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modesettingDriver

Intel Core i7-1165G7 testing with a LENOVO 20W0S02V00 (N34ET34W 1.34 BIOS) and Intel Xe TGL GT2 15GB on Arch rolling via the Phoronix Test Suite.

Automated Executive Summary

xf86-video-intel had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (modesetting 1,2,3,4,7,8) was 1x the speed of the slowest (modesetting 1,2,3,4,7,8).

Test Systems:

modesetting 1,2,3,4,7,8

xf86-video-intel

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: LENOVO 20W0S02V00 (N34ET34W

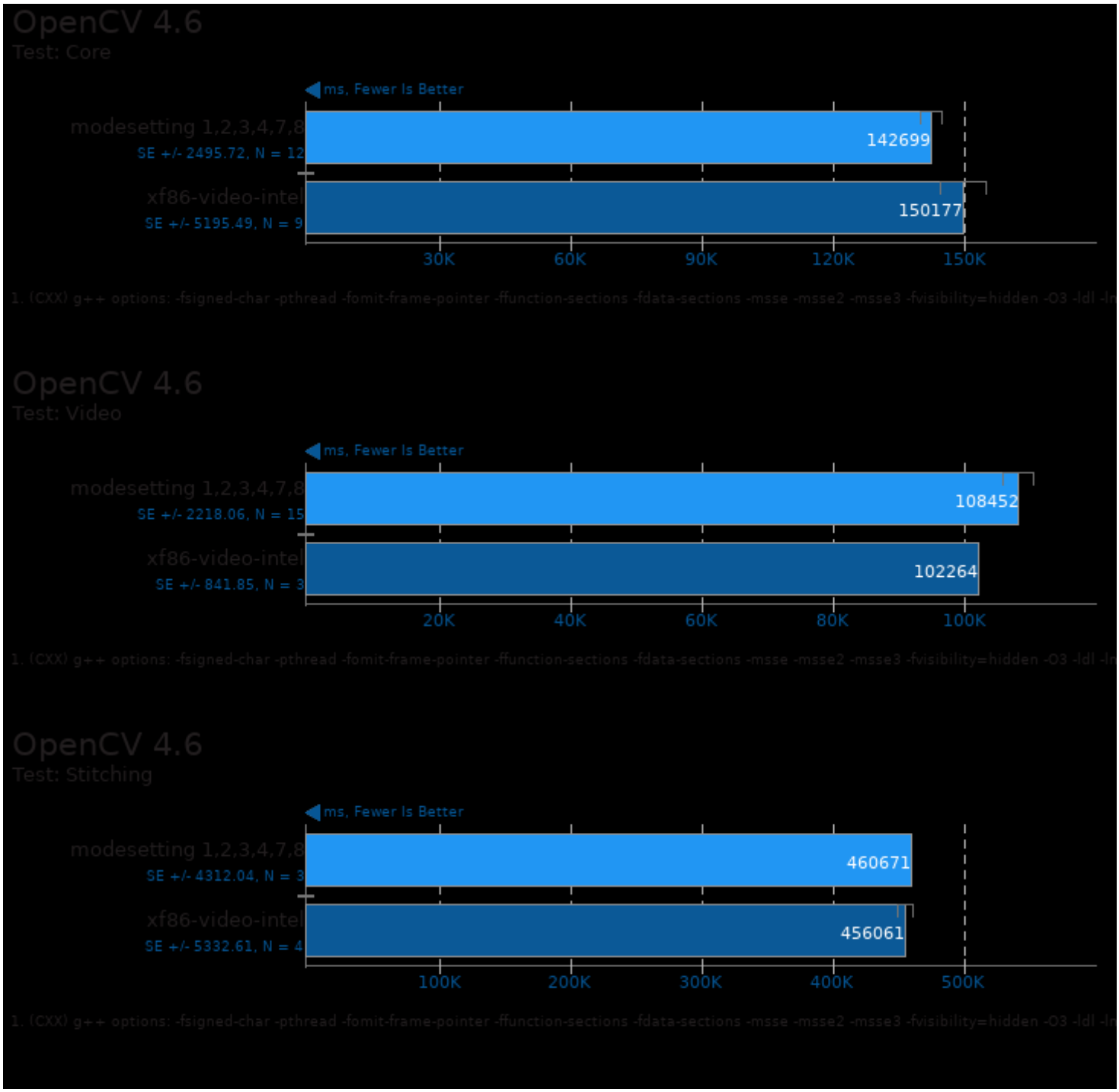
modesettingDriver

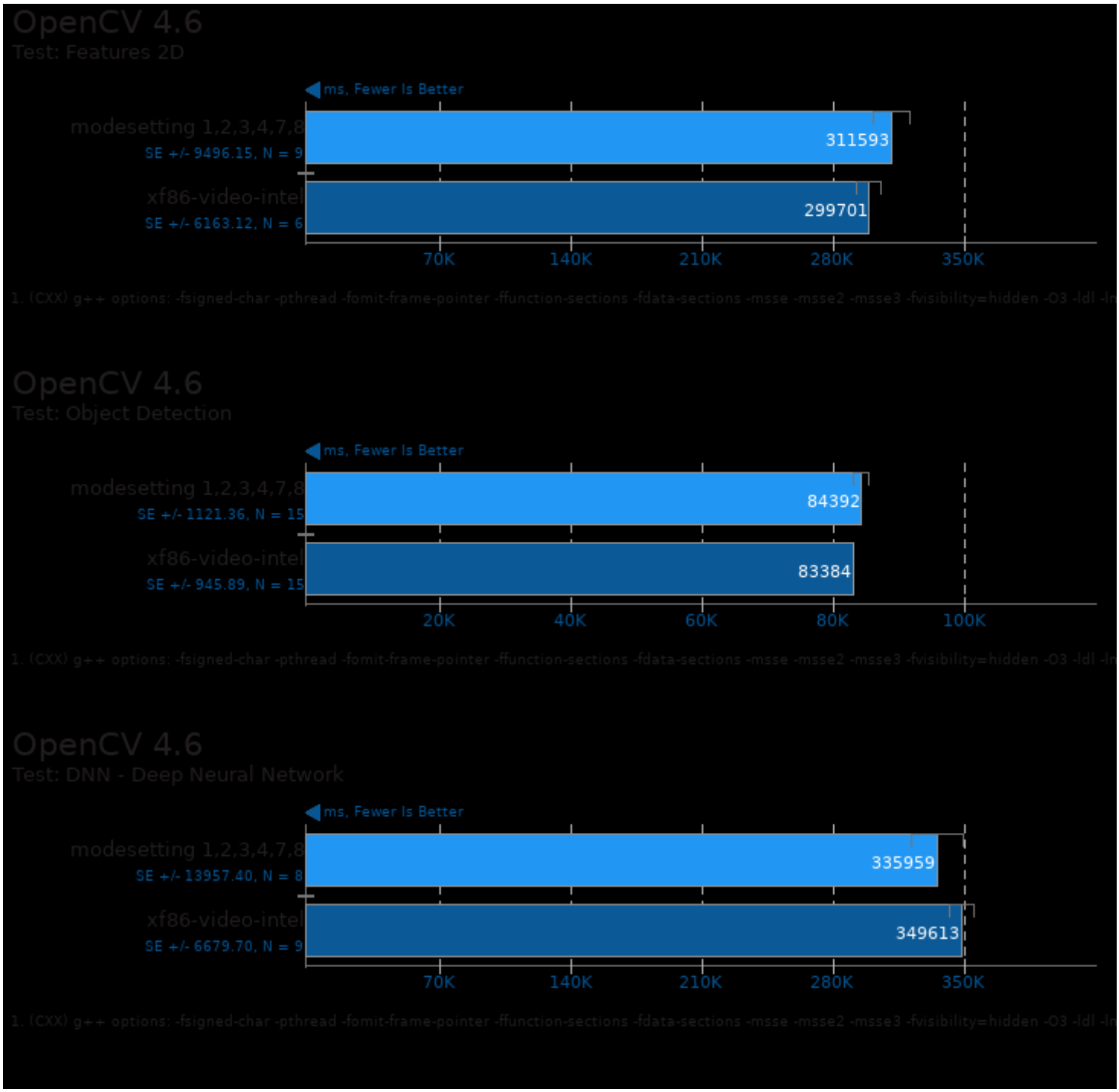
1.34 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: Intel Xe TGL GT2 15GB (1300MHz), Audio: Realtek ALC257, Network: Intel + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Arch rolling, Kernel: 5.19.1-arch2-1 (x86_64), Display Server: X Server 1.21.1.4, OpenGL: 4.6 Mesa 22.1.6, OpenCL: OpenCL 3.0 + OpenCL 1.1 Mesa 22.1.6, Vulkan: 1.3.211, Compiler: GCC 12.1.1 20220730 + Clang 14.0.6 + LLVM 14.0.6, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: i915.enable_psr=0 - Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-libstdcxx-backtrace --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=gnu
Processor Notes: Scaling Governor: intel_cpufreq schedutil - Platform Profile: balanced - CPU Microcode: 0xa4 - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSB-eIBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

	modesetting 1,2,3,4,7,8	xf86-video-intel
OpenCV - Core (ms)	**142699**	**150177**
Normalized	100%	95.02%
Standard Deviation	6.1%	10.4%
OpenCV - Video (ms)	**108452**	**102264**
Normalized	94.29%	100%
Standard Deviation	7.9%	1.4%
OpenCV - Stitching (ms)	**460671**	**456061**
Normalized	99%	100%
Standard Deviation	1.6%	2.3%
OpenCV - Features 2D (ms)	**311593**	**299701**
Normalized	96.18%	100%
Standard Deviation	9.1%	5%
OpenCV - Object Detection (ms)	**84392**	**83384**
Normalized	98.81%	100%
Standard Deviation	5.1%	4.4%
OpenCV - DNN - D.N.N (ms)	**335959**	**349613**
Normalized	100%	96.09%
Standard Deviation	11.8%	5.7%


OpenCV 4.6
Test: Core
ms, Fewer Is Better
modesetting 1,2,3,4,7,8
SE +/- 2495.72, N = 12
142699
xf86-video-intel
SE +/- 5195.49, N = 9
150177
30K
60K
90K
120K
150K
1. (CXX) g++ options: -fsigned-char -pthread -fomit-frame-pointer -ffunction-sections -fdata-sections -msse -msse2 -msse3 -fvisibility=hidden -O3 -ldl
OpenCV 4.6
Test: Video
ms, Fewer Is Better
modesetting 1,2,3,4,7,8
SE +/- 2218.06, N = 15
108452
xf86-video-intel
SE +/- 841.85, N = 3
102264
20K
40K
60K
80K
100K
1. (CXX) g++ options: -fsigned-char -pthread -fomit-frame-pointer -ffunction-sections -fdata-sections -msse -msse2 -msse3 -fvisibility=hidden -O3 -ldl
OpenCV 4.6
Test: Stitching
ms, Fewer Is Better
modesetting 1,2,3,4,7,8
SE +/- 4312.04, N = 3
460671
xf86-video-intel
SE +/- 5332.61, N = 4
456061
100K
200K
300K
400K
500K
1. (CXX) g++ options: -fsigned-char -pthread -fomit-frame-pointer -ffunction-sections -fdata-sections -msse -msse2 -msse3 -fvisibility=hidden -O3 -ldl



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:45.