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single-core

AMD Ryzen 5 5600G testing with a ASUS ROG STRIX B450-F GAMING II (4301 BIOS) and ASUS AMD Cezanne on Debian GNU/Linux 11 via the Phoronix Test Suite.

Test Systems:

AMD

Processor: AMD Ryzen 5 5600G @ 3.90GHz (6 Cores / 12 Threads), Motherboard: ASUS ROG STRIX B450-F GAMING II (4301 BIOS), Chipset: AMD Renoir Root Complex, Memory: 32GB, Disk: 1000GB Samsung SSD 860 + 5 x 12000GB Western Digital WD120EMFZ-11, Graphics: ASUS AMD Cezanne (1900/400MHz), Audio: AMD Device 1637, Network: Intel I211

OS: Debian GNU/Linux 11, Kernel: 5.11.22-5-pve (x86_64), 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,amdgn-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: 0xa50000b

Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-post-Debian-1deb11u1)

Python Notes: Python 3.9.2

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 + srbd: Not affected + tsx_async_abort: Not affected

AMD

PolyBench-C - C.C (sec)	2.343
Standard Deviation	0.9%
PolyBench-C - C.C (sec)	2.395
Standard Deviation	1.4%
PolyBench-C - 3.M.M (sec)	2.695
Standard Deviation	2.3%
Izbench - XZ 0 - Compression (MB/s)	37
Standard Deviation	1.6%
Izbench - XZ 0 - Decompression (MB/s)	144
Standard Deviation	0.8%
Izbench - Zstd 1 - Compression (MB/s)	540
Standard Deviation	0.4%
Izbench - Zstd 1 - Decompression (MB/s)	1852
Standard Deviation	0.8%
Izbench - Zstd 8 - Compression (MB/s)	51
Standard Deviation	2%
Izbench - Zstd 8 - Decompression (MB/s)	1771
Standard Deviation	3.9%
Izbench - Crush 0 - Compression (MB/s)	70
Standard Deviation	1.7%
Izbench - Crush 0 - Decompression (MB/s)	540
Izbench - Brotli 0 - Compression (MB/s)	467
Standard Deviation	1%
Izbench - Brotli 0 - Decompression (MB/s)	664
Standard Deviation	0.9%
Izbench - Brotli 2 - Compression (MB/s)	170
Standard Deviation	1.9%
Izbench - Brotli 2 - Decompression (MB/s)	732
Standard Deviation	0.2%
Izbench - Libdeflate 1 - Compression (MB/s)	266
Standard Deviation	0.4%
BLAKE2 (Cycles/Byte)	5.48
Standard Deviation	0.1%
GNU GMP GMPbench - Total Time (GMPbench Score)	6005
Java SciMark - Composite (Mflops)	3284
Standard Deviation	1%
Java SciMark - Monte Carlo (Mflops)	1657
Standard Deviation	1.5%
Java SciMark - F.F.T (Mflops)	2360

	Standard Deviation	1.6%
Java SciMark - S.M.M (Mflops)	2785	
	Standard Deviation	1.3%
Java SciMark - D.L.M.F (Mflops)	7587	
	Standard Deviation	2.1%
Java SciMark - J.S.O.R (Mflops)	2032	
	Standard Deviation	0.6%
Bork File Encrypter - F.E.T (sec)	7.833	
	Standard Deviation	2.2%
Fhourstones - C.C.4.S (Kpos / sec)	11007	
	Standard Deviation	0.7%
BYTE Unix Benchmark - Dhystone 2 (LPS)	46921254	
	Standard Deviation	0.3%
CacheBench - Read (MB/s)	3316	
	Standard Deviation	0.2%
CacheBench - Write (MB/s)	30889	
	Standard Deviation	0.1%
CacheBench - R.M.W (MB/s)	60781	
	Standard Deviation	1.6%
LuaJIT - Composite (Mflops)	1453	
	Standard Deviation	0.3%
LuaJIT - Monte Carlo (Mflops)	529.41	
	Standard Deviation	0.2%
LuaJIT - F.F.T (Mflops)	292.79	
	Standard Deviation	0.9%
LuaJIT - S.M.M (Mflops)	1395	
	Standard Deviation	0.4%
LuaJIT - D.L.M.F (Mflops)	3004	
	Standard Deviation	0.4%
LuaJIT - J.S.O.R (Mflops)	2044	
	Standard Deviation	0.7%
SciMark - Composite (Mflops)	693.94	
	Standard Deviation	0.2%
SciMark - Monte Carlo (Mflops)	164.93	
	Standard Deviation	0.6%
SciMark - F.F.T (Mflops)	284.05	
	Standard Deviation	1.4%
SciMark - S.M.M (Mflops)	733.18	
	Standard Deviation	0.6%
SciMark - D.L.M.F (Mflops)	1093	
	Standard Deviation	0.4%
SciMark - J.S.O.R (Mflops)	1195	
	Standard Deviation	0.4%
Botan - KASUMI (MiB/s)	98.643	
	Standard Deviation	0.2%
Botan - KASUMI - Decrypt (MiB/s)	94.419	
	Standard Deviation	0%
Botan - AES-256 (MiB/s)	6229	
	Standard Deviation	0.4%
Botan - AES-256 - Decrypt (MiB/s)	6208	
	Standard Deviation	0.4%
Botan - Twofish (MiB/s)	408.579	
	Standard Deviation	0.6%

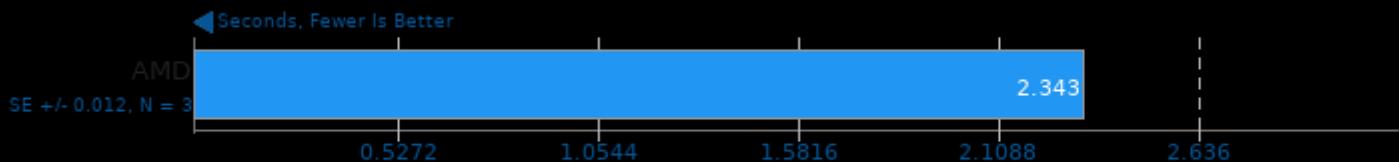
Botan - Twofish - Decrypt (MiB/s)	403.350
Standard Deviation	0.5%
Botan - Blowfish (MiB/s)	522.263
Standard Deviation	2.5%
Botan - Blowfish - Decrypt (MiB/s)	518.245
Standard Deviation	2.4%
Botan - CAST-256 (MiB/s)	160.993
Standard Deviation	0.1%
Botan - CAST-256 - Decrypt (MiB/s)	160.338
Standard Deviation	0.1%
Botan - ChaCha20Poly1305 (MiB/s)	765.438
Standard Deviation	0.1%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	753.899
Standard Deviation	0.1%
Node.js Express HTTP Load Test (Req/sec)	5423
Standard Deviation	1.1%
Node.js Octane Benchmark (Score)	52259
Standard Deviation	0.4%
Numpy Benchmark (Score)	408.65
Standard Deviation	0.8%
Gzip Compression - L.S.T.A.T.t.g (sec)	32.906
Standard Deviation	0.8%
ddraw - R.T.P.I.C (sec)	38.416
Standard Deviation	0.1%
DeepSpeech - CPU (sec)	68.26158
Standard Deviation	0.1%
FLAC Audio Encoding - WAV To FLAC (sec)	18.055
Standard Deviation	1.1%
LAME MP3 Encoding - WAV To MP3 (sec)	6.320
Standard Deviation	0.9%
eSpeak-NG Speech Engine - T.T.S.S (sec)	41.833
Standard Deviation	11.5%
Minion - Graceful (sec)	54.913997
Standard Deviation	1.2%
Minion - Solitaire (sec)	78.425629
Standard Deviation	1.2%
Minion - Quasigroup (sec)	97.990807
Standard Deviation	2.4%
Perl Benchmarks - Pod2html (sec)	0.10681174
Standard Deviation	0.6%
Perl Benchmarks - Interpreter (sec)	0.00135881
Standard Deviation	1.5%
Radiance Benchmark - Serial (sec)	517.124
Sudokut - Total Time (sec)	10.433
Standard Deviation	0.5%
glibc bench - cos (nanoseconds)	38.1487
Standard Deviation	0%
glibc bench - exp (nanoseconds)	5.13623
Standard Deviation	1.4%
glibc bench - ffs (nanoseconds)	2.29951
Standard Deviation	2.5%
glibc bench - sin (nanoseconds)	37.8556
Standard Deviation	0%

glibc bench - log2 (nanoseconds)	4.87896
Standard Deviation	0.1%
glibc bench - modf (nanoseconds)	2.58858
Standard Deviation	0.1%
glibc bench - sinh (nanoseconds)	7.33975
Standard Deviation	0.6%
glibc bench - sqrt (nanoseconds)	2.57934
Standard Deviation	0.6%
glibc bench - tanh (nanoseconds)	9.12515
Standard Deviation	0%
glibc bench - asinh (nanoseconds)	6.68187
Standard Deviation	0.3%
glibc bench - atanh (nanoseconds)	8.45545
Standard Deviation	0.1%
glibc bench - ffsll (nanoseconds)	2.27339
Standard Deviation	3.1%
glibc bench - sincos (nanoseconds)	10.7535
Standard Deviation	0.3%
glibc bench - pthread_once (nanoseconds)	2.25012
Standard Deviation	1.3%
Multichase Pointer Chaser - 4.A.6.B.S (ns)	82.354
Standard Deviation	2.4%
Multichase Pointer Chaser - 1.A.2.B.S (ns)	99.298
Standard Deviation	0.7%
Multichase Pointer Chaser - 2.A.2.B.S (ns)	99.197
Standard Deviation	1.3%
Multichase Pointer Chaser - 1.A.2.B.S.2.T (ns)	99.010
Standard Deviation	0.2%
Multichase Pointer Chaser - 1.A.2.B.S.4.T (ns)	95.074
Standard Deviation	0.2%
libjpeg-turbo tjbench - D.T (Megapixels/sec)	241.897081
Standard Deviation	0.2%
CppPerformanceBenchmarks - Atol (sec)	39.757
Standard Deviation	0.1%
CppPerformanceBenchmarks - Ctype (sec)	42.282
Standard Deviation	0.5%
CppPerformanceBenchmarks - Math Library (sec)	244.237
Standard Deviation	0.2%
CppPerformanceBenchmarks - Rand Numbers (sec)	718.149
Standard Deviation	0.1%
CppPerformanceBenchmarks - Stepanov Vector (sec)	46.874
Standard Deviation	0.2%
CppPerformanceBenchmarks - Function Objects (sec)	12.546
Standard Deviation	0.1%
CppPerformanceBenchmarks - S.A (sec)	20.848
Standard Deviation	0.5%
BenchmarkMutex - S.M.L.S (ns)	17.3
Standard Deviation	1%
BenchmarkMutex - M.L.U.s (ns)	20.6
Standard Deviation	0.5%
BenchmarkMutex - M.L.U.s.m (ns)	13.7
Standard Deviation	0.8%
BenchmarkMutex - M.L.U.s.m (ns)	15.9

	Standard Deviation	1.3%
BenchmarkMutex - S.R.A.A (ns)	9.03	
	Standard Deviation	1.5%
BenchmarkMutex - M.L.U.s (ns)	22.7	
	Standard Deviation	0.4%
BenchmarkMutex - M.L.U.p (ns)	9.98	
	Standard Deviation	0.2%
BenchmarkMutex - M.L.U.t (ns)	9.00	
	Standard Deviation	0.6%
Redis - LPOP (Req/sec)	3523219	
	Standard Deviation	1.2%
Redis - SADD (Req/sec)	2855826	
	Standard Deviation	0.3%
Redis - LPUSH (Req/sec)	2100703	
	Standard Deviation	1%
Redis - GET (Req/sec)	3353039	
	Standard Deviation	1.7%
Redis - SET (Req/sec)	2527768	
	Standard Deviation	2.4%
Optcarrot - O.B (FPS)	147.84	
	Standard Deviation	1.6%
PyBench - T.F.A.T.T (Milliseconds)	767	
	Standard Deviation	0.9%
Hierarchical INTegration - FLOAT (QUIPs)	478973698	
	Standard Deviation	0.3%
nginx - 1 (Req/sec)	88251	
	Standard Deviation	0.1%
nginx - 20 (Req/sec)	488868	
	Standard Deviation	0.4%
nginx - 100 (Req/sec)	474147	
	Standard Deviation	0.1%
nginx - 200 (Req/sec)	463771	
	Standard Deviation	0.5%
nginx - 500 (Req/sec)	453661	
	Standard Deviation	0.5%
nginx - 1000 (Req/sec)	438264	
	Standard Deviation	0.1%
PHPBench - P.B.S (Score)	806564	
	Standard Deviation	1.1%
Git - T.T.C.C.G.C (sec)	49.361	
	Standard Deviation	0.1%

PolyBench-C 4.2

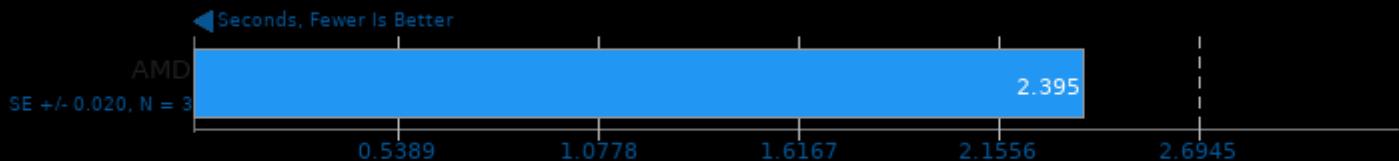
Test: Covariance Computation



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

PolyBench-C 4.2

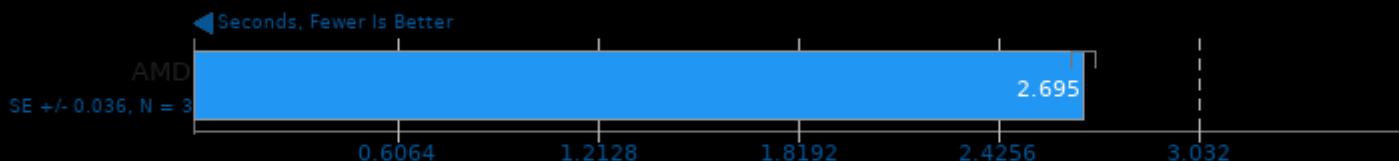
Test: Correlation Computation



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

PolyBench-C 4.2

Test: 3 Matrix Multiplications



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

Izbench 1.8

Test: XZ 0 - Process: Compression



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

Izbench 1.8

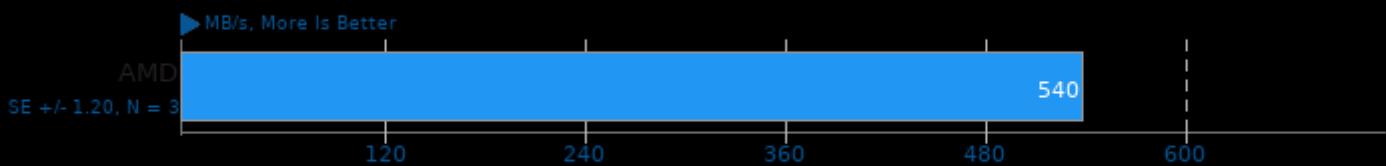
Test: XZ 0 - Process: Decompression



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

Izbench 1.8

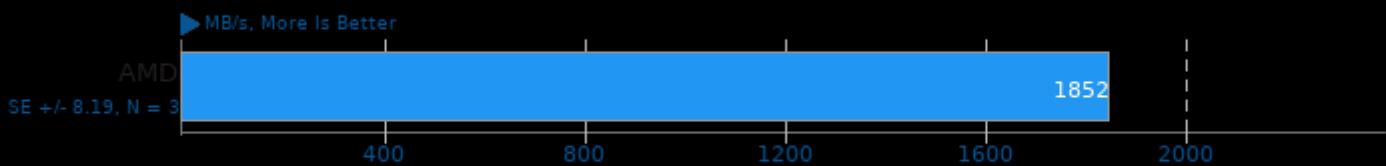
Test: Zstd 1 - Process: Compression



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

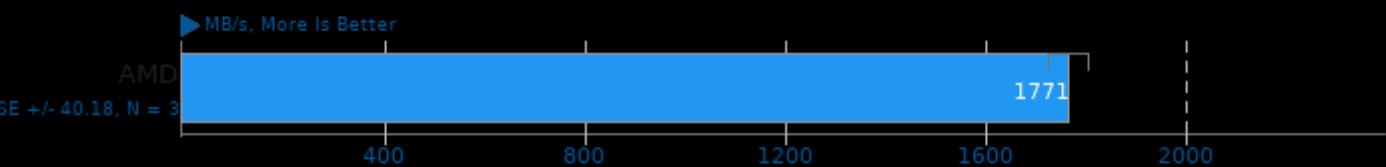
Test: Zstd 8 - Process: Compression



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

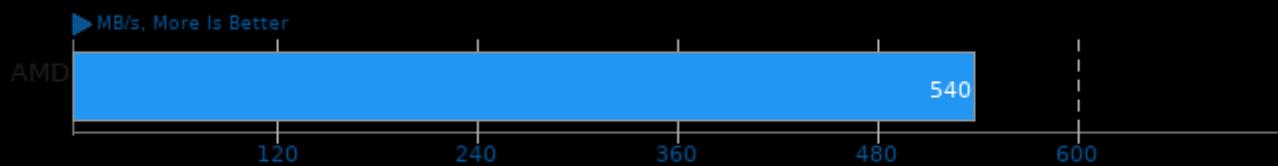
Test: Crush 0 - Process: Compression



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

Izbench 1.8

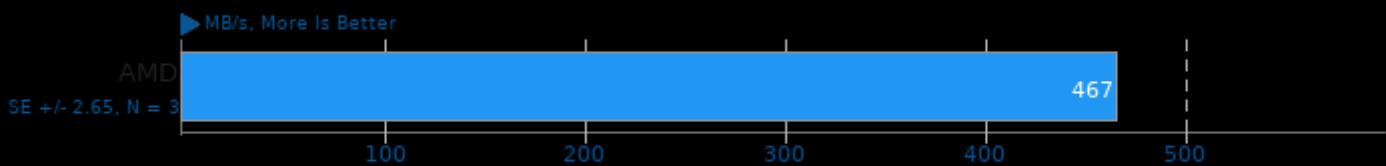
Test: Crush 0 - Process: Decompression



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



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

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

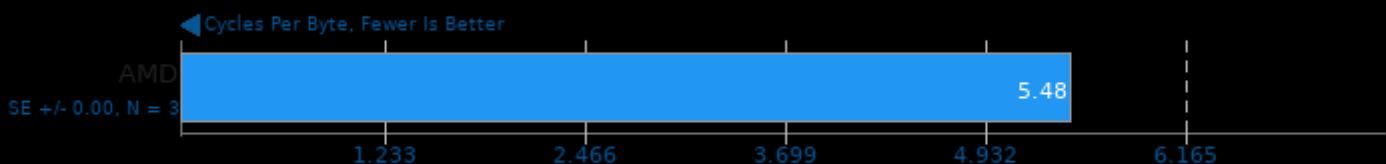
Izbench 1.8

Test: Libdeflate 1 - Process: Compression



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

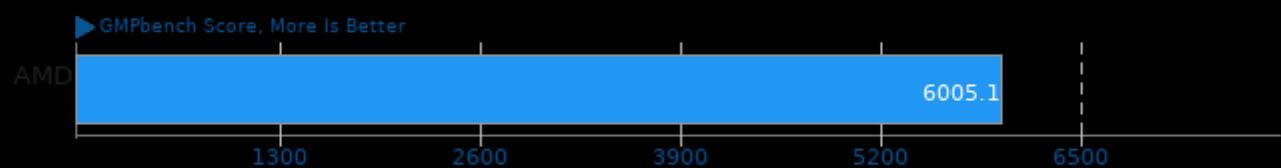
BLAKE2 20170307



l. (CC) gcc options: -O3 -march=native -lcrypto -lz

GNU GMP GMPbench 6.2.1

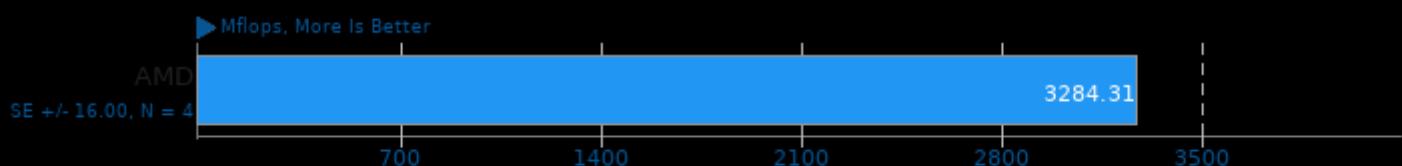
Total Time



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

Java SciMark 2.0

Computational Test: Composite



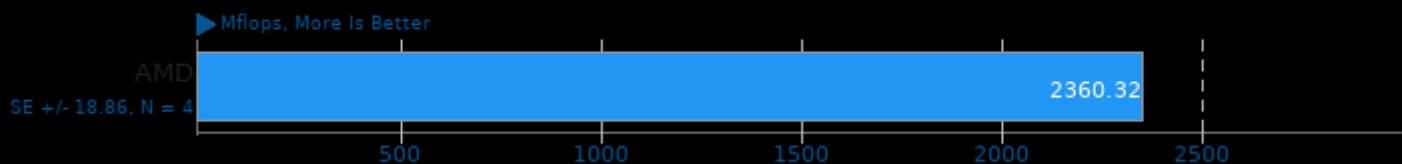
Java SciMark 2.0

Computational Test: Monte Carlo



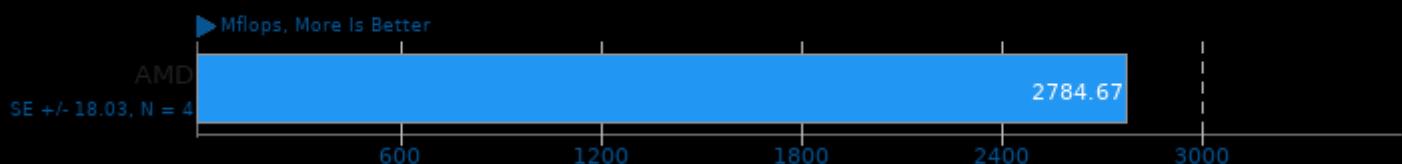
Java SciMark 2.0

Computational Test: Fast Fourier Transform



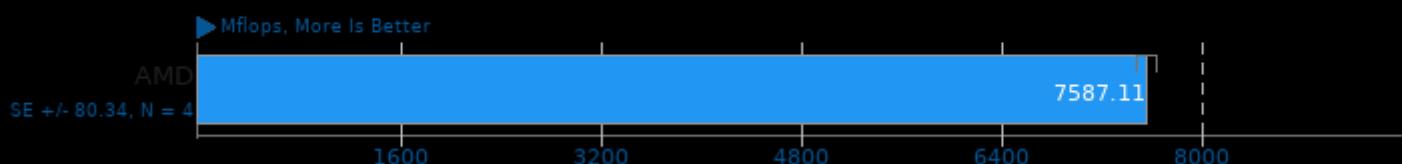
Java SciMark 2.0

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

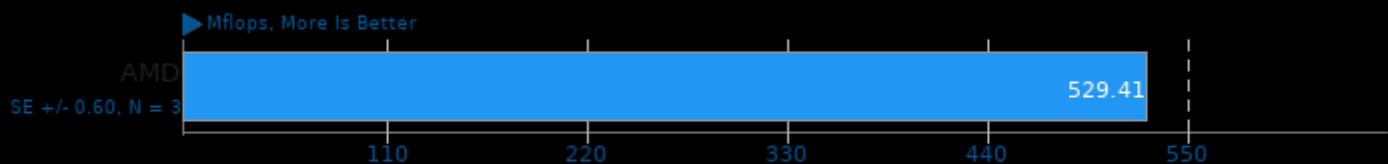
Test: Composite



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

LuaJIT 2.1-git

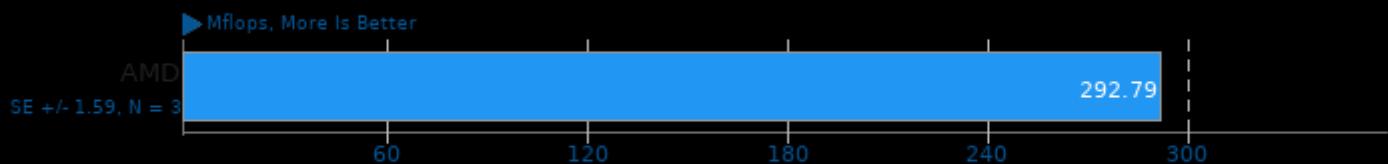
Test: Monte Carlo



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

LuaJIT 2.1-git

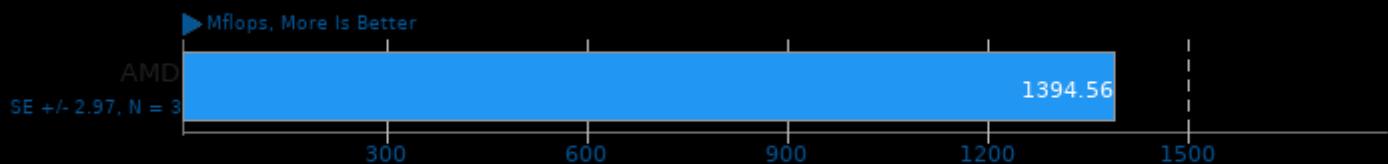
Test: Fast Fourier Transform



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

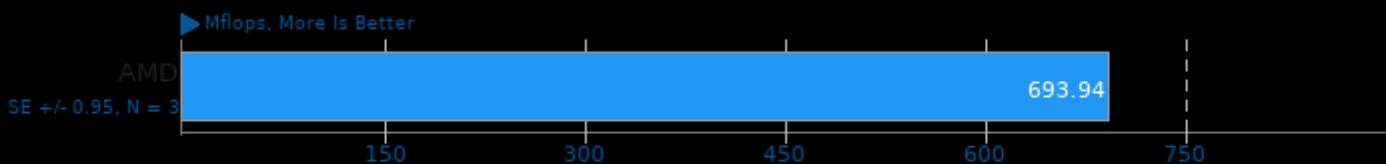
Test: Jacobi Successive Over-Relaxation



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

SciMark 2.0

Computational Test: Composite



SciMark 2.0

Computational Test: Monte Carlo



SciMark 2.0

Computational Test: Fast Fourier Transform



SciMark 2.0

Computational Test: Sparse Matrix Multiply



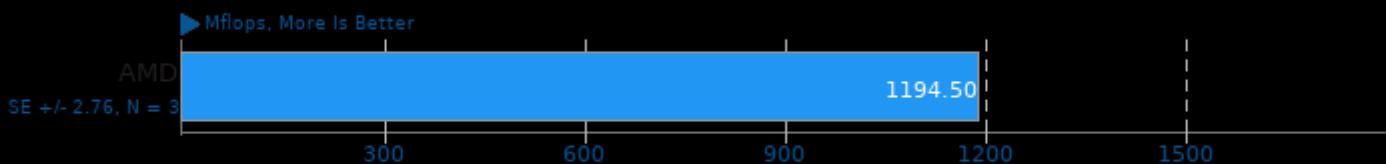
SciMark 2.0

Computational Test: Dense LU Matrix Factorization



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

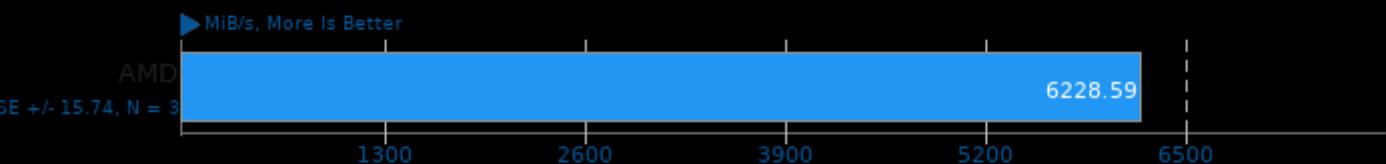
Test: KASUMI - Decrypt



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 -dl -lrt

Botan 2.17.3

Test: Blowfish



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

Botan 2.17.3

Test: Blowfish - Decrypt



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

Botan 2.17.3

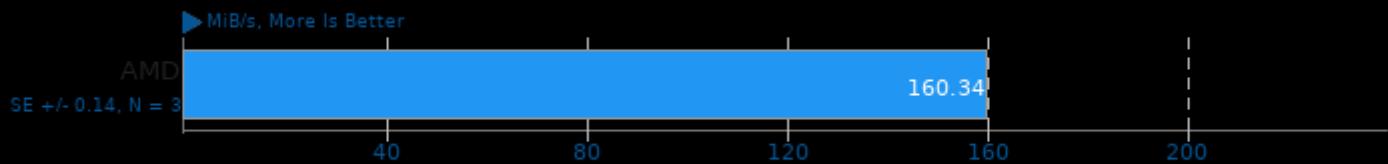
Test: CAST-256



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

Botan 2.17.3

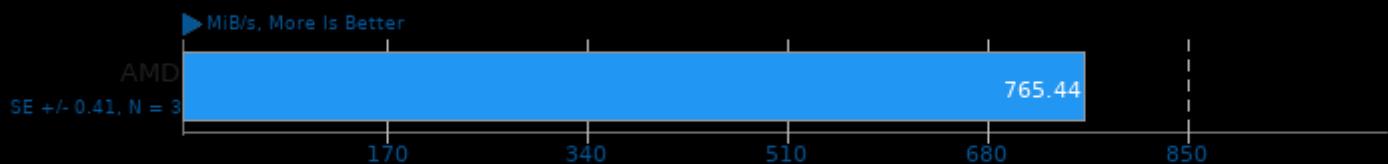
Test: CAST-256 - Decrypt



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

Botan 2.17.3

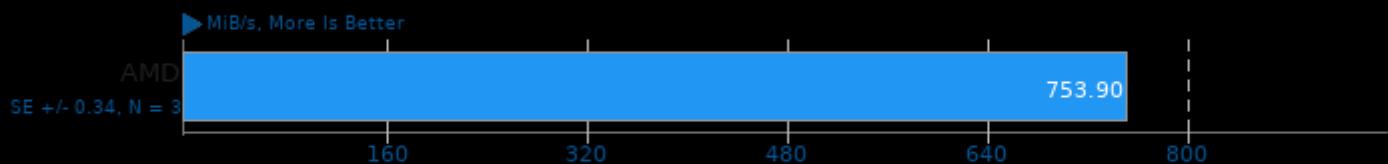
Test: ChaCha20Poly1305



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

Botan 2.17.3

Test: ChaCha20Poly1305 - Decrypt



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

Node.js Express HTTP Load Test



1. Nodejs
v12.22.5

Node.js Octane Benchmark



1. Nodejs
v12.22.5

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 1.3.3

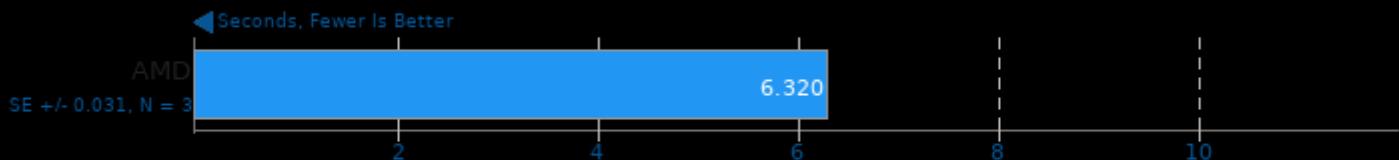
WAV To FLAC



1. (CXX) g++ options: -fvisibility=hidden -lm

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 -lm

eSpeak-NG Speech Engine 20200907

Text-To-Speech Synthesis



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

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

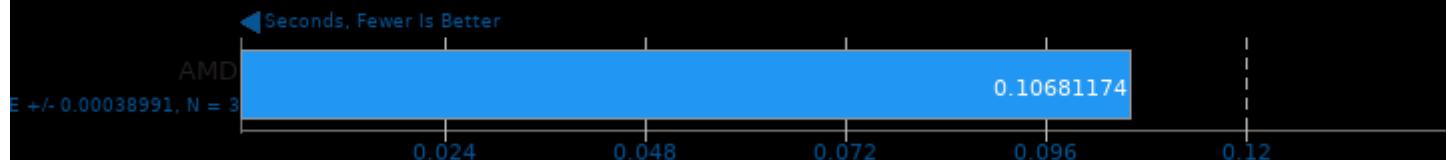
Benchmark: Quasigroup



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

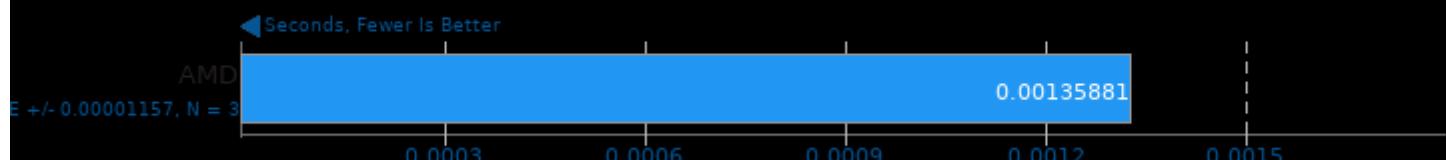
Perl Benchmarks

Test: Pod2html



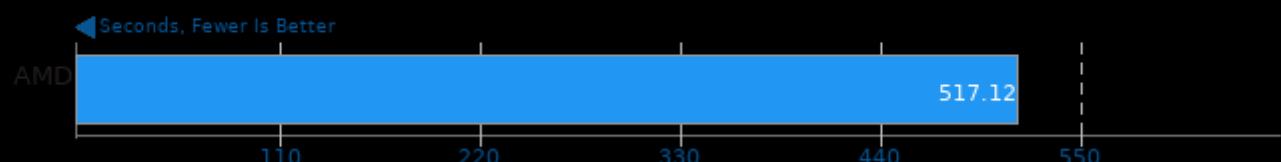
Perl Benchmarks

Test: Interpreter



Radiance Benchmark 5.0

Test: Serial



Sudoku 0.4

Total Time



glibc bench 1.0

Benchmark: cos



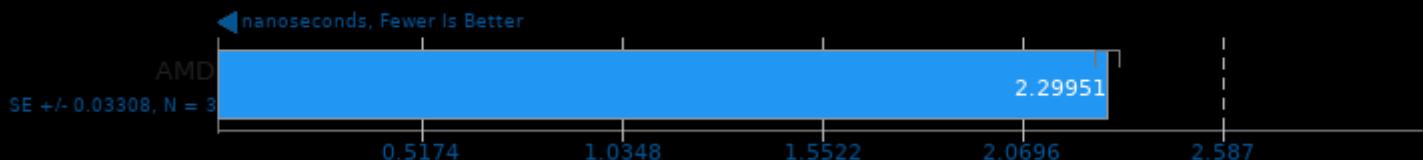
glibc bench 1.0

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

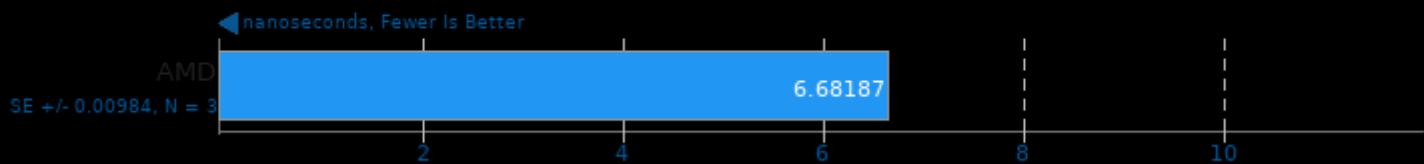


glibc bench 1.0

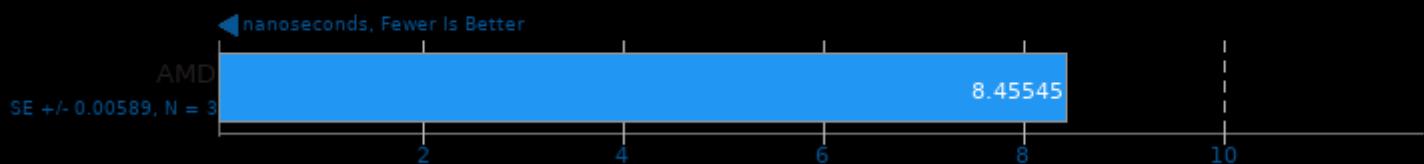
Benchmark: tanh

**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 -lrt

Multichase Pointer Chaser

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



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

Multichase Pointer Chaser

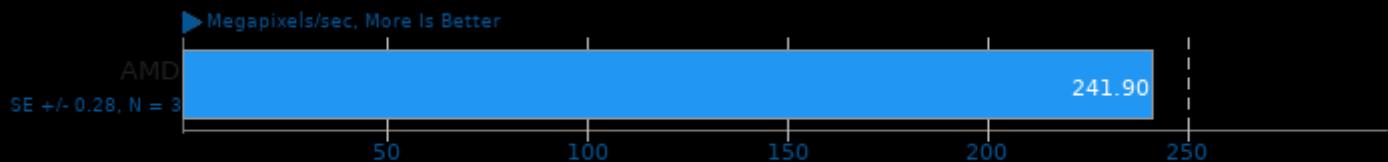
Test: 1GB Array, 256 Byte Stride, 4 Threads



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

libjpeg-turbo tjbench 2.1.0

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

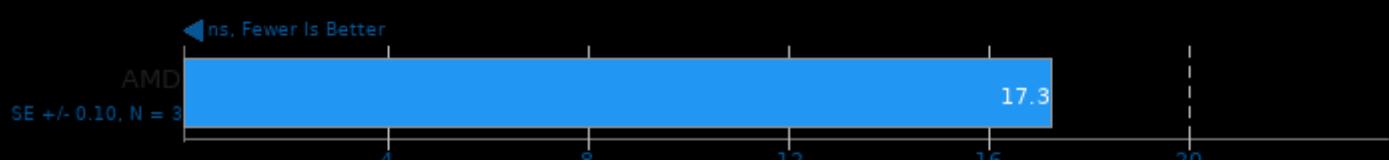
Test: Stepanov Abstraction



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

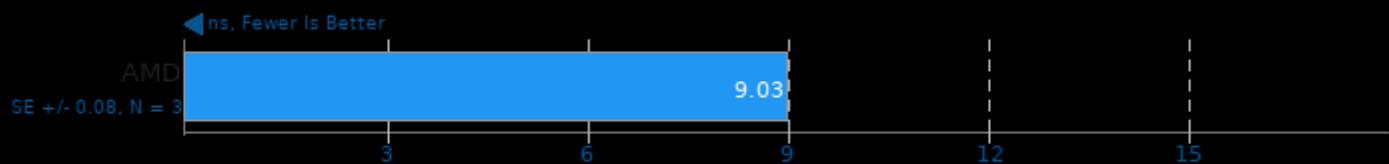
Benchmark: Mutex Lock Unlock std::mutex



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

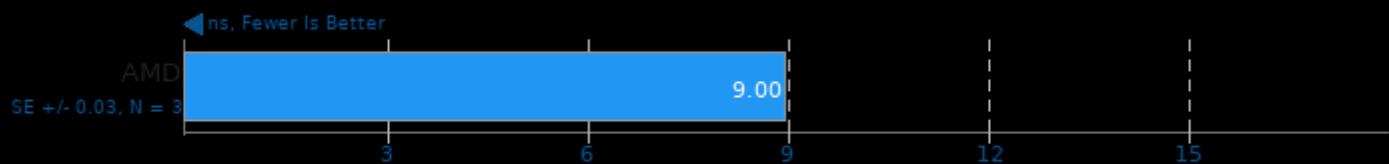
Benchmark: Mutex Lock Unlock pthread_mutex



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

BenchmarkMutex

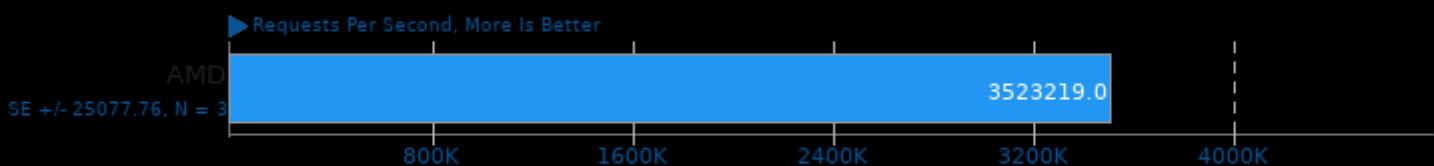
Benchmark: Mutex Lock Unlock ticket_spinlock



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

Redis 6.0.9

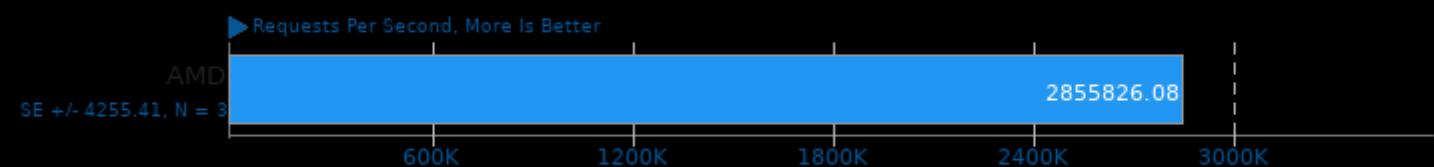
Test: LPOP



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

Redis 6.0.9

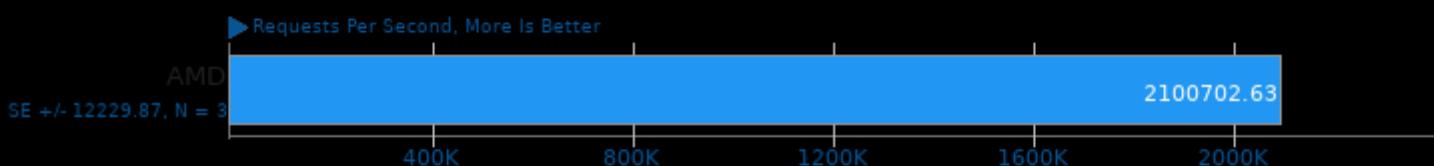
Test: SADD



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

Redis 6.0.9

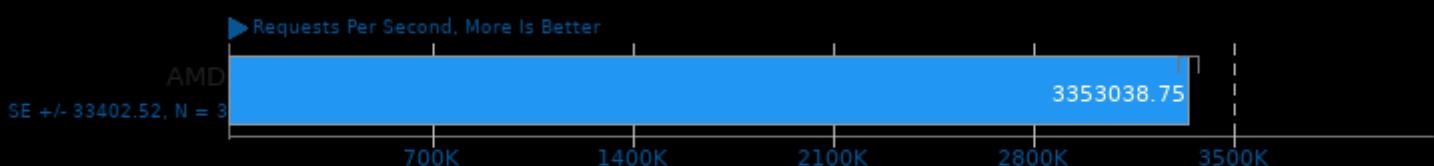
Test: LPUSH



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

Redis 6.0.9

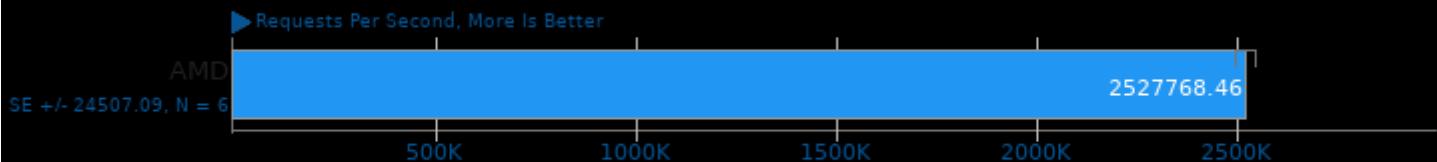
Test: GET



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 2.7.4p191 (2021-07-07 revision a21a3b7d23) [x86_64-linux-gnu]

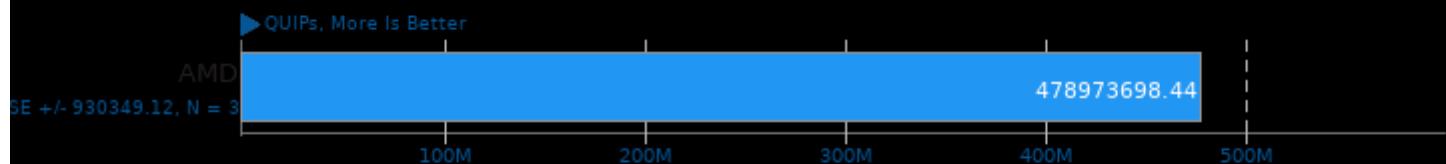
PyBench 2018-02-16

Total For Average Test Times



Hierarchical INTegration 1.0

Test: FLOAT



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

nginx 1.21.1

Concurrent Requests: 1



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

nginx 1.21.1

Concurrent Requests: 20



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

nginx 1.21.1

Concurrent Requests: 100



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

nginx 1.21.1

Concurrent Requests: 200



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

nginx 1.21.1

Concurrent Requests: 500



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

nginx 1.21.1

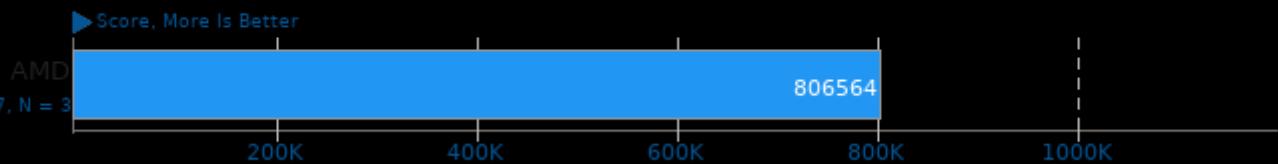
Concurrent Requests: 1000



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

PHPBench 0.8.1

PHP Benchmark Suite



Git

Time To Complete Common Git Commands



1. git version 2.30.2

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:23.