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cpu-t610

Intel Xeon X5660 testing with a Dell 0YD01N (6.6.0 BIOS) and MSI NVIDIA GeForce GTX 950 2GB on Gentoo/Linux via the Phoronix Test Suite.

Test Systems:

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Processor: Intel Xeon X5660 (6 Cores / 12 Threads), Motherboard: Dell 0YD01N (6.6.0 BIOS), Chipset: Intel 5520 I/O + ICH9, Memory: 96GB, Disk: 1000GB Samsung SSD 970 EVO Plus 1TB + 1000GB TOSHIBA MQ01ABD1, Graphics: MSI NVIDIA GeForce GTX 950 2GB, Audio: NVIDIA GM206 HD Audio, Network: 2 x Broadcom NetXtreme II BCM5709

OS: Gentoo/Linux, Kernel: 5.4.28-gentoo (x86_64), Desktop: KDE Plasma 5.19.5, Display Server: X Server 1.20.8, Display Driver: NVIDIA 455.28, Compiler: GCC 10.1.0 + Clang 11.0.0Target: + LLVM 11.0.0 + CUDA 11.1, File-System: ext4

Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/10.1.0 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/10.1.0 --disable-altivec --disable-esp --disable-fixed-point --disable-libada --disable-libmudflap --disable-libssp --disable-systemtap --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time

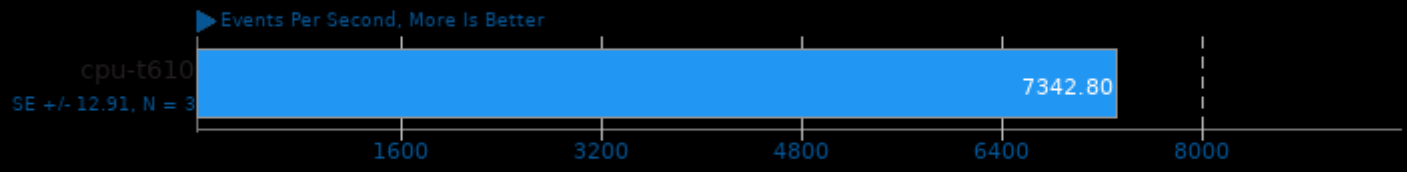
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--enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-sureplt --enable-shared --enable-targets=all --enable-threads=posix --enable-vtable-verify --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/10.1.0/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/10.1.0/man --with-build-config=bootstrap-lto --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/10.1.0/python --with-zstd --without-isl
Processor Notes: CPU Microcode: 0x1f
OpenCL Notes: GPU Compute Cores: 768
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: Vulnerable IBPB: disabled STIBP: disabled + tsx_async_abort: Not affected

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Sysbench - CPU (Events/sec)	7343
Standard Deviation	0.3%
Kvazaar - Bosphorus 4K - Slow (FPS)	0.40
Standard Deviation	1.4%
Kvazaar - Bosphorus 4K - Medium (FPS)	0.41
Standard Deviation	0%
Kvazaar - Bosphorus 1080p - Slow (FPS)	1.80
Standard Deviation	0.3%
Kvazaar - Bosphorus 1080p - Medium (FPS)	1.8
Standard Deviation	0%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	1.27
Standard Deviation	0%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	3.00
Standard Deviation	0.2%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	5.06
Standard Deviation	0.2%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	11.41
Standard Deviation	0.8%
x264 - H.2.V.E (FPS)	19.98
Standard Deviation	11.5%
x265 - Bosphorus 4K (FPS)	4.16
Standard Deviation	0.6%
x265 - Bosphorus 1080p (FPS)	10.28
Standard Deviation	1.6%
Stockfish - Total Time (Nodes/s)	10463065
Standard Deviation	2.1%
asmFish - 1.H.M.2.D (Nodes/s)	12061913
Standard Deviation	0.3%
OpenSSL - R.4.b.P (Signs/sec)	422.6
Standard Deviation	0%
ctx_clock - C.S.T (Clocks)	561
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	6.23933
Standard Deviation	1.2%
Rodinia - OpenMP LavaMD (sec)	104.799
Standard Deviation	1.5%
Rodinia - OpenMP CFD Solver (sec)	236.188
Standard Deviation	0.3%
POV-Ray - Trace Time (sec)	169.688
Standard Deviation	0.2%
Blender - Barbershop - CPU-Only (sec)	2935

Sysbench 2018-07-28

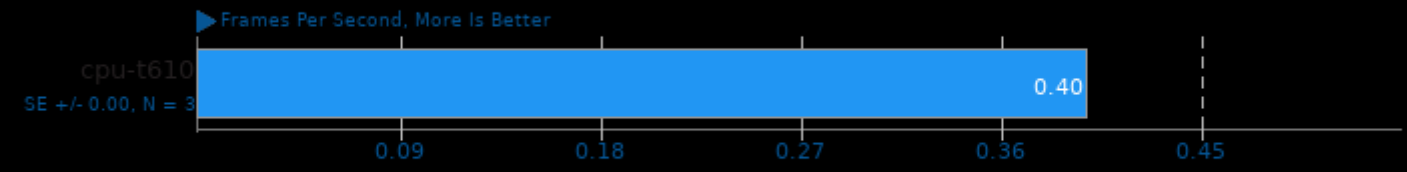
Test: CPU



1. (CC) gcc options: -pthread -O3 -funroll-loops -ggdb3 -march=westmere -rdynamic -ldl -laio -lm

Kvazaar 2.0

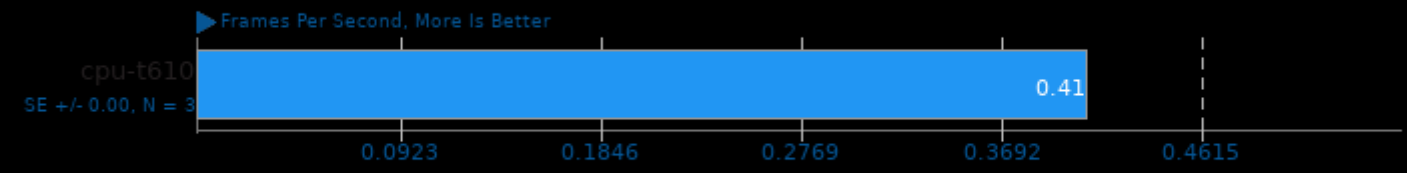
Video Input: Bosphorus 4K - Video Preset: Slow



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

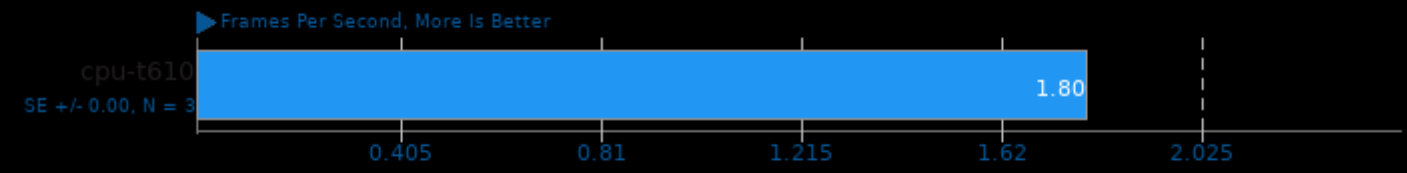
Video Input: Bosphorus 4K - Video Preset: Medium



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

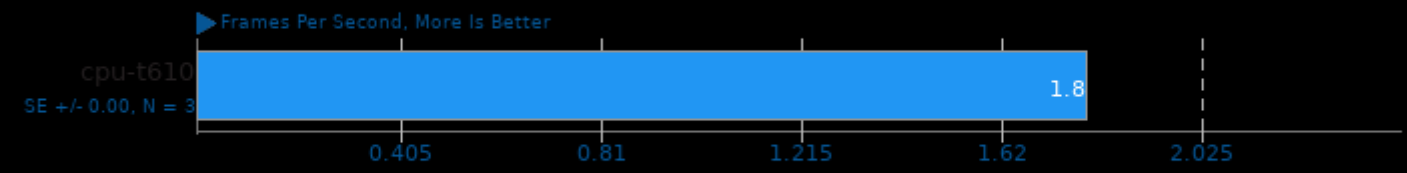
Video Input: Bosphorus 1080p - Video Preset: Slow



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

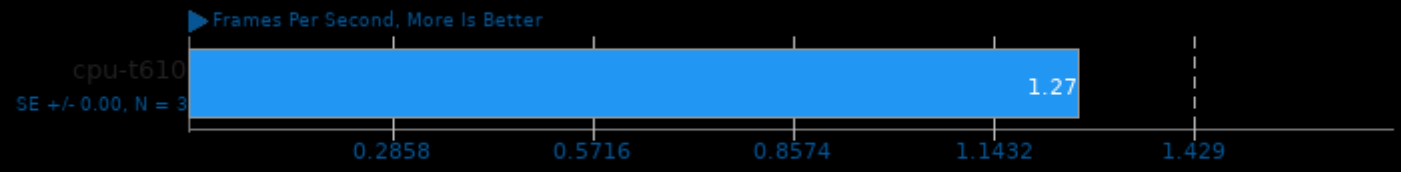
Video Input: Bosphorus 1080p - Video Preset: Medium



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

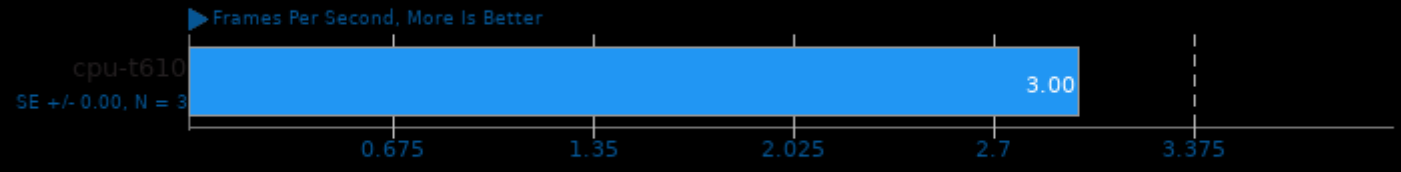
Video Input: Bosphorus 4K - Video Preset: Very Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

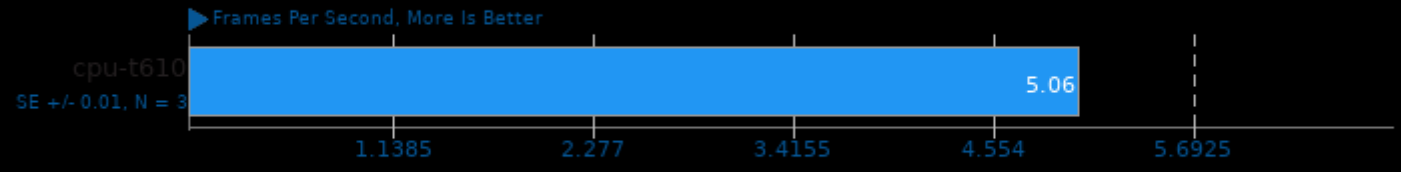
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

Video Input: Bosphorus 1080p - Video Preset: Very Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

x264 2018-09-25

H.264 Video Encoding

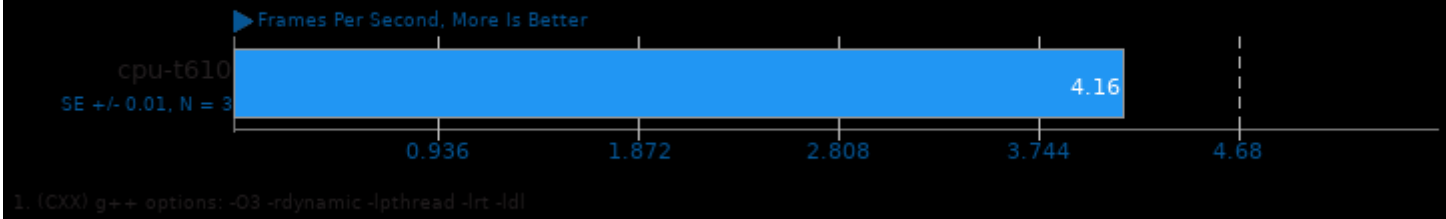


1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectori

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x265 3.4

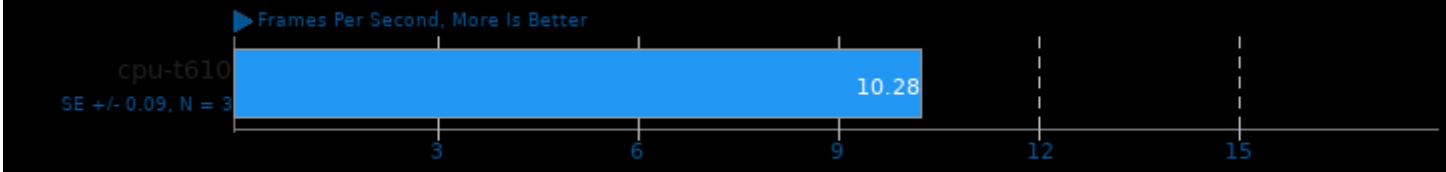
Video Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

x265 3.4

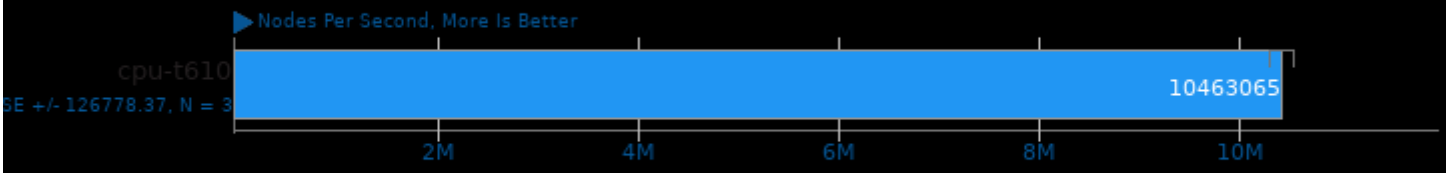
Video Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

Stockfish 9

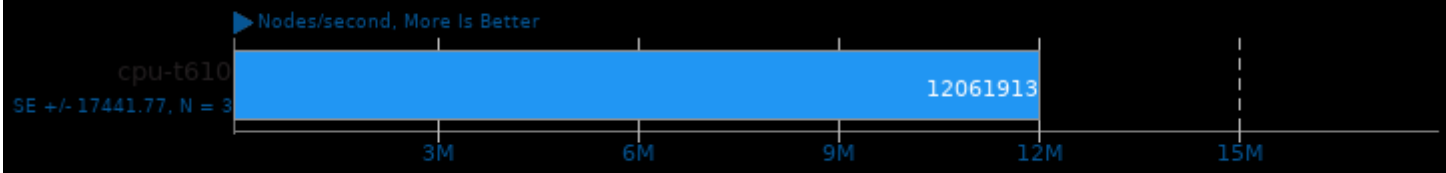
Total Time



1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -flto

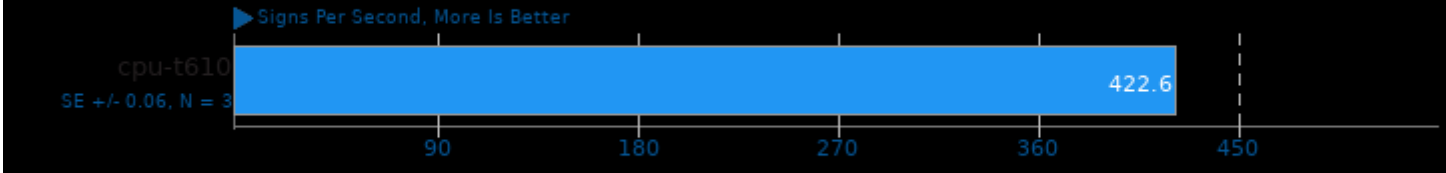
asmFish 2018-07-23

1024 Hash Memory, 26 Depth



OpenSSL 1.1.1

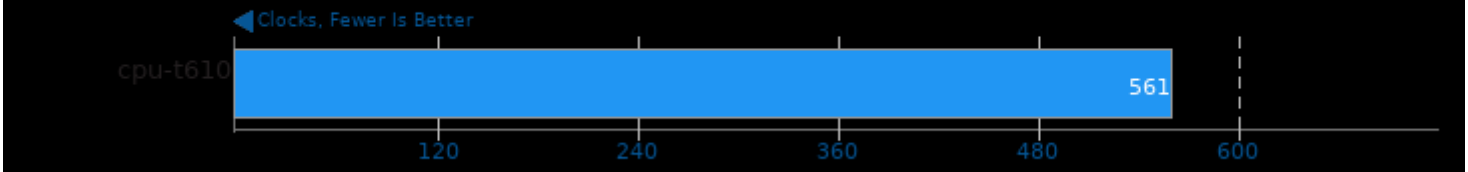
RSA 4096-bit Performance



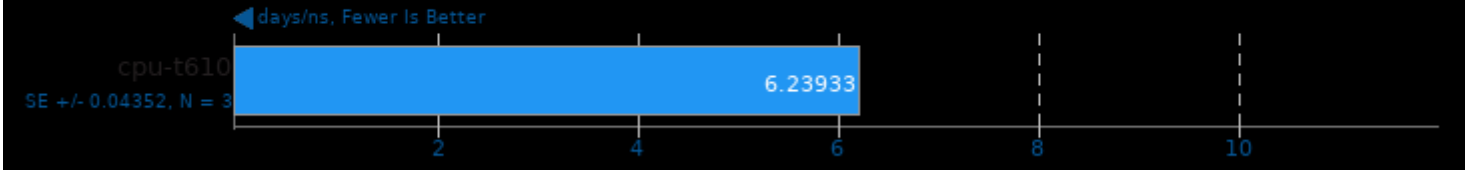
1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

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ctx_clock
Context Switch Time



NAMD 2.13b1
ATPase Simulation - 327,506 Atoms

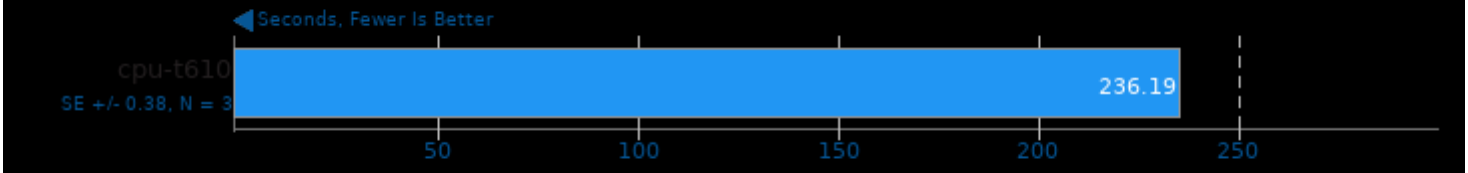


Rodinia 2.4
Test: OpenMP LavaMD



1. (CXX) g++ options: -O2 -lOpenCL

Rodinia 2.4
Test: OpenMP CFD Solver



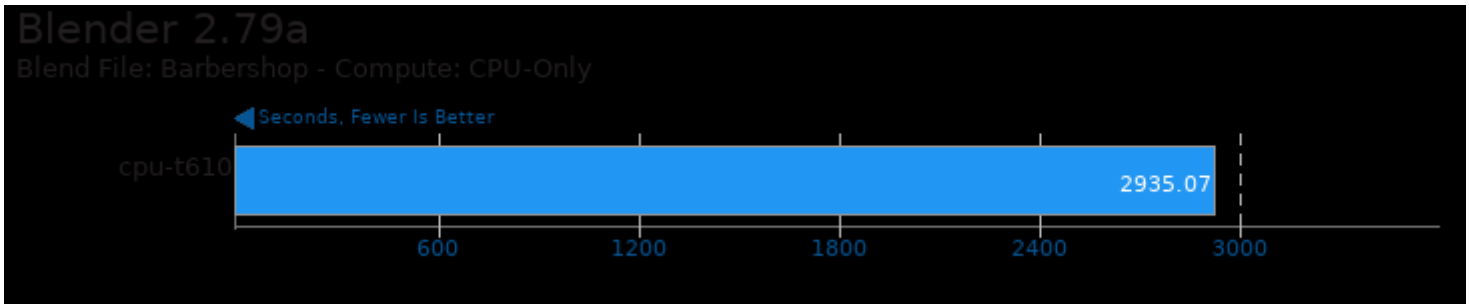
1. (CXX) g++ options: -O2 -lOpenCL

POV-Ray 3.7.0.7
Trace Time



1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -lSDL -lpthread -lXpm -lSM -lICE -lX11 -ltiff -ljpeg -lpng -lz -lrt -lm -lboost_thread -lbo

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