



www.phoronix-test-suite.com

whiskey-yquake-dav1d

Intel Core i7-8565U testing with a Dell 0KTW76 (1.11.0 BIOS) and Intel UHD 620 WHL GT2 3GB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

3 had the most wins, coming in first place for 62% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.02x the speed of the slowest (2). 1 was 0.996x the speed of 3 and 2 was 0.984x the speed of 1.

Test Systems:

1

2

3

Processor: Intel Core i7-8565U @ 4.60GHz (4 Cores / 8 Threads), Motherboard: Dell 0KTW76 (1.11.0 BIOS), Chipset: Intel Cannon Point-LP, Memory: 16GB, Disk: SK hynix PC401 NVMe 256GB, Graphics: Intel UHD 620 WHL GT2 3GB (1150MHz), Audio: Realtek ALC3271, Network: Qualcomm Atheros QCA6174 802.11ac

OS: Ubuntu 21.04, Kernel: 5.13.0-051300-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.0-devel (git-0aab06e 2021-07-05 hirsute-oibaf-ppa), Vulkan: 1.2.182, 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-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,armdgn-amdhxa=/build/gcc-10-gDeRY6/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

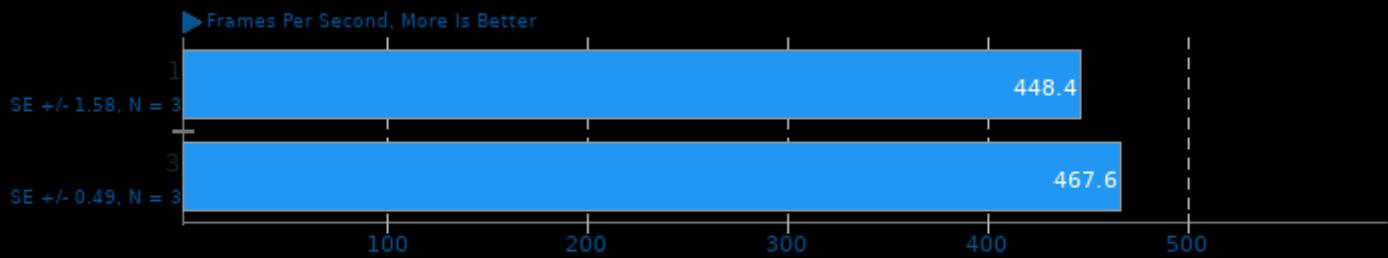
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xea - Thermal 2.4.3

Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Mitigation of Clear buffers; SMT vulnerable + 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 Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbs: Mitigation of Microcode + tsx_async_abort: Not affected

	1	2	3
yquake2 - Vulkan - 1920 x 1080 (FPS)	448.4		467.6
Normalized	95.89%		100%
Standard Deviation	0.6%		0.2%
yquake2 - OpenGL 1.x - 1920 x 1080 (FPS)	118.6	118.8	120.0
Normalized	98.83%	99%	100%
Standard Deviation	0.7%	0.3%	0.9%
yquake2 - OpenGL 3.x - 1920 x 1080 (FPS)	152.5	152.6	152.9
Normalized	99.74%	99.8%	100%
Standard Deviation	0.9%	0.1%	0.3%
yquake2 - Software CPU - 1920 x 1080 (FPS)	99.3	99.6	101.8
Normalized	97.54%	97.84%	100%
Standard Deviation	2.3%	0.2%	1.5%
dav1d - Chimera 1080p (FPS)	320.63	317.76	324.70
Normalized	98.75%	97.86%	100%
Standard Deviation	1.2%	2.5%	2.2%
dav1d - Summer Nature 4K (FPS)	72.18	65.74	70.12
Normalized	100%	91.08%	97.15%
Standard Deviation	10.3%	6.7%	9.1%
dav1d - S.N.1 (FPS)	279.34	279.57	279.45
Normalized	99.92%	100%	99.96%
Standard Deviation	7.6%	6.4%	7.6%
dav1d - C.1.1.b (FPS)		232.93	232.79
Normalized		100%	99.94%
Standard Deviation		0.8%	0.7%

yquake2 8.0

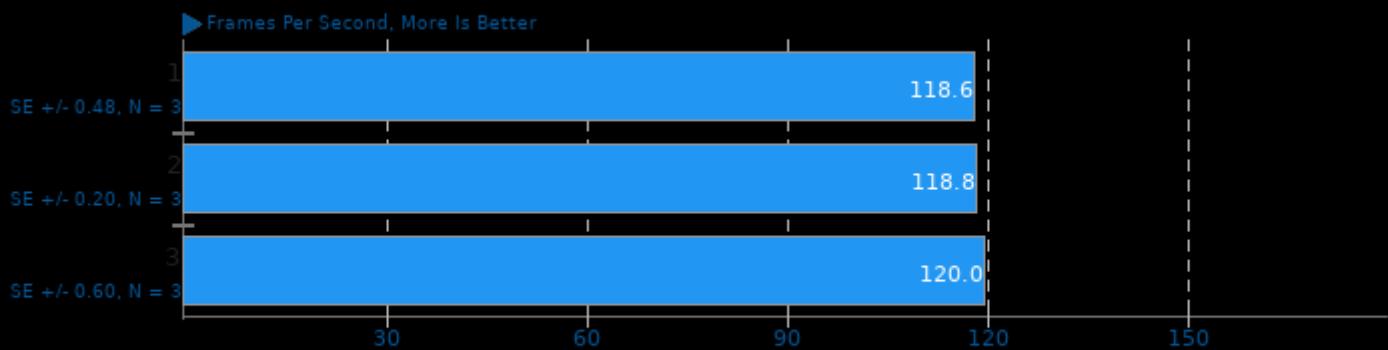
Renderer: Vulkan - Resolution: 1920 x 1080



1. (CC) gcc options: -lm -ldl -rdynamic -shared -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfpmath=sse

yquake2 8.0

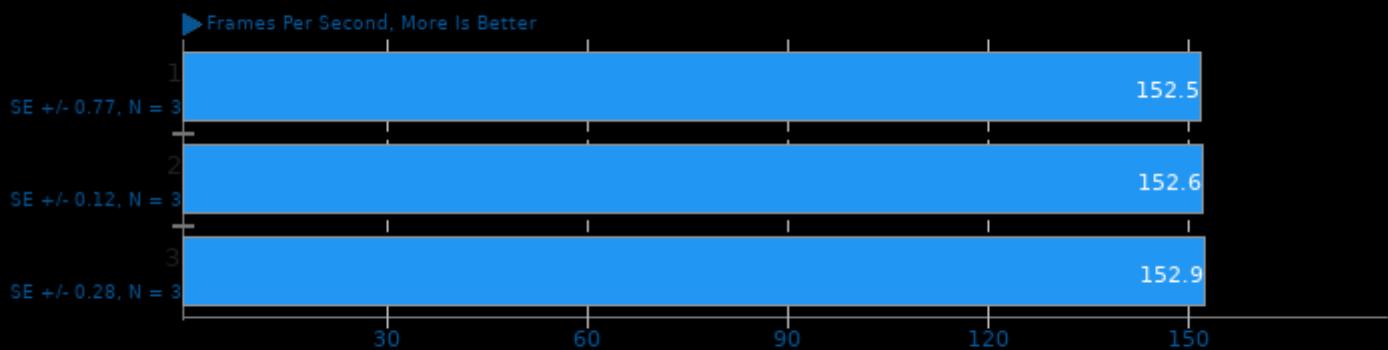
Renderer: OpenGL 1.x - Resolution: 1920 x 1080



1. (CC) gcc options: -lm -ldl -rdynamic -shared -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfpmath=sse

yquake2 8.0

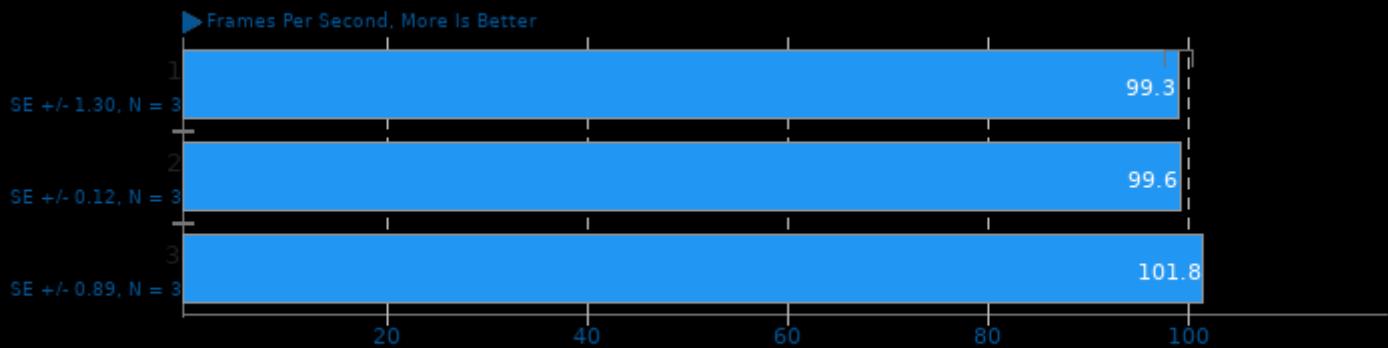
Renderer: OpenGL 3.x - Resolution: 1920 x 1080



1. (CC) gcc options: -lm -ldl -rdynamic -shared -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfpmath=sse

yquake2 8.0

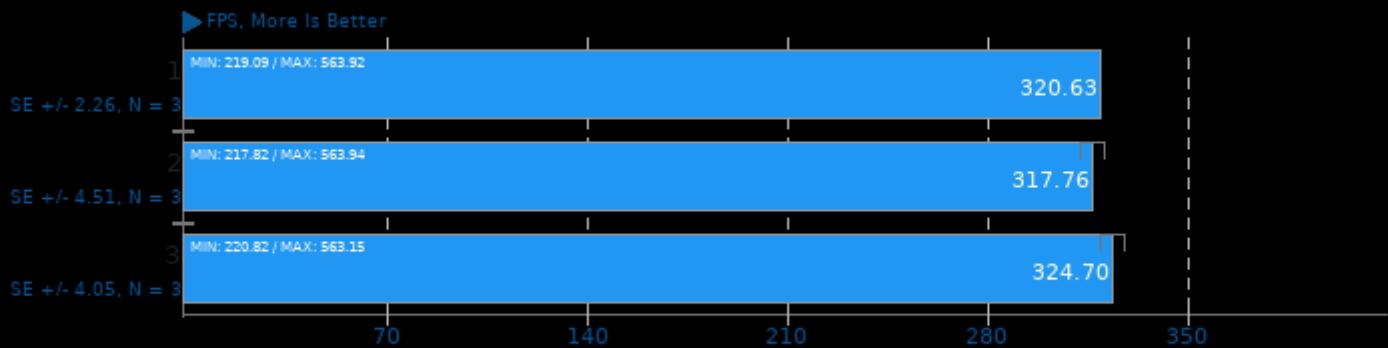
Renderer: Software CPU - Resolution: 1920 x 1080



1. (CC) gcc options: -lm -ldl -rdynamic -shared -ISDL2 -O2 -pipe -fomit-frame-pointer -std=gnu99 -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mf

dav1d 0.9.2

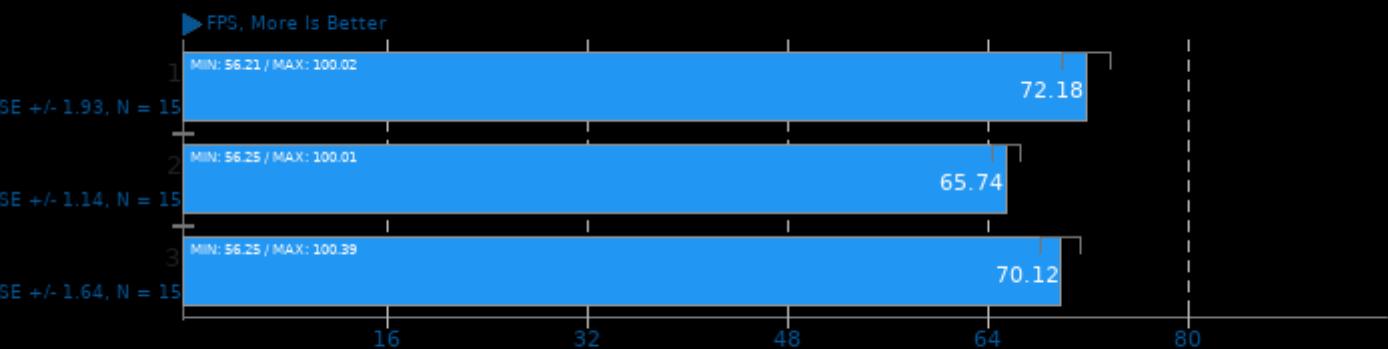
Video Input: Chimera 1080p



1. (CC) gcc options: -pthread -lm

dav1d 0.9.2

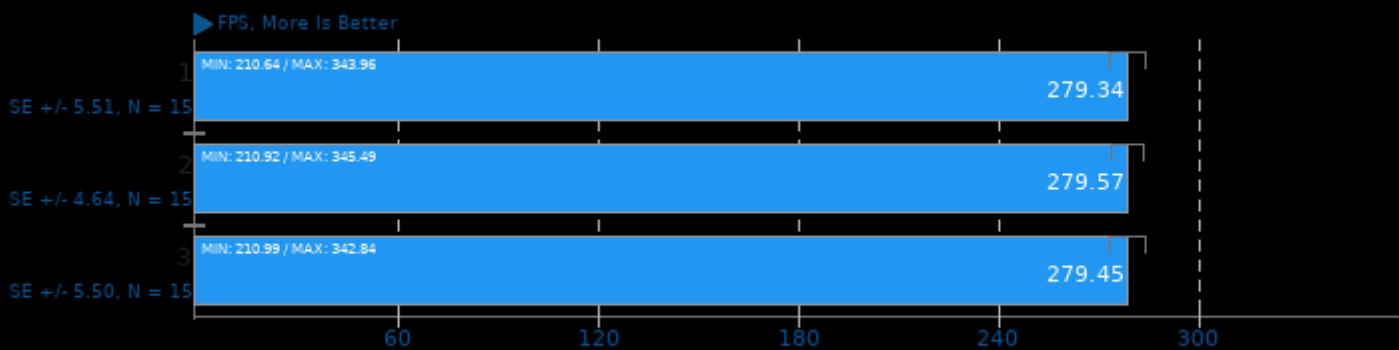
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread -lm

dav1d 0.9.2

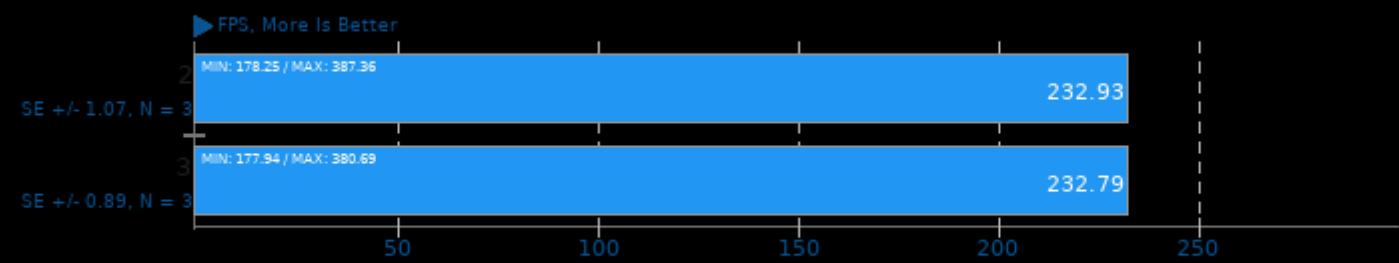
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread -lm

dav1d 0.9.2

Video Input: Chimera 1080p 10-bit



1. (CC) gcc options: -pthread -lm

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:45.