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jpegxl kabylake

Intel Core i7-8550U testing with a Dell 0H0VG3 (1.10.0 BIOS) and Intel UHD 620 KBL GT2 3GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.001x the speed of the slowest (3). 2 was 0.999x the speed of 1 and 3 was 1x the speed of 2.

Test Systems:

1

2

3

Processor: Intel Core i7-8550U @ 4.00GHz (4 Cores / 8 Threads), Motherboard: Dell 0H0VG3 (1.10.0 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 8GB, Disk: PM961 NVMe SAMSUNG 256GB, Graphics: Intel UHD 620 KBL GT2 3GB (1150MHz), Audio: Realtek ALC3271, Network: Qualcomm Atheros QCA6174 802.11ac

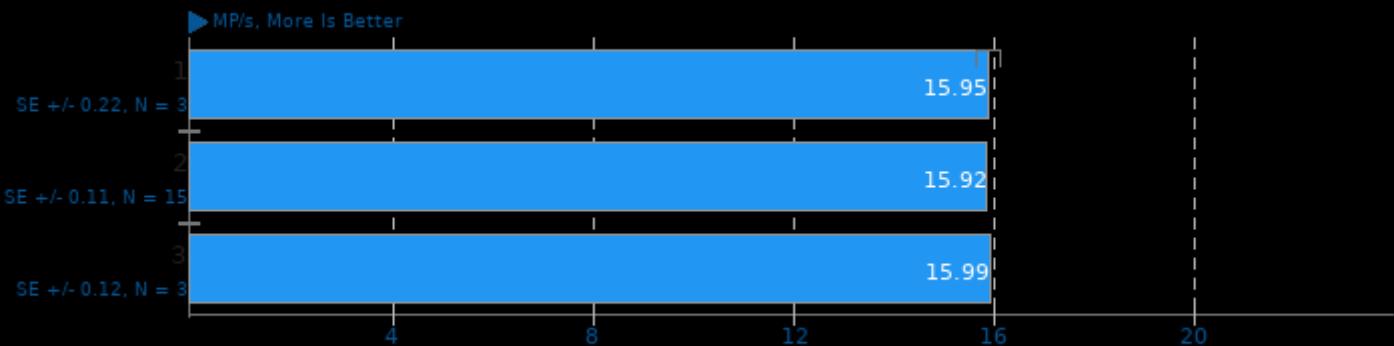
OS: Ubuntu 20.10, Kernel: 5.8.0-63-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6, OpenCL: OpenCL 2.1, Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
 Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-poYruo/gcc-10-10.3.0/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
 Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0fea - ThermalD 2.3
 Security Notes: iib_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbd: Mitigation of Microcode + tsx_async_abort: Not affected

	1	2	3
JPEG XL libjxl - PNG - 5 (MP/s)	15.95	15.92	15.99
Normalized	99.75%	99.56%	100%
Standard Deviation	2.4%	2.8%	1.3%
JPEG XL libjxl - PNG - 7 (MP/s)	4.99	4.99	4.99
Standard Deviation	0.2%	0.3%	0.1%
JPEG XL libjxl - PNG - 8 (MP/s)	0.59	0.59	0.59
Standard Deviation	0%	0%	0%
JPEG XL libjxl - JPEG - 5 (MP/s)	54.76	54.83	54.89
Normalized	99.76%	99.89%	100%
Standard Deviation	0.5%	0.4%	0.3%
JPEG XL libjxl - JPEG - 7 (MP/s)	54.66	54.63	54.70
Normalized	99.93%	99.87%	100%
Standard Deviation	0.3%	0.2%	0.2%
JPEG XL libjxl - JPEG - 8 (MP/s)	21.90	21.89	21.83
Normalized	100%	99.95%	99.68%
Standard Deviation	0.2%	0.4%	0.3%
JPEG XL Decoding libjxl - 1 (MP/s)	43.61	43.41	43.38
Normalized	100%	99.54%	99.47%
Standard Deviation	1%	1.3%	0.3%
JPEG XL Decoding libjxl - All (MP/s)	113.74	113.90	113.51
Normalized	99.86%	100%	99.66%
Standard Deviation	2.6%	2.6%	2.1%

JPEG XL libjxl 0.5

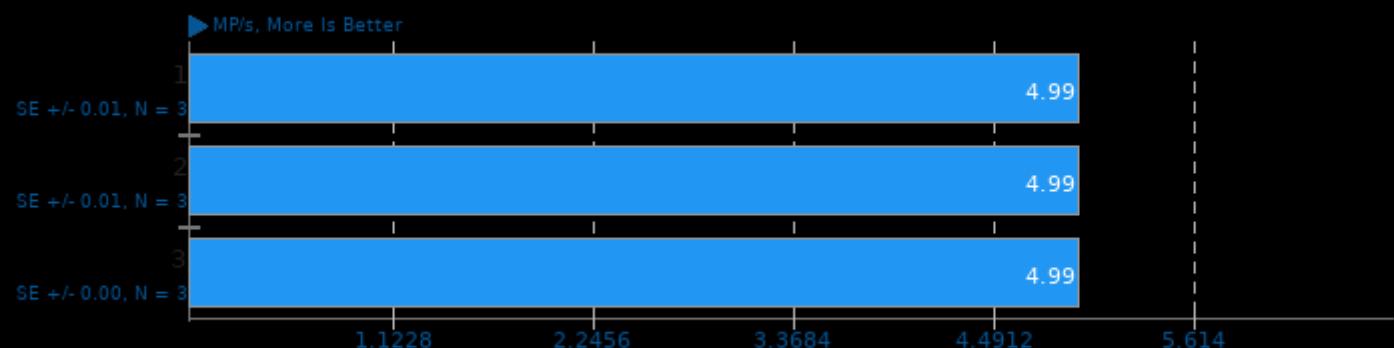
Input: PNG - Encode Speed: 5



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

JPEG XL libjxl 0.5

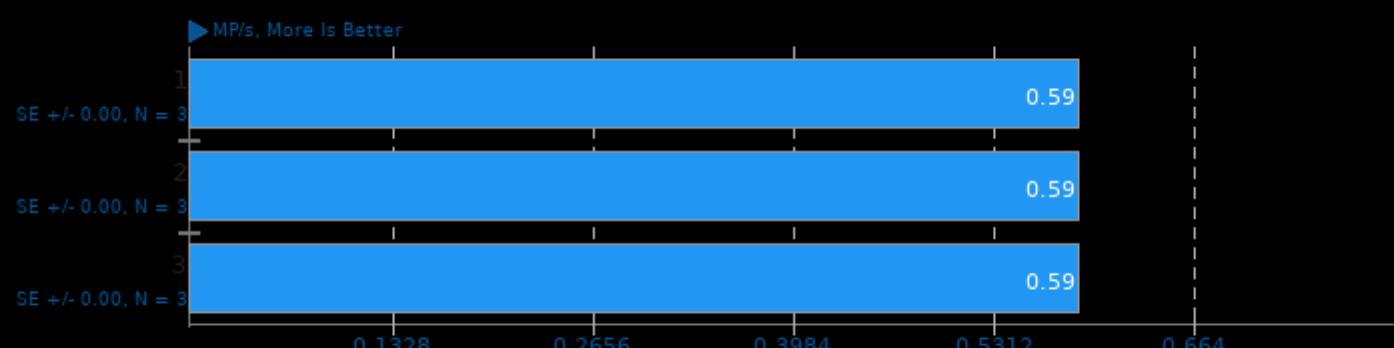
Input: PNG - Encode Speed: 7



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

JPEG XL libjxl 0.5

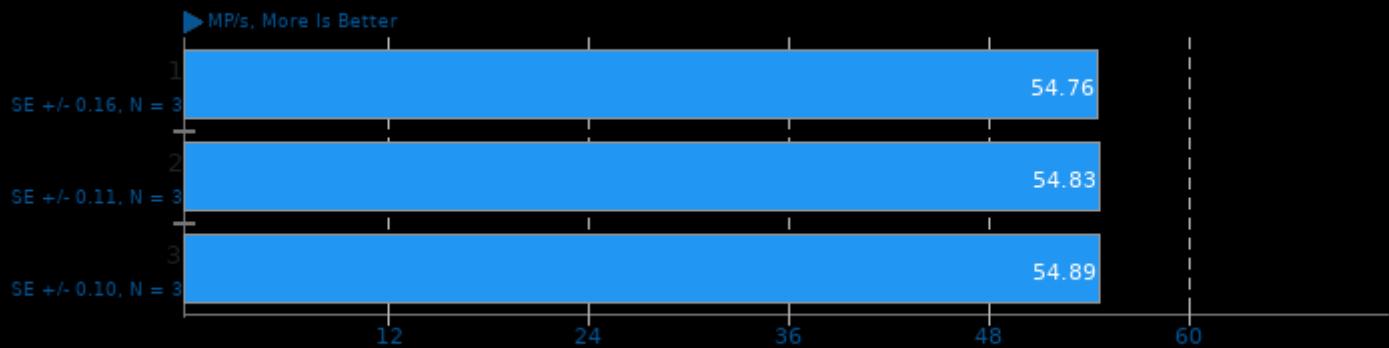
Input: PNG - Encode Speed: 8



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

JPEG XL libjxl 0.5

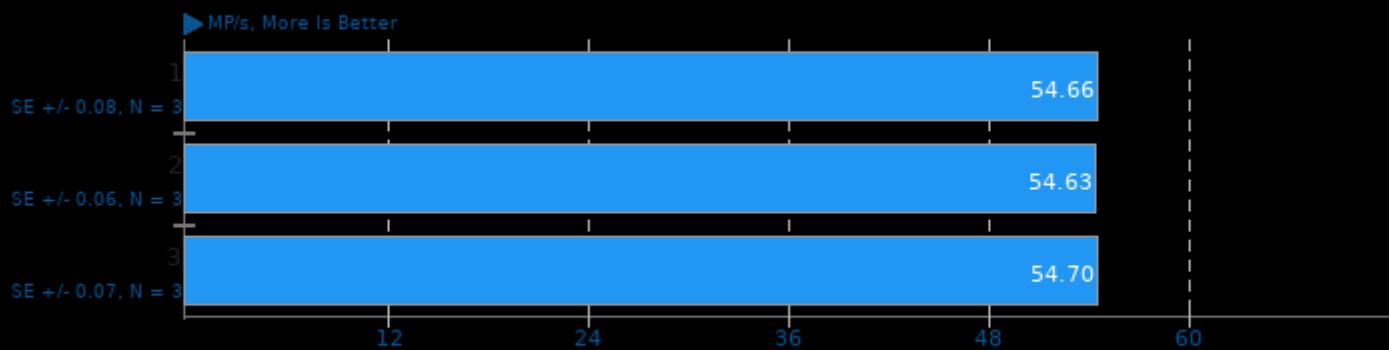
Input: JPEG - Encode Speed: 5



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

JPEG XL libjxl 0.5

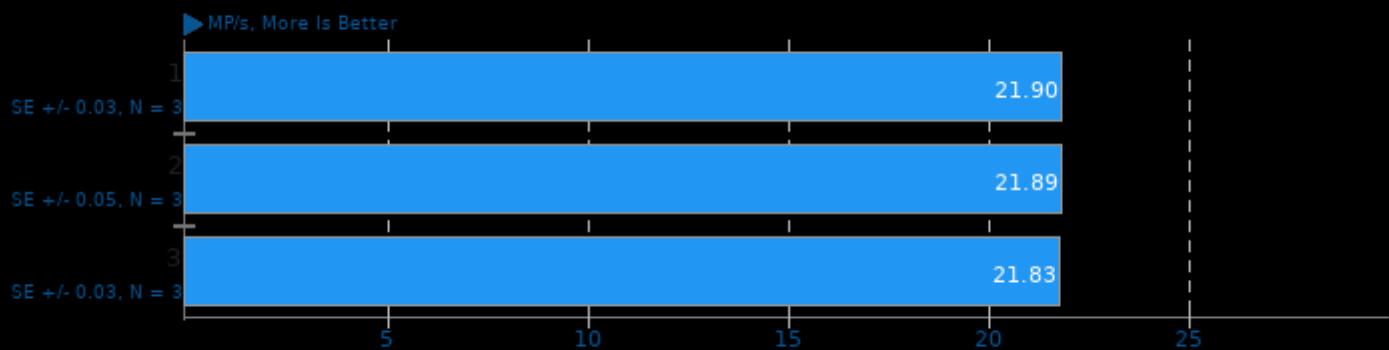
Input: JPEG - Encode Speed: 7



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

JPEG XL libjxl 0.5

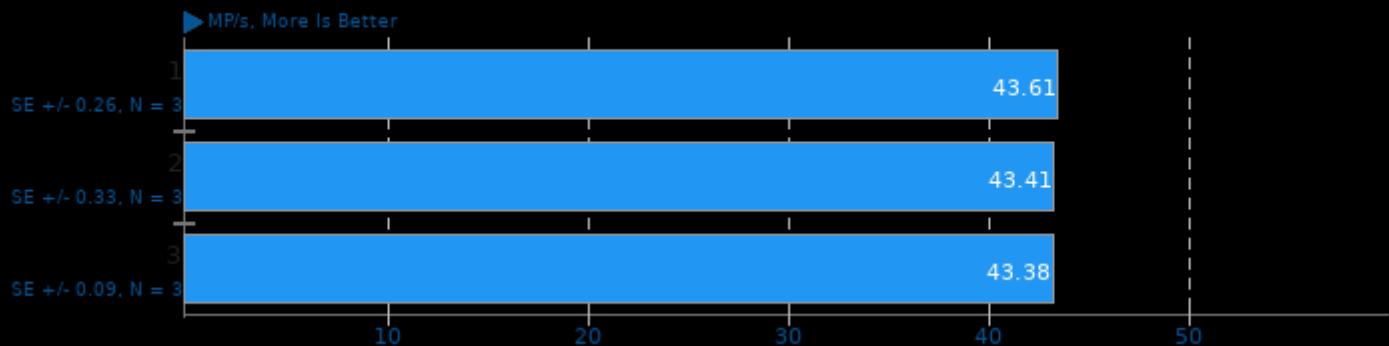
Input: JPEG - Encode Speed: 8



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie

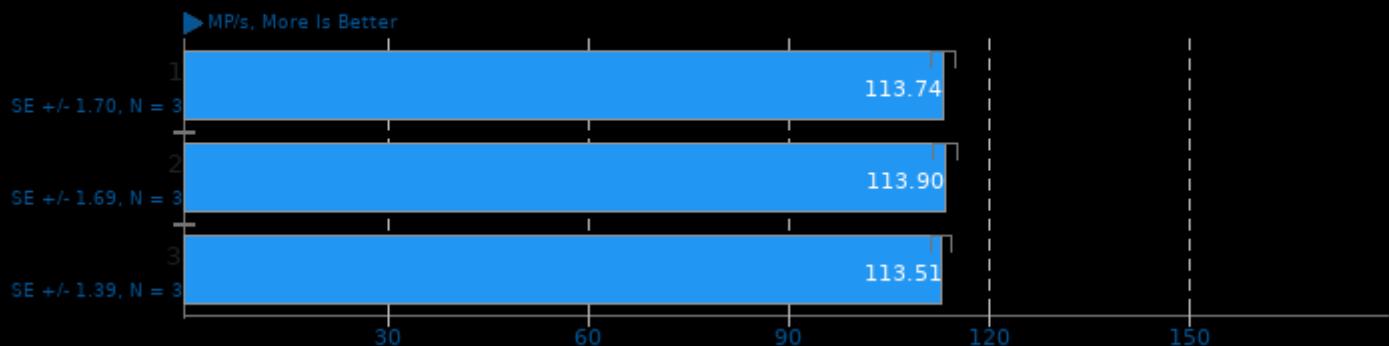
JPEG XL Decoding libjxl 0.5

CPU Threads: 1

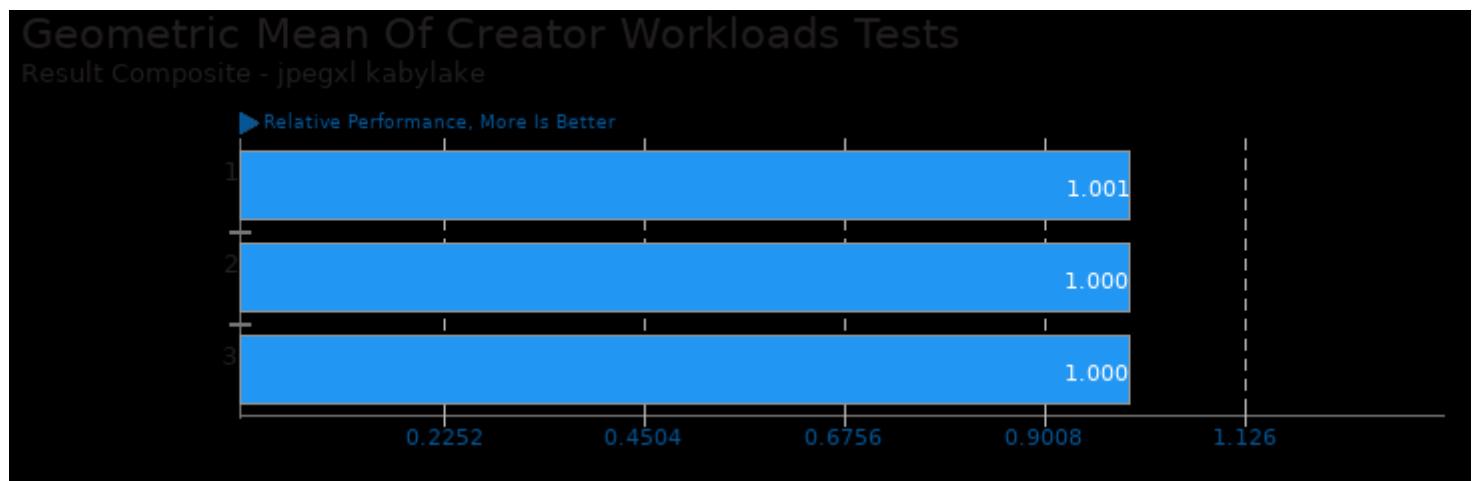


JPEG XL Decoding libjxl 0.5

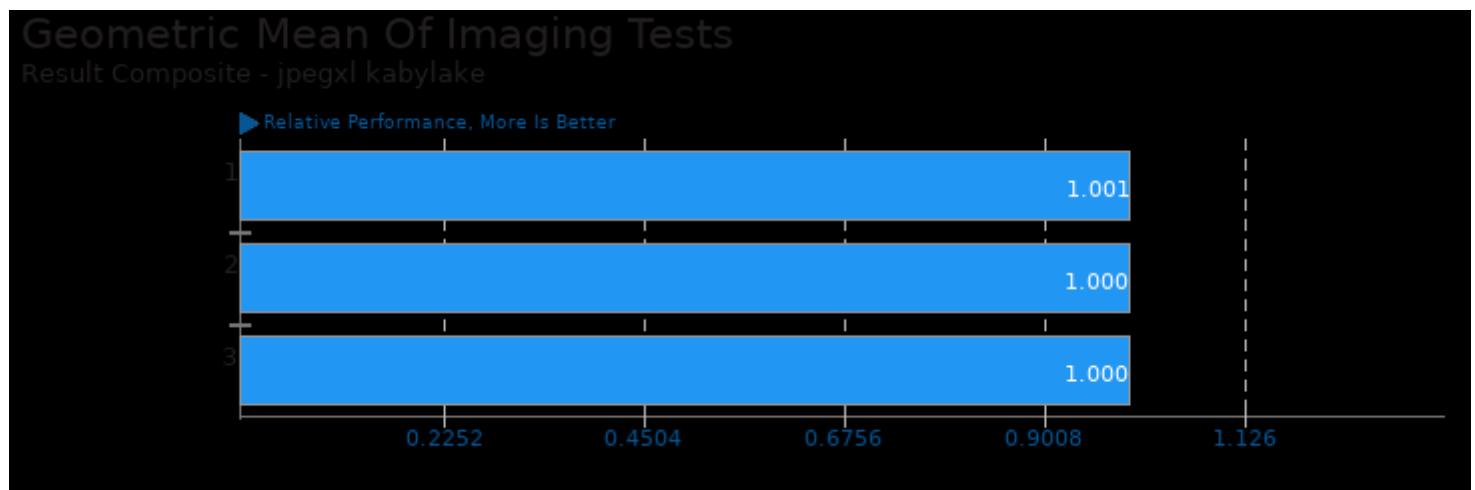
CPU Threads: All



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



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:35.