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7700K Intel JPEG XL

Intel Core i7-7700K testing with a MSI Z270-A PRO (MS-7A71) v1.0 (1.60 BIOS) and MSI Intel HD 630 on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.002x the speed of the slowest (2). 1 was 0.999x the speed of 3 and 2 was 0.999x the speed of 1.

Test Systems:

1

2

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3

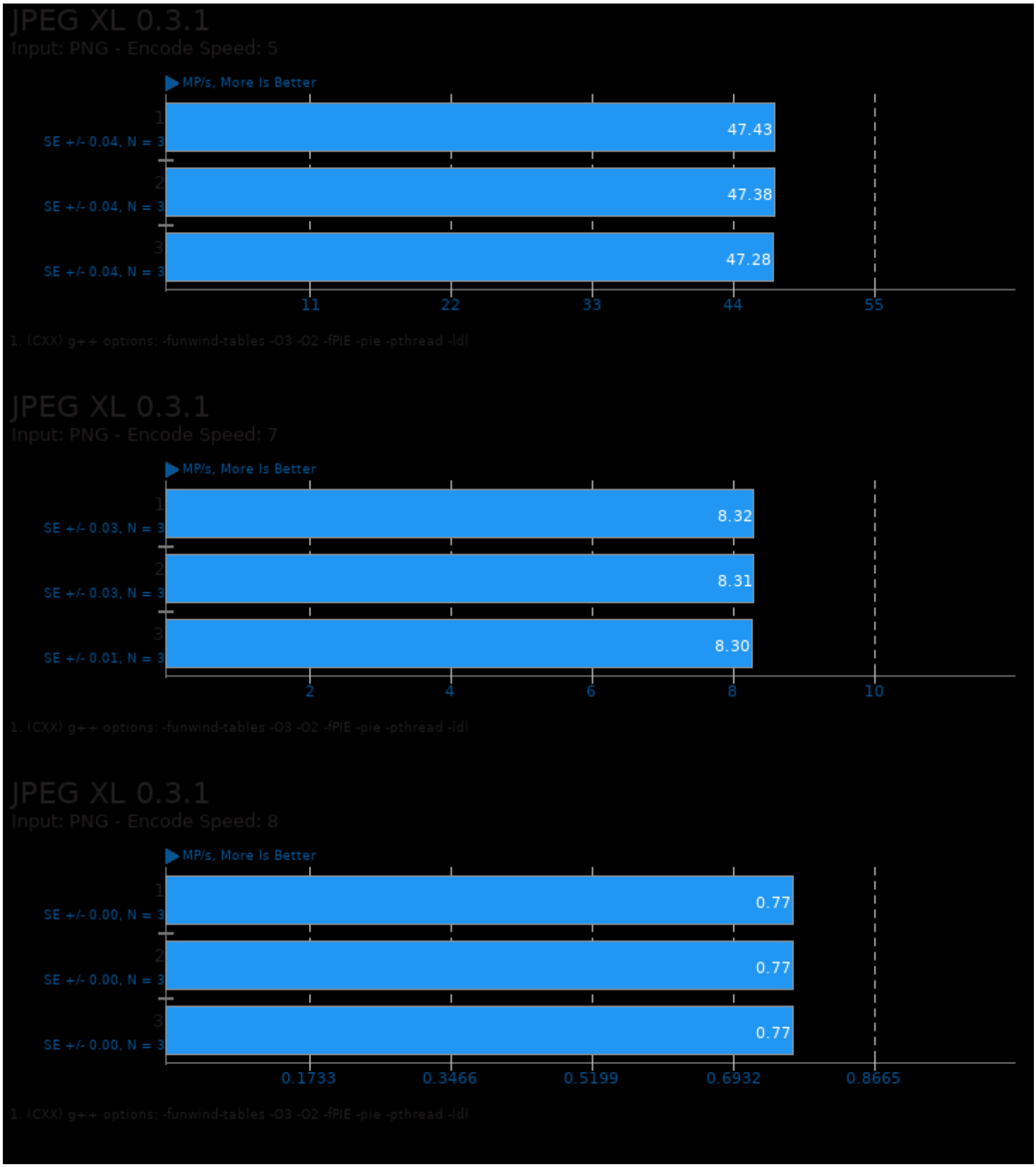
Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0 (1.60 BIOS), Chipset: Intel Xeon E3-1200 v6/7th + Z270, Memory: 16GB, Disk: 256GB Samsung SSD 850, Graphics: MSI Intel HD 630 (1150MHz), Audio: Realtek ALC892, Monitor: LG Ultra HD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc8daily20201011-generic (x86_64) 20201010, Display Server: X Server 1.20.8, OpenCL: OpenCL 2.1, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

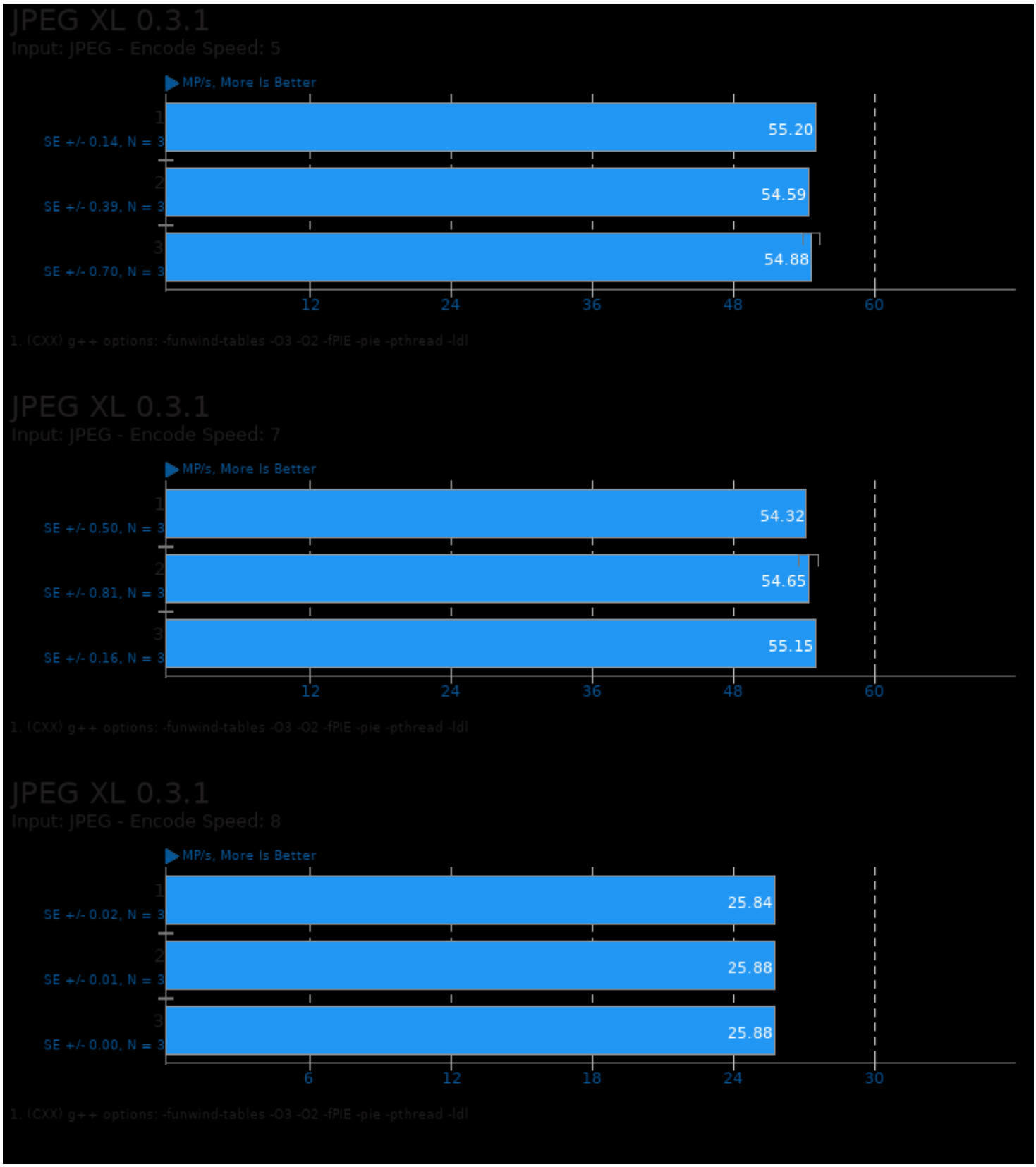
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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 - CPU Microcode: 0xde - Thermald 1.9.1
Security Notes: itlb_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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

	1	2	3
JPEG XL - PNG - 5 (MP/s)	**47.43**	47.38	**47.28**
Normalized	100%	99.89%	99.68%
Standard Deviation	0.1%	0.2%	0.2%
JPEG XL - PNG - 7 (MP/s)	**8.32**	8.31	**8.30**
Normalized	100%	99.88%	99.76%
Standard Deviation	0.5%	0.6%	0.1%
JPEG XL - PNG - 8 (MP/s)	0.77	0.77	0.77
Standard Deviation	0%	0%	0%
JPEG XL - JPEG - 5 (MP/s)	**55.20**	**54.59**	54.88
Normalized	100%	98.89%	99.42%
Standard Deviation	0.5%	1.2%	2.2%
JPEG XL - JPEG - 7 (MP/s)	**54.32**	54.65	**55.15**
Normalized	98.5%	99.09%	100%
Standard Deviation	1.6%	2.6%	0.5%
JPEG XL - JPEG - 8 (MP/s)	**25.84**	**25.88**	**25.88**
Normalized	99.85%	100%	100%
Standard Deviation	0.1%	0.1%	0%

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