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result

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG STRIX B550-F GAMING (2003 BIOS) and ASUS NVIDIA GeForce GTX 1080 Ti 11GB on Arch Linux via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 9 5950X 16-Core

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG STRIX B550-F GAMING (2003 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: 512GB ADATA SX8200PNP, Graphics: ASUS NVIDIA GeForce GTX 1080 Ti 11GB, Audio: NVIDIA GP102 HDMI Audio, Network: Intel I225-V

OS: Arch Linux, Kernel: 5.11.15-arch1-2 (x86_64), Display Server: X Server, Display Driver: NVIDIA, Compiler: GCC 10.2.0 + Clang 11.1.0 + CUDA 11.3, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdc++-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009

Java Notes: OpenJDK Runtime Environment (build 1.8.0_282-b08)

Python Notes: Python 3.9.3

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: 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 Full AMD retroline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbs: Not affected + tsx_async_abort: Not affected

AMD Ryzen 9 5950X 16-Core

Polyhedron Fortran Benchmarks - ac (sec)	5.25
Polyhedron Fortran Benchmarks - air (sec)	1.12
Polyhedron Fortran Benchmarks - mdbx (sec)	3.45
Polyhedron Fortran Benchmarks - doduc (sec)	5.37
Polyhedron Fortran Benchmarks - linpk (sec)	1.45
Polyhedron Fortran Benchmarks - tfft2 (sec)	12.21
Polyhedron Fortran Benchmarks - aermod (sec)	4.42
Polyhedron Fortran Benchmarks - rnflow (sec)	12.8
Polyhedron Fortran Benchmarks - induct2 (sec)	18.59
Polyhedron Fortran Benchmarks - protein (sec)	9.08
Polyhedron Fortran Benchmarks - capacita (sec)	9.42
Polyhedron Fortran Benchmarks - channel2 (sec)	28.89
Polyhedron Fortran Benchmarks - fatigue2 (sec)	39.17
Polyhedron Fortran Benchmarks - gas_dyn2 (sec)	19.31
Polyhedron Fortran Benchmarks - test_fpu2 (sec)	20.82
Polyhedron Fortran Benchmarks - mp_prop_design (sec)	45.11
Izbench - XZ 0 - Compression (MB/s)	55
Standard Deviation	2.1%
Izbench - XZ 0 - Decompression (MB/s)	174
Standard Deviation	2%
Izbench - Zstd 1 - Compression (MB/s)	673
Standard Deviation	0.7%
Izbench - Zstd 1 - Decompression (MB/s)	2258
Standard Deviation	0.3%
Izbench - Zstd 8 - Compression (MB/s)	124
Standard Deviation	1.2%
Izbench - Zstd 8 - Decompression (MB/s)	2470
Standard Deviation	0.5%
Izbench - Crush 0 - Compression (MB/s)	168
Standard Deviation	2.5%
Izbench - Crush 0 - Decompression (MB/s)	694
Standard Deviation	1.3%
Izbench - Brotli 0 - Compression (MB/s)	616
Standard Deviation	1.4%
Izbench - Brotli 0 - Decompression (MB/s)	791
Standard Deviation	0.9%
Izbench - Brotli 2 - Compression (MB/s)	268
Standard Deviation	1.8%
Izbench - Brotli 2 - Decompression (MB/s)	989
Standard Deviation	1.8%
Izbench - Libdeflate 1 - Compression (MB/s)	327

	Standard Deviation	0.9%
BLAKE2 (Cycles/Byte)	4.26	
	Standard Deviation	2.2%
GNU GMP GMPbench - Total Time (GMPbench Score)	6678	
Java SciMark - Composite (Mflops)	3912	
	Standard Deviation	0.5%
Java SciMark - Monte Carlo (Mflops)	1914	
	Standard Deviation	0.5%
Java SciMark - F.F.T (Mflops)	2458	
	Standard Deviation	4.7%
Java SciMark - S.M.M (Mflops)	3929	
	Standard Deviation	0.1%
Java SciMark - D.L.M.F (Mflops)	9243	
	Standard Deviation	1.5%
Java SciMark - J.S.O.R (Mflops)	2017	
	Standard Deviation	0.1%
Bork File Encrypter - F.E.T (sec)	6.058	
	Standard Deviation	2.1%
Fhourstones - C.C.4.S (Kpos / sec)	19844	
	Standard Deviation	0.7%
BYTE Unix Benchmark - Dhystone 2 (LPS)	55868495	
	Standard Deviation	0.5%
CacheBench - Read (MB/s)	3666	
	Standard Deviation	0.9%
CacheBench - Write (MB/s)	35864	
	Standard Deviation	1.5%
CacheBench - R.M.W (MB/s)	68647	
	Standard Deviation	1%
LuaJIT - Composite (Mflops)	2001	
	Standard Deviation	2.1%
LuaJIT - Monte Carlo (Mflops)	609.91	
	Standard Deviation	2.1%
LuaJIT - F.F.T (Mflops)	532.42	
	Standard Deviation	2.4%
LuaJIT - S.M.M (Mflops)	1754	
	Standard Deviation	2.2%
LuaJIT - D.L.M.F (Mflops)	4587	
	Standard Deviation	2.2%
LuaJIT - J.S.O.R (Mflops)	2524	
	Standard Deviation	1.7%
SciMark - Composite (Mflops)	863.34	
	Standard Deviation	1.5%
SciMark - Monte Carlo (Mflops)	176.88	
	Standard Deviation	8.8%
SciMark - F.F.T (Mflops)	491.75	
	Standard Deviation	1.2%
SciMark - S.M.M (Mflops)	816.71	
	Standard Deviation	1.3%
SciMark - D.L.M.F (Mflops)	1483	
	Standard Deviation	1.3%
SciMark - J.S.O.R (Mflops)	1348	
	Standard Deviation	1.3%
Botan - KASUMI (MiB/s)	109.399	

	Standard Deviation	1.2%
Botan - KASUMI - Decrypt (MiB/s)	105.521	
	Standard Deviation	1.3%
Botan - AES-256 (MiB/s)	7363	
	Standard Deviation	0.2%
Botan - AES-256 - Decrypt (MiB/s)	7377	
	Standard Deviation	0.4%
Botan - Twofish (MiB/s)	457.854	
	Standard Deviation	1.5%
Botan - Twofish - Decrypt (MiB/s)	449.299	
	Standard Deviation	1.4%
Botan - Blowfish (MiB/s)	560.330	
	Standard Deviation	0.7%
Botan - Blowfish - Decrypt (MiB/s)	557.156	
	Standard Deviation	0.7%
Botan - CAST-256 (MiB/s)	172.210	
	Standard Deviation	1.1%
Botan - CAST-256 - Decrypt (MiB/s)	172.163	
	Standard Deviation	1.1%
Botan - ChaCha20Poly1305 (MiB/s)	824.700	
	Standard Deviation	2.1%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	813.330	
	Standard Deviation	2.2%
Node.js Express HTTP Load Test (Req/s/sec)	9373	
	Standard Deviation	1.1%
Swet - Average (Operations/sec)	1119340989	
	Standard Deviation	2.1%
Numpy Benchmark (Score)	577.00	
	Standard Deviation	0.1%
Gzip Compression - L.S.T.A.T.t.g (sec)	28.752	
	Standard Deviation	2.5%
ddraw - R.T.P.I.C (sec)	35.530	
	Standard Deviation	1%
DeepSpeech - CPU (sec)	53.60930	
	Standard Deviation	2.4%
FLAC Audio Encoding - WAV To FLAC (sec)	6.308	
	Standard Deviation	2.4%
LAME MP3 Encoding - WAV To MP3 (sec)	5.720	
	Standard Deviation	2.7%
Ogg Audio Encoding - WAV To Ogg (sec)	15.136	
	Standard Deviation	1.1%
eSpeak-NG Speech Engine - T.T.S.S (sec)	20.669	
	Standard Deviation	2.1%
Minion - Graceful (sec)	34.514384	
	Standard Deviation	2.1%
Minion - Solitaire (sec)	53.158922	
	Standard Deviation	1.6%
Minion - Quasigroup (sec)	82.465810	
	Standard Deviation	0.4%
Perl Benchmarks - Pod2html (sec)	0.08248020	
	Standard Deviation	5.2%
Perl Benchmarks - Interpreter (sec)	0.00069872	
	Standard Deviation	1.6%

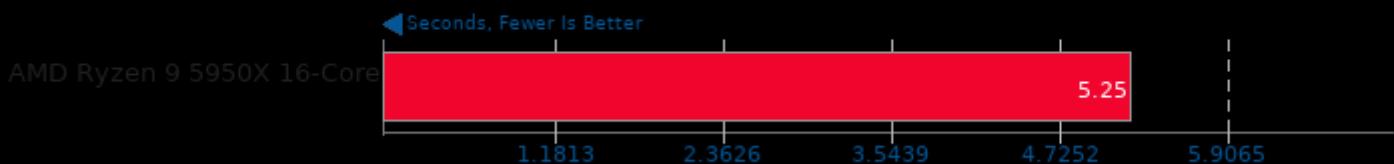
Radiance Benchmark - Serial (sec)	432.43
Sudokut - Total Time (sec)	8.504
Standard Deviation	0.3%
System Libxml2 Parsing - 1 MB (ms)	269
Standard Deviation	0.6%
System Libxml2 Parsing - 2 MB (ms)	915
Standard Deviation	1.8%
System Libxml2 Parsing - 3 MB (ms)	1359
Standard Deviation	0.8%
System Libxml2 Parsing - 5 KB (ms)	2
Standard Deviation	0%
System Libxml2 Parsing - 50 KB (ms)	12
Standard Deviation	0%
System Libxml2 Parsing - 100 KB (ms)	48
Standard Deviation	1.2%
System Libxml2 Parsing - 112 MB (ms)	40887
Standard Deviation	2.4%
System Libxml2 Parsing - 150 KB (ms)	38
Standard Deviation	2.4%
System Libxml2 Parsing - 200 KB (ms)	58
Standard Deviation	2%
System Libxml2 Parsing - 250 KB (ms)	68
Standard Deviation	0.9%
System Libxml2 Parsing - 300 KB (ms)	87
Standard Deviation	2%
System Libxml2 Parsing - 350 KB (ms)	93
Standard Deviation	3.2%
System Libxml2 Parsing - 400 KB (ms)	174
Standard Deviation	2.4%
System Libxml2 Parsing - 450 KB (ms)	126
Standard Deviation	0.8%
System Libxml2 Parsing - 500 KB (ms)	213
Standard Deviation	1.7%
System Libxml2 Parsing - 550 KB (ms)	153
Standard Deviation	1.6%
System Libxml2 Parsing - 600 KB (ms)	264
Standard Deviation	1.6%
System Libxml2 Parsing - 650 KB (ms)	183
Standard Deviation	1.4%
System Libxml2 Parsing - 700 KB (ms)	190
Standard Deviation	1.3%
System Libxml2 Parsing - 750 KB (ms)	204
Standard Deviation	1.8%
System Libxml2 Parsing - 800 KB (ms)	211
Standard Deviation	0.5%
System Libxml2 Parsing - 850 KB (ms)	377
Standard Deviation	1.2%
System Libxml2 Parsing - 900 KB (ms)	259
Standard Deviation	1.5%
System Libxml2 Parsing - 950 KB (ms)	268
Standard Deviation	1.4%
glibc bench - cos (nanoseconds)	35.9858
Standard Deviation	1.3%

glibc bench - exp (nanoseconds) 4.91087
Standard Deviation 2.5%
glibc bench - ffs (nanoseconds) 2.23677
Standard Deviation 0.3%
glibc bench - sin (nanoseconds) 35.6174
Standard Deviation 0.4%
glibc bench - log2 (nanoseconds) 4.54794
Standard Deviation 0.3%
glibc bench - modf (nanoseconds) 2.66618
Standard Deviation 0.3%
glibc bench - sinh (nanoseconds) 6.89948
Standard Deviation 1.4%
glibc bench - sqrt (nanoseconds) 2.54734
Standard Deviation 2.8%
glibc bench - tanh (nanoseconds) 8.32450
Standard Deviation 2.2%
glibc bench - asinh (nanoseconds) 6.38458
Standard Deviation 0.1%
glibc bench - atanh (nanoseconds) 7.99975
Standard Deviation 2.4%
glibc bench - ffsl (nanoseconds) 2.24804
Standard Deviation 0.3%
glibc bench - sincos (nanoseconds) 9.73885
Standard Deviation 2%
glibc bench - pthread_once (nanoseconds) 2.10103
Standard Deviation 0.7%
Multichase Pointer Chaser - 4.A.6.B.S (ns) 8.239
Standard Deviation 1.4%
Multichase Pointer Chaser - 1.A.2.B.S (ns) 75.898
Standard Deviation 3.5%
Multichase Pointer Chaser - 2.A.2.B.S (ns) 52.834
Standard Deviation 6.4%
Multichase Pointer Chaser - 1.A.2.B.S.2.T (ns) 74.419
Standard Deviation 3.2%
Multichase Pointer Chaser - 1.A.2.B.S.4.T (ns) 74.900
Standard Deviation 3.1%
libjpeg-turbo tjbench - D.T (Megapixels/sec) 275.785240
Standard Deviation 2.1%
CppPerformanceBenchmarks - Atol (sec) 36.794
Standard Deviation 2.9%
CppPerformanceBenchmarks - Ctype (sec) 36.307
Standard Deviation 1.7%
CppPerformanceBenchmarks - Math Library (sec) 218.439
Standard Deviation 0.6%
CppPerformanceBenchmarks - Rand Numbers (sec) 647.990
Standard Deviation 2%
CppPerformanceBenchmarks - Stepanov Vector (sec) 44.385
Standard Deviation 1.1%
CppPerformanceBenchmarks - Function Objects (sec) 11.638
Standard Deviation 0.5%
CppPerformanceBenchmarks - S.A (sec) 18.605
Standard Deviation 1.7%
BenchmarkMutex - S.M.L.S (ns) 16.3

	Standard Deviation	1.1%
BenchmarkMutex - M.L.U.s (ns)	19.0	
	Standard Deviation	2.3%
BenchmarkMutex - M.L.U.s.m (ns)	12.6	
	Standard Deviation	0.9%
BenchmarkMutex - M.L.U.s.m (ns)	14.6	
	Standard Deviation	1.2%
BenchmarkMutex - S.R.A.A (ns)	8.88	
	Standard Deviation	1.4%
BenchmarkMutex - M.L.U.s (ns)	21.8	
	Standard Deviation	0.5%
BenchmarkMutex - M.L.U.p (ns)	8.84	
	Standard Deviation	2.7%
BenchmarkMutex - M.L.U.t (ns)	8.18	
	Standard Deviation	2%
Redis - LPOP (Req/sec)	4030228	
	Standard Deviation	2.1%
Redis - SADD (Req/sec)	2970422	
	Standard Deviation	3.9%
Redis - LPUSH (Req/sec)	2245326	
	Standard Deviation	4.3%
Redis - GET (Req/sec)	3668741	
	Standard Deviation	4.8%
Redis - SET (Req/sec)	2658059	
	Standard Deviation	5%
Optcarrot - O.B (FPS)	167.15	
	Standard Deviation	2.9%
PyBench - T.F.A.T.T (Milliseconds)	738	
	Standard Deviation	0.9%
Hierarchical INTegration - FLOAT (QUIPs)	535375875	
	Standard Deviation	2.3%
NGINX Benchmark - S.W.P.S (Req/sec)	50857	
	Standard Deviation	0.1%
PHPBench - P.B.S (Score)	922058	
	Standard Deviation	2.6%
Git - T.T.C.C.G.C (sec)	37.067	
	Standard Deviation	2%
GnuPG - 2.7.S.F.E (sec)	39.854	
	Standard Deviation	2.5%

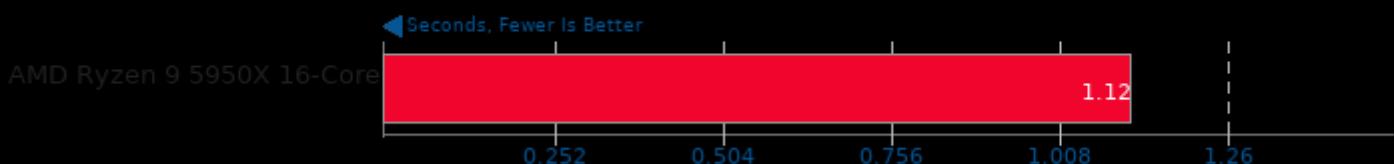
Polyhedron Fortran Benchmarks

Benchmark: ac



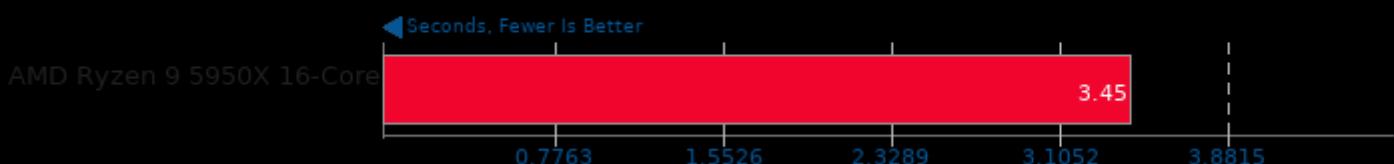
Polyhedron Fortran Benchmarks

Benchmark: air



Polyhedron Fortran Benchmarks

Benchmark: mdbx



Polyhedron Fortran Benchmarks

Benchmark: doduc



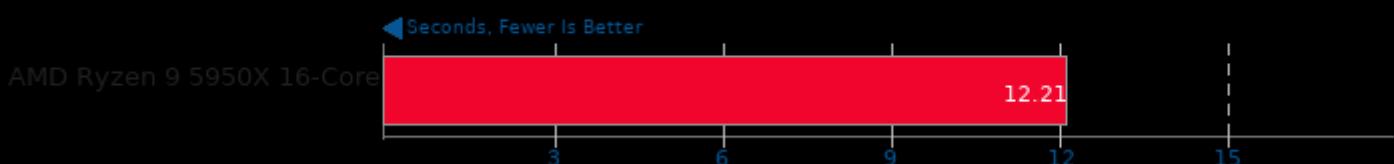
Polyhedron Fortran Benchmarks

Benchmark: linpk



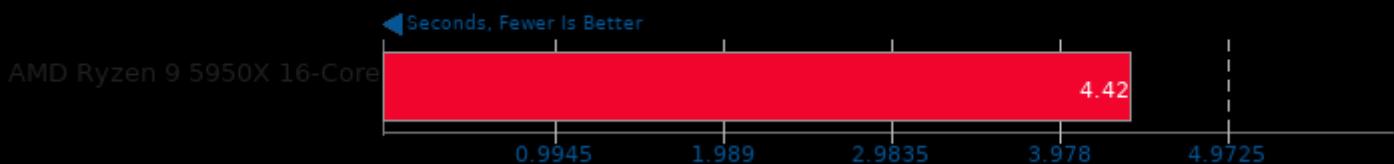
Polyhedron Fortran Benchmarks

Benchmark: tfft2



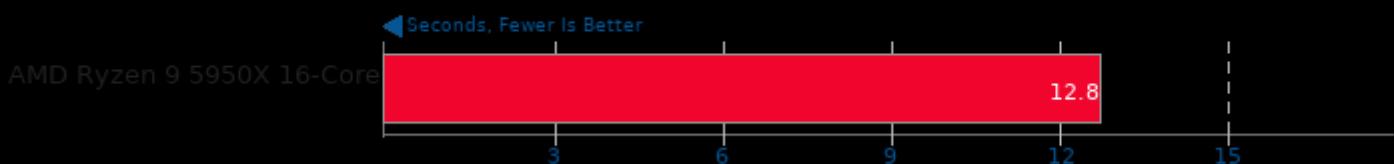
Polyhedron Fortran Benchmarks

Benchmark: aermod



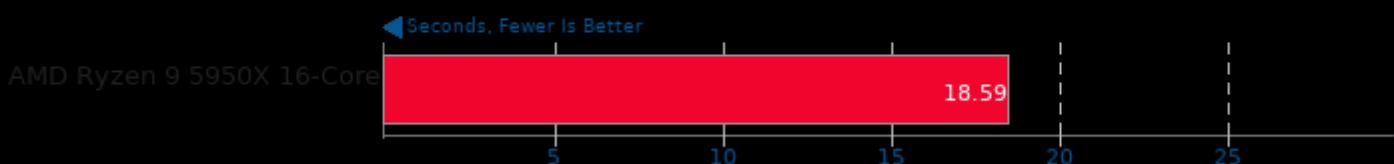
Polyhedron Fortran Benchmarks

Benchmark: rmflow



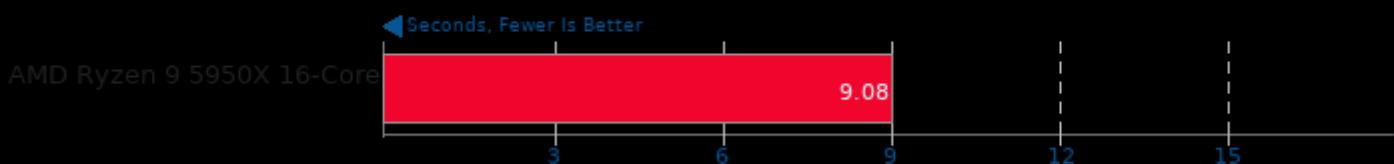
Polyhedron Fortran Benchmarks

Benchmark: induct2



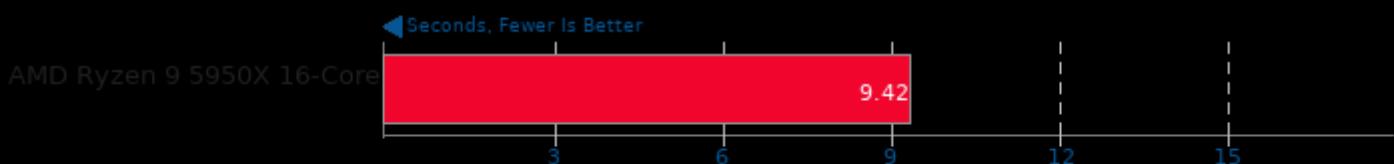
Polyhedron Fortran Benchmarks

Benchmark: protein



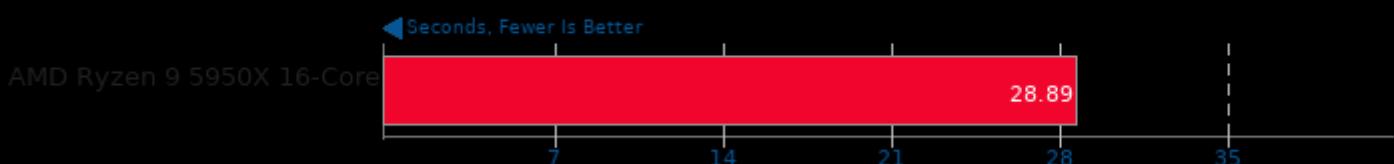
Polyhedron Fortran Benchmarks

Benchmark: capacita



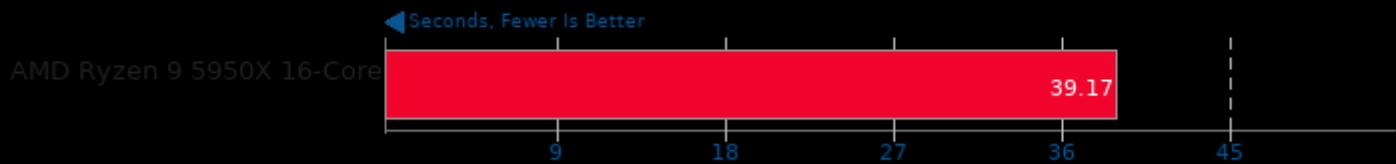
Polyhedron Fortran Benchmarks

Benchmark: channel2



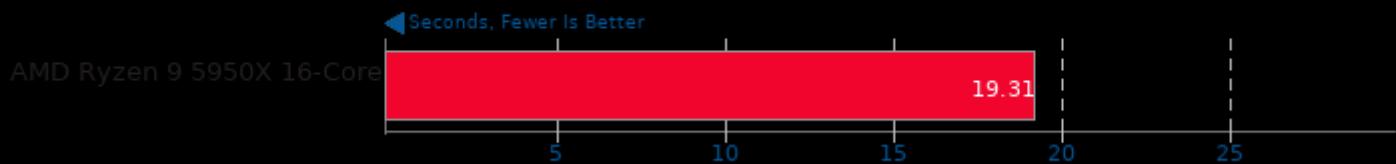
Polyhedron Fortran Benchmarks

Benchmark: fatigue2



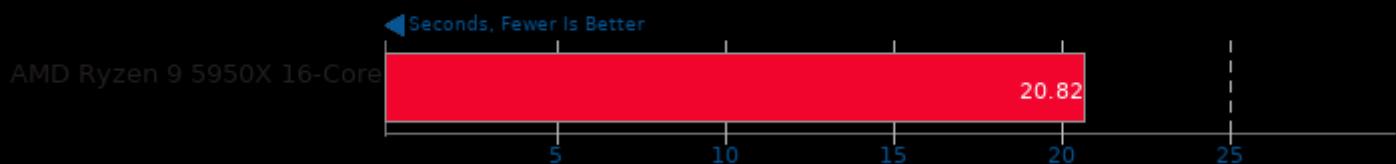
Polyhedron Fortran Benchmarks

Benchmark: gas_dyn2



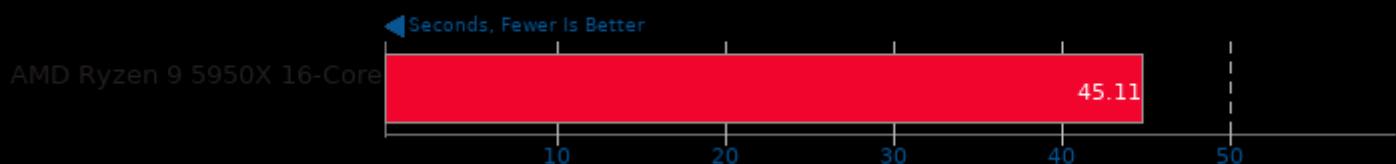
Polyhedron Fortran Benchmarks

Benchmark: test_fpu2



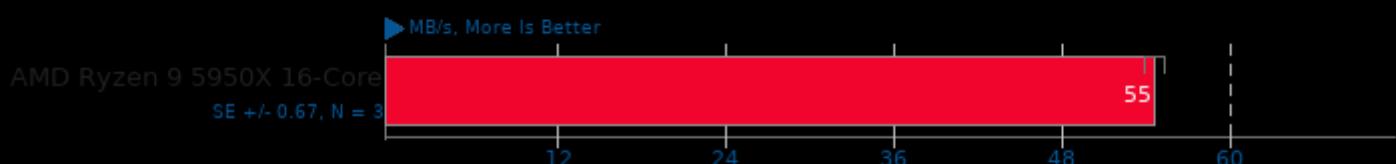
Polyhedron Fortran Benchmarks

Benchmark: mp_prop_design



Izbench 1.8

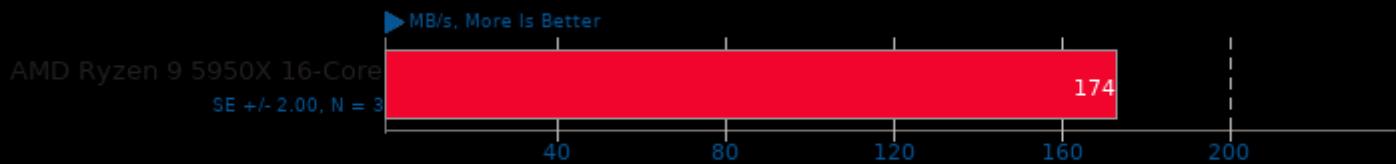
Test: XZ 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

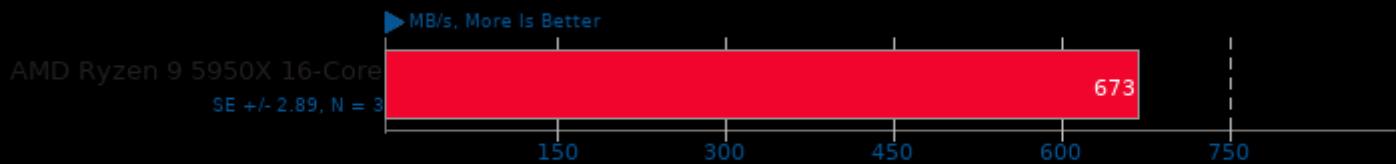
Test: XZ 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

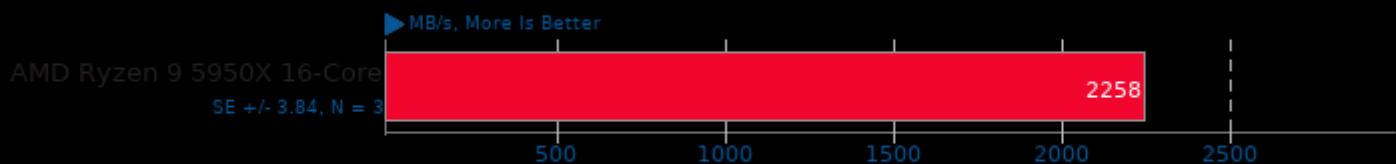
Test: Zstd 1 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

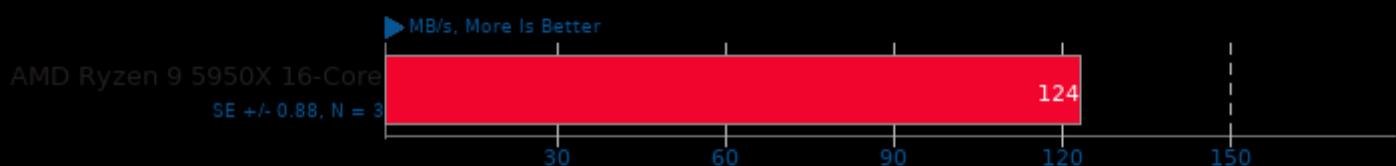
Test: Zstd 1 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

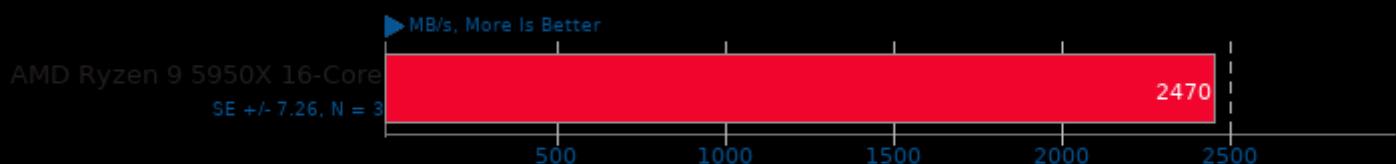
Test: Zstd 8 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

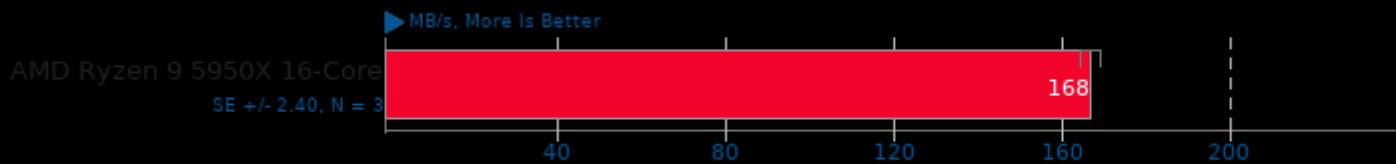
Test: Zstd 8 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

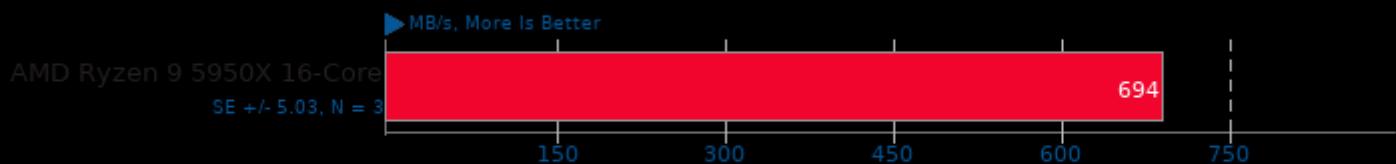
Test: Crush 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

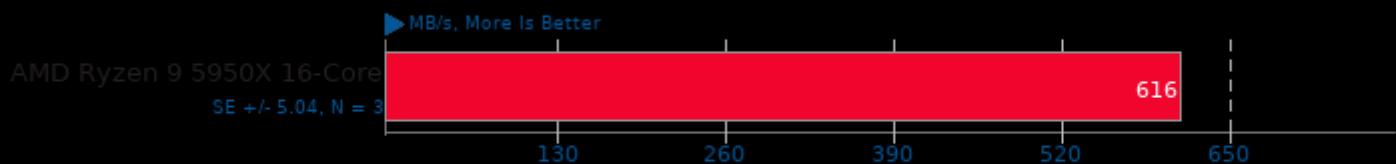
Test: Crush 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

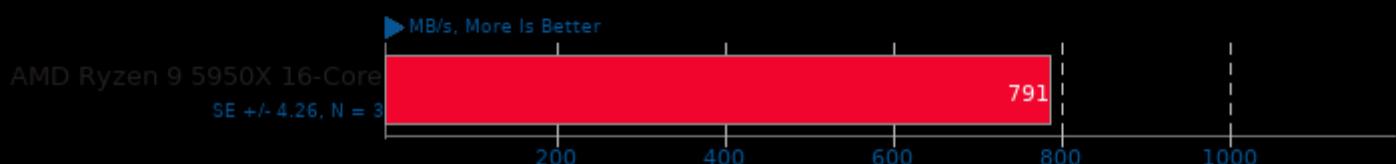
Test: Brotli 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

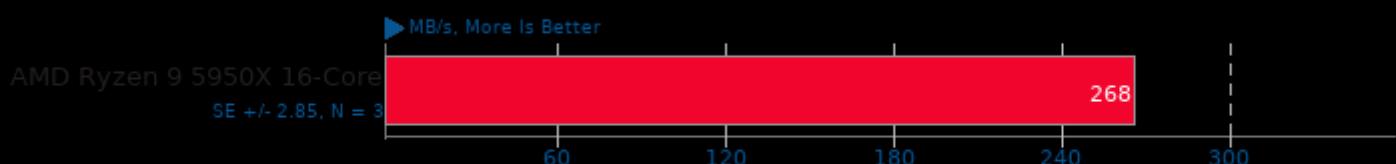
Test: Brotli 0 - Process: Decompression



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Izbench 1.8

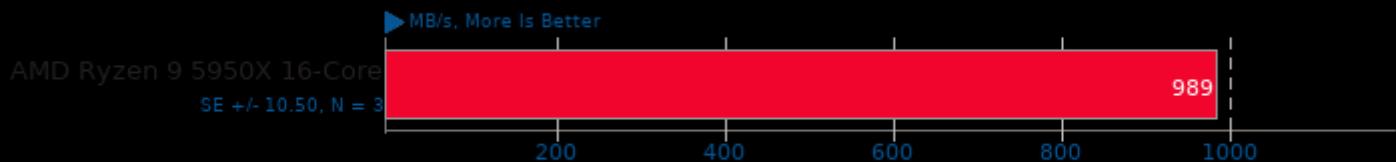
Test: Brotli 2 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

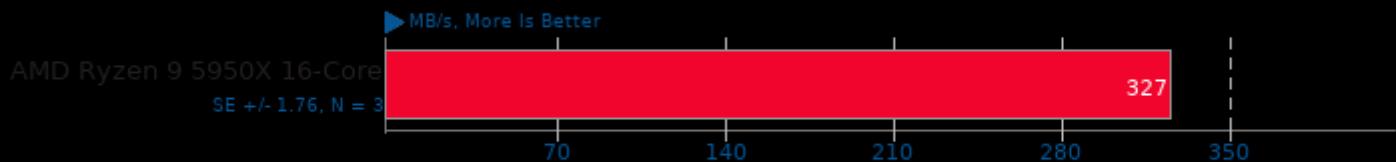
Test: Brotli 2 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

Test: Libdeflate 1 - Process: Compression



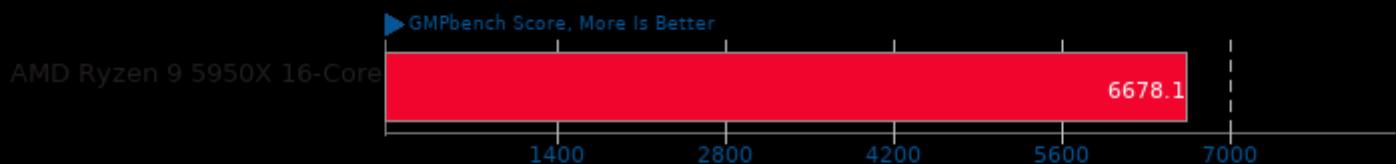
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

BLAKE2 20170307



GNU GMP GMPbench 6.2.1

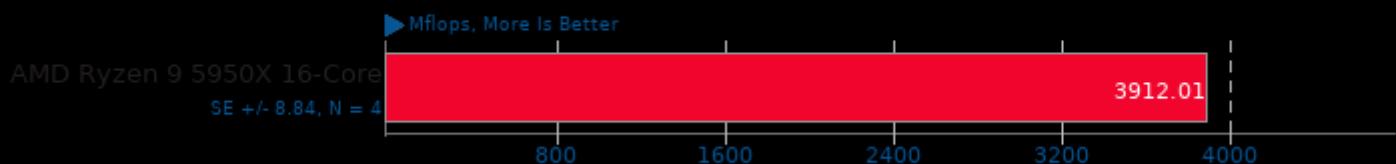
Total Time



1. (CC) gcc options: -O3 -fomit-frame-pointer -lm

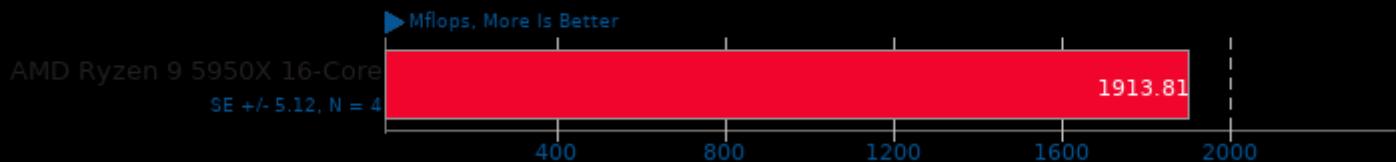
Java SciMark 2.0

Computational Test: Composite



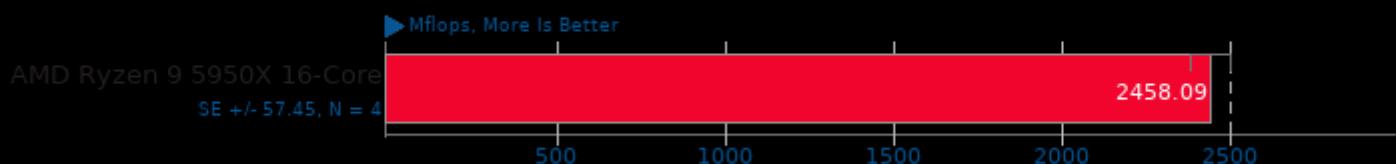
Java SciMark 2.0

Computational Test: Monte Carlo



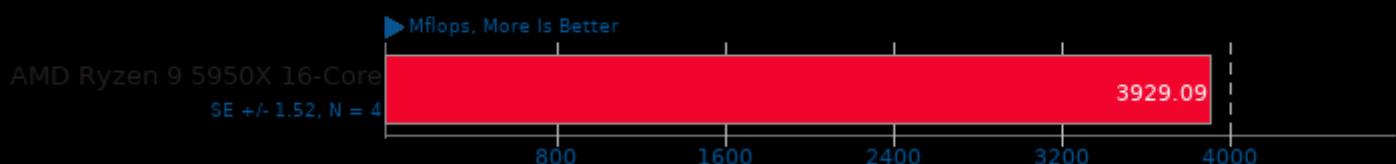
Java SciMark 2.0

Computational Test: Fast Fourier Transform



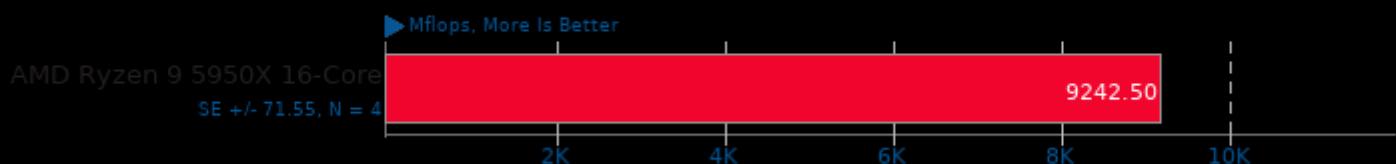
Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



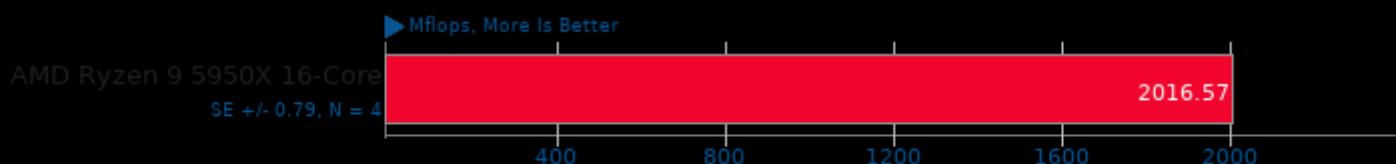
Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



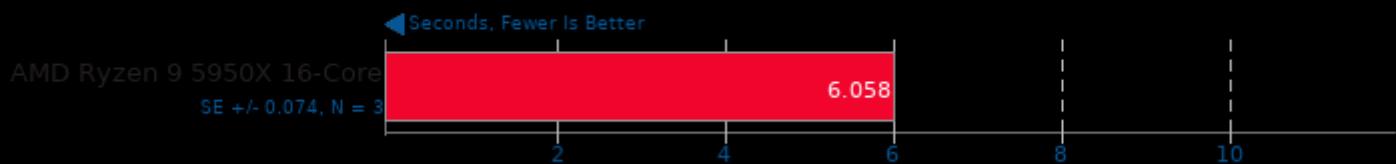
Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



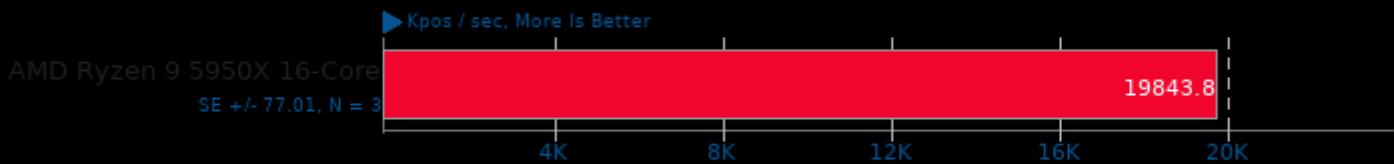
Bork File Encrypter 1.4

File Encryption Time



Fhourstones 3.1

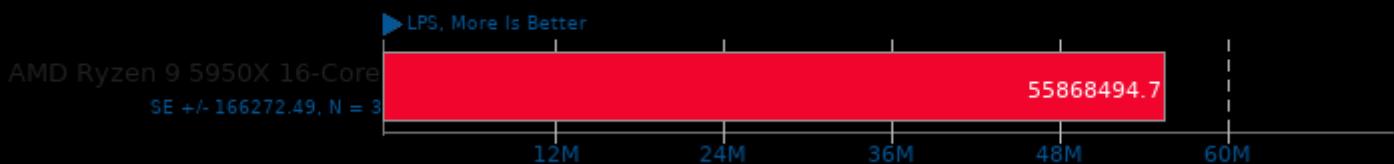
Complex Connect-4 Solving



1. (CC) gcc options: -O3

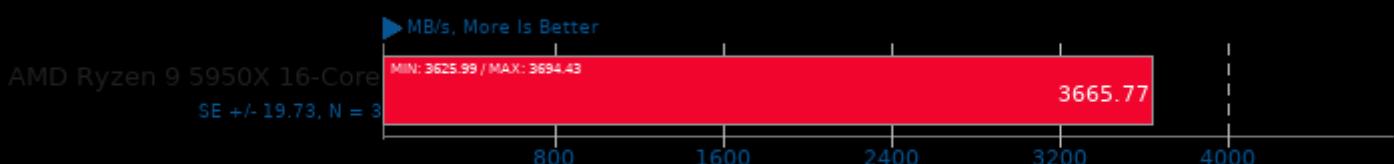
BYTE Unix Benchmark 3.6

Computational Test: Dhrystone 2



CacheBench

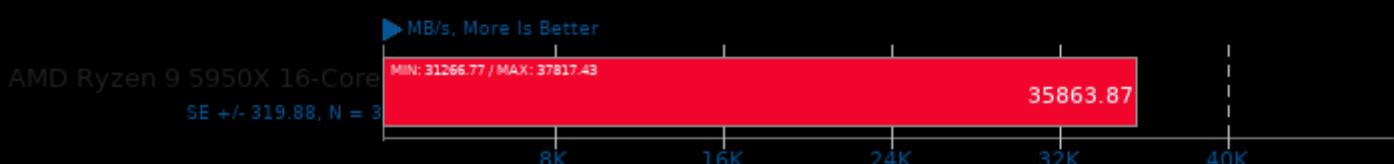
Test: Read



1. (CC) gcc options: -lrt

CacheBench

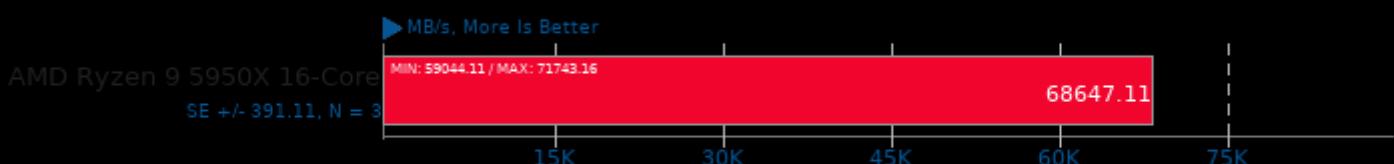
Test: Write



1. (CC) gcc options: -lrt

CacheBench

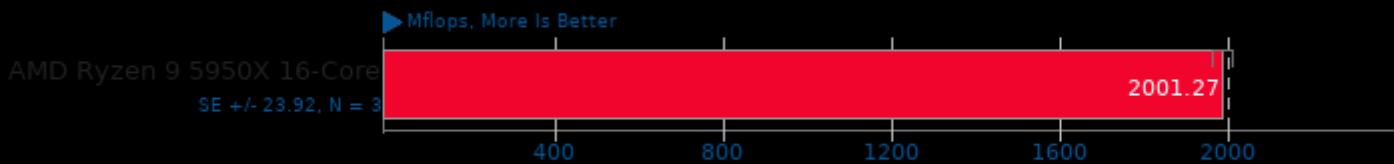
Test: Read / Modify / Write



1. (CC) gcc options: -lrt

LuaJIT 2.1-git

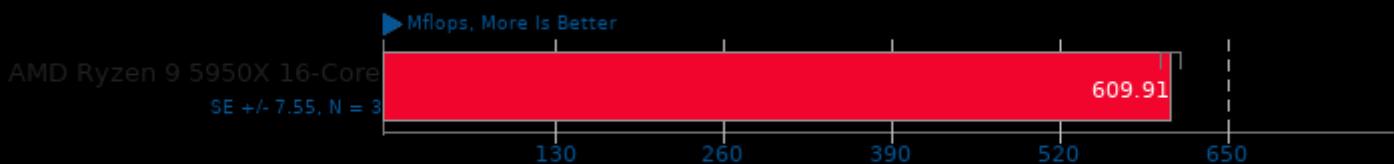
Test: Composite



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

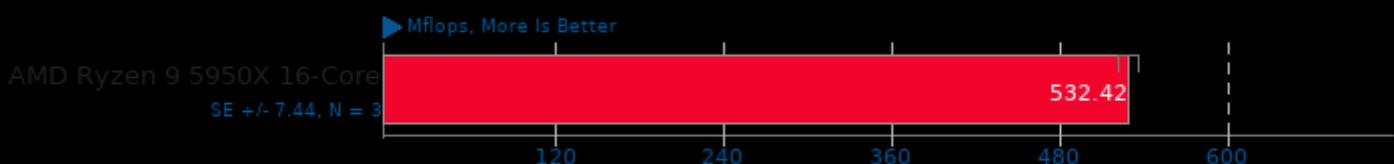
Test: Monte Carlo



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

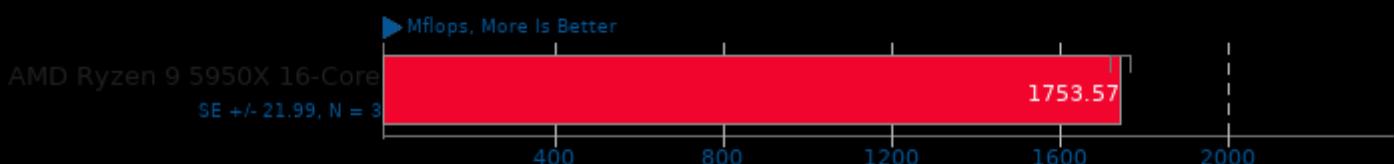
Test: Fast Fourier Transform



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

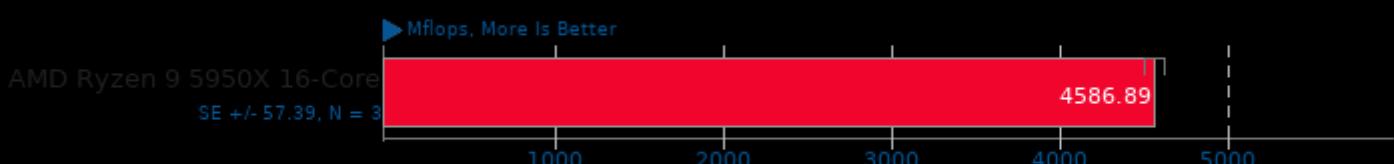
Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

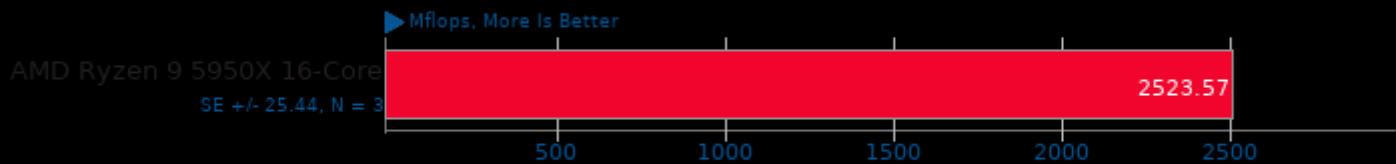
Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

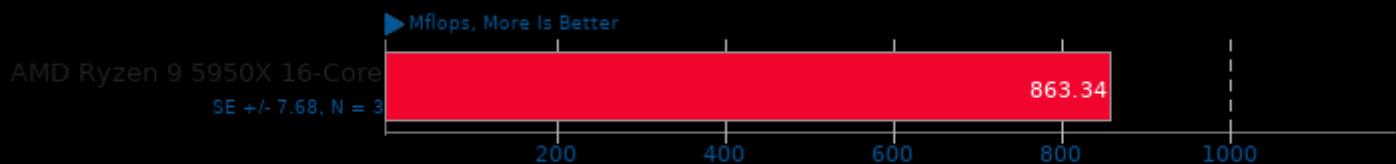
Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

SciMark 2.0

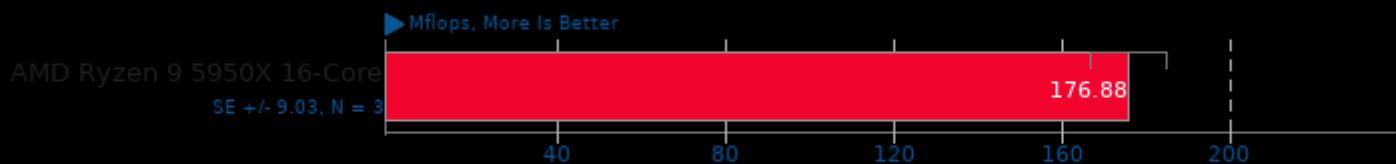
Computational Test: Composite



1. (CC) gcc options: -lm

SciMark 2.0

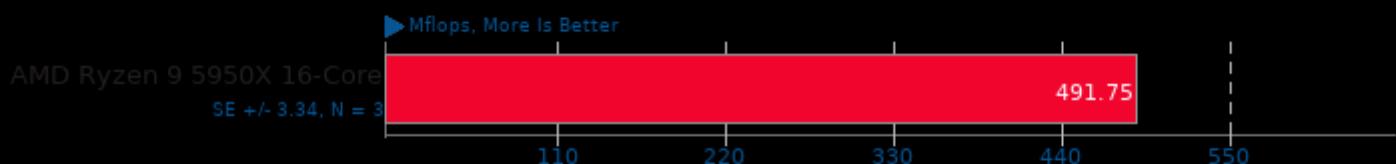
Computational Test: Monte Carlo



1. (CC) gcc options: -lm

SciMark 2.0

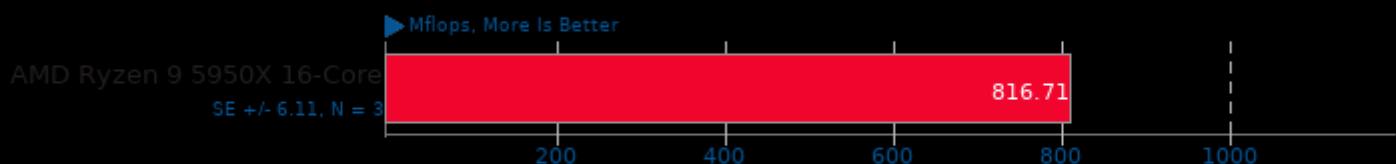
Computational Test: Fast Fourier Transform



1. (CC) gcc options: -lm

SciMark 2.0

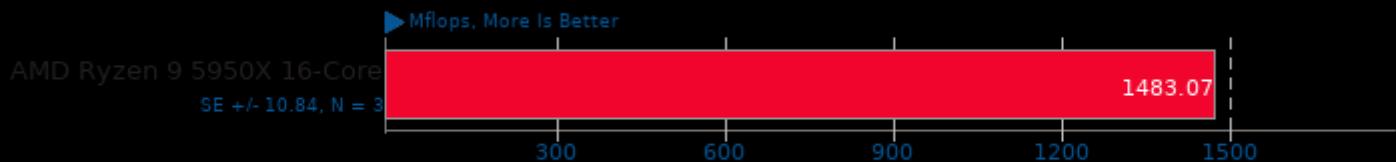
Computational Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm

SciMark 2.0

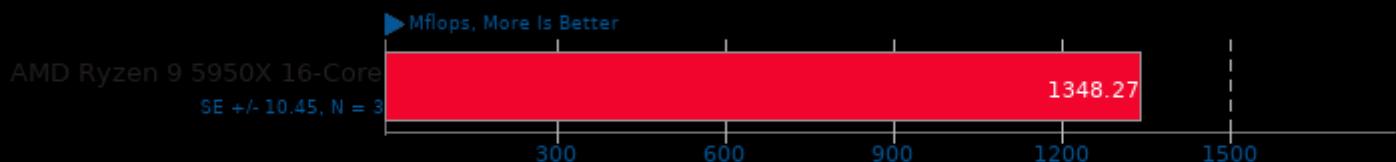
Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

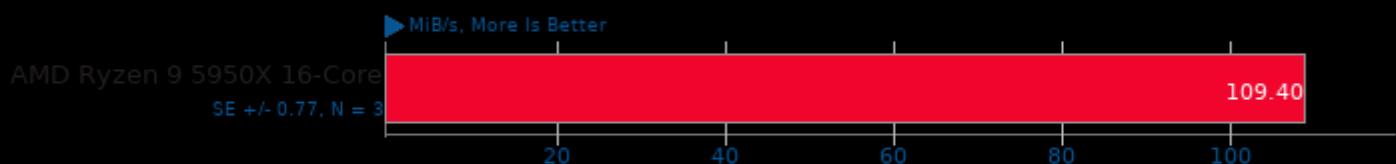
Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

Botan 2.17.3

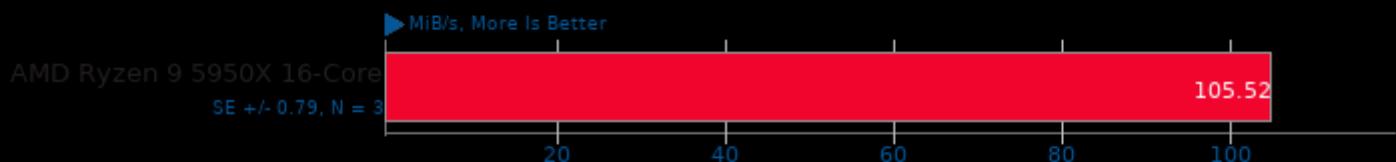
Test: KASUMI



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

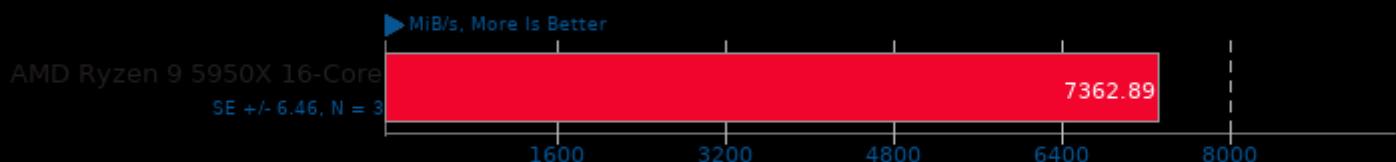
Test: KASUMI - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

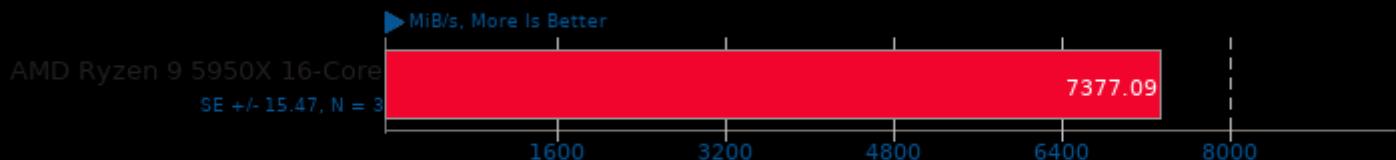
Test: AES-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

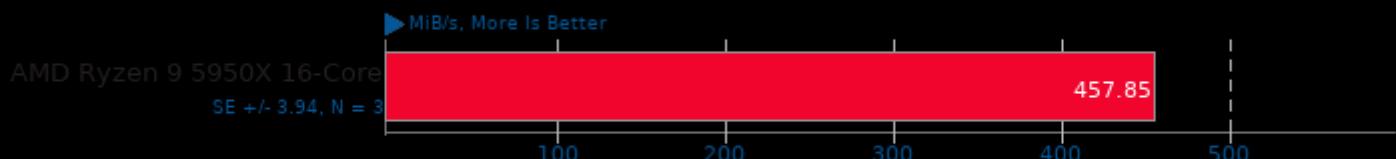
Test: AES-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

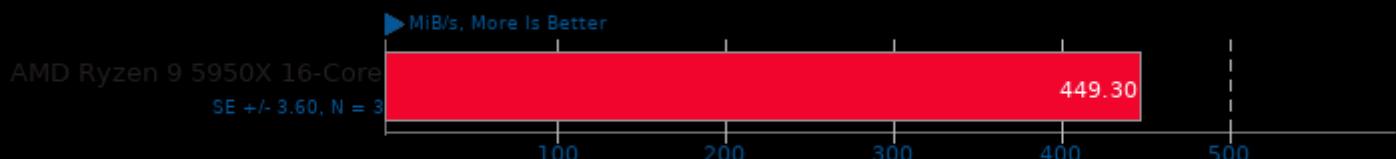
Test: Twofish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

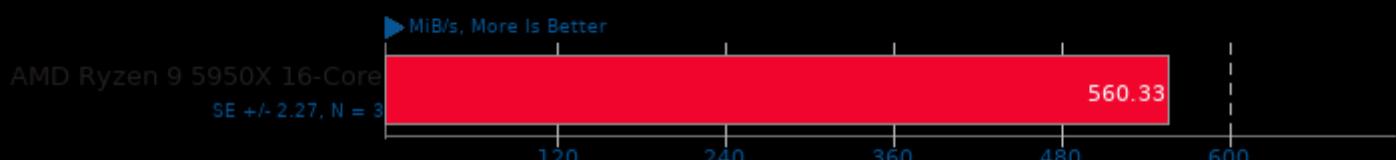
Test: Twofish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

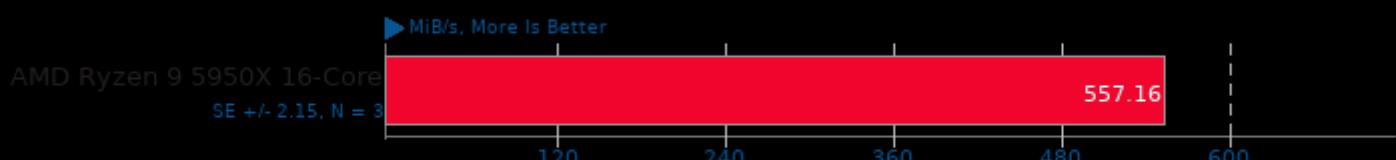
Test: Blowfish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

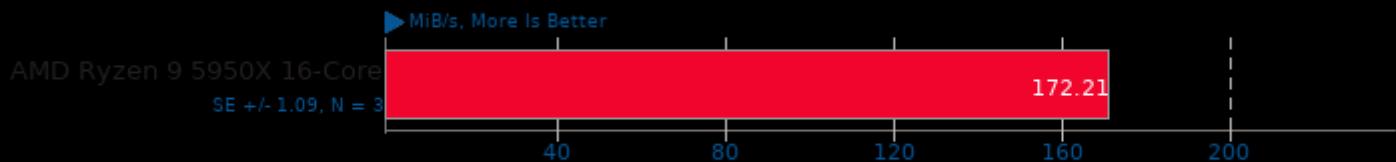
Test: Blowfish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

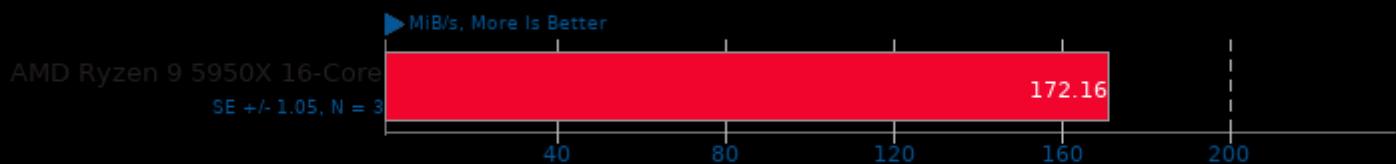
Test: CAST-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

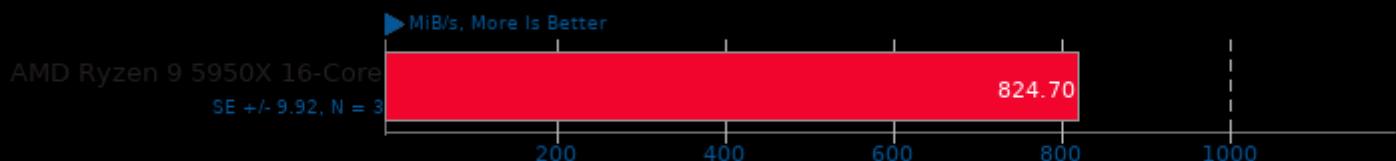
Test: CAST-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

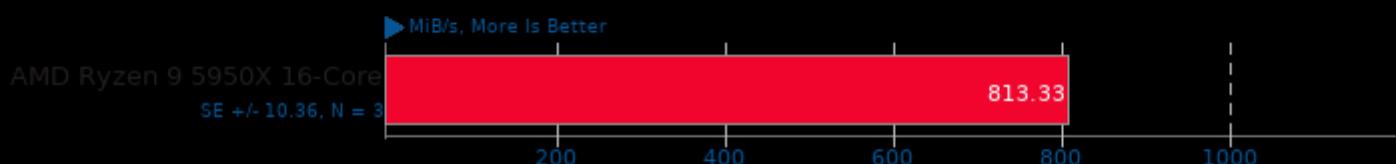
Test: ChaCha20Poly1305



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

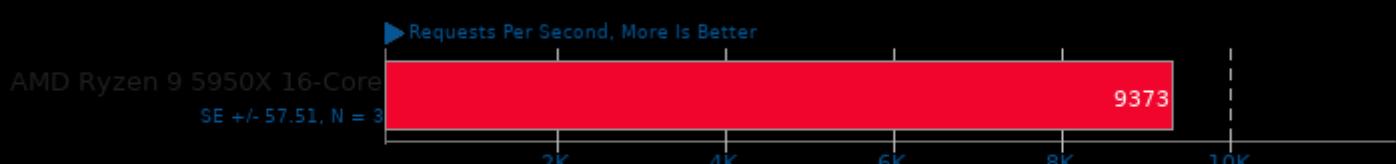
Botan 2.17.3

Test: ChaCha20Poly1305 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Node.js Express HTTP Load Test



1. Nodejs

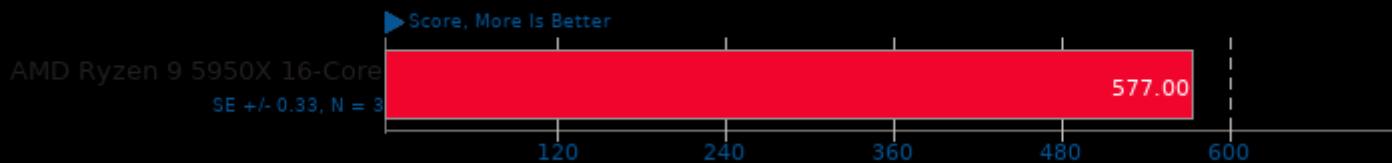
Swet 1.5.16

Average



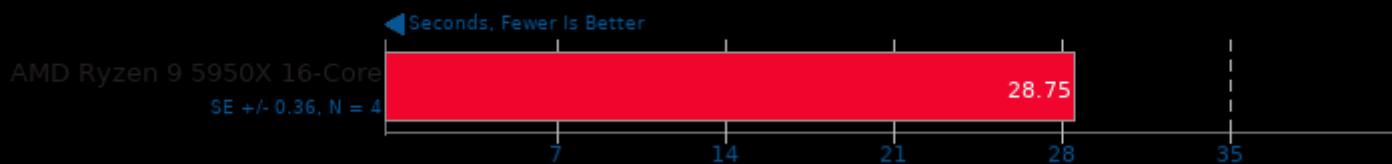
1. (CC) gcc options: -lm -lpthread -lcurses -lrt

Numpy Benchmark



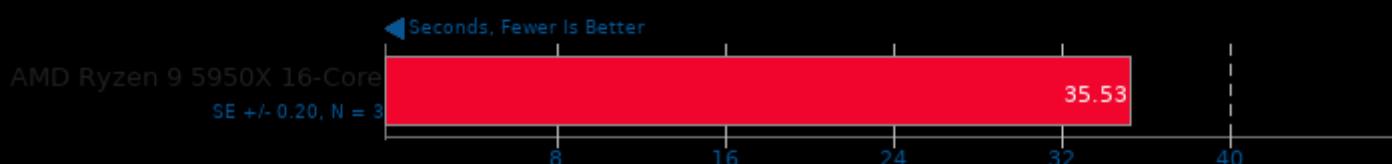
Gzip Compression

Linux Source Tree Archiving To .tar.gz



dcraw

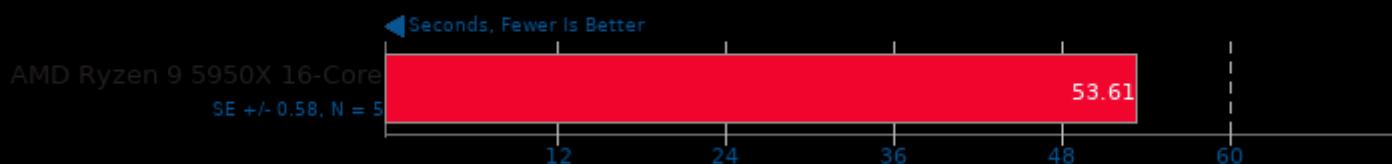
RAW To PPM Image Conversion



1. (CC) gcc options: -lm

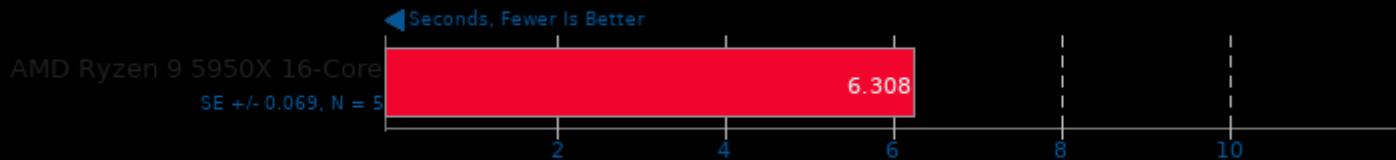
DeepSpeech 0.6

Acceleration: CPU



FLAC Audio Encoding 1.3.2

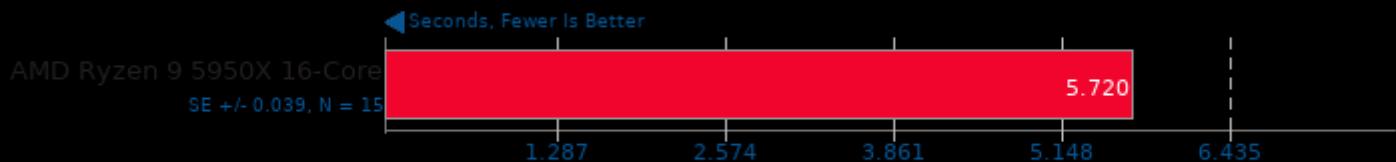
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -fno-rtti

LAME MP3 Encoding 3.100

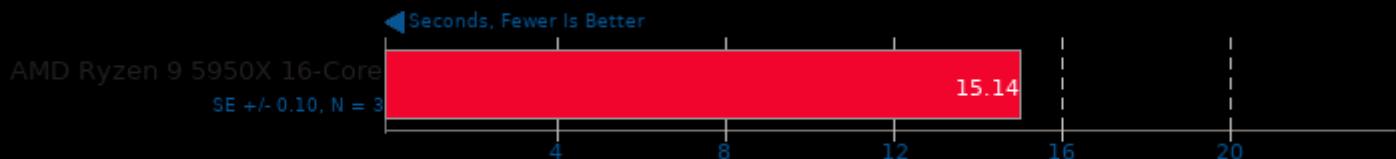
WAV To MP3



1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -fincrusts -fno-strict-aliasing -fno-rtti

Ogg Audio Encoding 1.3.4

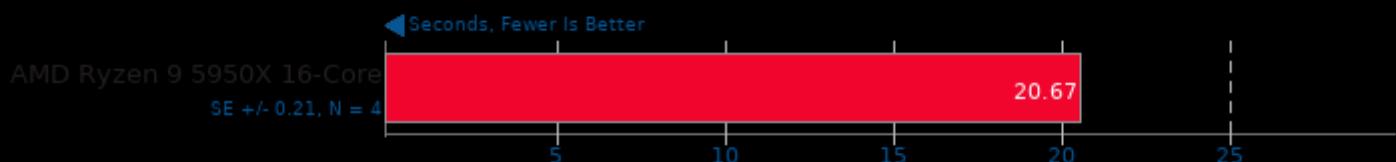
WAV To Ogg



1. (CC) gcc options: -O2 -ffast-math -fsigned-char

eSpeak-NG Speech Engine 20200907

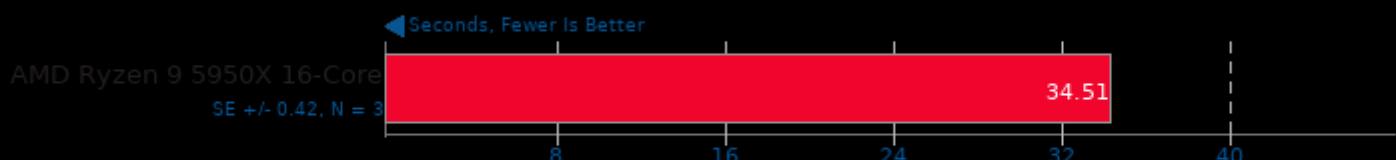
Text-To-Speech Synthesis



1. (CC) gcc options: -O2 -std=c99 -lpthread -fno-rtti

Minion 1.8

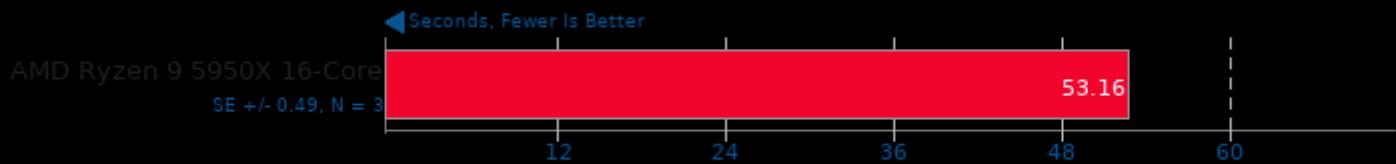
Benchmark: Graceful



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

Minion 1.8

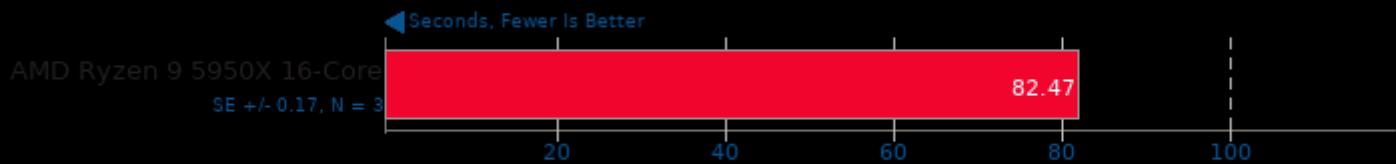
Benchmark: Solitaire



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

Minion 1.8

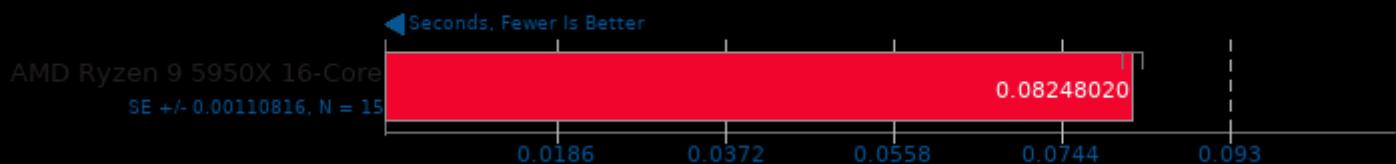
Benchmark: Quasigroup



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

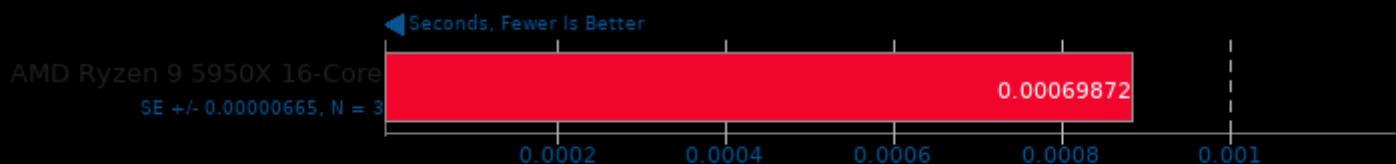
Perl Benchmarks

Test: Pod2html



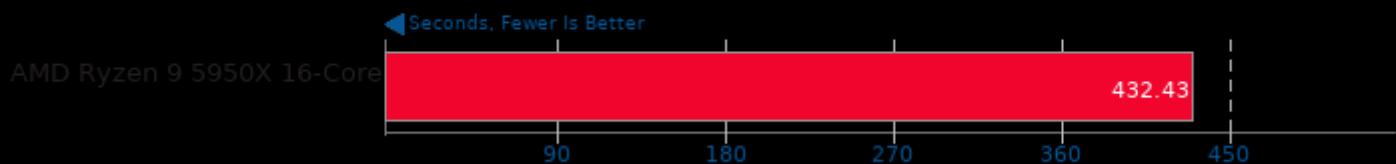
Perl Benchmarks

Test: Interpreter



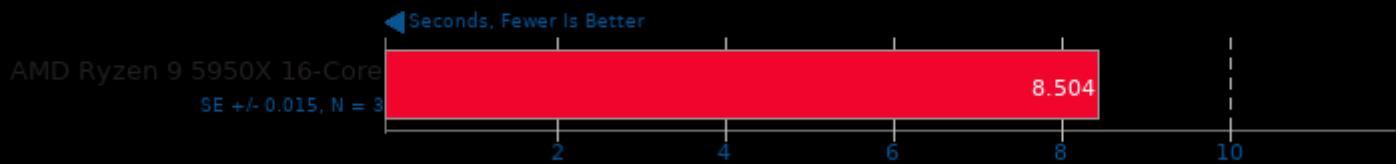
Radiance Benchmark 5.0

Test: Serial



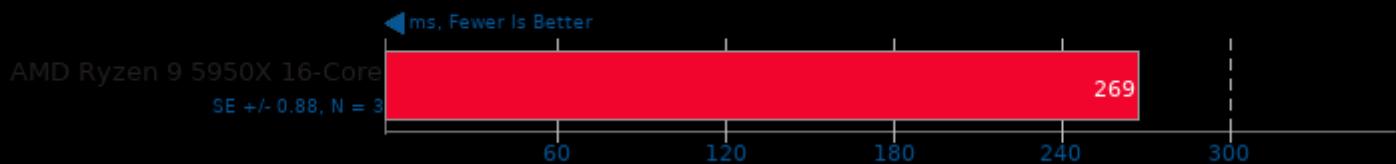
Sudokut 0.4

Total Time



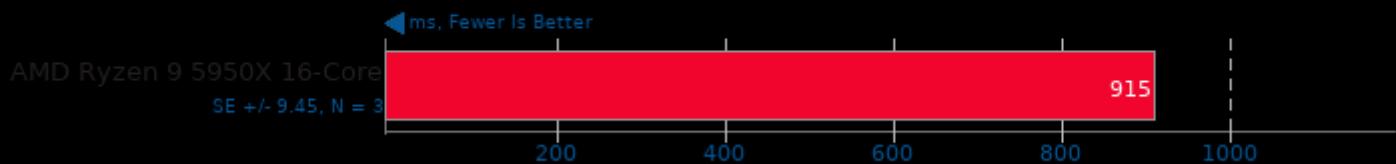
System Libxml2 Parsing

Filesize: 1 MB



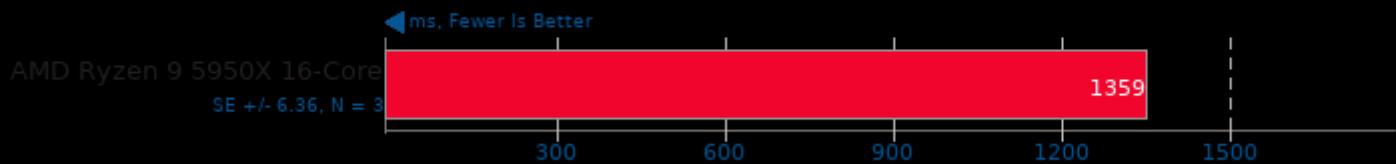
System Libxml2 Parsing

Filesize: 2 MB



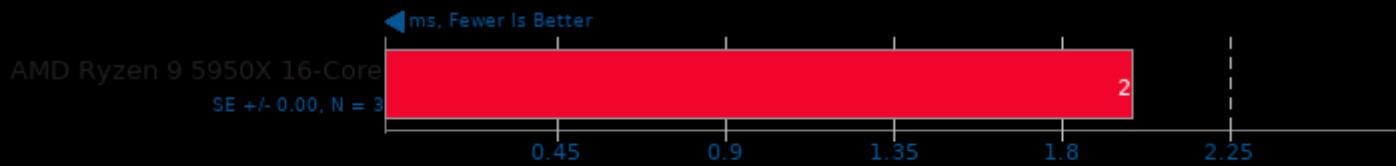
System Libxml2 Parsing

Filesize: 3 MB



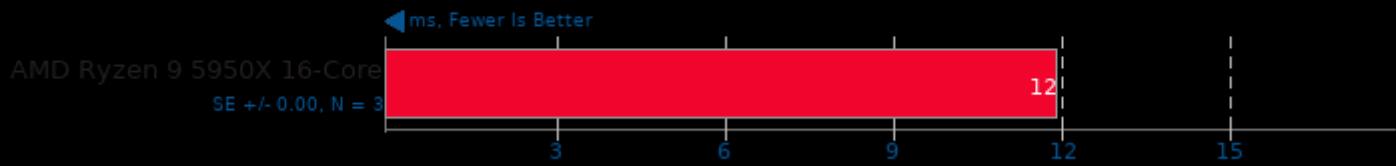
System Libxml2 Parsing

Filesize: 5 KB



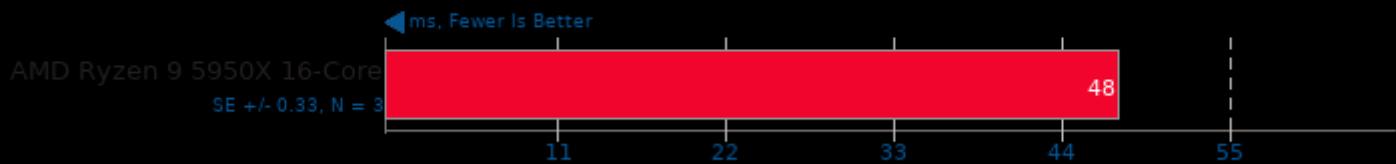
System Libxml2 Parsing

Filesize: 50 KB



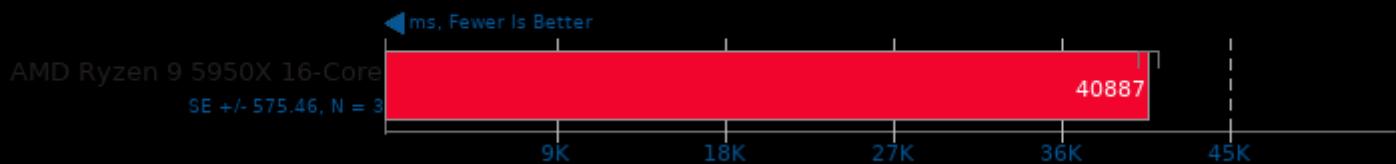
System Libxml2 Parsing

Filesize: 100 KB



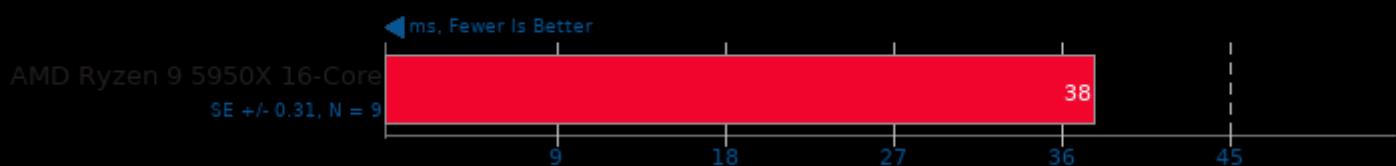
System Libxml2 Parsing

Filesize: 112 MB



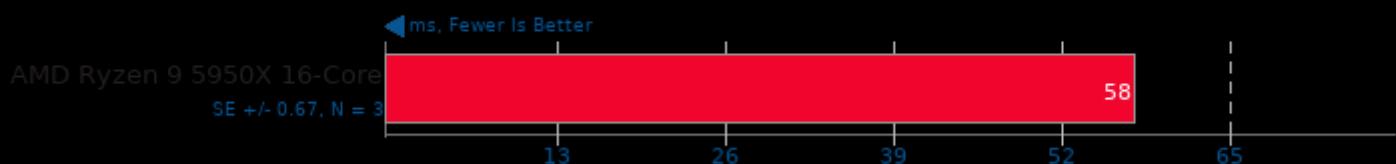
System Libxml2 Parsing

Filesize: 150 KB



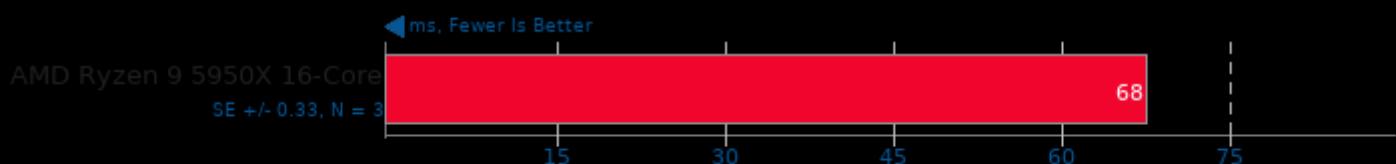
System Libxml2 Parsing

Filesize: 200 KB



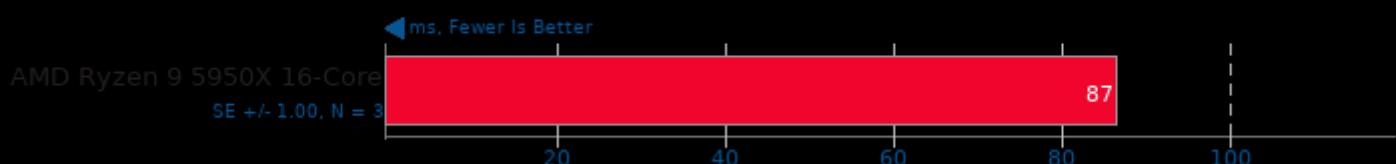
System Libxml2 Parsing

Filesize: 250 KB



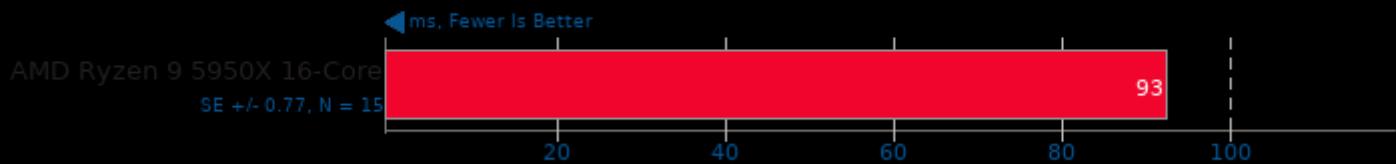
System Libxml2 Parsing

Filesize: 300 KB



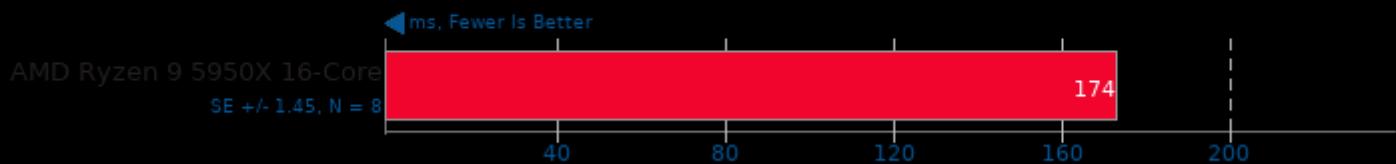
System Libxml2 Parsing

Filesize: 350 KB



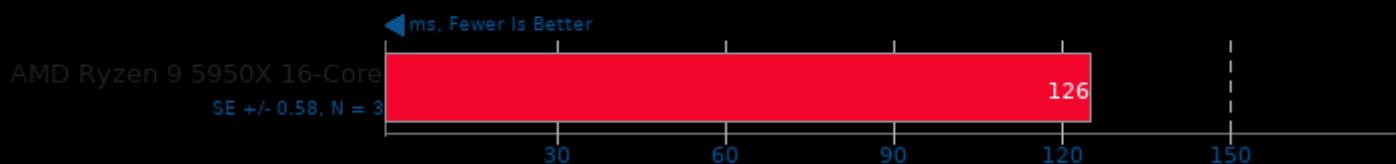
System Libxml2 Parsing

Filesize: 400 KB



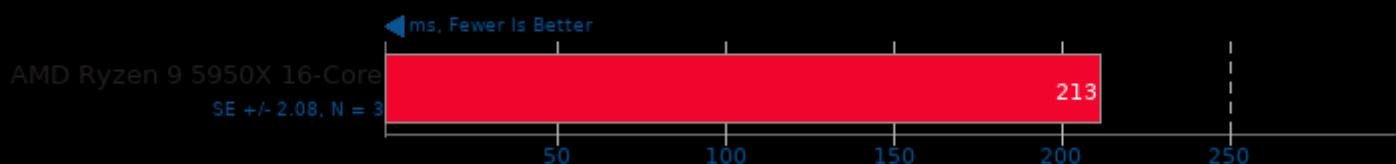
System Libxml2 Parsing

Filesize: 450 KB



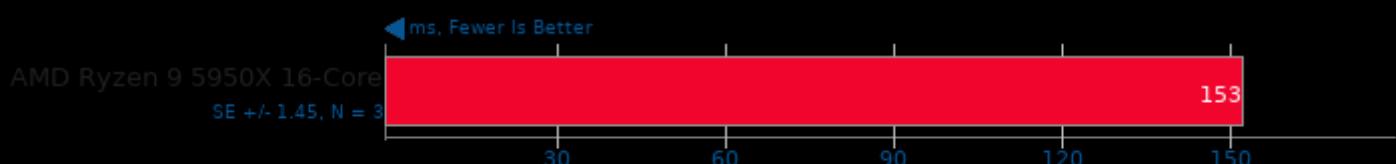
System Libxml2 Parsing

Filesize: 500 KB



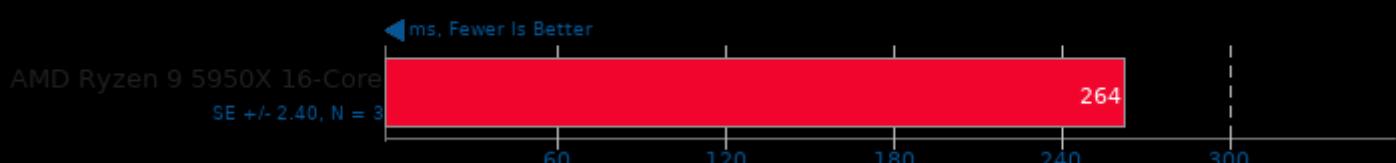
System Libxml2 Parsing

Filesize: 550 KB



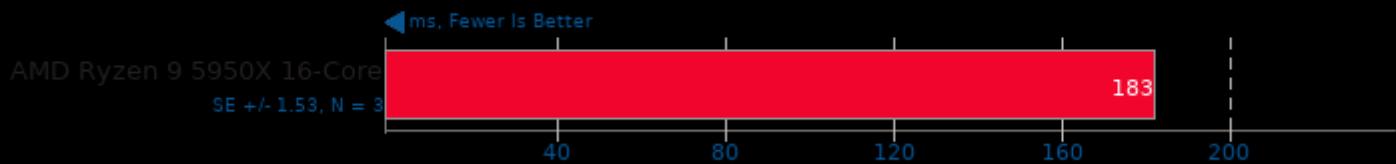
System Libxml2 Parsing

Filesize: 600 KB



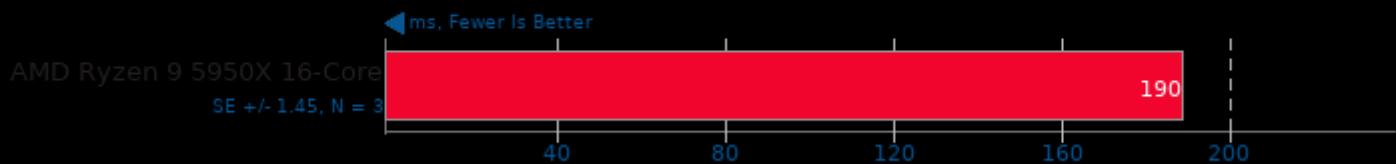
System Libxml2 Parsing

Filesize: 650 KB



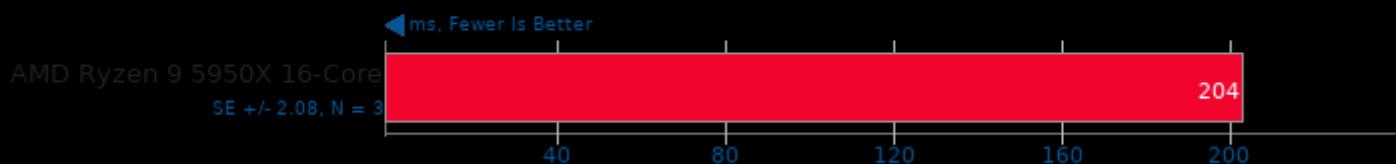
System Libxml2 Parsing

Filesize: 700 KB



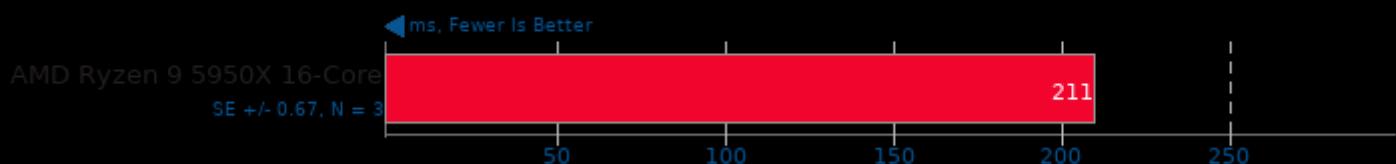
System Libxml2 Parsing

Filesize: 750 KB



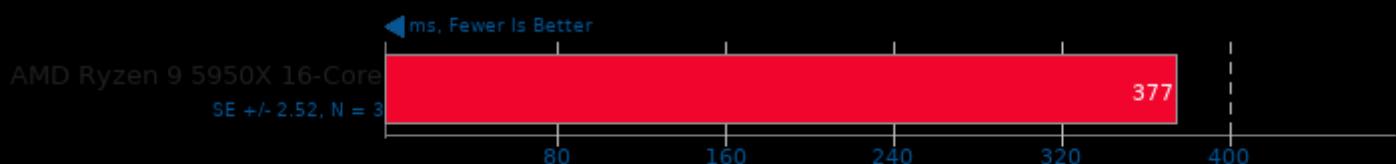
System Libxml2 Parsing

Filesize: 800 KB



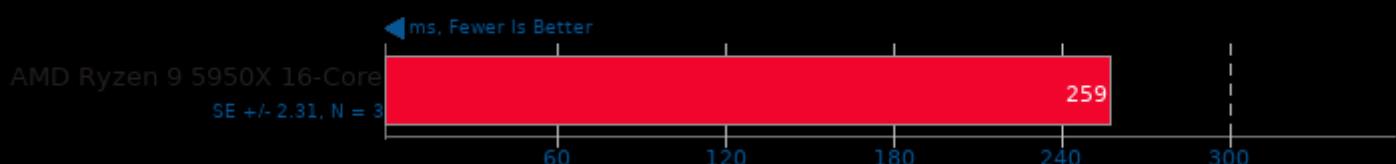
System Libxml2 Parsing

Filesize: 850 KB



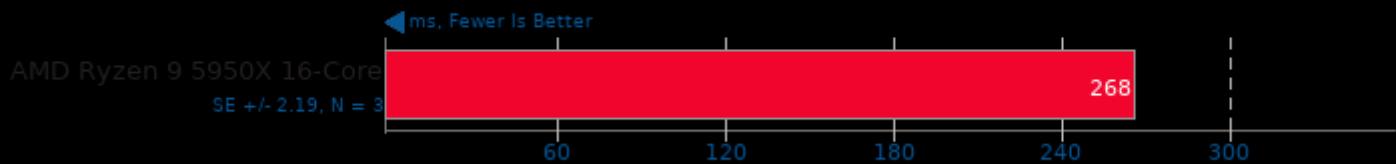
System Libxml2 Parsing

Filesize: 900 KB

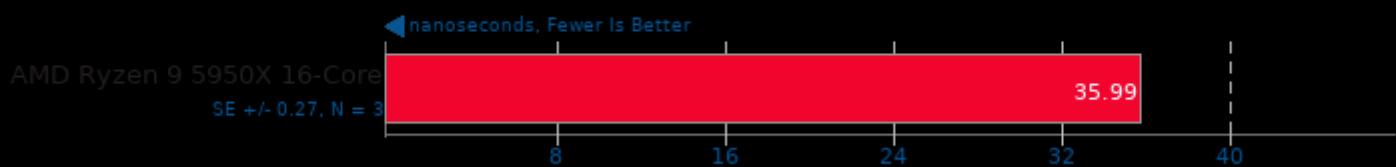


System Libxml2 Parsing

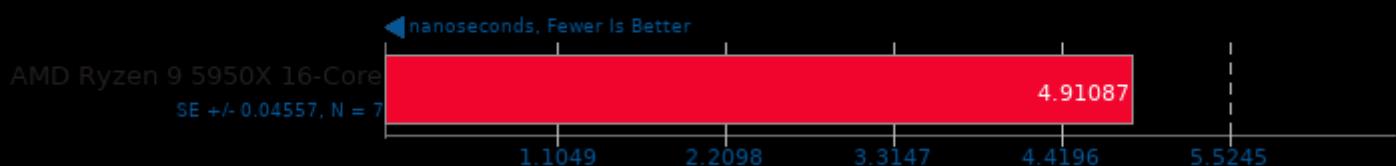
Filesize: 950 KB

**glibc bench 1.0**

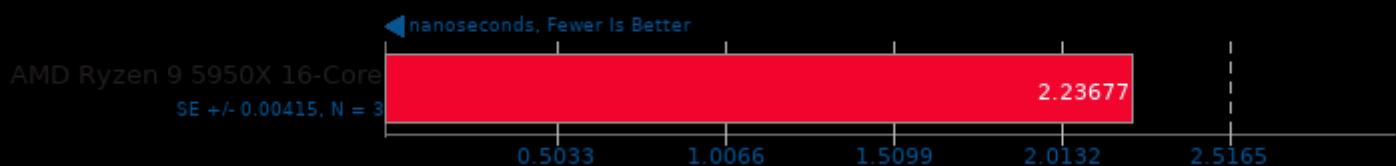
Benchmark: cos

**glibc bench 1.0**

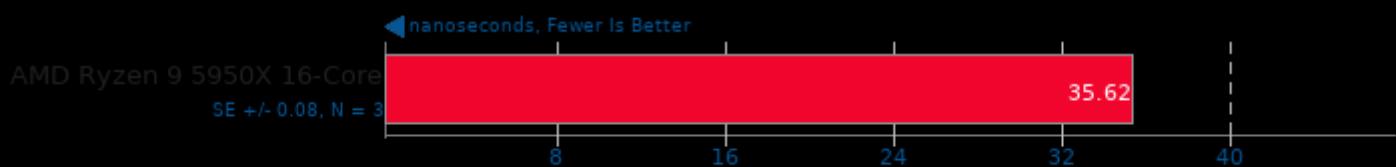
Benchmark: exp

**glibc bench 1.0**

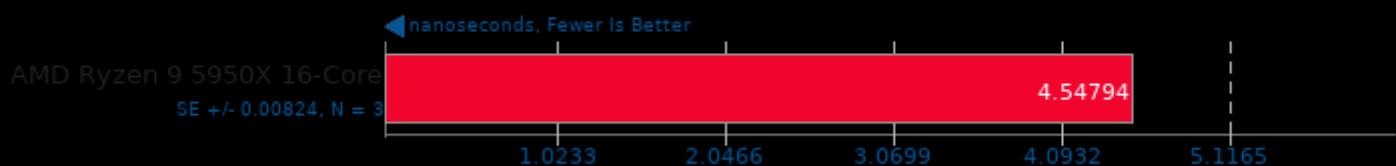
Benchmark: ffs

**glibc bench 1.0**

Benchmark: sin

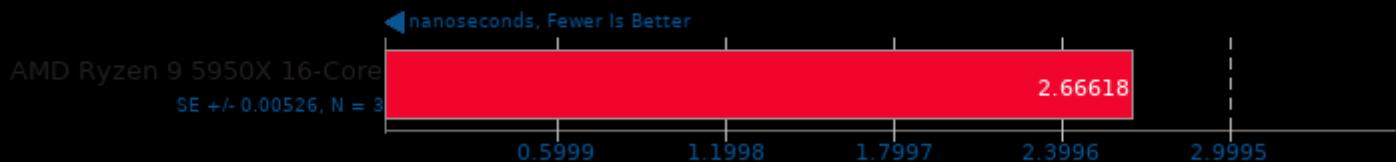
**glibc bench 1.0**

Benchmark: log2

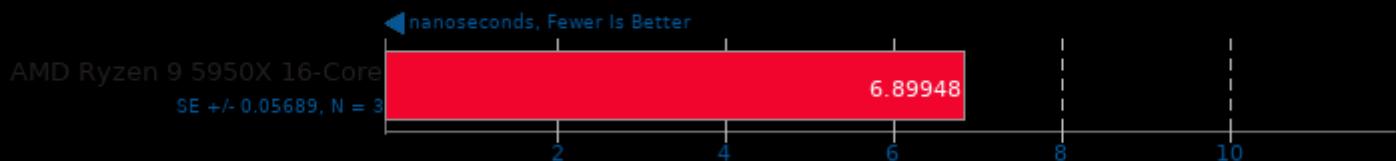


glibc bench 1.0

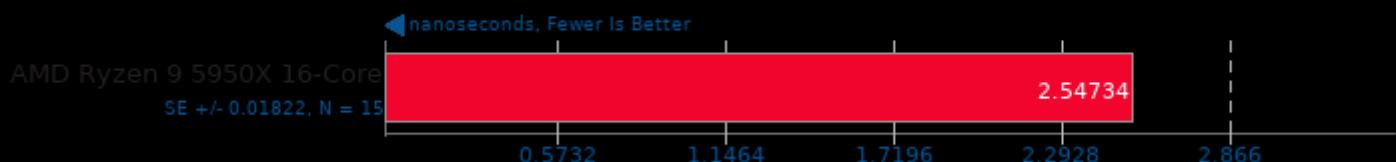
Benchmark: modf

**glibc bench 1.0**

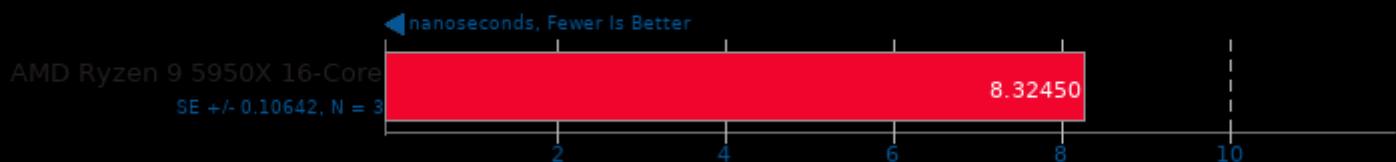
Benchmark: sinh

**glibc bench 1.0**

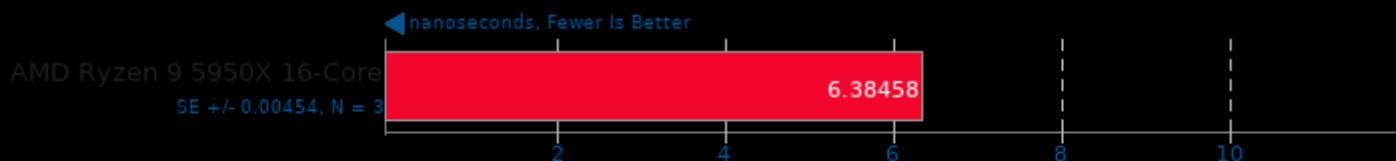
Benchmark: sqrt

**glibc bench 1.0**

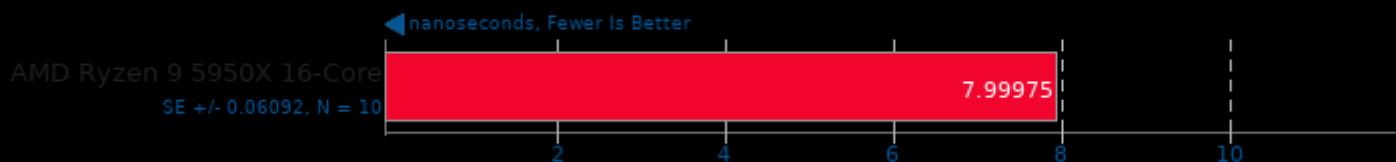
Benchmark: tanh

**glibc bench 1.0**

Benchmark: asinh

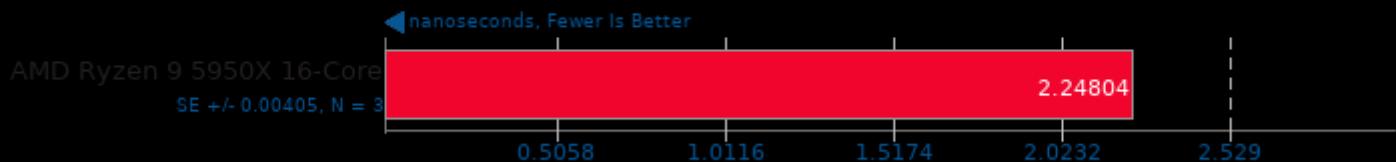
**glibc bench 1.0**

Benchmark: atanh

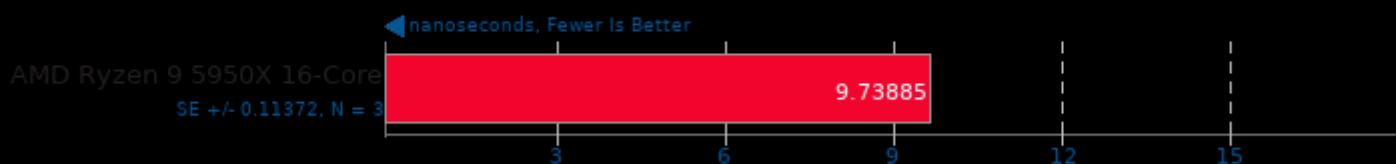


glibc bench 1.0

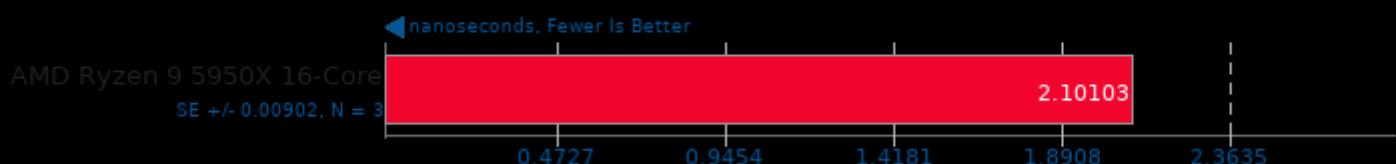
Benchmark: ffsll

**glibc bench 1.0**

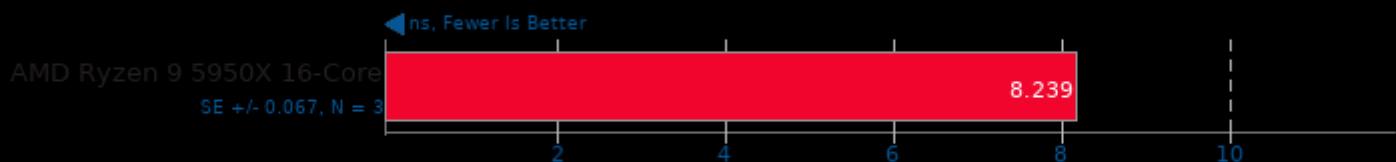
Benchmark: sincos

**glibc bench 1.0**

Benchmark: pthread_once

**Multichase Pointer Chaser**

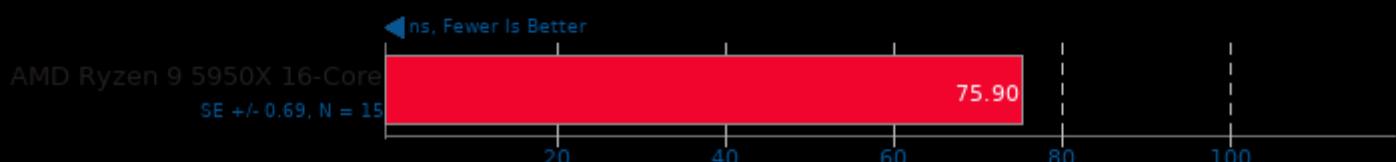
Test: 4MB Array, 64 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -lrt

Multichase Pointer Chaser

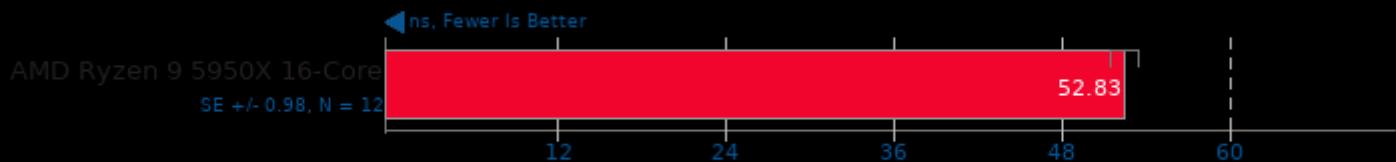
Test: 1GB Array, 256 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -lrt

Multichase Pointer Chaser

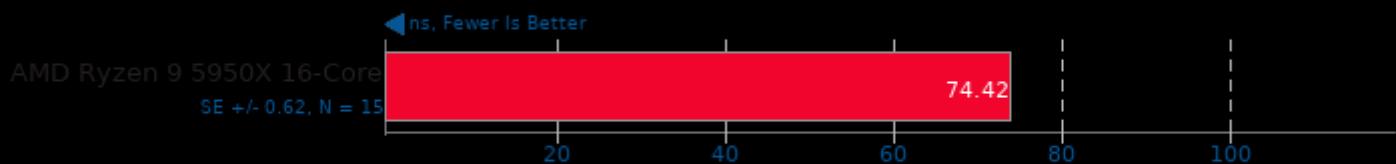
Test: 256MB Array, 256 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -frt

Multichase Pointer Chaser

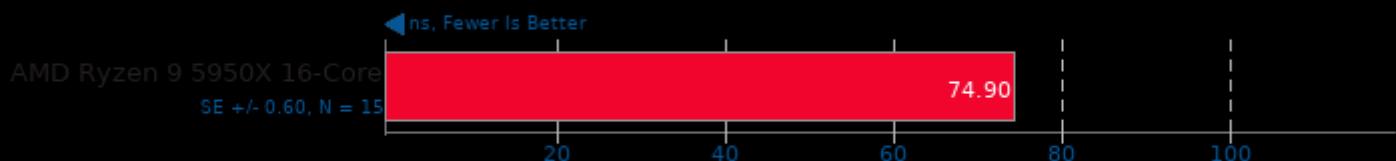
Test: 1GB Array, 256 Byte Stride, 2 Threads



1. (CC) gcc options: -O2 -static -pthread -frt

Multichase Pointer Chaser

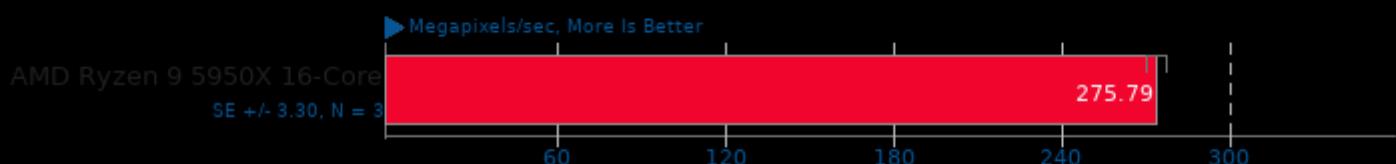
Test: 1GB Array, 256 Byte Stride, 4 Threads



1. (CC) gcc options: -O2 -static -pthread -frt

libjpeg-turbo tjbench 2.0.2

Test: Decompression Throughput



1. (CC) gcc options: -O3 -rdynamic

CppPerformanceBenchmarks 9

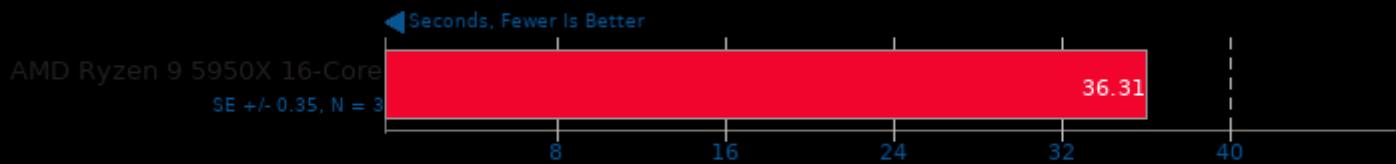
Test: Atol



1. (CXX) g++ options: -std=c++11 -O3

CppPerformanceBenchmarks 9

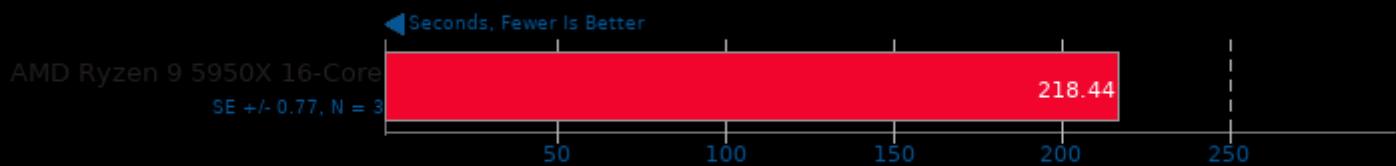
Test: Ctype



1. (CXX) g++ options: -std=c++11 -O3

CppPerformanceBenchmarks 9

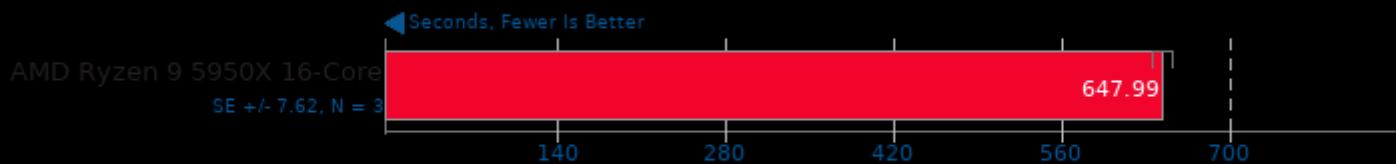
Test: Math Library



1. (CXX) g++ options: -std=c++11 -O3

CppPerformanceBenchmarks 9

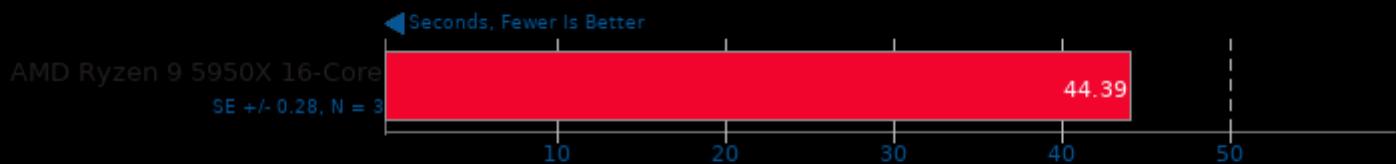
Test: Random Numbers



1. (CXX) g++ options: -std=c++11 -O3

CppPerformanceBenchmarks 9

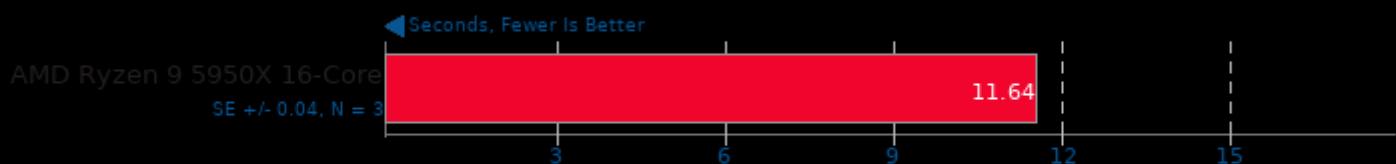
Test: Stepanov Vector



1. (CXX) g++ options: -std=c++11 -O3

CppPerformanceBenchmarks 9

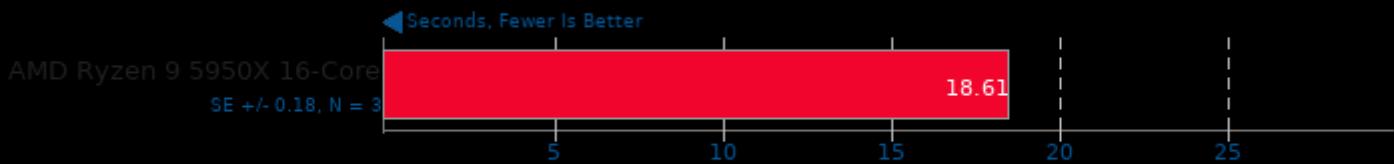
Test: Function Objects



1. (CXX) g++ options: -std=c++11 -O3

CppPerformanceBenchmarks 9

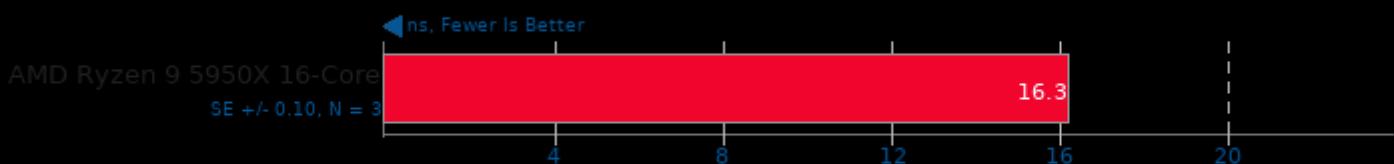
Test: Stepanov Abstraction



1. (CXX) g++ options: -std=c++11 -O3

BenchmarkMutex

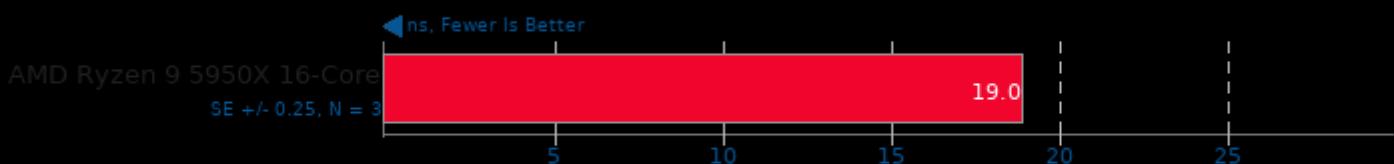
Benchmark: Shared Mutex Lock Shared



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

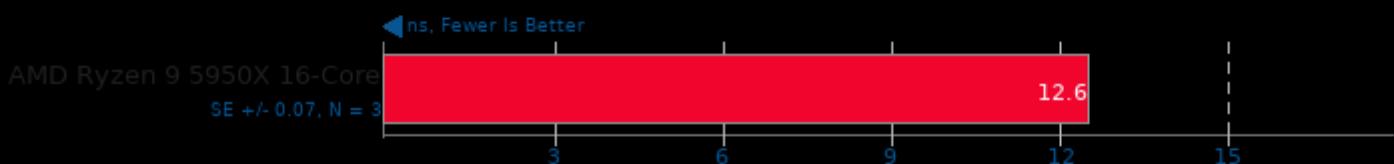
Benchmark: Mutex Lock Unlock spinlock



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

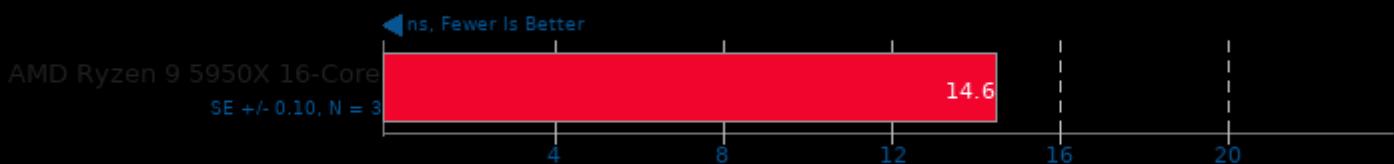
Benchmark: Mutex Lock Unlock std::mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

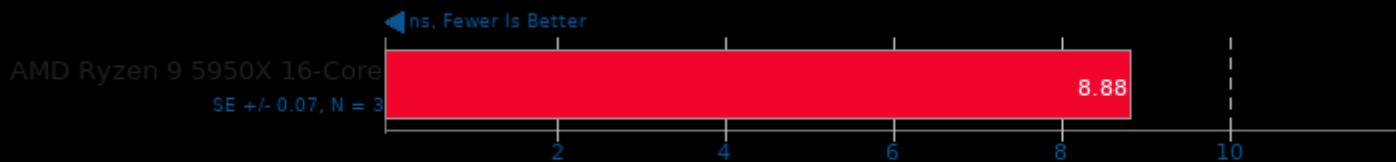
Benchmark: Mutex Lock Unlock std::mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

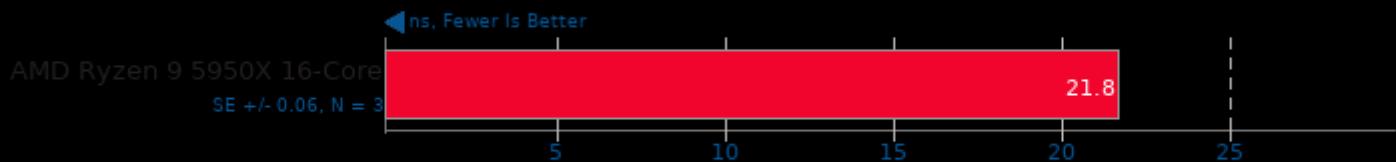
Benchmark: Semaphore Release And Acquire



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

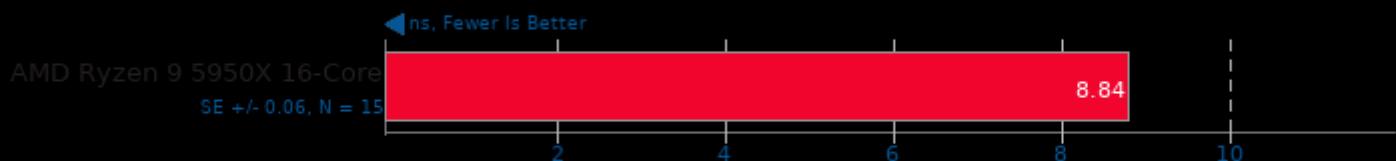
Benchmark: Mutex Lock Unlock spinlock_amd



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

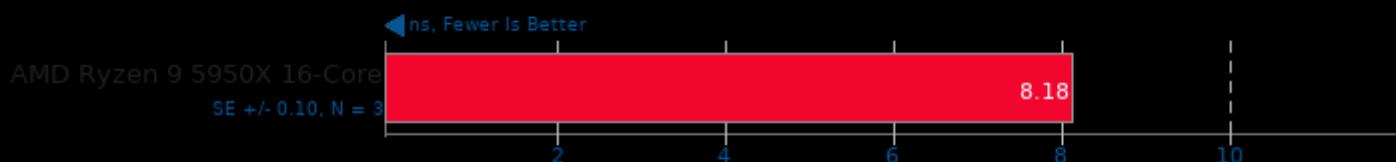
Benchmark: Mutex Lock Unlock pthread_mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

Benchmark: Mutex Lock Unlock ticket_spinlock



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

Redis 6.0.9

Test: LPOP



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

Test: SADD



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

Test: LPUSH



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

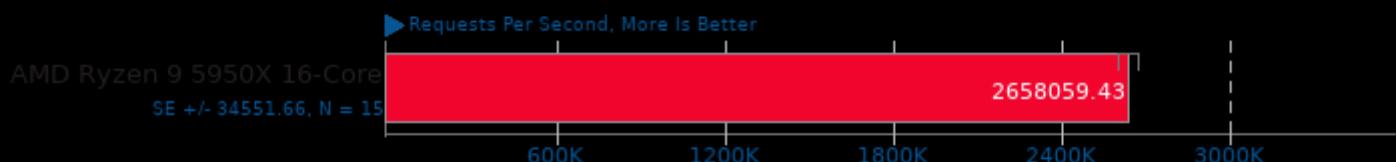
Test: GET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

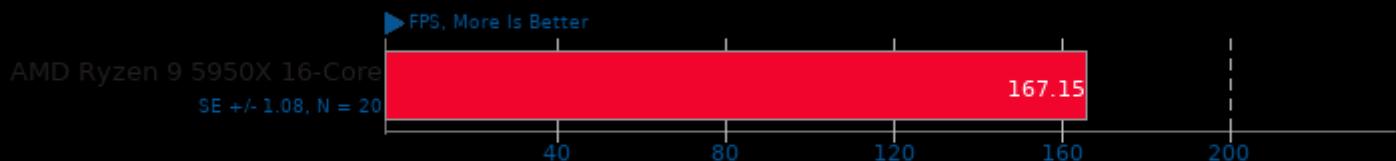
Test: SET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Optcarrot

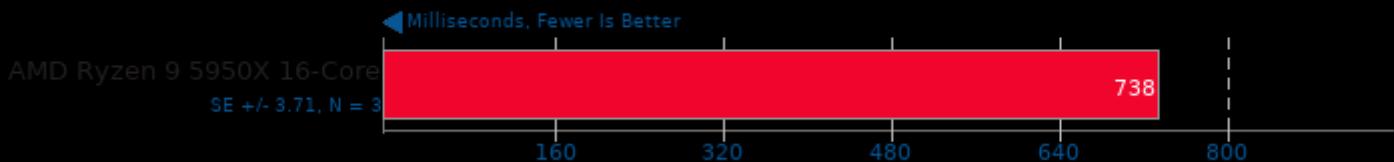
Optimized Benchmark



1. ruby 3.0.1p64 (2021-04-05 revision 0fb782ee38) [x86_64-linux]

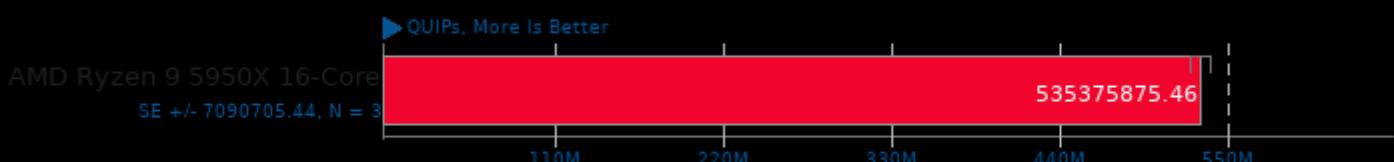
PyBench 2018-02-16

Total For Average Test Times



Hierarchical INTegration 1.0

Test: FLOAT



1. (CC) gcc options: -O3 -march=native -lm

NGINX Benchmark 1.9.9

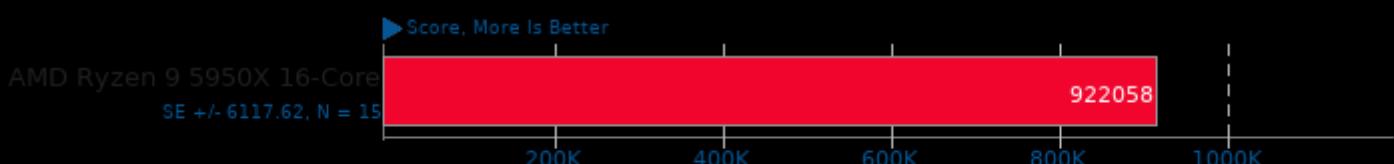
Static Web Page Serving



1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz -O3 -march=native

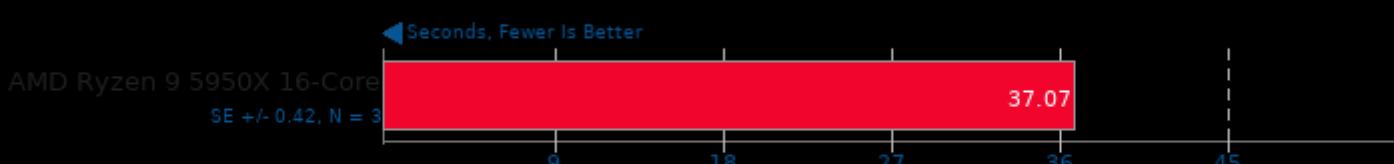
PHPBench 0.8.1

PHP Benchmark Suite



Git

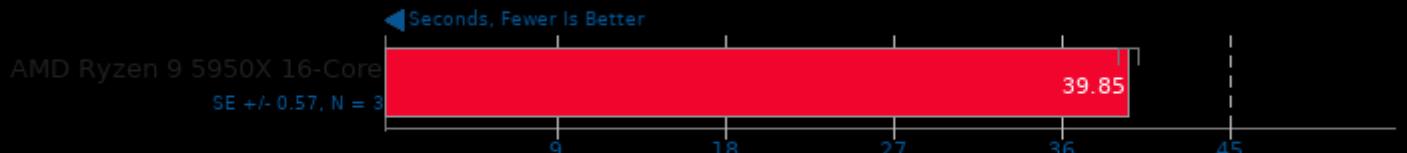
Time To Complete Common Git Commands



1. git version 2.31.1

GnuPG 2.2.27

2.7GB Sample File Encryption



1. (CC) gcc options: -O2

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:34.
