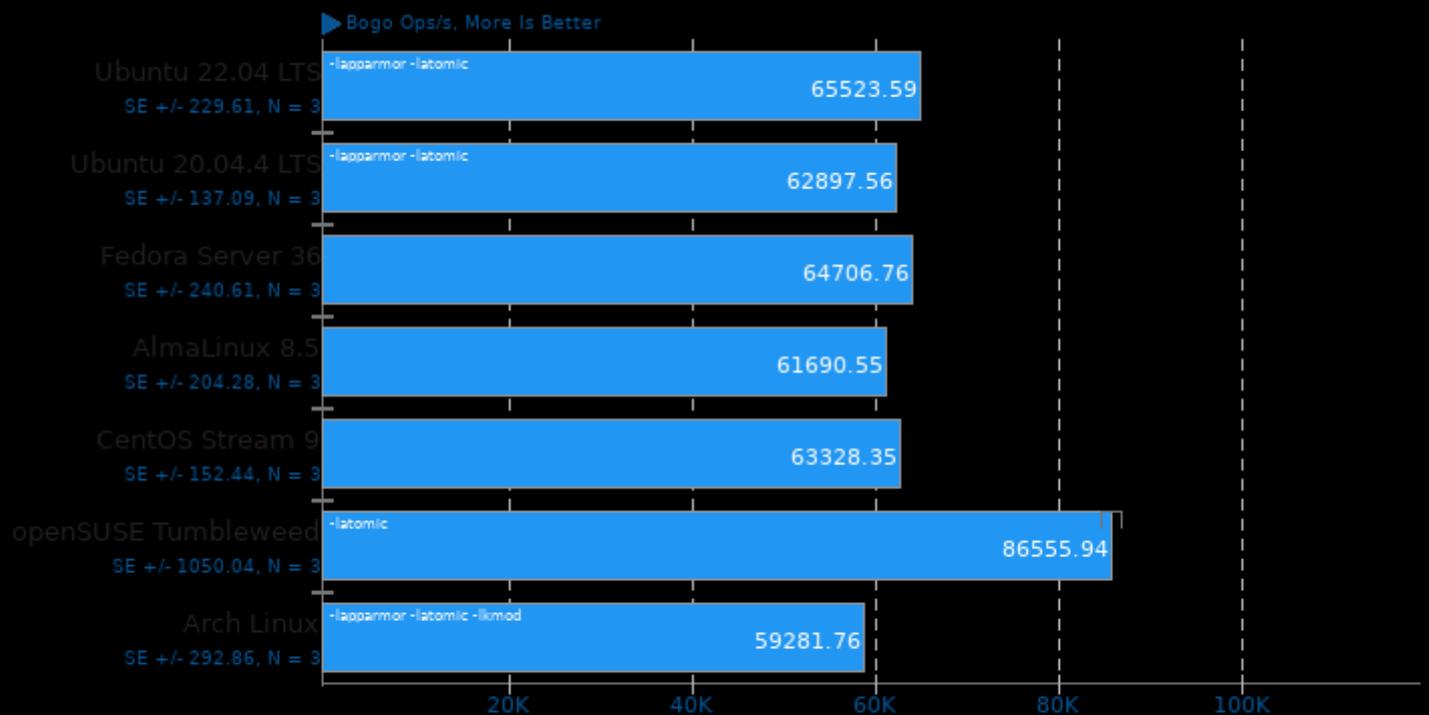
## Stress-NG 0.14

Test: Malloc



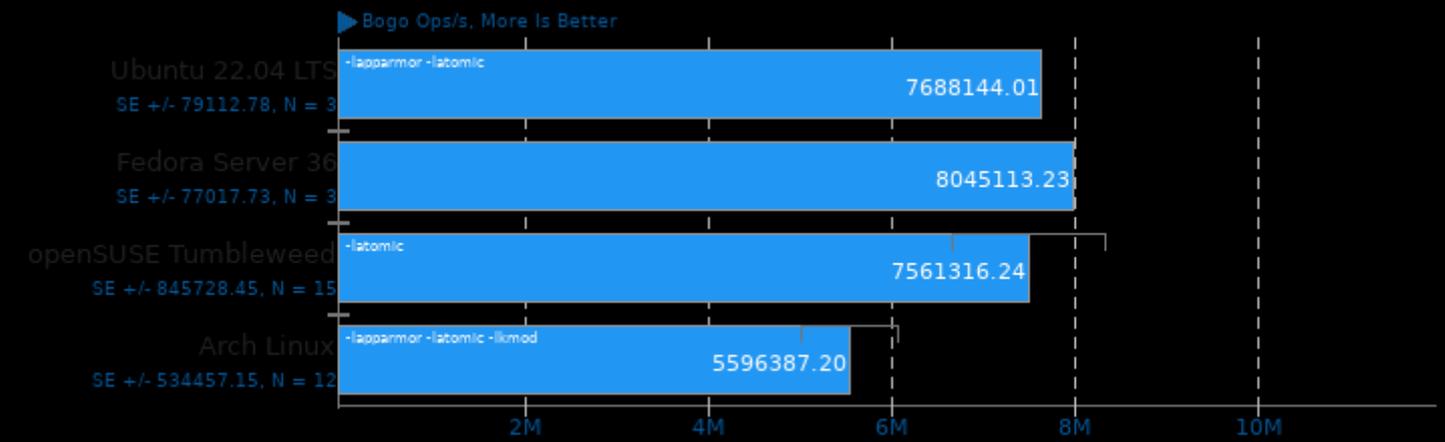
## Stress-NG 0.14

Test: Forking



### Stress-NG 0.14

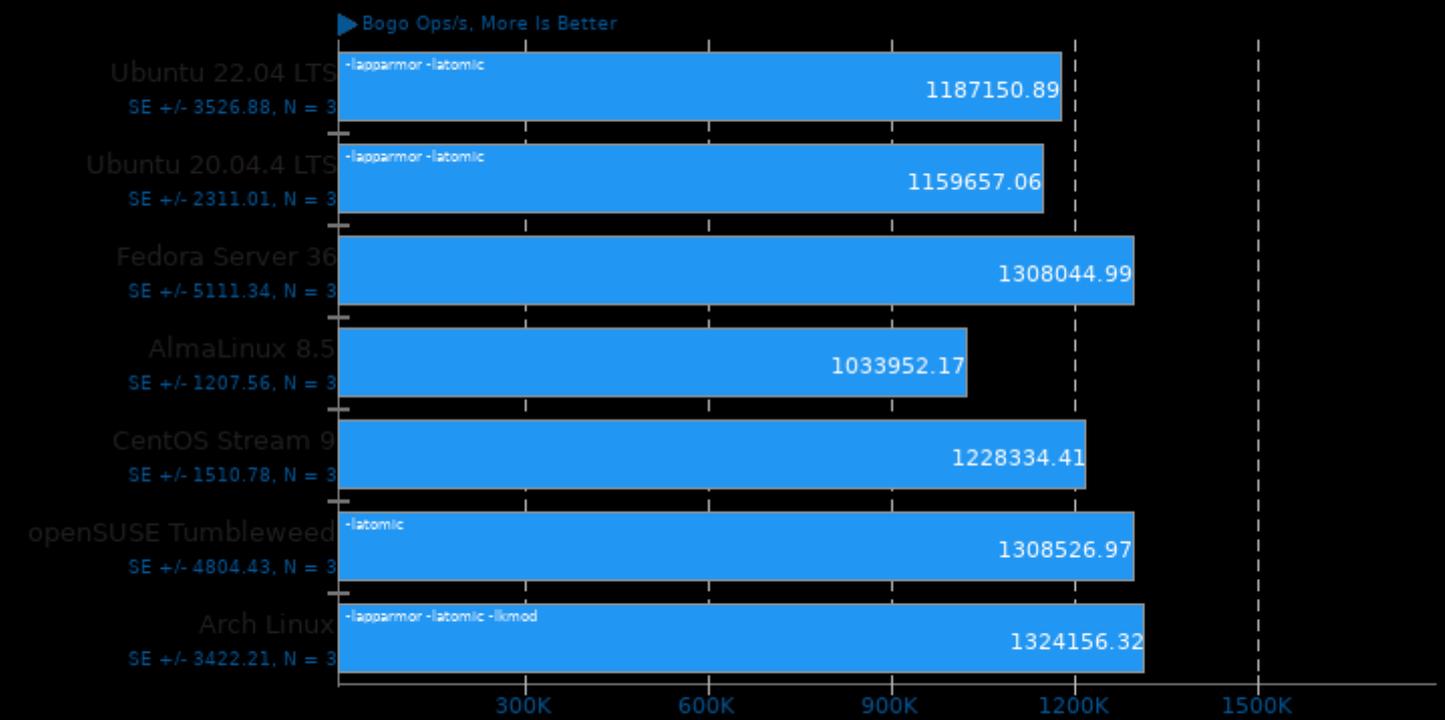
Test: IO\_uring



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

### Stress-NG 0.14

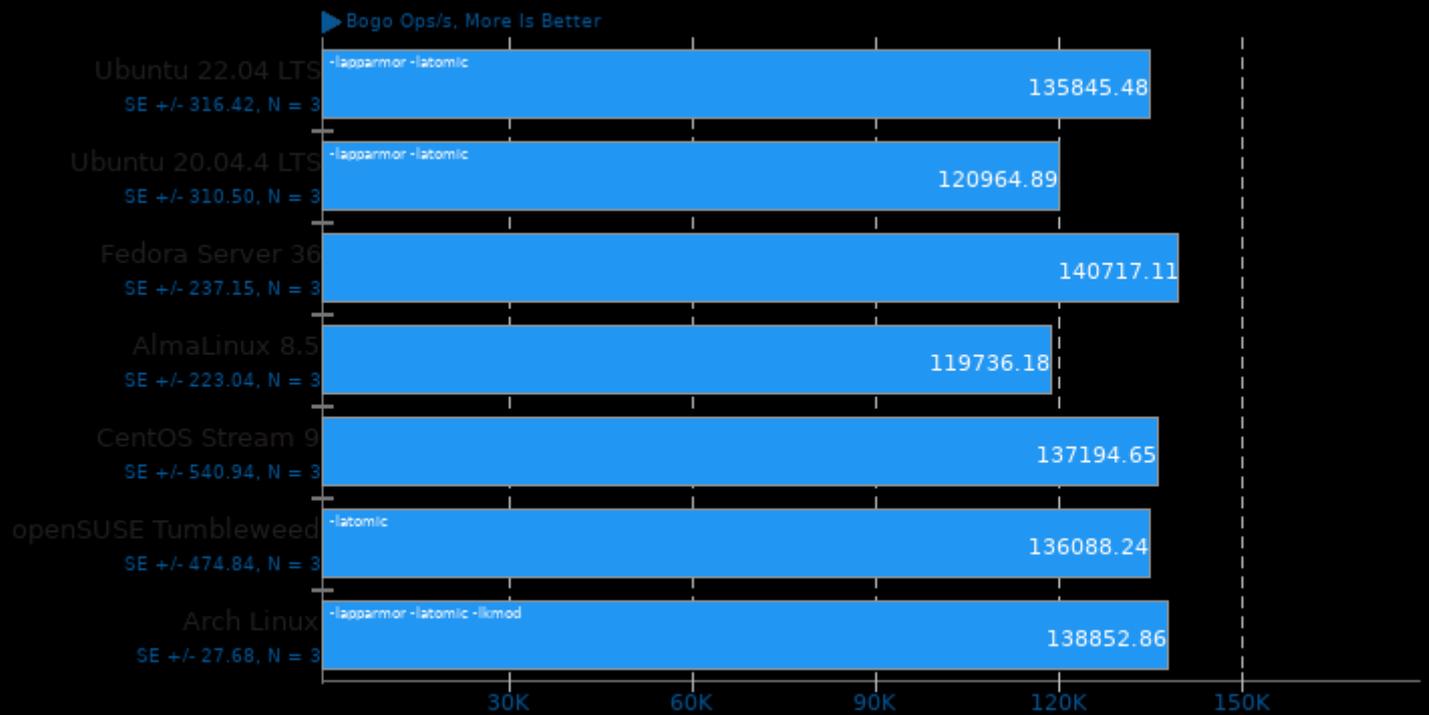
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

## Stress-NG 0.14

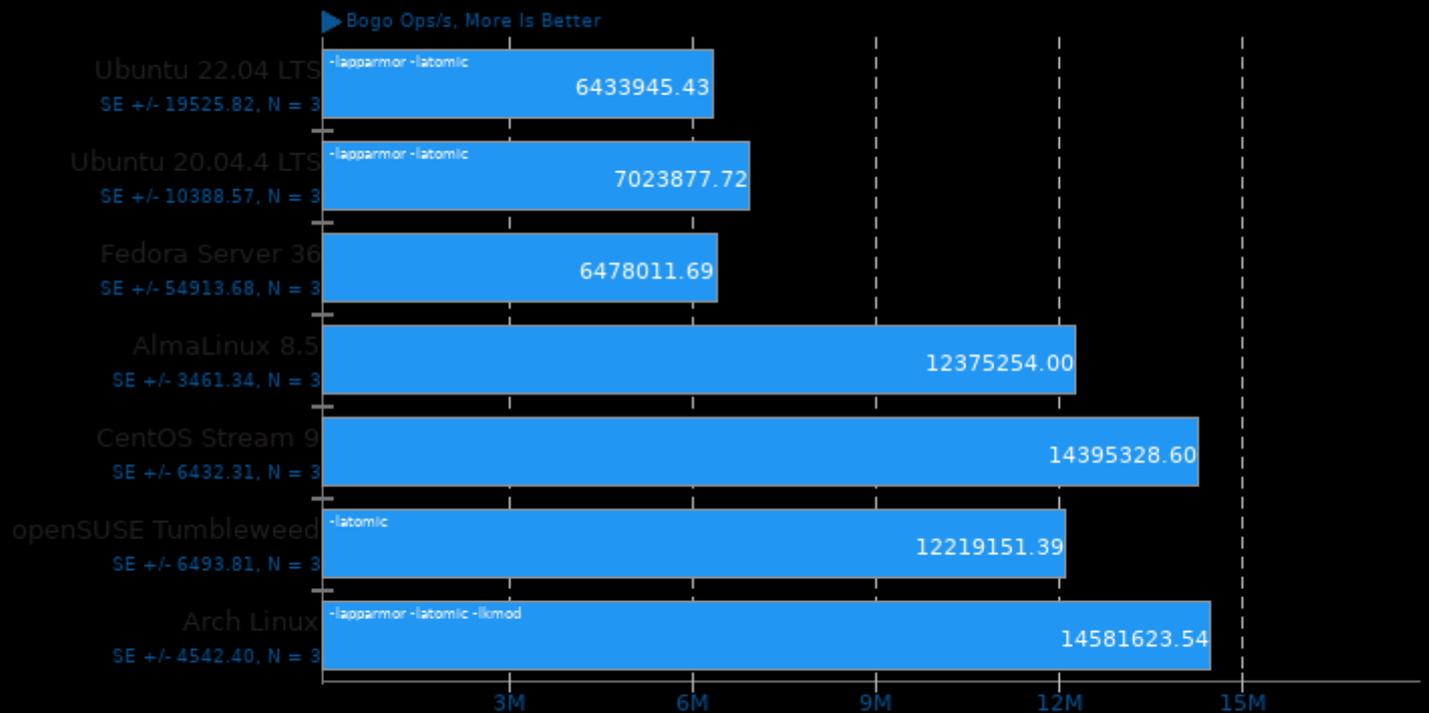
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

## Stress-NG 0.14

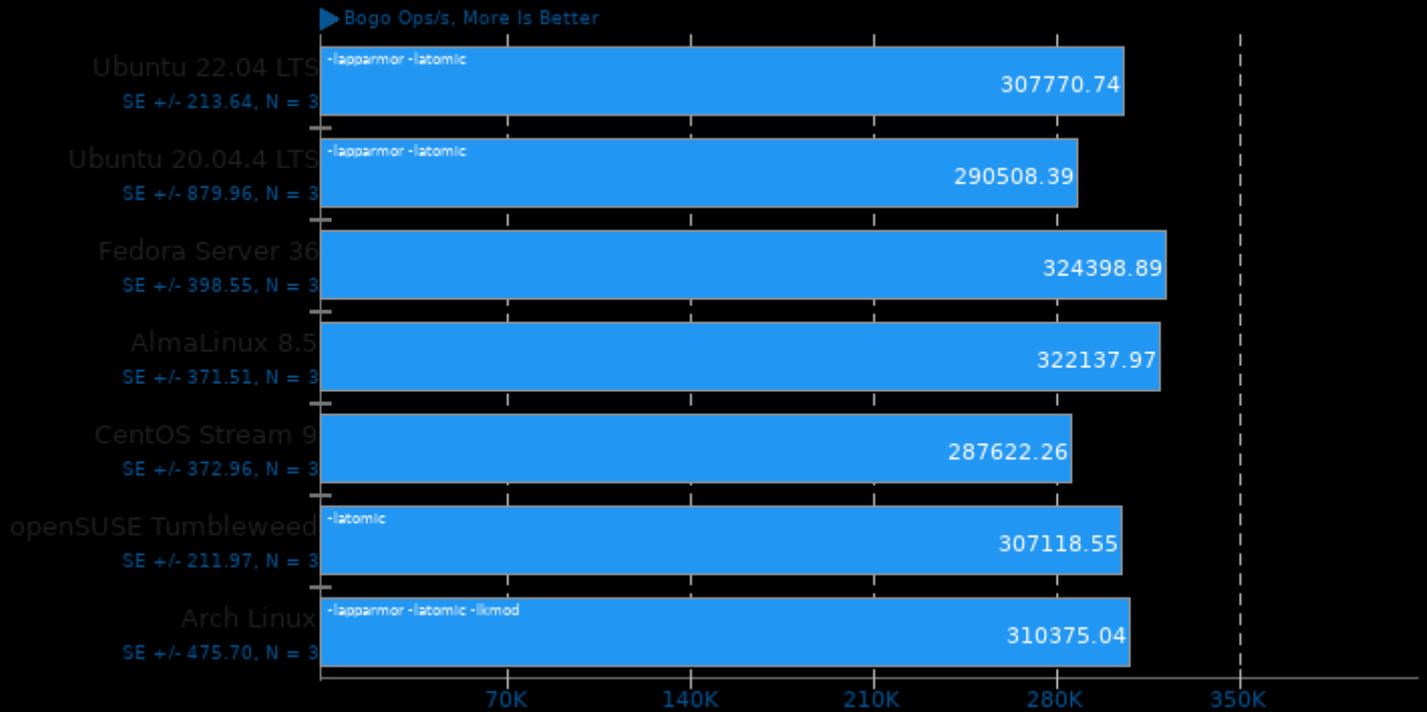
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

## Stress-NG 0.14

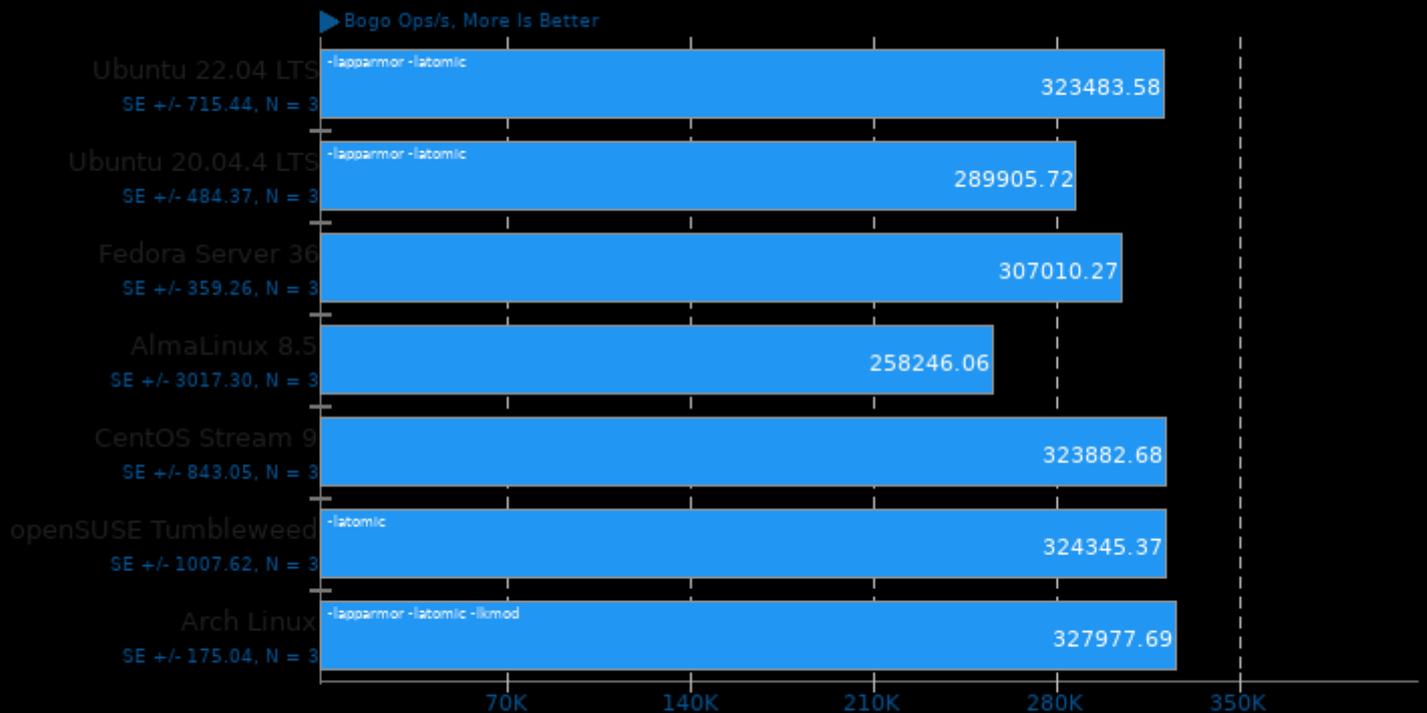
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

## Stress-NG 0.14

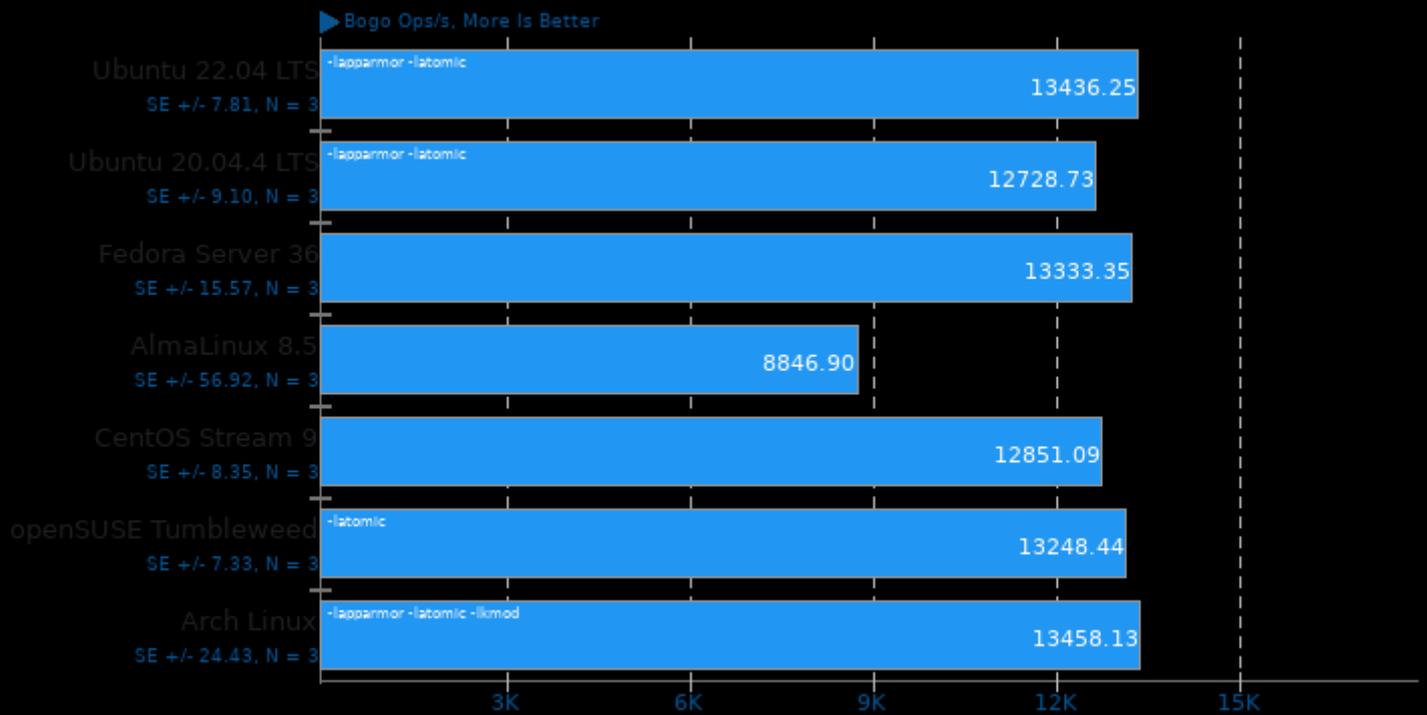
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

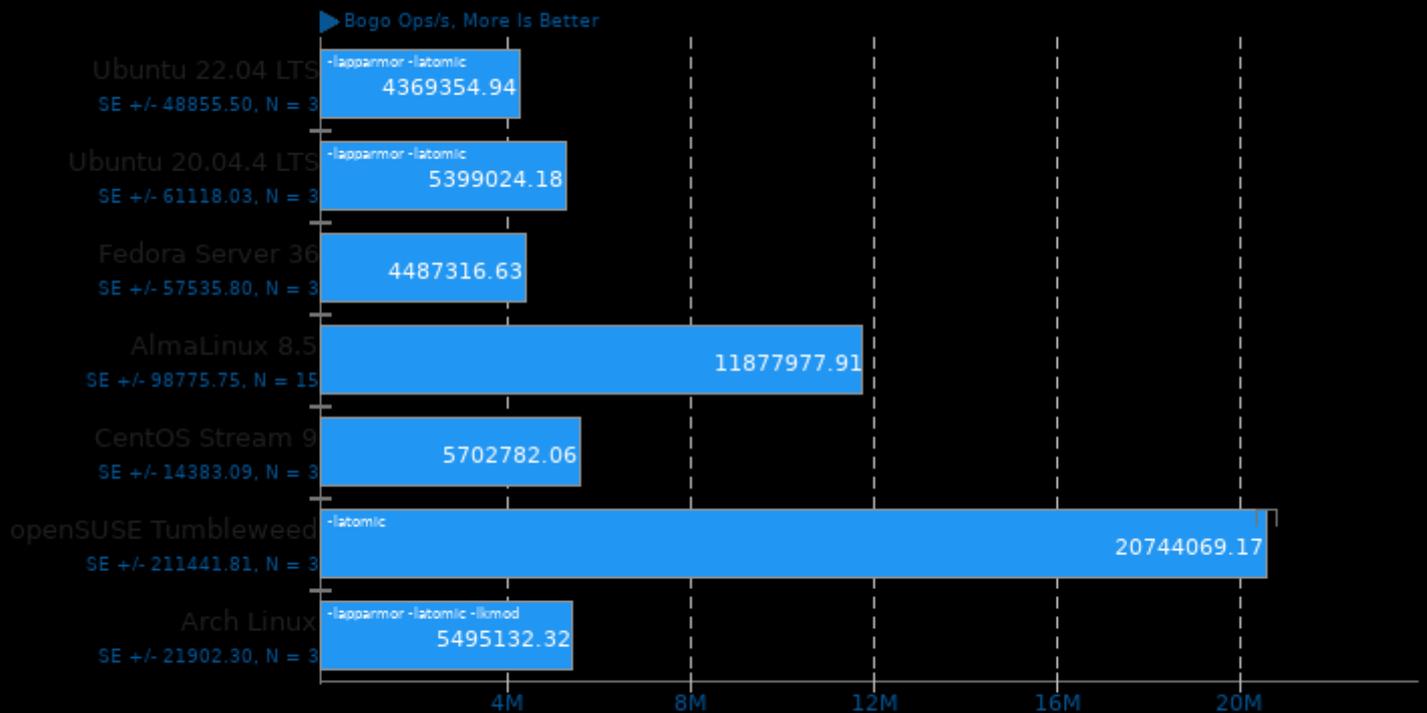
## Stress-NG 0.14

Test: Memory Copying



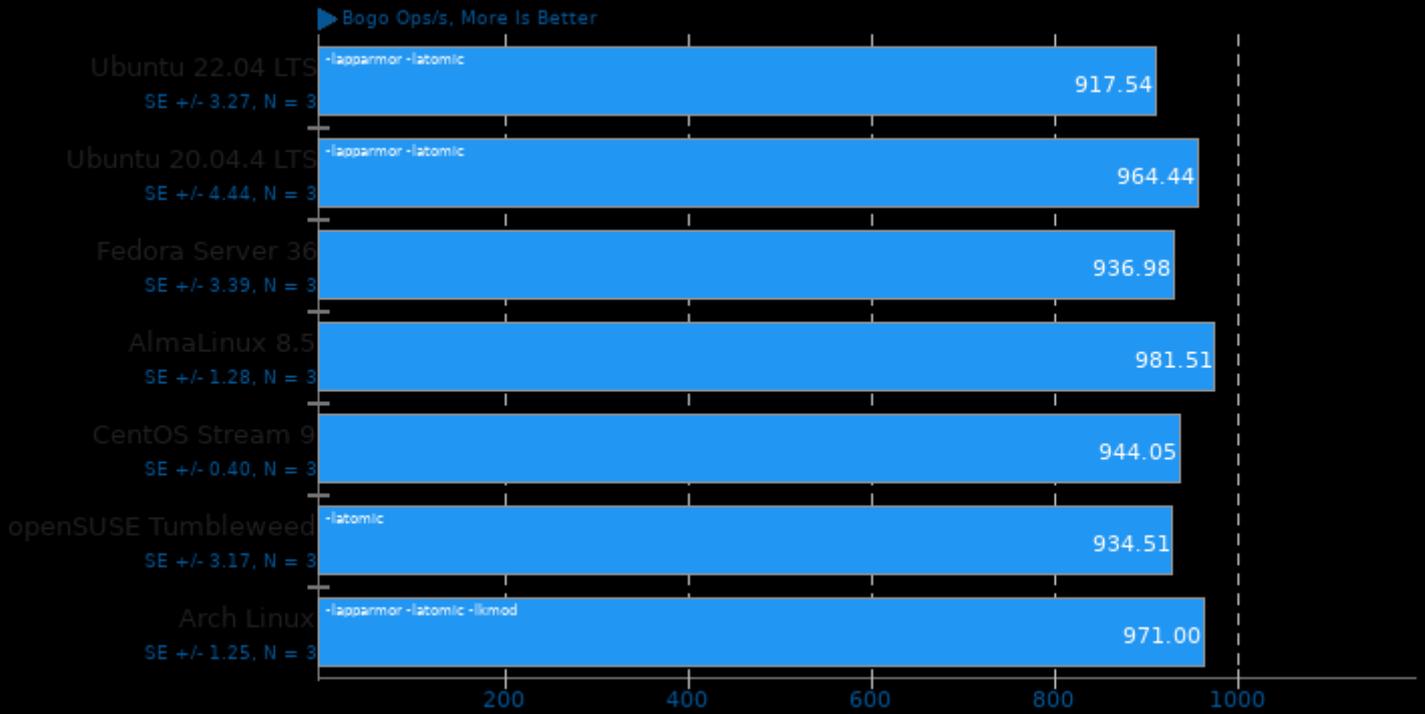
## Stress-NG 0.14

Test: Context Switching



### Stress-NG 0.14

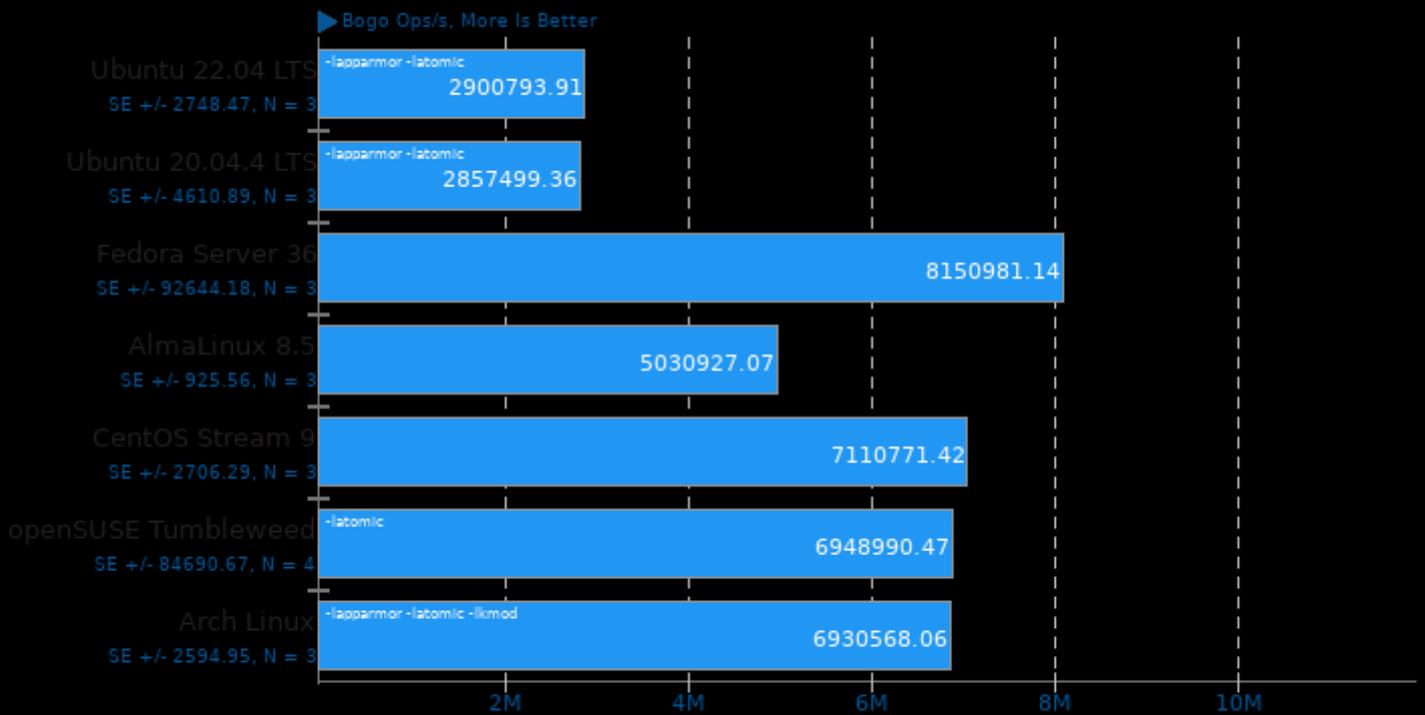
Test: Glibc Qsort Data Sorting



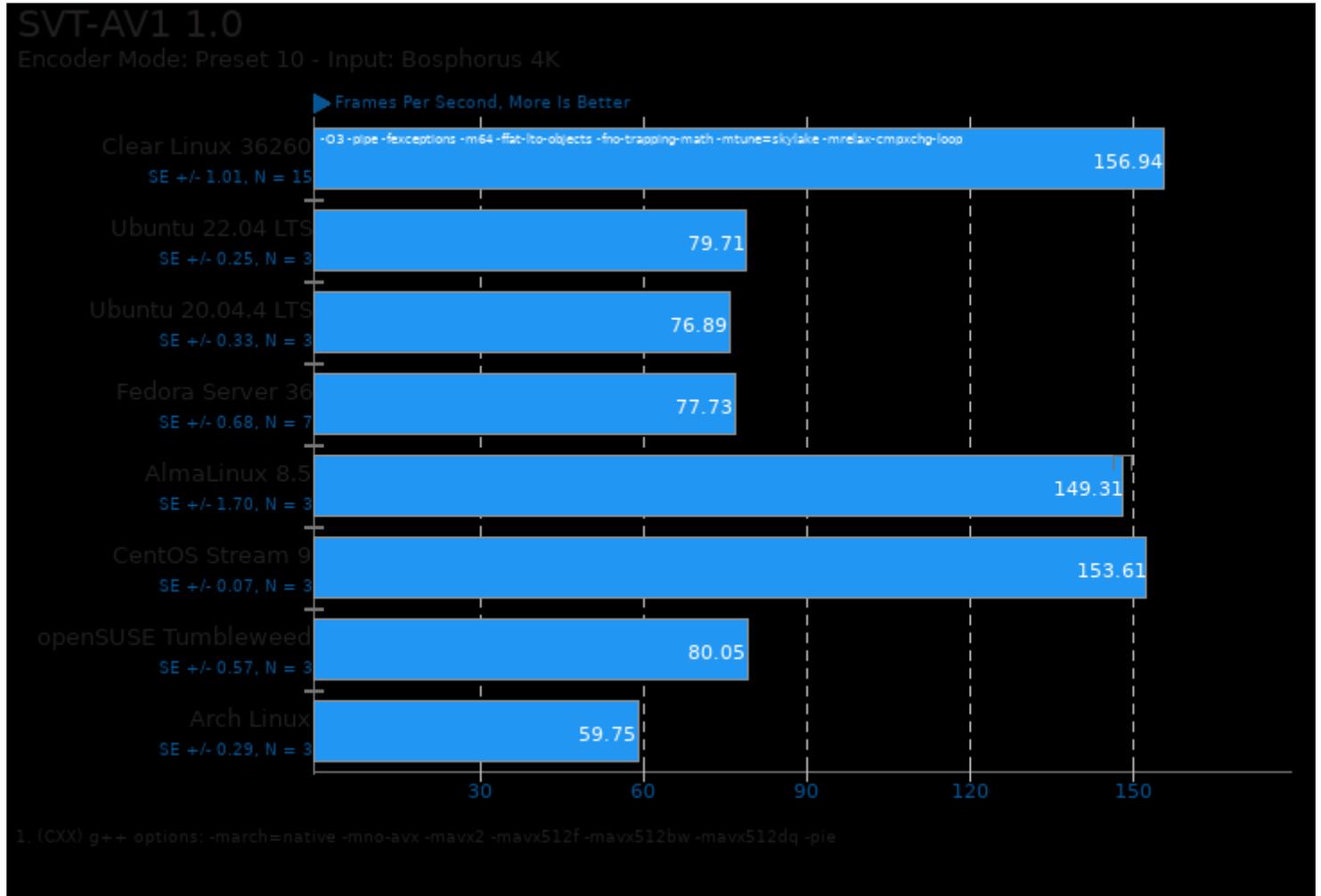
1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

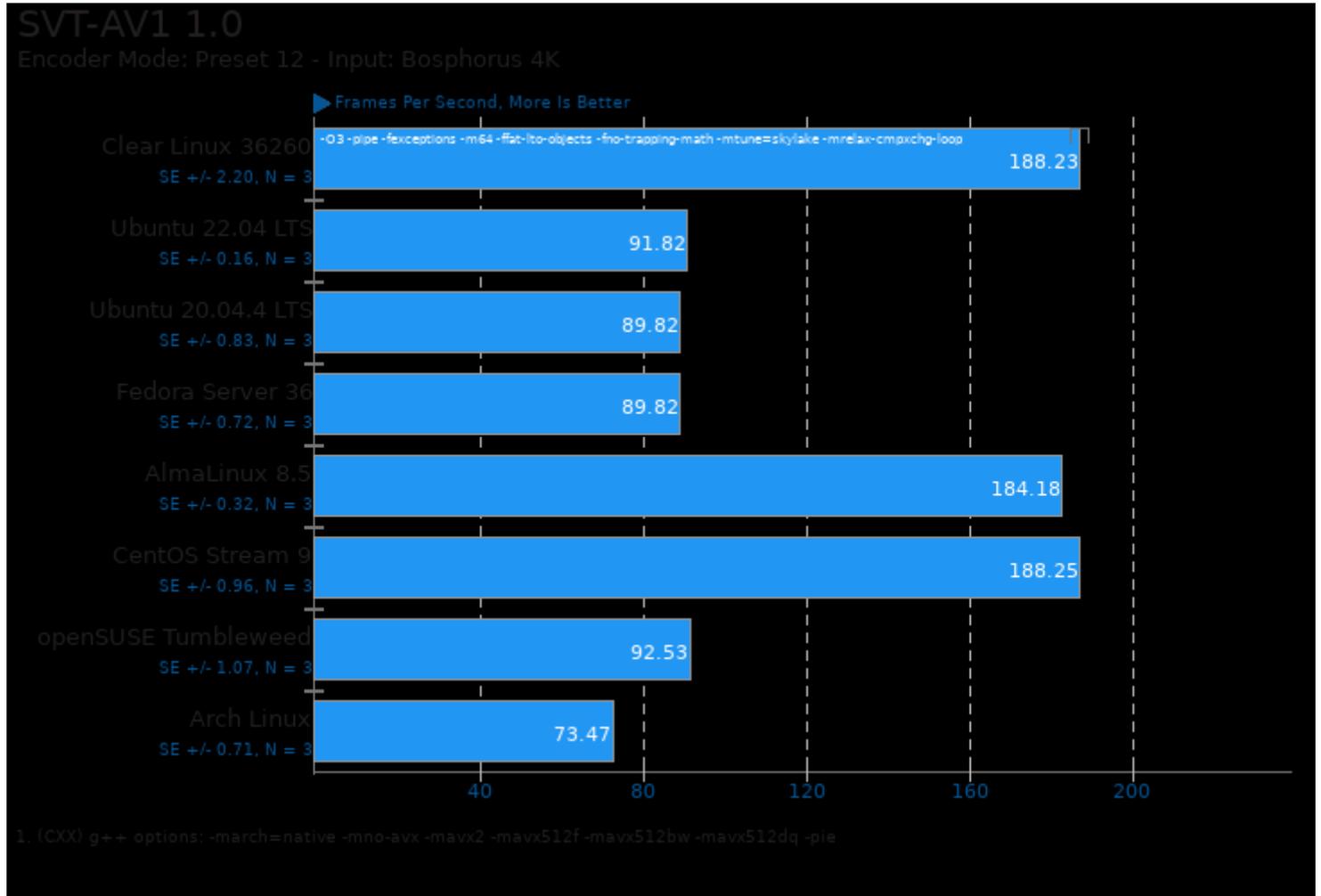
### Stress-NG 0.14

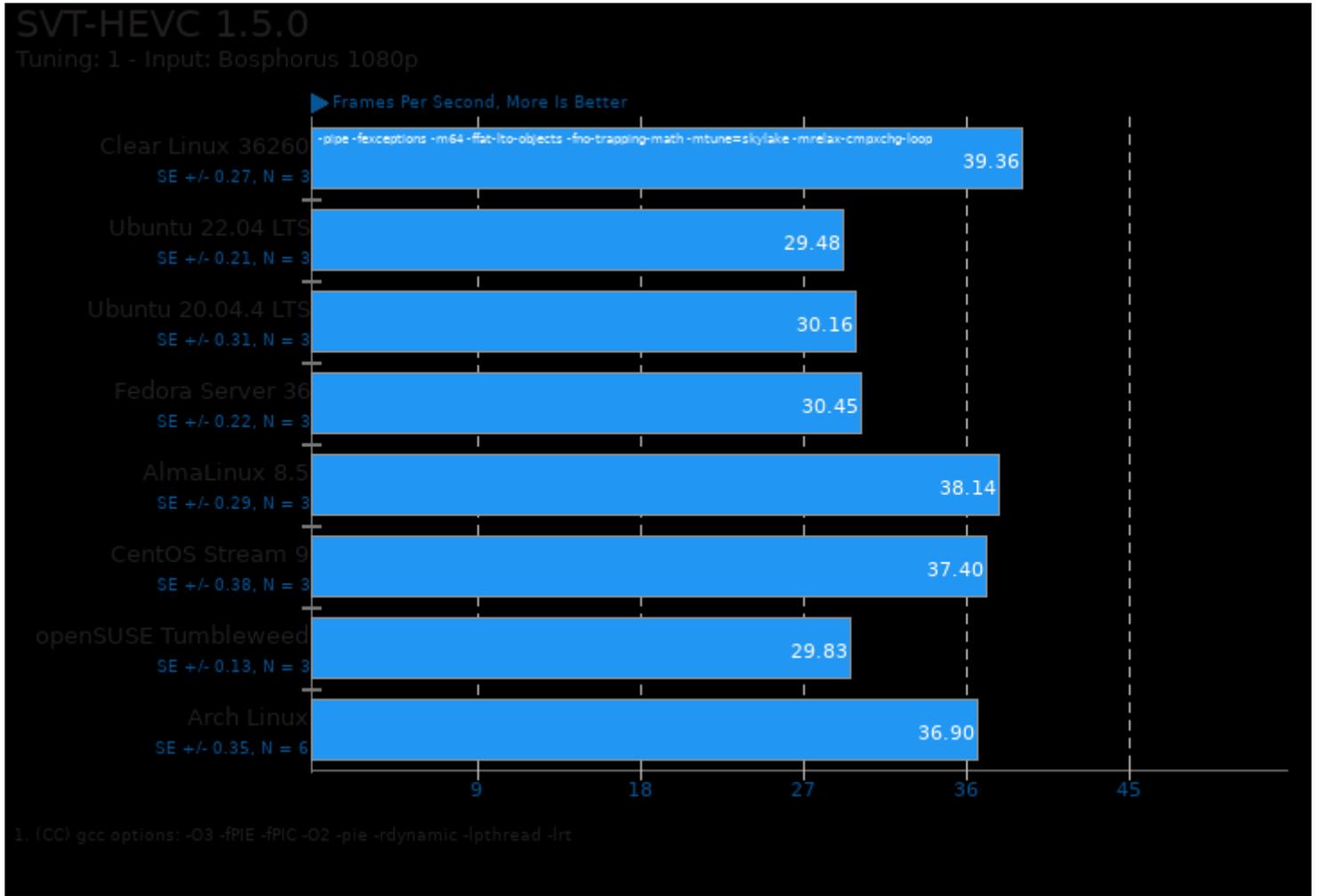
Test: System V Message Passing

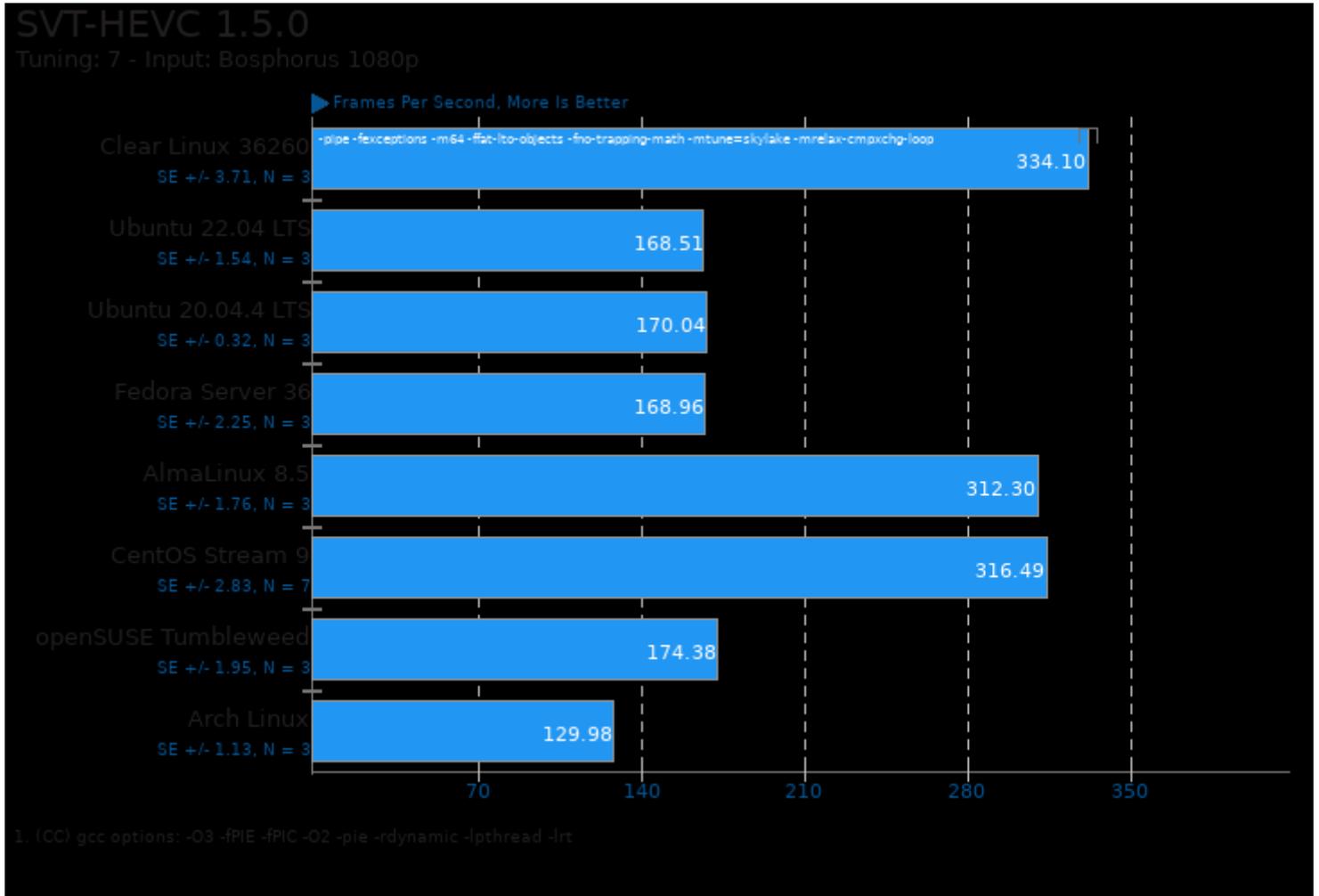


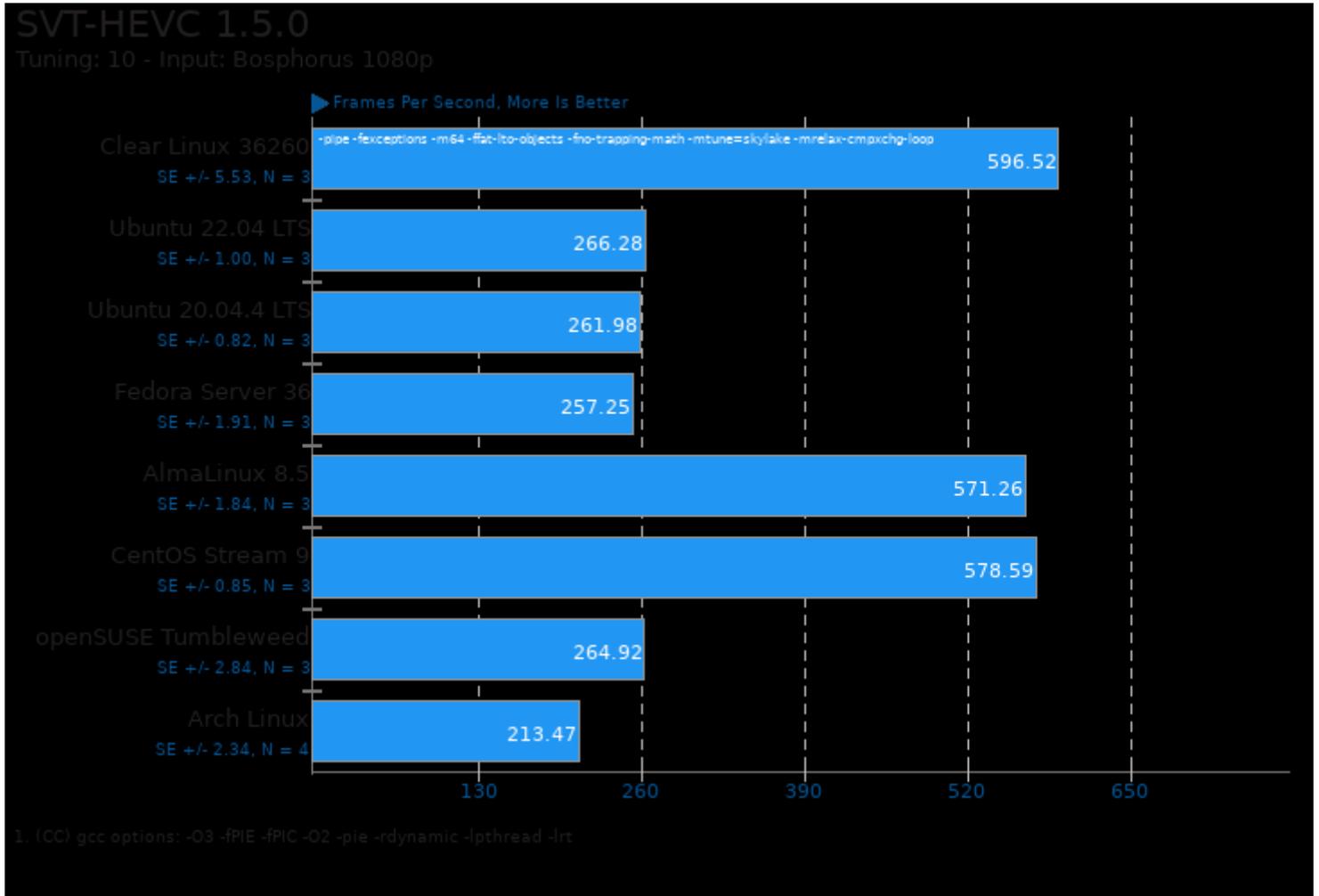
1. (CC) gcc options: -O2 -std=gnu99 -lm -lc -lcrypt -ldl -ljpeg -lrt -lz -pthread

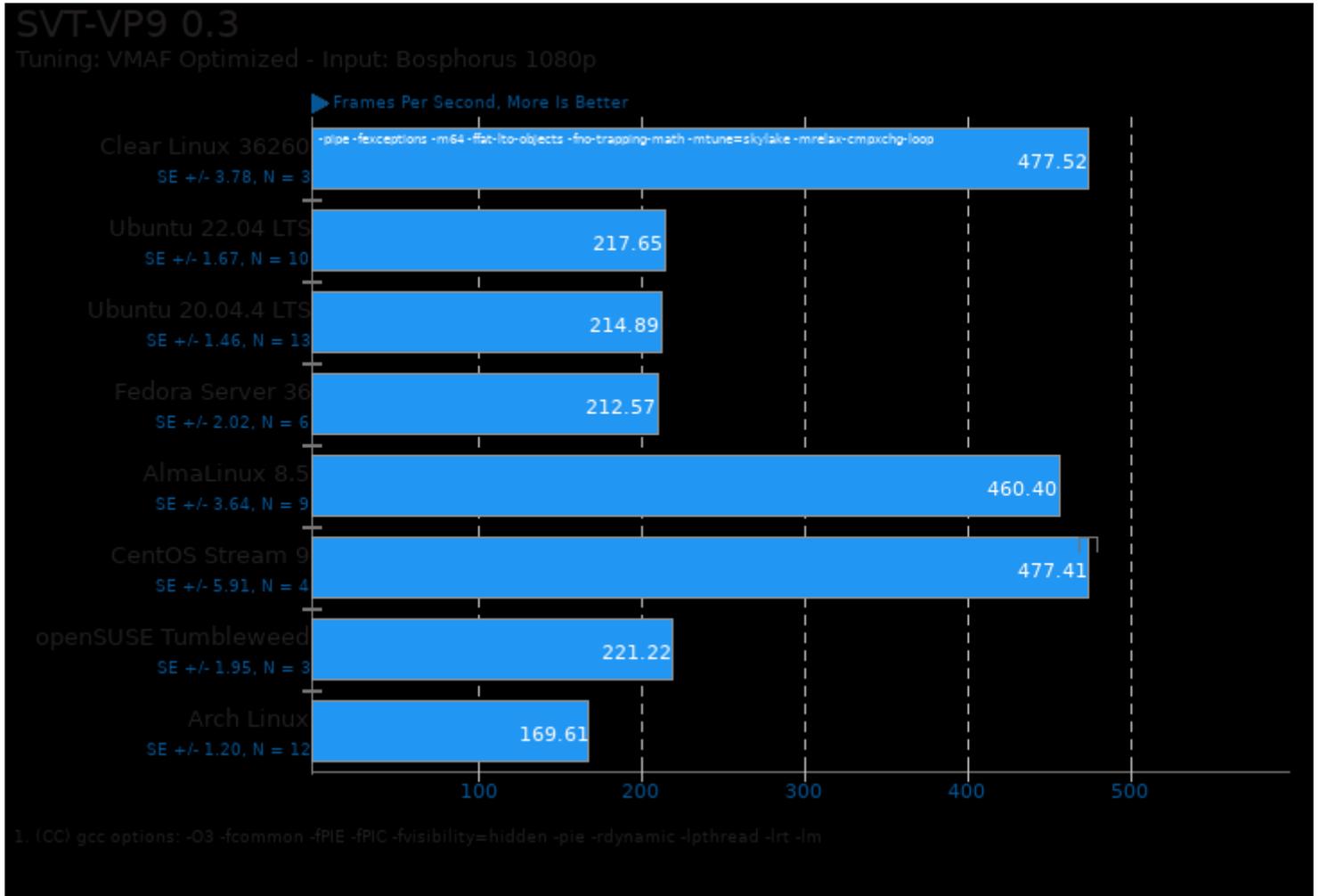






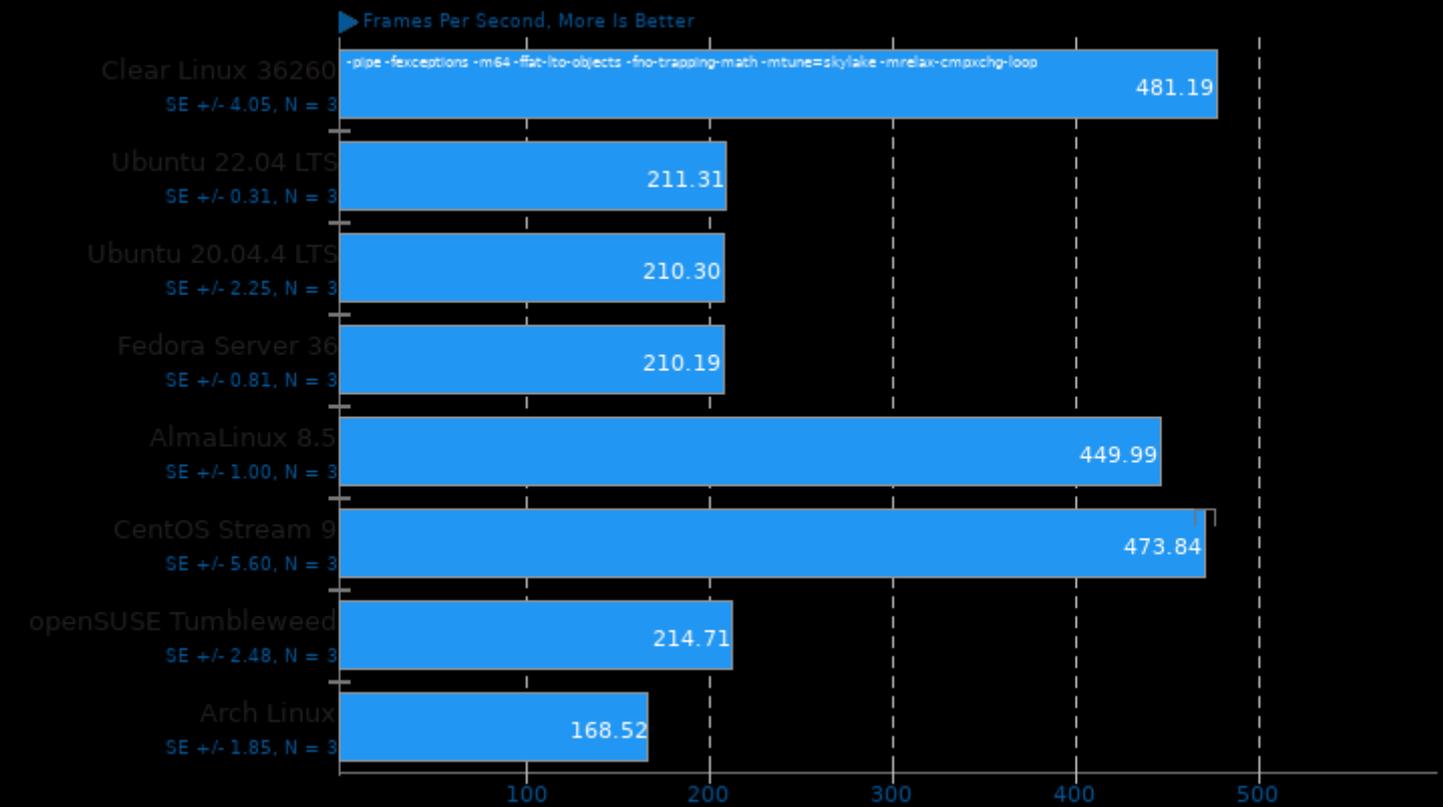




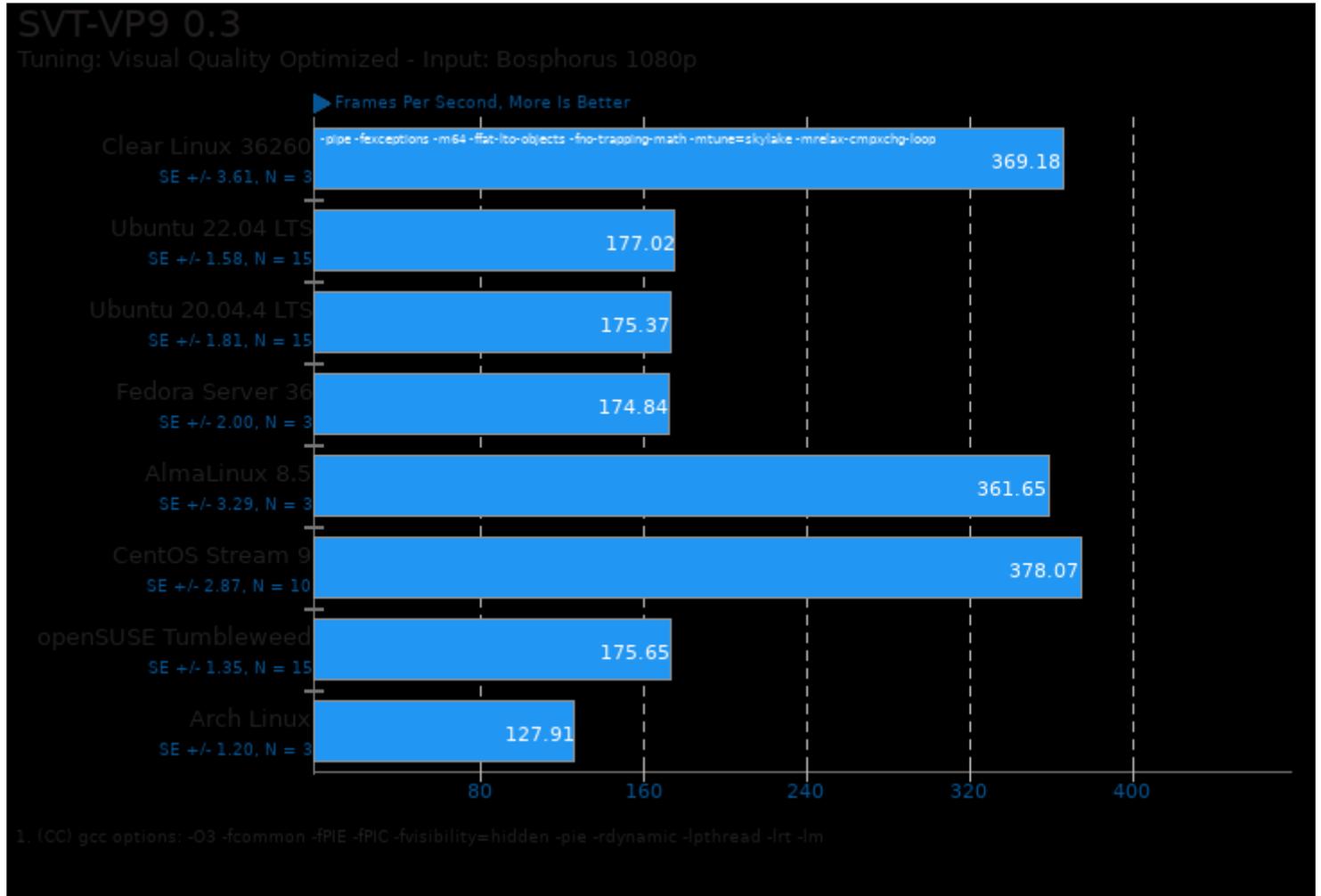


## SVT-VP9 0.3

Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p

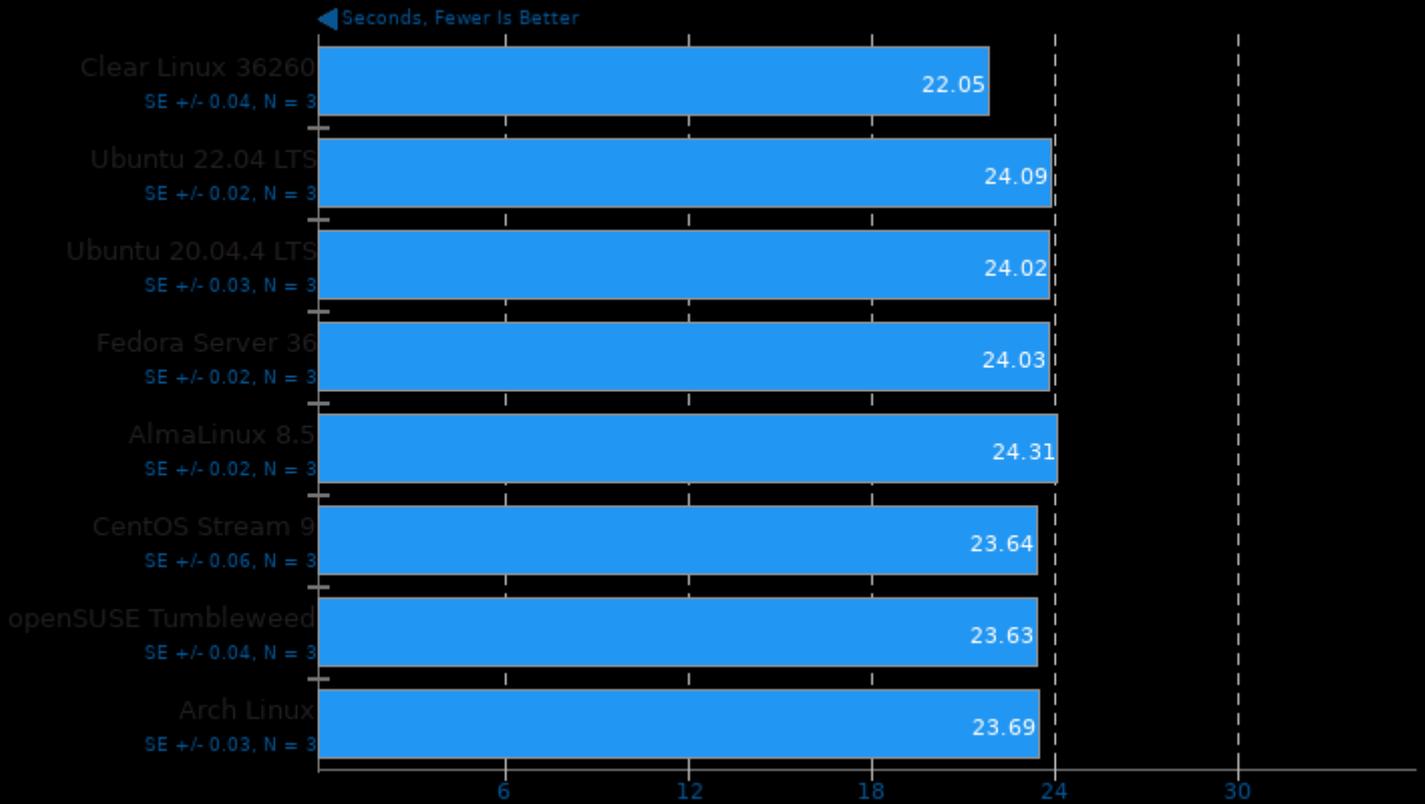


1. (GCC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm



## Tachyon 0.99.2

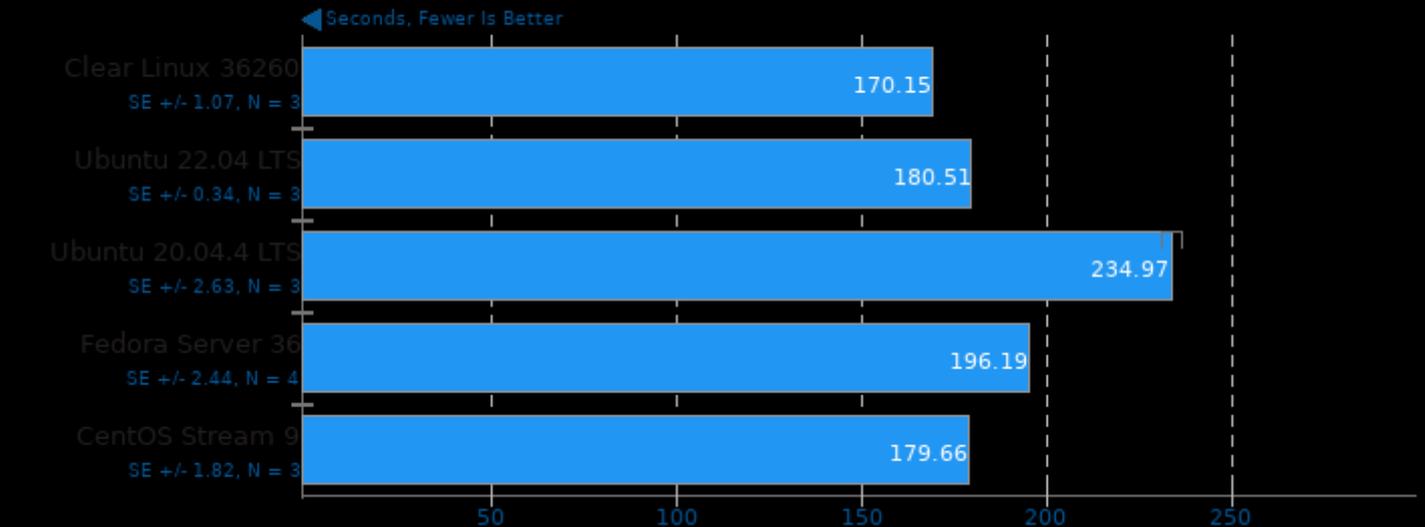
Total Time

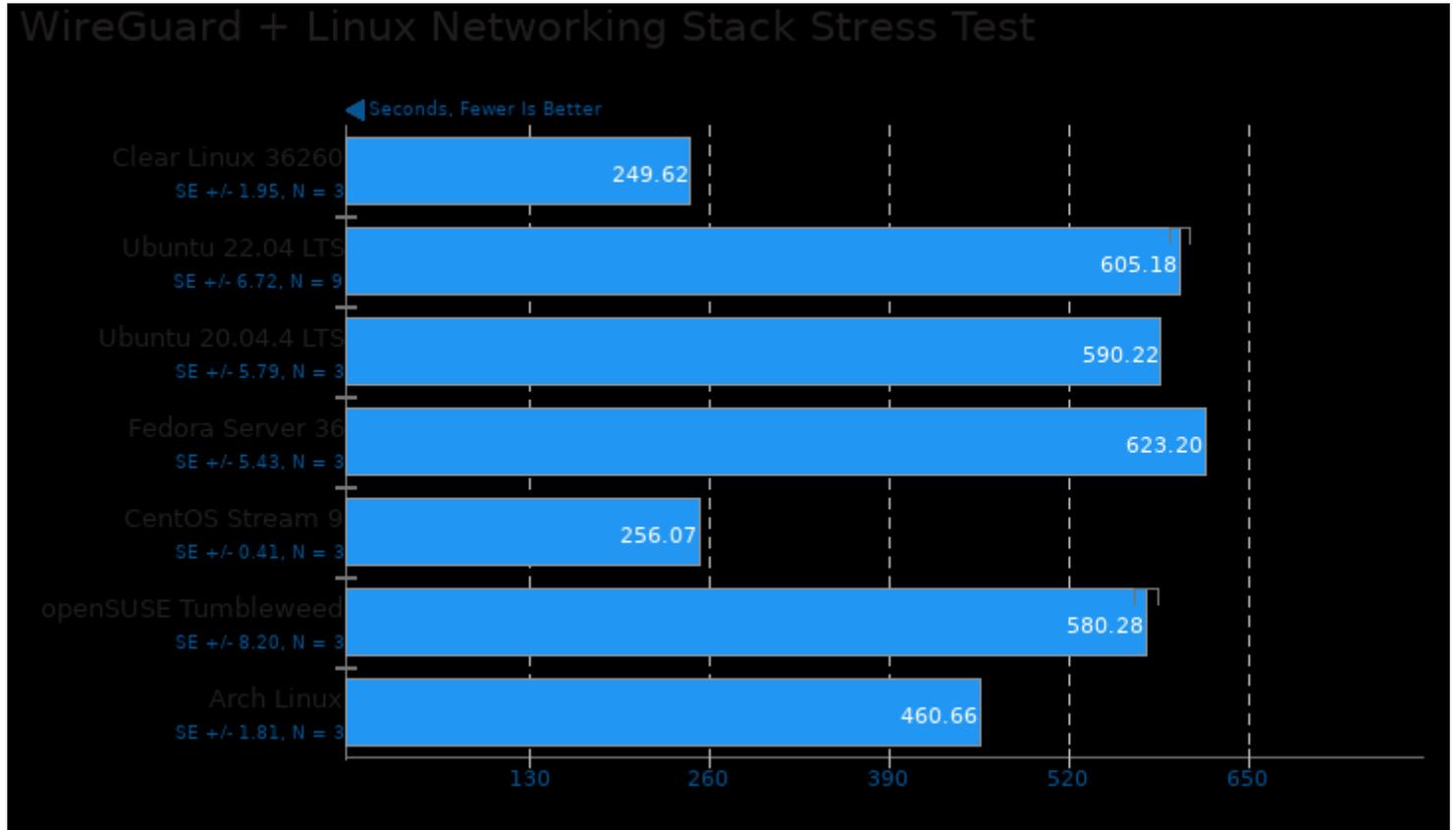


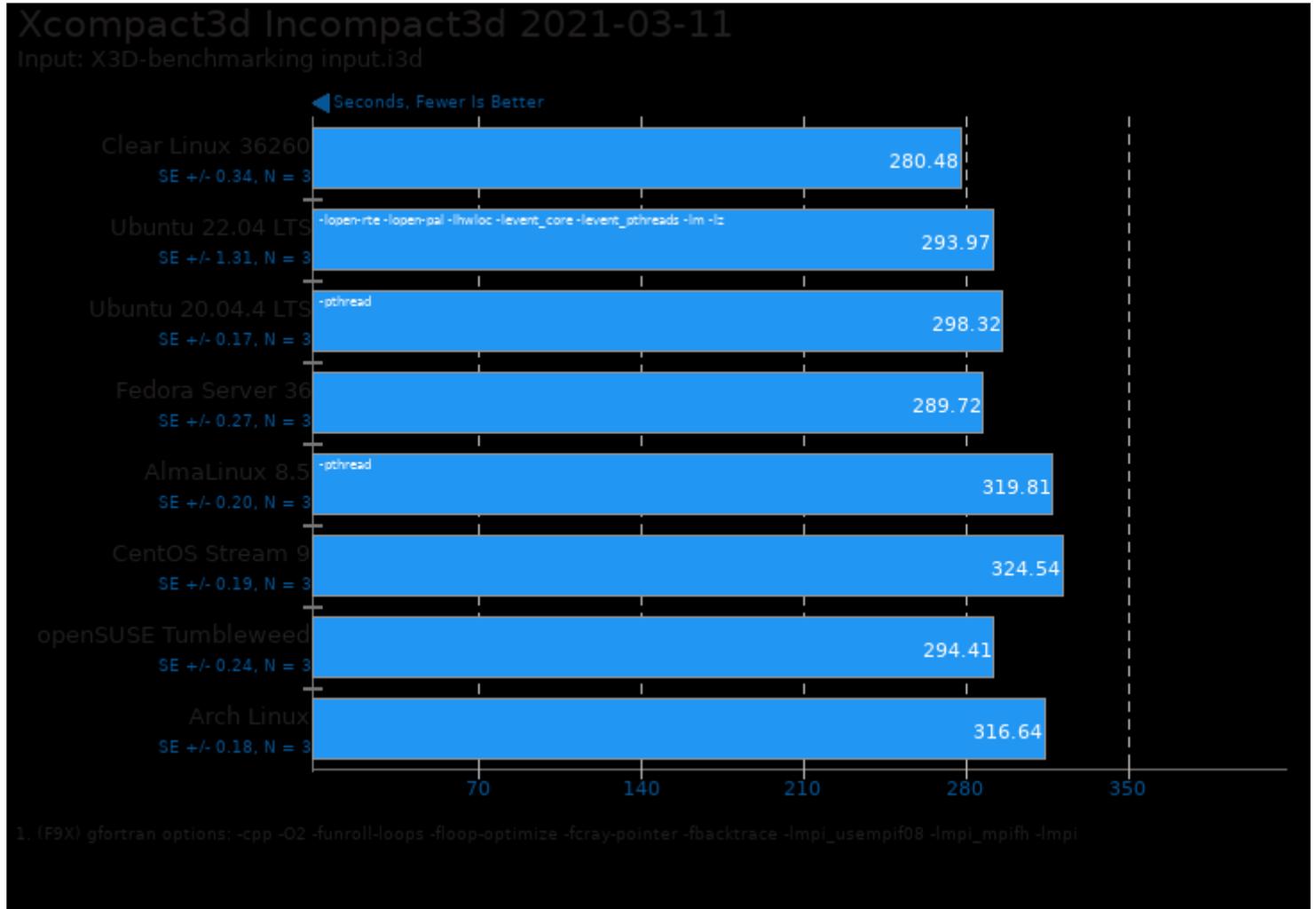
1. (CC) gcc options: -m64 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

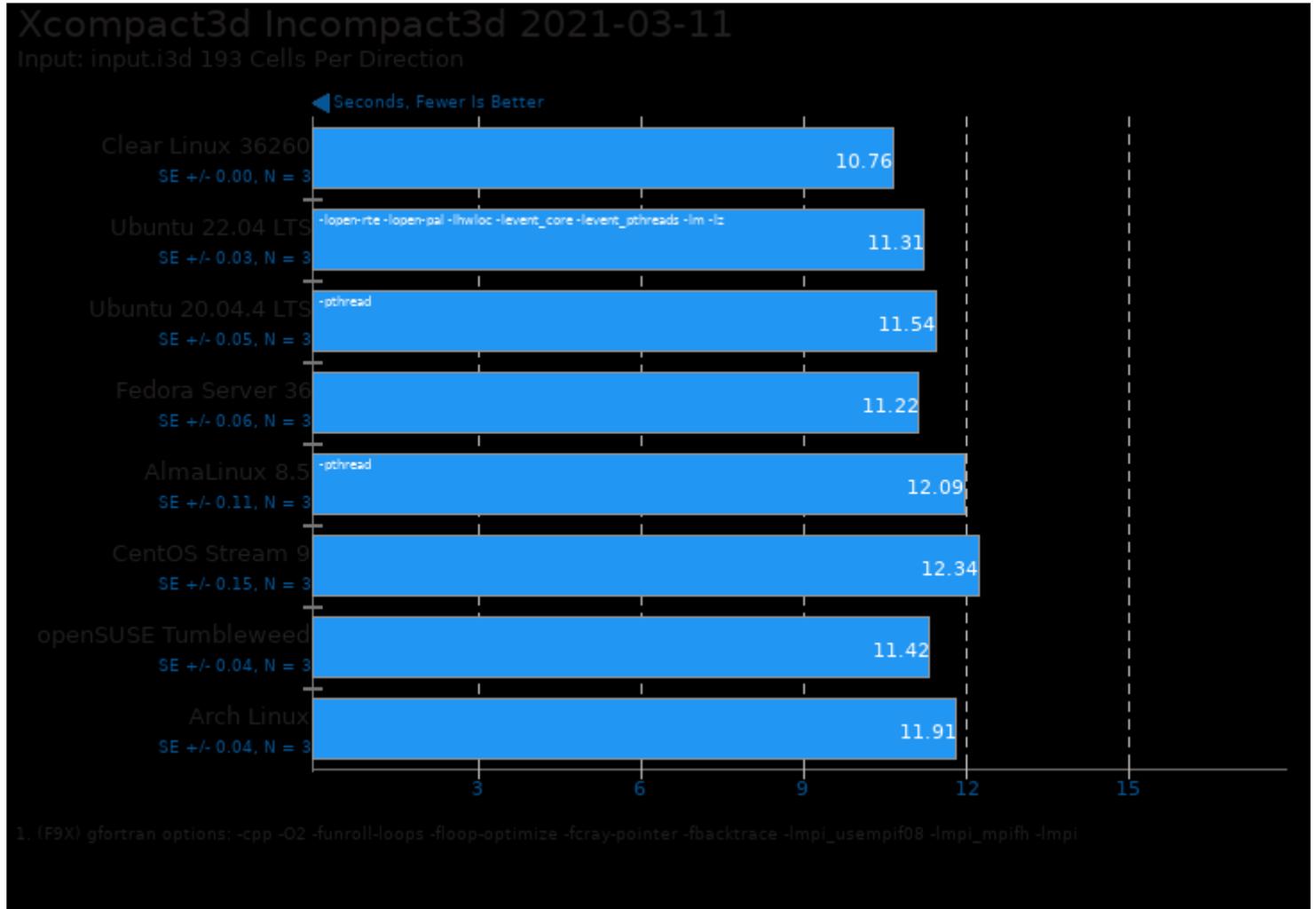
## Timed Gem5 Compilation 21.2

Time To Compile



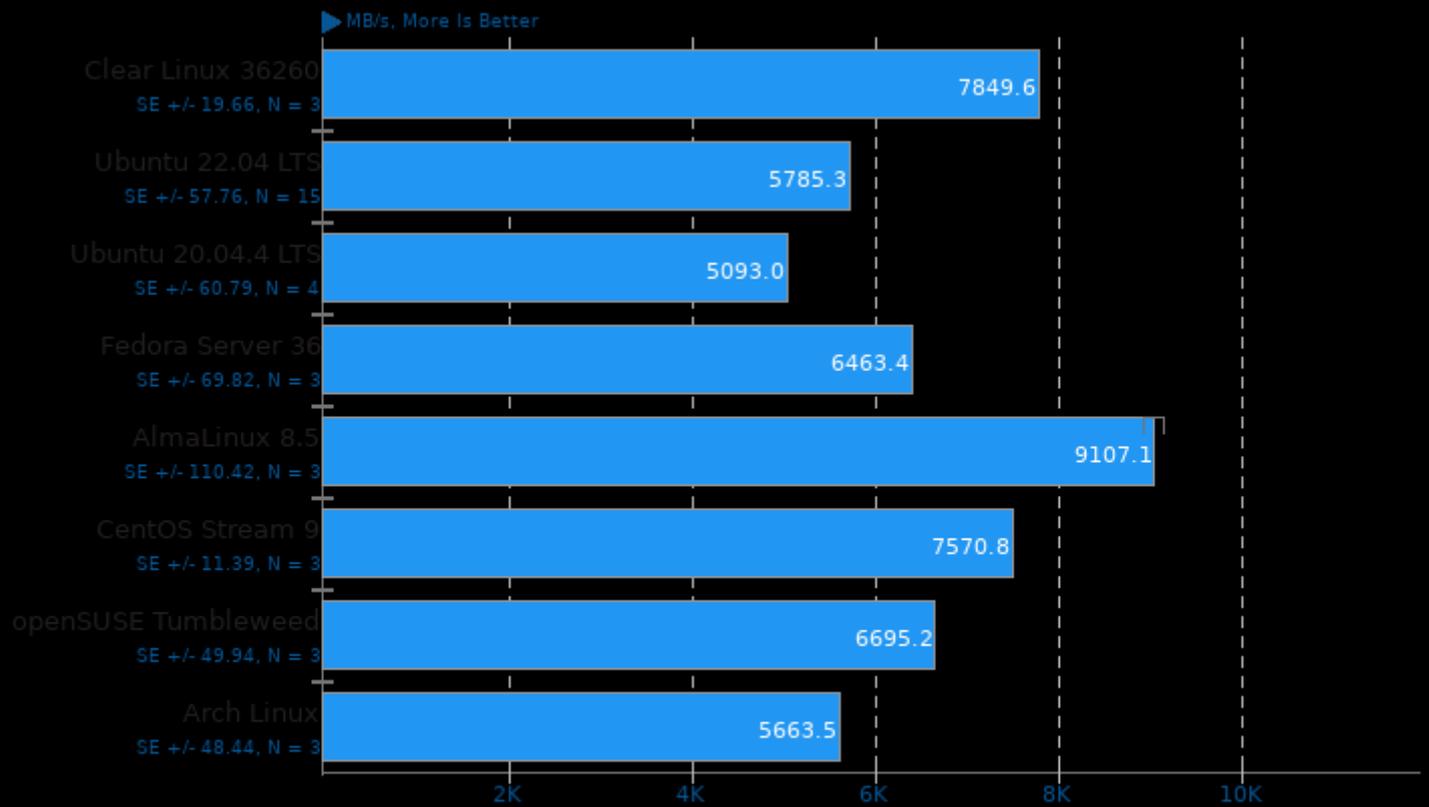






## Zstd Compression

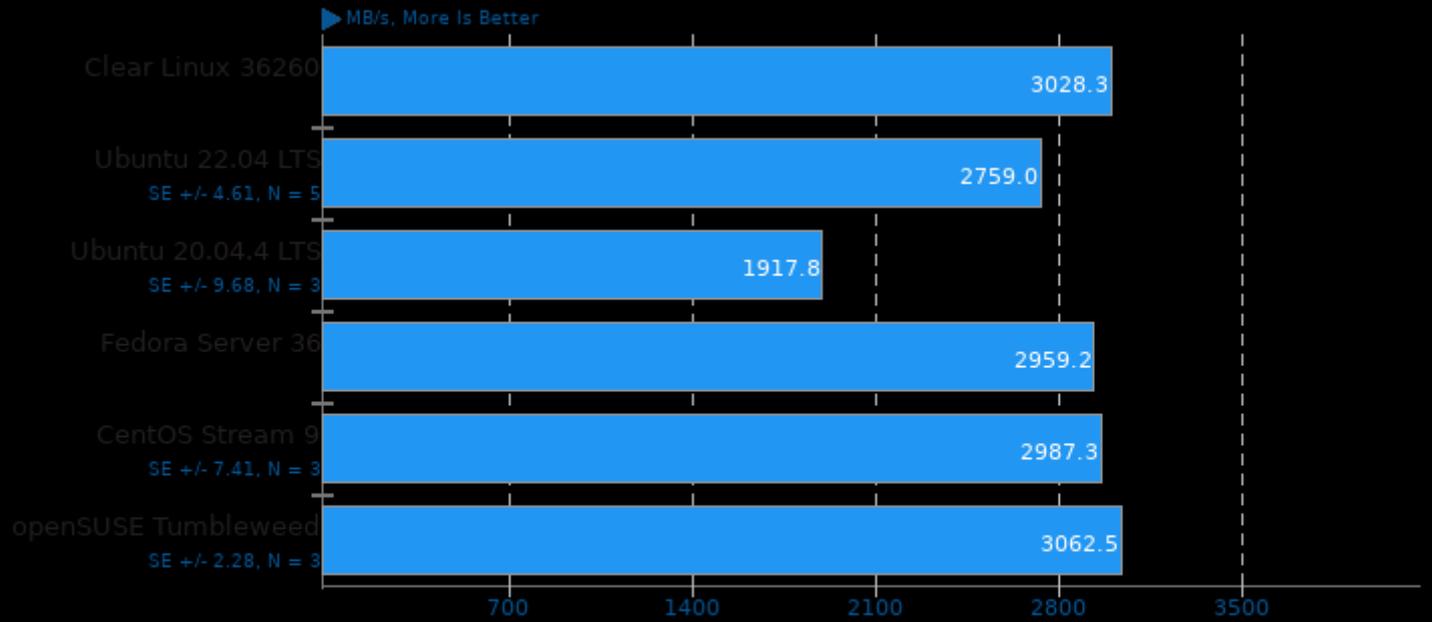
Compression Level: 3 - Compression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

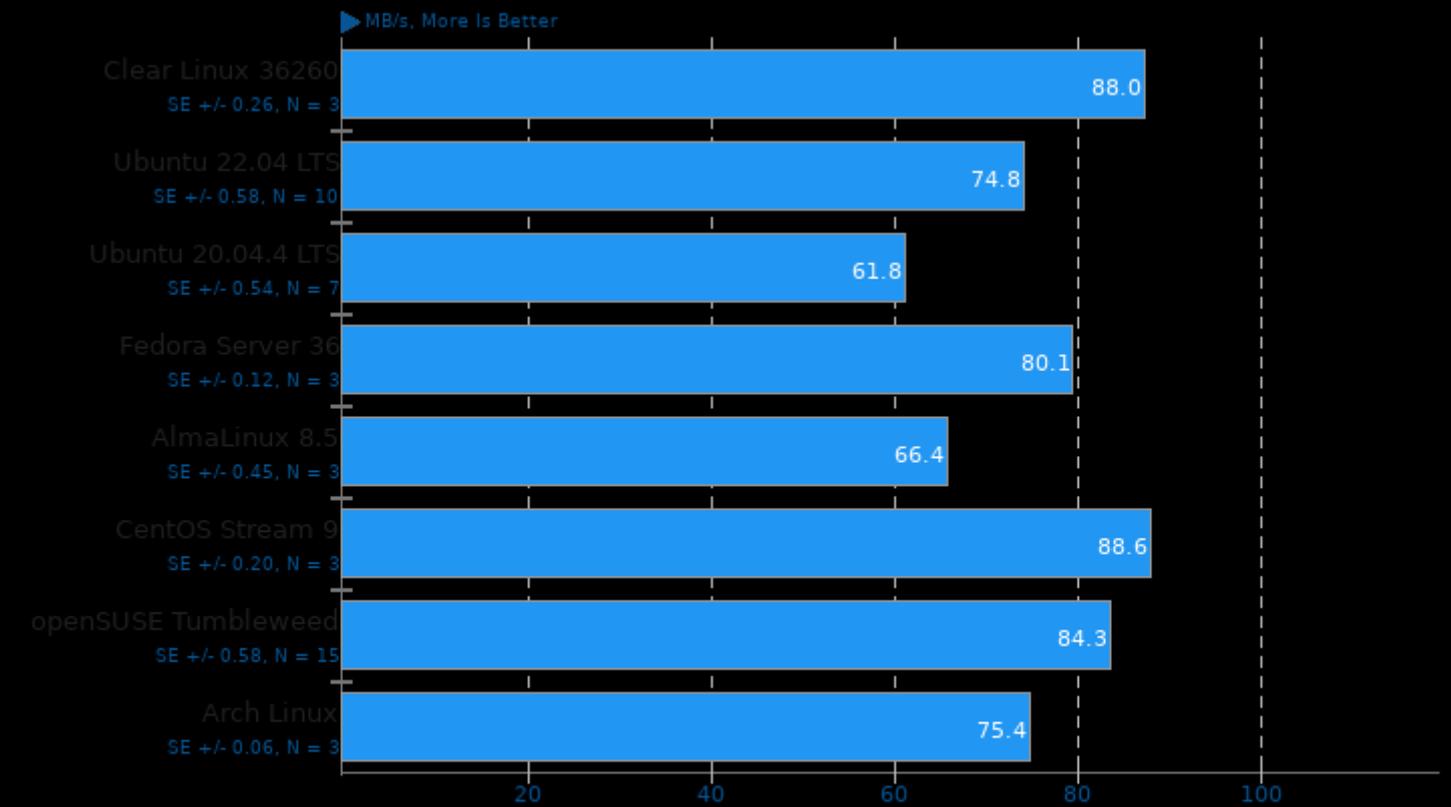
Compression Level: 3 - Decompression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
6. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

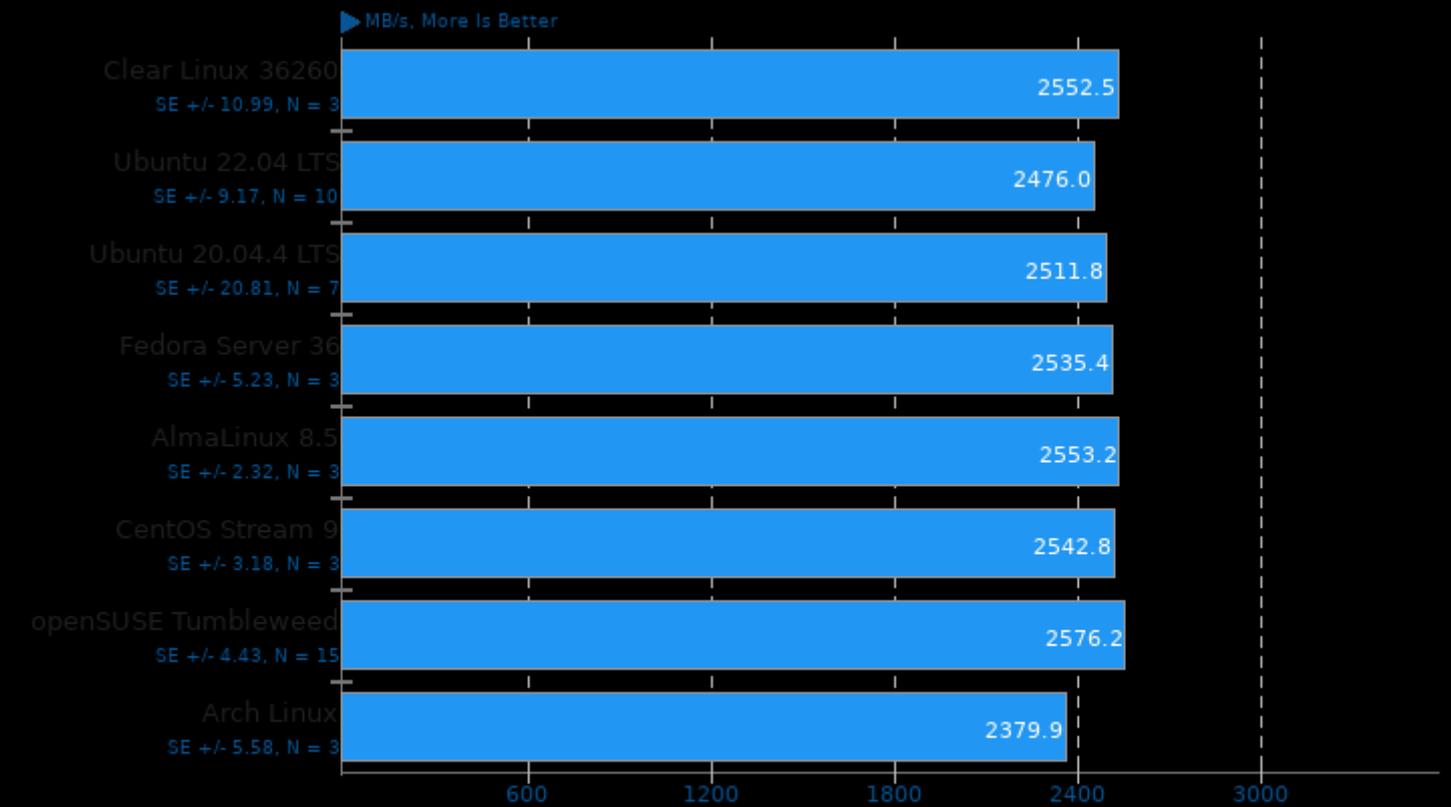
Compression Level: 19 - Compression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

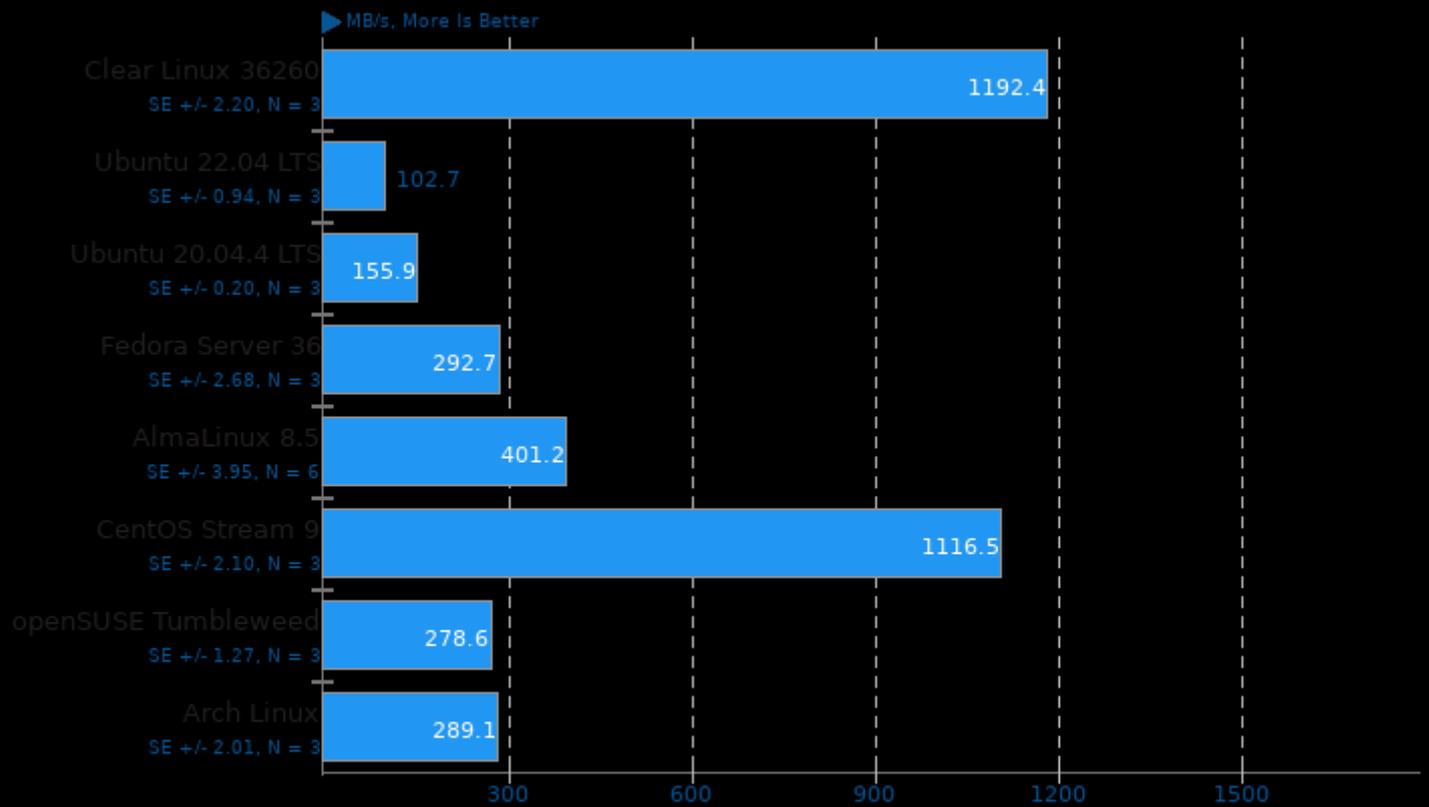
Compression Level: 19 - Decompression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

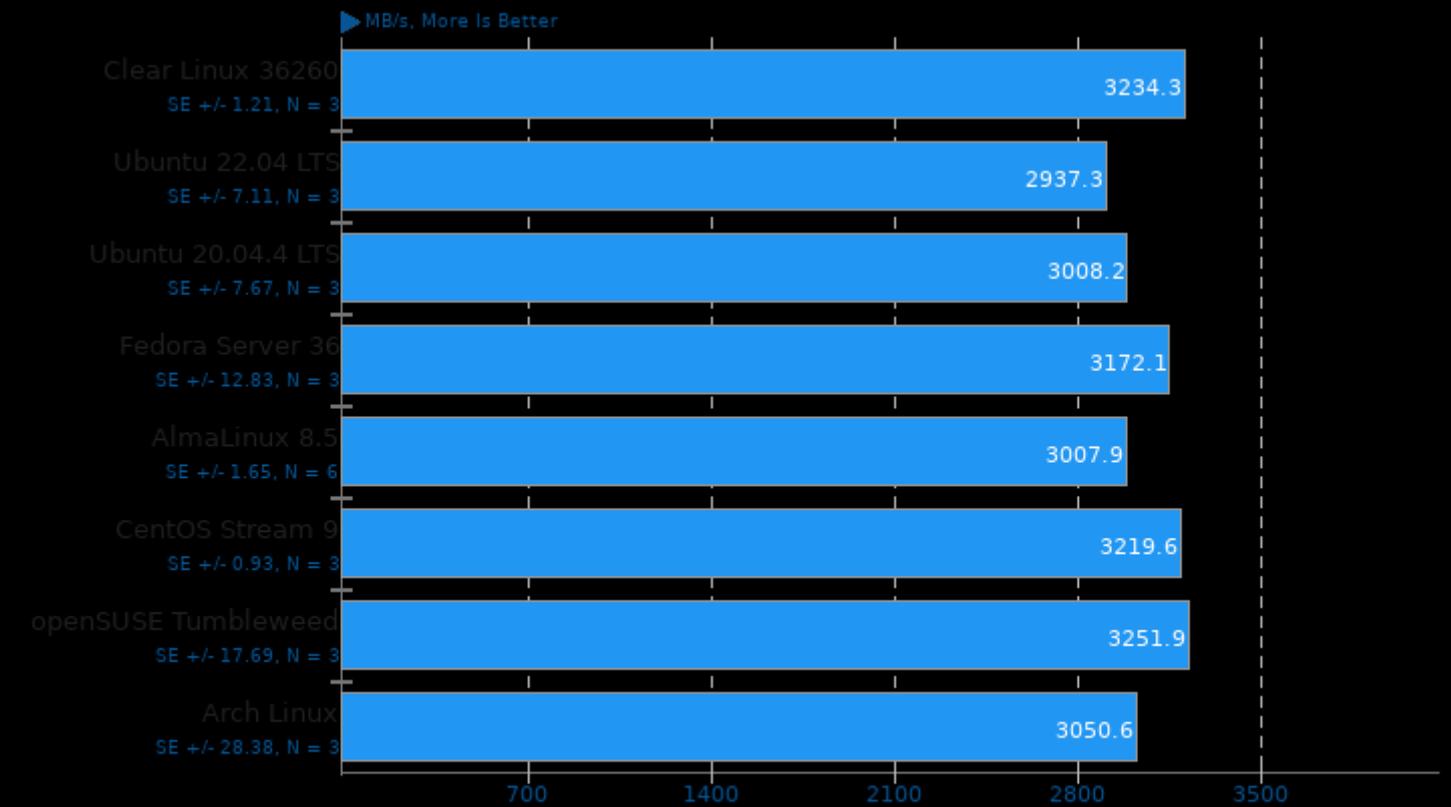
Compression Level: 3, Long Mode - Compression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

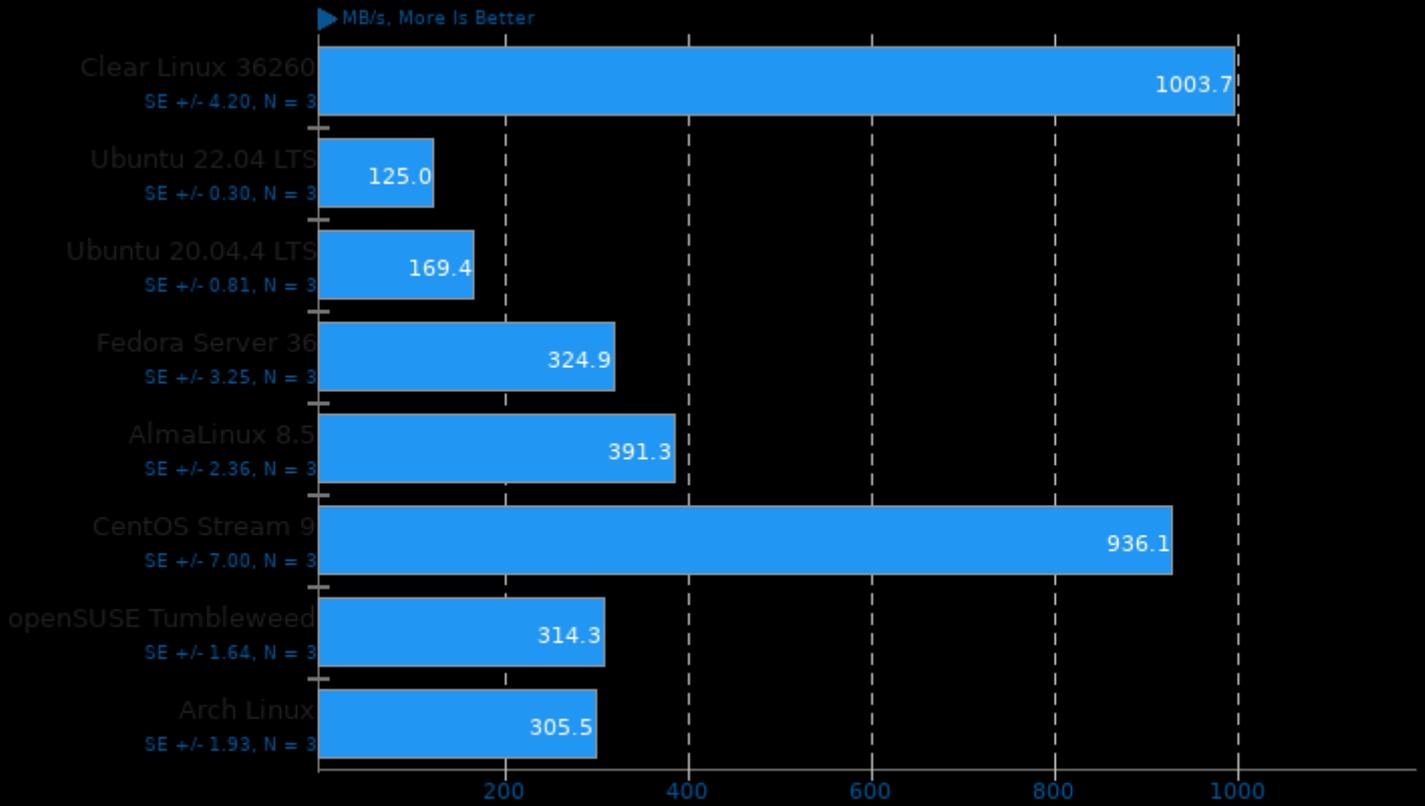
Compression Level: 3, Long Mode - Decompression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

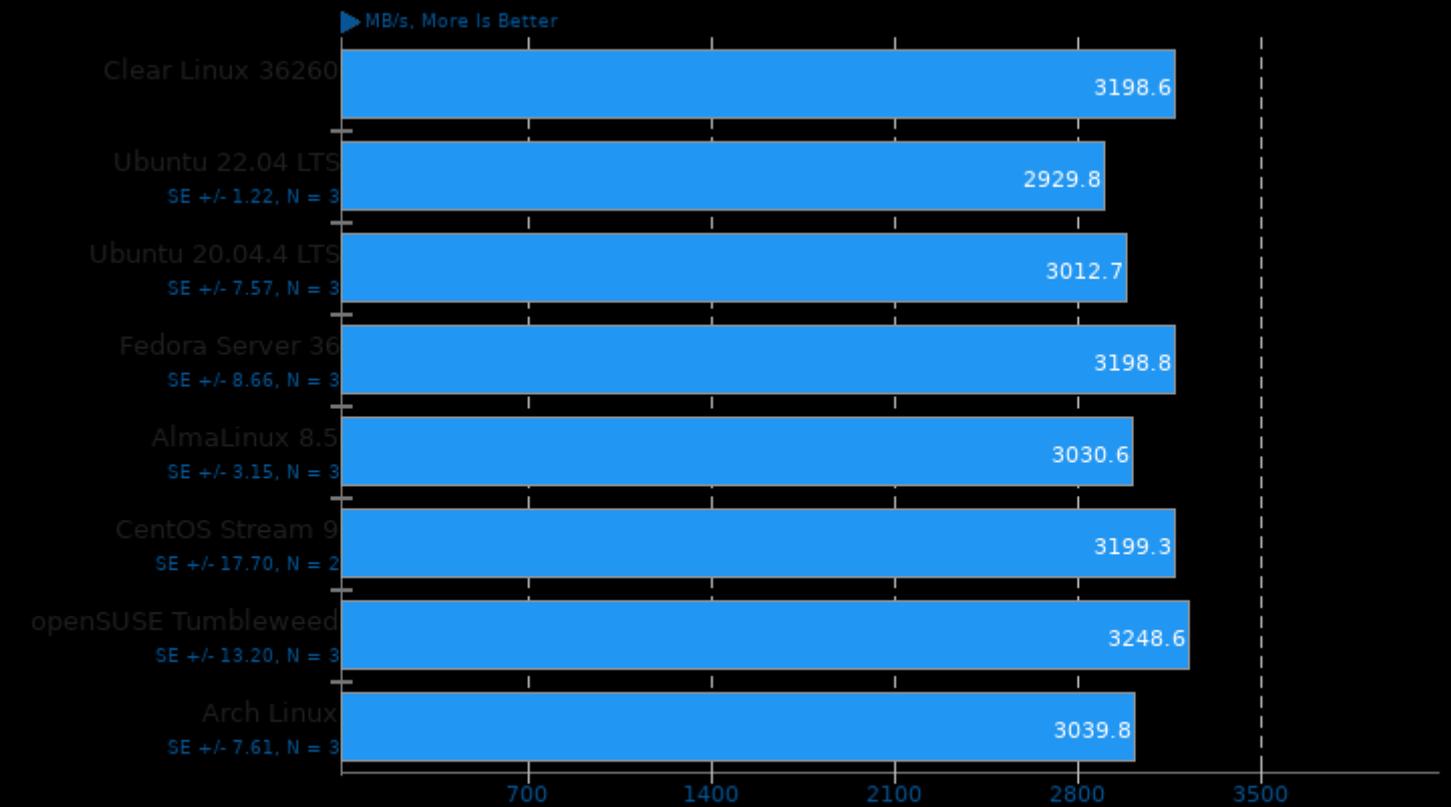
Compression Level: 8, Long Mode - Compression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

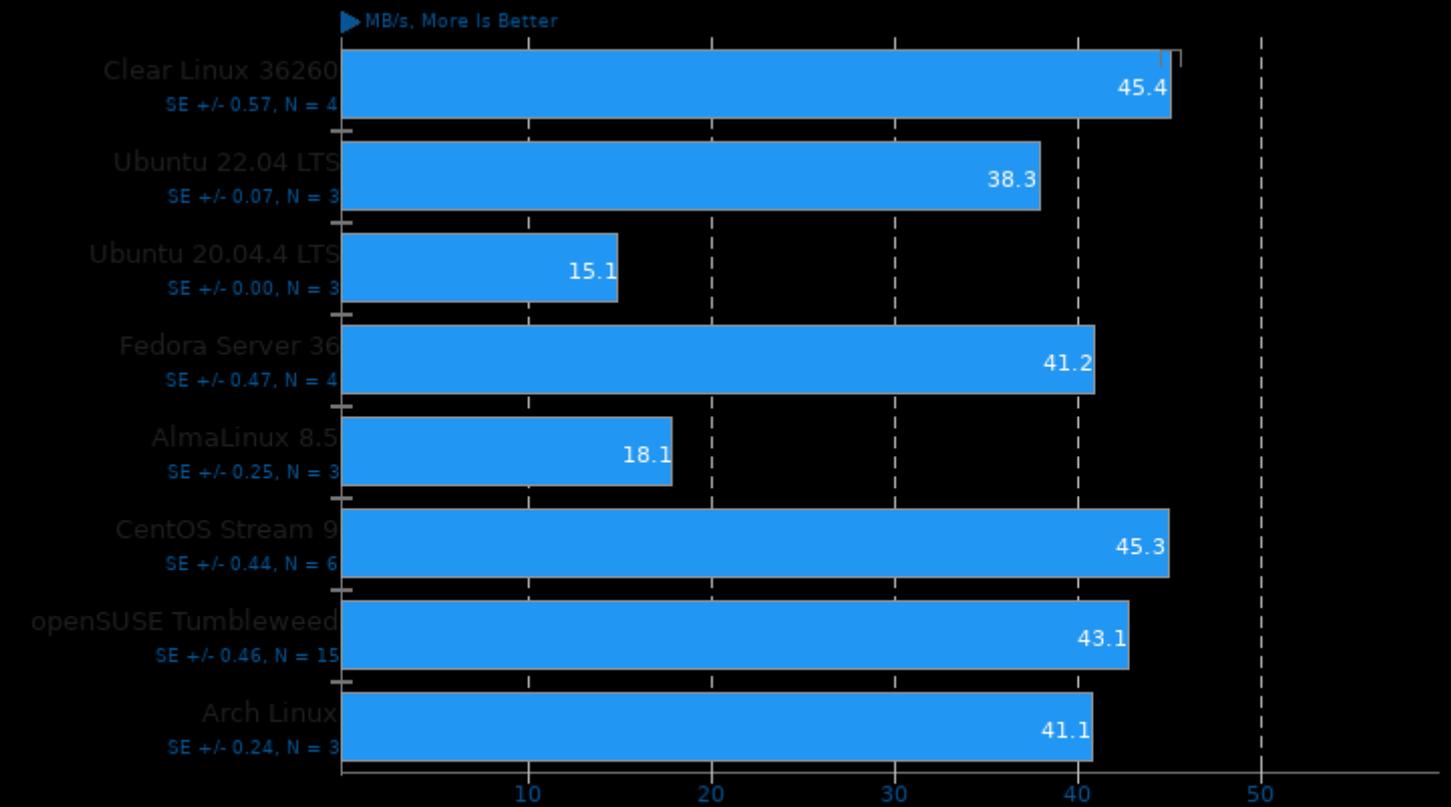
Compression Level: 8, Long Mode - Decompression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

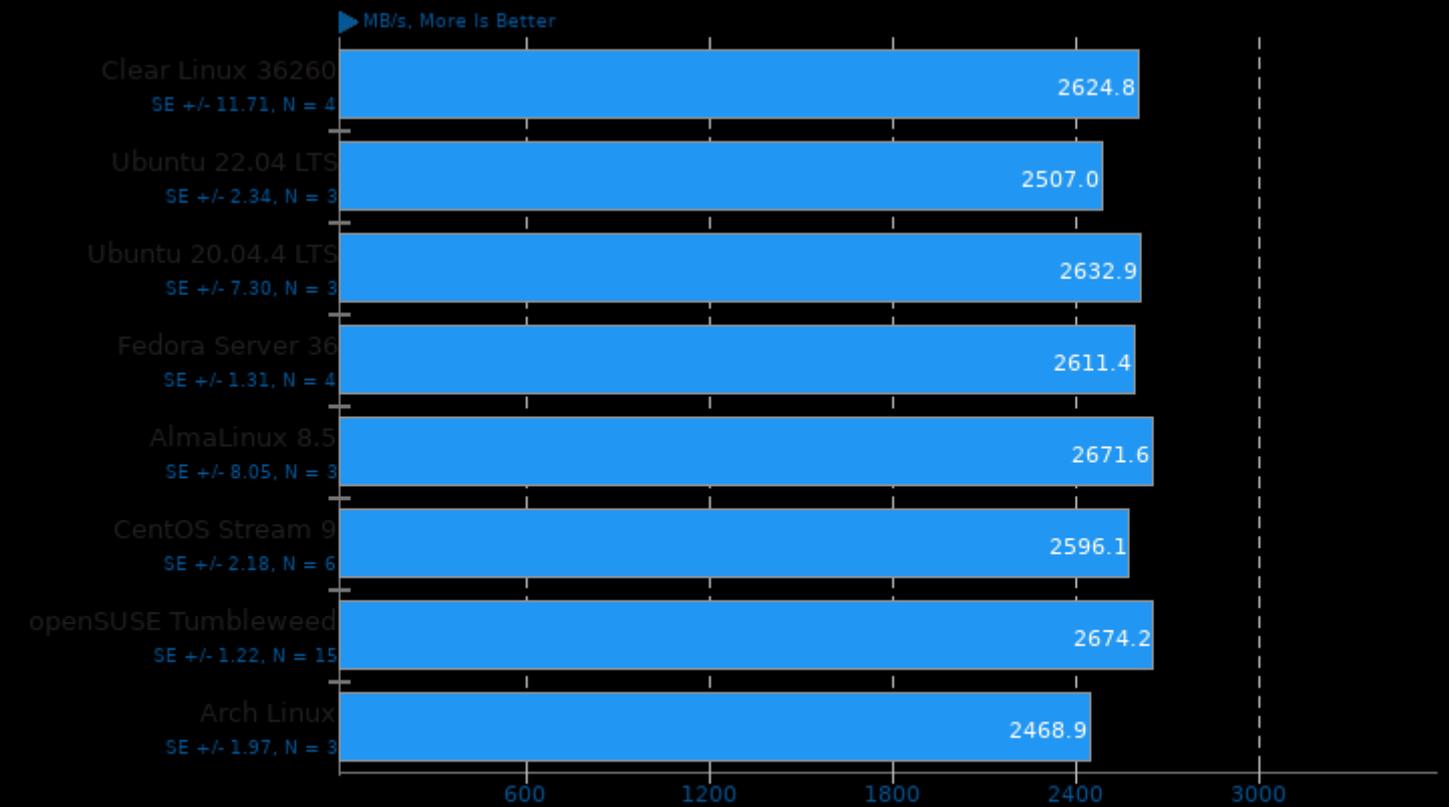
Compression Level: 19, Long Mode - Compression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression

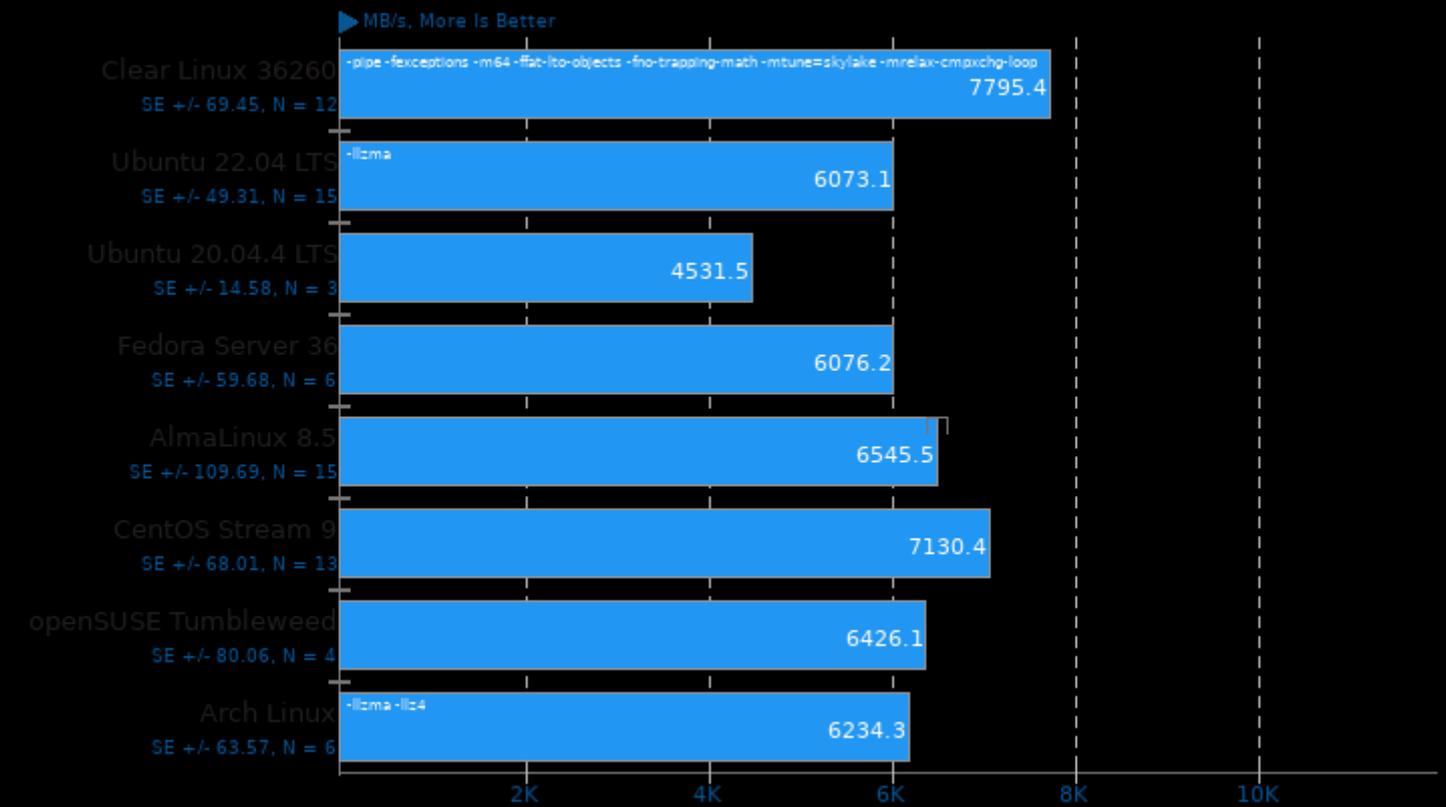
Compression Level: 19, Long Mode - Decompression Speed



1. Clear Linux 36260: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
2. Ubuntu 22.04 LTS: \*\*\* zstd command line interface 64-bits v1.4.8, by Yann Collet \*\*\*
3. Ubuntu 20.04.4 LTS: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
4. Fedora Server 36: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
5. AlmaLinux 8.5: \*\*\* zstd command line interface 64-bits v1.4.4, by Yann Collet \*\*\*
6. CentOS Stream 9: \*\*\* zstd command line interface 64-bits v1.5.1, by Yann Collet \*\*\*
7. openSUSE Tumbleweed: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*
8. Arch Linux: \*\*\* zstd command line interface 64-bits v1.5.2, by Yann Collet \*\*\*

## Zstd Compression 1.5.0

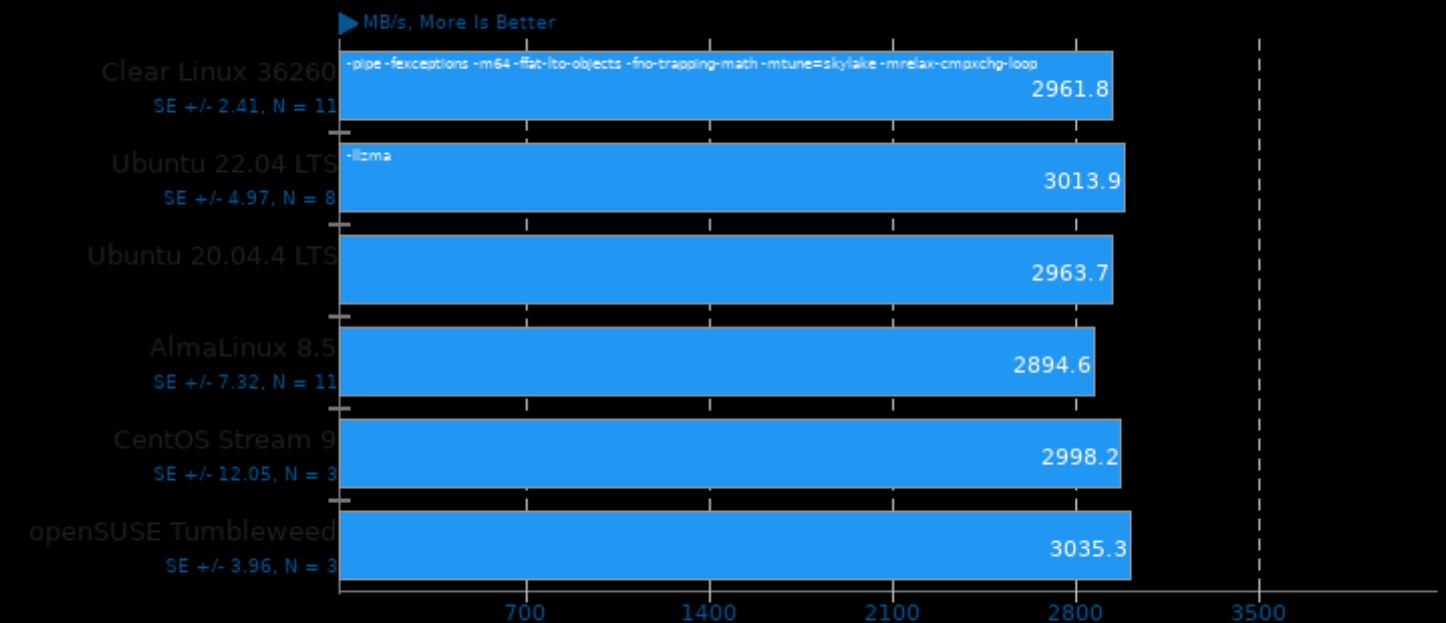
Compression Level: 3 - Compression Speed



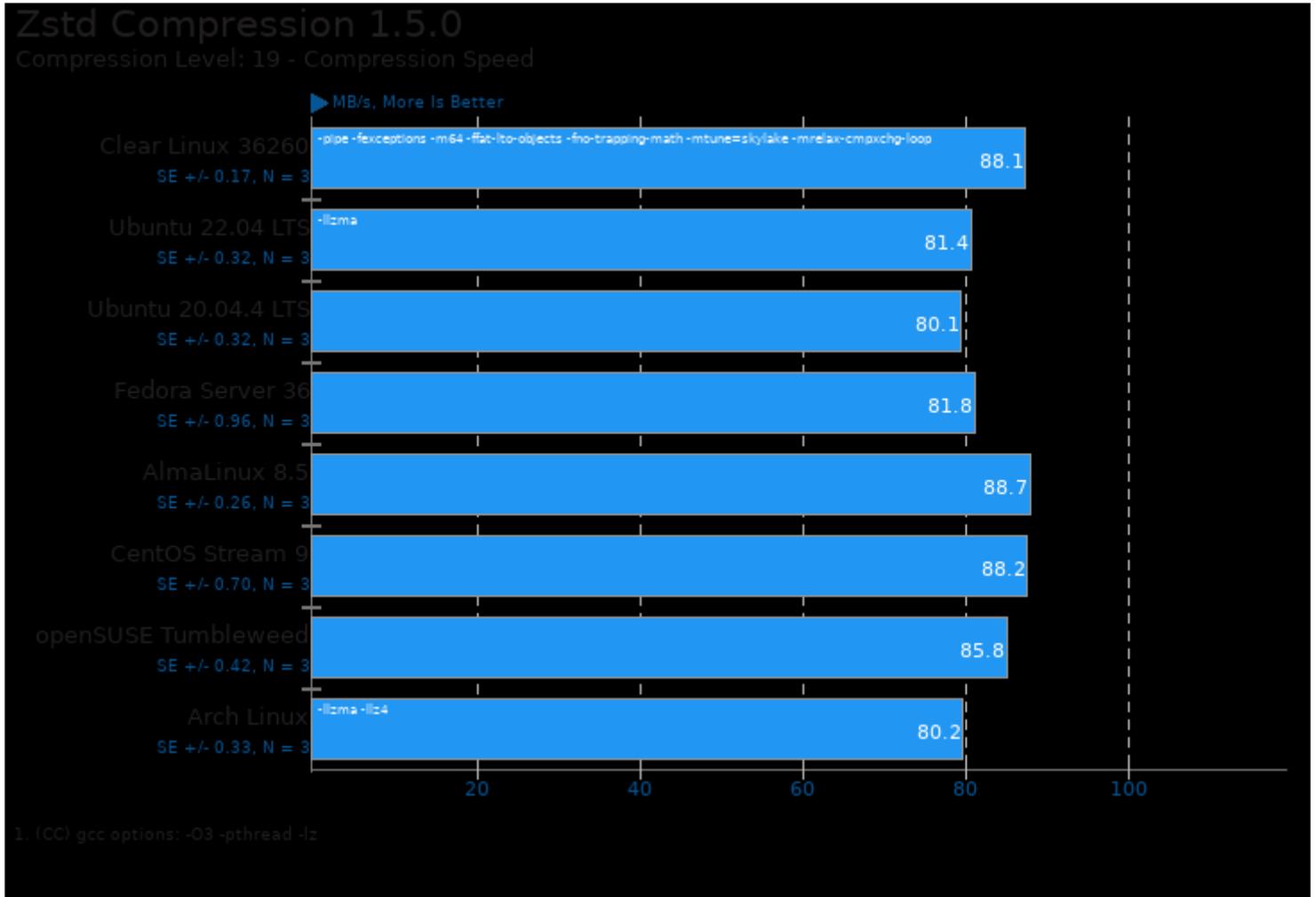
1. (C) gcc options: -O3 -pthread -lz

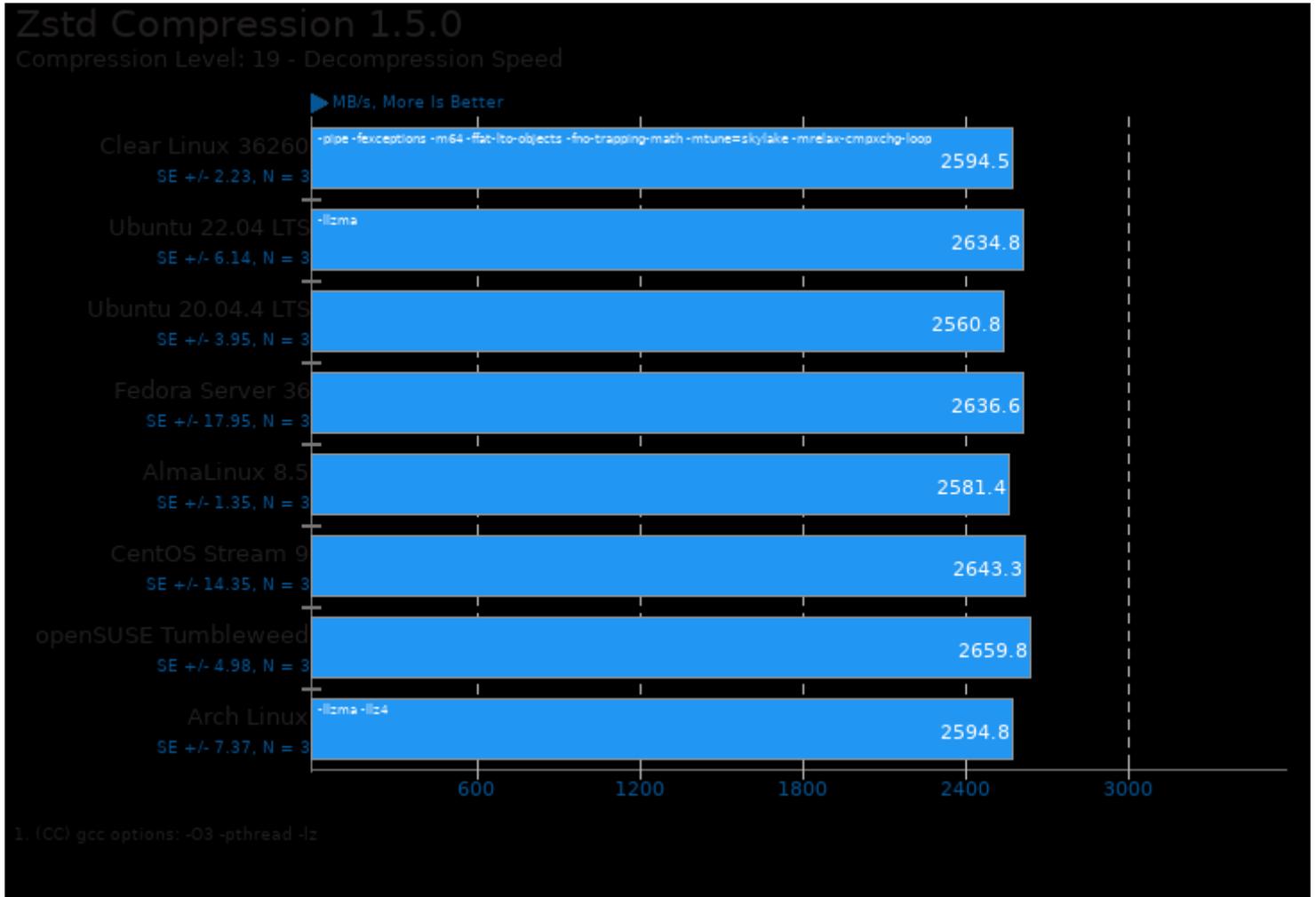
## Zstd Compression 1.5.0

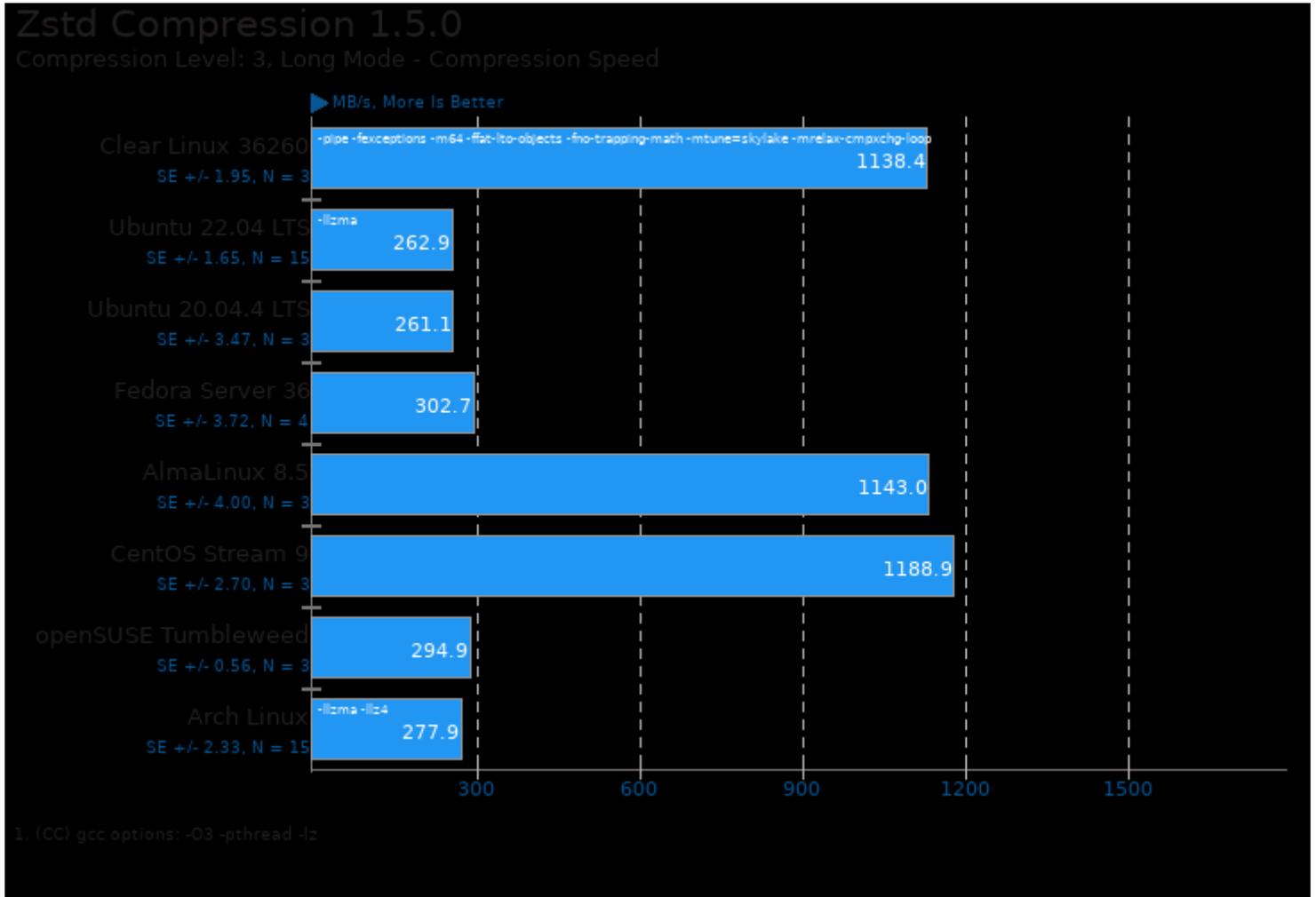
Compression Level: 3 - Decompression Speed



1. (C) gcc options: -O3 -pthread -lz

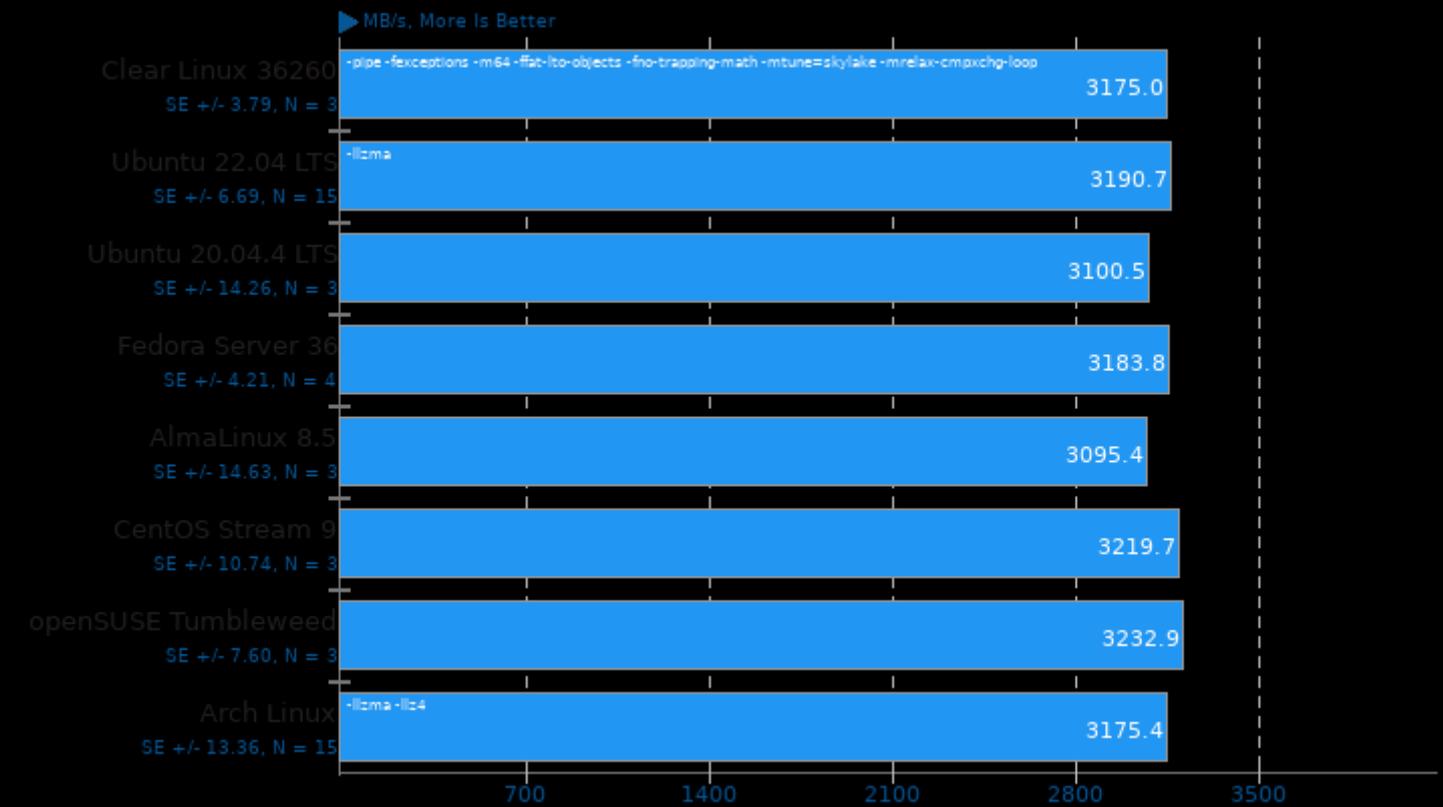




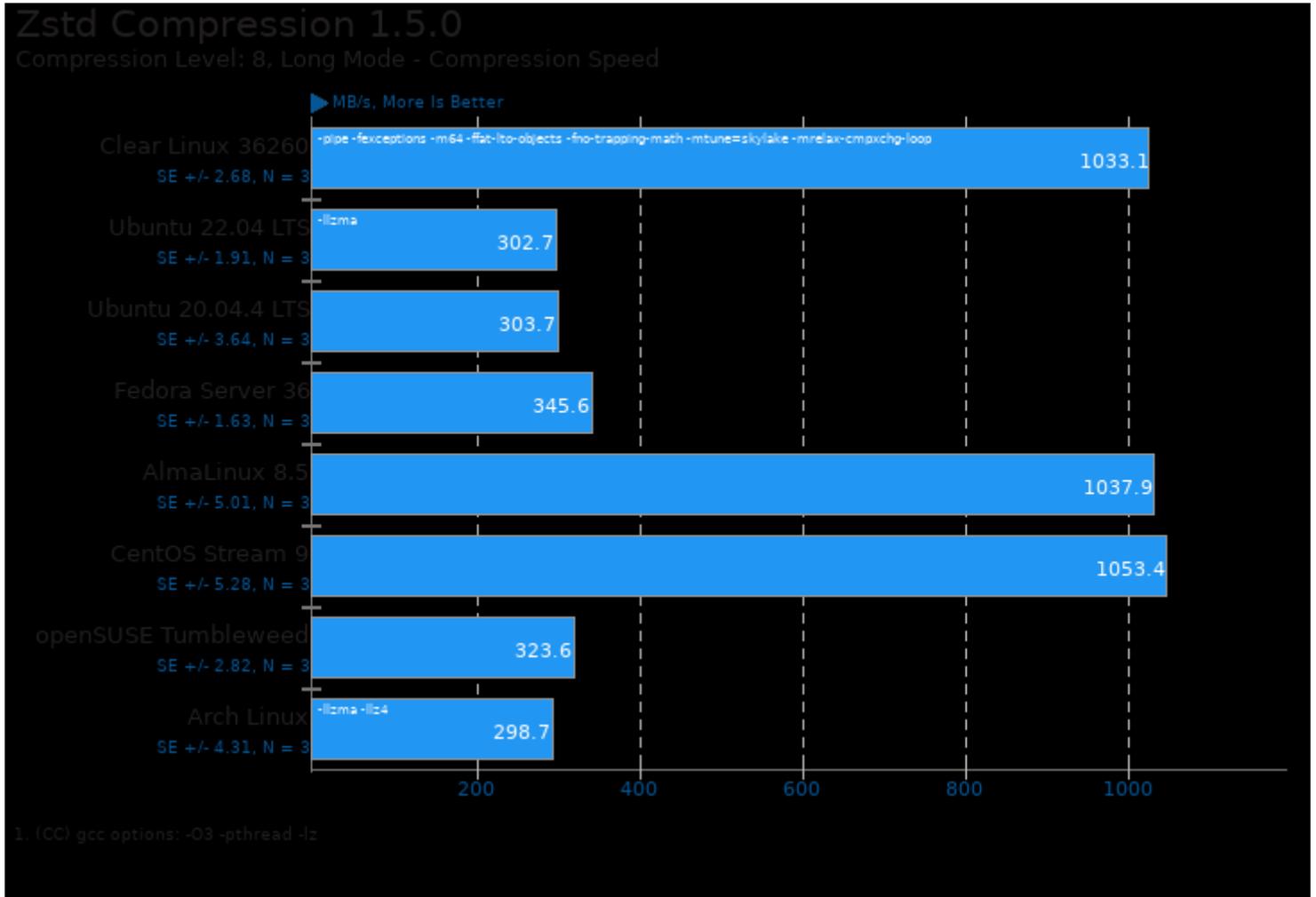


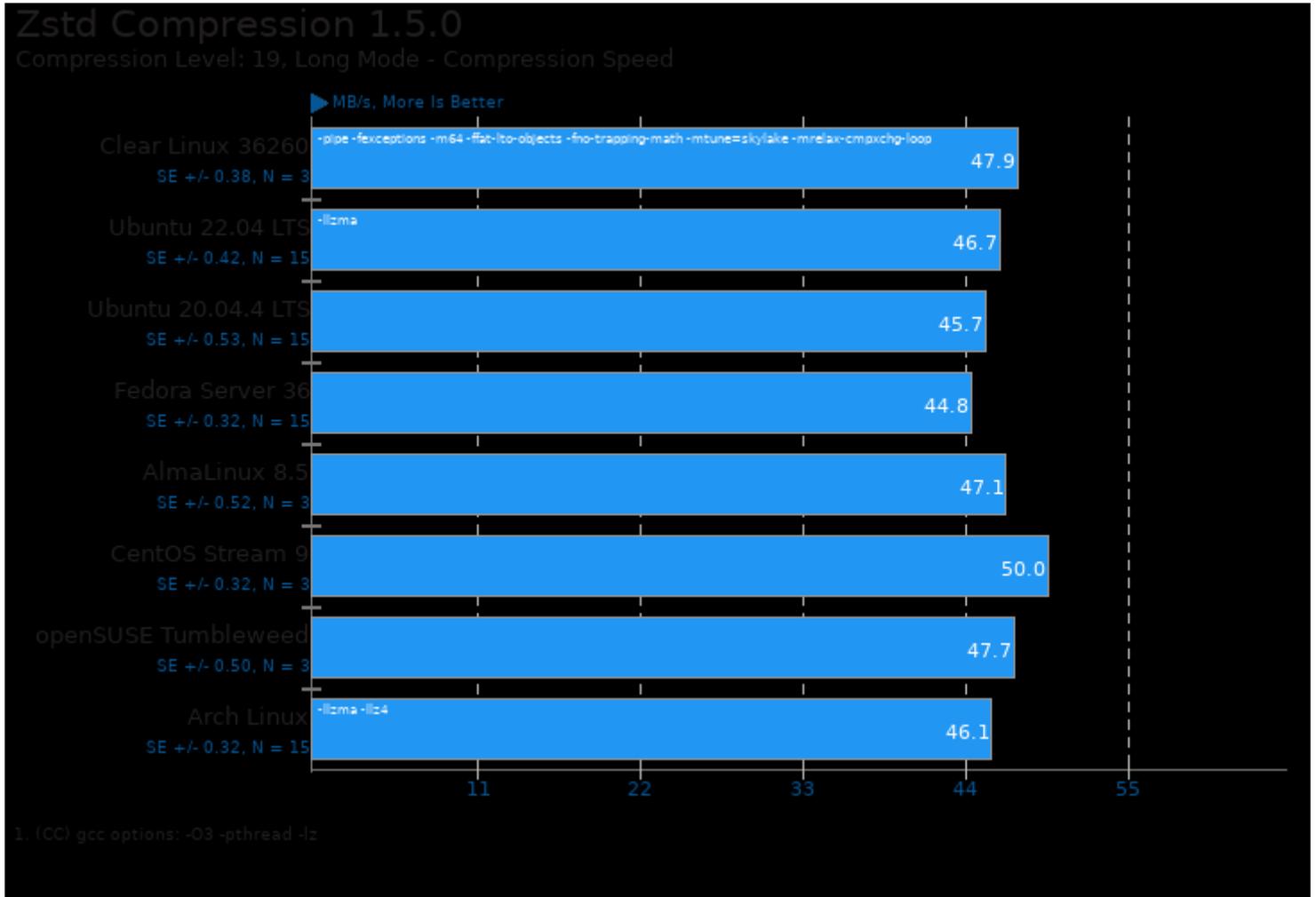
## Zstd Compression 1.5.0

Compression Level: 3, Long Mode - Decompression Speed



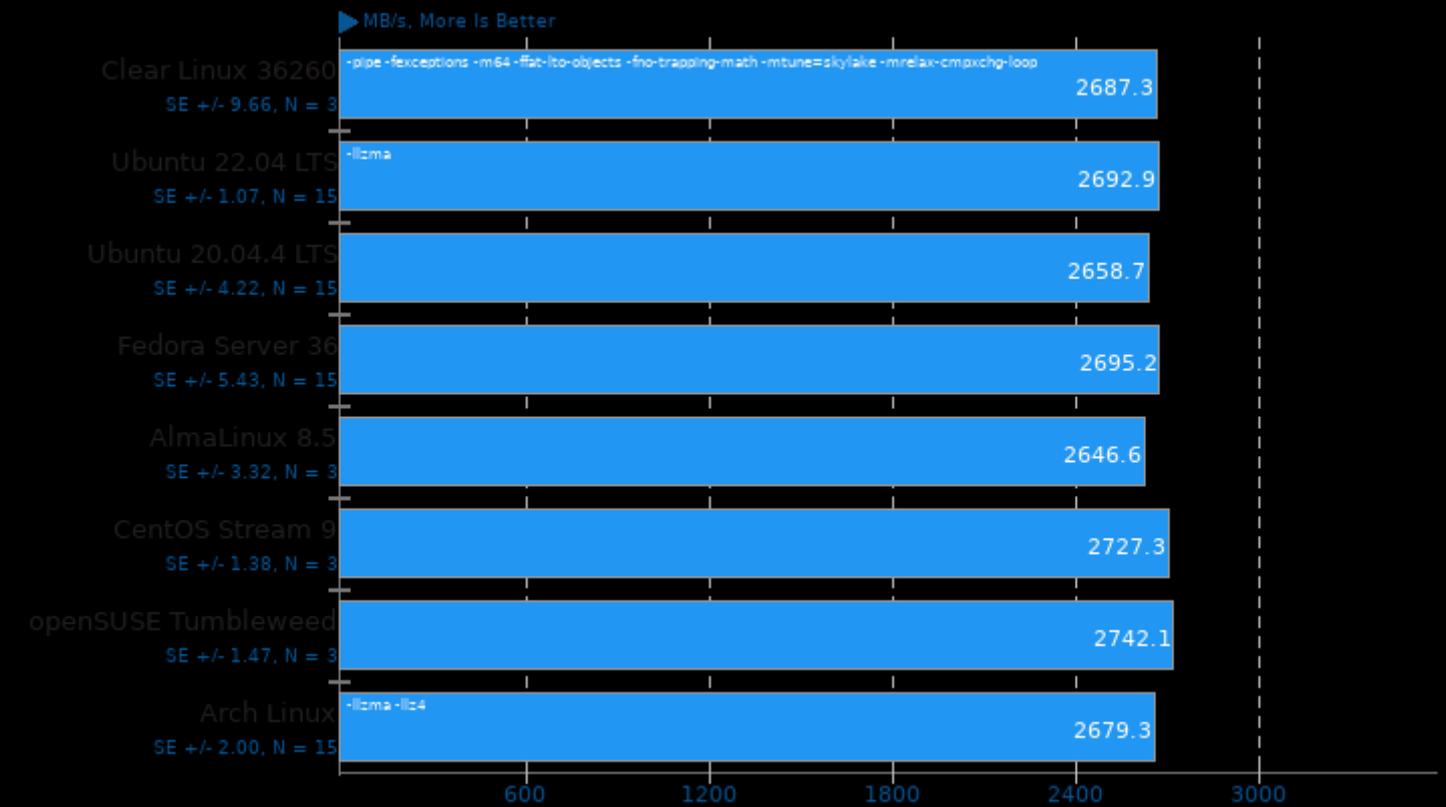
1. (GCC) gcc options: -O3 -pthread -lz





### Zstd Compression 1.5.0

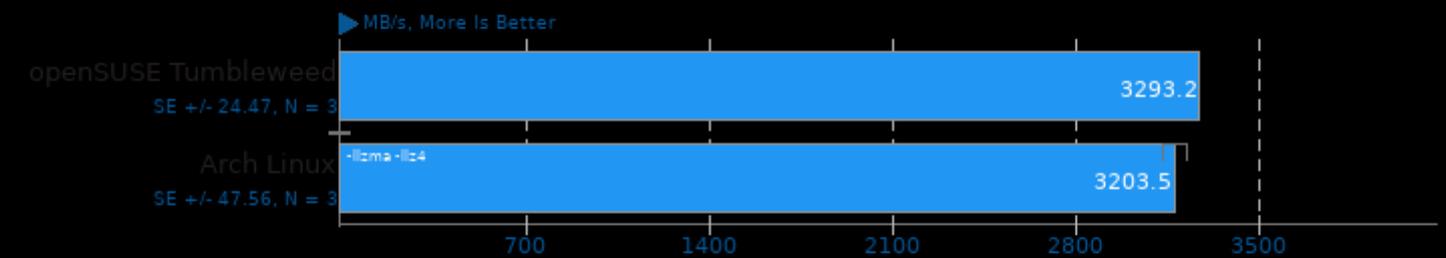
Compression Level: 19, Long Mode - Decompression Speed



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

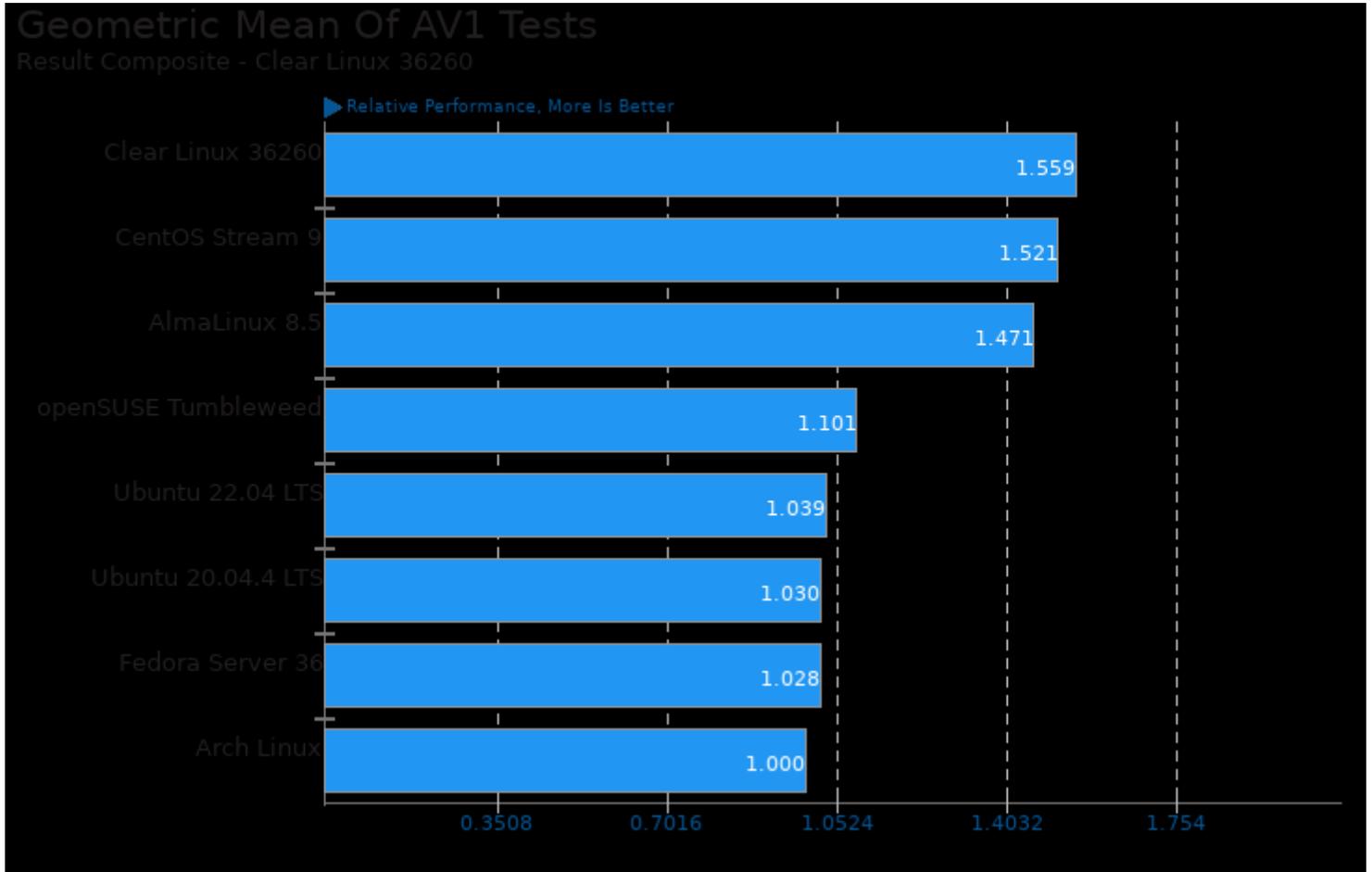
### Zstd Compression 1.5.0

Compression Level: 8, Long Mode - Decompression Speed

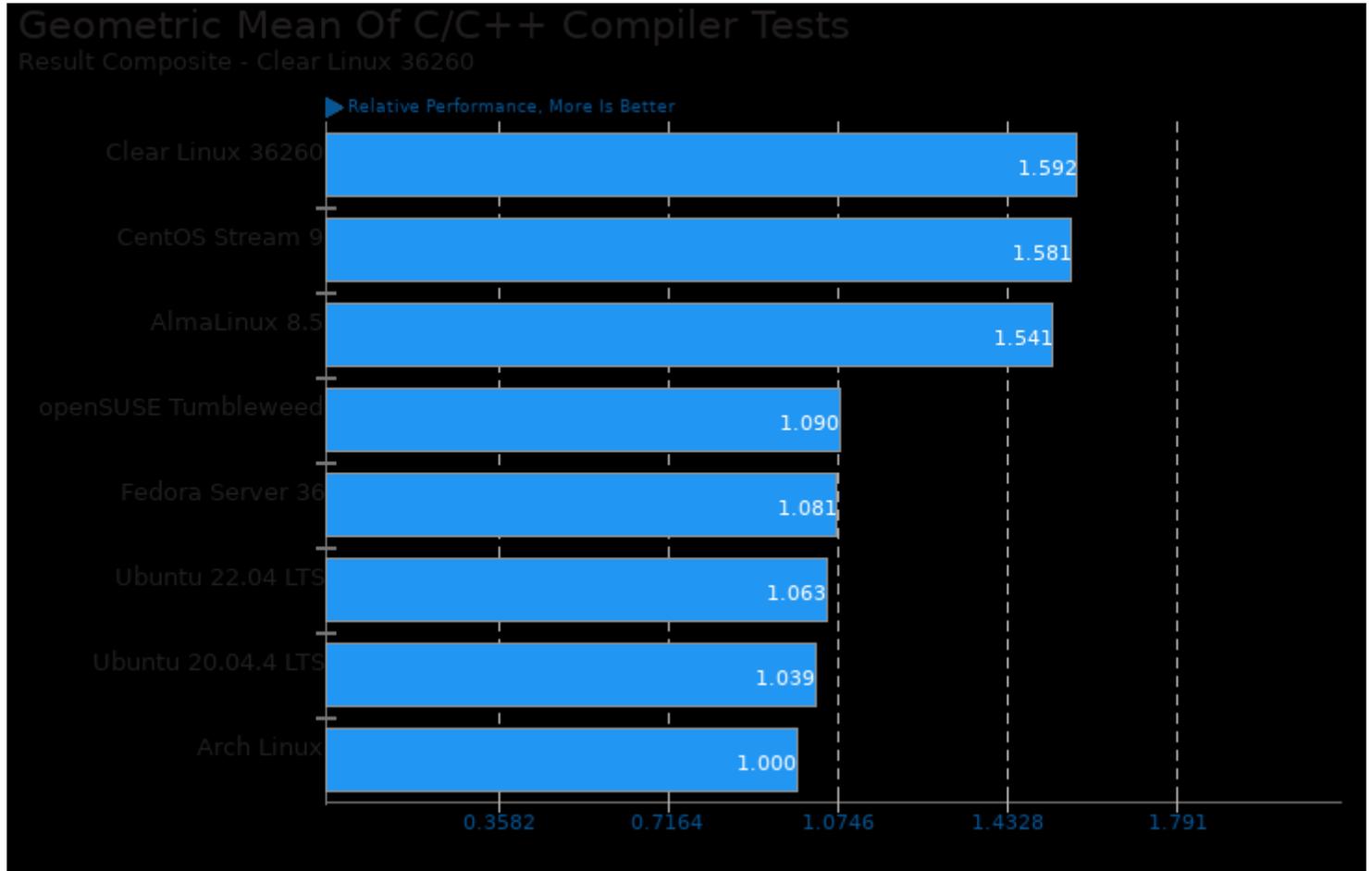


1. (CC) gcc options: -O3 -pthread -lz

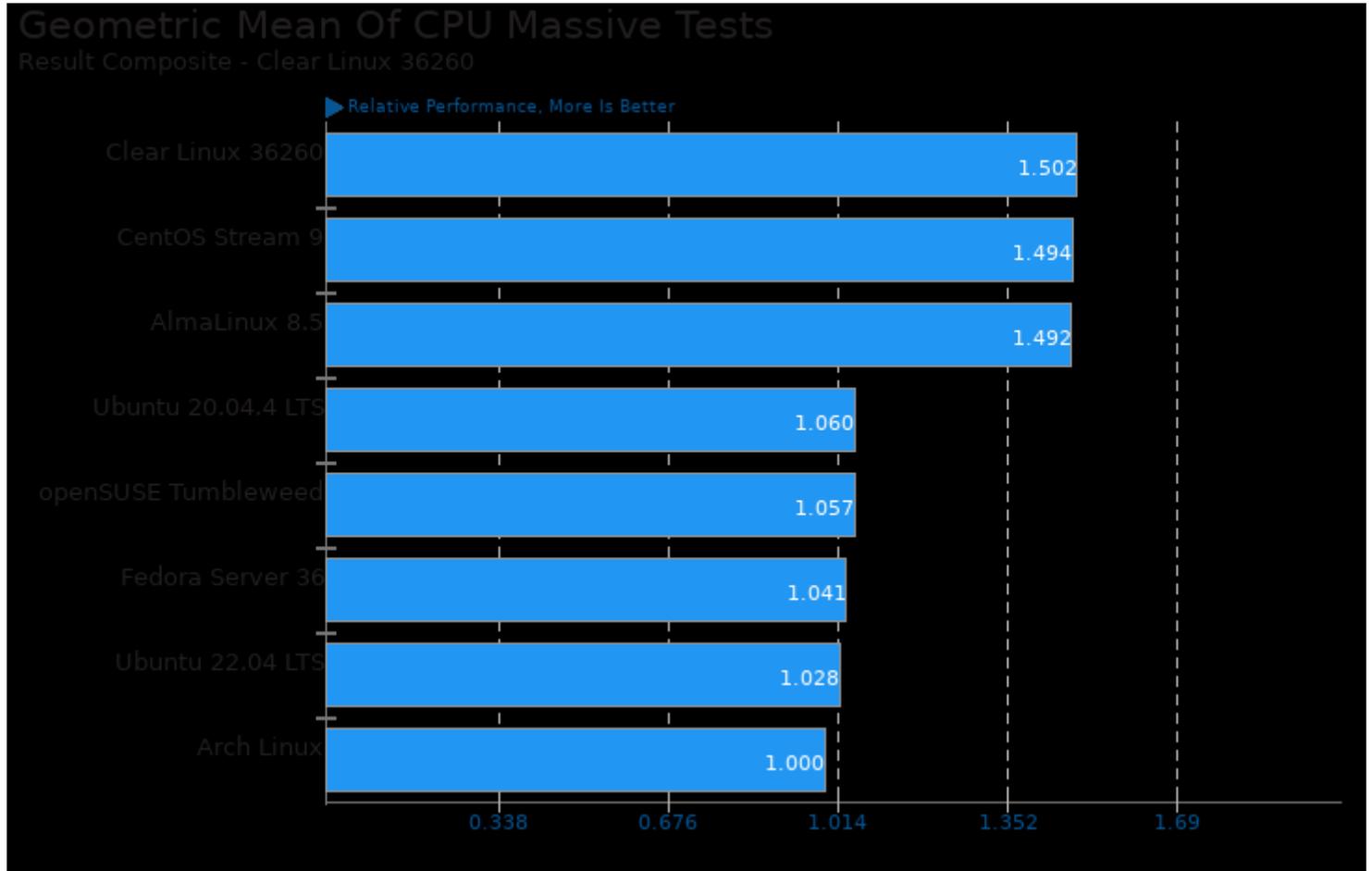
These geometric means are based upon test groupings / test suites for this result file.



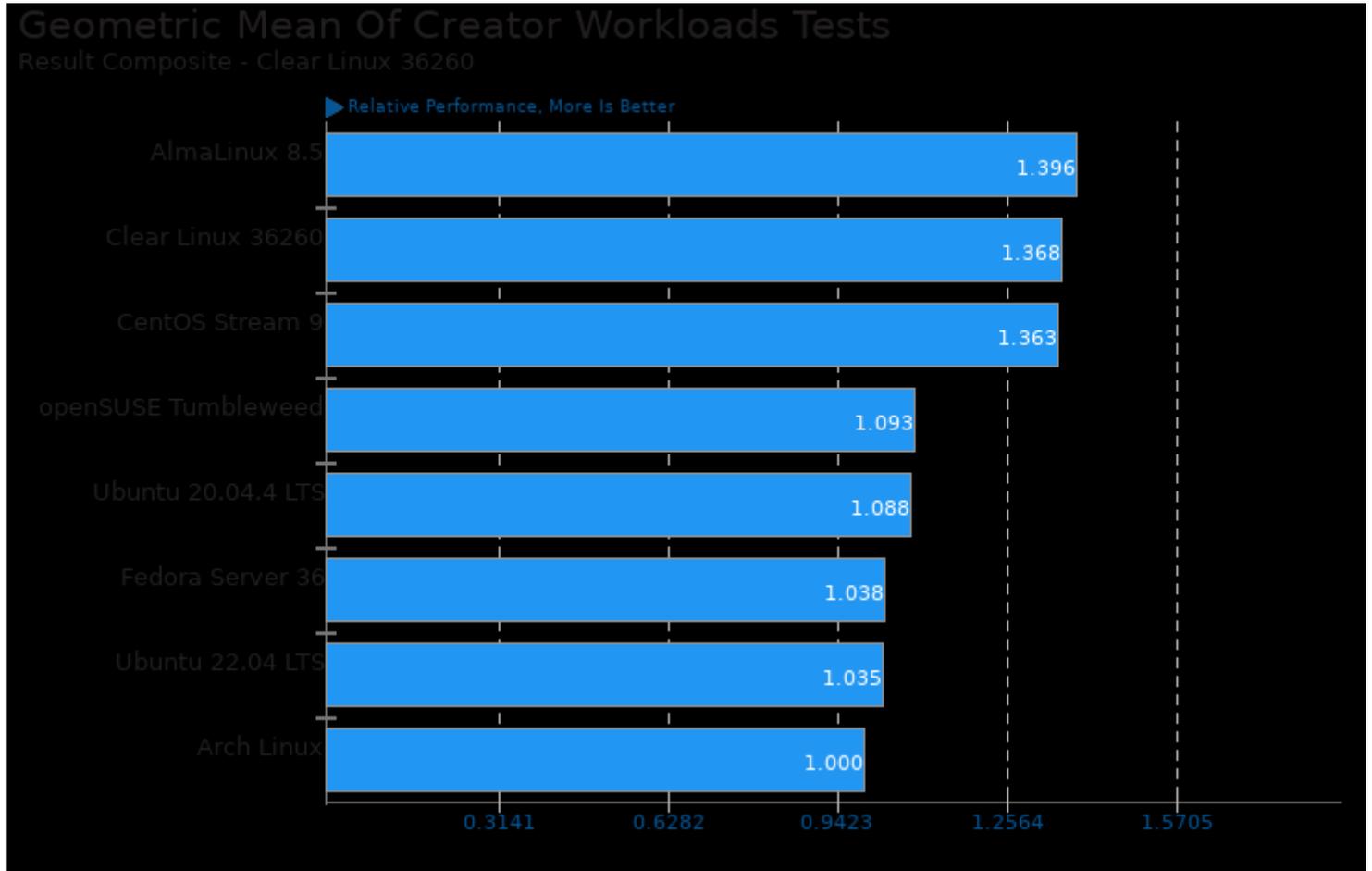
Geometric mean based upon tests: pts/svt-av1 and pts/avifenc



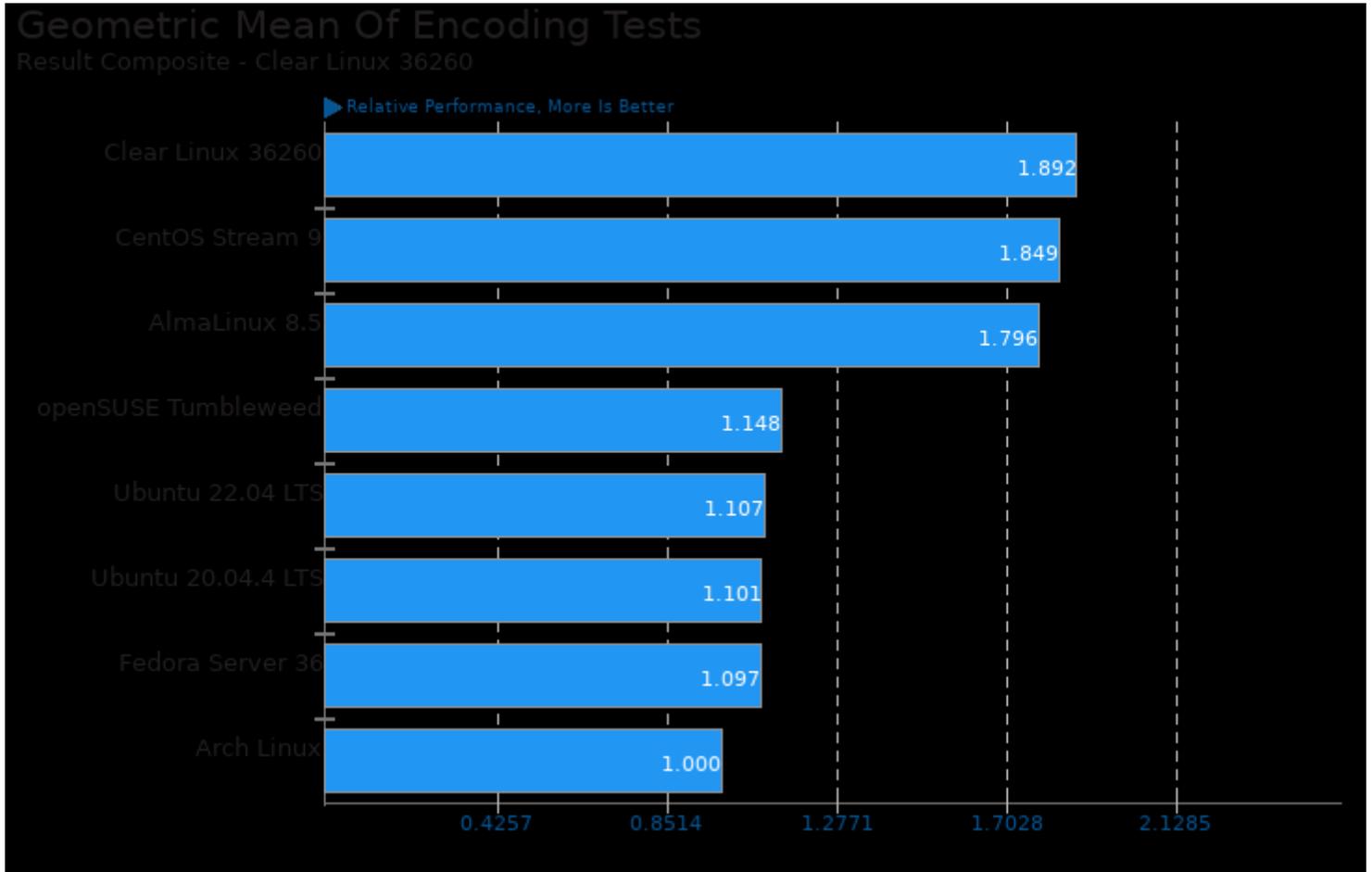
Geometric mean based upon tests: pts/stockfish, pts/apache, pts/compress-zstd, pts/nginx, pts/lampps, pts/svt-av1, pts/svt-vp9, pts/gromacs and pts/tachyon



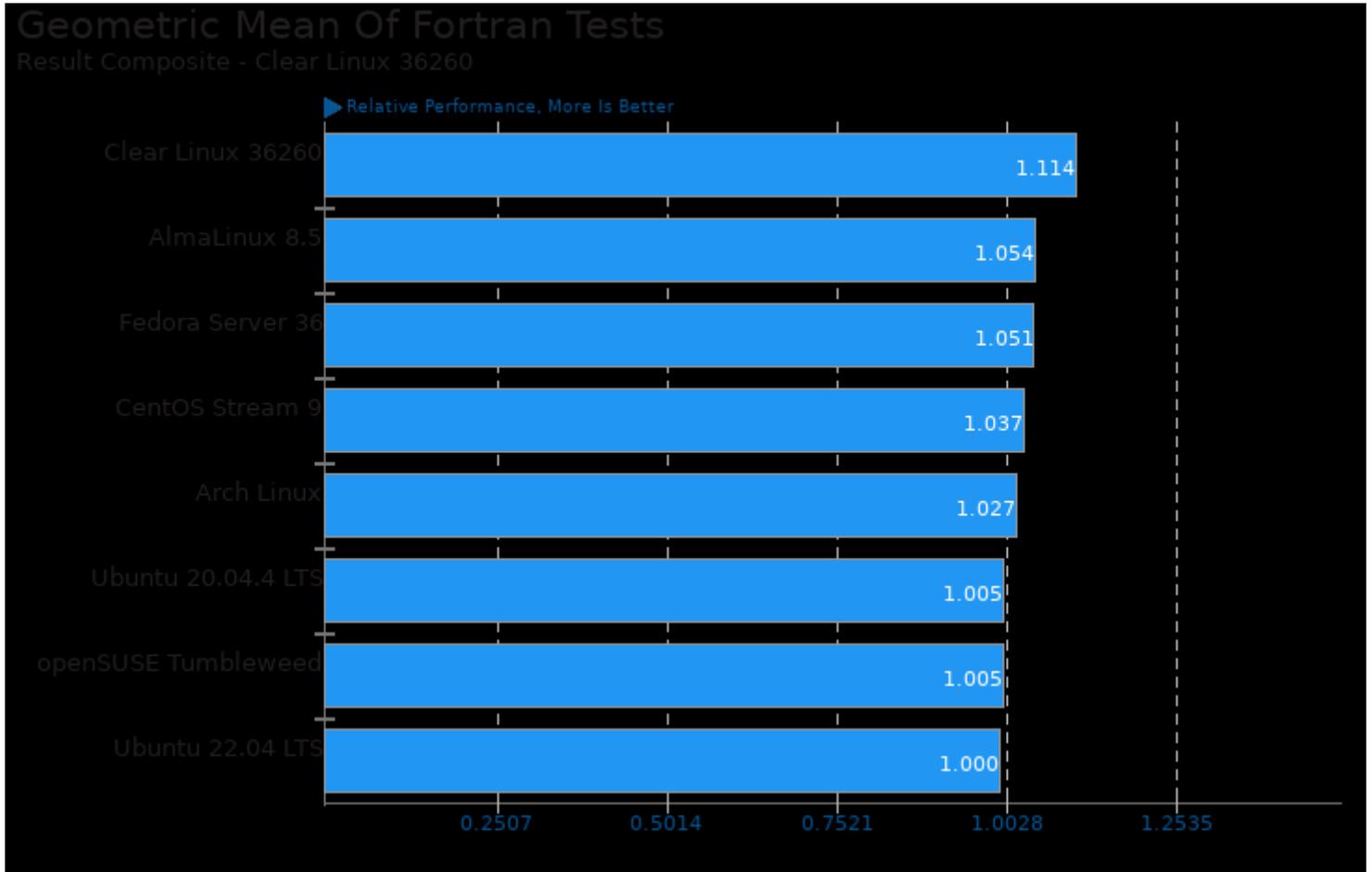
Geometric mean based upon tests: pts/apache, pts/compress-zstd, pts/dacapobench, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/lammps, pts/onednn, pts/nginx, pts/numpy, pts/phpbench, pts/stockfish, pts/stress-ng, pts/tachyon, pts/blender and pts/renaissance



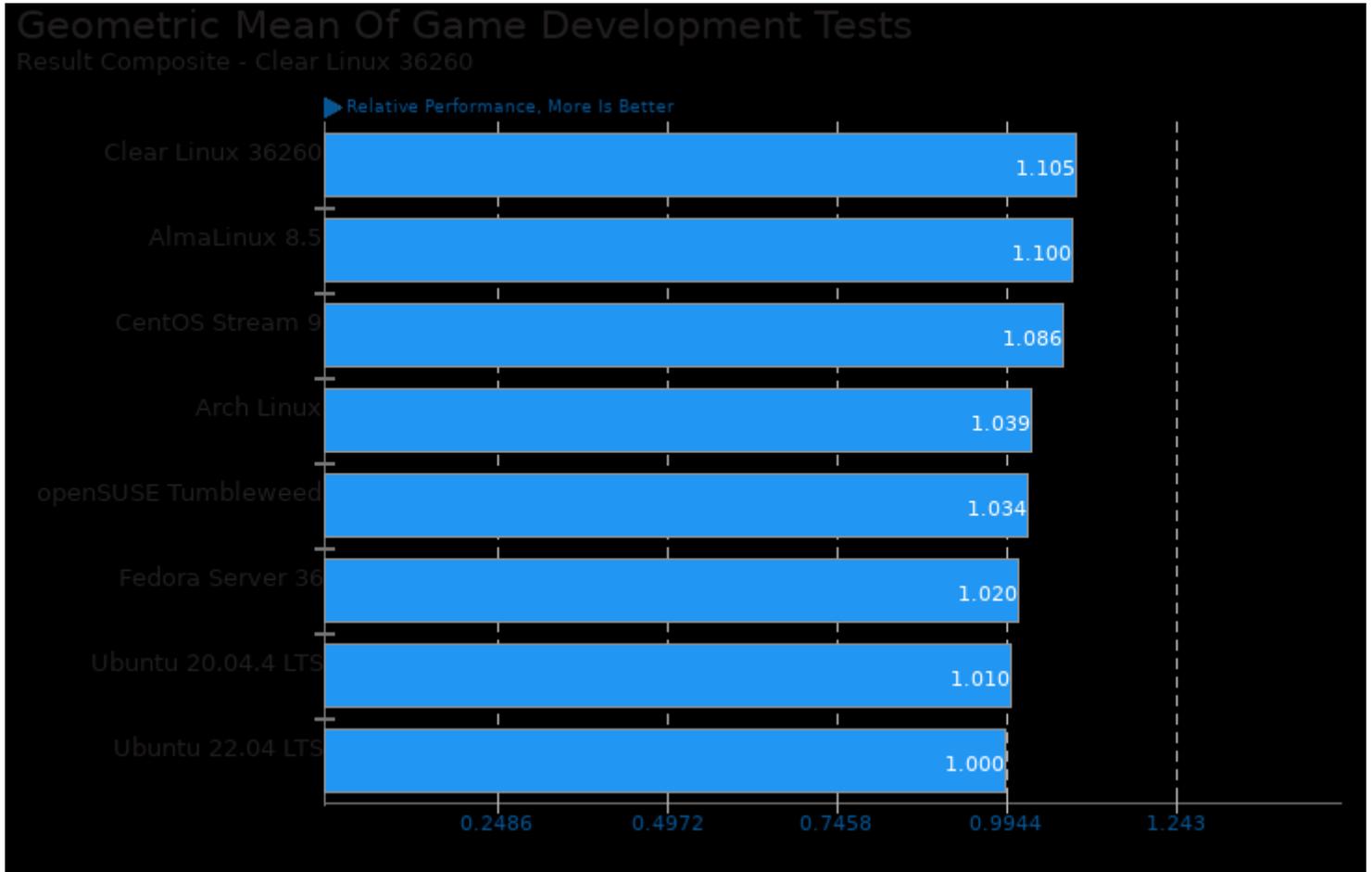
Geometric mean based upon tests: pts/ospray, pts/tachyon, pts/blender, pts/luxcorerender, pts/svt-vp9, pts/svt-hevc, pts/svt-av1, pts/avifenc, pts/embree, pts/onednn and pts/ascenc



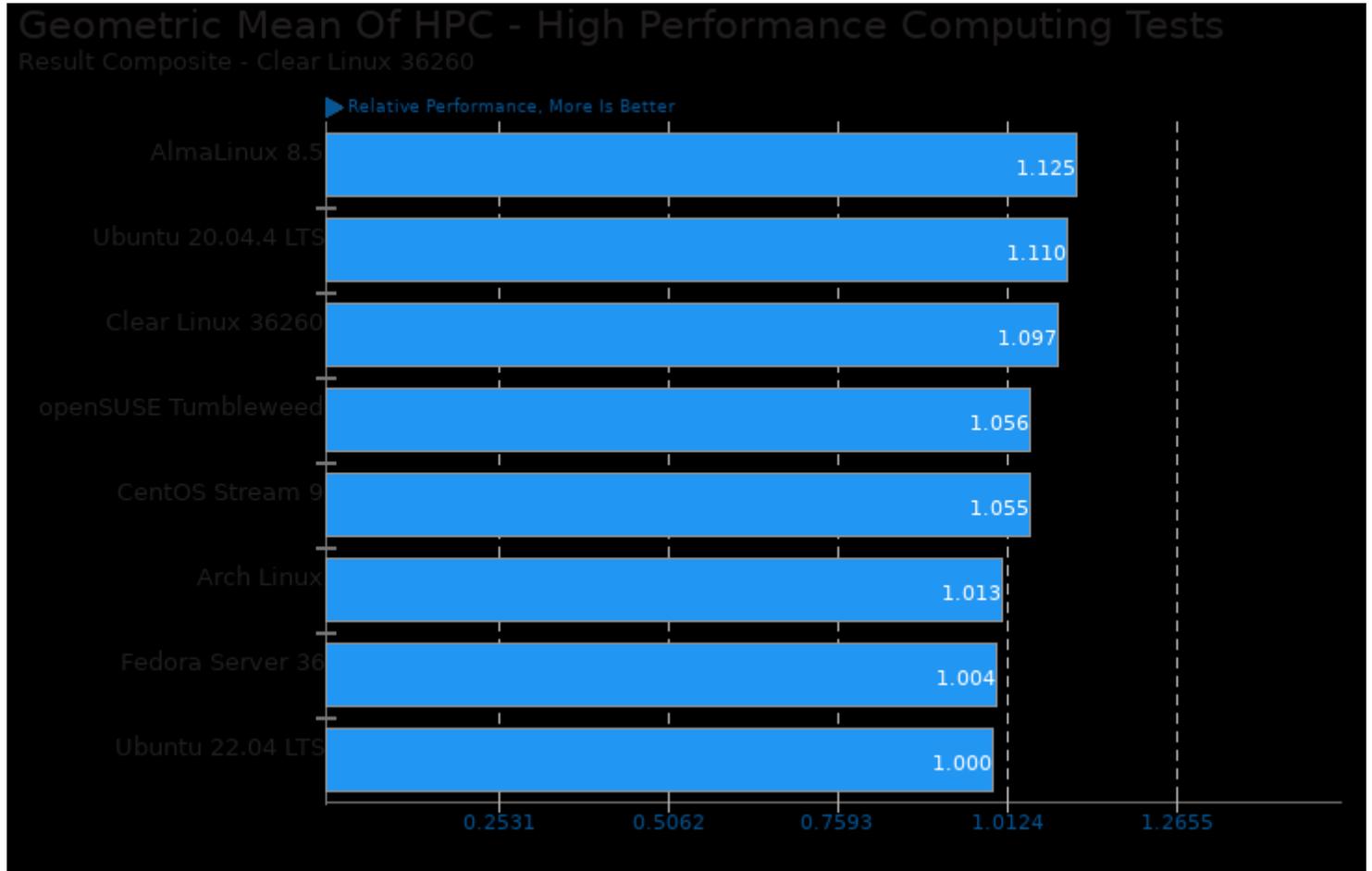
Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/svt-av1 and pts/avifenc



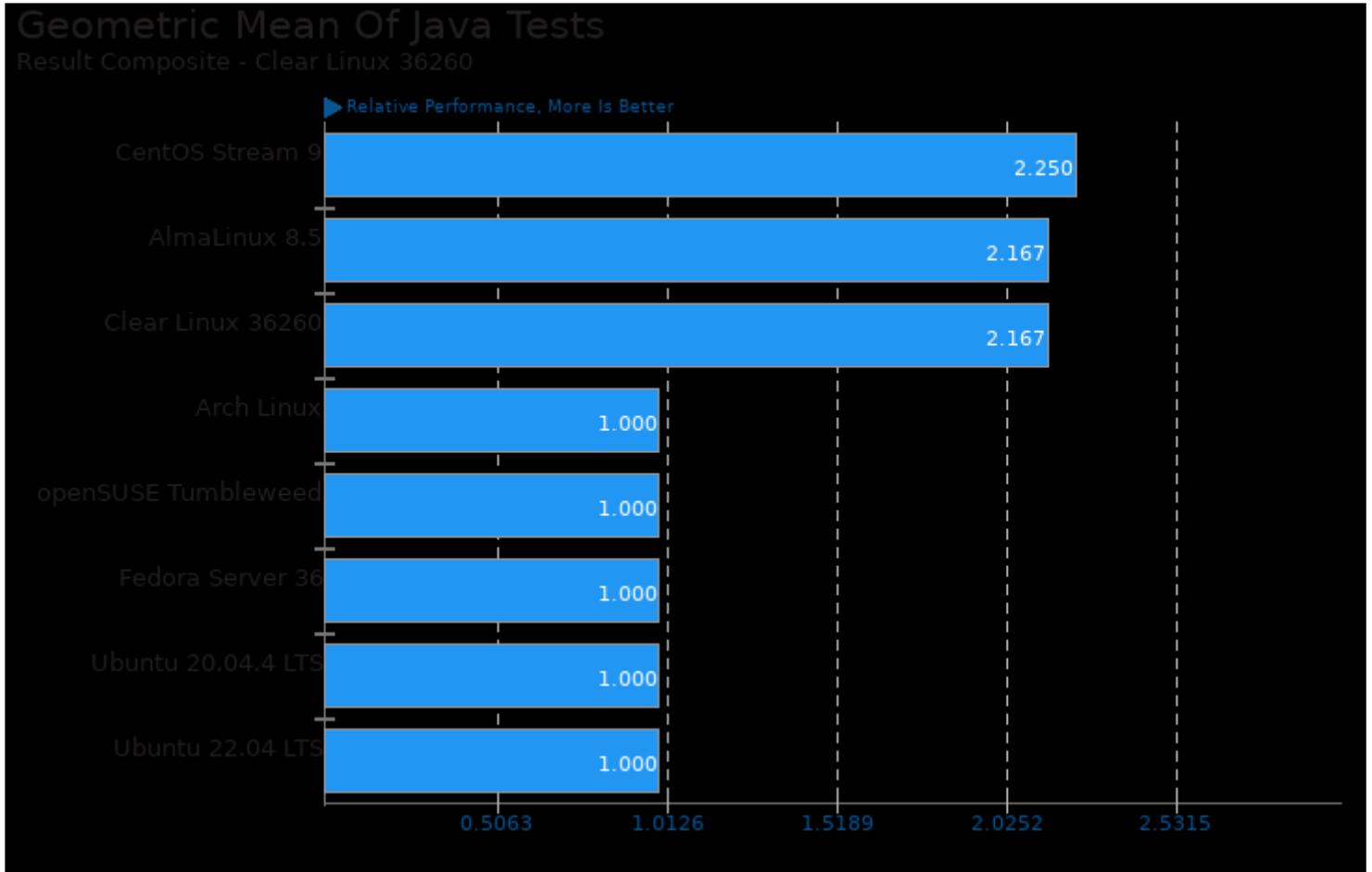
Geometric mean based upon tests: pts/lammps and pts/incompact3d



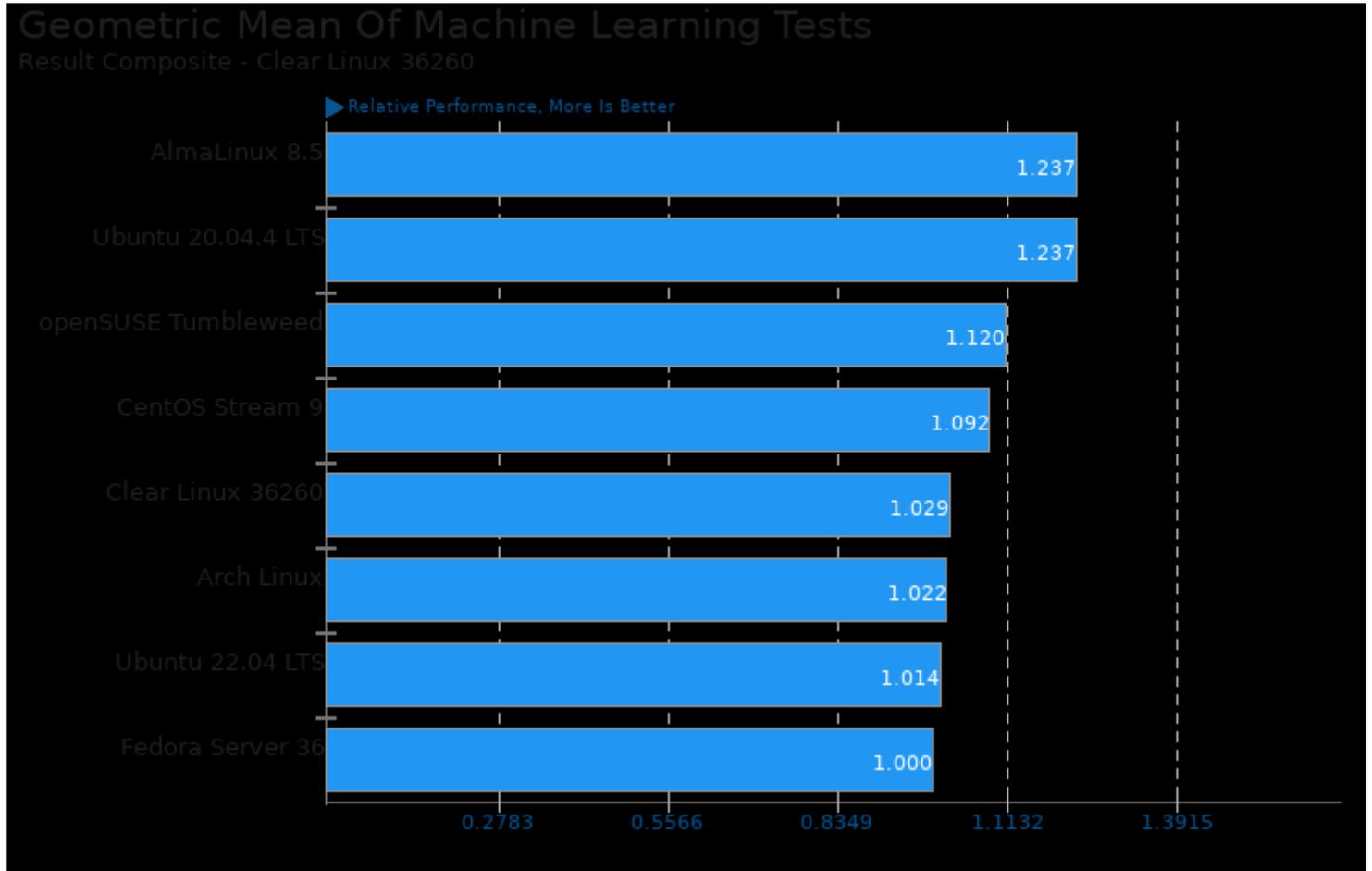
Geometric mean based upon tests: pts/astcenc and pts/blender



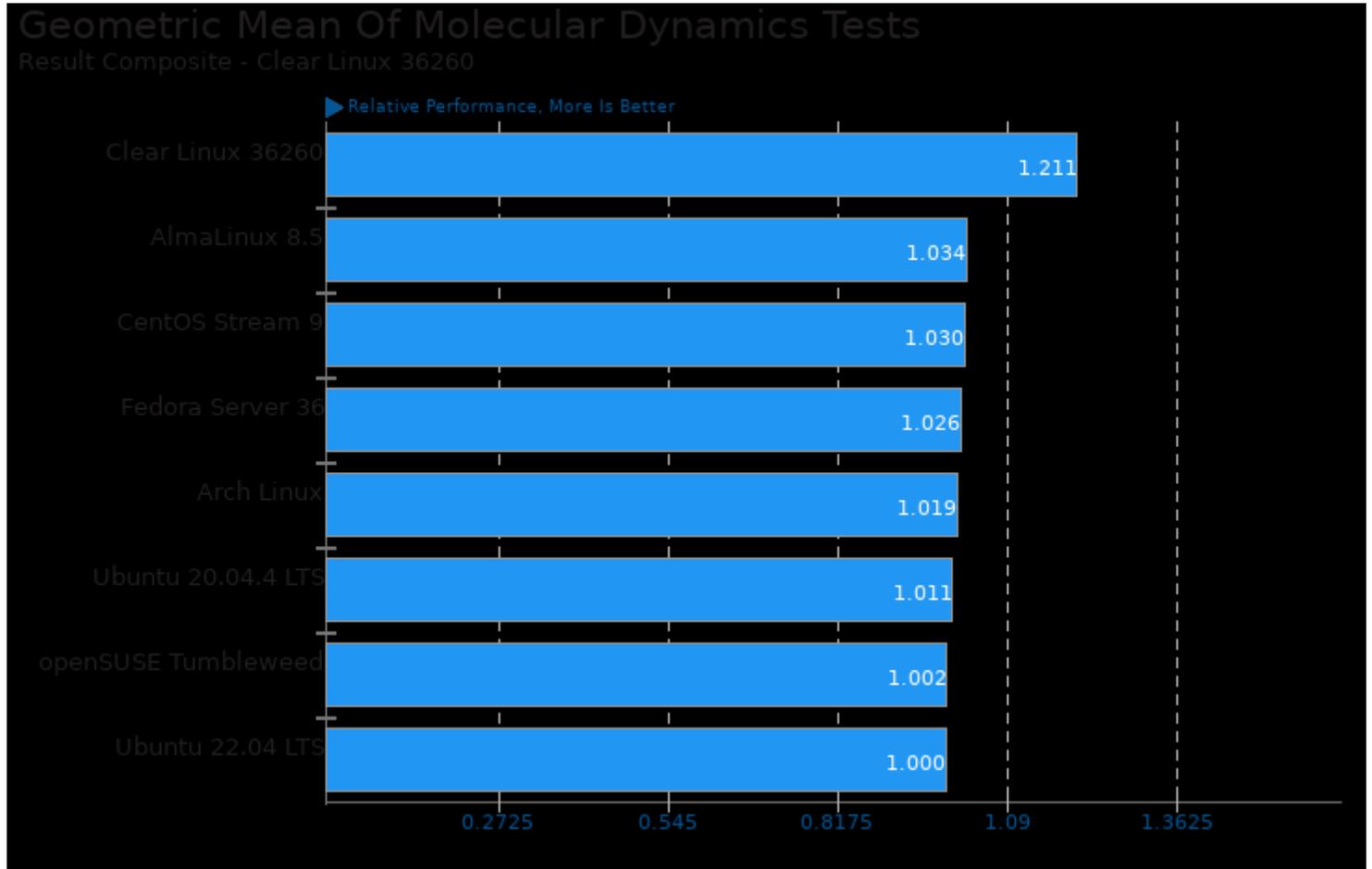
Geometric mean based upon tests: pts/amg, pts/gromacs, pts/lammps, pts/pennant, pts/incompact3d, pts/numpy, pts/onednn and pts/onnx



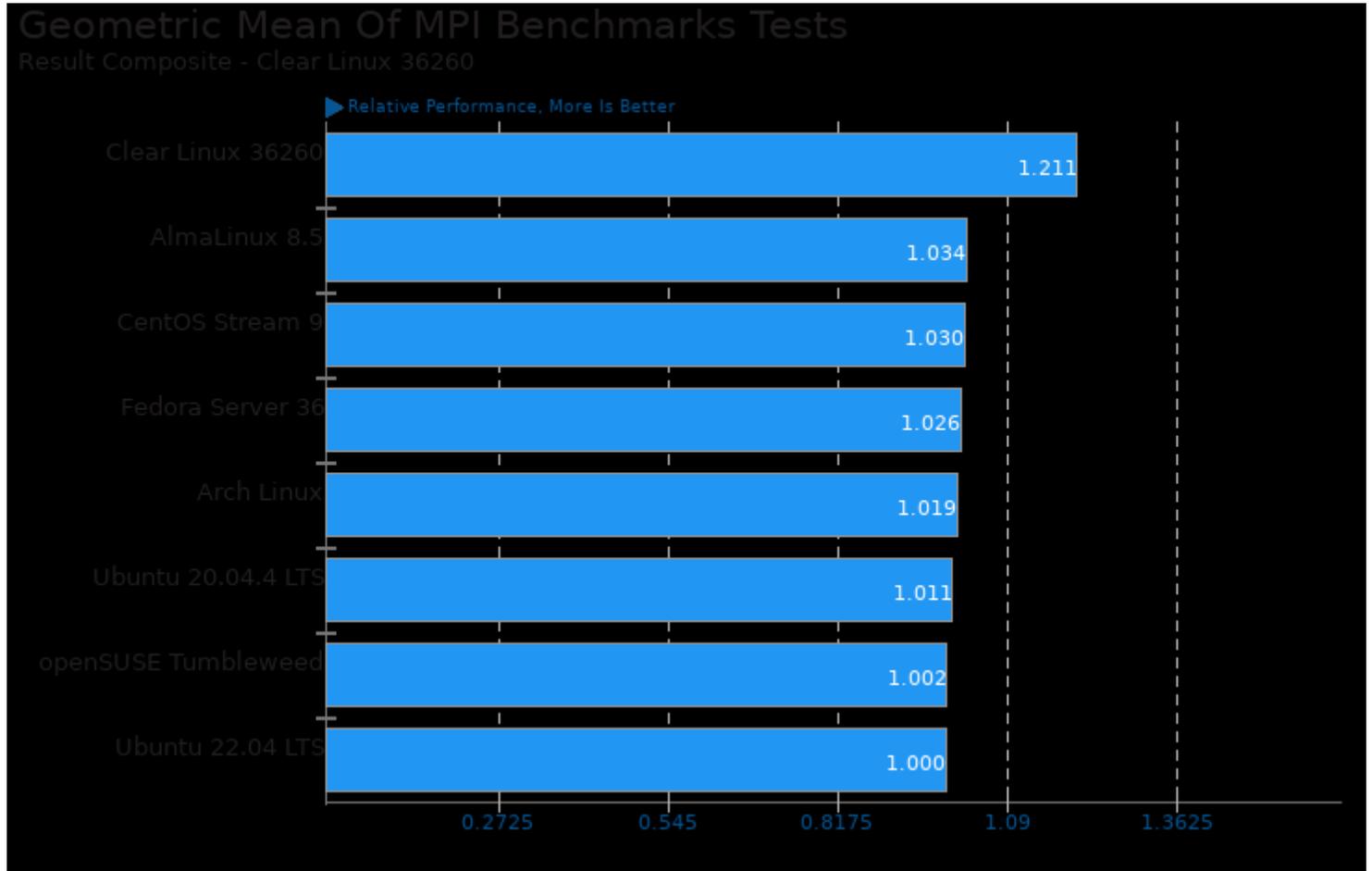
Geometric mean based upon tests: pts/dacapobench and pts/renaissance



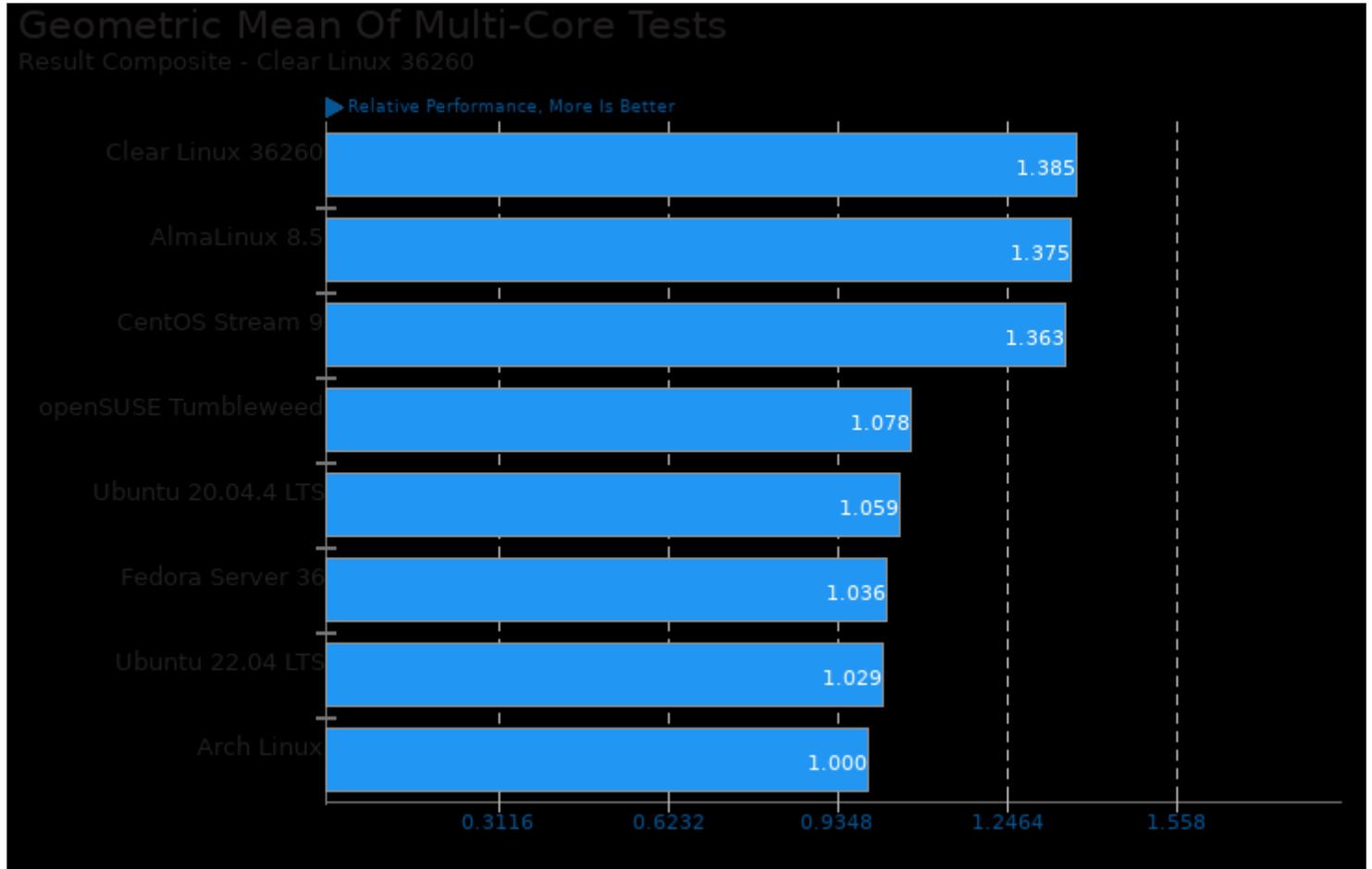
Geometric mean based upon tests: pts/numpy, pts/onednn and pts/onnx



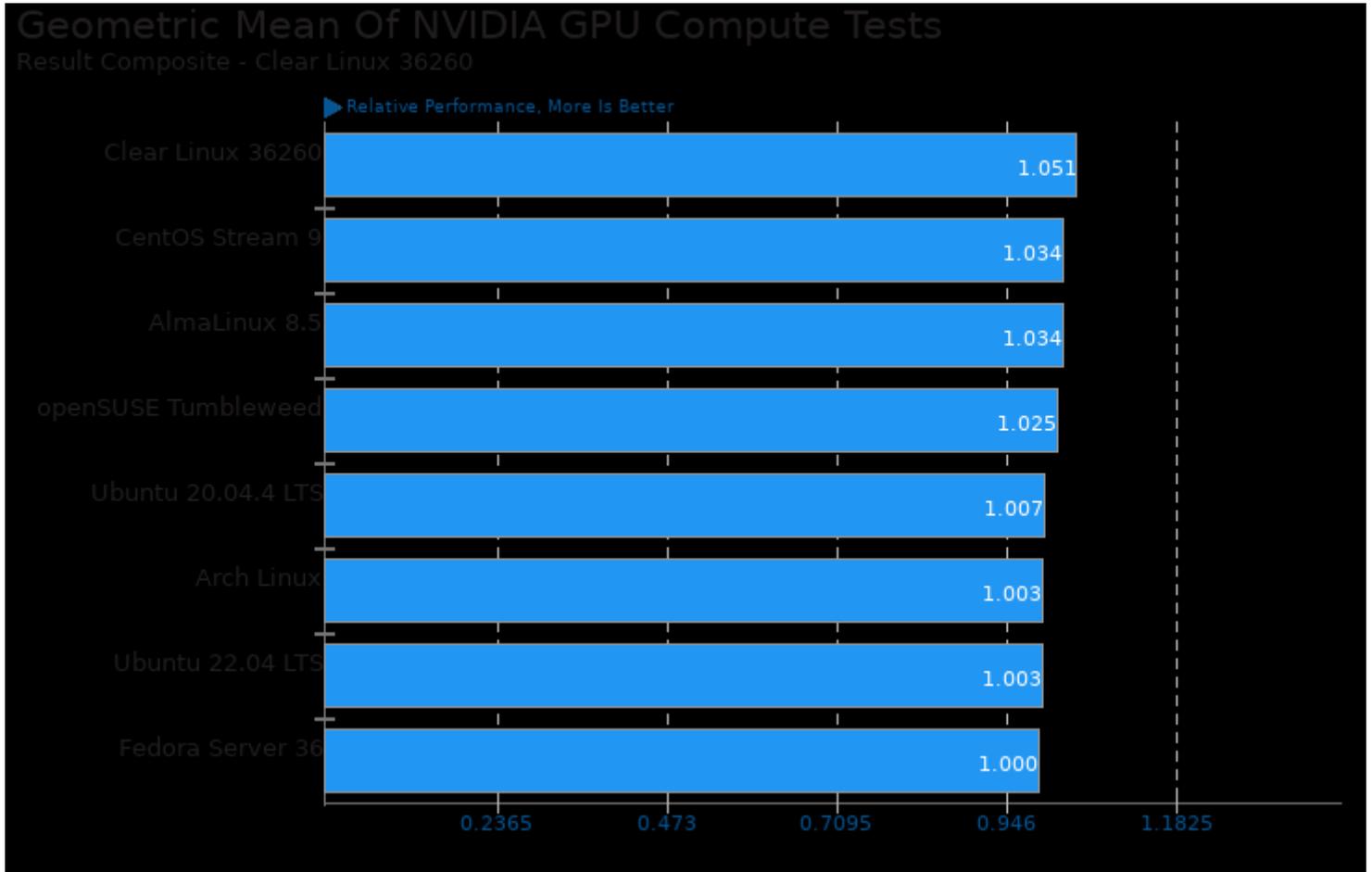
Geometric mean based upon tests: pts/gromacs, pts/lammps, pts/pennant and pts/incompact3d



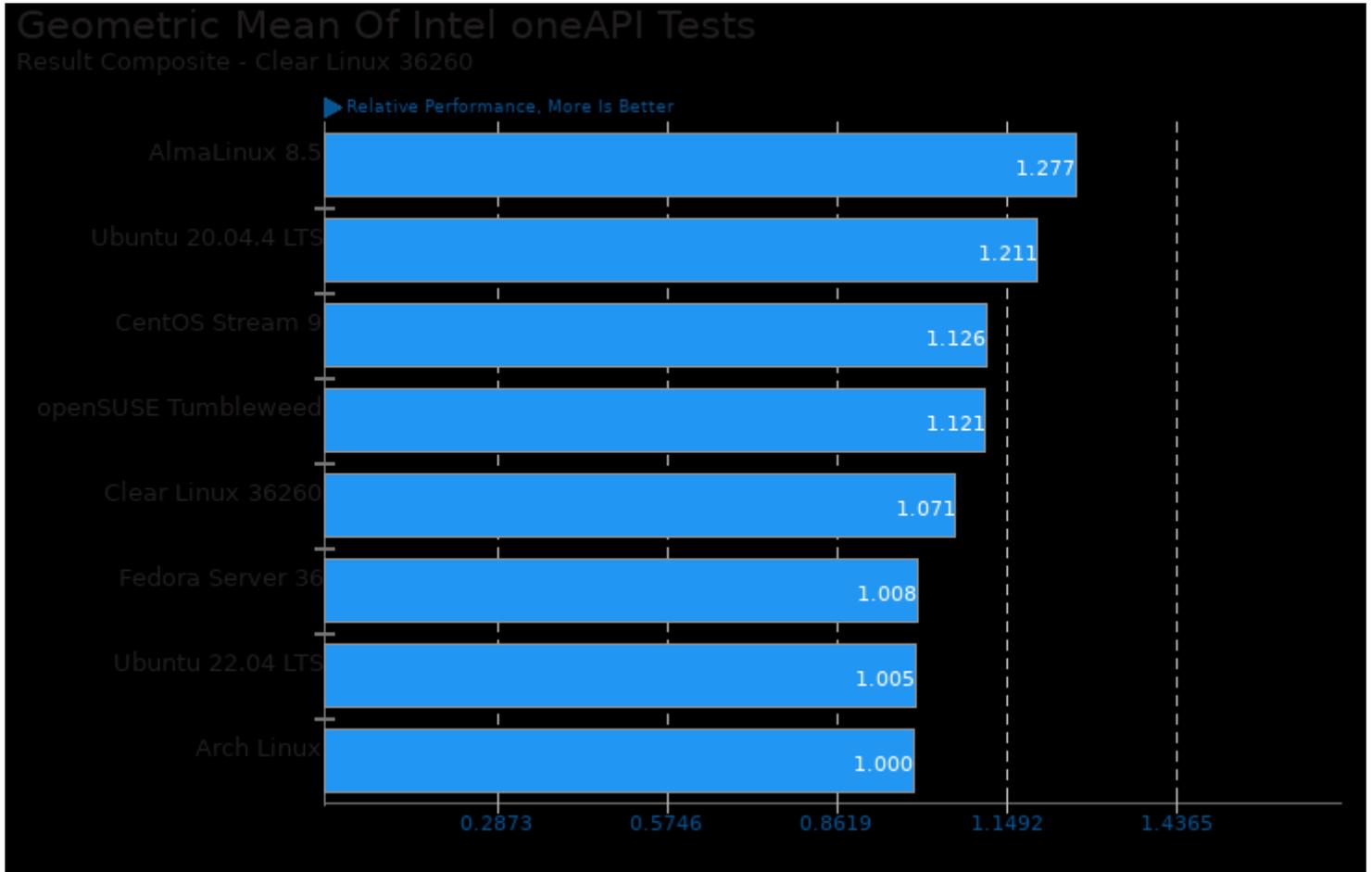
Geometric mean based upon tests: pts/lammps, pts/incompact3d, pts/gromacs and pts/pennant



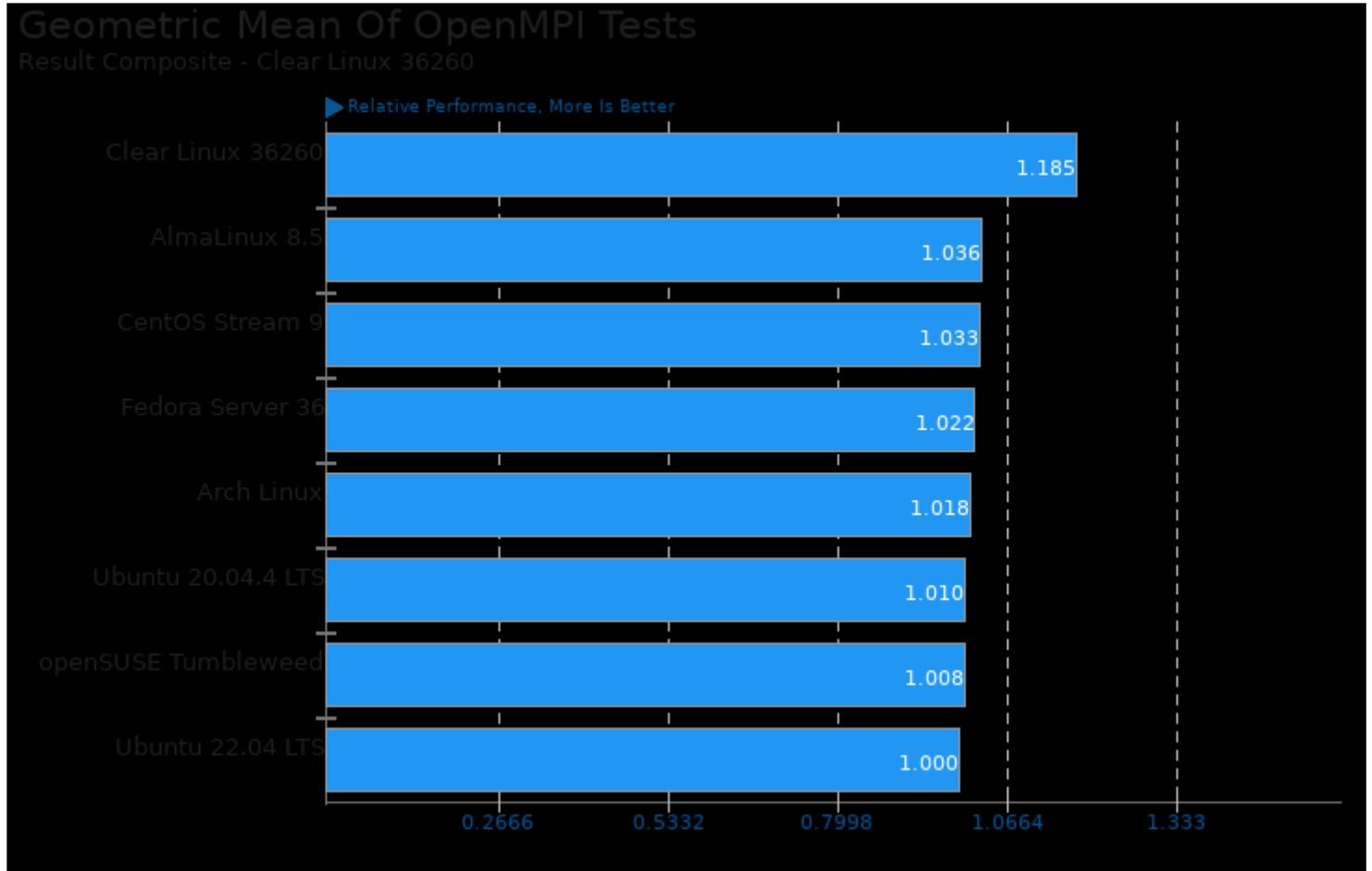
Geometric mean based upon tests: pts/blender, pts/ospray, pts/tachyon, pts/stockfish, pts/svt-vp9, pts/svt-hevc, pts/svt-av1, pts/avifenc, pts/pennant, pts/onednn, pts/lammps, pts/gromacs, pts/compress-zstd, pts/build-gem5, pts/luxcorerender and pts/embree



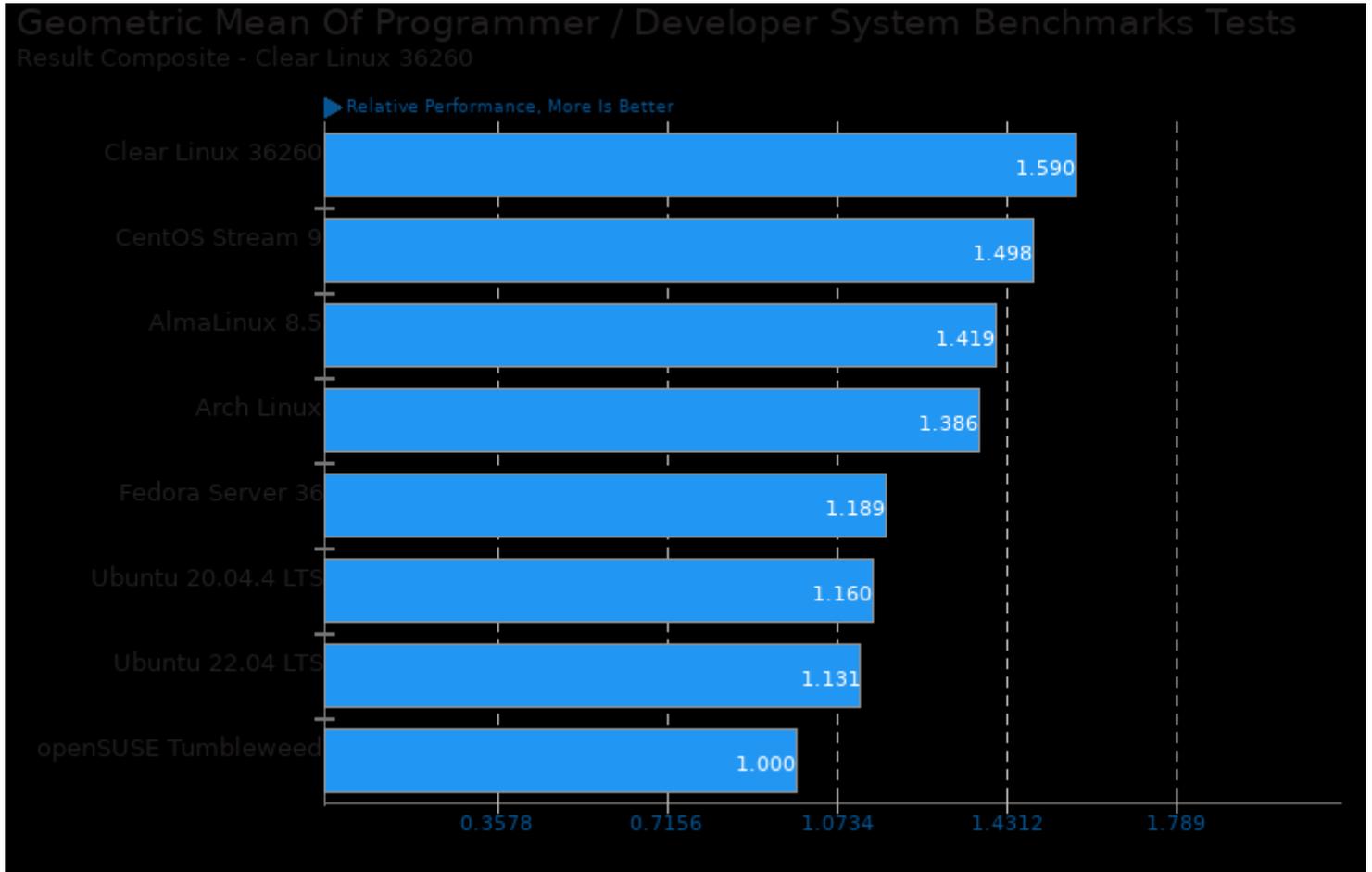
Geometric mean based upon tests: pts/gromacs, pts/luxcorerender and pts/blender



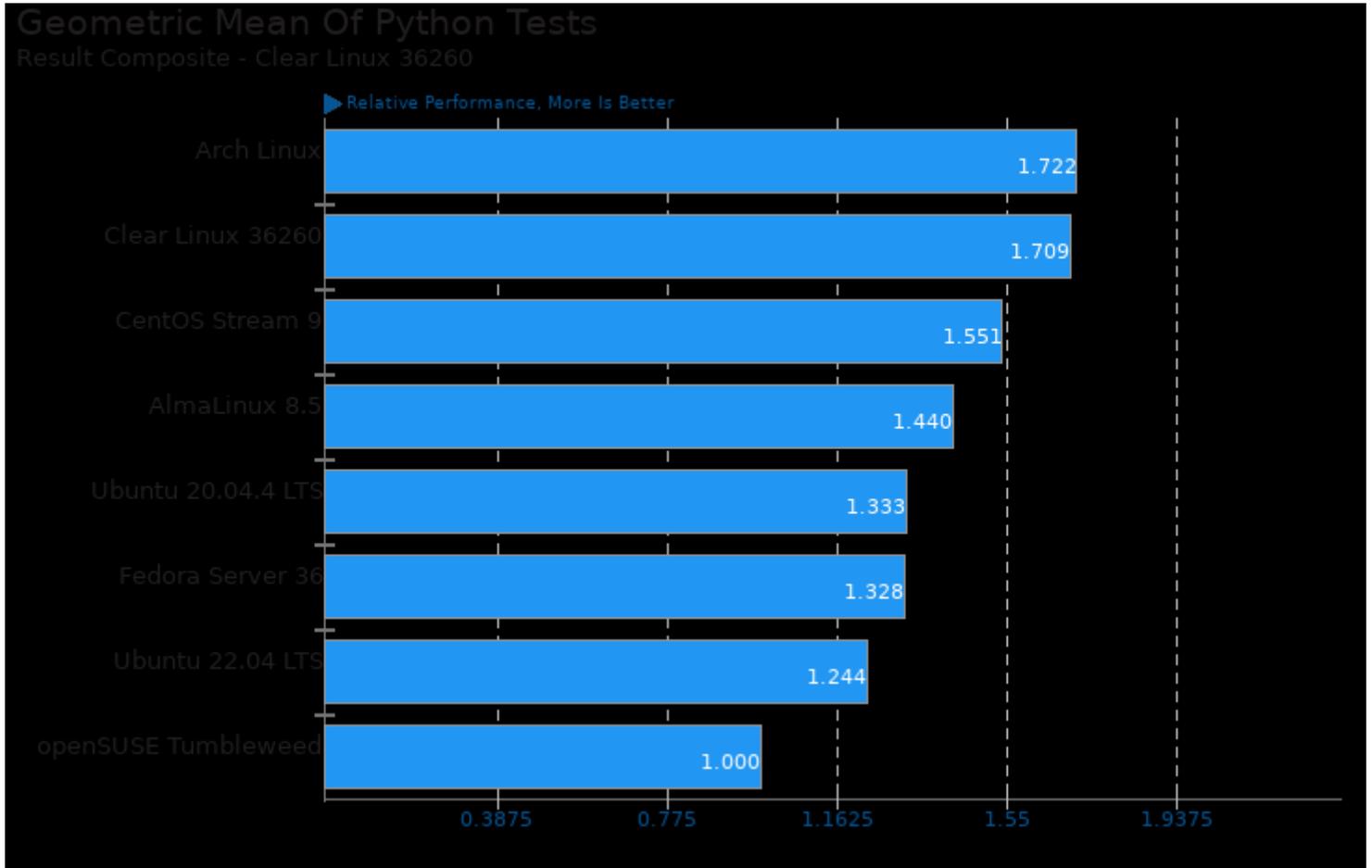
Geometric mean based upon tests: pts/embree, pts/onednn and pts/ospray



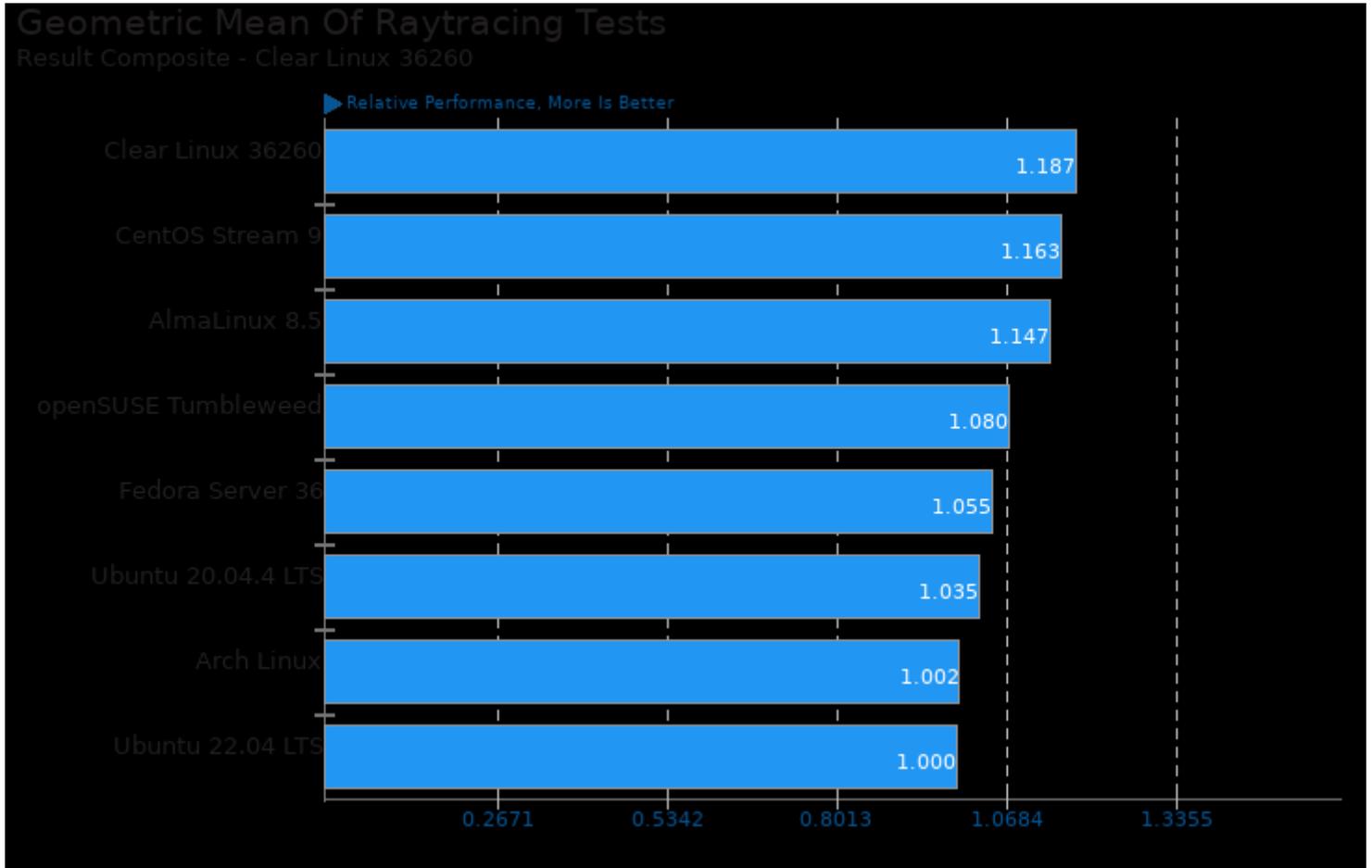
Geometric mean based upon tests: pts/amg, pts/gromacs, pts/lammps, pts/pennant and pts/incompact3d



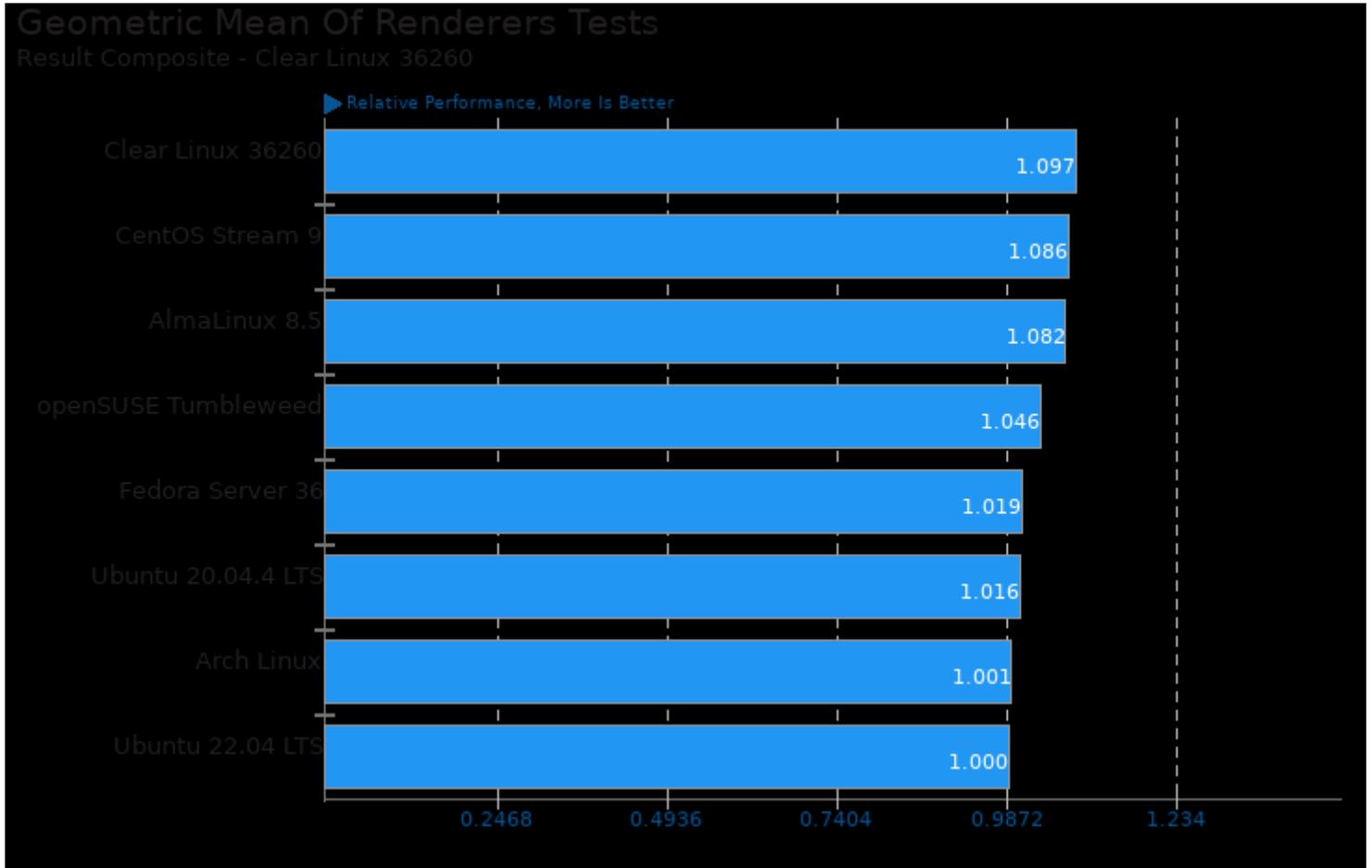
Geometric mean based upon tests: pts/compress-zstd, pts/pyperformance, pts/pybench, pts/build-gem5 and pts/amg



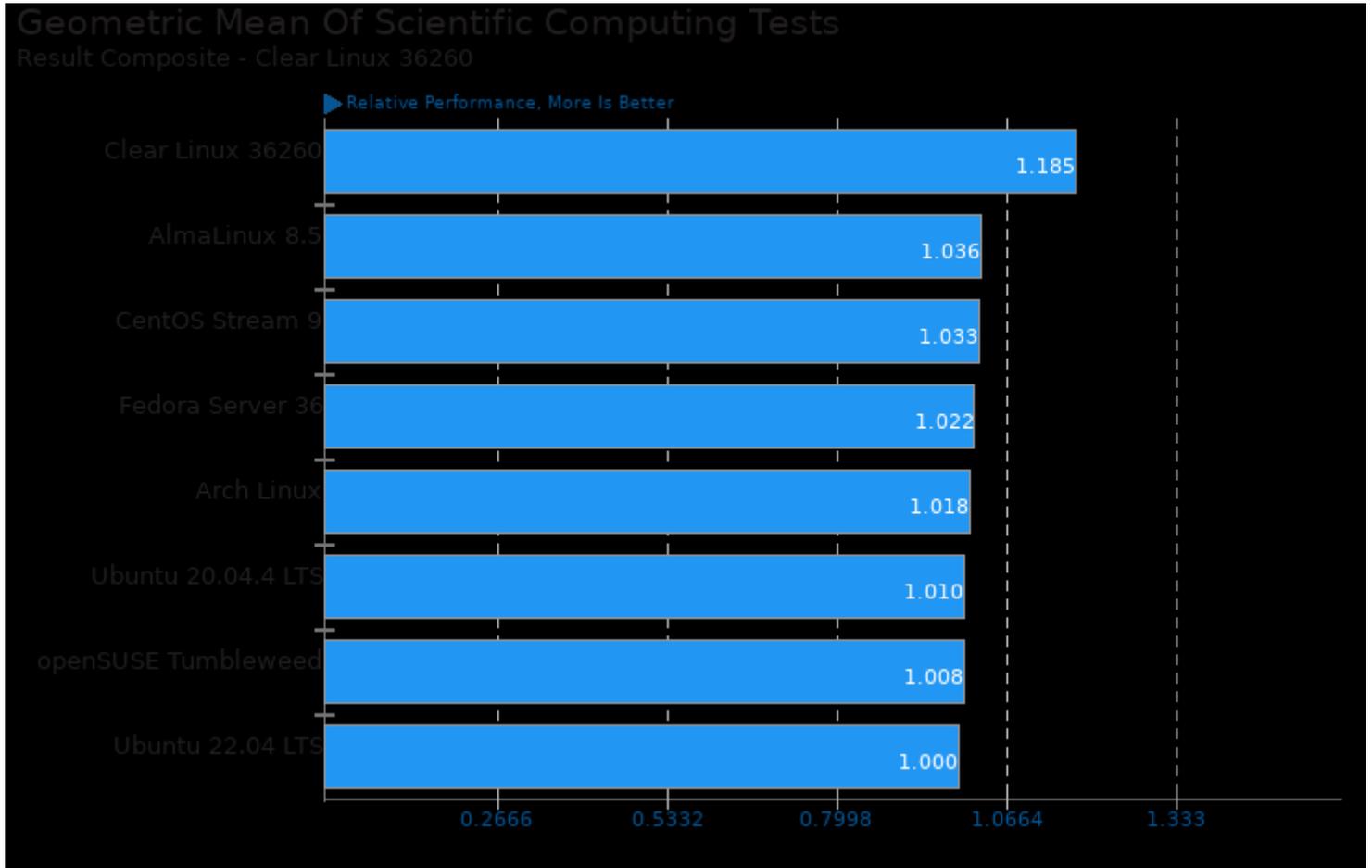
Geometric mean based upon tests: pts/pybench, pts/numpy and pts/pyperformance



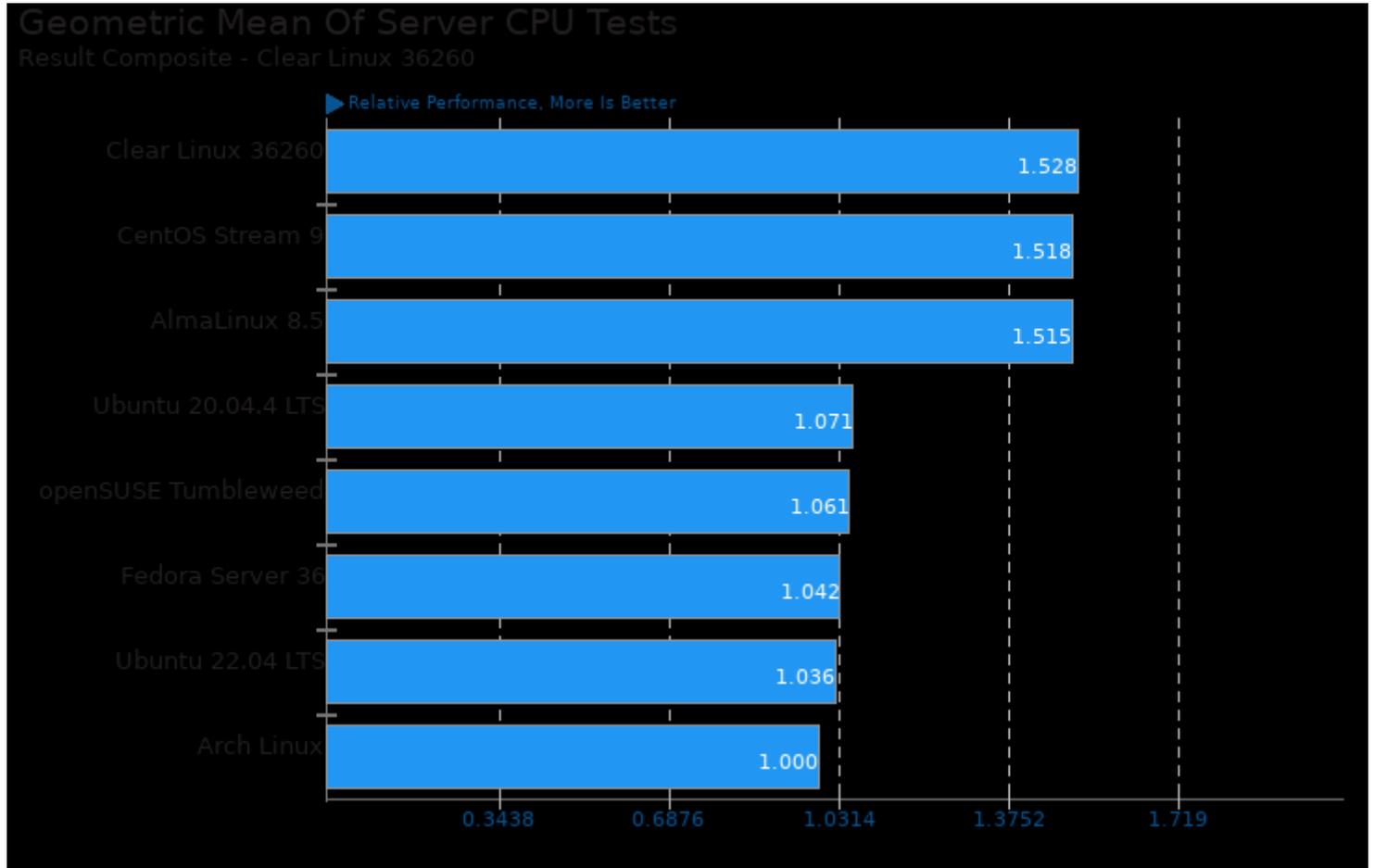
Geometric mean based upon tests: pts/ospray and pts/tachyon



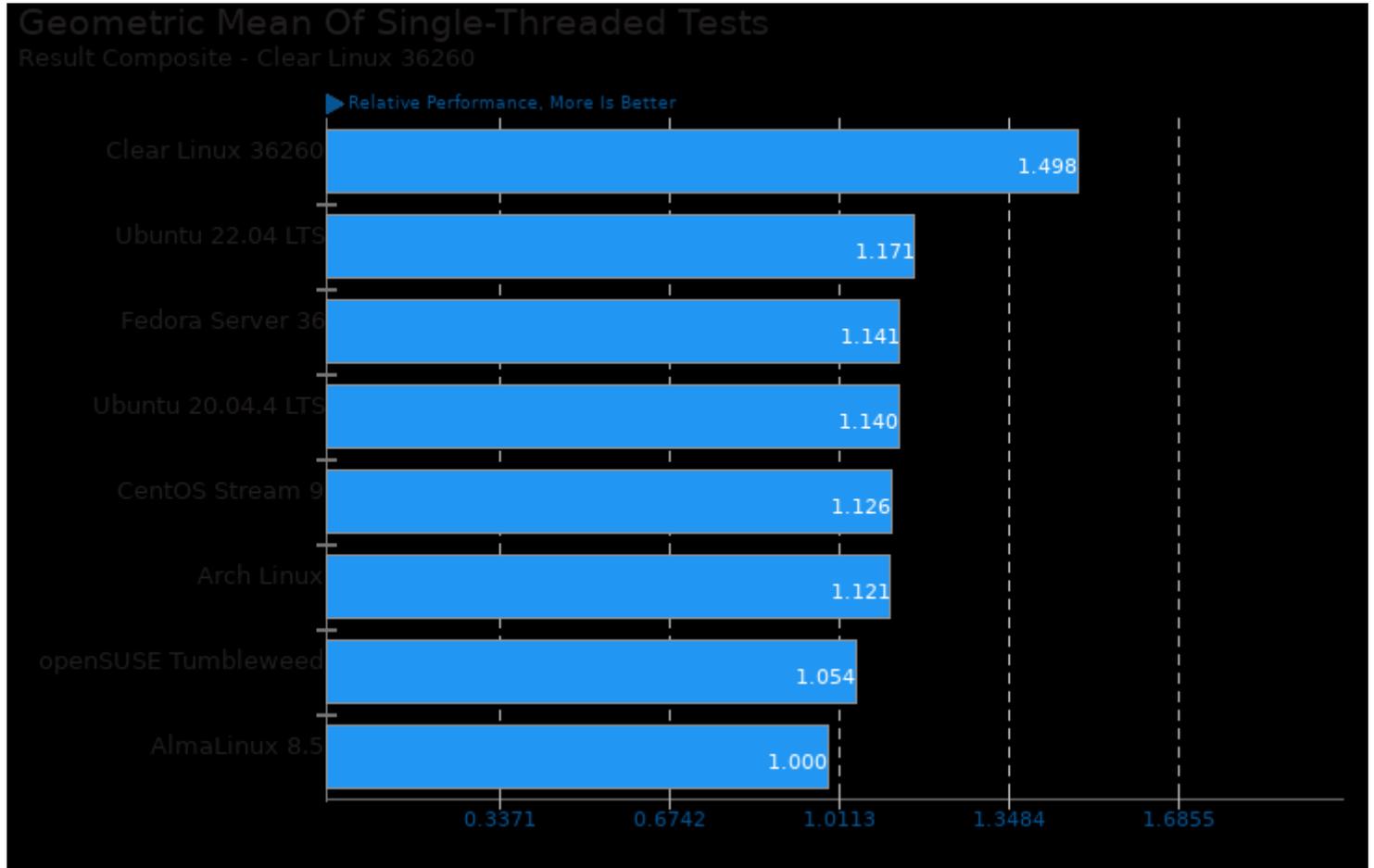
Geometric mean based upon tests: pts/ospray, pts/tachyon, pts/blender and pts/luxcorerender



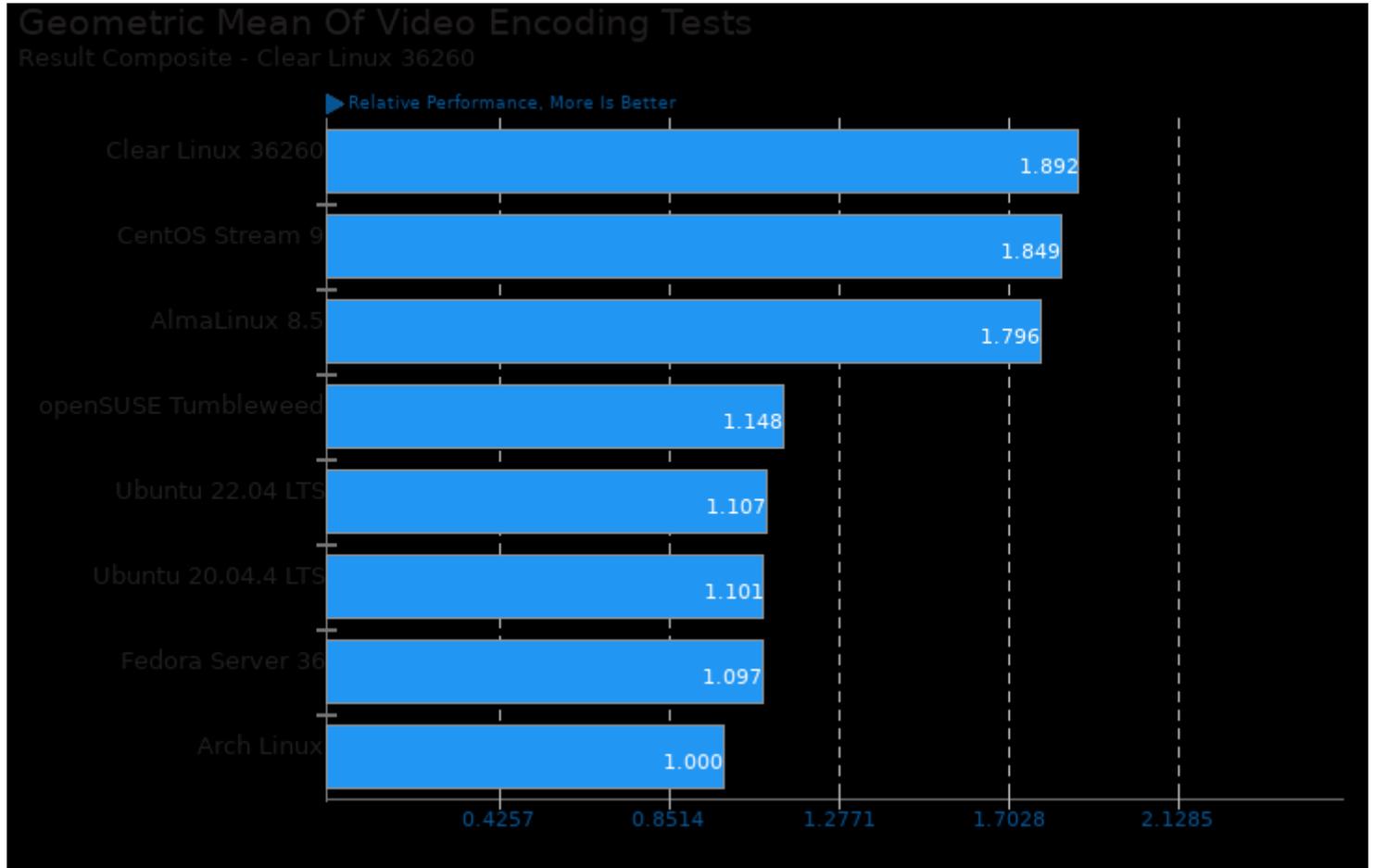
Geometric mean based upon tests: pts/amg, pts/gromacs, pts/lammps, pts/pennant and pts/incompact3d



Geometric mean based upon tests: pts/dacapobench, pts/renaissance, pts/onednn, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/stockfish, pts/compress-zstd, pts/stress-ng, pts/blender, pts/pybench, pts/numpy and pts/phpbench



Geometric mean based upon tests: pts/numpy, pts/pybench, pts/phpbench and pts/nginx



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/svt-av1 and pts/avifenc

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 02:04.*