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LAPTOP

Intel Core i5-3320M testing with a LENOVO 2392AQU (G4ETB5WW 2.75 BIOS) and Intel HD 4000 2GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Intel HD - Intel Core i5 450M

Processor: Intel Core i5 450M @ 2.40GHz (2 Cores / 4 Threads), Motherboard: Dell 023HKR (A16 BIOS), Chipset: Intel Core DRAM, Memory: 4096MB, Disk: 500GB TOSHIBA MK5061GS, Graphics: Intel HD 2GB, Audio: IDT 92HD81B1X5, Network: Broadcom NetXtreme BCM5761e PCIe + Intel Centrino Advanced-N 6200

OS: Ubuntu 20.04, Kernel: 5.4.0-107-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.13, OpenGL: 2.1 Mesa 21.2.6, Vulkan: 1.1.182, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1366x768

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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x7
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; 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 Retpolines IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

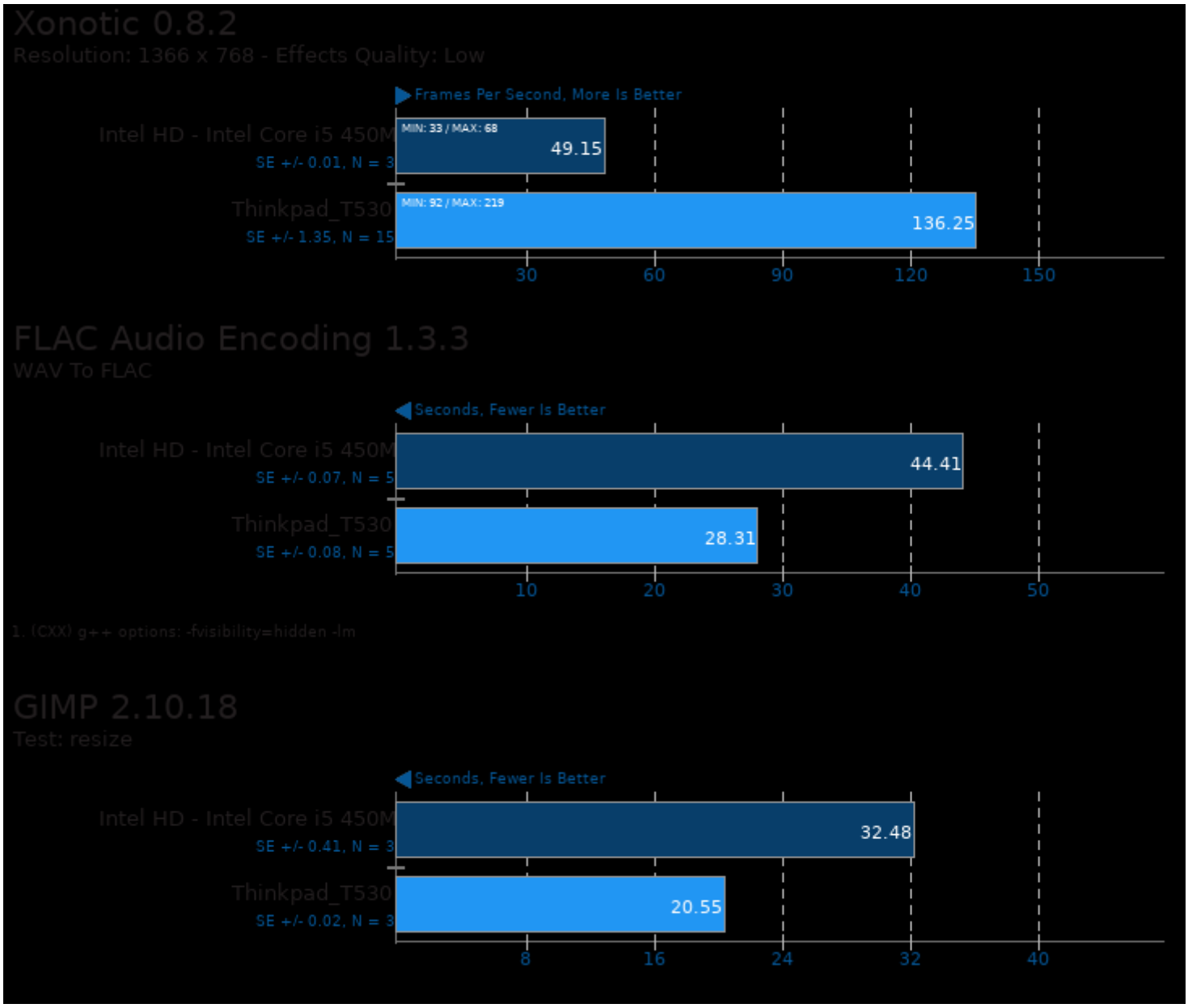
Thinkpad_T530

Processor: Intel Core i5-3320M @ 3.30GHz (2 Cores / 4 Threads), Motherboard: LENOVO 2392AQU (G4ETB5WW 2.75 BIOS), Chipset: Intel 3rd Gen Core DRAM, Memory: 8GB, Disk: 500GB Western Digital WD5000LPLX-0, Graphics: Intel HD 4000 2GB, Audio: Realtek ALC269VC, Network: Intel 82579LM + Intel Centrino Advanced-N 6205

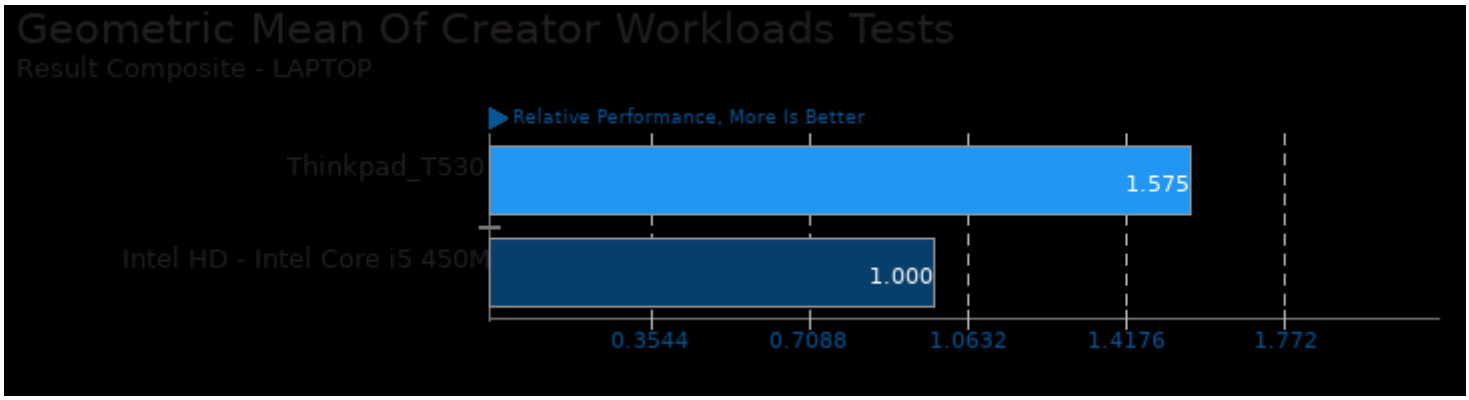
OS: Ubuntu 20.04, Kernel: 5.4.0-137-generic (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.13, OpenGL: 4.2 Mesa 21.2.6, Vulkan: 1.2.182, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1600x900

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 - CPU Microcode: 0x21
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + mmio_stale_data: Unknown: No mitigations + retbleed: 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 Retpolines IBPB: conditional IBRS_FW STIBP: conditional RSB filling PBRSB-eIBRS: Not affected + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

	Intel HD - Intel Core i5 450M	Thinkpad_T530
Xonotic - 1366 x 768 - Low (FPS)	**49.1495478**	**136.2456327**
Normalized	36.07%	100%
Standard Deviation	0%	3.8%
FLAC Audio Encoding - WAV To FLAC (sec)	**44.411**	**28.309**
Normalized	63.74%	100%
Standard Deviation	0.4%	0.6%
GIMP - resize (sec)	**32.483**	**20.550**
Normalized	63.26%	100%
Standard Deviation	2.2%	0.2%


Xonotic 0.8.2
Resolution: 1366 x 768 - Effects Quality: Low
Frames Per Second, More Is Better
Intel HD - Intel Core i5 450M
SE +/- 0.01, N = 3
MIN: 33 / MAX: 68
49.15
Thinkpad_T530
SE +/- 1.35, N = 15
MIN: 92 / MAX: 219
136.25
30
60
90
120
150
FLAC Audio Encoding 1.3.3
WAV To FLAC
Seconds, Fewer Is Better
Intel HD - Intel Core i5 450M
SE +/- 0.07, N = 5
44.41
Thinkpad_T530
SE +/- 0.08, N = 5
28.31
10
20
30
40
50
1. (CXX) g++ options: -fvisibility=hidden -lm
GIMP 2.10.18
Test: resize
Seconds, Fewer Is Better
Intel HD - Intel Core i5 450M
SE +/- 0.41, N = 3
32.48
Thinkpad_T530
SE +/- 0.02, N = 3
20.55
8
16
24
32
40

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



Geometric mean based upon tests: pts/encode-flac and system/gimp

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:58.