



5950xCPU

Intel Core i7-13700K testing with a MSI MAG B660M MORTAR MAX WIFI DDR4 (MS-7D97) v1.0 (1.30 BIOS) and nouveaudrmfb on Debian GNU/Linux 11 via the Phoronix Test Suite.

Automated Executive Summary

AMD Ryzen 9 5950X 16-Core had the most wins, coming in first place for 40% of the tests.

The results with the greatest spread from best to worst included:

7-Zip Compression (Test: Decompression Rating) at 1.423x

NAMD (ATPase Simulation - 327,506 Atoms) at 1.379x

Sysbench (Test: CPU) at 1.356x

Rodinia (Test: OpenMP CFD Solver) at 1.346x

Timed GCC Compilation (Time To Compile) at 1.325x

Kvazaar (Video Input: Bosphorus 4K - Video Preset: Slow) at 1.299x

Timed Linux Kernel Compilation (Build: defconfig) at 1.297x

Kvazaar (Video Input: Bosphorus 4K - Video Preset: Medium) at 1.294x

Timed Linux Kernel Compilation (Build: allmodconfig) at 1.25x

ctx_clock (Context Switch Time) at 1.25x.

Test Systems:

dajeCPU

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: MSI MAG B550M MORTAR (MS-7C94) v1.0 (1.70 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 8 GB DDR4-3200MT/s LD4BU008G-3200XG, Disk: 1000GB Sabrent Rocket 4.0 1TB + 1000GB Western Digital WDS100T1B0A-, Graphics: Zotac NVIDIA GeForce GT 710 2GB, Audio: NVIDIA GK208 HDMI/DP, Monitor: DELL P1917S, Network: Realtek RTL8125 2.5GbE

OS: Debian GNU/Linux 11, Kernel: 5.15.83-1-pve (x86_64), Display Server: X Server, Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1280x1024

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-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgc-n-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x0

Security Notes: itlb_multihit: Not affected + I1tf: 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 and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSE-elBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

AMD Ryzen 9 5950X 16-Core

Processor: AMD Ryzen 9 5950X 16-Core @ 4.60GHz (16 Cores / 32 Threads), Motherboard: MSI MAG B550M MORTAR (MS-7C94) v1.0 (1.70 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 8 GB DDR4-3200MT/s LD4BU008G-3200XG, Disk: 1000GB Sabrent Rocket 4.0 1TB + 1000GB Western Digital WDS100T1B0A-, Graphics: Zotac NVIDIA GeForce GT 710 2GB, Audio: NVIDIA GK208 HDMI/DP, Monitor: DELL P1917S, Network: Realtek RTL8125 2.5GbE

OS: Debian GNU/Linux 11, Kernel: 5.15.83-1-pve (x86_64), Display Server: X Server, Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, File-System: ext4, Screen Resolution: 1280x1024

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-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgc-n-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x0

Security Notes: itlb_multihit: Not affected + I1tf: 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 and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSE-elBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

stable

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: MSI MAG B550M MORTAR (MS-7C94) v1.0 (1.70 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 8 GB DDR4-3200MT/s LD4BU008G-3200XG, Disk: 1000GB Sabrent Rocket 4.0 1TB + 1000GB Western Digital WDS100T1B0A-, Graphics: Zotac NVIDIA GeForce GT 710 2GB, Audio: NVIDIA GK208 HDMI/DP, Monitor: DELL P1917S, Network: Realtek RTL8125 2.5GbE

OS: Debian GNU/Linux 11, Kernel: 5.15.83-1-pve (x86_64), Display Server: X Server, Vulkan: 1.0.2, Compiler: GCC

10.2.1 20210110, File-System: ext4, Screen Resolution: 1280x1024

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=none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcncmdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x0

Security Notes: itlb_multihit: Not affected + I1tf: 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 and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSE-ElBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

13700k

13700k_Daily

13700_Daily

13700k_Offset_Pump75

Processor: Intel Core i7-13700K @ 5.30GHz (16 Cores / 24 Threads), Motherboard: MSI MAG B660M MORTAR MAX WIFI DDR4 (MS-7D97) v1.0 (1.30 BIOS), Chipset: Intel Device 7aa7, Memory: 2 x 8 GB DDR4-3600MT/s, Disk: 2000GB Samsung SSD 980 PRO 2TB + 1000GB 00T1B0A-00H9, Graphics: nouveaudrmfb, Audio: Realtek ALC897, Monitor: BenQ EW3270U, Network: Realtek RTL8125 2.5GbE + Intel Device 7af0

OS: Debian GNU/Linux 11, Kernel: 5.15.83-1-pve (x86_64), Display Server: X Server, Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, 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-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=none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcncmdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/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 performance (EPP: performance) - CPU Microcode: 0x10f

Security Notes: itlb_multihit: Not affected + I1tf: 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 and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSE-ElBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

Intel Core i7-13700K

Processor: Intel Core i7-13700K @ 5.30GHz (16 Cores / 24 Threads), Motherboard: MSI MAG B660M MORTAR MAX WIFI DDR4 (MS-7D97) v1.0 (1.30 BIOS), Chipset: Intel Device 7aa7, Memory: 2 x 8 GB DDR4-3600MT/s, Disk: 2000GB Samsung SSD 980 PRO 2TB + 1000GB 00T1B0A-00H9 + 123GB SanDisk 3.2Gen1, Graphics: nouveaudrmfb, Audio: Realtek ALC897, Monitor: BenQ EW3270U, Network: Realtek RTL8125 2.5GbE + Intel Device 7af0

OS: Debian GNU/Linux 11, Kernel: 5.15.83-1-pve (x86_64), Display Server: X Server, Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, 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-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=none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcncmdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/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 performance (EPP: performance) - CPU Microcode: 0x10f

Security Notes: itlb_multihit: Not affected + I1tf: 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 and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSE-elBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

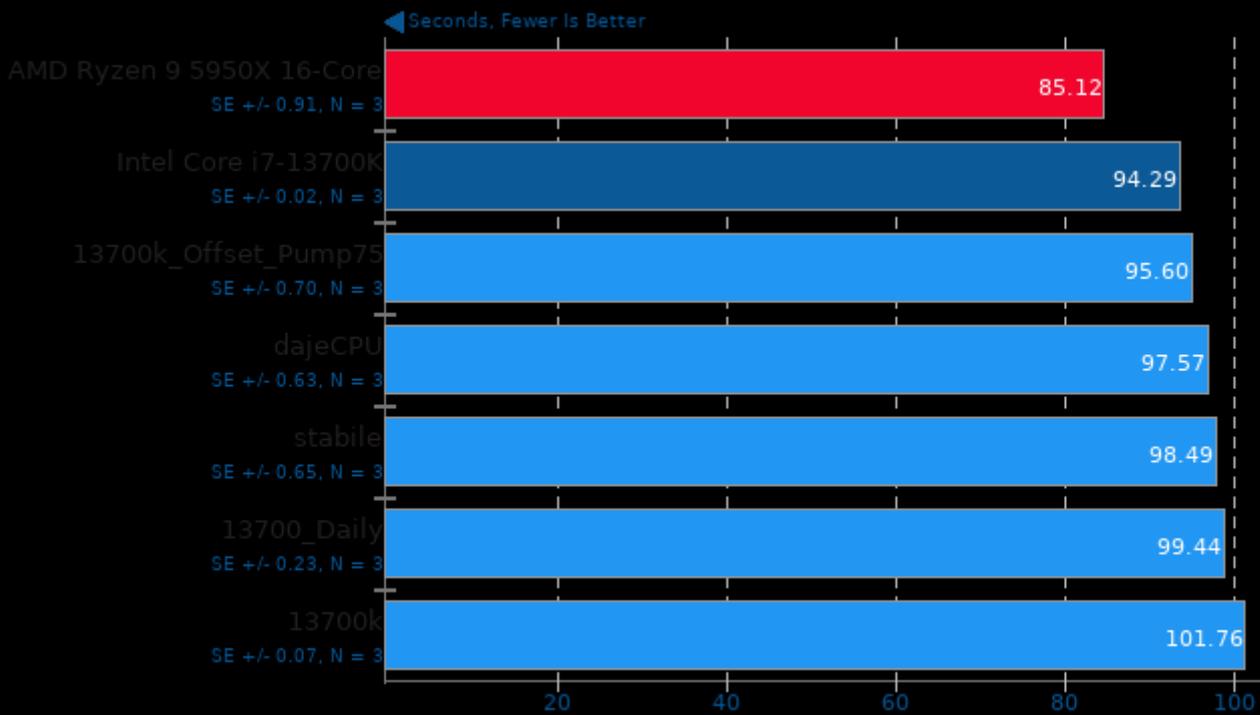
	dajeCPU	AMD Ryzen 9 5950X	stabile	13700k	13700k_Da ily	13700_Dail y	13700k_Off set_Pump7 5	Intel Core i7-13700K
Rodinia - OpenMP LavaMD (sec)	97.565	85.116	98.492	101.762		99.435	95.596	94.292
Normalized	87.24%	100%	86.42%	83.64%		85.6%	89.04%	90.27%
Standard Deviation	1.1%	1.9%	1.1%	0.1%		0.4%	1.3%	0%
Rodinia - OpenMP CFD Solver (sec)	11.104	10.746	11.028	8.425		8.538	8.318	8.247
Normalized	74.27%	76.74%	74.78%	97.89%		96.59%	99.15%	100%
Standard Deviation	0.8%	0.7%	0.6%	1.9%		3.2%	2%	0.1%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	1.00772	0.92787	0.99973	0.78731			0.73101	0.73328
Normalized	72.54%	78.78%	73.12%	92.85%			100%	99.69%
Standard Deviation	0.3%	0.6%	0.6%	0.1%			0.8%	0.5%
Kvazaar - Bosphorus 4K - Slow (FPS)	16.98	18.57	16.6	14.30			14.77	14.72
Normalized	91.44%	100%	89.39%	77.01%			79.54%	79.27%
Standard Deviation	1.6%	1.7%	1%	1.7%			2.2%	4.6%
Kvazaar - Bosphorus 4K - Medium (FPS)	17.55	19.29	17.18	14.91			15.43	15.44
Normalized	90.98%	100%	89.06%	77.29%			79.99%	80.04%
Standard Deviation	0.1%	0.1%	0.1%	0.2%			0.1%	0.1%
Kvazaar - Bosphorus 1080p - Slow (FPS)	69.66	71.99	66.44	61.37			61.52	60.94
Normalized	96.76%	100%	92.29%	85.25%			85.46%	84.65%
Standard Deviation	0.1%	2.4%	2.4%	4.3%			4.1%	6.4%
Kvazaar - Bosphorus 1080p - Medium (FPS)	72.48	75.43	69.80	64.32			64.75	64.76
Normalized	96.09%	100%	92.54%	85.27%			85.84%	85.85%
Standard Deviation	0.1%	0.1%	0%	0.1%			0.6%	0.6%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	38.46	41.53	37.16	36.13			37.08	37.15
Normalized	92.61%	100%	89.48%	87%			89.28%	89.45%
Standard Deviation	0.3%	0.3%	0%	0%			0%	0.1%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	62.58	67.62	55.39	59.56			60.56	60.77
Normalized	92.55%	100%	81.91%	88.08%			89.56%	89.87%
Standard Deviation	0.3%	0.3%	1%	0.4%			0.2%	0.2%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	150.89	158.01	145.70	130.24			131.36	131.82
Normalized	95.49%	100%	92.21%	82.43%			83.13%	83.43%
Standard Deviation	0.2%	0.3%	0.3%	0.5%			0.4%	0.6%

Kvazaar - Bosphorus	237.15	248.33	229.75	233.05	233.44	233.07
1080p - Ultra Fast (FPS)						
Normalized	95.5%	100%	92.52%	93.85%	94%	93.85%
Standard Deviation	0.2%	0.2%	0.5%	0%	0.4%	0.2%
x264 - Bosphorus 4K	52.29	53.15	50.44	51.61	52.50	49.12
(FPS)						
Normalized	98.38%	100%	94.9%	97.1%	98.78%	92.42%
Standard Deviation	15.9%	20.1%	18.1%	17%	19.7%	36.5%
x264 - Bosphorus	213.15	222.54	205.67	217.97	219.77	212.77
1080p (FPS)						
Normalized	95.78%	100%	92.42%	97.95%	98.76%	95.61%
Standard Deviation	16.3%	16.5%	15.6%	12.1%	12.3%	25.7%
x265 - Bosphorus 4K	28.10	28.92	27.17	30.35	31.34	29.38
(FPS)						
Normalized	89.66%	92.28%	86.69%	96.84%	100%	93.75%
Standard Deviation	3.2%	2.6%	2.4%	1.5%	1.8%	23.6%
x265 - Bosphorus	93.29	93.23	91.45	91.77	91.82	89.66
1080p (FPS)						
Normalized	100%	99.94%	98.03%	98.37%	98.42%	96.11%
Standard Deviation	0.9%	1.1%	1%	3.4%	3.8%	11.3%
7-Zip Compression -	95850	95612	96404	93857	93916	93496
Compression Rating						
(MIPS)						
Normalized	99.43%	99.18%	100%	97.36%	97.42%	96.98%
Standard Deviation	0.2%	0.1%	0.6%	0%	0%	0.1%
7-Zip Compression -	149990	153966	148858	108519	108216	108605
D.R (MIPS)						
Normalized	97.42%	100%	96.68%	70.48%	70.29%	70.54%
Standard Deviation	0.2%	0.2%	0.2%	1.4%	1.4%	1.1%
Stockfish - Total Time	56065368		56557496	52568946	55283704	53225104
(Nodes/s)						
Normalized	99.13%		100%	92.95%	97.75%	94.11%
Standard Deviation	1.8%		3.9%	2.3%	1.8%	1.5%
asmFish - 1.H.M.2.D	63855244		63665759	58404154	60236310	60229242
(Nodes/s)						
Normalized	100%		99.7%	91.46%	94.33%	94.32%
Standard Deviation	1.6%		0.9%	0.7%	1.5%	0.5%
Timed GCC	637.364		633.159	481.095		557.288
Compilation - Time To						
Normalized	75.48%		75.98%	100%		86.33%
Standard Deviation	0.4%		0.4%	0.9%		0.4%
Timed Linux Kernel	52.493		52.252	47.403		61.473
Compilation - defconfig						
(sec)						
Normalized	90.3%		90.72%	100%		77.11%
Standard Deviation	1.5%		2%	2.1%		0.3%
Timed Linux Kernel	659.635		658.430	592.649		740.830
Compilation -						
allmodconfig (sec)						
Normalized	89.84%		90.01%	100%		80%
Standard Deviation	0.5%		0.5%	0.2%		0.3%

POV-Ray - Trace Time	20.951	20.690	20.247	18.956
(sec)				
Normalized	90.48%	91.62%	93.62%	100%
Standard Deviation	0.9%	0.6%	0.1%	0.3%
Radiance Benchmark -	421.588	420.959	369.127	369.708
Serial (sec)				
Normalized	87.56%	87.69%	100%	99.84%
Radiance Benchmark -	133.619	129.061	117.184	116.692
SMP Parallel (sec)				
Normalized	87.33%	90.42%	99.58%	100%
OpenSSL - SHA256	288312284	296296297	256538146	263948171
(byte/s)	30	50	43	33
Normalized	97.31%	100%	86.58%	89.08%
Standard Deviation	0.2%	0.2%	0.4%	0.2%
OpenSSL - RSA4096	5198	5136	4557	4695
(sign/s)				
Normalized	100%	98.81%	87.66%	90.31%
Standard Deviation	0.3%	0.1%	0.2%	0.1%
OpenSSL - RSA4096	339156	333254	297817	304559
(verify/s)				
Normalized	100%	98.26%	87.81%	89.8%
Standard Deviation	0.1%	0.1%	0%	0.1%
ctx_clock - C.S.T	170	136	157	157
(Clocks)				
Normalized	80%	100%	86.62%	86.62%
Standard Deviation			0.4%	
Sysbench - CPU	94434	96497	71344	71140
(Events/sec)				
Normalized	97.86%	100%	73.93%	73.72%
Standard Deviation	0.1%	0.1%	0%	0%

Rodinia 3.1

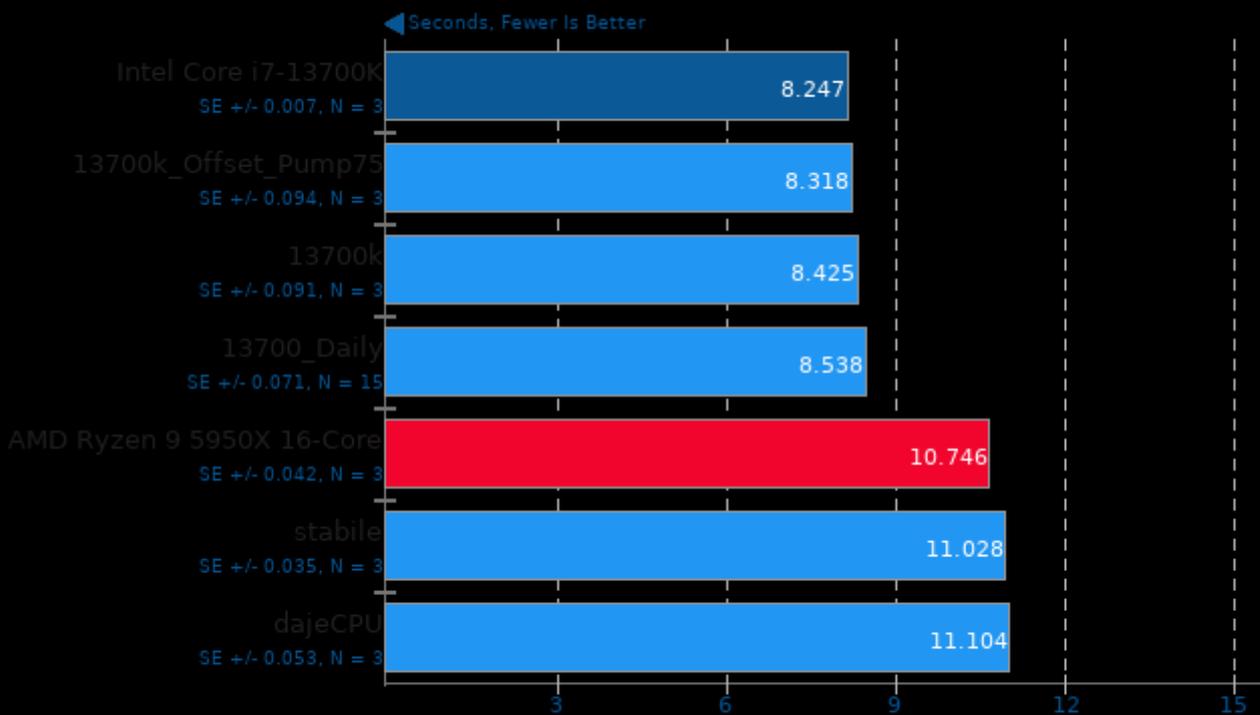
Test: OpenMP LavaMD



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

Rodinia 3.1

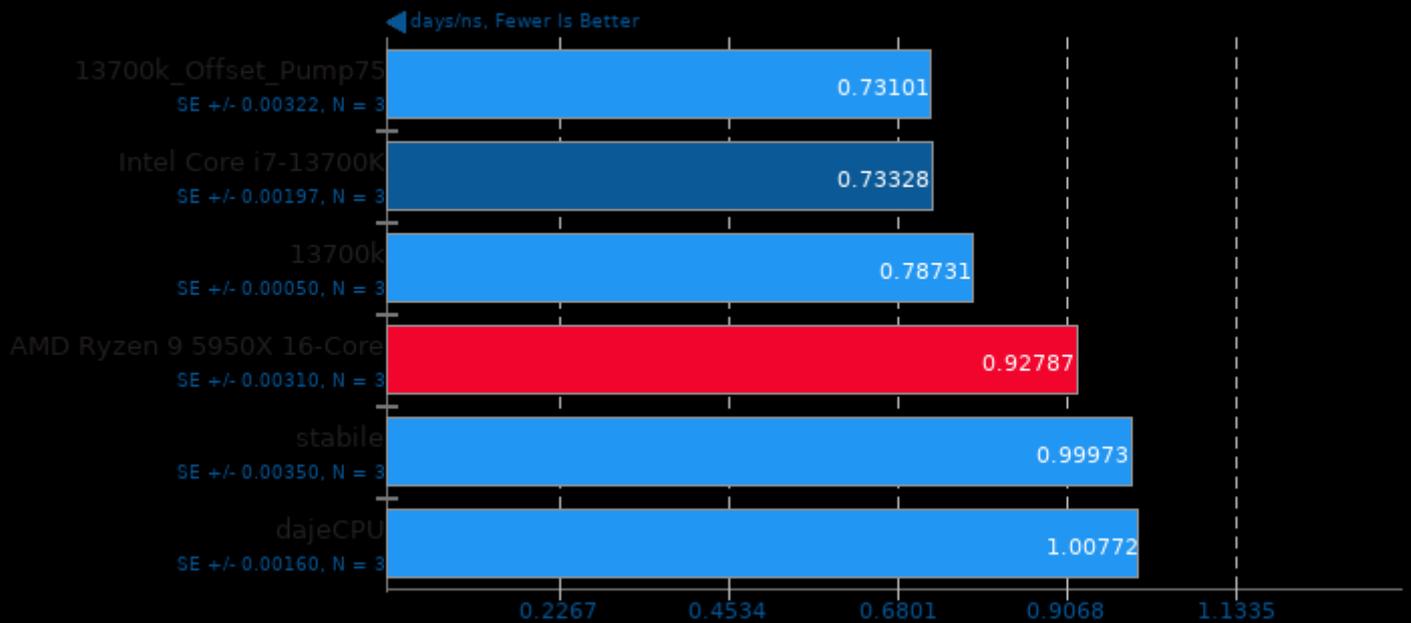
Test: OpenMP CFD Solver



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

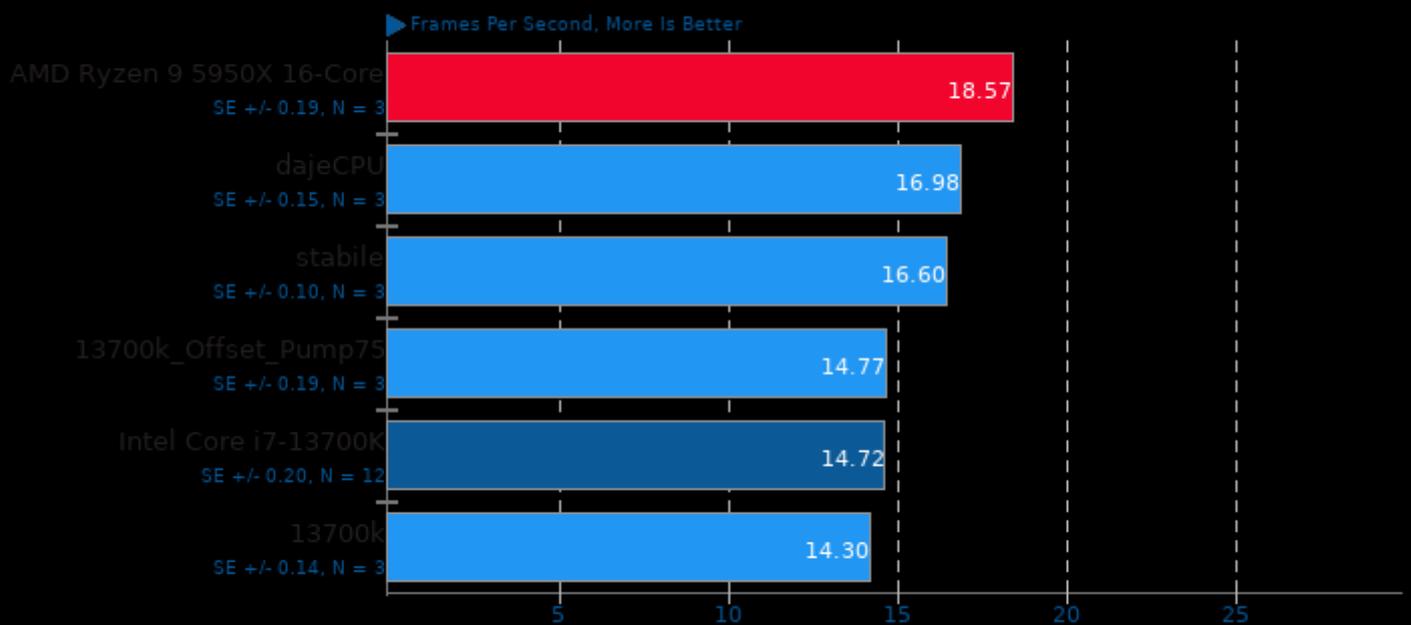
NAMD 2.14

ATPase Simulation - 327,506 Atoms



Kvazaar 2.2

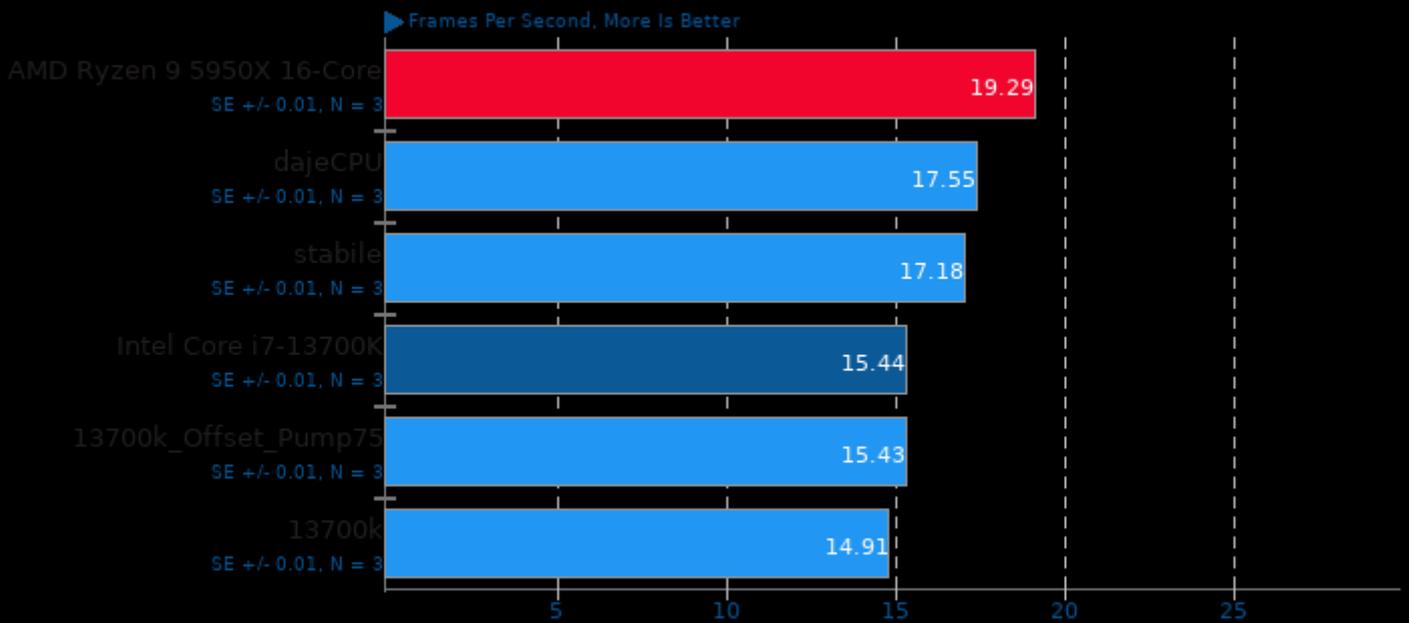
Video Input: Bosphorus 4K - Video Preset: Slow



1, (C) gcc options: -pthread -free-vectorize -fvisibility=hidden -O2 -pthread -lm -lrt

Kvazaar 2.2

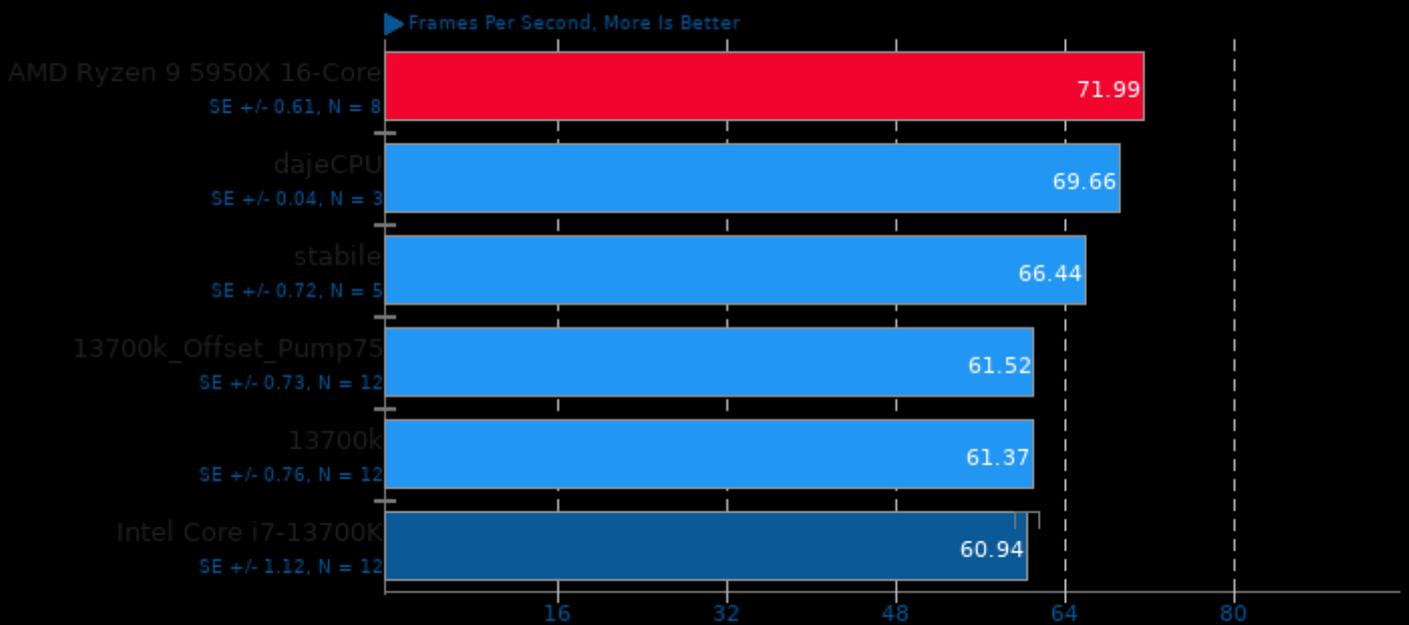
Video Input: Bosphorus 4K - Video Preset: Medium



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

Kvazaar 2.2

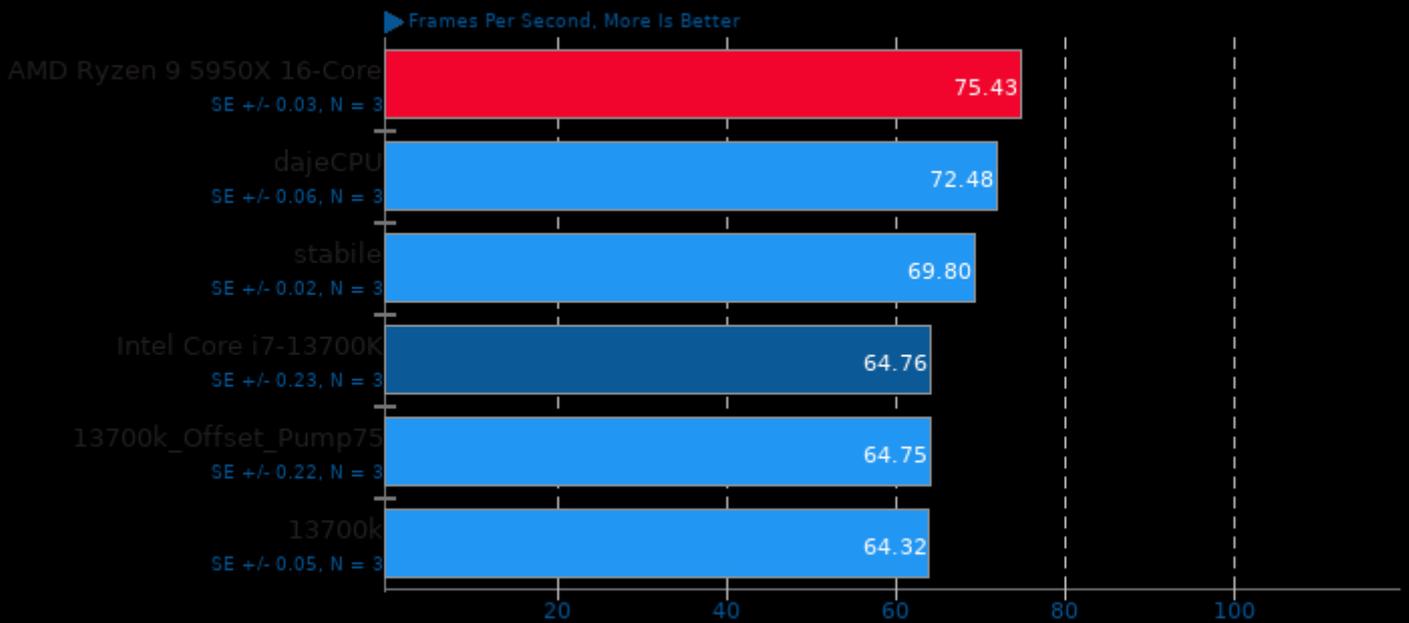
Video Input: Bosphorus 1080p - Video Preset: Slow



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

Kvazaar 2.2

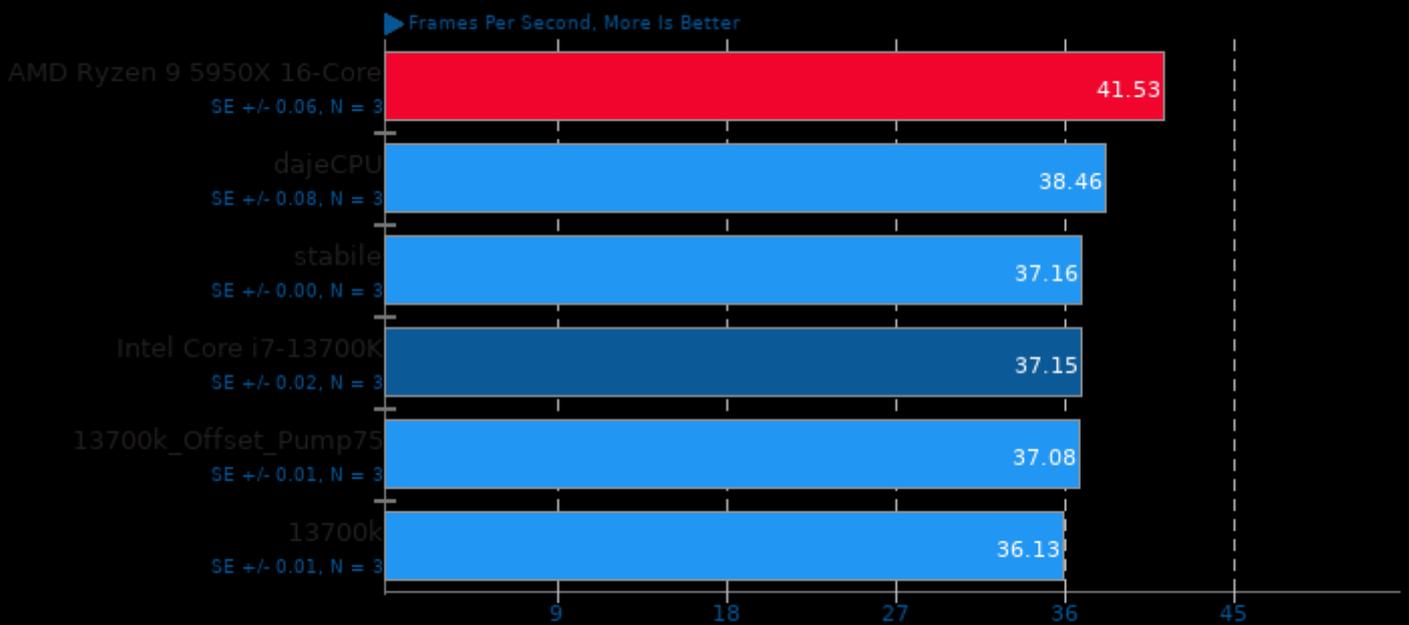
Video Input: Bosphorus 1080p - Video Preset: Medium



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

Kvazaar 2.2

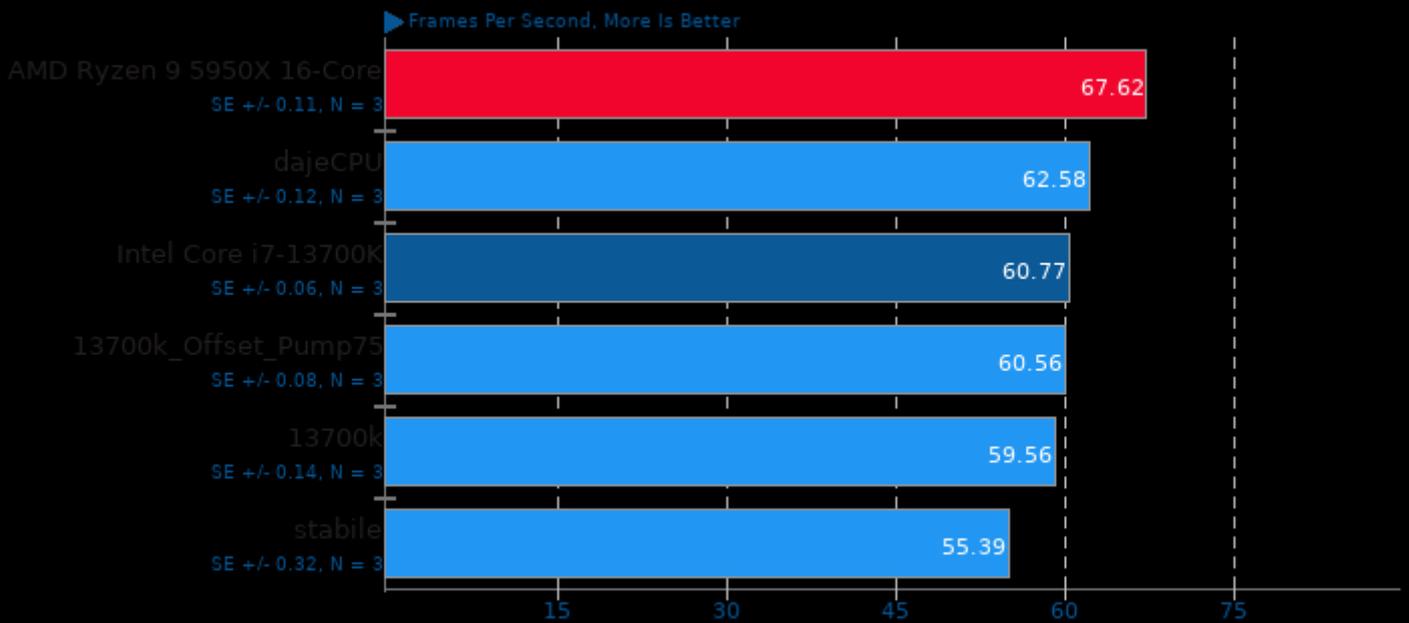
Video Input: Bosphorus 4K - Video Preset: Very Fast



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

Kvazaar 2.2

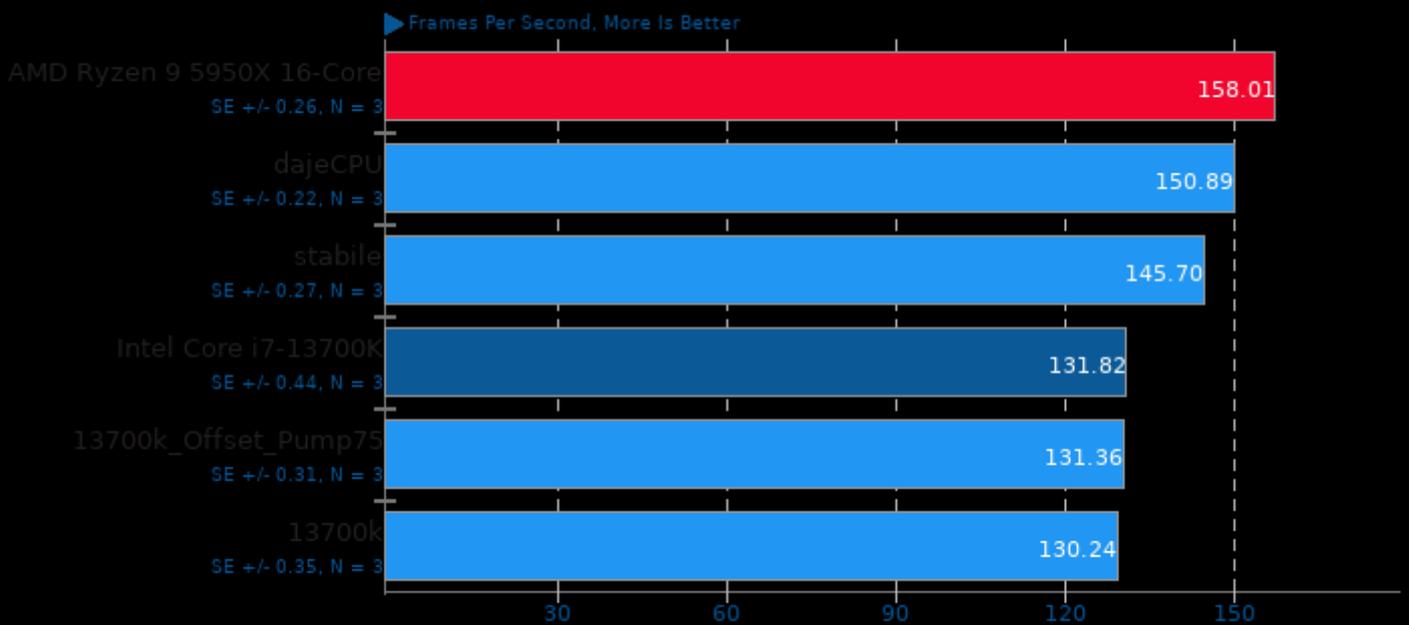
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



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

Kvazaar 2.2

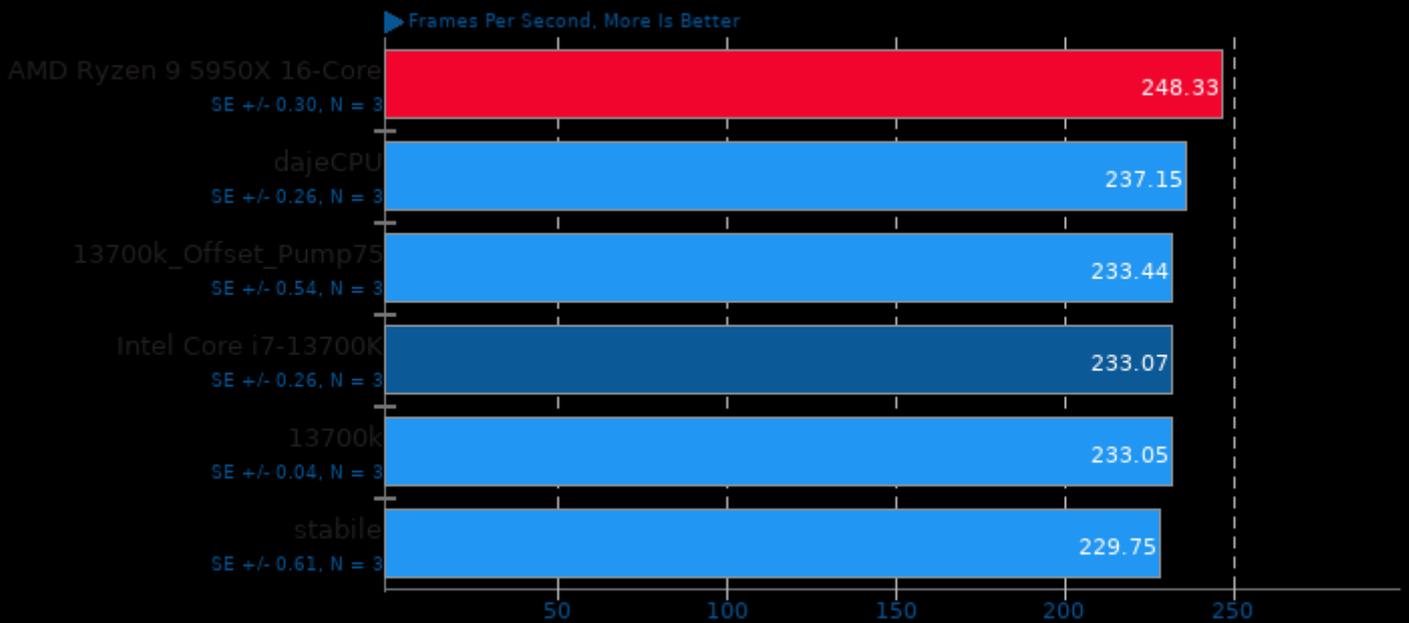
Video Input: Bosphorus 1080p - Video Preset: Very Fast



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

Kvazaar 2.2

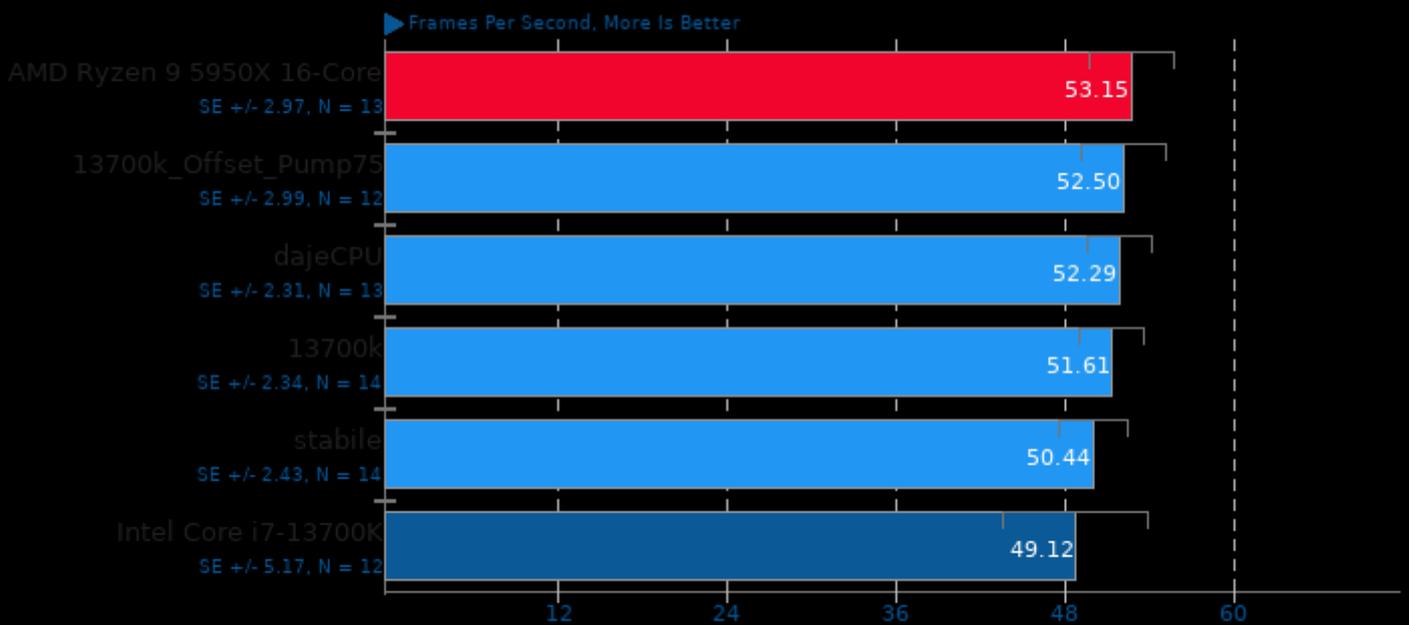
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



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

x264 2022-02-22

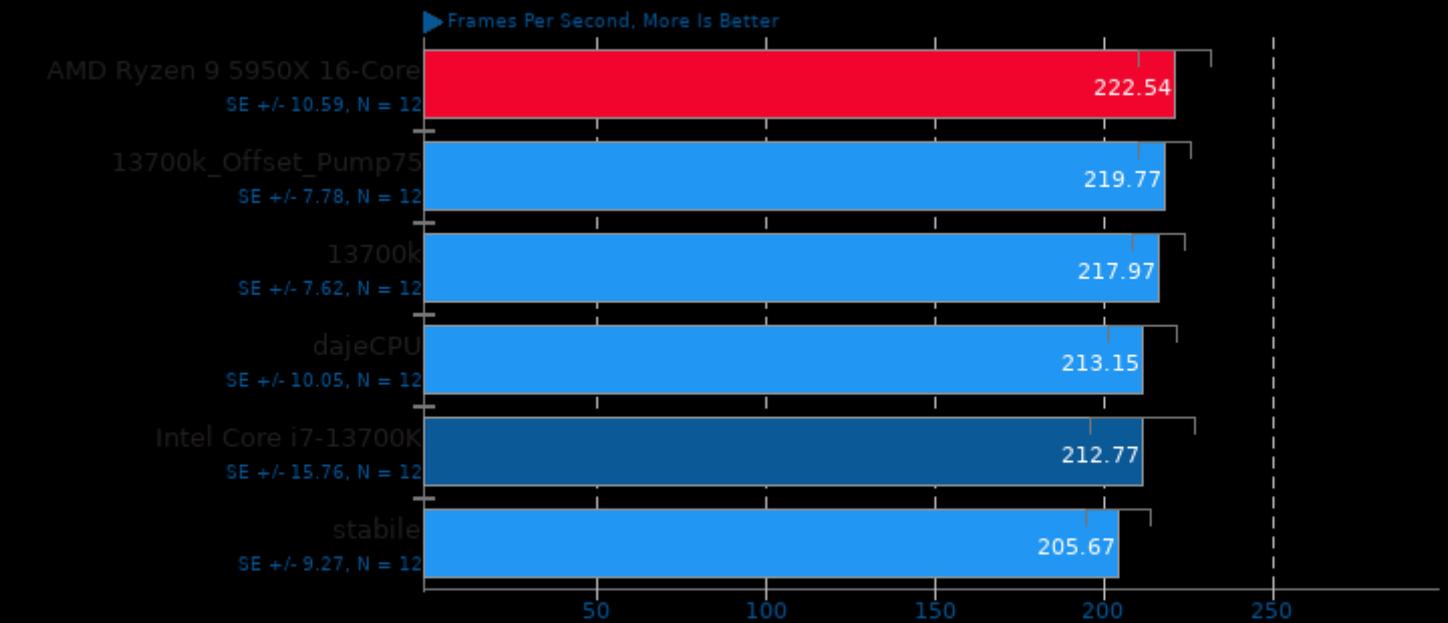
Video Input: Bosphorus 4K



1. (CC) gcc options: -dnl -m64 -lm -lthread -O3 -fno

x264 2022-02-22

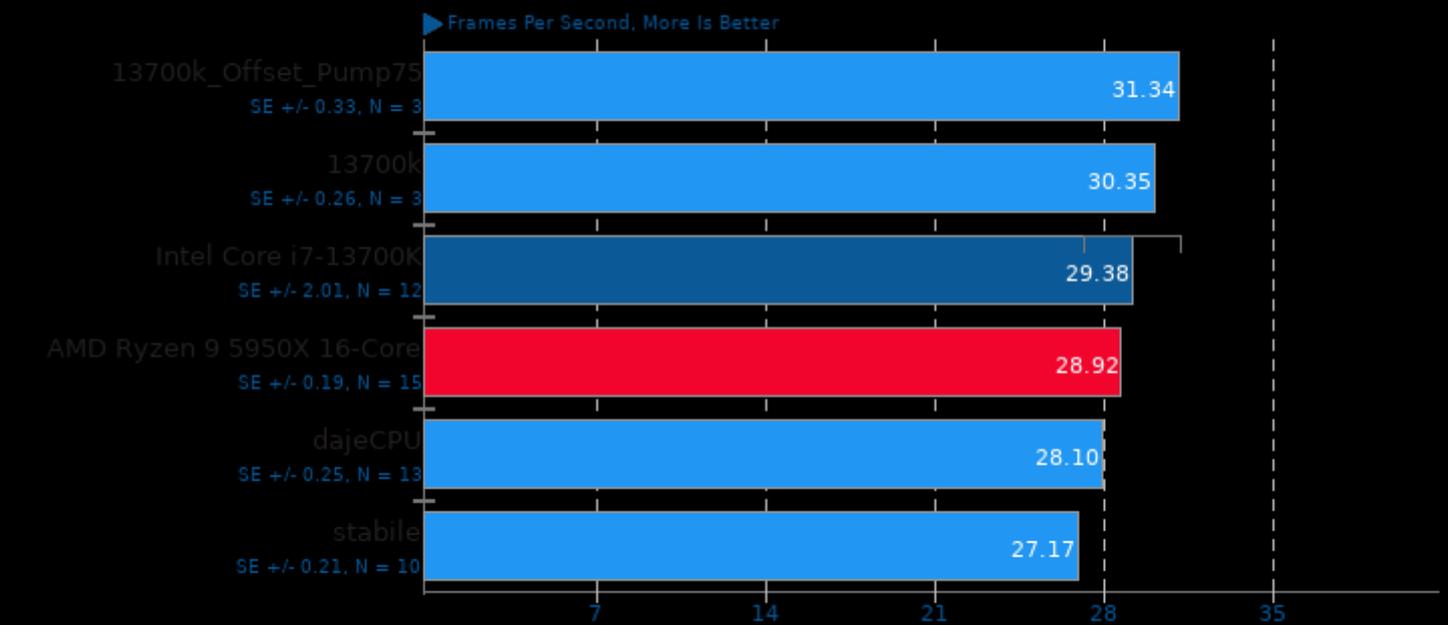
Video Input: Bosphorus 1080p



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -fno

x265 3.4

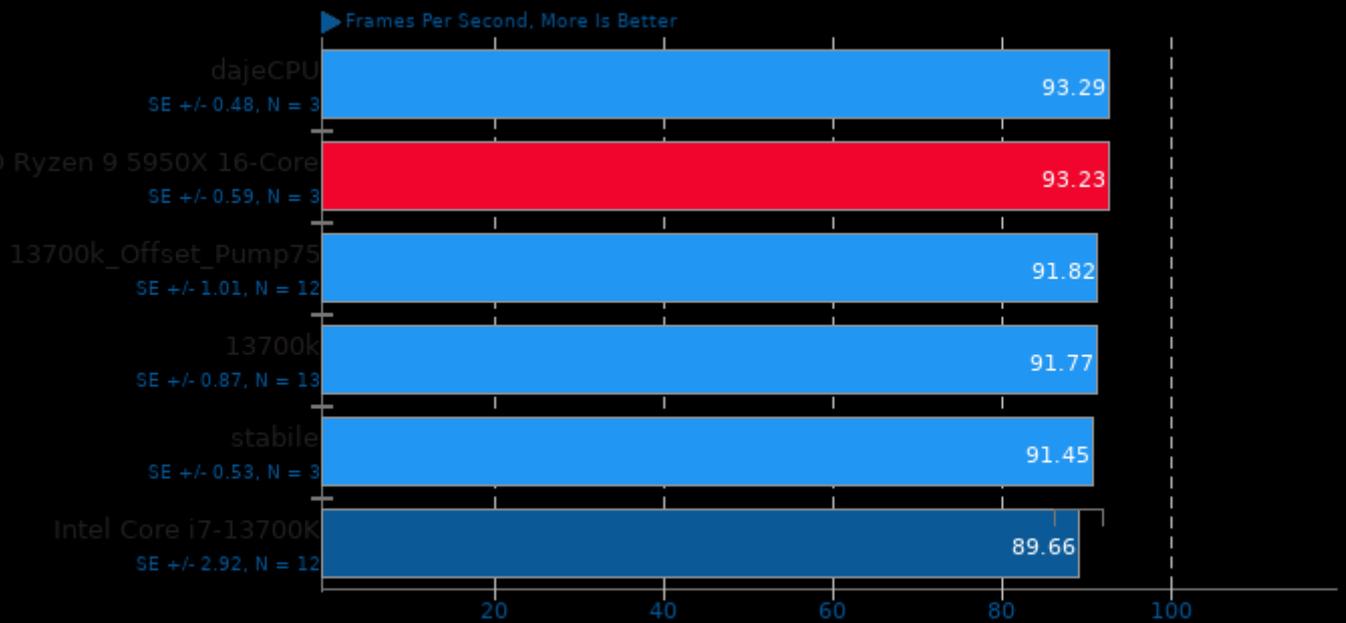
Video Input: Bosphorus 4K



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

x265 3.4

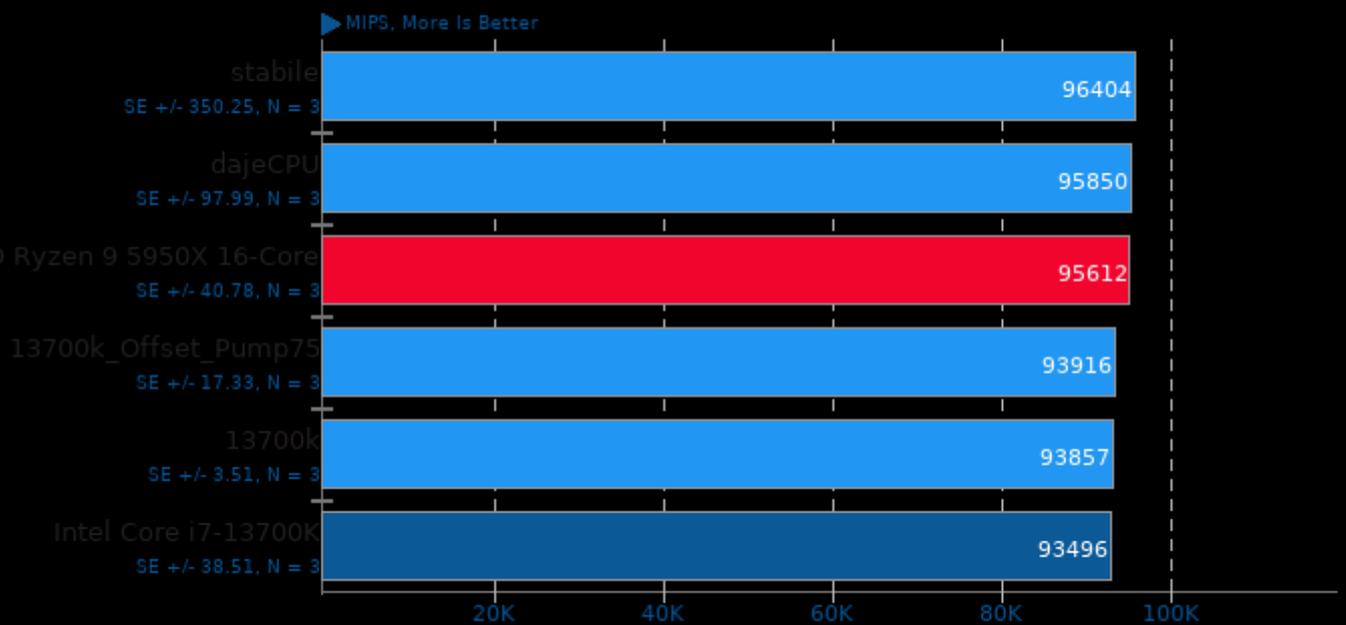
Video Input: Bosphorus 1080p



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

7-Zip Compression 22.01

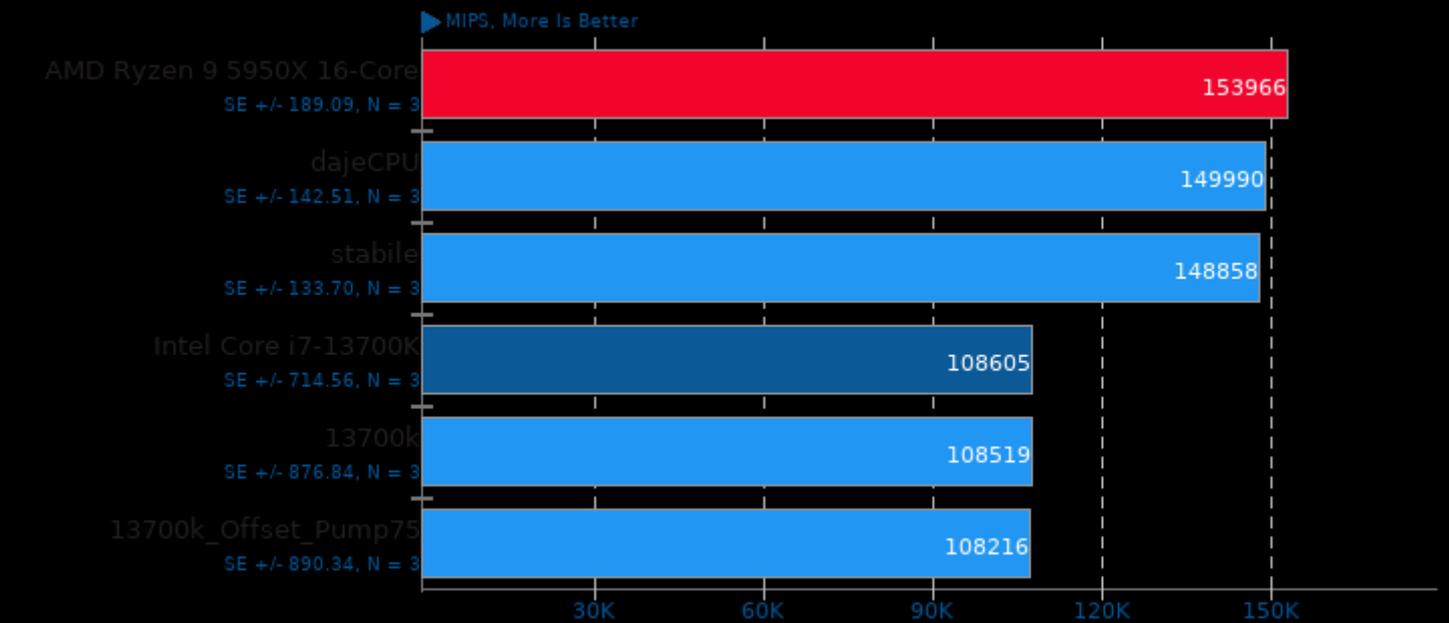
Test: Compression Rating



1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

7-Zip Compression 22.01

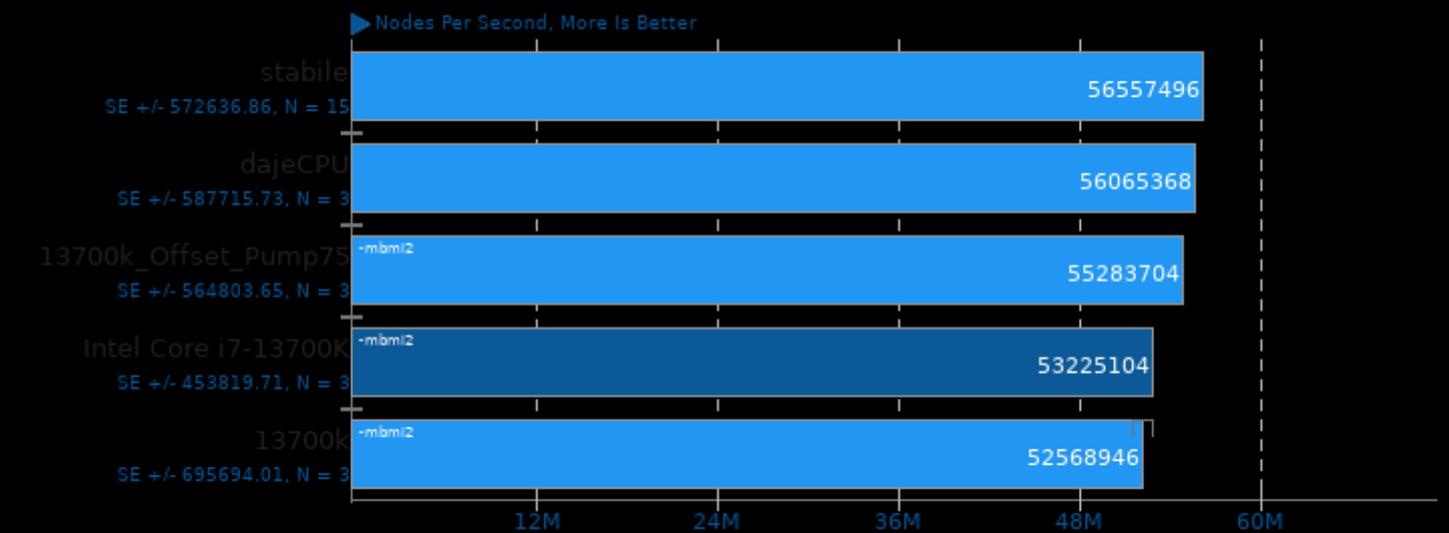
Test: Decompression Rating



1. (CXX) g++ options: -pthread -ldl -O2 -fPIC

Stockfish 15

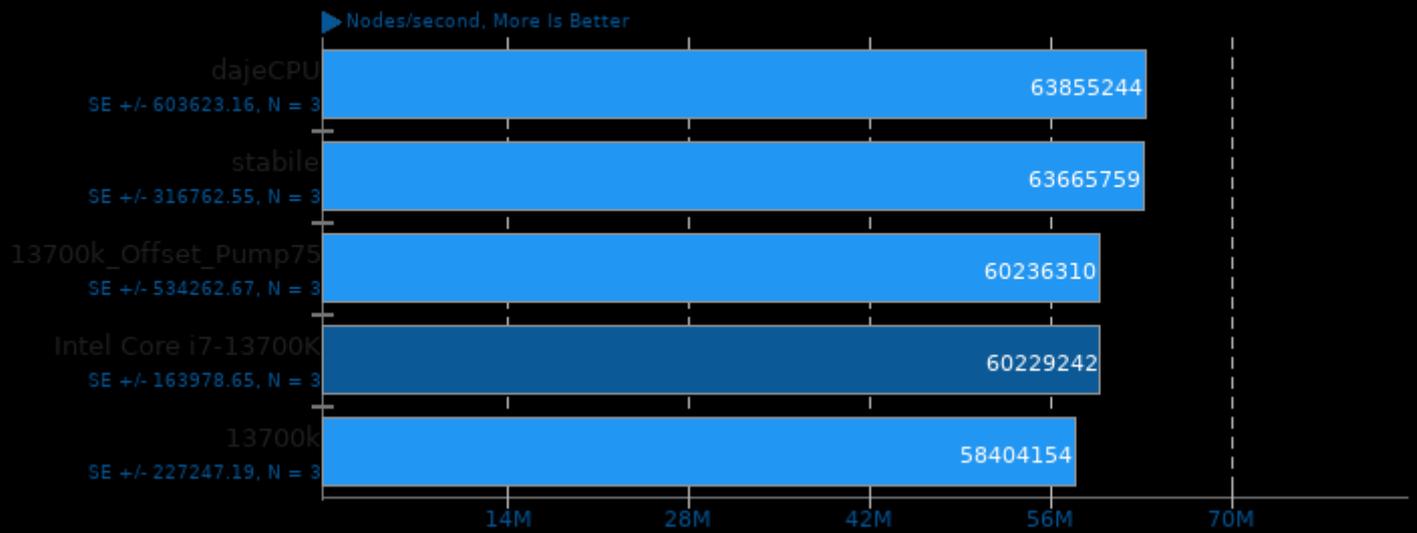
Total Time



1. (CXX) g++ options: -lgcov -m64 -pthread -fno-exceptions -std=c++17 -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt -mavx2 -msse4

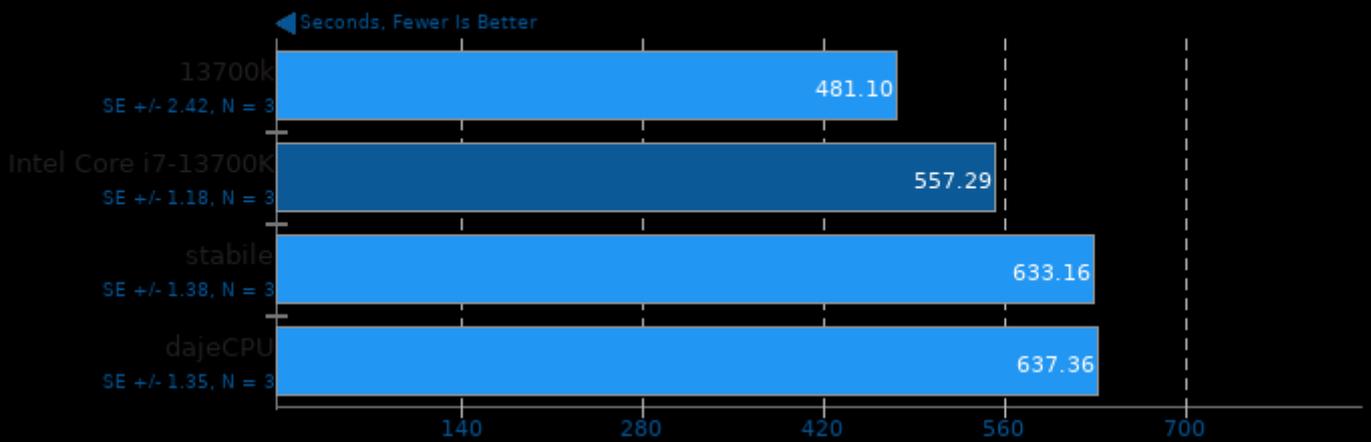
asmFish 2018-07-23

1024 Hash Memory, 26 Depth



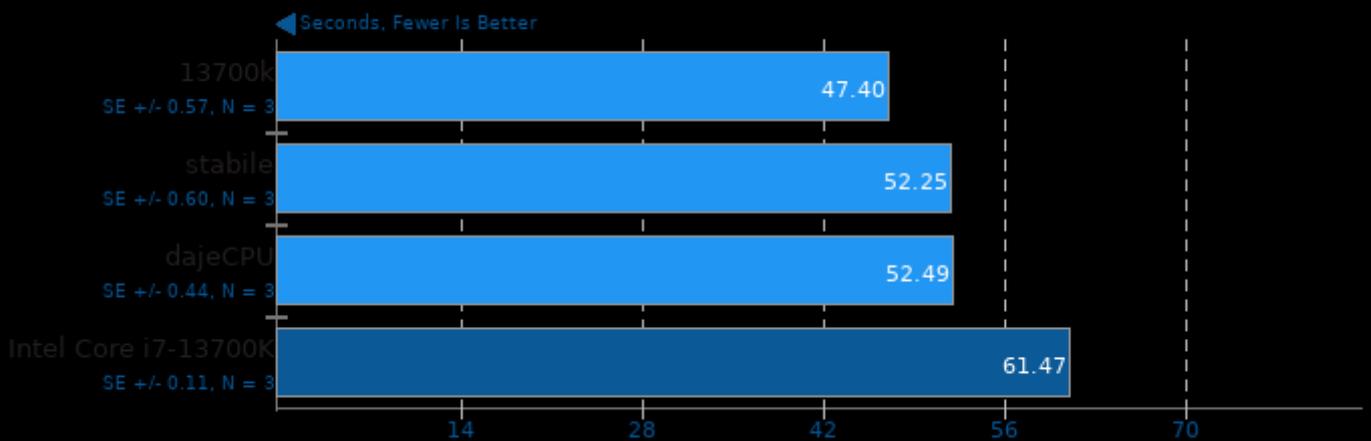
Timed GCC Compilation 11.2.0

Time To Compile



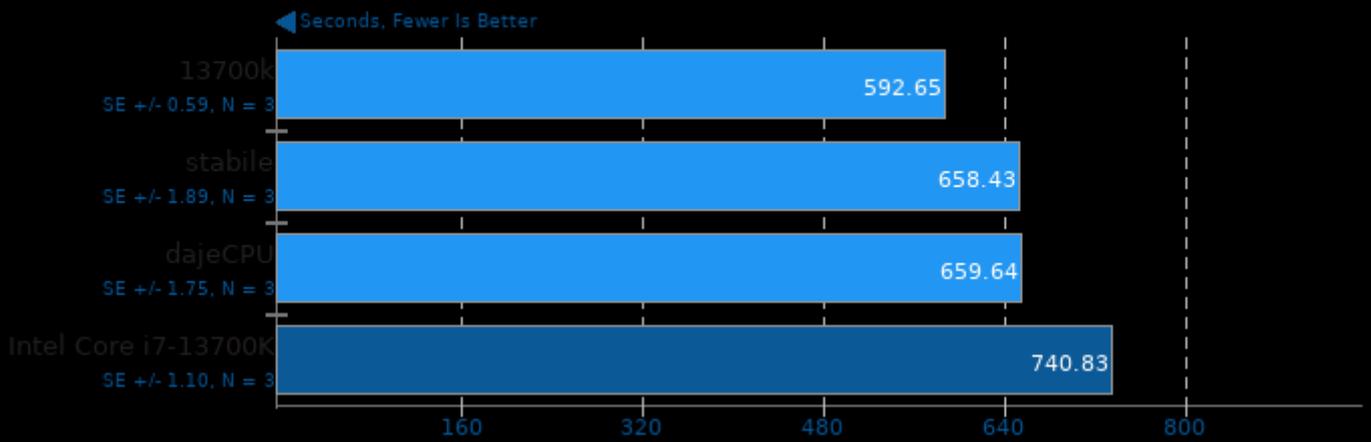
Timed Linux Kernel Compilation 6.1

Build: defconfig



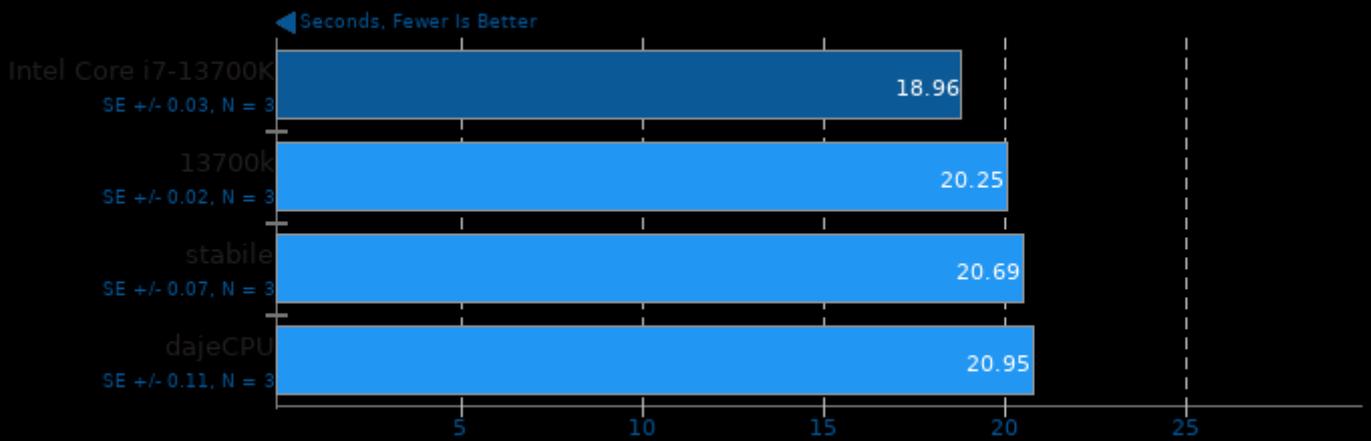
Timed Linux Kernel Compilation 6.1

Build: allmodconfig



POV-Ray 3.7.0.7

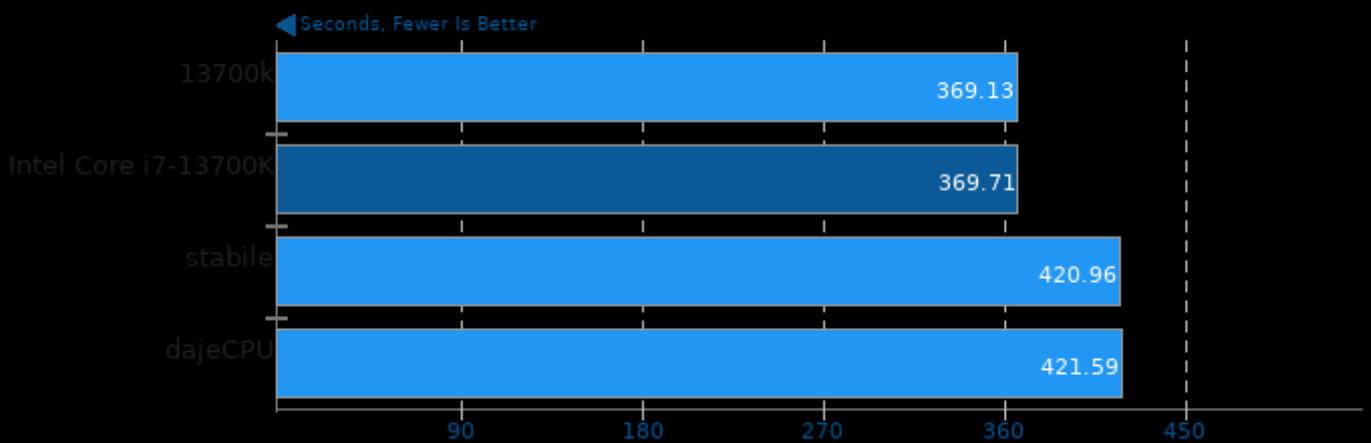
Trace Time



1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -fasm -fice -fxml -ftiff -fjpeg -fpng -lz -lrt -lm -lboost_thread -lboost_system

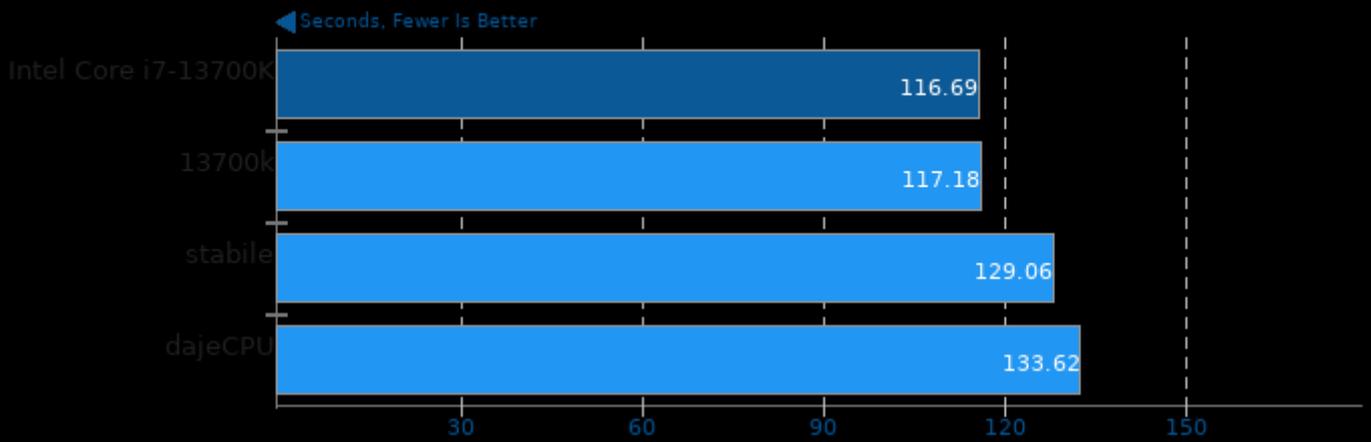
Radiance Benchmark 5.0

Test: Serial



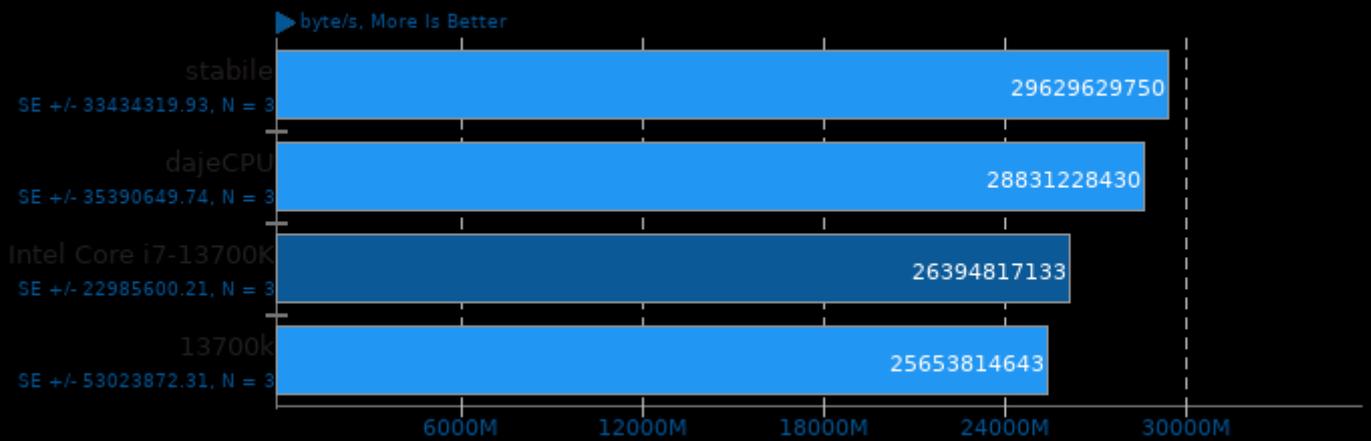
Radiance Benchmark 5.0

Test: SMP Parallel



OpenSSL 3.0

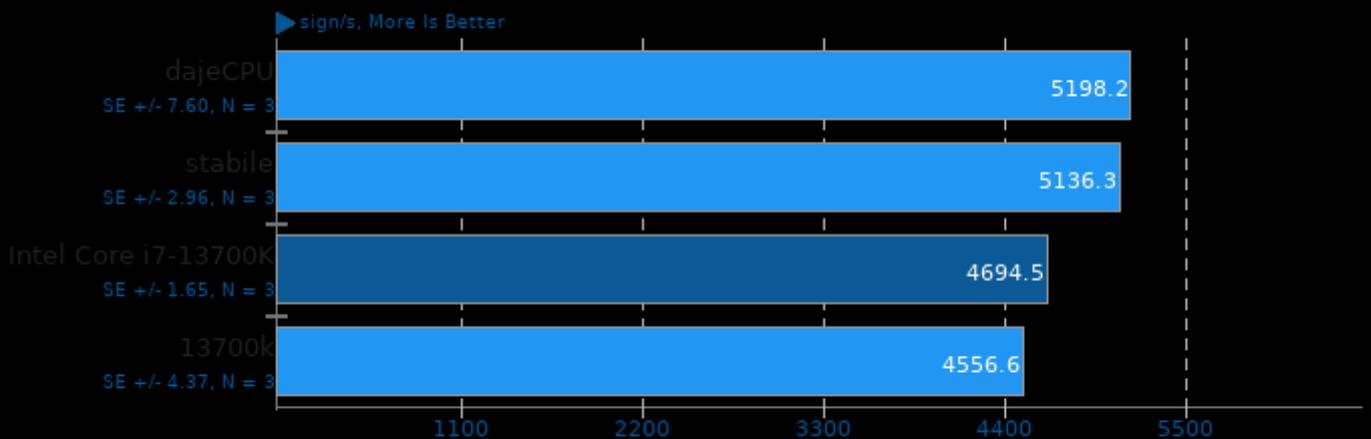
Algorithm: SHA256



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

OpenSSL 3.0

Algorithm: RSA4096

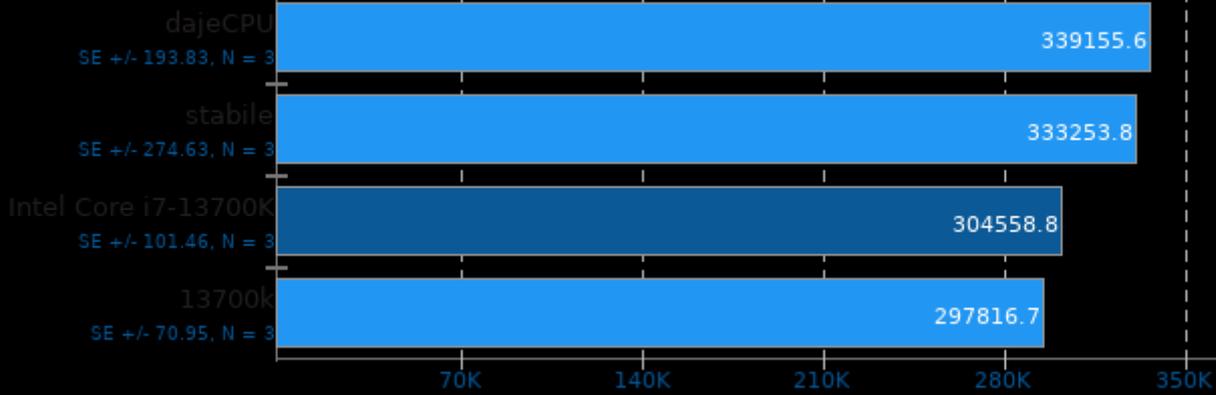


1. (C) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

OpenSSL 3.0

Algorithm: RSA4096

verify/s, More Is Better

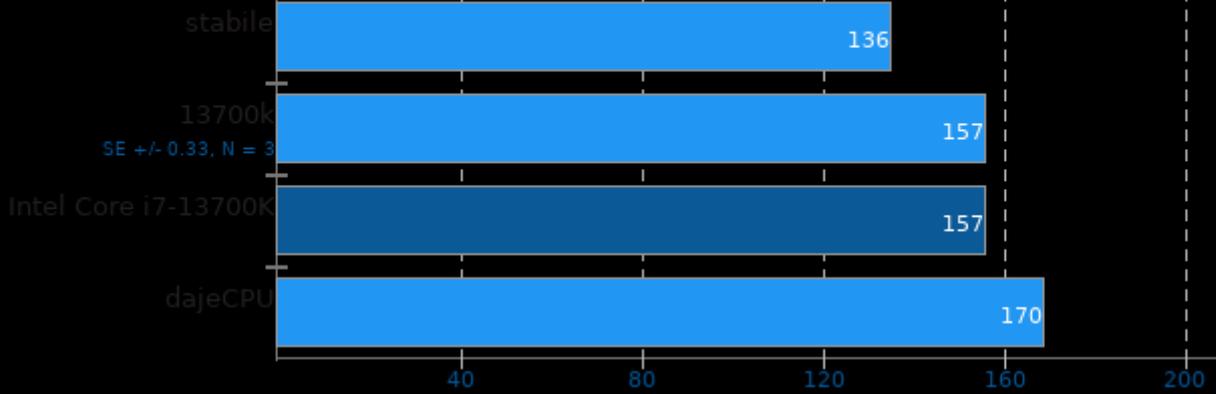


1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

ctx_clock

Context Switch Time

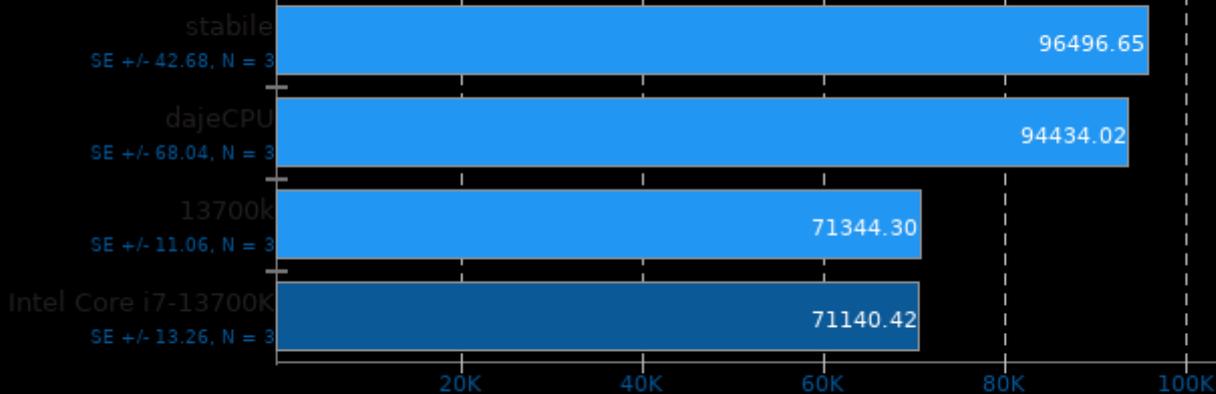
Clocks, Fewer Is Better



Sysbench 1.0.20

Test: CPU

Events Per Second, More Is Better



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 07:11.