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Linux 5.15 Intel   Patch Rocket Lake

Intel Core i9-11900K regression testing of Linux 5.15 by Michael Larabel.

Automated Executive Summary

flush-in-the-ref came in first place for 68% of the tests.

Based on the geometric mean of all complete results, the fastest (flush-in-the-ref) was 1.045x the speed of the slowest (Linux 5.15-rc1). 5.15 3reverts was 0.998x the speed of flush-in-the-ref, Linux 5.14 was 0.997x the speed of 5.15 3reverts, Linux 5.15-rc1 was 0.961x the speed of Linux 5.14.

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

Stress-NG (Test: MMAP) at 1.139x
Stress-NG (Test: MEMFD) at 1.121x
JPEG XL Decoding libjxl (CPU Threads: All) at 1.104x
RawTherapee (Total Benchmark Time) at 1.061x
JPEG XL libjxl (Input: JPEG - Encode Speed: 5) at 1.053x
Timed LLVM Compilation (Build System: Unix Makefiles) at 1.046x
Geometric Mean Of All Test Results (Result Composite - Linux 5.15 Intel   Patch Rocket Lake) at 1.045x
JPEG XL libjxl (Input: JPEG - Encode Speed: 7) at 1.041x
JPEG XL libjxl (Input: PNG - Encode Speed: 7) at 1.033x

Timed Godot Game Engine Compilation (Time To Compile) at 1.033x.

Test Systems:

Linux 5.14

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0707 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.14.0-051400-generic (x86_64), Desktop: GNOME Shell 40.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.1), Vulkan: 1.2.168, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

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-oNewfI/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-oNewfI/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 - CPU Microcode: 0x40 - Thermald 2.4.6
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-Ubuntu-0ubuntu3)
Python Notes: Python 3.9.7
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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Linux 5.15-rc1

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0707 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.15.0-rc1-phx (x86_64) 20210913, Desktop: GNOME Shell 40.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.1), Vulkan: 1.2.168, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

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-oNewfI/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-oNewfI/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 - CPU Microcode: 0x40 - Thermald 2.4.6
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-Ubuntu-0ubuntu3)
Python Notes: Python 3.9.7
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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5.15 3reverts

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0707 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.15.0-rc2-3reverts (x86_64) 20210922, Desktop: GNOME Shell 40.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.1), Vulkan: 1.2.168, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

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-oNewfI/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-oNewfI/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 - CPU Microcode: 0x40 - Thermald 2.4.6
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-Ubuntu-0ubuntu3)
Python Notes: Python 3.9.7
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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

flush-in-the-ref

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0707 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

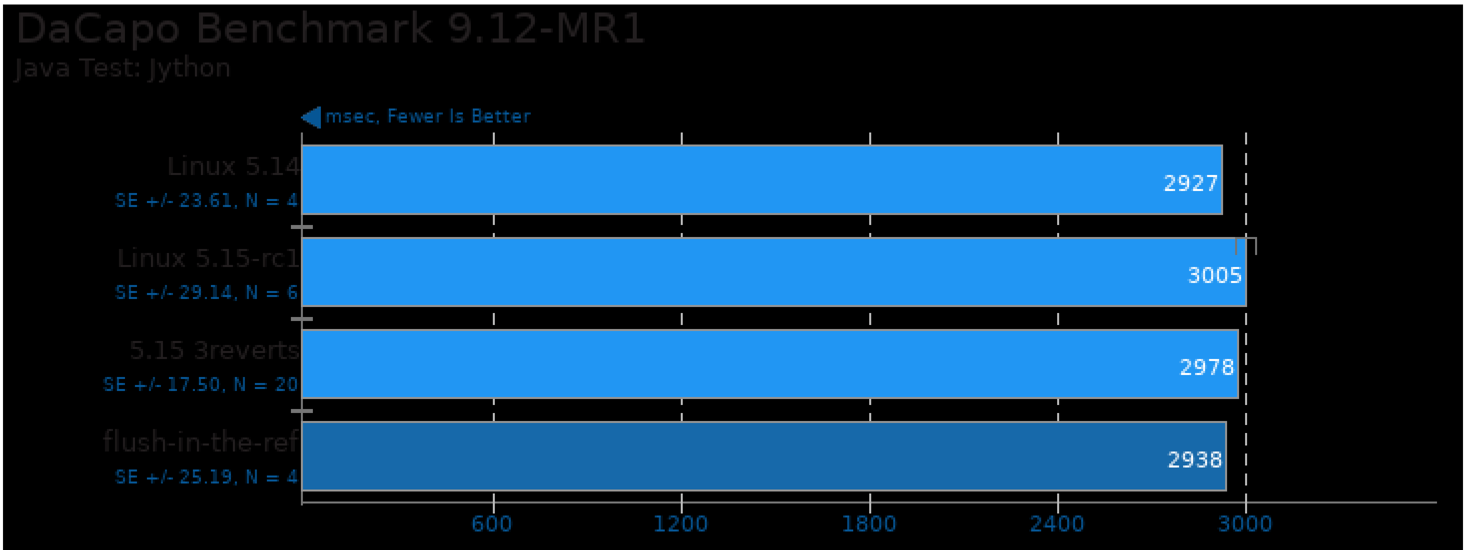
OS: Ubuntu 21.10, Kernel: 5.15.0-rc2-flush-in-the-ref (x86_64) 20210921, Desktop: GNOME Shell 40.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.1), Vulkan: 1.2.168, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

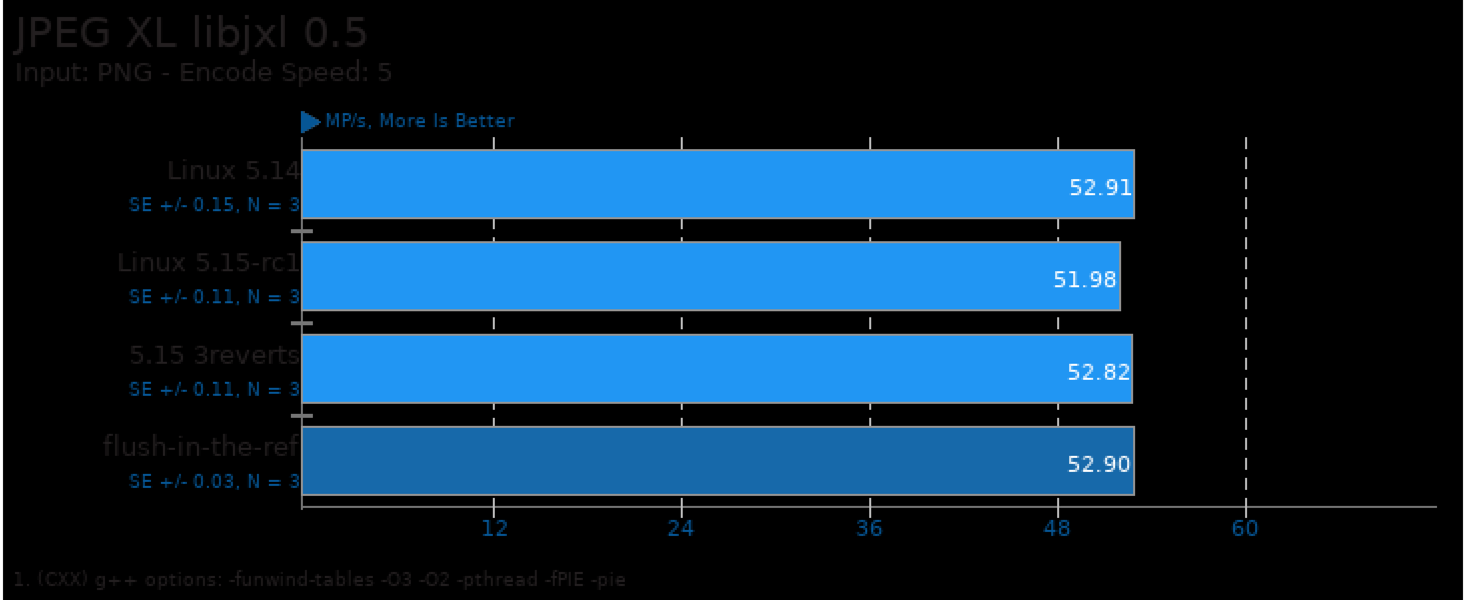
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-oNewfI/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-oNewfI/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 - CPU Microcode: 0x40 - Thermald 2.4.6
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-Ubuntu-0ubuntu3)
Python Notes: Python 3.9.7
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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

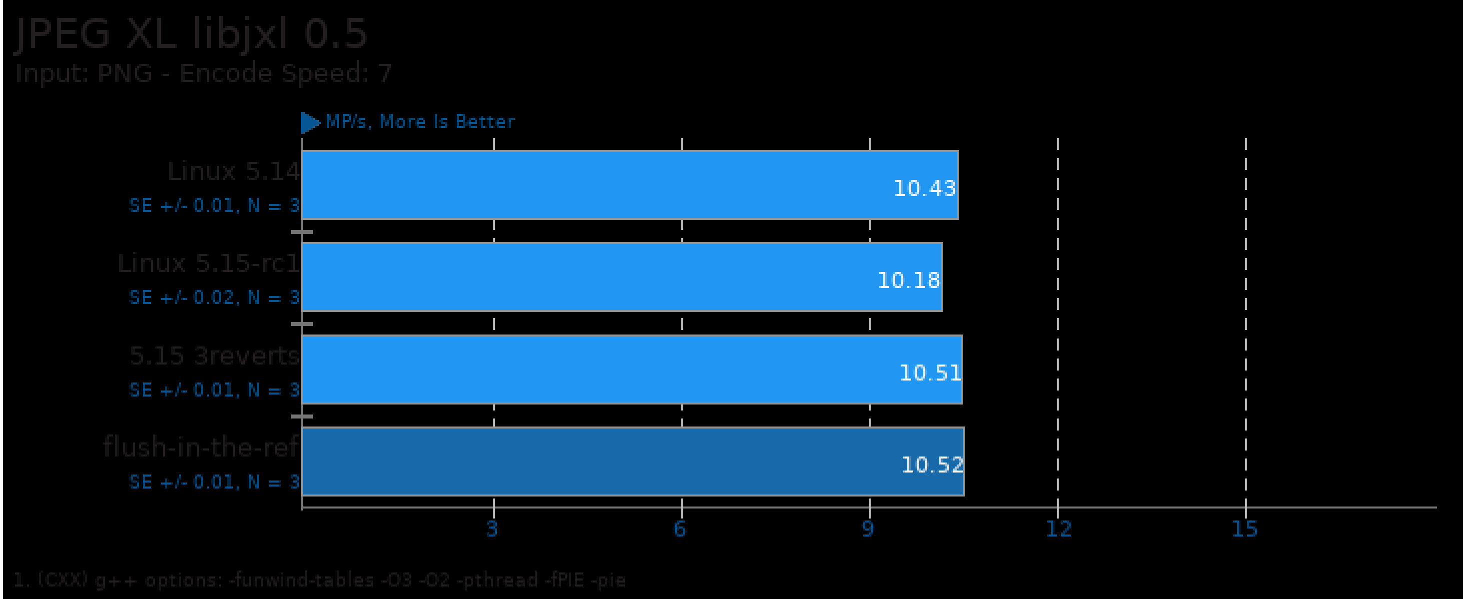
	Linux 5.14	Linux 5.15-rc1	5.15 3reverts	flush-in-the-ref
DaCapo Benchmark - Jython (msec)	2927	3005	2978	2938
Normalized	100.38%	97.77%	98.66%	100%
Standard Deviation	1.6%	2.4%	2.6%	1.7%
JPEG XL libjxl - PNG - 5 (MP/s)	52.91	51.98	52.82	52.90

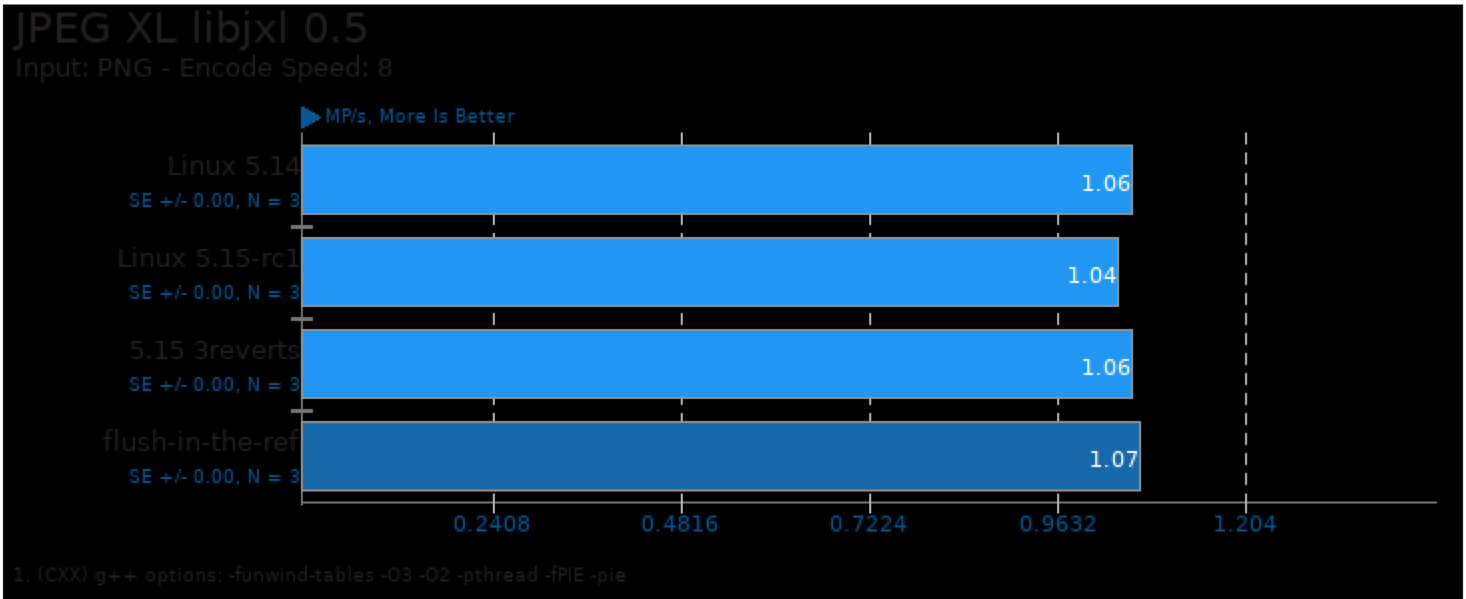
Normalized	100.02%	98.26%	99.85%	100%
Standard Deviation	0.5%	0.4%	0.4%	0.1%
JPEG XL libjxl - PNG - 7 (MP/s)	10.43	**10.18**	10.51	**10.52**
Normalized	99.14%	96.77%	99.9%	100%
Standard Deviation	0.1%	0.3%	0.2%	0.1%
JPEG XL libjxl - PNG - 8 (MP/s)	1.06	**1.04**	1.06	**1.07**
Normalized	99.07%	97.2%	99.07%	100%
Standard Deviation	0.5%	0.6%	0%	0%
JPEG XL libjxl - JPEG - 5 (MP/s)	101.84	**97.60**	102.70	**102.77**
Normalized	99.1%	94.97%	99.93%	100%
Standard Deviation	0.1%	0.2%	0.3%	0.2%
JPEG XL libjxl - JPEG - 7 (MP/s)	101.80	**98.11**	102.01	**102.11**
Normalized	99.7%	96.08%	99.9%	100%
Standard Deviation	0.2%	0.3%	0.4%	0.4%
JPEG XL libjxl - JPEG - 8 (MP/s)	**38.62**	**37.77**	38.37	38.39
Normalized	100.6%	98.38%	99.95%	100%
Standard Deviation	0.6%	0.3%	0.4%	0.8%
JPEG XL Decoding libjxl - 1 (MP/s)	75.36	**73.64**	75.47	**75.61**
Normalized	99.67%	97.39%	99.81%	100%
Standard Deviation	0.1%	0.2%	0.4%	0.2%
JPEG XL Decoding libjxl - All (MP/s)	364.49	**333.58**	366.87	**368.39**
Normalized	98.94%	90.55%	99.59%	100%
Standard Deviation	0.2%	0%	0.2%	0.3%
Timed FFmpeg Compilation - Time To Compile (sec)	47.361	**48.576**	47.368	**47.307**
Normalized	99.89%	97.39%	99.87%	100%
Standard Deviation	0.2%	0.1%	0.3%	0.1%
Timed Godot Game Engine Compilation - Time To Compile (sec)	105.111	**108.345**	104.909	**104.851**
Normalized	99.75%	96.78%	99.94%	100%
Standard Deviation	0%	0.2%	0.1%	0%
Timed Linux Kernel Compilation - Time To Compile (sec)	77.007	**79.245**	76.984	**76.956**
Normalized	99.93%	97.11%	99.96%	100%
Standard Deviation	1.8%	0.7%	1.8%	1.9%
Timed LLVM Compilation - Ninja (sec)	591.371	**606.751**	**590.275**	590.629
Normalized	99.87%	97.34%	100.06%	100%
Standard Deviation	0%	0%	0%	0%
Timed LLVM Compilation - Unix Makefiles (sec)	607.175	**629.217**	601.472	**601.293**
Normalized	99.03%	95.56%	99.97%	100%
Standard Deviation	0.9%	0.7%	0.3%	0.1%
Timed Mesa Compilation - Time To Compile (sec)	44.775	**45.693**	44.771	**44.741**
Normalized	99.92%	97.92%	99.93%	100%
Standard Deviation	0.2%	0.4%	0.1%	0.3%
Timed Node.js Compilation - Time To Compile (sec)	392.807	**403.938**	**391.871**	392.333
Normalized	99.88%	97.13%	100.12%	100%
Standard Deviation	0.1%	0%	0.1%	0.1%
RawTherapee - T.B.T (sec)	50.649	**53.496**	50.658	**50.419**
Normalized	99.55%	94.25%	99.53%	100%
Standard Deviation	0.1%	0.1%	0.2%	0.2%
Stress-NG - MMAP (Bogo Ops/s)	267.63	**237.95**	269.32	**270.92**

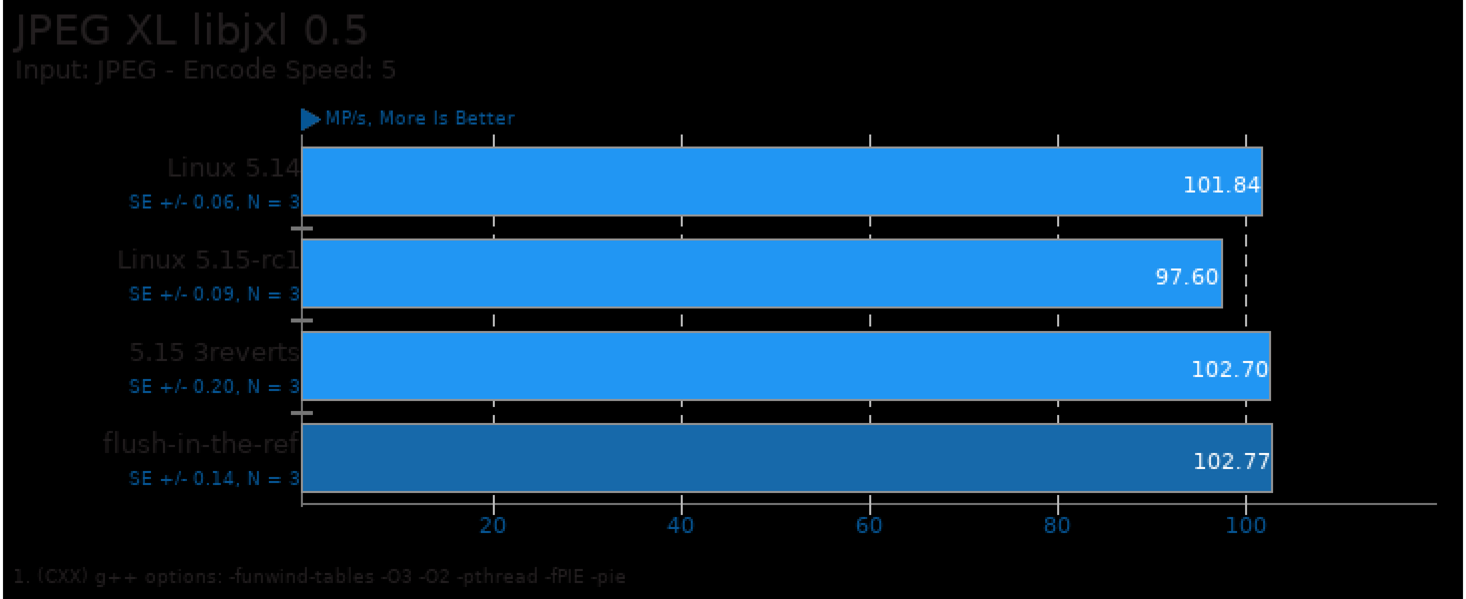
Normalized	98.79%	87.83%	99.41%	100%
Standard Deviation	0.8%	1%	0.8%	0.9%
Stress-NG - MEMFD (Bogo Ops/s)	975.07	**898.53**	**1007**	1003
Normalized	97.21%	89.58%	100.42%	100%
Standard Deviation	0.1%	0.1%	0.1%	0.3%
Geometric Mean Of All Test Results - Result Composite - L.5.1.I.P.R.L (Geometric Mean)	6.679	**6.421**	6.699	**6.713**
Normalized	99.49%	95.65%	99.79%	100%


DaCapo Benchmark 9.12-MR1
Java Test: Jython
msec, Fewer Is Better
Linux 5.14
SE +/- 23.61, N = 4
2927
Linux 5.15-rc1
SE +/- 29.14, N = 6
3005
5.15 3reverts
SE +/- 17.50, N = 20
2978
flush-in-the-ref
SE +/- 25.19, N = 4
2938
600
1200
1800
2400
3000

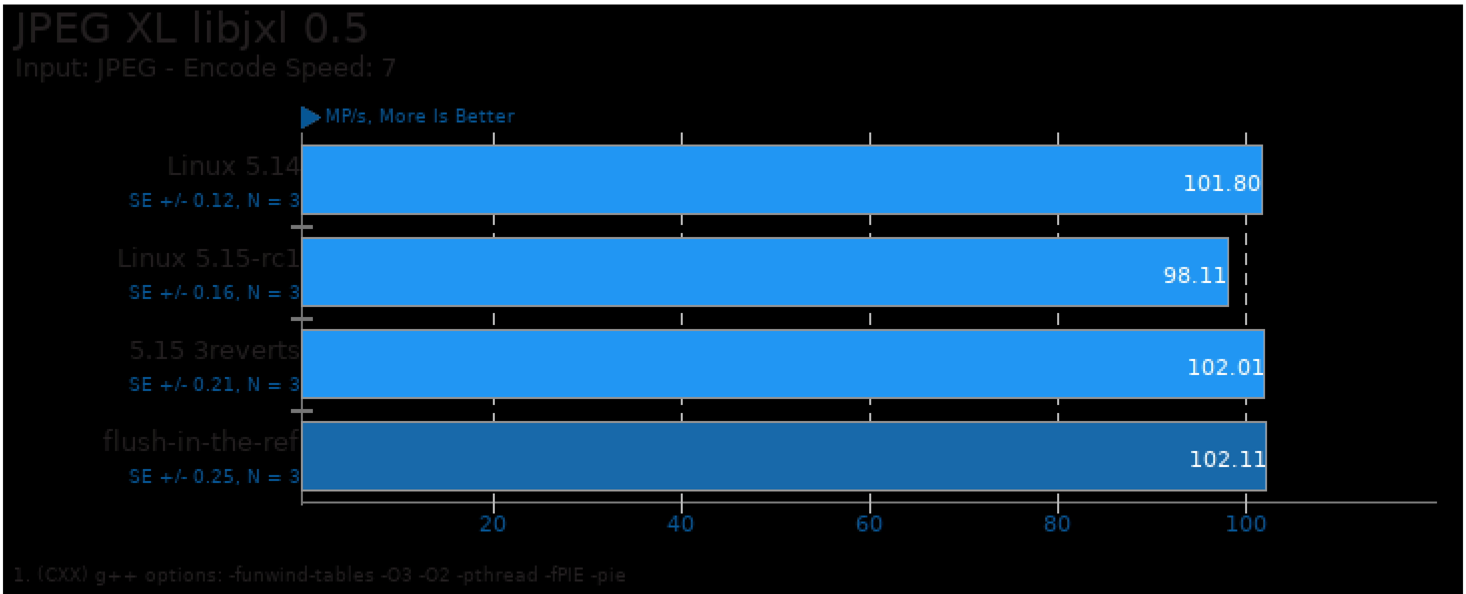

JPEG XL libjxl 0.5
Input: PNG - Encode Speed: 5
MP/s, More Is Better
Linux 5.14
SE +/- 0.15, N = 3
52.91
Linux 5.15-rc1
SE +/- 0.11, N = 3
51.98
5.15 3reverts
SE +/- 0.11, N = 3
52.82
flush-in-the-ref
SE +/- 0.03, N = 3
52.90
12
24
36
48
60
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

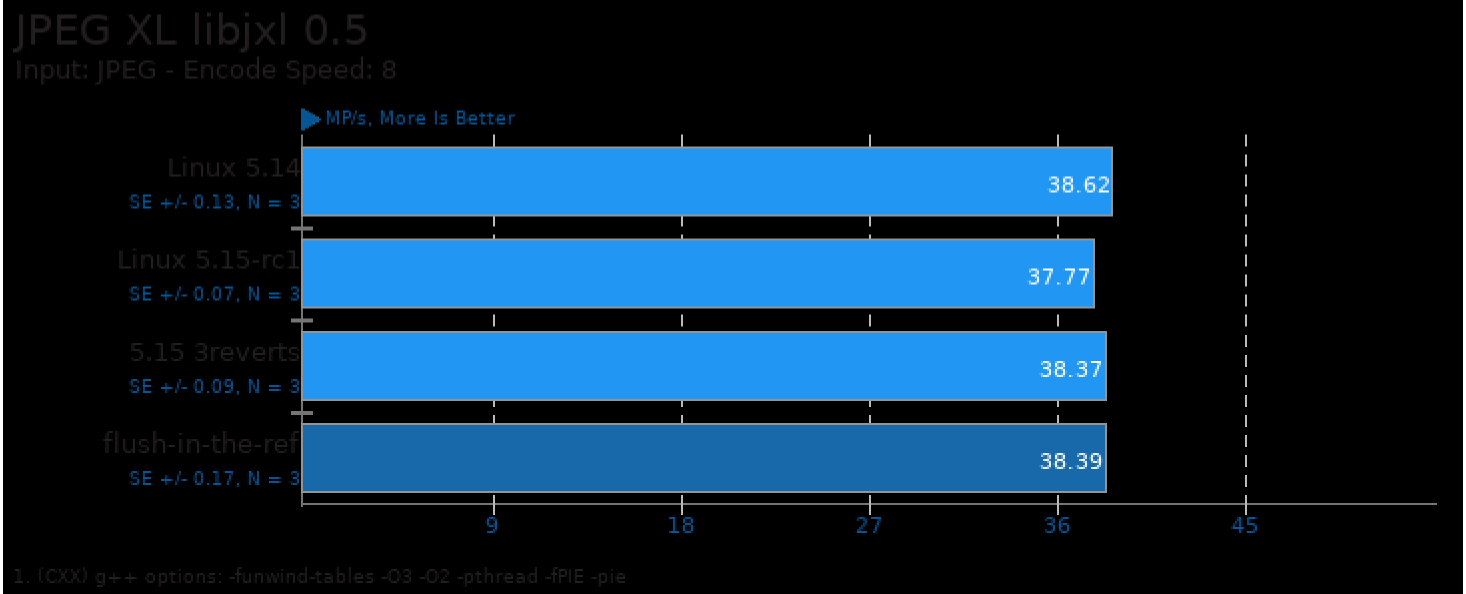

JPEG XL libjxl 0.5
Input: PNG - Encode Speed: 7
MP/s, More Is Better
Linux 5.14
SE +/- 0.01, N = 3
10.43
Linux 5.15-rc1
SE +/- 0.02, N = 3
10.18
5.15 3reverts
SE +/- 0.01, N = 3
10.51
flush-in-the-ref
SE +/- 0.01, N = 3
10.52
3
6
9
12
15
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

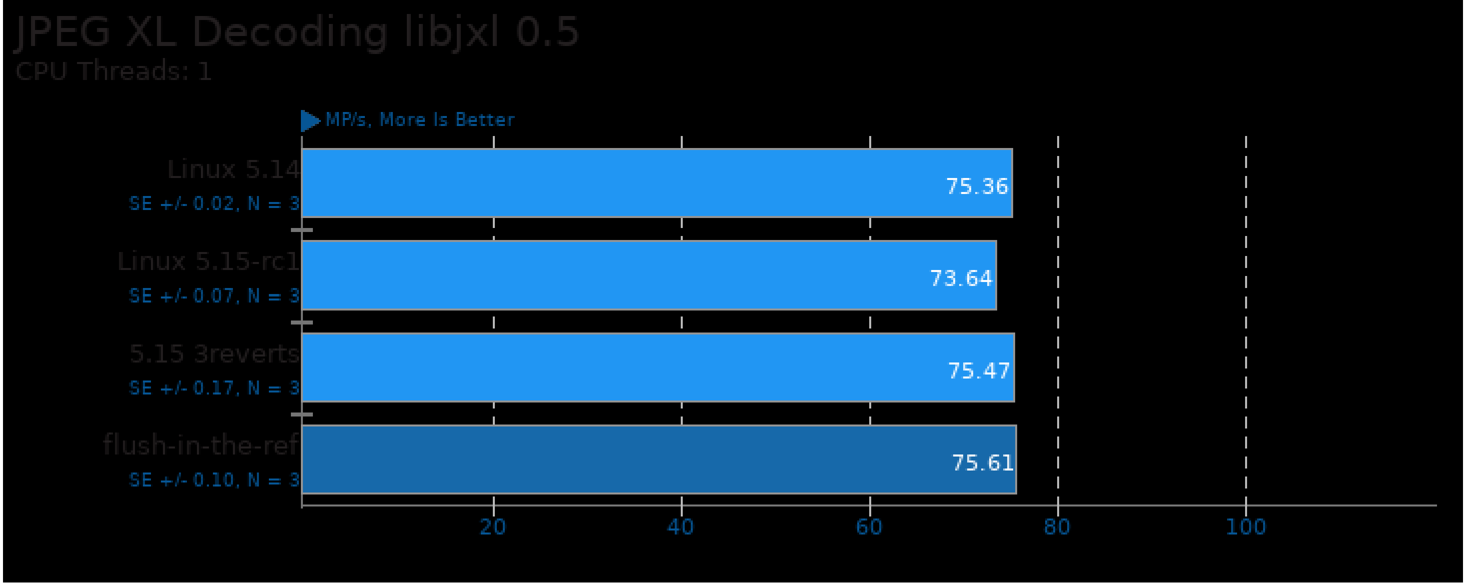

JPEG XL libjxl 0.5
Input: PNG - Encode Speed: 8
MP/s, More Is Better
Linux 5.14
SE +/- 0.00, N = 3
1.06
Linux 5.15-rc1
SE +/- 0.00, N = 3
1.04
5.15 3reverts
SE +/- 0.00, N = 3
1.06
flush-in-the-ref
SE +/- 0.00, N = 3
1.07
0.2408
0.4816
0.7224
0.9632
1.204
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

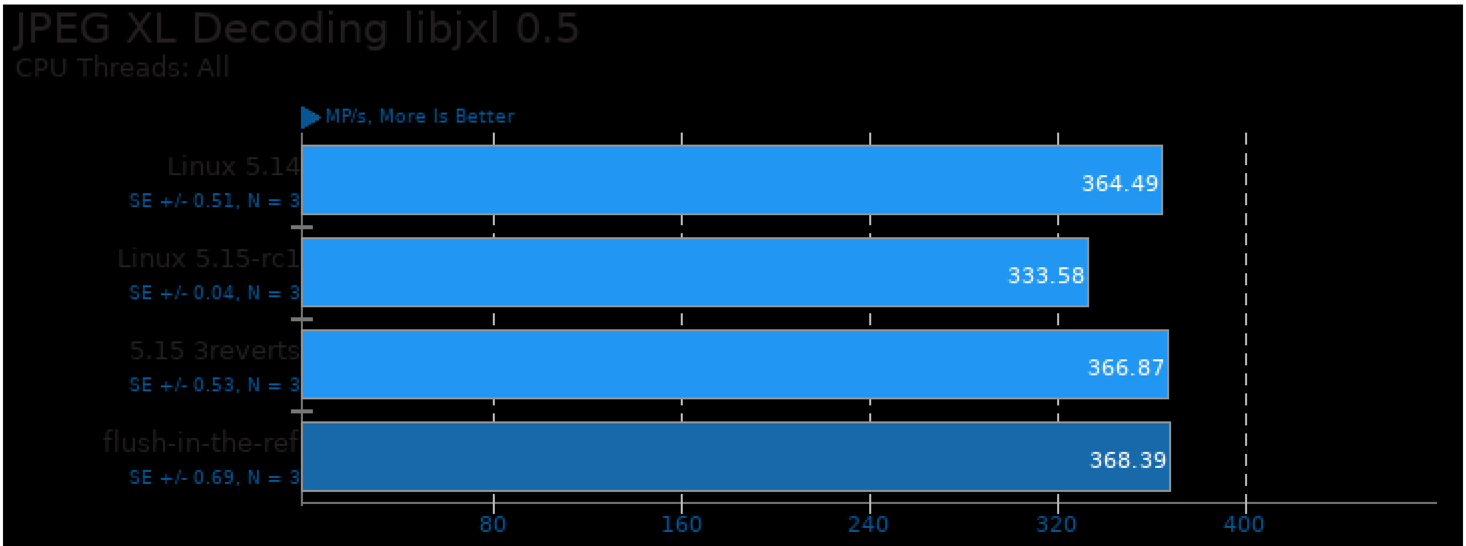

JPEG XL libjxl 0.5
Input: JPEG - Encode Speed: 5
MP/s, More Is Better
Linux 5.14
SE +/- 0.06, N = 3
101.84
Linux 5.15-rc1
SE +/- 0.09, N = 3
97.60
5.15 3reverts
SE +/- 0.20, N = 3
102.70
flush-in-the-ref
SE +/- 0.14, N = 3
102.77
20
40
60
80
100
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

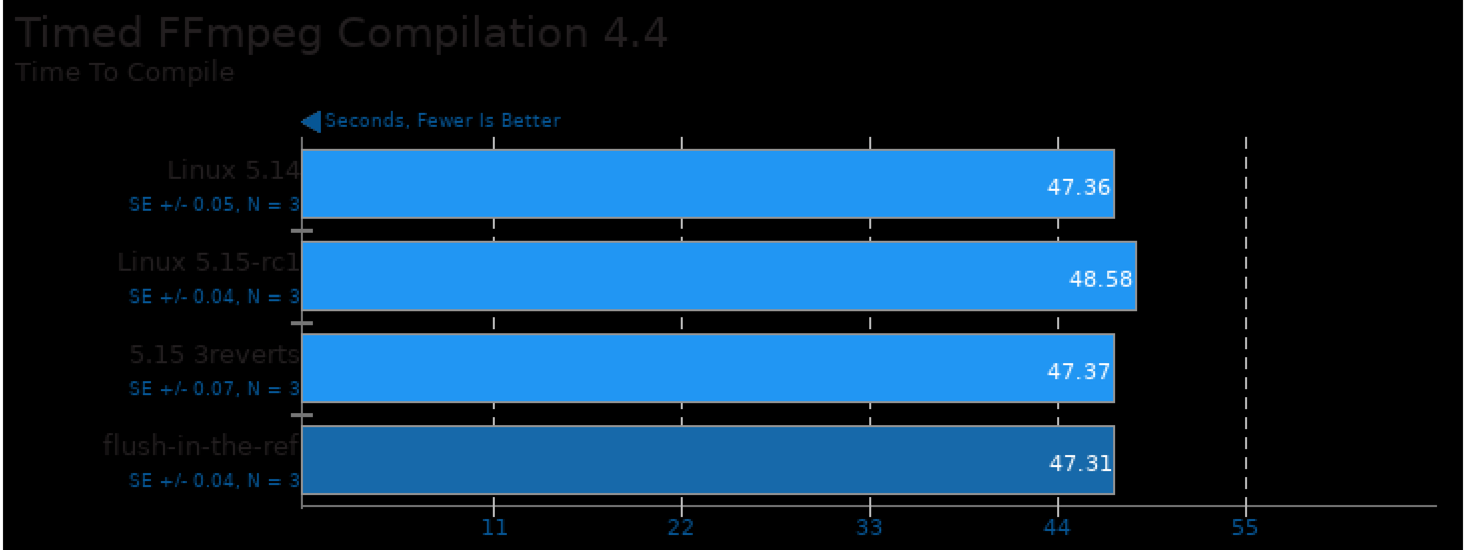
Linux 5.15 Intel   Patch Rocket Lake

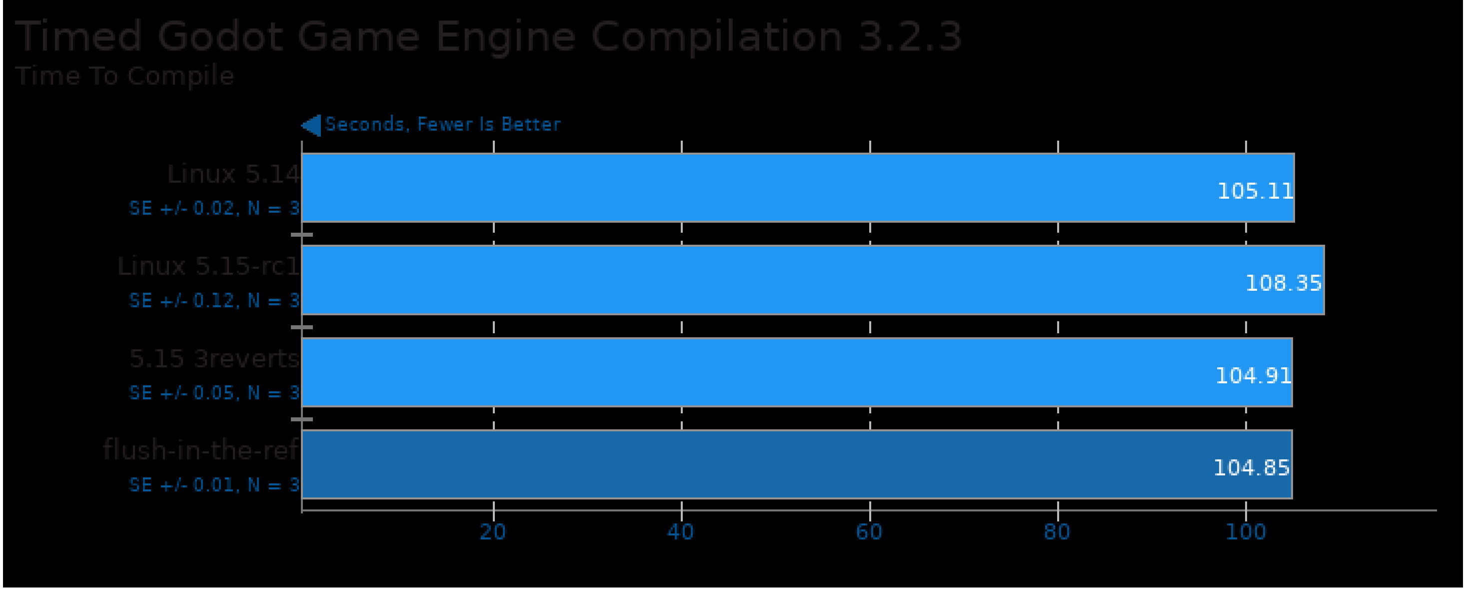


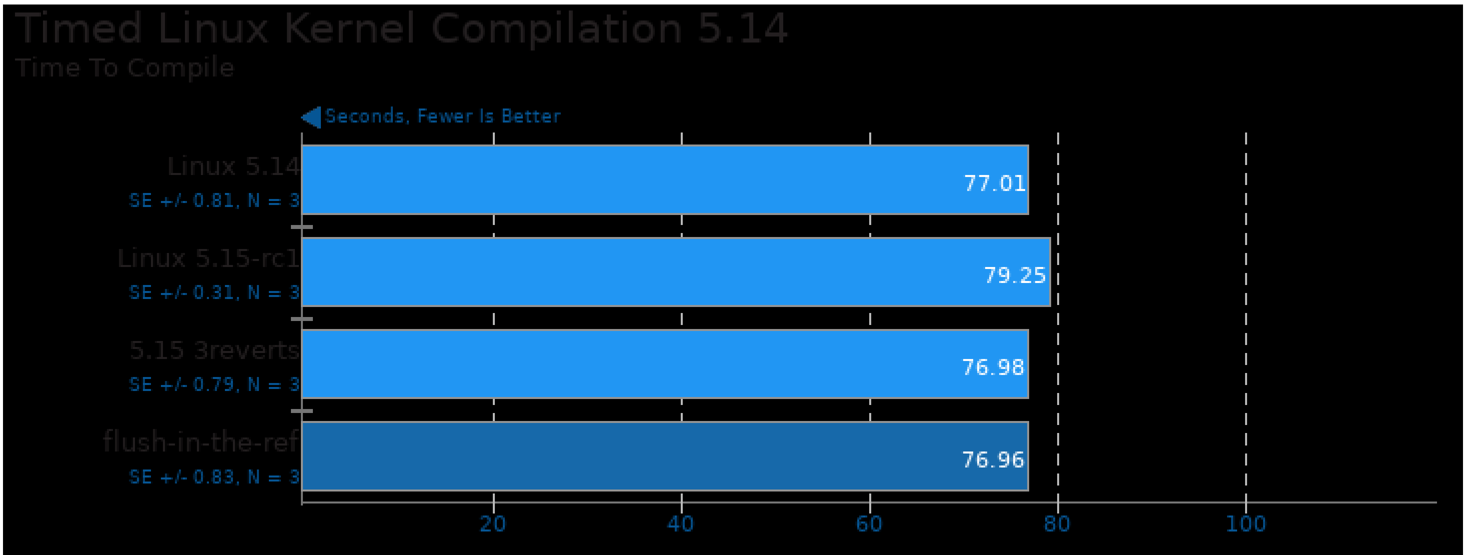


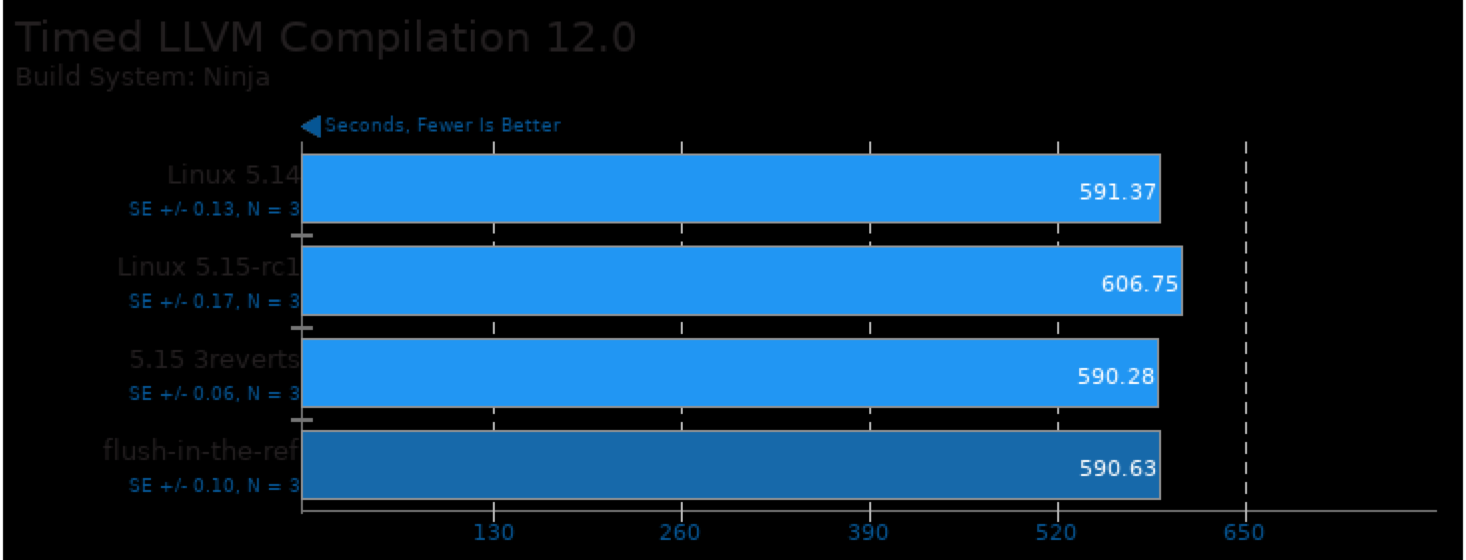


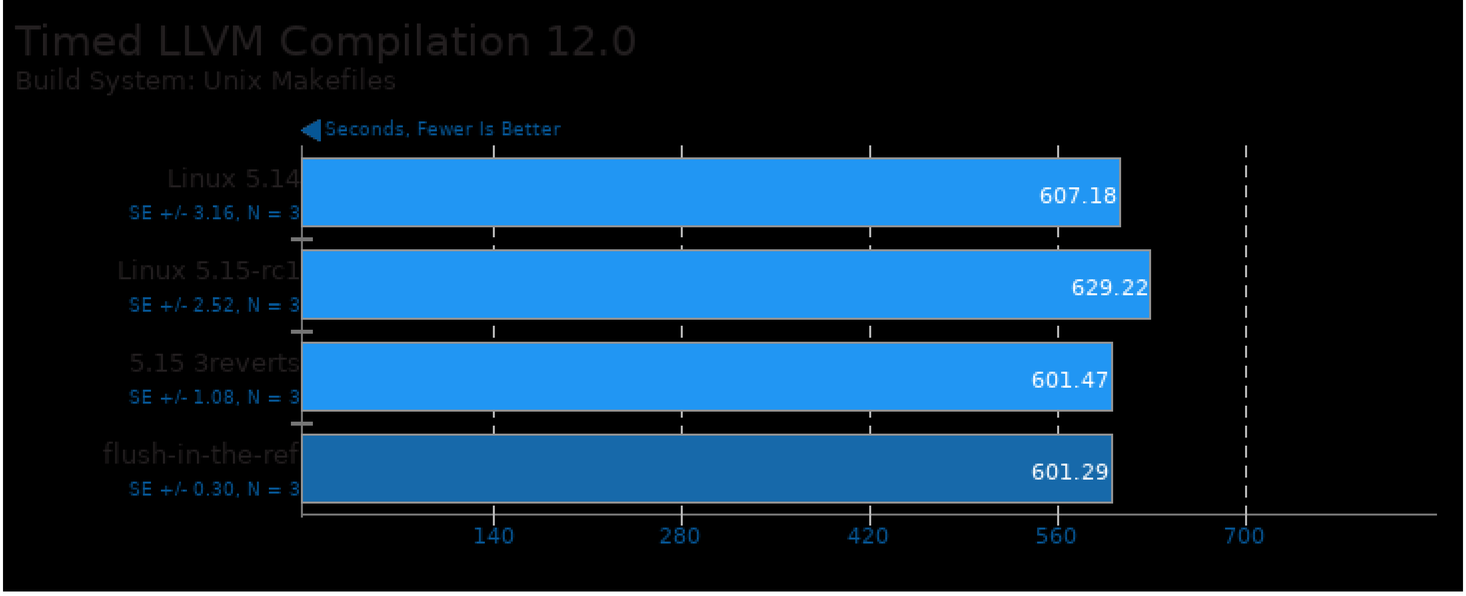

JPEG XL Decoding libjxl 0.5
CPU Threads: All
MP/s, More Is Better
Linux 5.14
SE +/- 0.51, N = 3
364.49
Linux 5.15-rc1
SE +/- 0.04, N = 3
333.58
5.15 3reverts
SE +/- 0.53, N = 3
366.87
flush-in-the-ref
SE +/- 0.69, N = 3
368.39
80
160
240
320
400

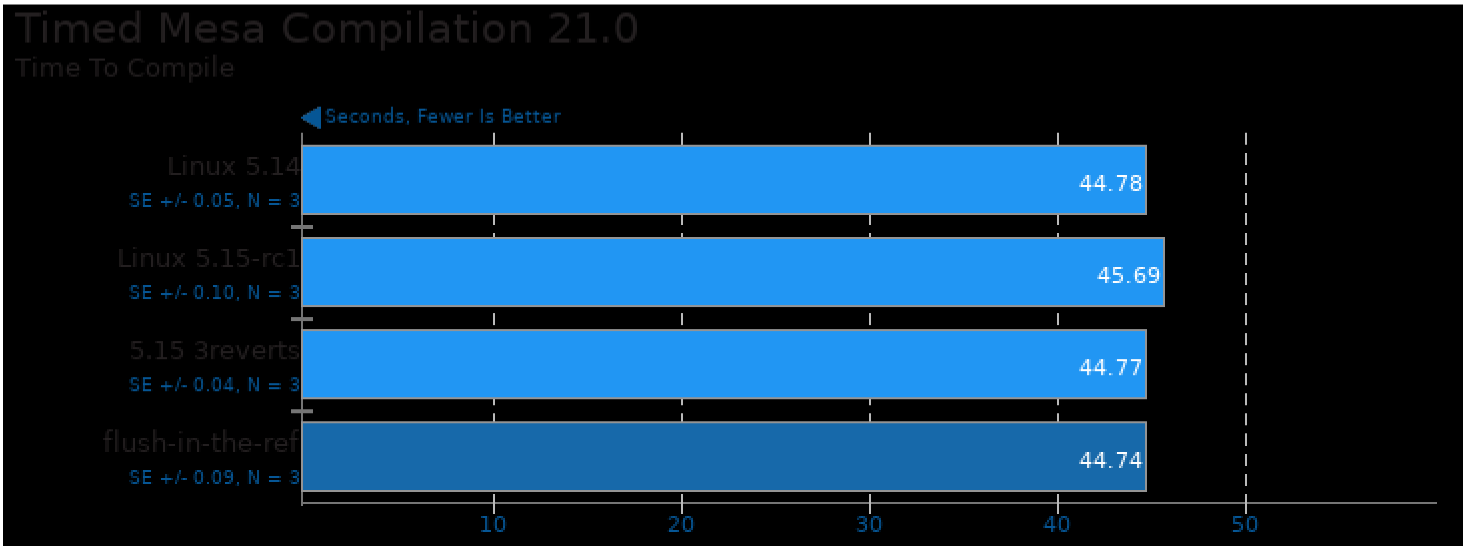

Timed FFmpeg Compilation 4.4
Time To Compile
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.05, N = 3
47.36
Linux 5.15-rc1
SE +/- 0.04, N = 3
48.58
5.15 3reverts
SE +/- 0.07, N = 3
47.37
flush-in-the-ref
SE +/- 0.04, N = 3
47.31
11
22
33
44
55

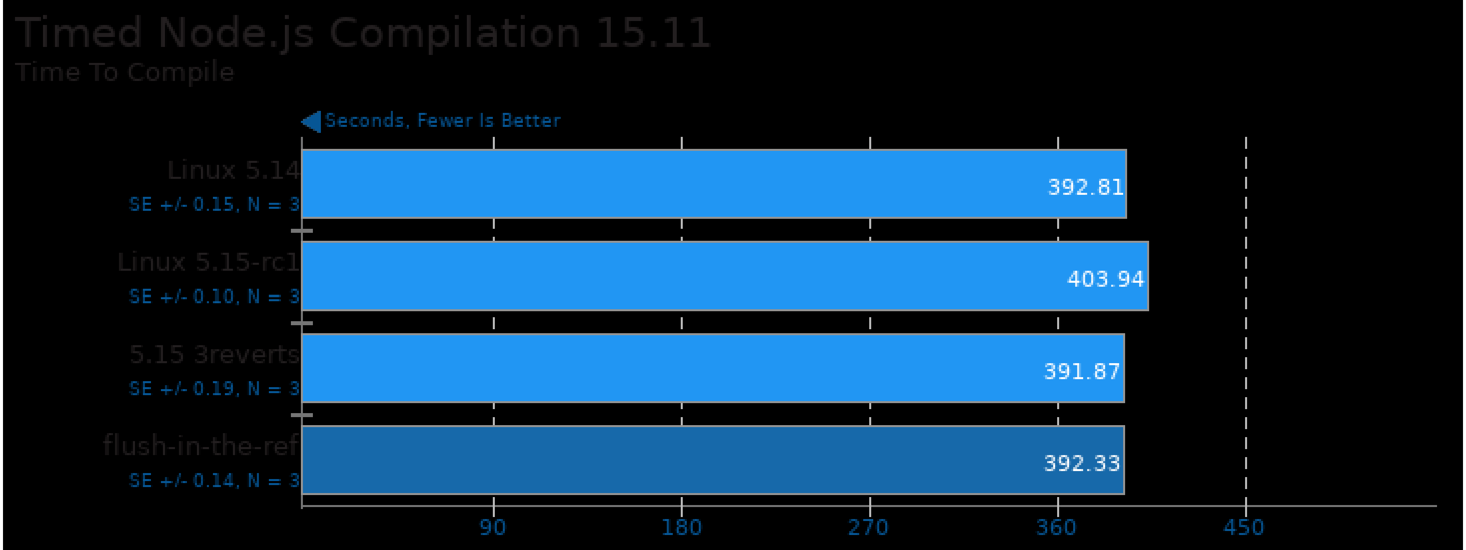

Timed Godot Game Engine Compilation 3.2.3
Time To Compile
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.02, N = 3
105.11
Linux 5.15-rc1
SE +/- 0.12, N = 3
108.35
5.15 3reverts
SE +/- 0.05, N = 3
104.91
flush-in-the-ref
SE +/- 0.01, N = 3
104.85
20
40
60
80
100

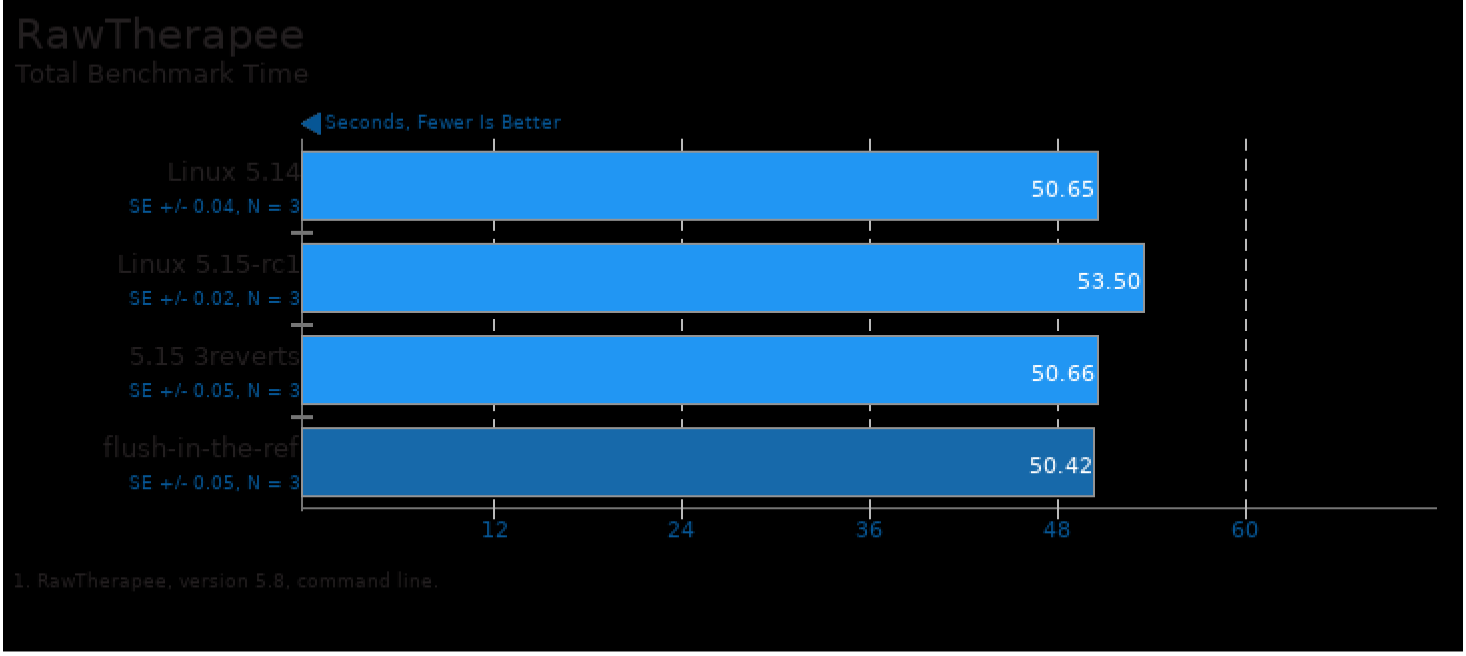

Timed Linux Kernel Compilation 5.14
Time To Compile
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.81, N = 3
77.01
Linux 5.15-rc1
SE +/- 0.31, N = 3
79.25
5.15 3reverts
SE +/- 0.79, N = 3
76.98
flush-in-the-ref
SE +/- 0.83, N = 3
76.96
20
40
60
80
100

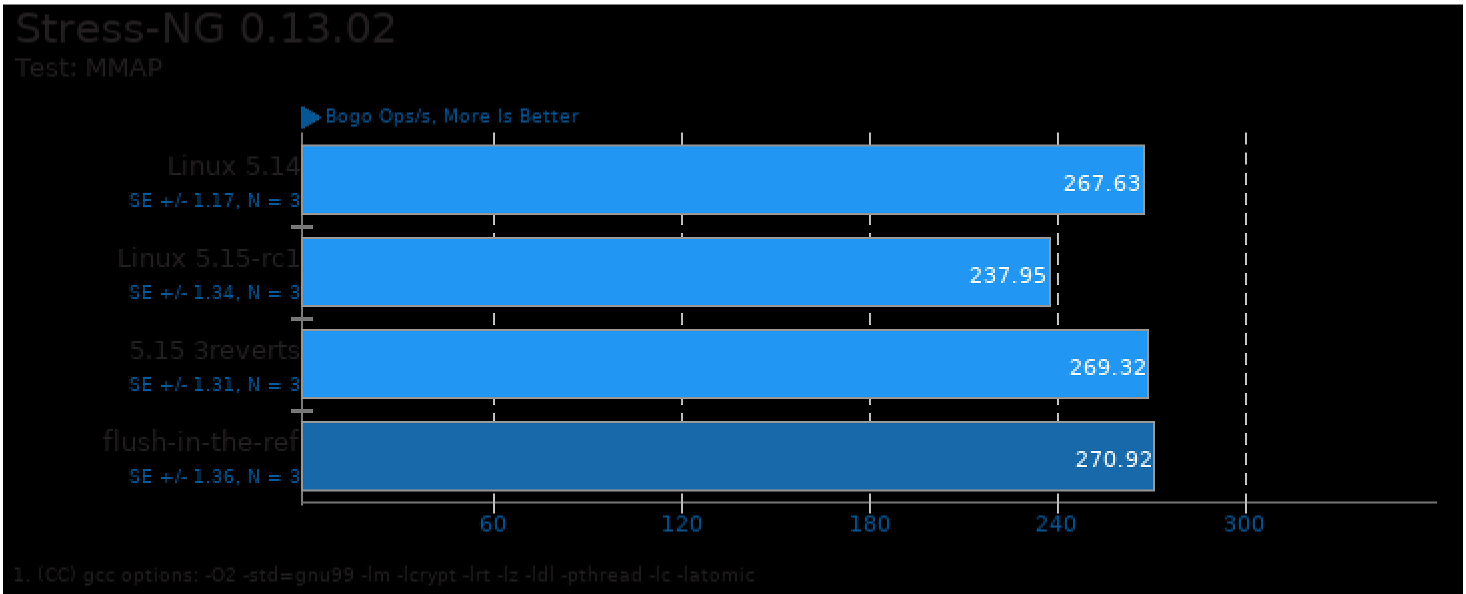

Timed LLVM Compilation 12.0
Build System: Ninja
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.13, N = 3
591.37
Linux 5.15-rc1
SE +/- 0.17, N = 3
606.75
5.15 3reverts
SE +/- 0.06, N = 3
590.28
flush-in-the-ref
SE +/- 0.10, N = 3
590.63
130
260
390
520
650

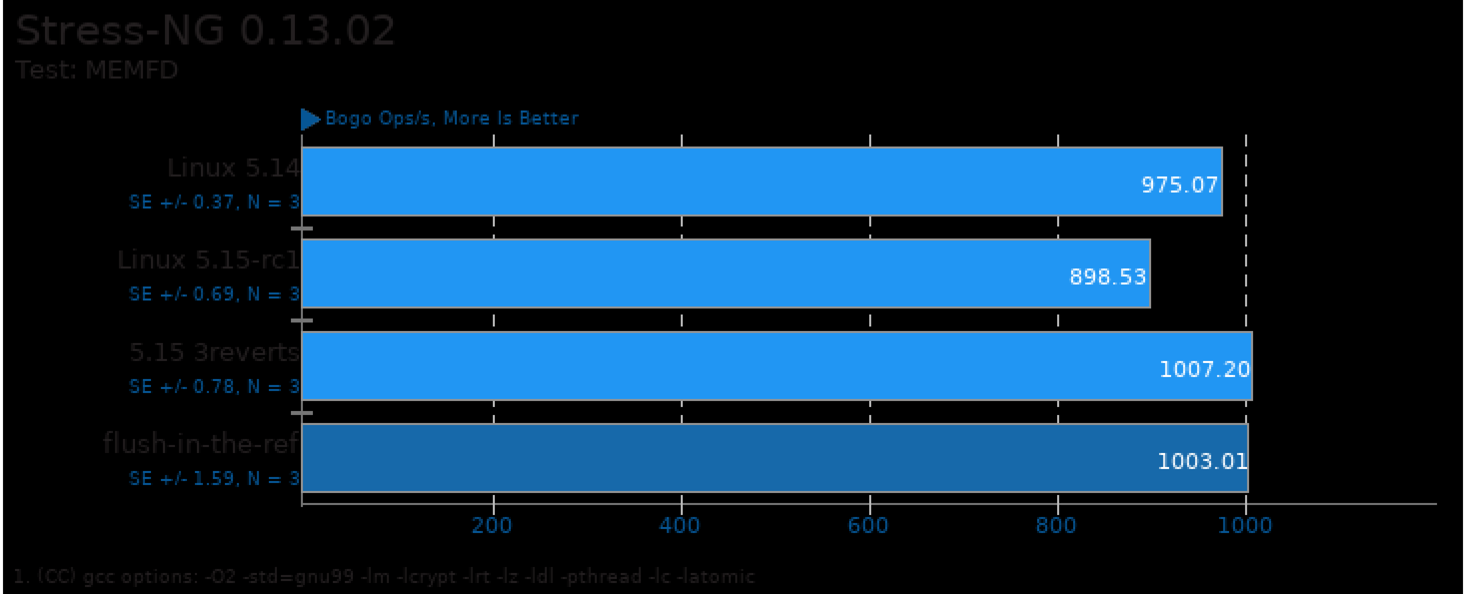

Timed LLVM Compilation 12.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
Linux 5.14
SE +/- 3.16, N = 3
607.18
Linux 5.15-rc1
SE +/- 2.52, N = 3
629.22
5.15 3reverts
SE +/- 1.08, N = 3
601.47
flush-in-the-ref
SE +/- 0.30, N = 3
601.29
140
280
420
560
700


Timed Mesa Compilation 21.0
Time To Compile
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.05, N = 3
44.78
Linux 5.15-rc1
SE +/- 0.10, N = 3
45.69
5.15 3reverts
SE +/- 0.04, N = 3
44.77
flush-in-the-ref
SE +/- 0.09, N = 3
44.74
10
20
30
40
50


Timed Node.js Compilation 15.11
Time To Compile
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.15, N = 3
392.81
Linux 5.15-rc1
SE +/- 0.10, N = 3
403.94
5.15 3reverts
SE +/- 0.19, N = 3
391.87
flush-in-the-ref
SE +/- 0.14, N = 3
392.33
90
180
270
360
450

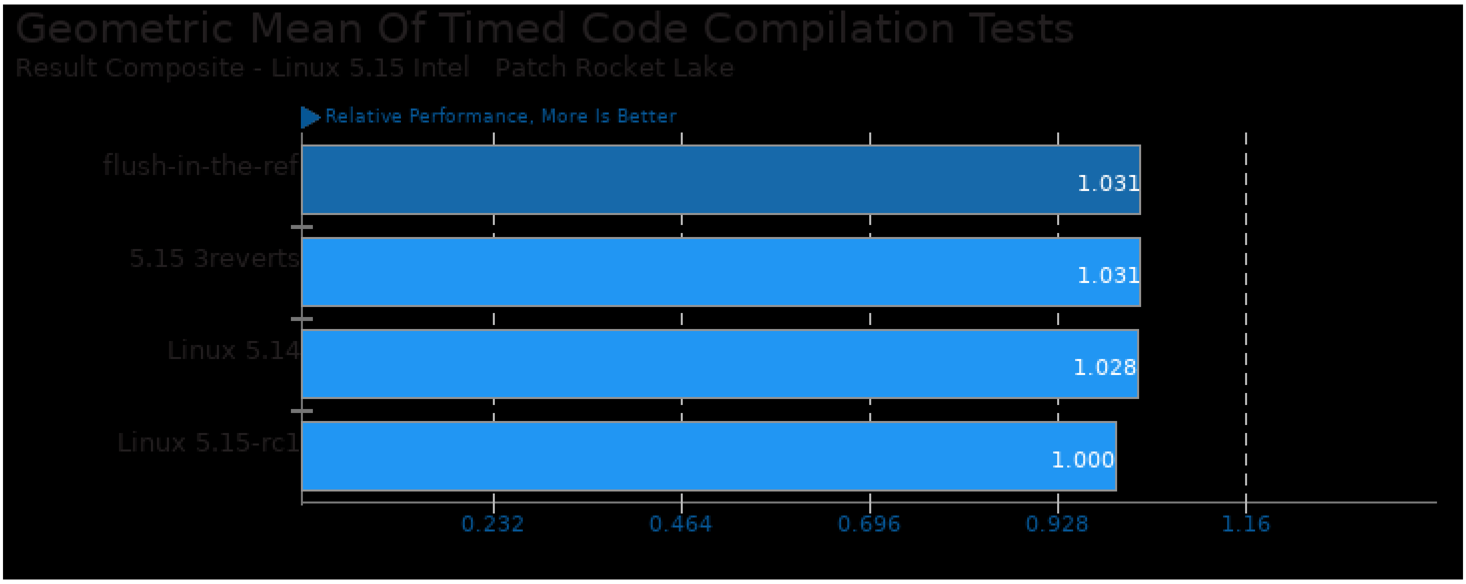

RawTherapee
Total Benchmark Time
Seconds, Fewer Is Better
Linux 5.14
SE +/- 0.04, N = 3
50.65
Linux 5.15-rc1
SE +/- 0.02, N = 3
53.50
5.15 3reverts
SE +/- 0.05, N = 3
50.66
flush-in-the-ref
SE +/- 0.05, N = 3
50.42
12
24
36
48
60
1. RawTherapee, version 5.8, command line.


Stress-NG 0.13.02
Test: MMAP
Bogo Ops/s, More Is Better
Linux 5.14
SE +/- 1.17, N = 3
267.63
Linux 5.15-rc1
SE +/- 1.34, N = 3
237.95
5.15 3reverts
SE +/- 1.31, N = 3
269.32
flush-in-the-ref
SE +/- 1.36, N = 3
270.92
60
120
180
240
300
1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -pthread -lc -latomic

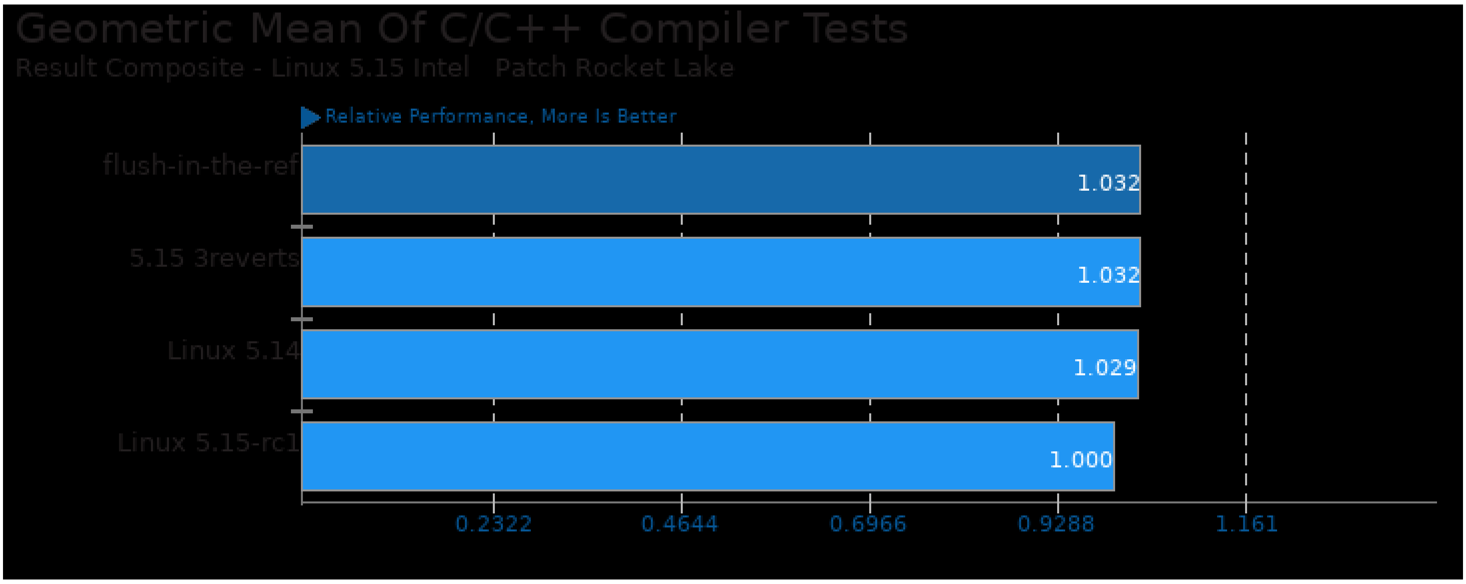

Stress-NG 0.13.02
Test: MEMFD
Bogo Ops/s, More Is Better
Linux 5.14
SE +/- 0.37, N = 3
975.07
Linux 5.15-rc1
SE +/- 0.69, N = 3
898.53
5.15 3reverts
SE +/- 0.78, N = 3
1007.20
flush-in-the-ref
SE +/- 1.59, N = 3
1003.01
200
400
600
800
1000
1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -pthread -lc -latomic


Geometric Mean Of All Test Results
Result Composite - Linux 5.15 Intel   Patch Rocket Lake
Geometric Mean, More Is Better
Linux 5.14
6.679
Linux 5.15-rc1
6.421
5.15 3reverts
6.699
flush-in-the-ref
6.713
2
4
6
8
10

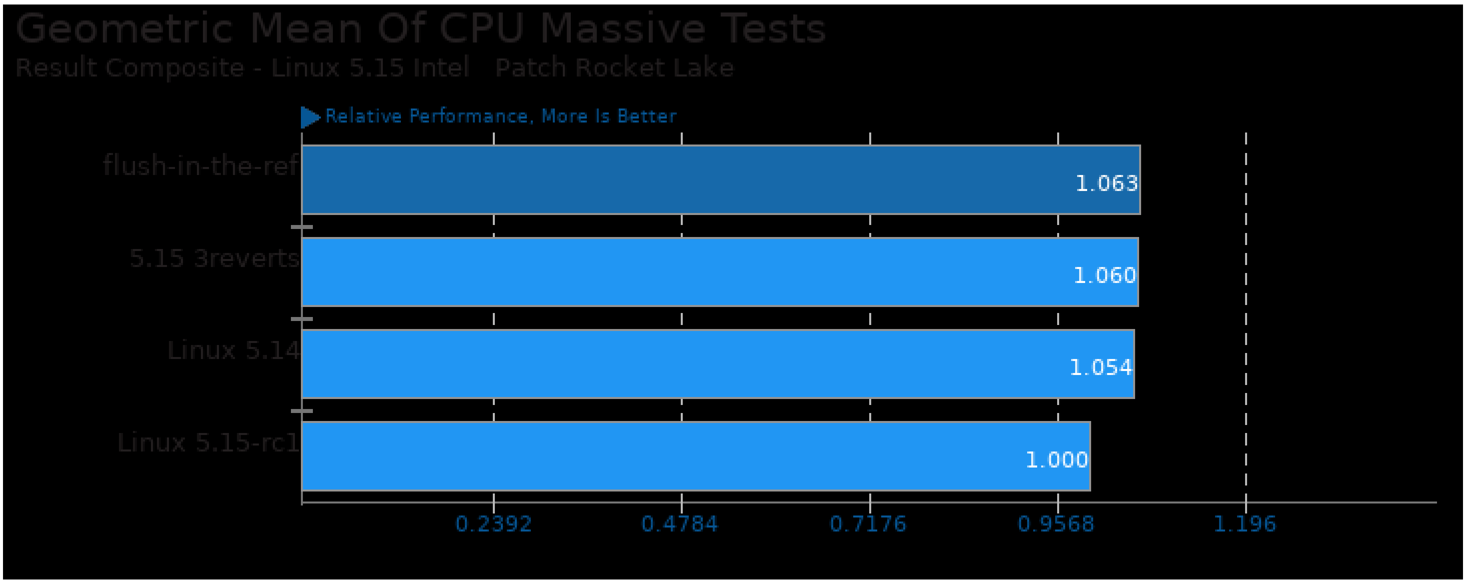
These geometric means are based upon test groupings / test suites for this result file.



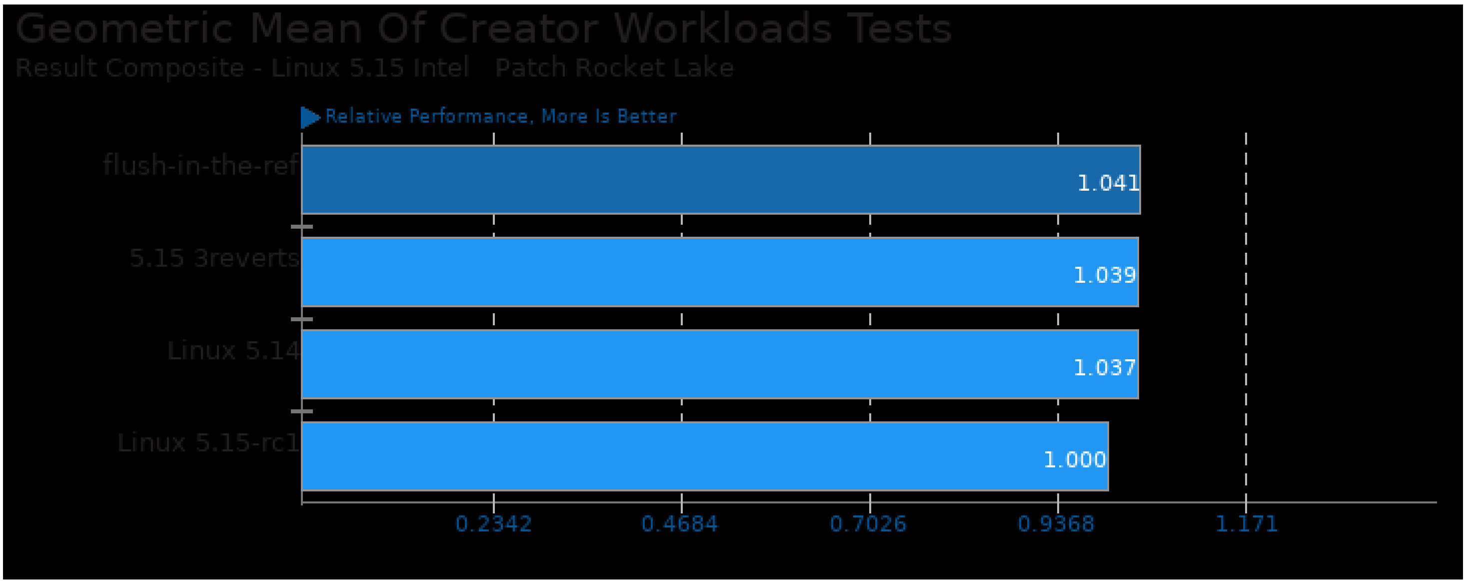
Geometric mean based upon tests: pts/build-linux-kernel, pts/build-llvm, pts/build-ffmpeg, pts/build-godot, pts/build-nodejs and pts/build-mesa



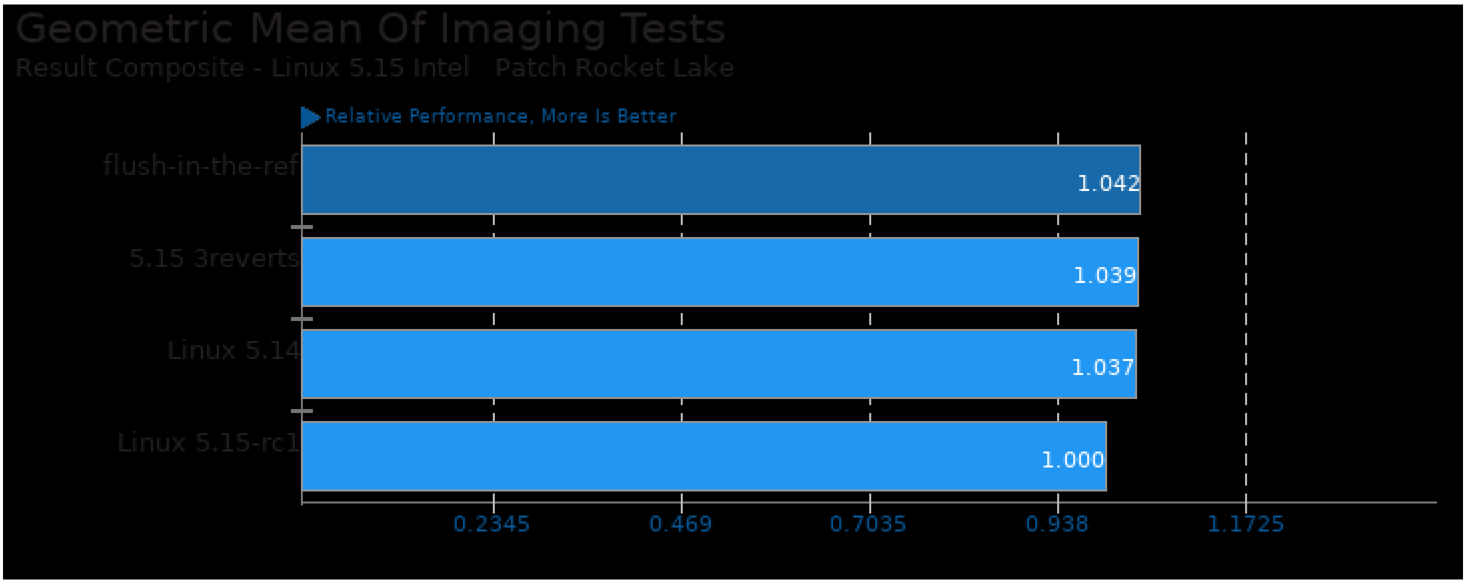
Geometric mean based upon tests: pts/build-llvm and pts/build-ffmpeg



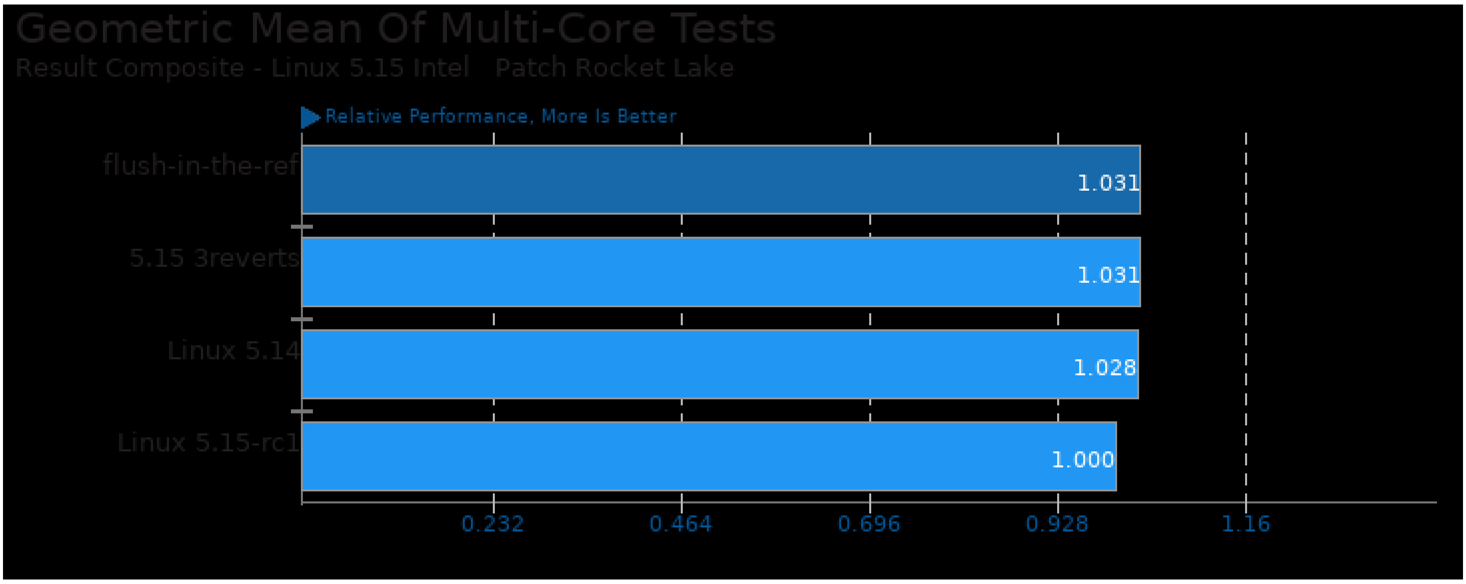
Geometric mean based upon tests: pts/build-llvm, pts/build-linux-kernel, pts/dacapobench and pts/stress-ng



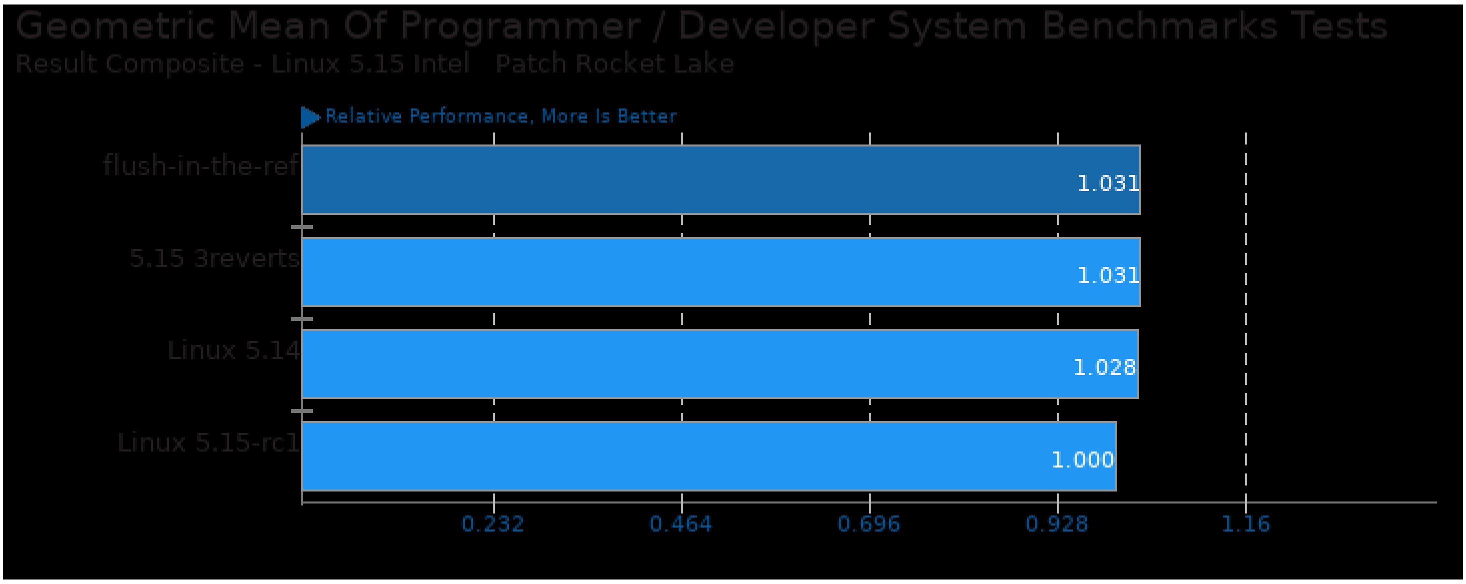
Geometric mean based upon tests: pts/jpegxl, pts/jpegxl-decode, system/rawtherapee and pts/build-godot



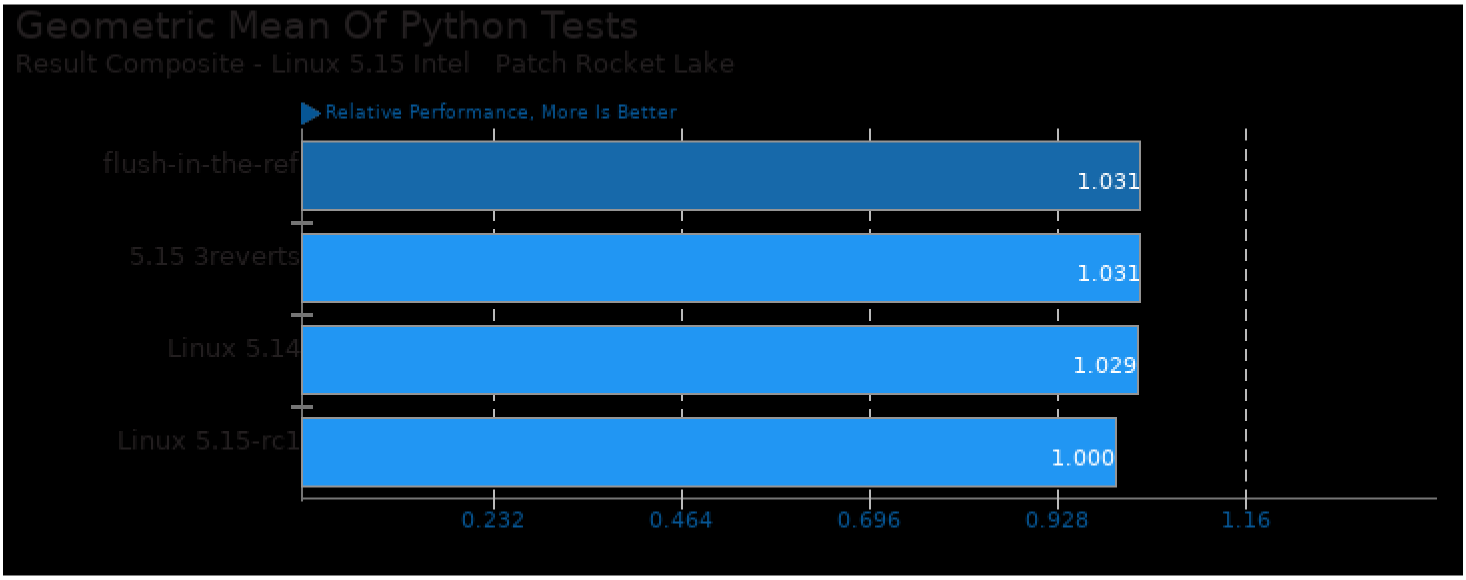
Geometric mean based upon tests: pts/jpegxl, pts/jpegxl-decode and system/rawtherapee



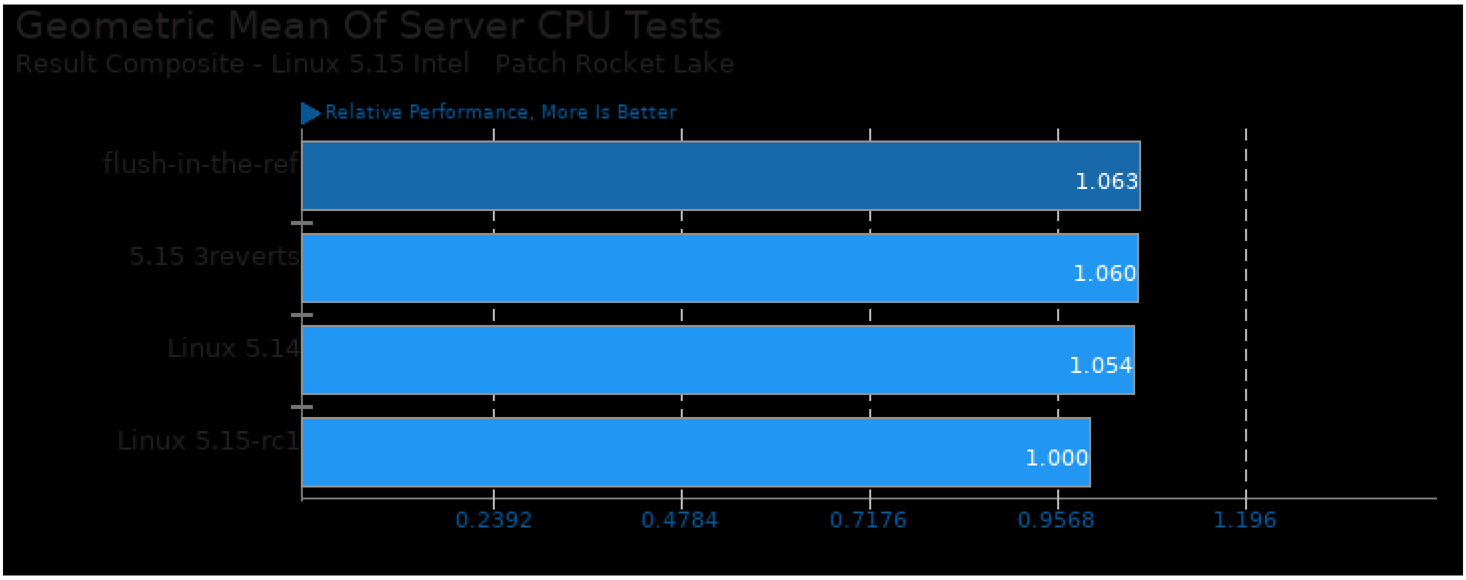
Geometric mean based upon tests: pts/build-linux-kernel, pts/build-llvm, pts/build-ffmpeg, pts/build-godot, pts/build-nodejs and pts/build-mesa



Geometric mean based upon tests: pts/build-linux-kernel, pts/build-llvm, pts/build-ffmpeg, pts/build-godot, pts/build-nodejs and pts/build-mesa



Geometric mean based upon tests: pts/build-godot, pts/build-llvm, pts/build-mesa and pts/build-nodejs



Geometric mean based upon tests: pts/dacapobench, pts/build-linux-kernel, pts/build-llvm and pts/stress-ng

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 11:53.