



www.phoronix-test-suite.com

test-cpu-3750

AMD Ryzen 7 3700X 8-Core testing with a ASRock X370 Gaming X (P6.00 BIOS) and Sapphire AMD Radeon RX 470/480/570/570X/580/580X/590 4GB on Arch rolling via the Phoronix Test Suite.

Automated Executive Summary

Samsung SSD 970 EVO - AMD Ryzen 7 3700X 8-Core had the most wins, coming in first place for 97% of the tests.

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

*LAMMPS Molecular Dynamics Simulator (Model: 20k Atoms) at 6.891x
Parboil (Test: OpenMP MRI Gridding) at 3.818x
Xmrig (Variant: Wownero - Hash Count: 1M) at 2.556x
Cpuminer-Opt (Algorithm: Blake-2 S) at 2.477x
Xmrig (Variant: Monero - Hash Count: 1M) at 2.408x
Zstd Compression (Compression Level: 8 - Compression Speed) at 2.309x
Aircrack-ng at 2.223x
Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 2.148x
Cpuminer-Opt (Algorithm: LBC, LBRY Credits) at 2.146x
Cpuminer-Opt (Algorithm: Skeincoin) at 2.096x.*

Test Systems:

Samsung SSD 970 EVO - AMD Ryzen 7 1700 Eight-Core

AMD Ryzen 7 1700 Eight-Core

AMD Ryzen 7 1700 Eight-Core - Sapphire AMD Radeon RX

Processor: AMD Ryzen 7 1700 Eight-Core @ 3.00GHz (8 Cores / 16 Threads), Motherboard: ASRock X370 Gaming X (P5.20 BIOS), Chipset: AMD 17h, Memory: 32GB, Disk: Samsung SSD 970 EVO 250GB + 256GB TS256GSSD370 + SATA3 240GB SSD, Graphics: Sapphire AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1284/1750MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: MSI MAG341CQ, Network: Intel I211

OS: Arch rolling, Kernel: 5.11.16-arch1-1 (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.0.3 (LLVM 11.1.0), OpenCL: OpenCL 1.1 Mesa 21.0.3, Vulkan: 1.2.145, Compiler: GCC 10.2.0 + Clang 11.1.0 + LLVM 11.1.0, File-System: ext4, Screen Resolution: 3440x1440

Kernel Notes: Transparent Huge Pages: madvise

Environment Notes: NVM_CD_FLAGS=

Compiler Notes: --disable-libssp --disable-libstdcxx-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-Ito --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 ondemand (Boost: Enabled) - CPU Microcode: 0x8001137

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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbs: Not affected + tsx_async_abort: Not affected

Samsung SSD 970 EVO - AMD Ryzen 7 3700X 8-Core

Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: ASRock X370 Gaming X (P6.00 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: Samsung SSD 970 EVO 250GB + 256GB TS256GSSD370 + SATA3 240GB SSD, Graphics: Sapphire AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1284/1750MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: MSI MAG341CQ, Network: Intel I211

OS: Arch rolling, Kernel: 5.12.1-arch1-1 (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.1.0 (LLVM 11.1.0), OpenCL: OpenCL 2.0 AMD-APP.dbg (3241.0) + OpenCL 1.1 Mesa 21.1.0, Vulkan: 1.2.168, Compiler: GCC 10.2.0 + Clang 11.1.0 + LLVM 11.1.0, File-System: ext4, Screen Resolution: 3440x1440

Kernel Notes: Transparent Huge Pages: madvise

Environment Notes: NVM_CD_FLAGS=

Compiler Notes: --disable-libssp --disable-libstdcxx-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-Ito --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu

Disk Notes: NONE / reltime,rw / Block Size: 4096

Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x8701021

Java Notes: OpenJDK Runtime Environment (build 1.8.0_292-b10)

Python Notes: Python 3.9.4

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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

| | Samsung SSD 970 EVO - AMD Ryzen 7 7 1700 Eight-Core | AMD Ryzen 7 1700 Eight-Core - Sapphire AMD Radeon RX | Samsung SSD 970 EVO - AMD Ryzen 7 3700X 8-Core |
|---|---|---|--|
| IOR - 2MB - /home/kub0x/nvme_disk | 235.57 (MB/s) | | 241.34 100% |
| Normalized | 97.61% | | |
| Standard Deviation | 1% | | |
| IOR - 4MB - /home/kub0x/nvme_disk | 243.12 (MB/s) | | 244.64 100% |
| Normalized | 99.38% | | |
| Standard Deviation | 0.5% | | |
| IOR - 8MB - /home/kub0x/nvme_disk | 249.88 (MB/s) | | 253.42 100% |
| Normalized | 98.6% | | |
| Standard Deviation | 0.3% | | |
| IOR - 16MB - /home/kub0x/nvme_disk | 201.89 (MB/s) | | 119.02 58.95% |
| Normalized | 100% | | |
| Standard Deviation | 4.8% | | |
| Parboil - OpenCL BFS (sec) | 1.726123 | | 1.342122 100% |
| Normalized | 77.75% | | |
| Standard Deviation | 1% | | |
| GNU GMP GMPbench - Total Time (GMPbench Score) | 4542 | | 5994 100% |
| Normalized | 75.77% | | |
| Java SciMark - Composite (Mflops) | 2441 Normalized Standard Deviation | | 3080 100% |
| Java SciMark - Monte Carlo (Mflops) | 1404 Normalized Standard Deviation | | 1692 100% |
| Java SciMark - F.F.T (Mflops) | 1455 Normalized Standard Deviation | | 1826 100% |
| Java SciMark - S.M.M (Mflops) | 2388 Normalized Standard Deviation | | 2786 100% |
| Java SciMark - D.L.M.F (Mflops) | 5580 Normalized Standard Deviation | | 7375 100% |
| Java SciMark - J.S.O.R (Mflops) | 1379 Normalized Standard Deviation | | 1721 100% |
| LuaJIT - Composite (Mflops) | 1267 Normalized Standard Deviation | | 1619 100% |
| LuaJIT - Monte Carlo (Mflops) | 431.46 Normalized Standard Deviation | | 523.42 100% |
| LuaJIT - F.F.T (Mflops) | 255.53 Normalized Standard Deviation | | 285.6 100% |

| | | |
|--|---------------|---------------|
| LuaJIT - S.M.M (Mflops) | 1042 | 1244 |
| Normalized | 83.71% | |
| Standard Deviation | 0.1% | 100% |
| LuaJIT - D.L.M.F (Mflops) | 2987 | 3921 |
| Normalized | 76.17% | 100% |
| Standard Deviation | 1% | |
| LuaJIT - J.S.O.R (Mflops) | 1621 | 2119 |
| Normalized | 76.48% | 100% |
| Standard Deviation | 0% | |
| GnuPG - 2.7.S.F.E (sec) | 63.233 | 52.459 |
| Normalized | 82.96% | 100% |
| Standard Deviation | 2.4% | |
| C-Blosc - blosclz (MB/s) | 8121 | 11808 |
| Normalized | 68.77% | 100% |
| Standard Deviation | 0.8% | |
| Izbench - XZ 0 - Compression (MB/s) | 32 | 39 |
| Normalized | 82.05% | 100% |
| Standard Deviation | 1.8% | |
| Izbench - XZ 0 - Decompression | 97 | 129 |
| Normalized | 75.19% | 100% |
| Standard Deviation | 0% | |
| Izbench - Zstd 1 - Compression (MB/s) | 447 | 564 |
| Normalized | 79.26% | 100% |
| Standard Deviation | 0% | |
| Izbench - Zstd 1 - Decompression | 1397 | 1747 |
| Normalized | 79.97% | 100% |
| Standard Deviation | 0.1% | |
| Izbench - Zstd 8 - Compression (MB/s) | 80 | 110 |
| Normalized | 72.73% | 100% |
| Standard Deviation | 0.7% | |
| Izbench - Zstd 8 - Decompression | 1550 | 1947 |
| Normalized | 79.61% | 100% |
| Standard Deviation | 0.2% | |
| Izbench - Crush 0 - Compression | 72 | 99 |
| Normalized | 72.73% | 100% |
| Standard Deviation | 0% | |
| Izbench - Crush 0 - Decompression (MB/s) | 428 | 527 |
| Normalized | 81.21% | 100% |
| Standard Deviation | 0.1% | |
| Izbench - Brotli 0 - Compression | 410 | 539 |
| Normalized | 76.07% | 100% |
| Standard Deviation | 0.1% | |
| Izbench - Brotli 0 - Decompression (MB/s) | 507 | 646 |
| Normalized | 78.48% | 100% |
| Standard Deviation | 0.1% | |
| Izbench - Brotli 2 - Compression | 171 | 212 |
| Normalized | 80.66% | 100% |
| Standard Deviation | 0% | |
| Izbench - Brotli 2 - Decompression (MB/s) | 590 | 739 |
| Normalized | 79.84% | 100% |
| Standard Deviation | 0.3% | |

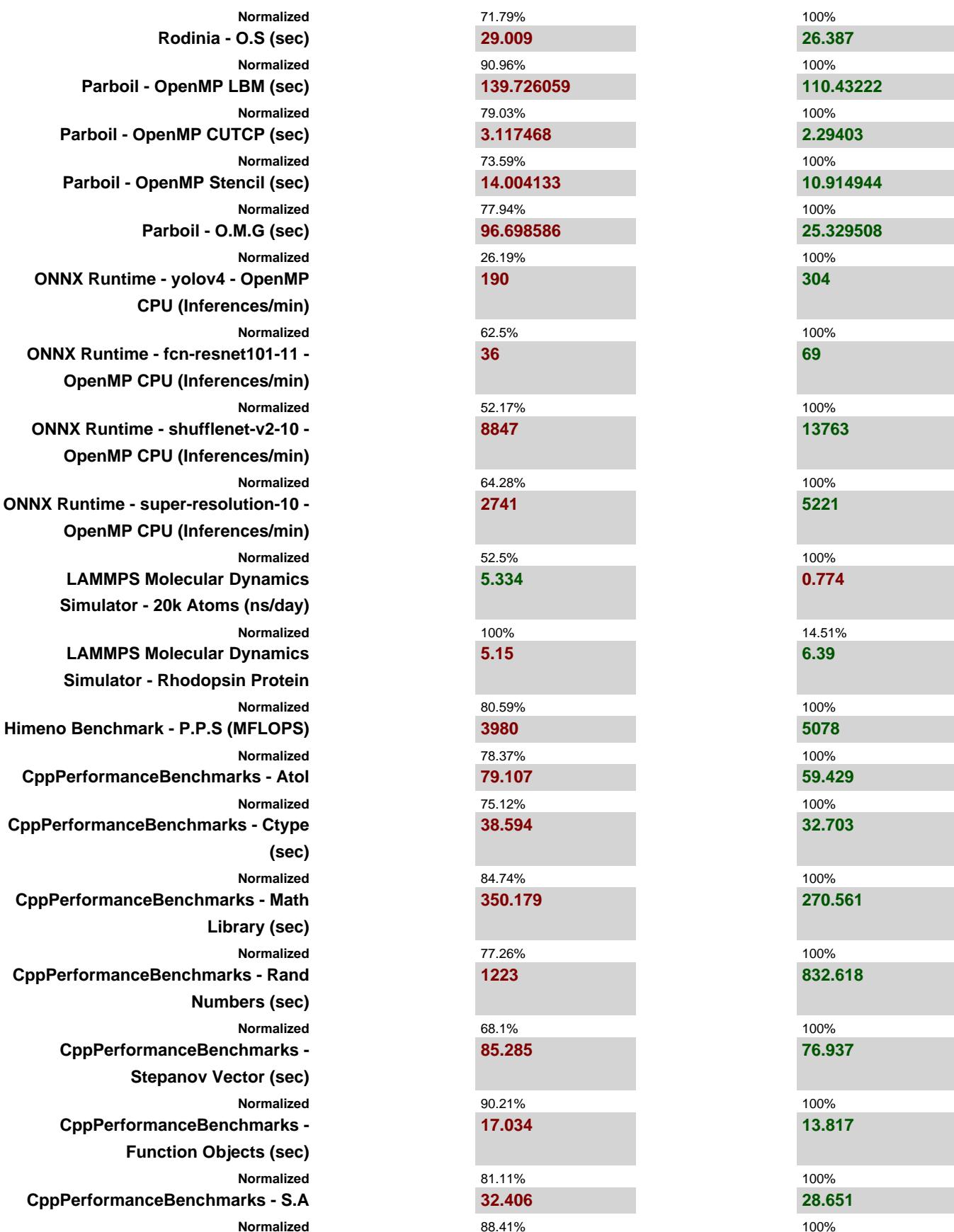
| | | |
|---|--------|-------|
| Izbench - Libdeflate 1 - Compression (MB/s) | 203 | 215 |
| Normalized | 94.42% | |
| Standard Deviation | 2.2% | |
| LZ4 Compression - 1 - Compression Speed (MB/s) | 6589 | 9902 |
| Normalized | 66.54% | |
| Standard Deviation | 0.1% | |
| LZ4 Compression - 1 - D.S (MB/s) | 7381 | 11149 |
| Normalized | 66.2% | |
| Standard Deviation | 1.4% | |
| LZ4 Compression - 3 - Compression Speed (MB/s) | 38.82 | 50.13 |
| Normalized | 77.44% | |
| Standard Deviation | 0.8% | |
| LZ4 Compression - 3 - D.S (MB/s) | 7148 | 10817 |
| Normalized | 66.08% | |
| Standard Deviation | 0.3% | |
| LZ4 Compression - 9 - Compression Speed (MB/s) | 37.83 | 50.77 |
| Normalized | 74.51% | |
| Standard Deviation | 2.1% | |
| LZ4 Compression - 9 - D.S (MB/s) | 7159 | 10739 |
| Normalized | 66.66% | |
| Standard Deviation | 0.1% | |
| Zstd Compression - 3 - Compression Speed (MB/s) | 1760 | 2947 |
| Normalized | 56.5% | |
| Standard Deviation | 1% | |
| Zstd Compression - 3 - D.S (MB/s) | 2755 | |
| Standard Deviation | 0.1% | |
| Zstd Compression - 8 - Compression Speed (MB/s) | 222.0 | 512.7 |
| Normalized | 43.3% | |
| Standard Deviation | 0.8% | |
| Zstd Compression - 8 - D.S (MB/s) | 2843 | 3721 |
| Normalized | 76.41% | |
| Standard Deviation | 0.1% | |
| Zstd Compression - 19 - Compression Speed (MB/s) | 20.9 | 33.9 |
| Normalized | 61.65% | |
| Standard Deviation | 2.2% | |
| Zstd Compression - 19 - D.S (MB/s) | 2597 | 3450 |
| Normalized | 75.28% | |
| Standard Deviation | 0.1% | |
| Zstd Compression - 3, Long Mode - Compression Speed (MB/s) | 777.2 | 1006 |
| Normalized | 77.1% | |
| Standard Deviation | 0.5% | |
| Zstd Compression - 3, Long Mode - D.S (MB/s) | 2920 | |
| Standard Deviation | 0.1% | |

| | | | |
|--|--------------------------|------------|------------|
| Zstd Compression - 8, Long Mode - | Compression Speed (MB/s) | 291.6 | 626.5 |
| Normalized | | 46.54% | 100% |
| Standard Deviation | | 0.8% | |
| Zstd Compression - 8, Long Mode - | D.S (MB/s) | 3025 | 3986 |
| Normalized | | 75.88% | 100% |
| Standard Deviation | | 0.1% | |
| Zstd Compression - 19, Long Mode - | Compression Speed (MB/s) | 18.2 | 29.9 |
| Normalized | | 60.87% | 100% |
| Standard Deviation | | 2.5% | |
| Zstd Compression - 19, Long Mode - | D.S (MB/s) | 2576 | 3490 |
| Normalized | | 73.81% | 100% |
| Standard Deviation | | 0.1% | |
| 7-Zip Compression - C.S.T (MIPS) | | 34130 | 58773 |
| Normalized | | 58.07% | 100% |
| Standard Deviation | | 1.5% | |
| Parallel BZIP2 Compression - 2.F.C | (sec) | 4.772 | 3.255 |
| Normalized | | 68.21% | 100% |
| Standard Deviation | | 0.8% | |
| Gzip Compression - L.S.T.A.T.t.g (sec) | | 46.749 | 38.781 |
| Normalized | | 82.96% | 100% |
| Standard Deviation | | 0.7% | |
| XZ Compression - C.u.1.0.3.s.i.i.C.L.9 | (sec) | 47.458 | 28.747 |
| Normalized | | 60.57% | 100% |
| Standard Deviation | | 0.4% | |
| System GZIP Decompression (sec) | | 3.395 | 2.768 |
| Normalized | | 81.53% | 100% |
| Standard Deviation | | 0% | |
| System XZ Decompression (sec) | | 4.450 | 3.265 |
| Normalized | | 73.37% | 100% |
| Standard Deviation | | 0% | |
| System ZLIB Decompression (ms) | | 1948 | 1589 |
| Normalized | | 81.58% | 100% |
| Standard Deviation | | 0.1% | |
| RAR Compression - L.S.T.A.T.R (sec) | | 71.997 | 50.211 |
| Normalized | | 69.74% | 100% |
| Standard Deviation | | 2.4% | |
| Crypto++ - All Algorithms (MiB/s) | | 1406 | 1763 |
| Normalized | | 79.73% | 100% |
| Crypto++ - Keyed Algorithms (MiB/s) | | 554.352098 | 686.422045 |
| Normalized | | 80.76% | 100% |
| Crypto++ - Unkeyed Algorithms | | 321.694665 | 385.11459 |
| Normalized | | 83.53% | 100% |
| Crypto++ - I.E.C.P.K.A (MiB/s) | | 4135 | 5398 |
| Normalized | | 76.61% | 100% |
| BLAKE2 (Cycles/Byte) | | 5.11 | 5.12 |
| Normalized | | 100% | 99.8% |
| Xmrig - Monero - 1M (H/s) | | 1901 | 4577 |
| Normalized | | 41.53% | 100% |

| | | |
|--|----------------|----------------|
| Xmrig - Wownero - 1M (H/s) | 3158 | 8070 |
| Normalized | 39.13% | 100% |
| Bork File Encrypter - F.E.T (sec) | 10.369 | 8.798 |
| Normalized | 84.85% | 100% |
| ArrayFire - BLAS CPU (GFLOPS) | 211.291 | 245.975 |
| Normalized | 85.9% | 100% |
| ArrayFire - BLAS OpenCL (GFLOPS) | 1428 | 2170 |
| Normalized | 65.84% | 100% |
| ArrayFire - C.G.C (ms) | 35.52 | 26.03 |
| Normalized | 73.28% | 100% |
| Botan - KASUMI (MiB/s) | 80.907 | 96.459 |
| Normalized | 83.88% | 100% |
| Botan - KASUMI - Decrypt (MiB/s) | 78.311 | 94.441 |
| Normalized | 82.92% | 100% |
| Botan - AES-256 (MiB/s) | 4944 | 5783 |
| Normalized | 85.49% | 100% |
| Botan - AES-256 - Decrypt (MiB/s) | 4951 | 5785 |
| Normalized | 85.58% | 100% |
| Botan - Twofish (MiB/s) | 320.888 | 388.861 |
| Normalized | 82.52% | 100% |
| Botan - Twofish - Decrypt (MiB/s) | 324.035 | 388.535 |
| Normalized | 83.4% | 100% |
| Botan - Blowfish (MiB/s) | 385.235 | 474.68 |
| Normalized | 81.16% | 100% |
| Botan - Blowfish - Decrypt (MiB/s) | 389.487 | 478.174 |
| Normalized | 81.45% | 100% |
| Botan - CAST-256 (MiB/s) | 126.41 | 151.304 |
| Normalized | 83.55% | 100% |
| Botan - CAST-256 - Decrypt (MiB/s) | 126.47 | 151.292 |
| Normalized | 83.59% | 100% |
| Botan - ChaCha20Poly1305 (MiB/s) | 441.36 | 793.227 |
| Normalized | 55.64% | 100% |
| Botan - ChaCha20Poly1305 - Decrypt (MiB/s) | 436.821 | 794.331 |
| Normalized | 54.99% | 100% |
| Aircrack-ng (k/s) | 13799 | 30678 |
| Normalized | 44.98% | 100% |
| Cpuminer-Opt - Magi (kH/s) | 320 | 420.84 |
| Normalized | 76.04% | 100% |
| Cpuminer-Opt - x25x (kH/s) | 242.46 | 278.1 |
| Normalized | 87.18% | 100% |
| Cpuminer-Opt - Deepcoin (kH/s) | 4573 | 7668 |
| Normalized | 59.63% | 100% |
| Cpuminer-Opt - Ringcoin (kH/s) | 1655 | 1838 |
| Normalized | 90.07% | 100% |
| Cpuminer-Opt - Blake-2 S (kH/s) | 210610 | 521760 |
| Normalized | 40.37% | 100% |
| Cpuminer-Opt - Garlicoin (kH/s) | 1190 | 1826 |
| Normalized | 65.17% | 100% |
| Cpuminer-Opt - Skeincoin (kH/s) | 38070 | 79790 |
| Normalized | 47.71% | 100% |
| Cpuminer-Opt - Myriad-Groestl (kH/s) | 11460 | 14720 |
| Normalized | 77.85% | 100% |

| | | |
|---|---------|---------|
| Cpuminer-Opt - LBC, LBRY Credits (kH/s) | 10900 | 23390 |
| Normalized | 46.6% | 100% |
| Cpuminer-Opt - Q.S.2.P (kH/s) | 63800 | 69330 |
| Normalized | 92.02% | 100% |
| Cpuminer-Opt - T.S.2.O (kH/s) | 87170 | 85300 |
| Normalized | 100% | 97.85% |
| Cryptsetup - PBKDF2-sha512 (Iterations/sec) | 1367113 | 1889326 |
| Normalized | 72.36% | 100% |
| Cryptsetup - PBKDF2-whirlpool (Iterations/sec) | 584490 | 757641 |
| Normalized | 77.15% | 100% |
| Cryptsetup - A.X.2.E (MiB/s) | 2490 | 3434 |
| Normalized | 72.51% | 100% |
| Cryptsetup - A.X.2.D (MiB/s) | 2500 | 3360 |
| Normalized | 74.4% | 100% |
| Cryptsetup - S.X.2.E (MiB/s) | 351.1 | 663.4 |
| Normalized | 52.92% | 100% |
| Cryptsetup - S.X.2.D (MiB/s) | 348.8 | 656.6 |
| Normalized | 53.12% | 100% |
| Cryptsetup - T.X.2.E (MiB/s) | 360.3 | 404.2 |
| Normalized | 89.14% | 100% |
| Cryptsetup - A.X.5.E (MiB/s) | 2142 | 2891 |
| Normalized | 74.1% | 100% |
| Cryptsetup - A.X.5.D (MiB/s) | 2128 | 2887 |
| Normalized | 73.69% | 100% |
| Cryptsetup - S.X.5.E (MiB/s) | 351.5 | 668 |
| Normalized | 52.62% | 100% |
| Cryptsetup - S.X.5.D (MiB/s) | 348.3 | 656.8 |
| Normalized | 53.03% | 100% |
| Cryptsetup - T.X.5.E (MiB/s) | 359.9 | 406.2 |
| Normalized | 88.6% | 100% |
| Cryptsetup - T.X.5.D (MiB/s) | 359.2 | 405.4 |
| Normalized | 88.6% | 100% |
| CacheBench - Read (MB/s) | 2781 | 3347 |
| Normalized | 83.09% | 100% |
| CacheBench - Write (MB/s) | 24462 | 31960 |
| Normalized | 76.54% | 100% |
| CacheBench - R.M.W (MB/s) | 48450 | 62162 |
| Normalized | 77.94% | 100% |
| RAMspeed SMP - Add - Integer (MB/s) | 20912 | 28965 |
| Normalized | 72.2% | 100% |
| RAMspeed SMP - Copy - Integer | 18452 | 25494 |
| Normalized | 72.38% | 100% |
| RAMspeed SMP - Scale - Integer | 17283 | 25511 |
| Normalized | 67.75% | 100% |
| RAMspeed SMP - Triad - Integer | 17197 | 28973 |
| Normalized | 59.36% | 100% |
| RAMspeed SMP - Average - Integer (MB/s) | 18659 | 27194 |
| Normalized | 68.61% | 100% |

| | | | |
|---|--------|----------------|----------------|
| RAMspeed SMP - Add - Floating Point (MB/s) | | 21043 | 28789 |
| Normalized | 73.09% | 100% | |
| RAMspeed SMP - Copy - Floating Point (MB/s) | | 18531 | 25446 |
| Normalized | 72.83% | 100% | |
| RAMspeed SMP - Scale - Floating Point (MB/s) | | 17884 | 25496 |
| Normalized | 70.15% | 100% | |
| RAMspeed SMP - Triad - Floating Point (MB/s) | | 20414 | 28767 |
| Normalized | 70.96% | 100% | |
| RAMspeed SMP - Average - Floating Point (MB/s) | | 19458 | 27115 |
| Normalized | 71.76% | 100% | |
| Tinymembench - Standard Memcpy (MB/s) | | 12766 | 18624 |
| Normalized | 68.55% | 100% | |
| Tinymembench - Standard Memset (MB/s) | | 10197 | 16331 |
| Normalized | 62.44% | 100% | |
| MBW - Memory Copy - 128 MiB | | 12035 | 19246 |
| Normalized | 62.53% | 100% | |
| MBW - Memory Copy - 512 MiB | | 12301 | 18853 |
| Normalized | 65.25% | 100% | |
| MBW - Memory Copy - 1024 MiB | | 12373 | 18716 |
| Normalized | 66.11% | 100% | |
| MBW - Memory Copy - 4096 MiB | | 12171 | 18726 |
| Normalized | 65% | 100% | |
| MBW - Memory Copy - 8192 MiB | | 12528 | 18761 |
| Normalized | 66.78% | 100% | |
| MBW - M.C.F.B.S - 128 MiB (MiB/s) | | 6350 | 10016 |
| Normalized | 63.4% | 100% | |
| MBW - M.C.F.B.S - 512 MiB (MiB/s) | | 7058 | 10374 |
| Normalized | 68.04% | 100% | |
| MBW - M.C.F.B.S - 1024 MiB (MiB/s) | | 7070 | 10425 |
| Normalized | 67.82% | 100% | |
| MBW - M.C.F.B.S - 4096 MiB (MiB/s) | | 7254 | 10377 |
| Normalized | 69.9% | 100% | |
| MBW - M.C.F.B.S - 8192 MiB (MiB/s) | | 7313 | 10375 |
| Normalized | 70.49% | 100% | |
| t-test1 - 1 (sec) | | 23.228 | 13.608 |
| Normalized | 58.58% | 100% | |
| t-test1 - 2 (sec) | | 7.62 | 4.87 |
| Normalized | 63.91% | 100% | |
| Rodinia - OpenMP LavaMD (sec) | | 273.966 | 241.499 |
| Normalized | 88.15% | 100% | |
| Rodinia - OpenMP HotSpot3D (sec) | | 113.123 | 86.219 |
| Normalized | 76.22% | 100% | |
| Rodinia - OpenMP Leukocyte (sec) | | 146.716 | 123.994 |
| Normalized | 84.51% | 100% | |
| Rodinia - OpenMP CFD Solver (sec) | | 30.237 | 21.708 |



NGINX Benchmark - S.W.P.S

(Req/s/sec)

20958

Normalized

Cryptsetup - T.X.2.D (MiB/s)

59.68%

35114

100%

405.1

IOR 3.3.0

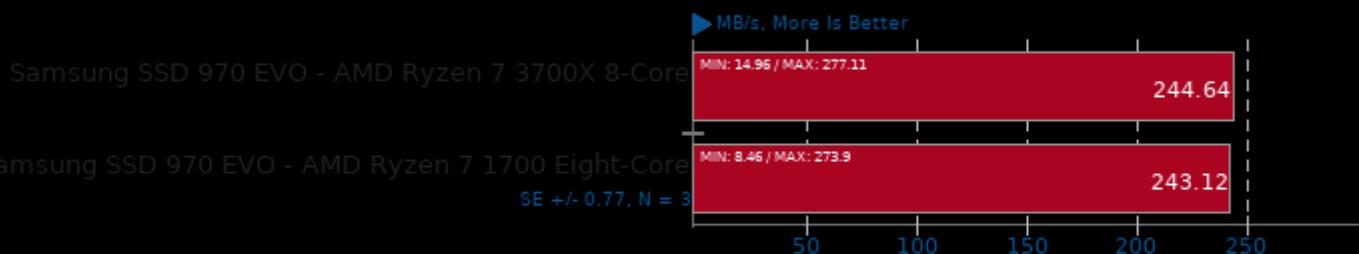
Block Size: 2MB - Disk Target: /home/kub0x/nvme_disk



1. (CC) gcc options: -O2 -lm -pthread -lmpi

IOR 3.3.0

Block Size: 4MB - Disk Target: /home/kub0x/nvme_disk



1. (CC) gcc options: -O2 -lm -pthread -lmpi

IOR 3.3.0

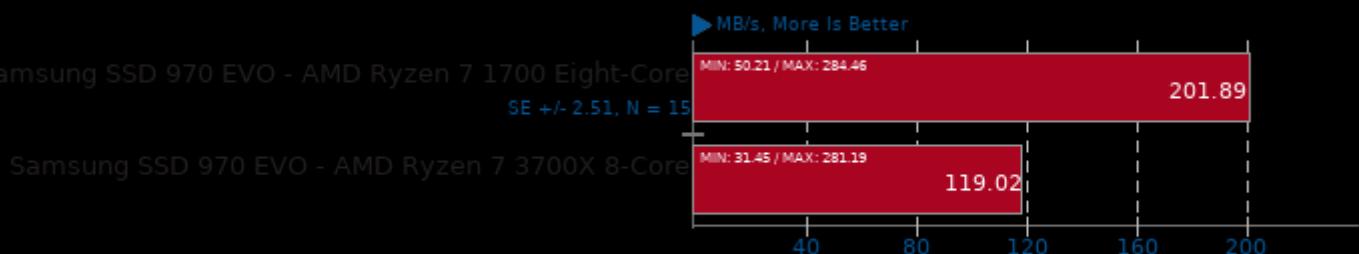
Block Size: 8MB - Disk Target: /home/kub0x/nvme_disk



1. (CC) gcc options: -O2 -lm -pthread -lmpi

IOR 3.3.0

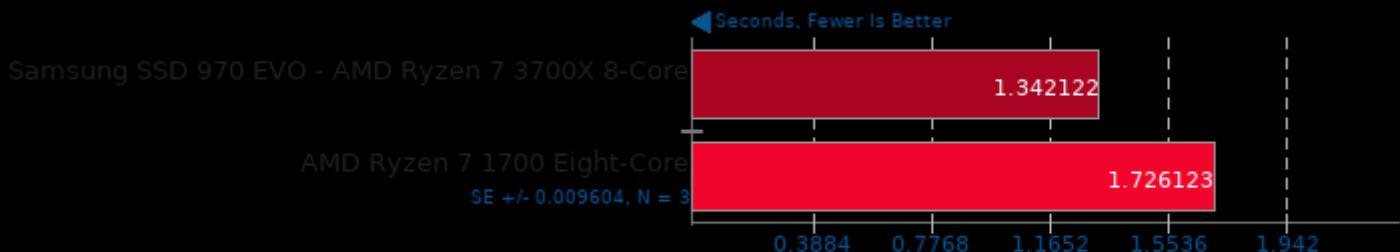
Block Size: 16MB - Disk Target: /home/kub0x/nvme_disk



1. (CC) gcc options: -O2 -lm -pthread -lmpi

Parboil 2.5

Test: OpenCL BFS



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

GNU GMP GMPbench 6.2.1

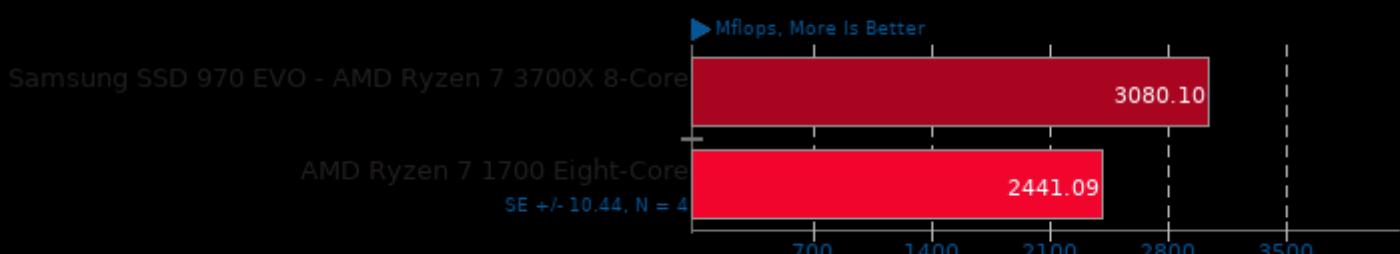
Total Time



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

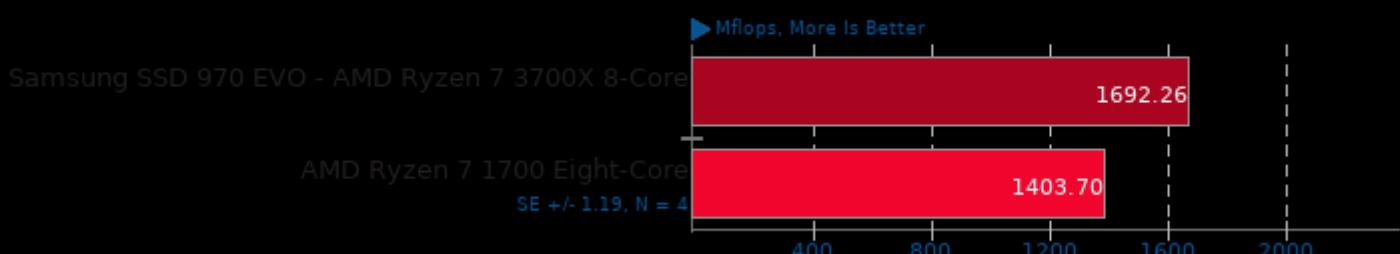
Java SciMark 2.0

Computational Test: Composite



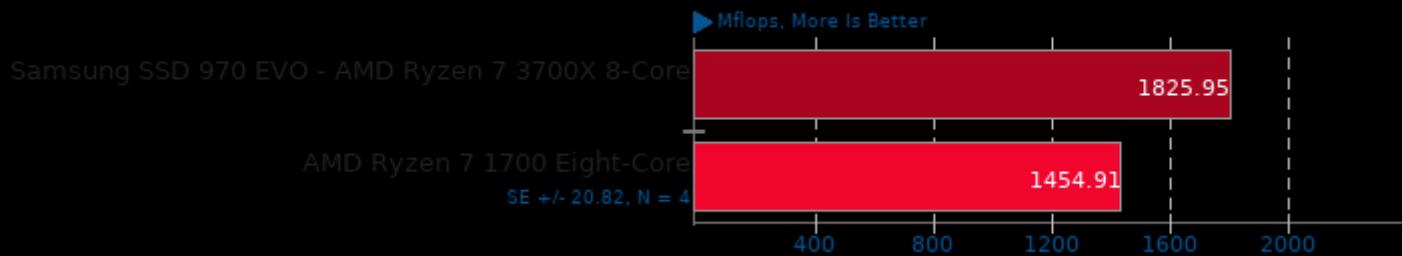
Java SciMark 2.0

Computational Test: Monte Carlo



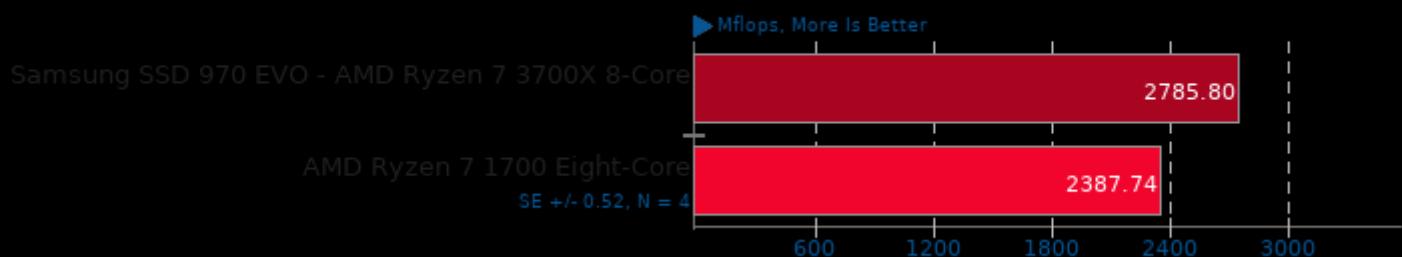
Java SciMark 2.0

Computational Test: Fast Fourier Transform



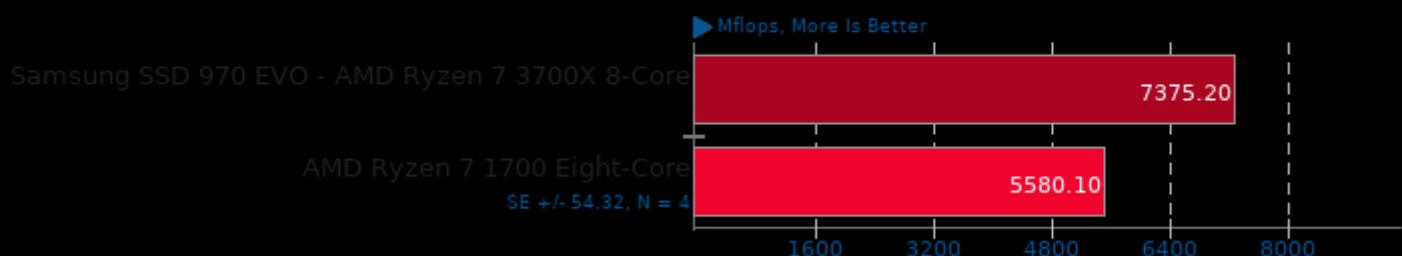
Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



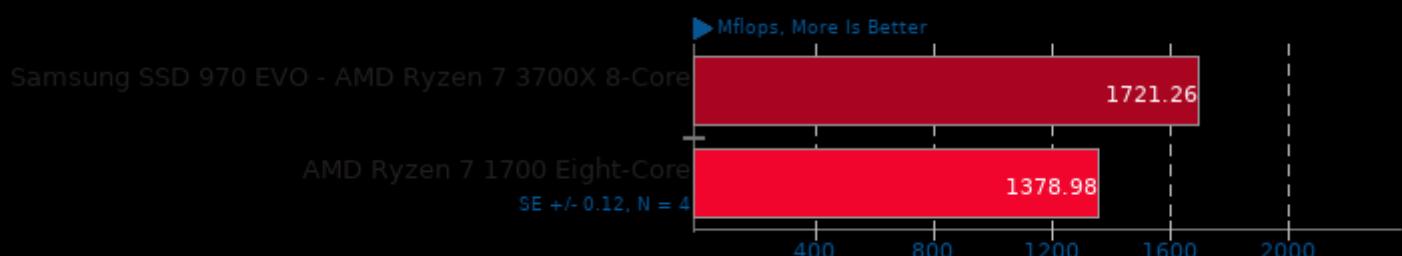
Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



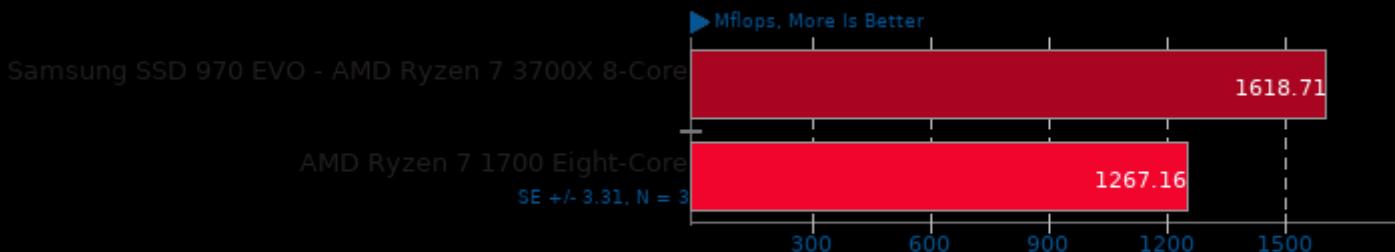
Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



LuaJIT 2.1-git

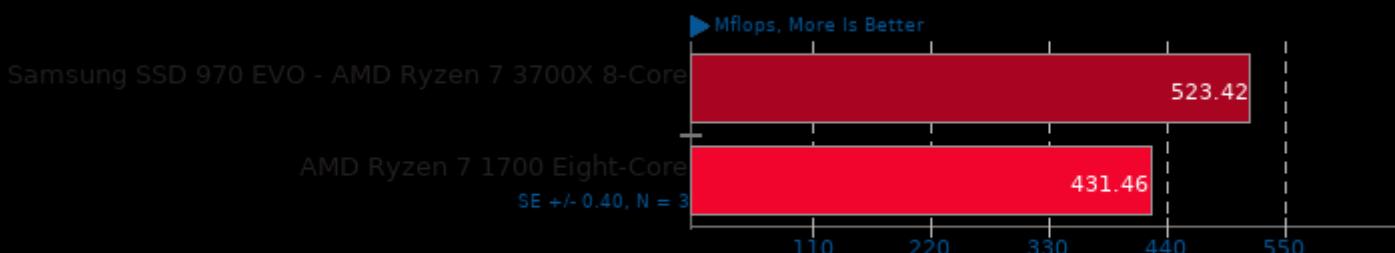
Test: Composite



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

LuaJIT 2.1-git

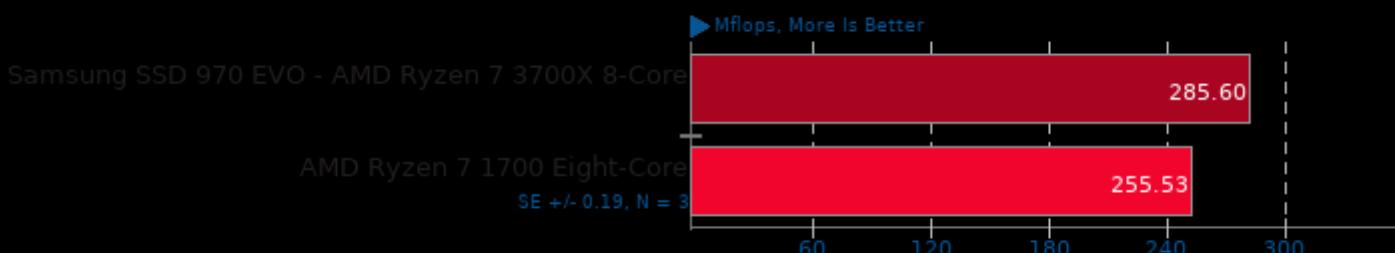
Test: Monte Carlo



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

LuaJIT 2.1-git

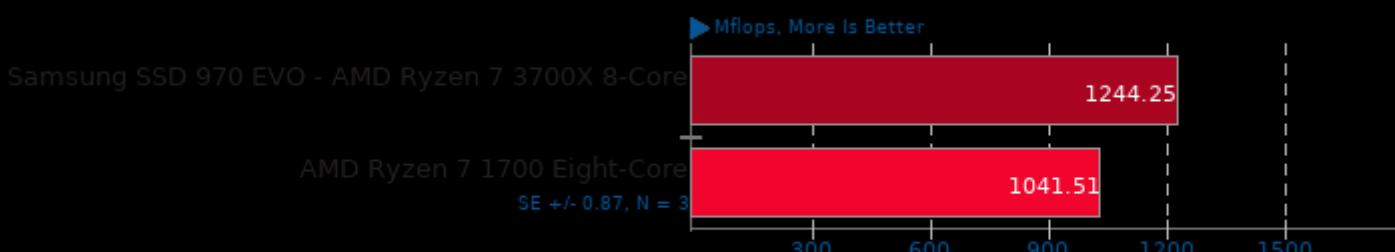
Test: Fast Fourier Transform



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

LuaJIT 2.1-git

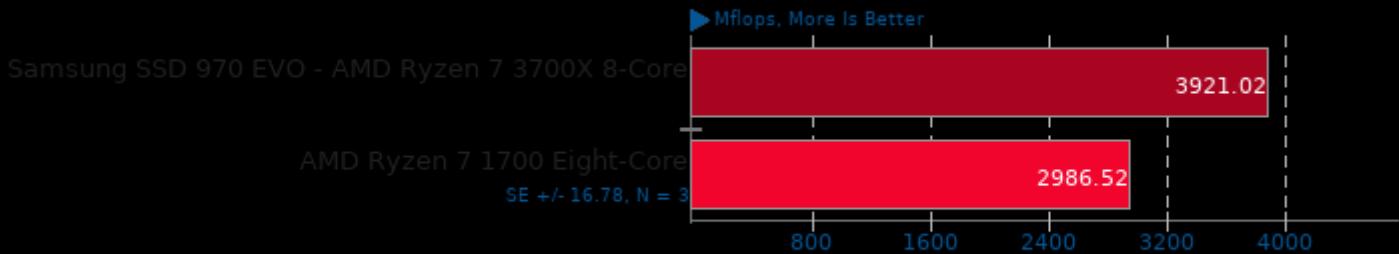
Test: Sparse Matrix Multiply



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

LuaJIT 2.1-git

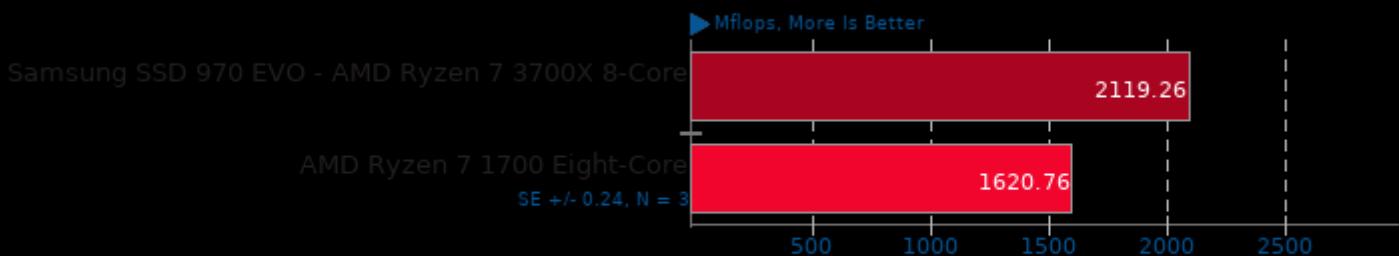
Test: Dense LU Matrix Factorization



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

LuaJIT 2.1-git

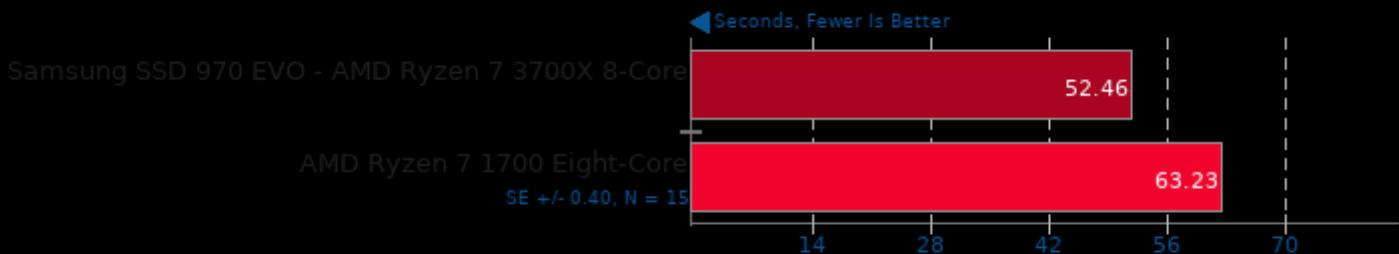
Test: Jacobi Successive Over-Relaxation



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

GnuPG 2.2.27

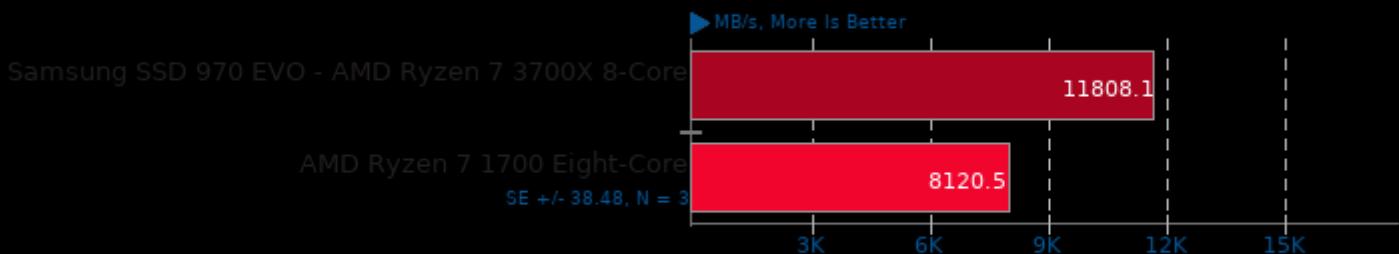
2.7GB Sample File Encryption



1. (CC) gcc options: -O2

C-Blosc 2.0 Beta 5

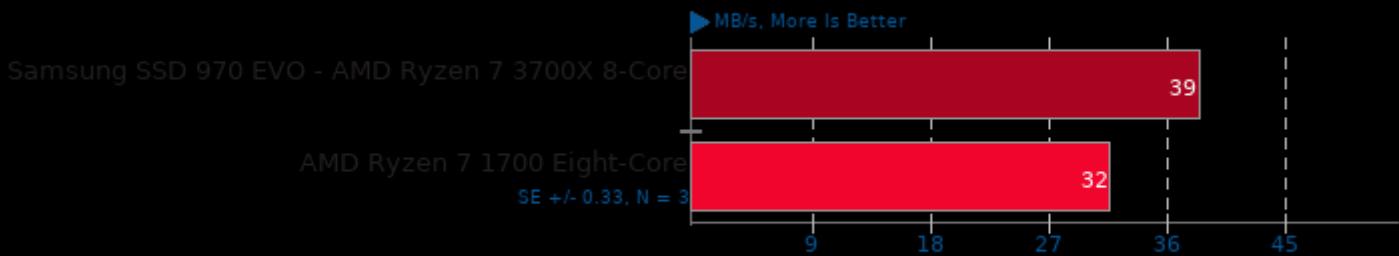
Compressor: blosclz



1. (CXX) g++ options: -rdynamic

Izbench 1.8

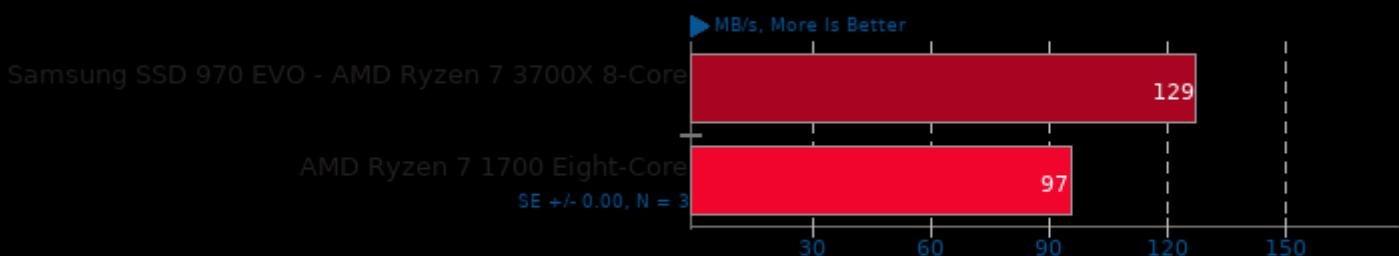
Test: XZ 0 - Process: Compression



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

Izbench 1.8

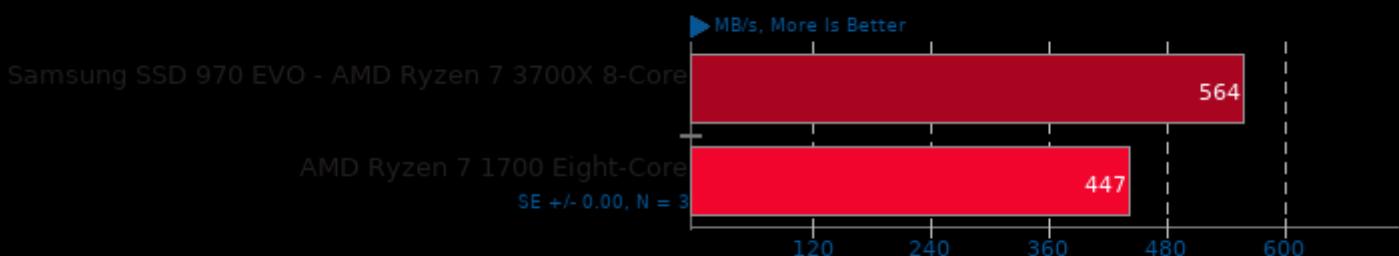
Test: XZ 0 - Process: Decompression



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

Izbench 1.8

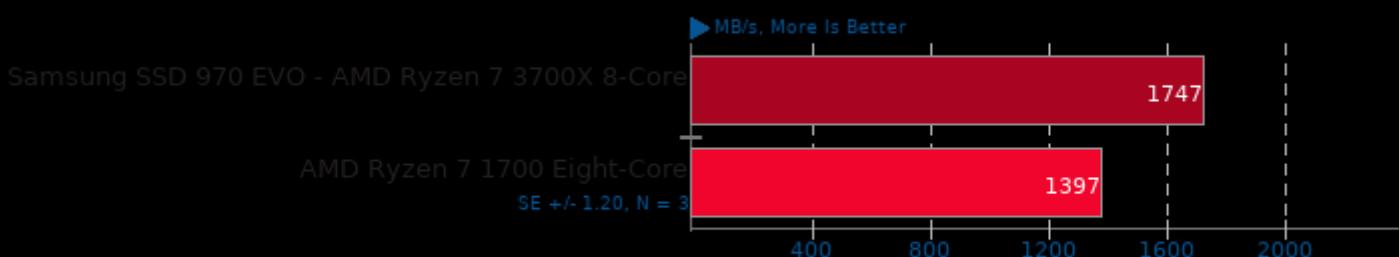
Test: Zstd 1 - Process: Compression



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

Izbench 1.8

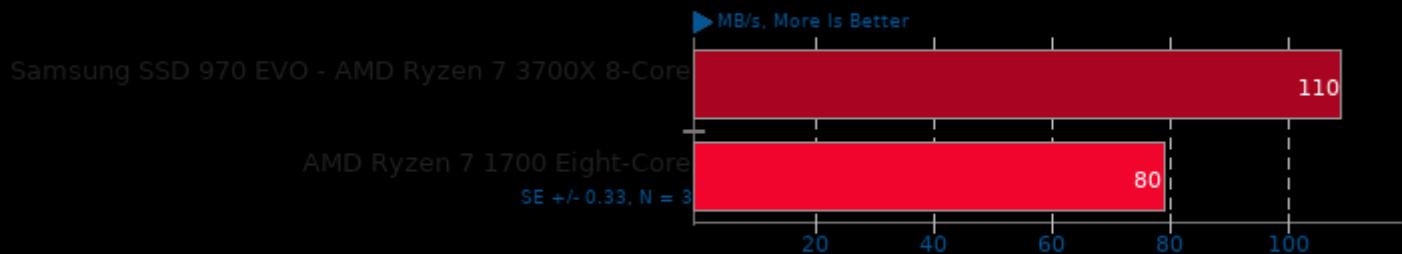
Test: Zstd 1 - Process: Decompression



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

Izbench 1.8

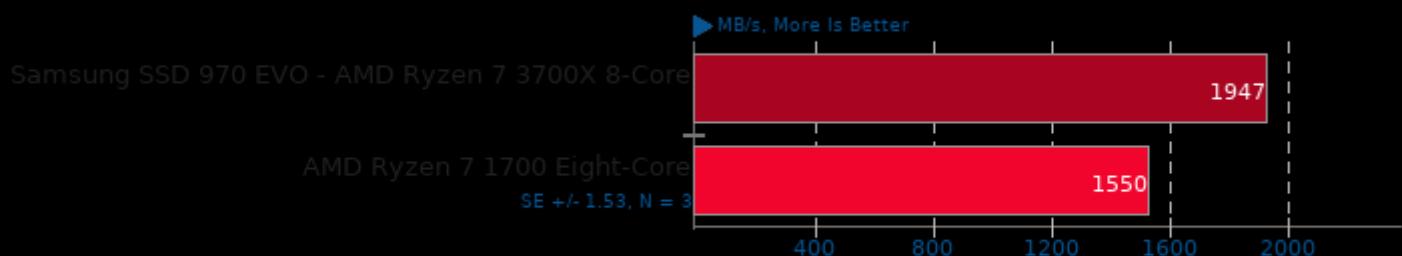
Test: Zstd 8 - Process: Compression



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

Izbench 1.8

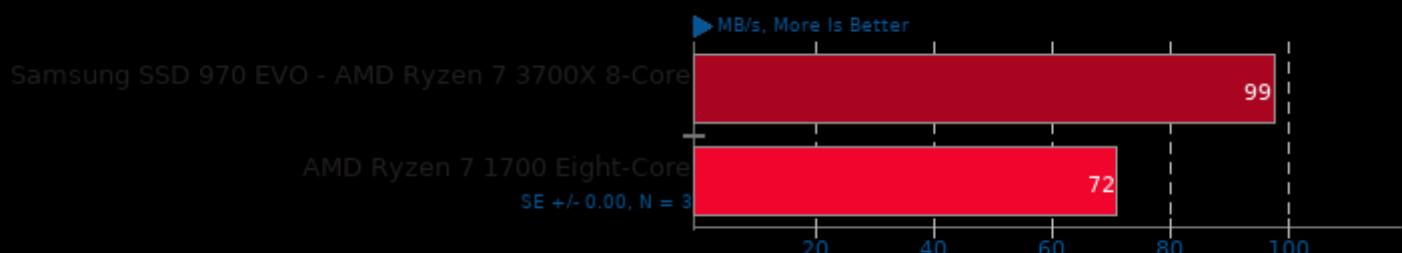
Test: Zstd 8 - Process: Decompression



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

Izbench 1.8

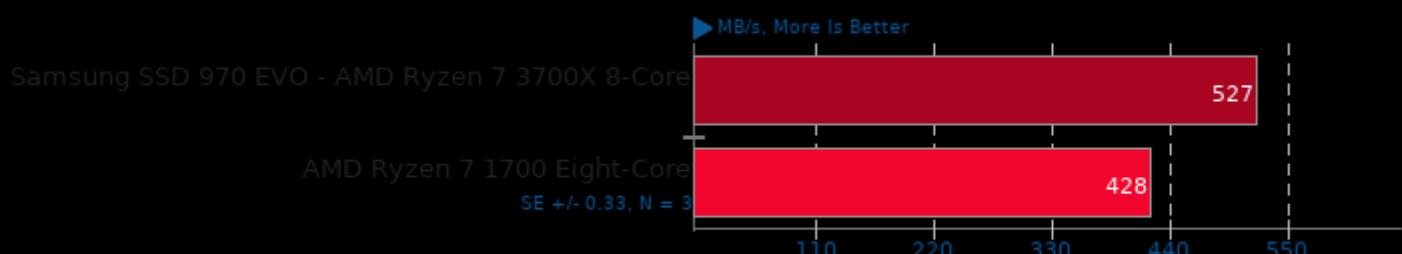
Test: Crush 0 - Process: Compression



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

Izbench 1.8

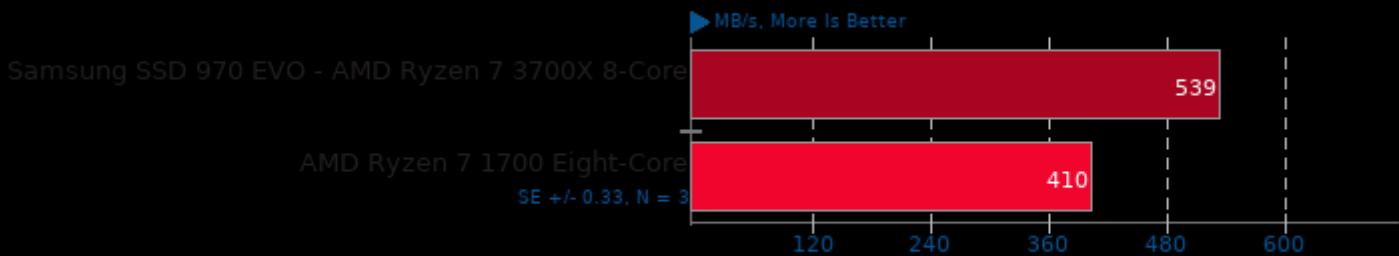
Test: Crush 0 - Process: Decompression



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

Izbench 1.8

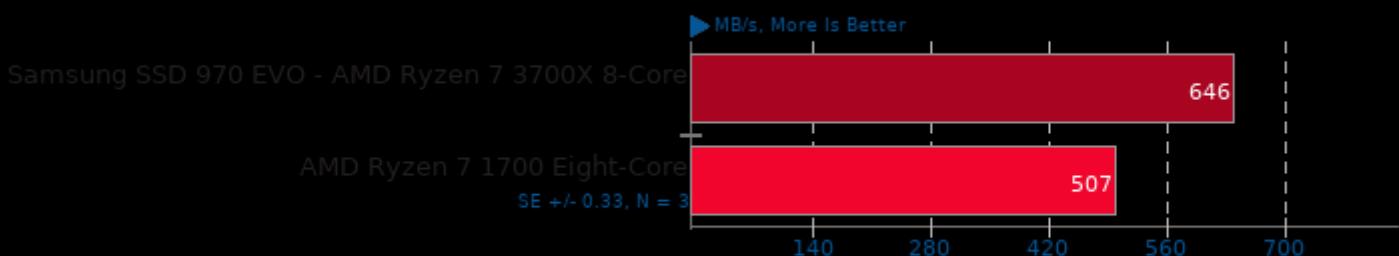
Test: Brotli 0 - Process: Compression



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

Izbench 1.8

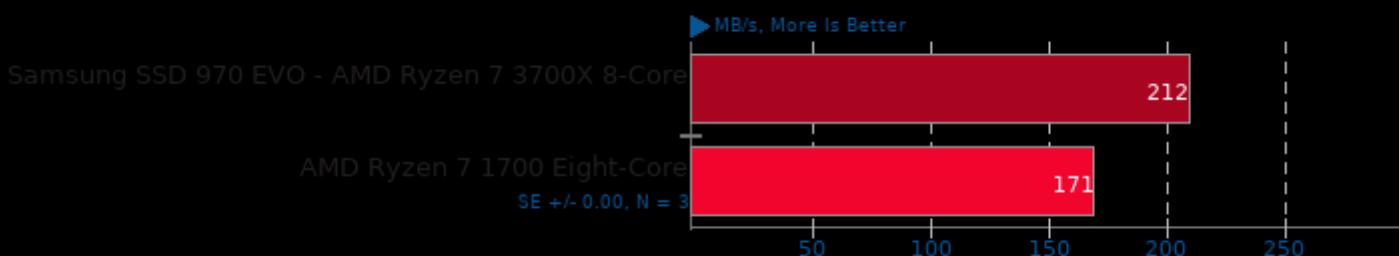
Test: Brotli 0 - Process: Decompression



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

Izbench 1.8

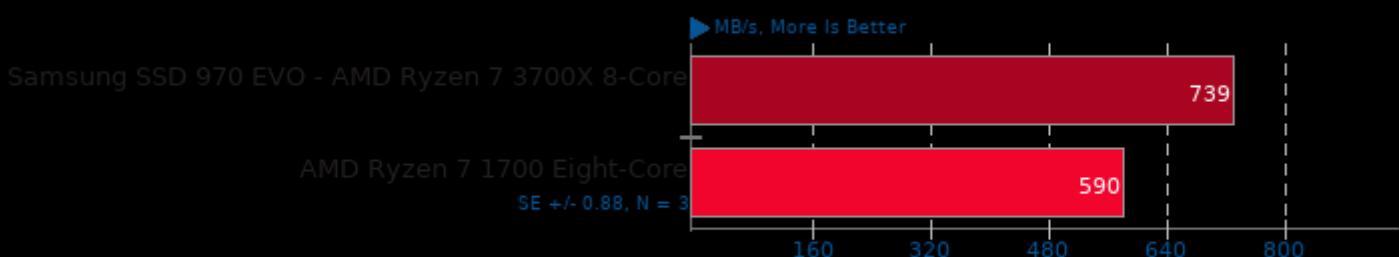
Test: Brotli 2 - Process: Compression



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

Izbench 1.8

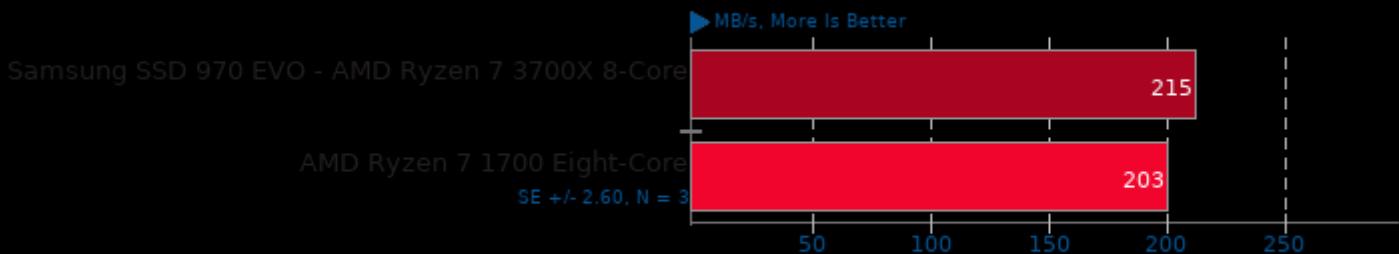
Test: Brotli 2 - Process: Decompression



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

Izbench 1.8

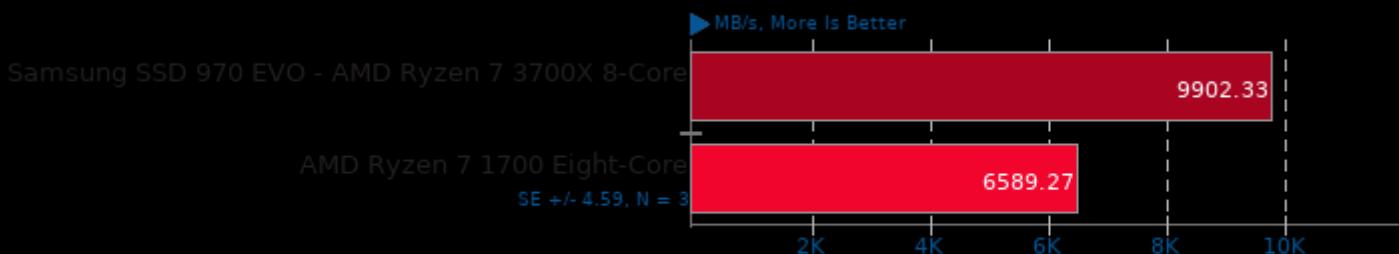
Test: Libdeflate 1 - Process: Compression



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

LZ4 Compression 1.9.3

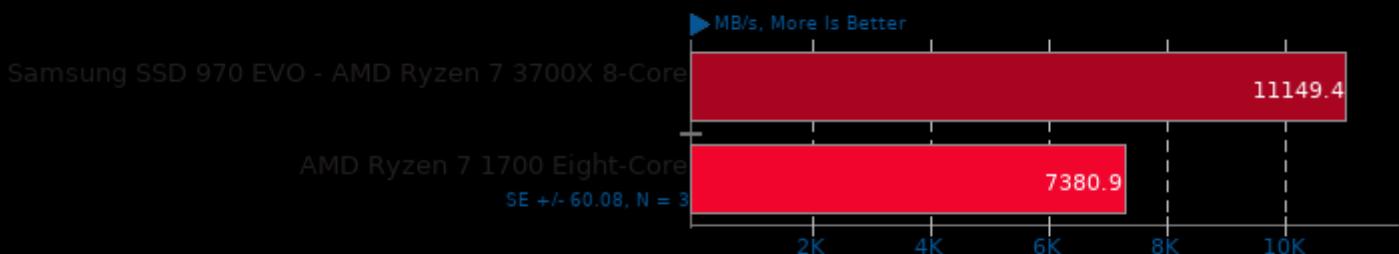
Compression Level: 1 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

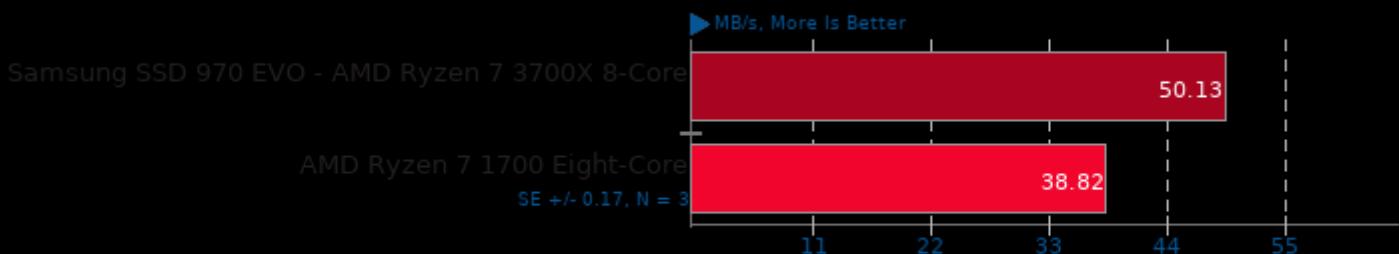
Compression Level: 1 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

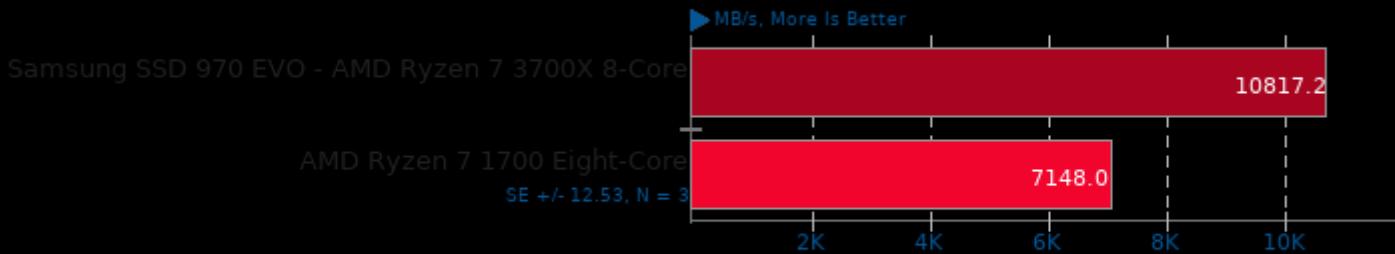
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

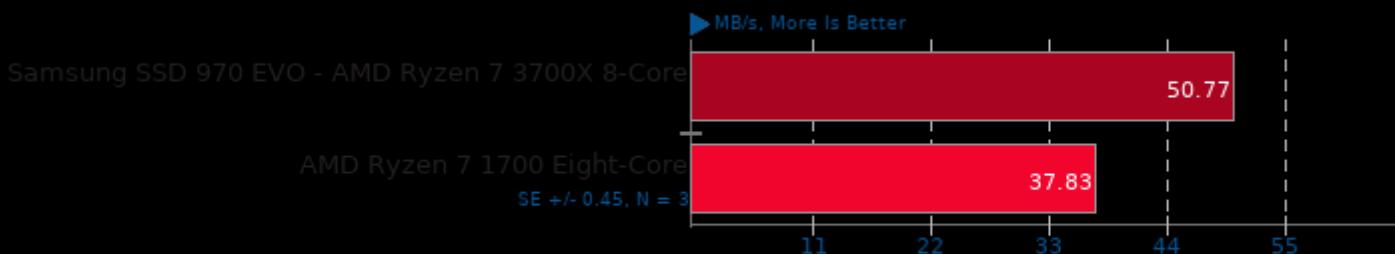
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

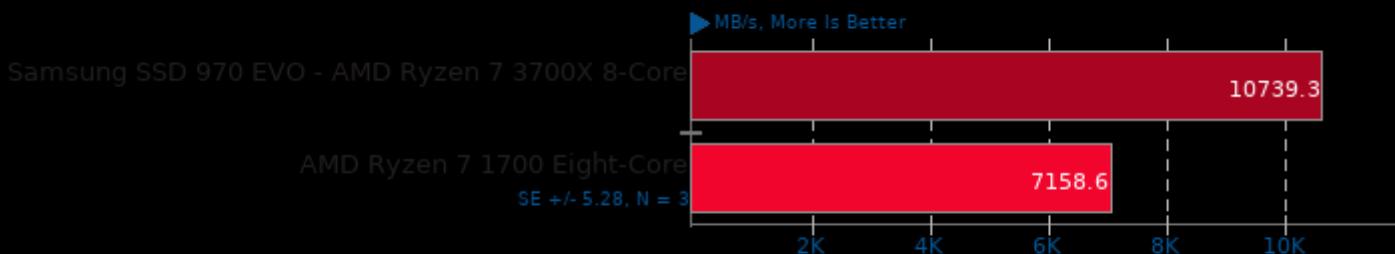
Compression Level: 9 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

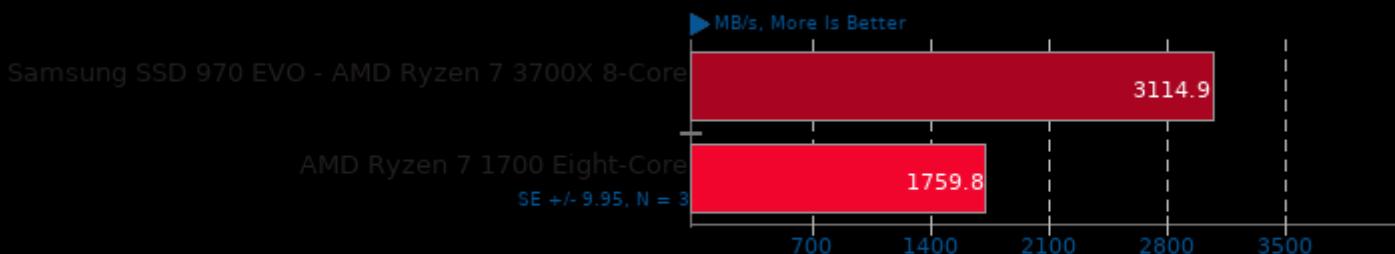
Compression Level: 9 - Decompression Speed



1. (CC) gcc options: -O3

Zstd Compression 1.4.9

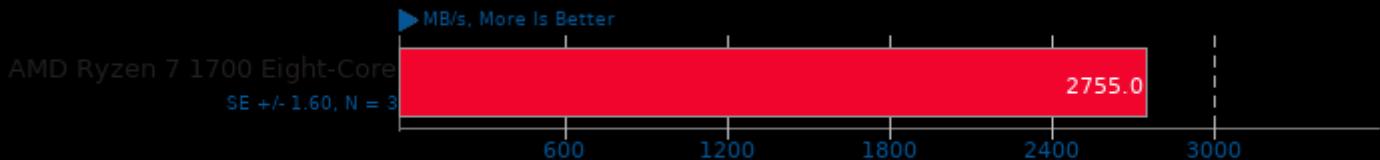
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -lz4

Zstd Compression 1.4.9

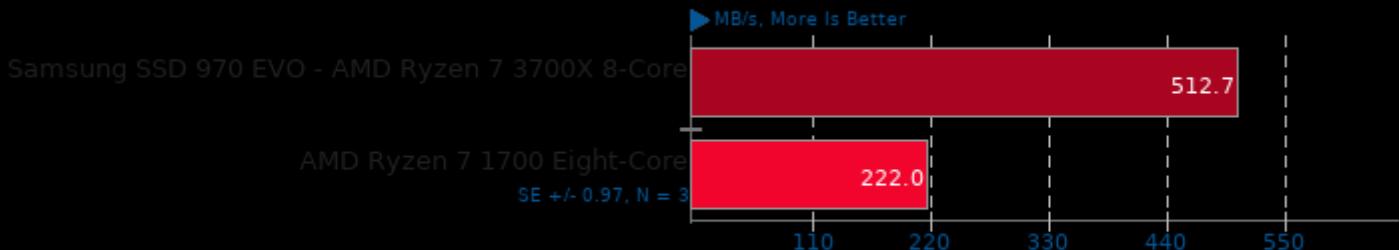
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

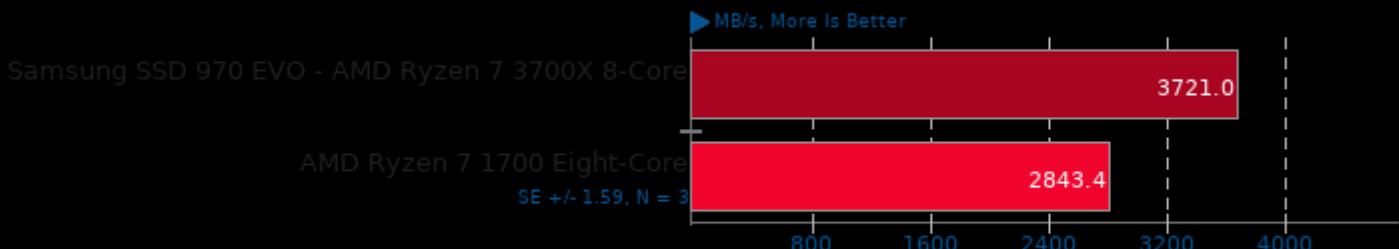
Compression Level: 8 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

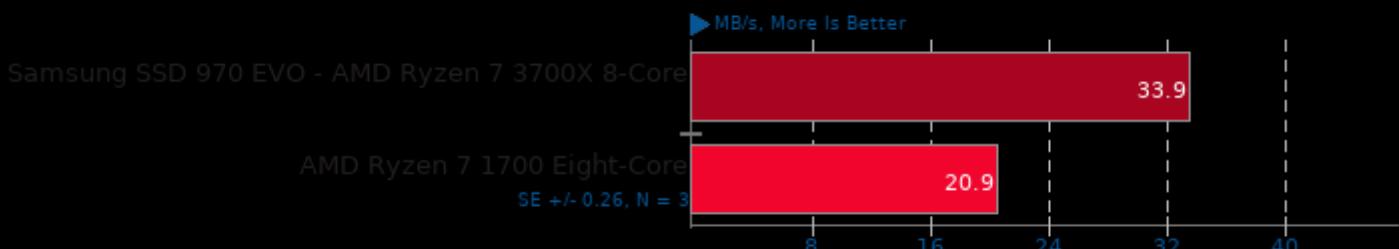
Compression Level: 8 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

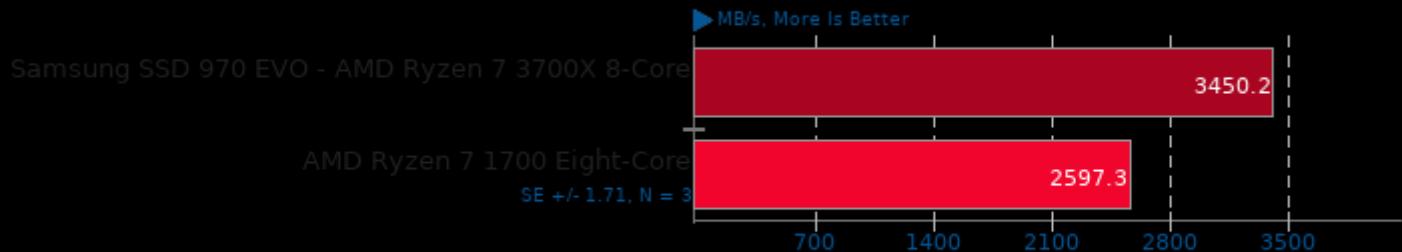
Compression Level: 19 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

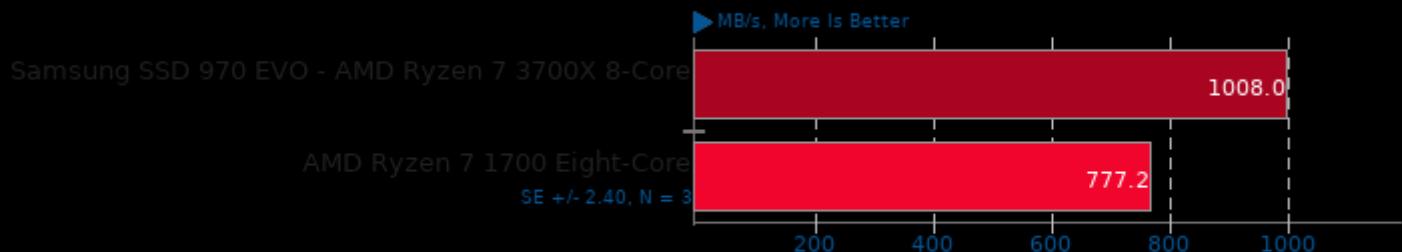
Compression Level: 19 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

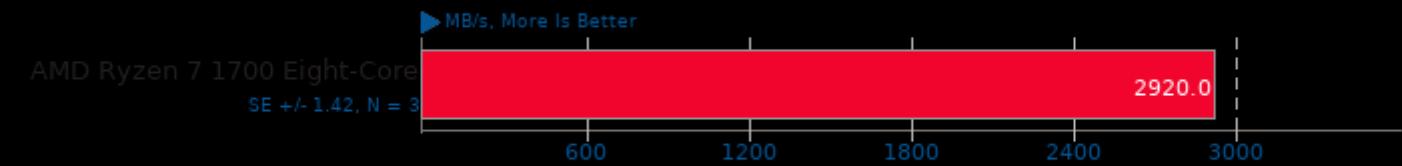
Compression Level: 3, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

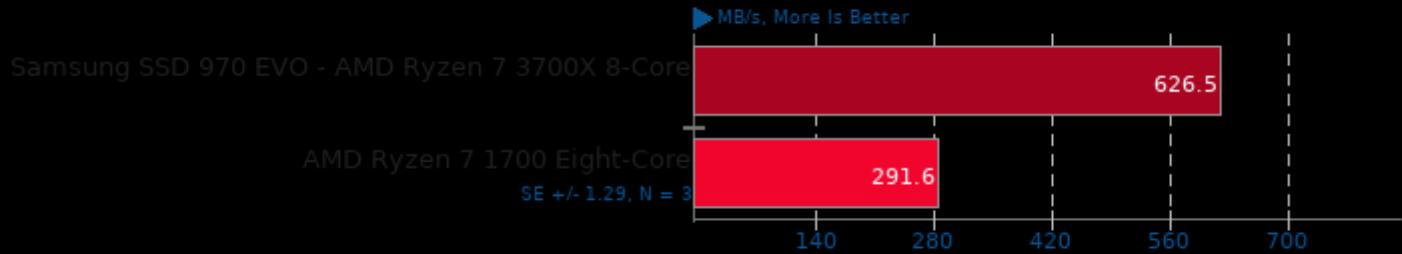
Compression Level: 3, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

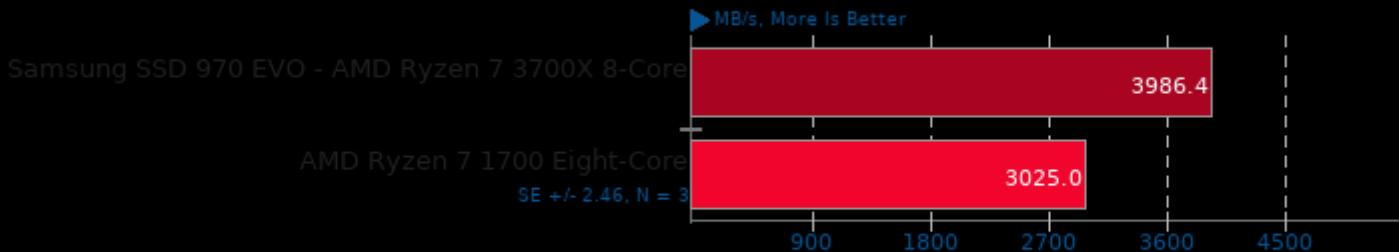
Compression Level: 8, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -llz4

Zstd Compression 1.4.9

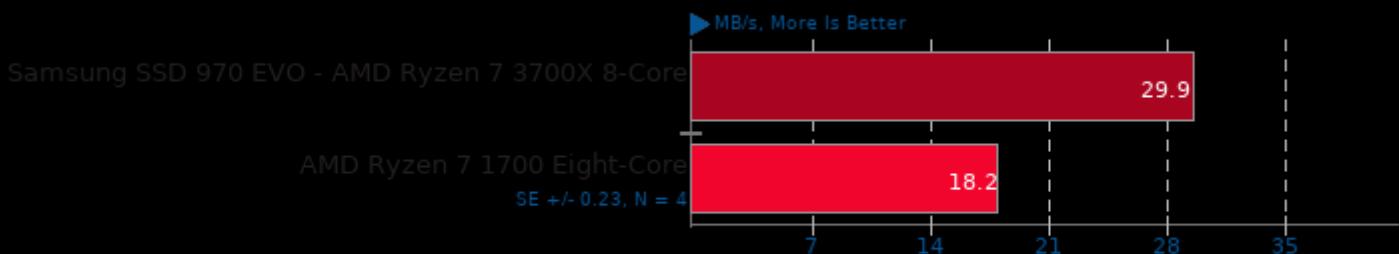
Compression Level: 8, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -lz4

Zstd Compression 1.4.9

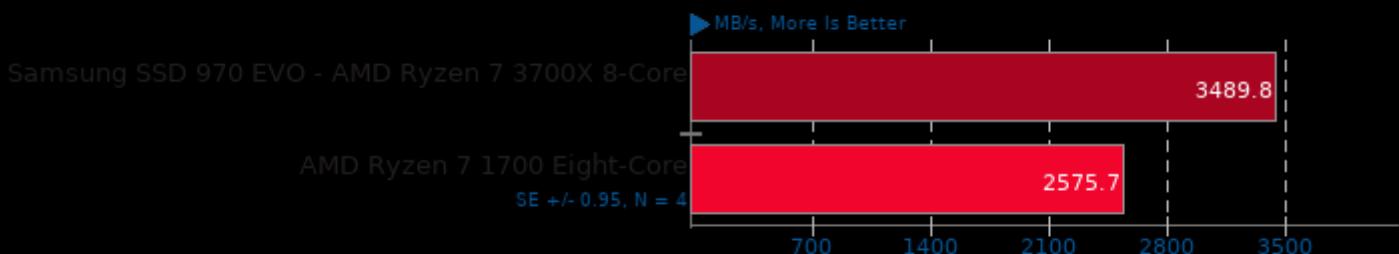
Compression Level: 19, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -lz4

Zstd Compression 1.4.9

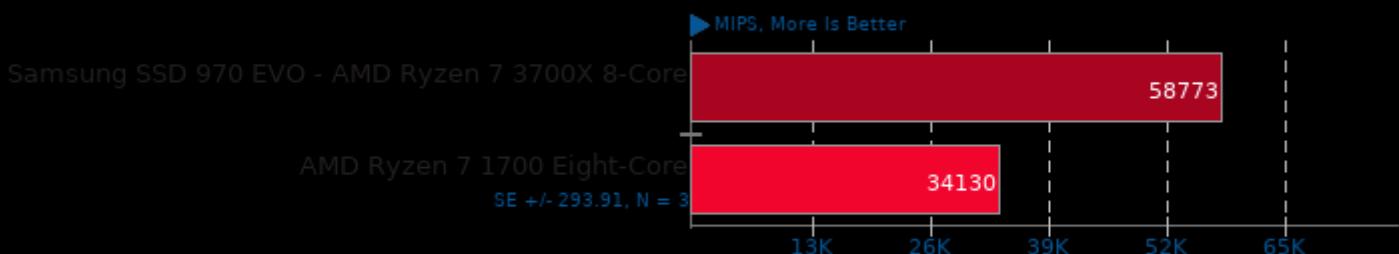
Compression Level: 19, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma -lz4

7-Zip Compression 16.02

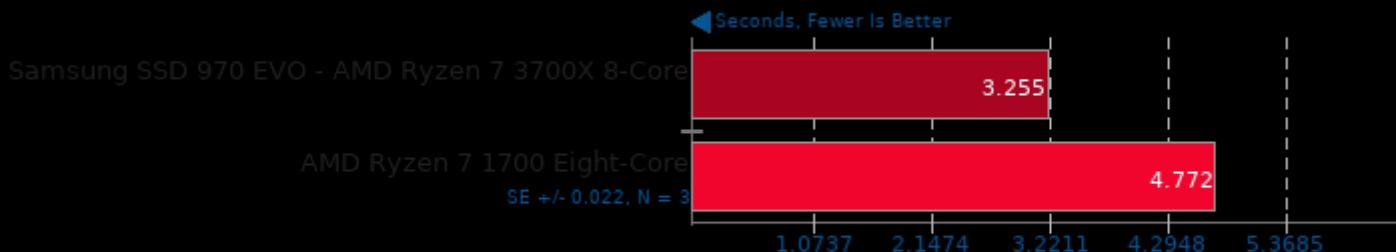
Compress Speed Test



1. (CXX) g++ options: -pipe -pthread

Parallel BZIP2 Compression 1.1.12

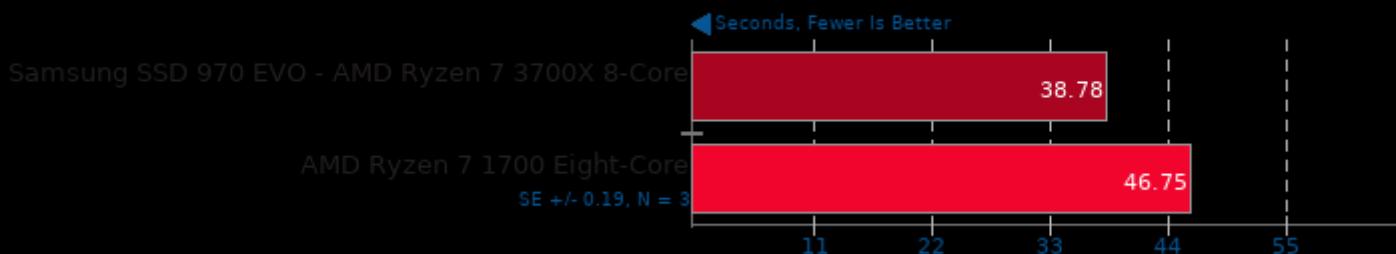
256MB File Compression



1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

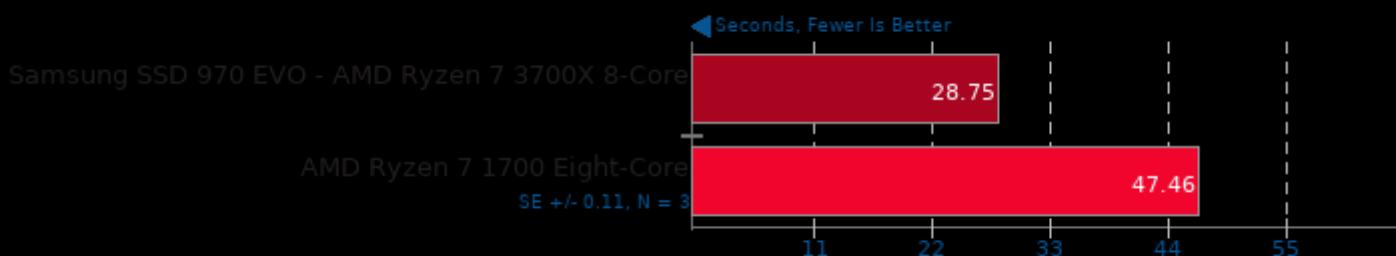
Gzip Compression

Linux Source Tree Archiving To .tar.gz



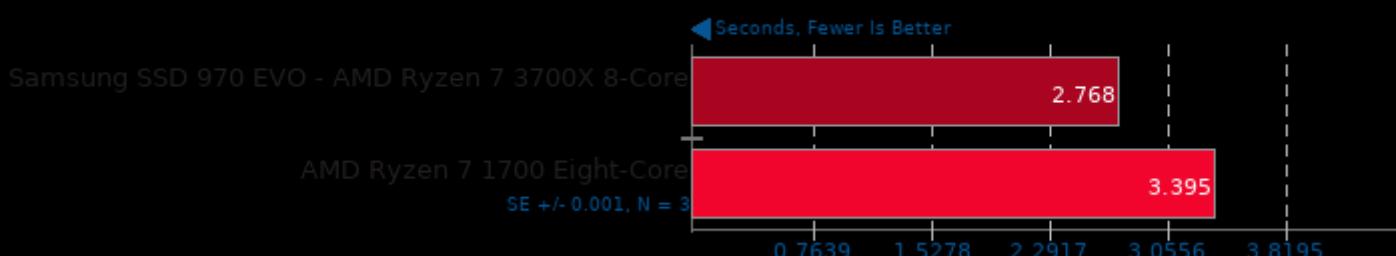
XZ Compression 5.2.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9

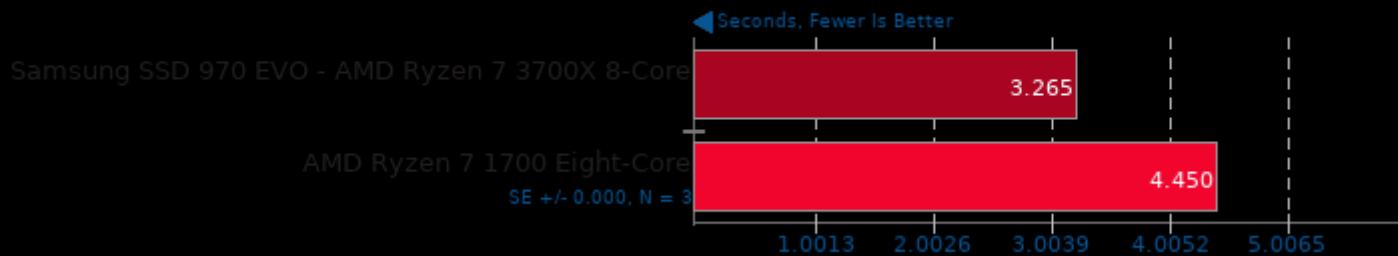


1. (CC) gcc options: -pthread -fvisibility=hidden -O2

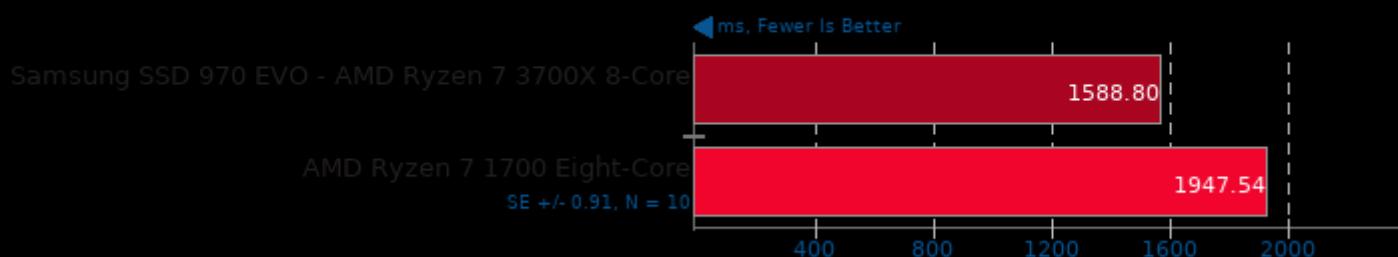
System GZIP Decompression



System XZ Decompression

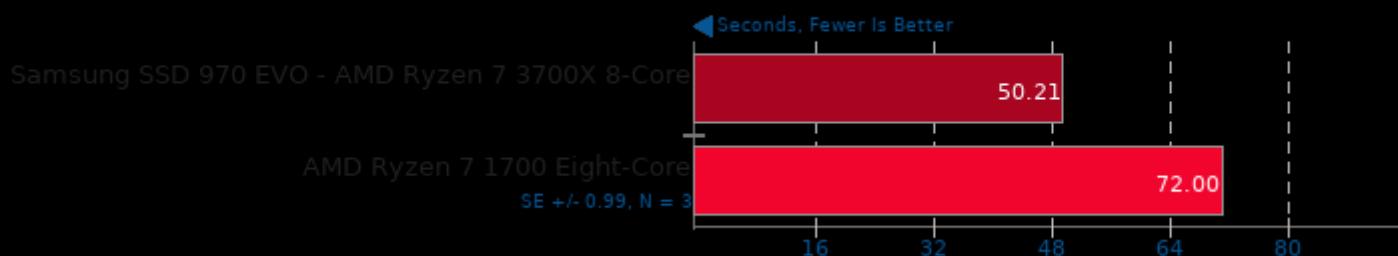


System ZLIB Decompression 1.2.7



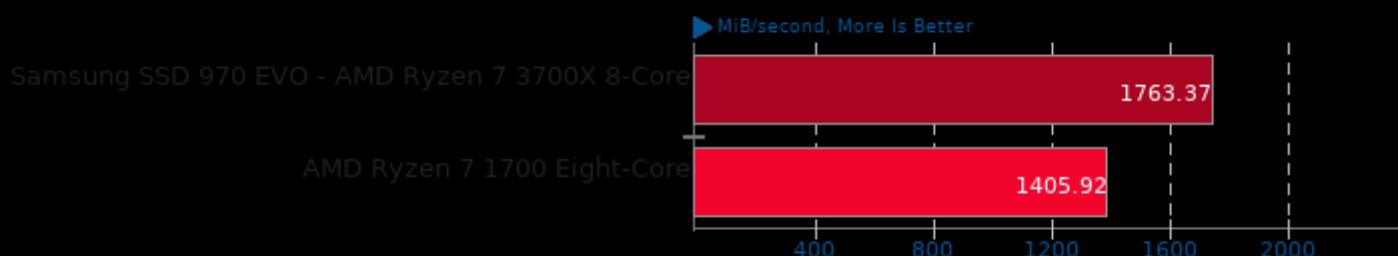
RAR Compression 5.6.1

Linux Source Tree Archiving To RAR



Crypto++ 8.2

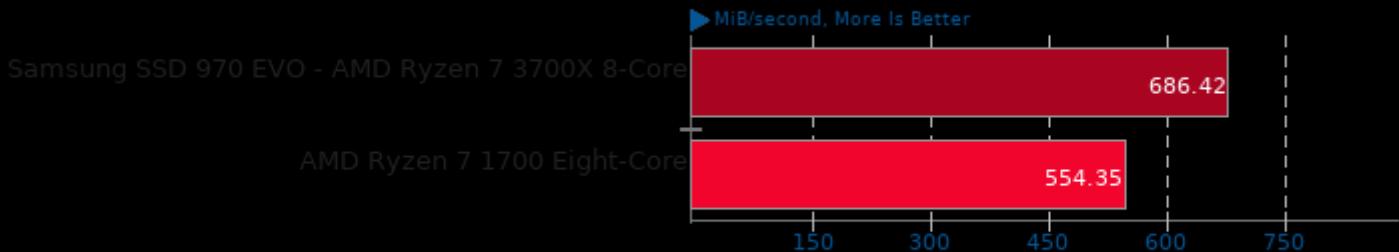
Test: All Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

Crypto++ 8.2

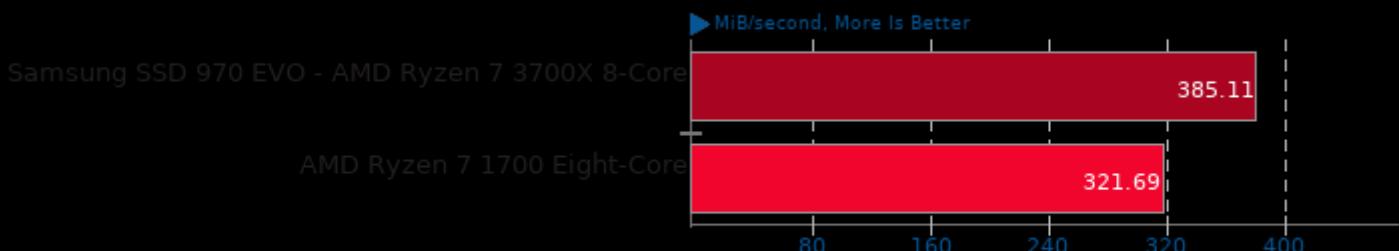
Test: Keyed Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

Crypto++ 8.2

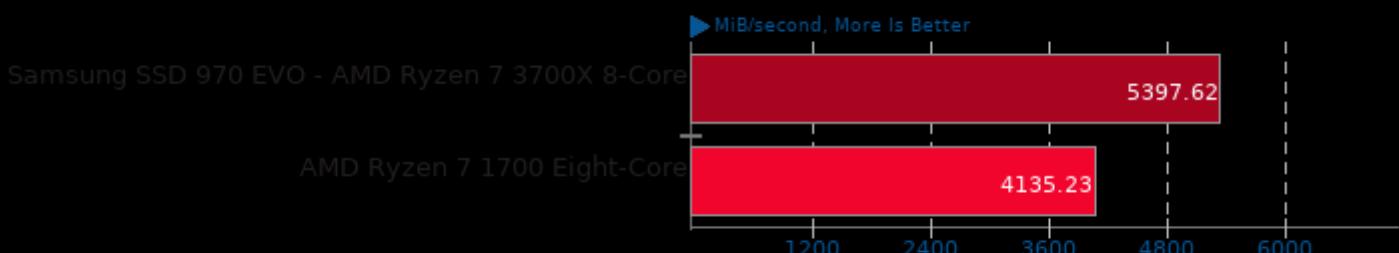
Test: Unkeyed Algorithms



1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

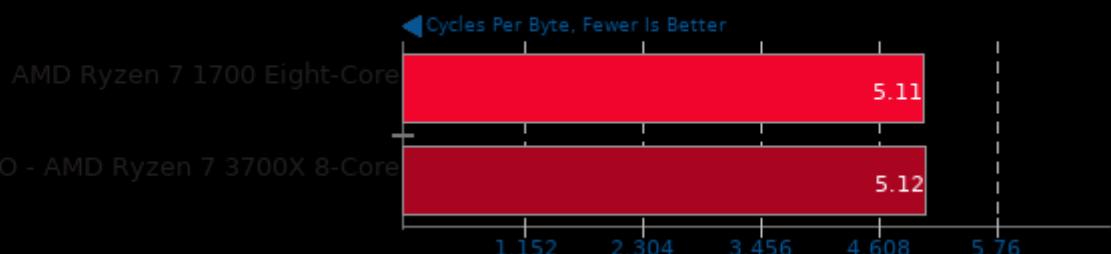
Crypto++ 8.2

Test: Integer + Elliptic Curve Public Key Algorithms



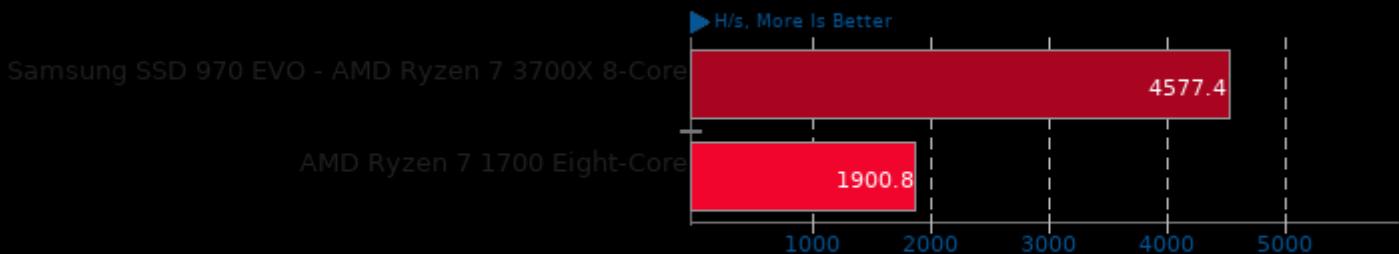
1. (CXX) g++ options: -g2 -O3 -fPIC -pthread -pipe

BLAKE2 20170307



Xmrig 6.12.1

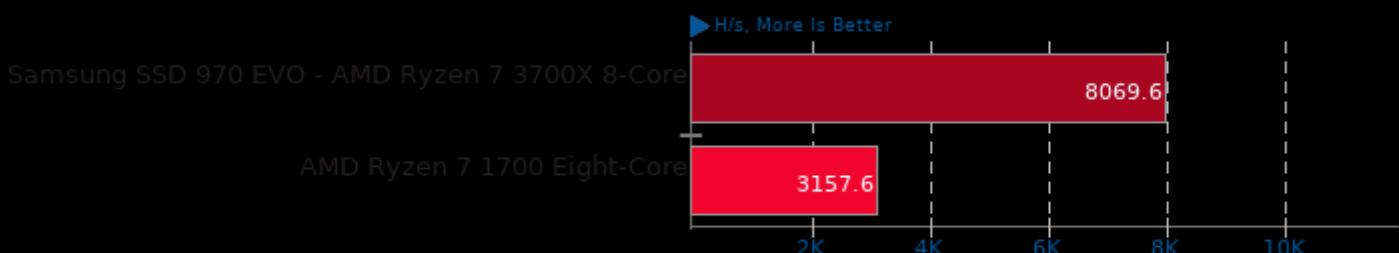
Variant: Monero - Hash Count: 1M



1. (CXX) g++ options: -fexceptions -fno-rtti -maes -O3 -Ofast -static-libgcc -static-libstdc++ -rdynamic -lssl -lcrypto -luv -lpthread -lrt -ldl -lhwloc

Xmrig 6.12.1

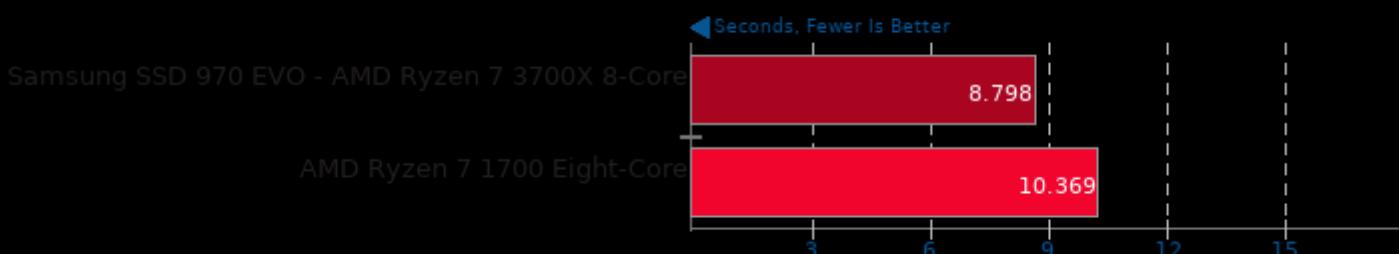
Variant: Wownero - Hash Count: 1M



1. (CXX) g++ options: -fexceptions -fno-rtti -maes -O3 -Ofast -static-libgcc -static-libstdc++ -rdynamic -lssl -lcrypto -luv -lpthread -lrt -ldl -lhwloc

Bork File Encrypter 1.4

File Encryption Time



ArrayFire 3.7

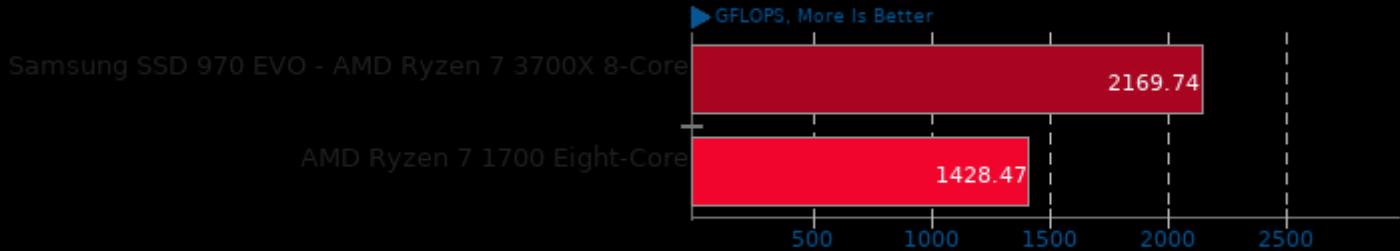
Test: BLAS CPU



1. (CXX) g++ options: -rdynamic

ArrayFire 3.7

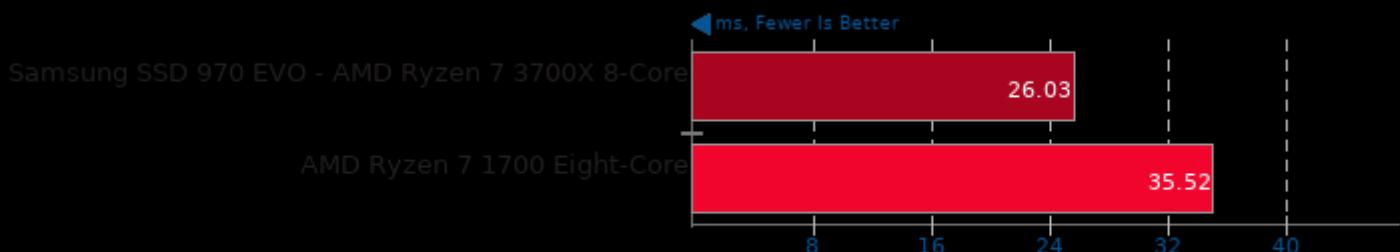
Test: BLAS OpenCL



1. (CXX) g++ options: -rdynamic

ArrayFire 3.7

Test: Conjugate Gradient CPU



1. (CXX) g++ options: -rdynamic

Botan 2.17.3

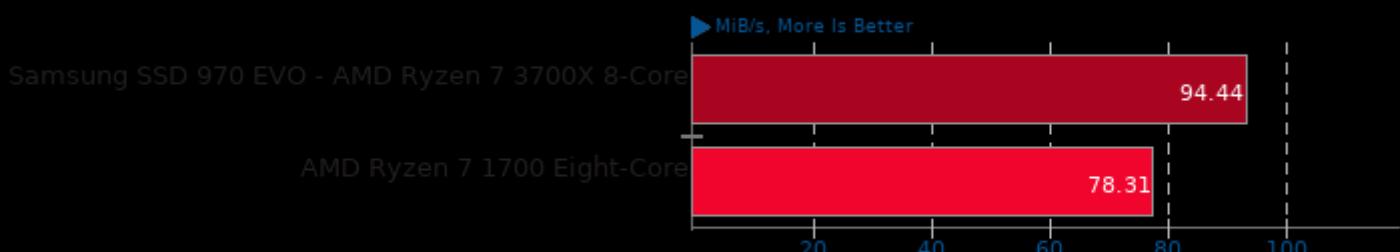
Test: KASUMI



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

Botan 2.17.3

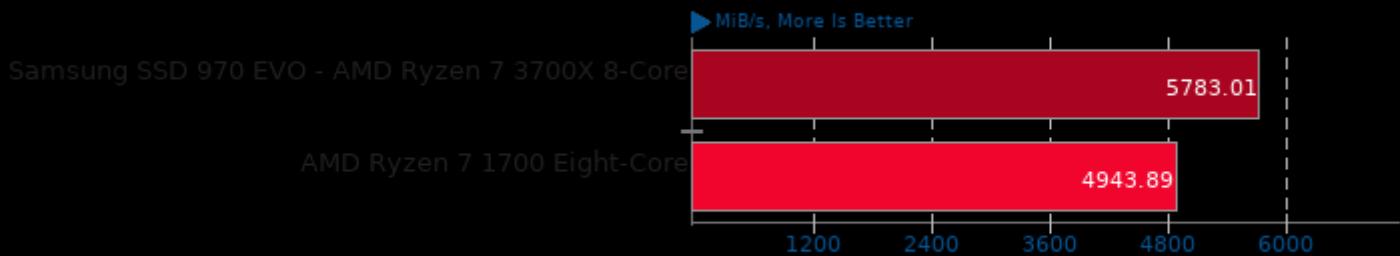
Test: KASUMI - Decrypt



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

Botan 2.17.3

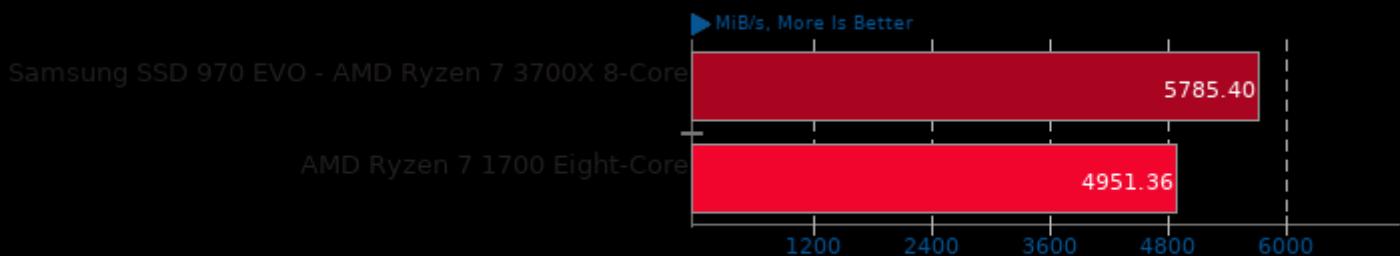
Test: AES-256



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

Botan 2.17.3

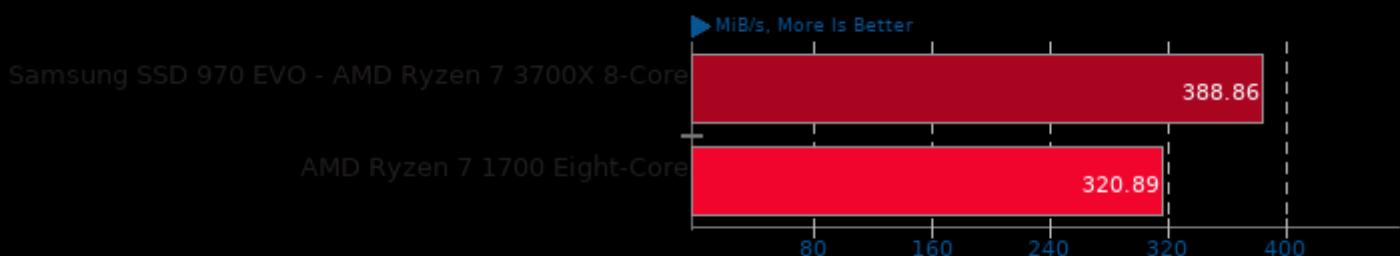
Test: AES-256 - Decrypt



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

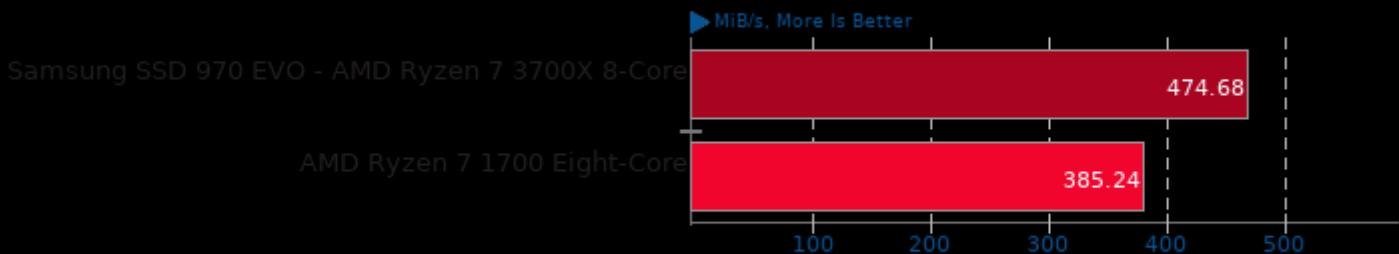
Test: Twofish - Decrypt



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

Botan 2.17.3

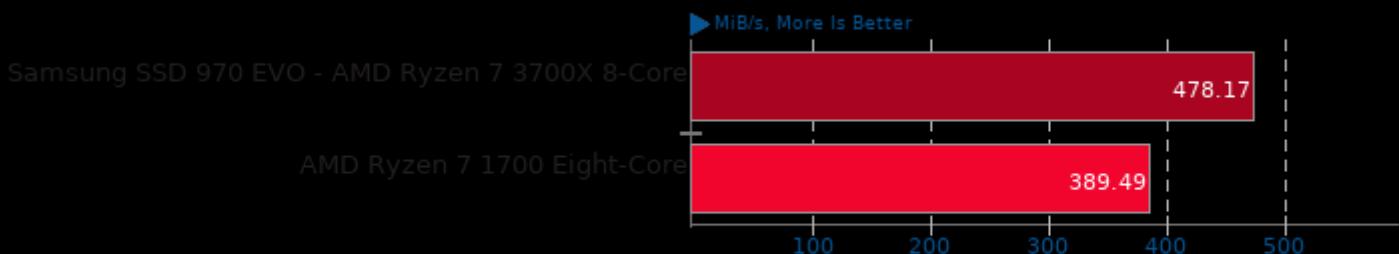
Test: Blowfish



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

Botan 2.17.3

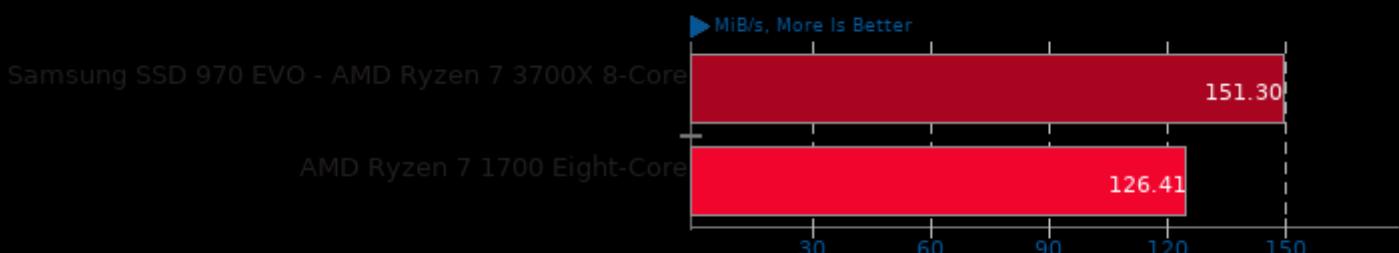
Test: Blowfish - Decrypt



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

Botan 2.17.3

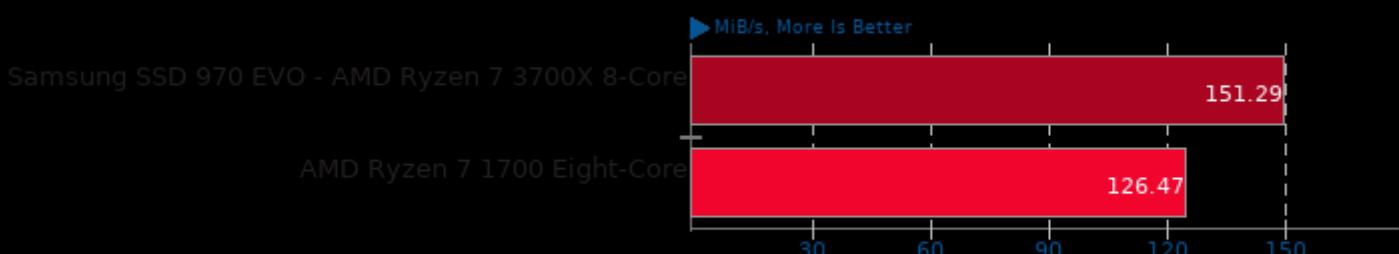
Test: CAST-256



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

Botan 2.17.3

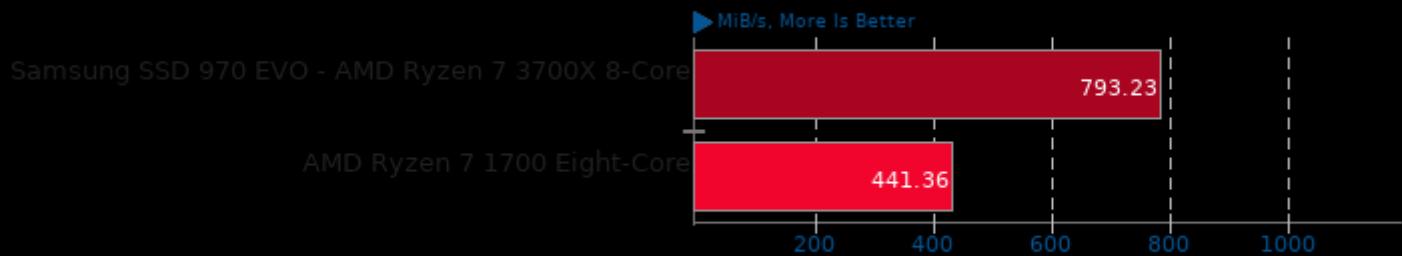
Test: CAST-256 - Decrypt



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

Botan 2.17.3

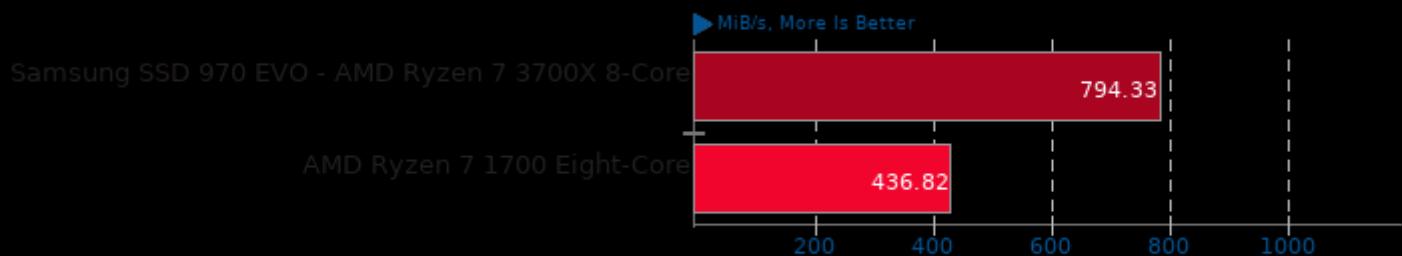
Test: ChaCha20Poly1305



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

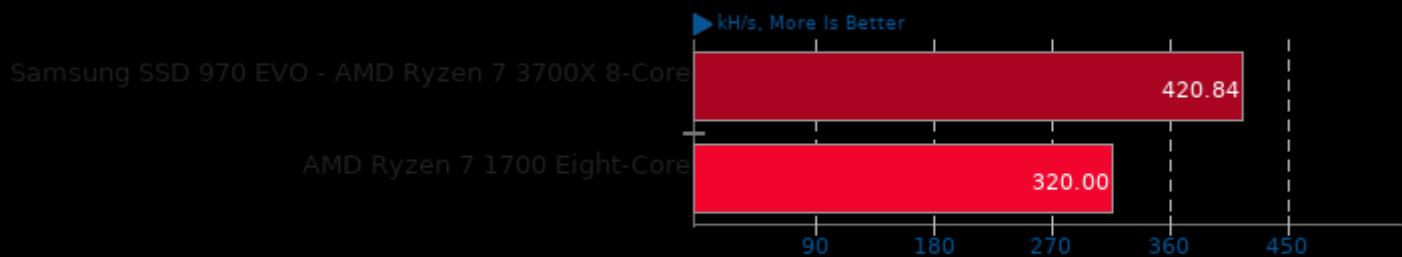
Aircrack-ng 1.5.2



1. (CXX) g++ options: -O3 -fvisibility=hidden -fasm=intel -fcommon -rdynamic -lsqlite3 -pthread -lz -lcrypto -lhwloc -ldl -lm -pthread

Cpuminer-Opt 3.15.5

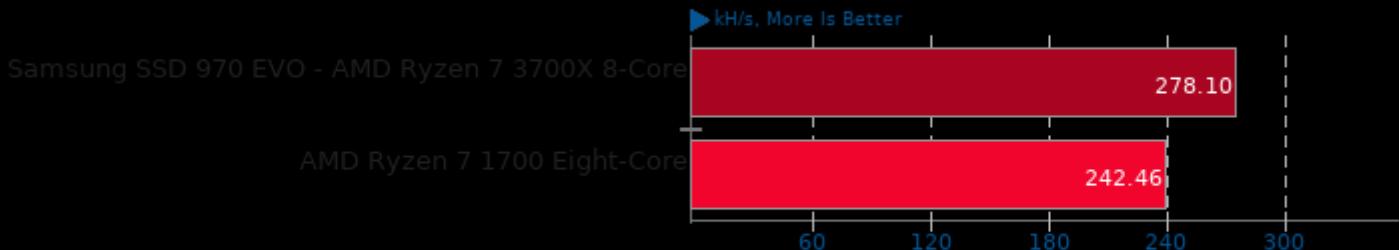
Algorithm: Magi



1. (CXX) g++ options: -O2 -curl -lz -ljansson -pthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

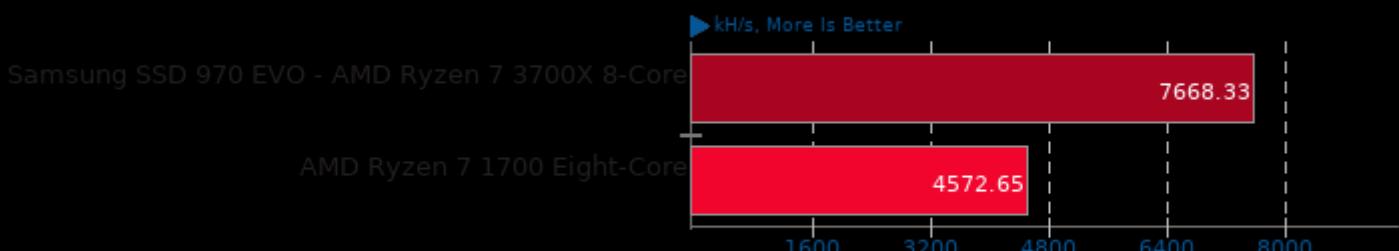
Algorithm: x25x



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

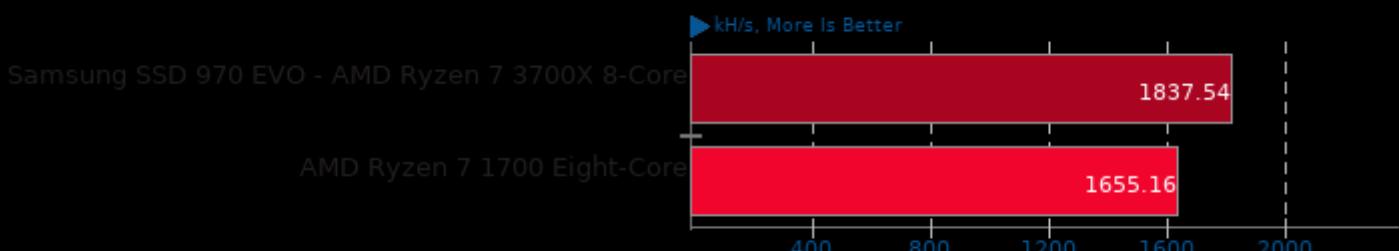
Algorithm: Deepcoin



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

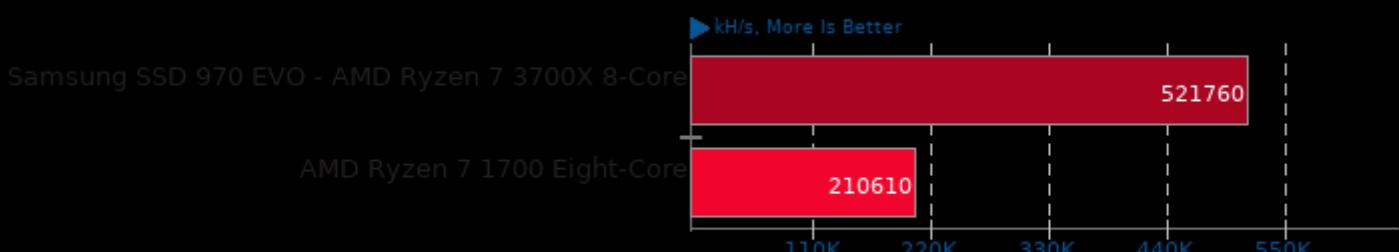
Algorithm: Ringcoin



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

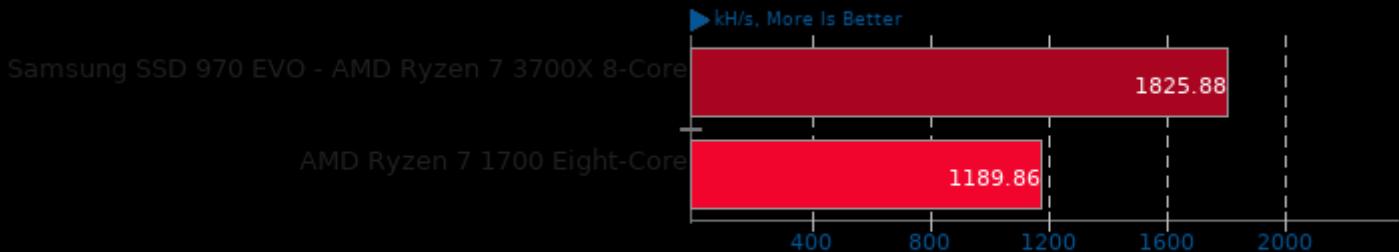
Algorithm: Blake-2S



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

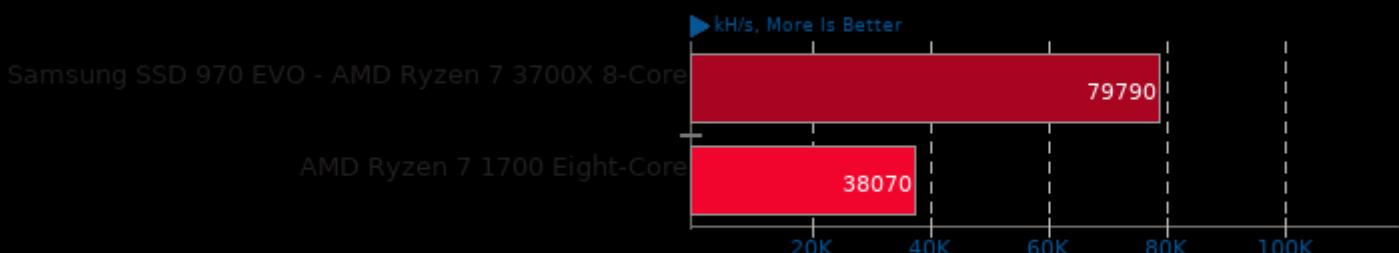
Algorithm: Garlicoin



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

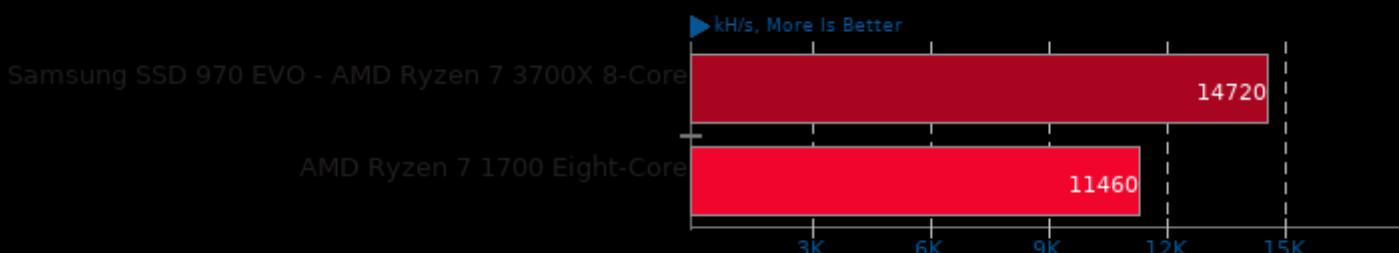
Algorithm: Skeincoin



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

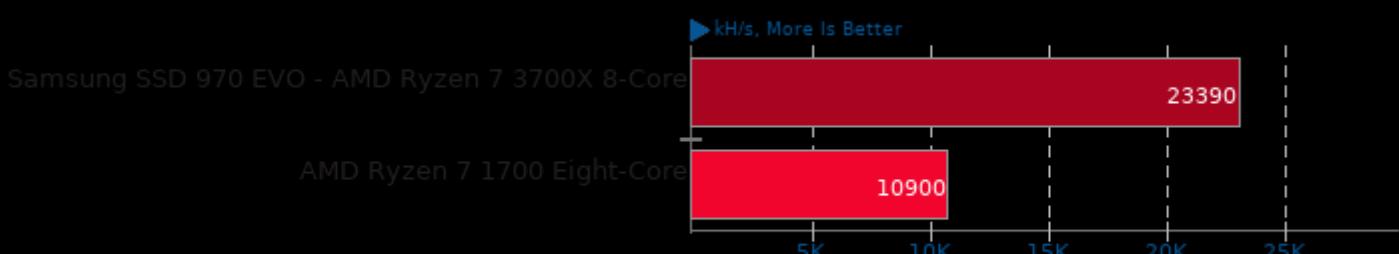
Algorithm: Myriad-Groestl



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

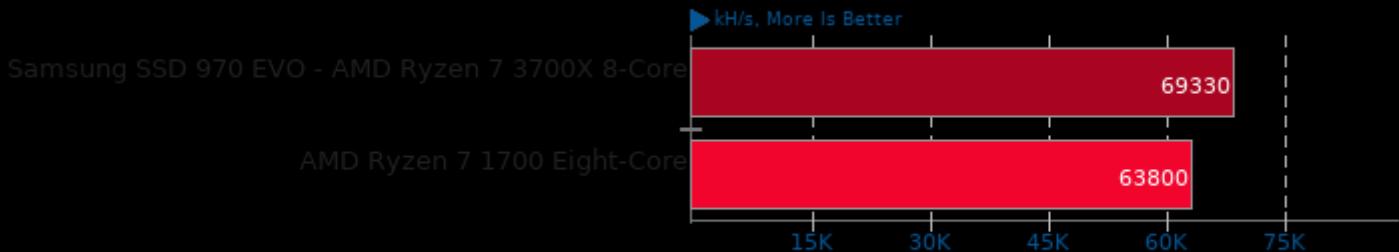
Algorithm: LBC, LBRY Credits



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

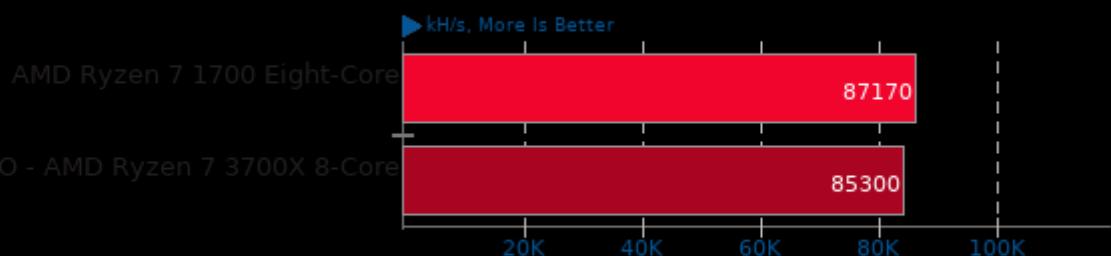
Algorithm: Quad SHA-256, Pyrite



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.15.5

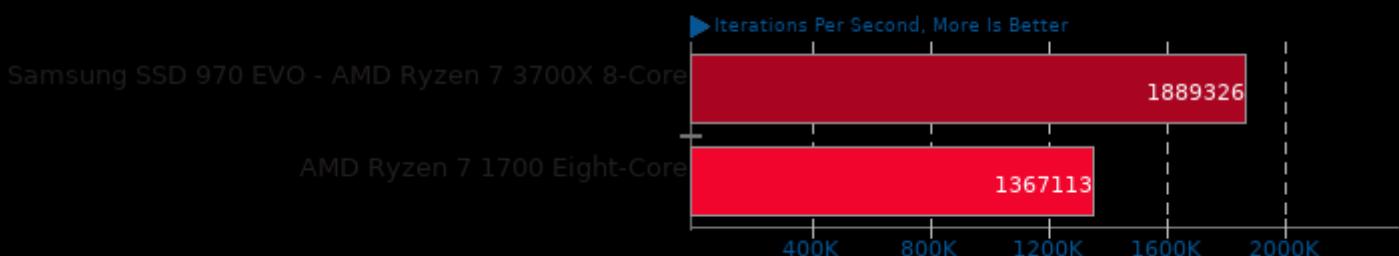
Algorithm: Triple SHA-256, Onecoin



1. (CXX) g++ options: -O2 -lcurl -lz -ljansson -lpthread -lssl -lcrypto -lgmp

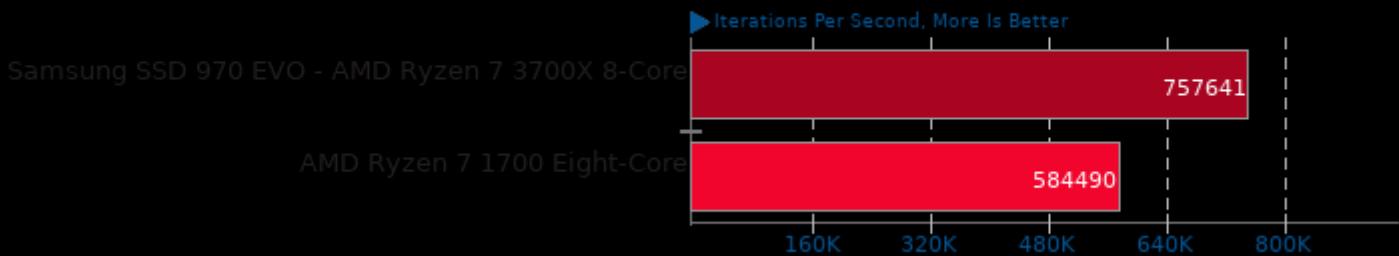
Cryptsetup

PBKDF2-sha512



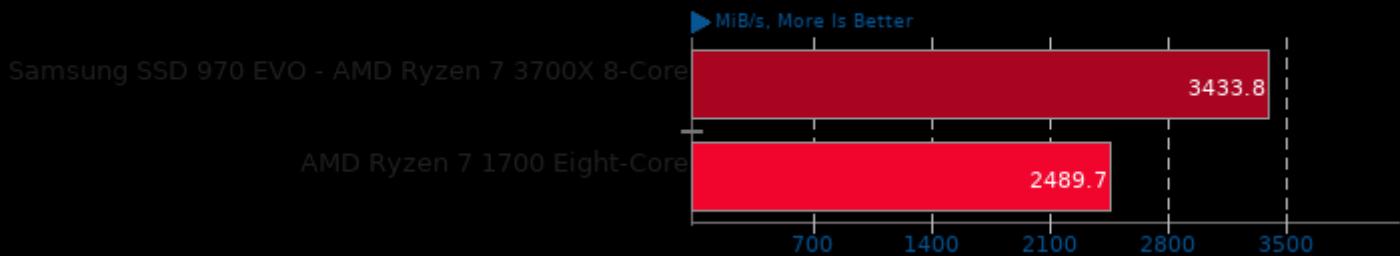
Cryptsetup

PBKDF2-whirlpool



Cryptsetup

AES-XTS 256b Encryption



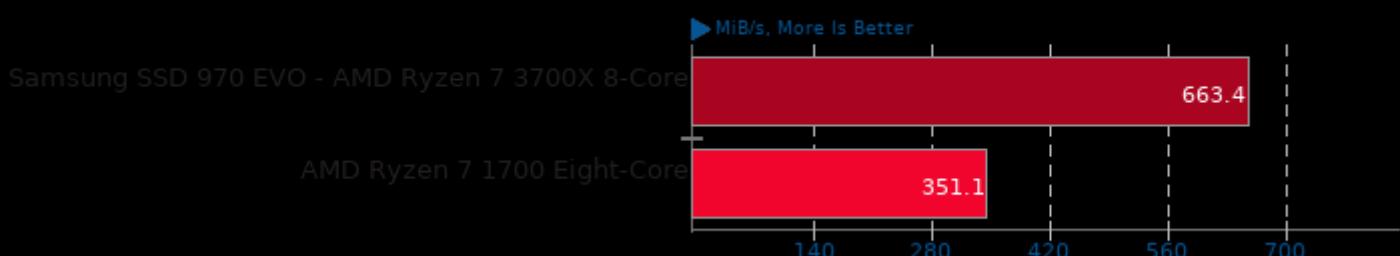
Cryptsetup

AES-XTS 256b Decryption



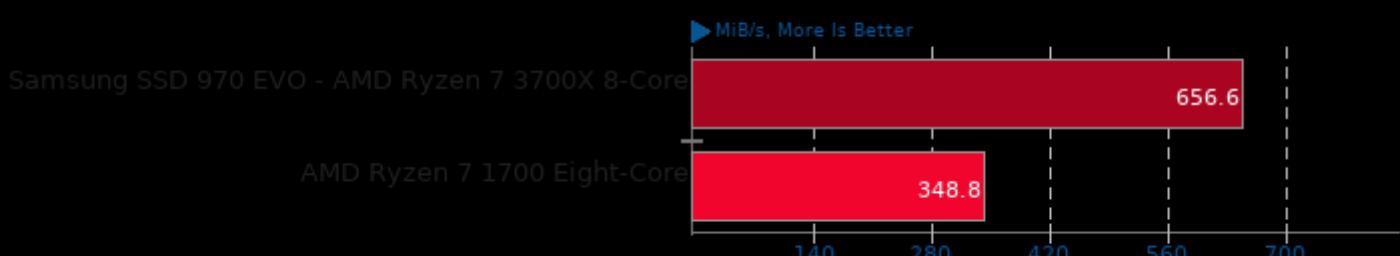
Cryptsetup

Serpent-XTS 256b Encryption



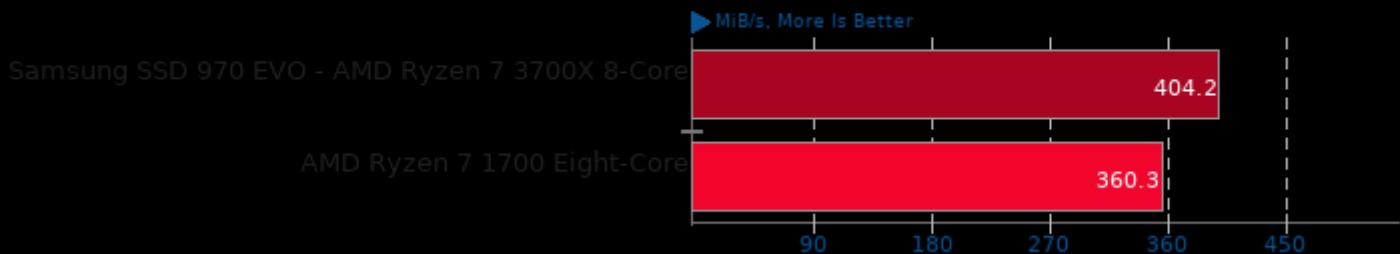
Cryptsetup

Serpent-XTS 256b Decryption



Cryptsetup

Twofish-XTS 256b Encryption



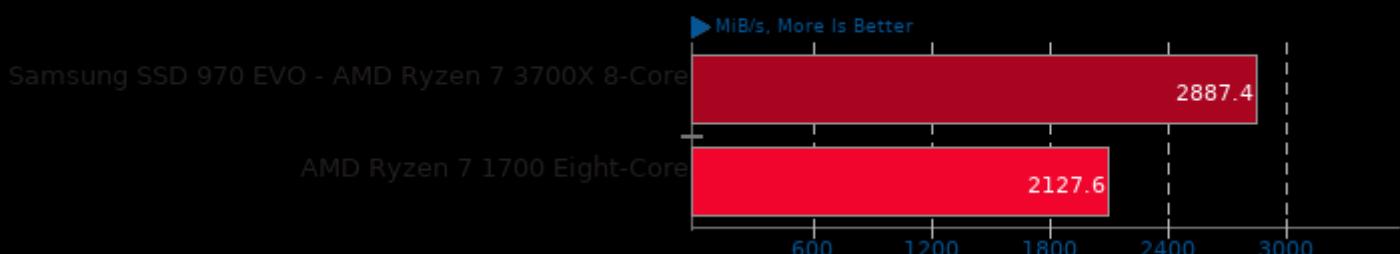
Cryptsetup

AES-XTS 512b Encryption



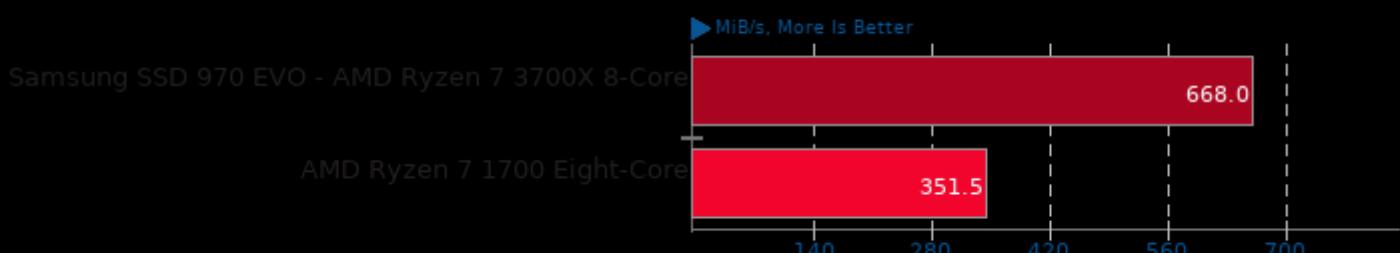
Cryptsetup

AES-XTS 512b Decryption



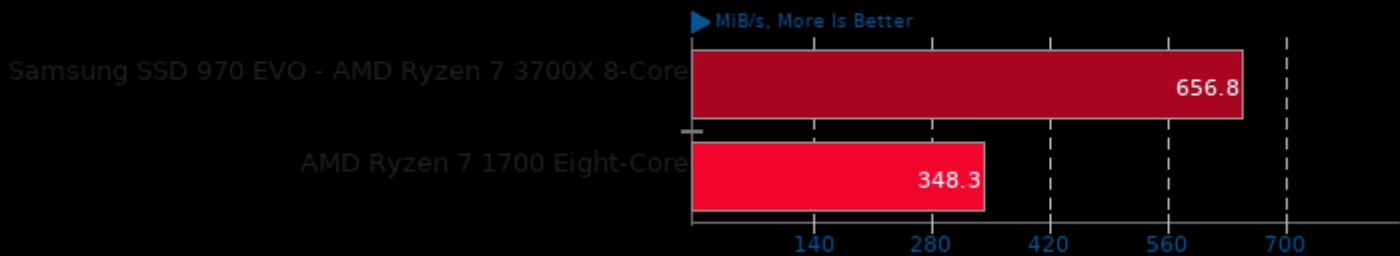
Cryptsetup

Serpent-XTS 512b Encryption



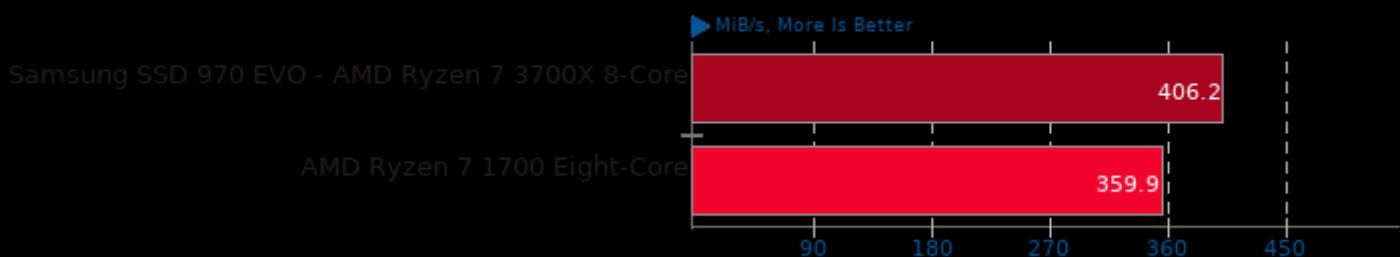
Cryptsetup

Serpent-XTS 512b Decryption



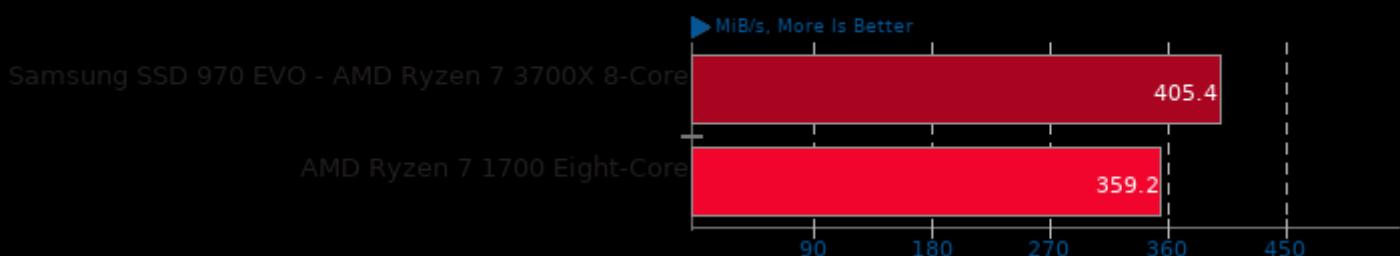
Cryptsetup

Twofish-XTS 512b Encryption



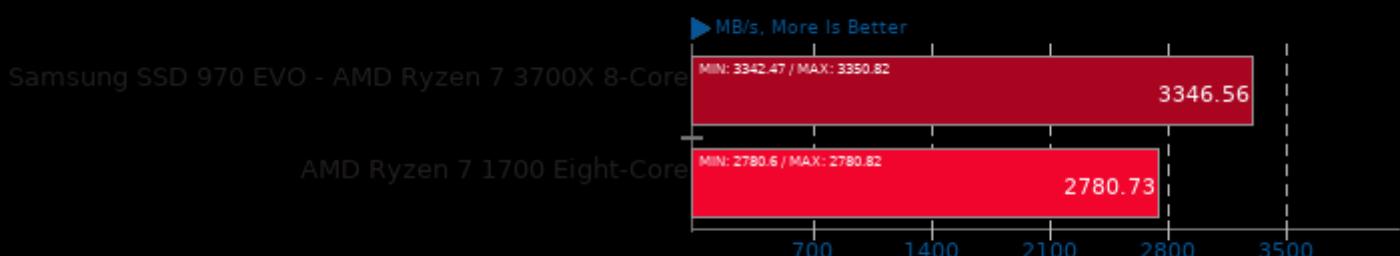
Cryptsetup

Twofish-XTS 512b Decryption



CacheBench

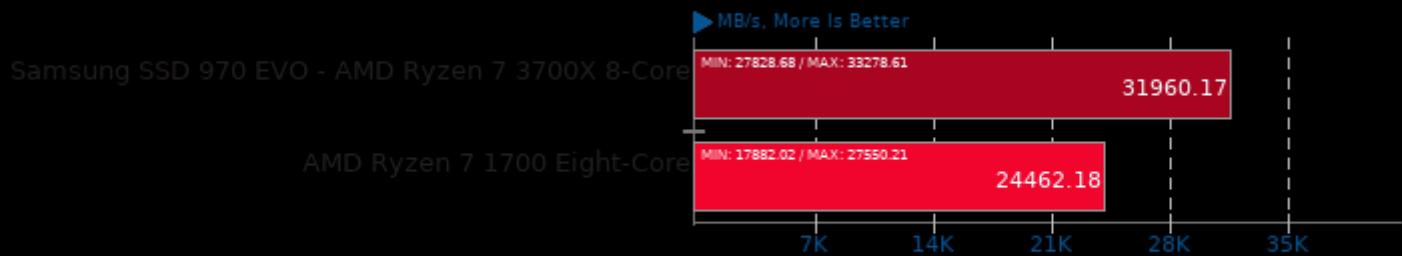
Test: Read



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

CacheBench

Test: Write



1. (CC) gcc options: -Irt

CacheBench

Test: Read / Modify / Write



1. (CC) gcc options: -Irt

RAMspeed SMP 3.5.0

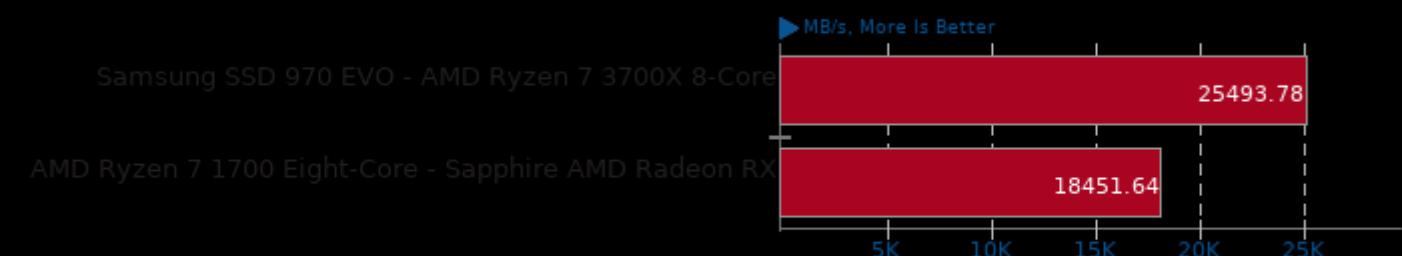
Type: Add - Benchmark: Integer



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

RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer



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

RAMspeed SMP 3.5.0

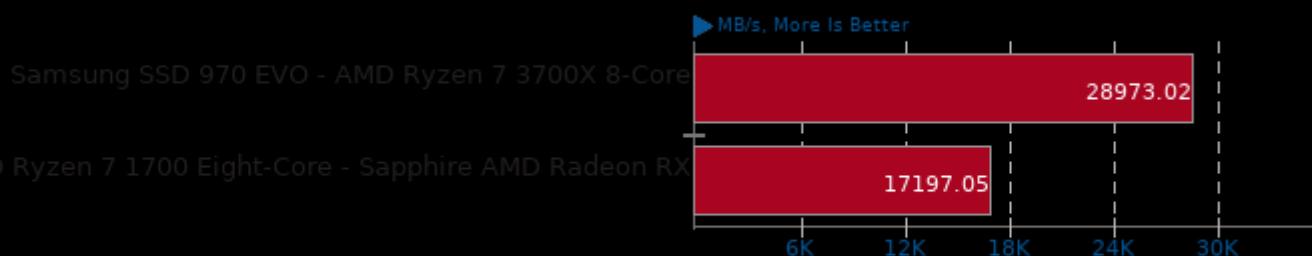
Type: Scale - Benchmark: Integer



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

RAMspeed SMP 3.5.0

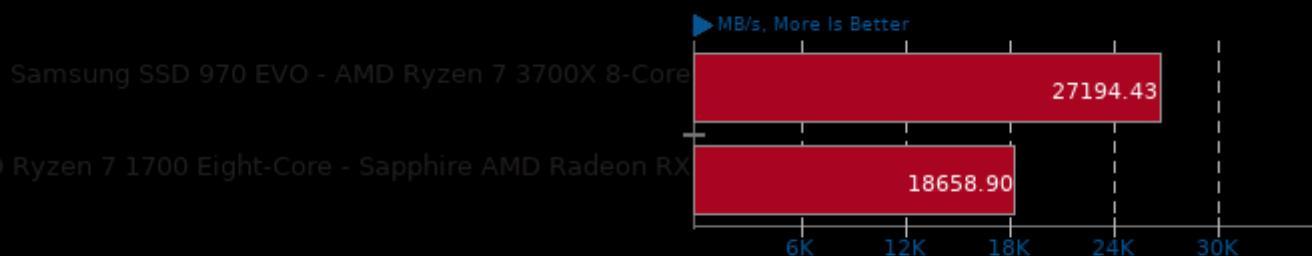
Type: Triad - Benchmark: Integer



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

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Integer



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

RAMspeed SMP 3.5.0

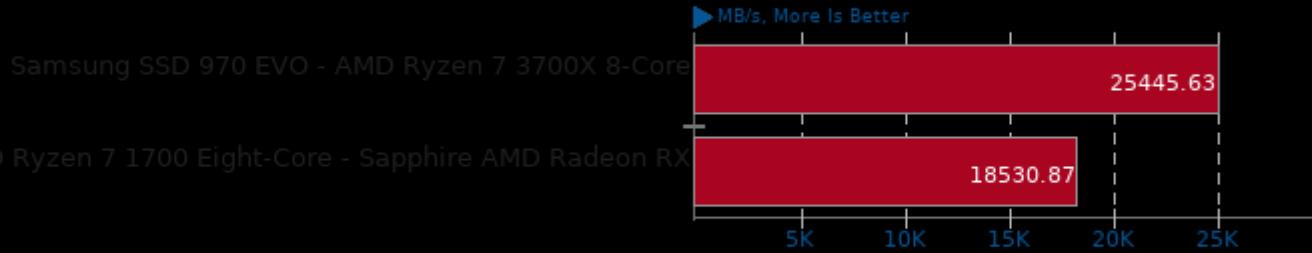
Type: Add - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

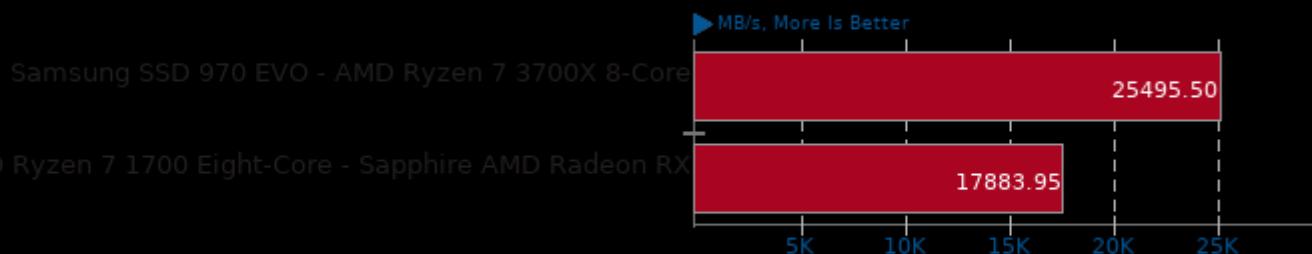
Type: Copy - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

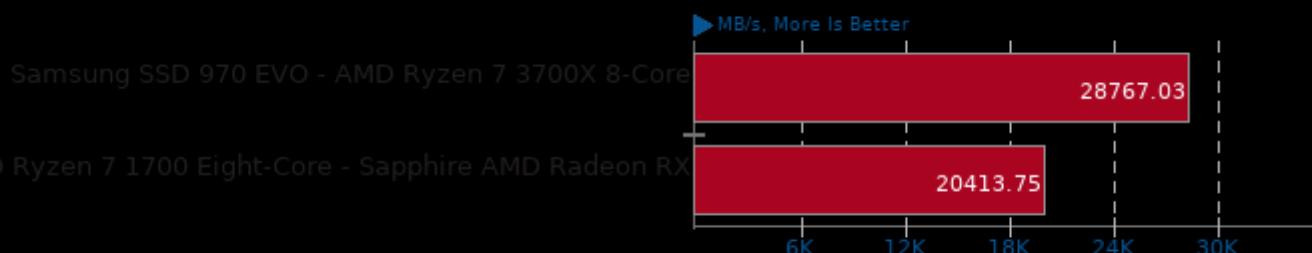
Type: Scale - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

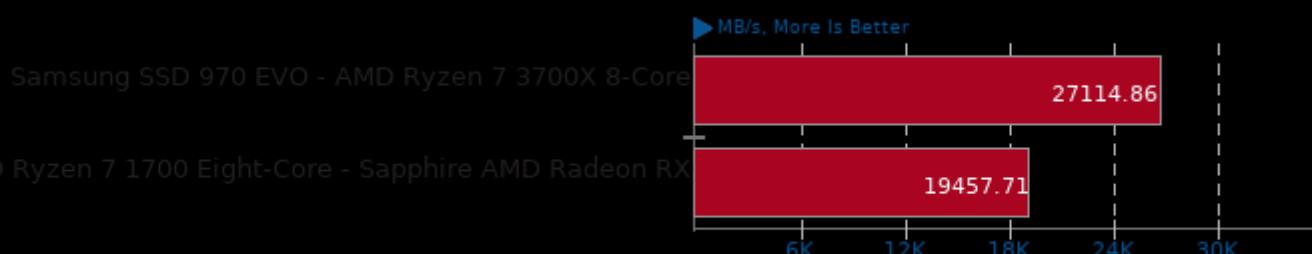
Type: Triad - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point



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

Tinymembench 2018-05-28

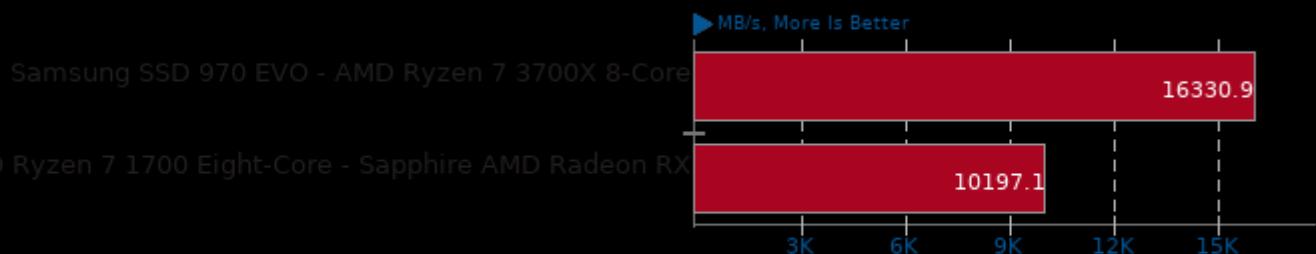
Standard Memcpy



1. (CC) gcc options: -O2 -lm

Tinymembench 2018-05-28

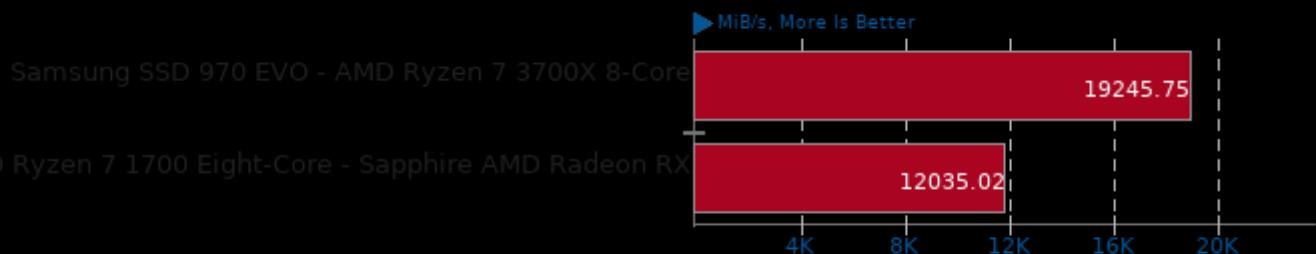
Standard Memset



1. (CC) gcc options: -O2 -lm

MBW 2018-09-08

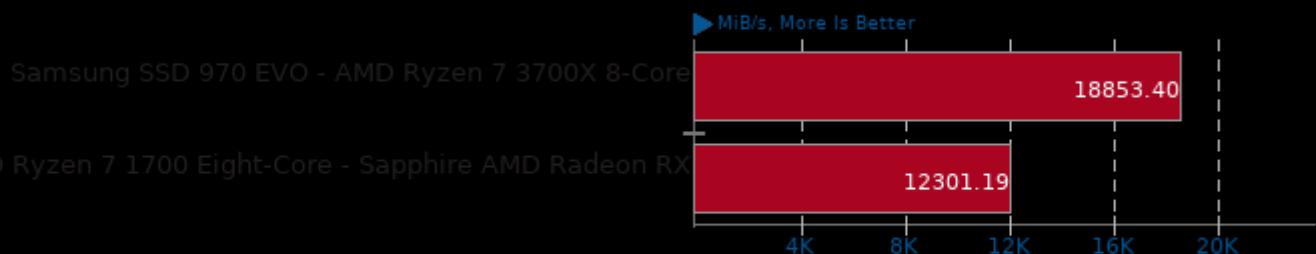
Test: Memory Copy - Array Size: 128 MiB



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

MBW 2018-09-08

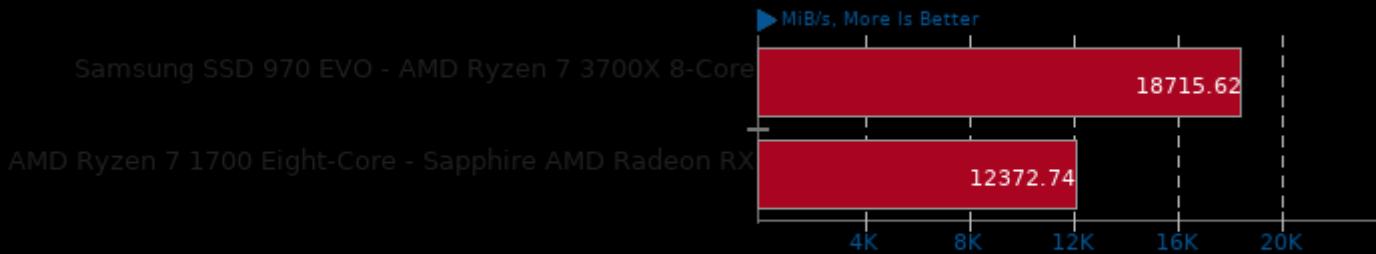
Test: Memory Copy - Array Size: 512 MiB



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

MBW 2018-09-08

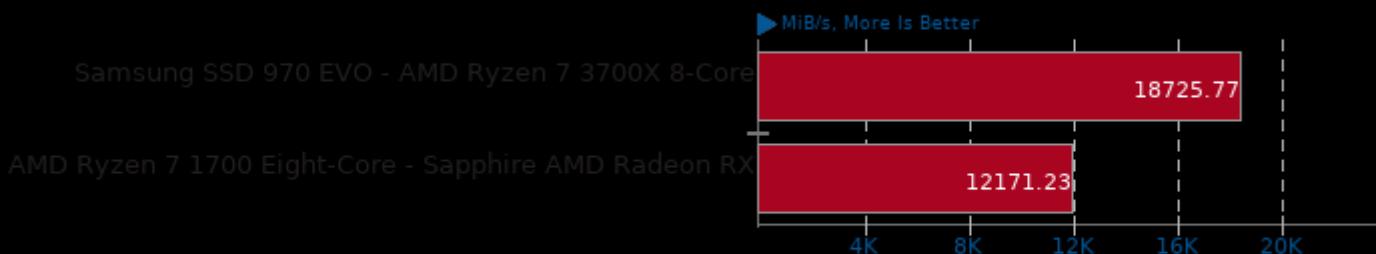
Test: Memory Copy - Array Size: 1024 MiB



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

MBW 2018-09-08

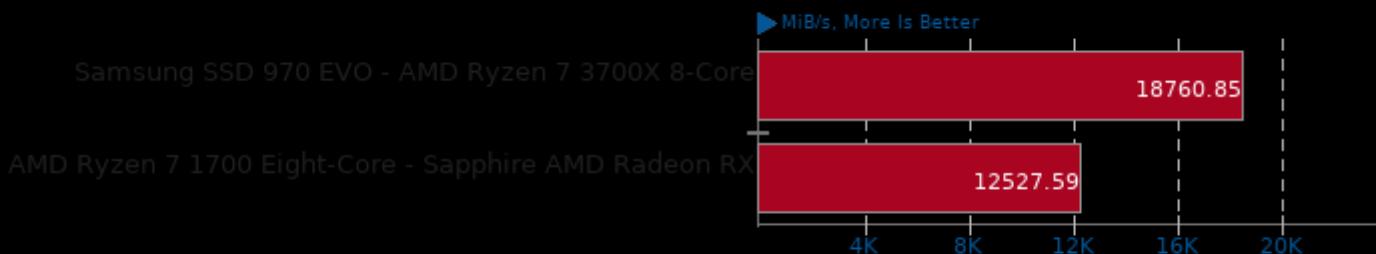
Test: Memory Copy - Array Size: 4096 MiB



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

MBW 2018-09-08

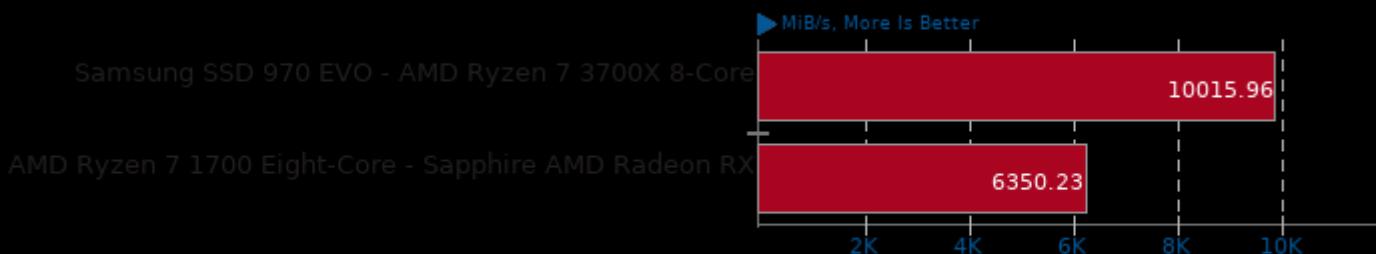
Test: Memory Copy - Array Size: 8192 MiB



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

MBW 2018-09-08

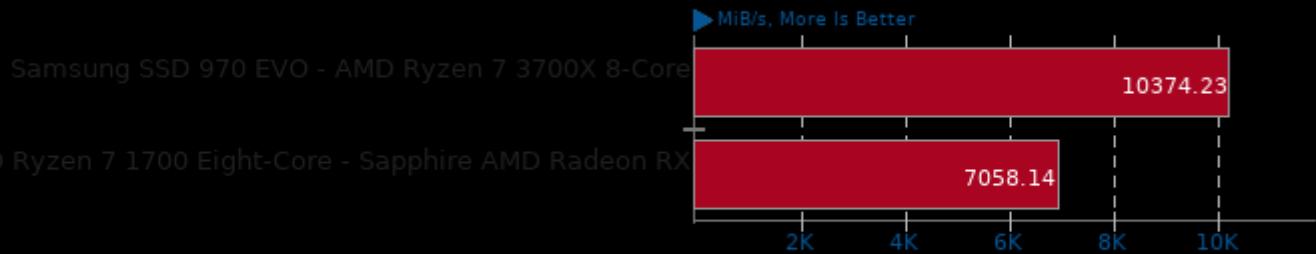
Test: Memory Copy, Fixed Block Size - Array Size: 128 MiB



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

MBW 2018-09-08

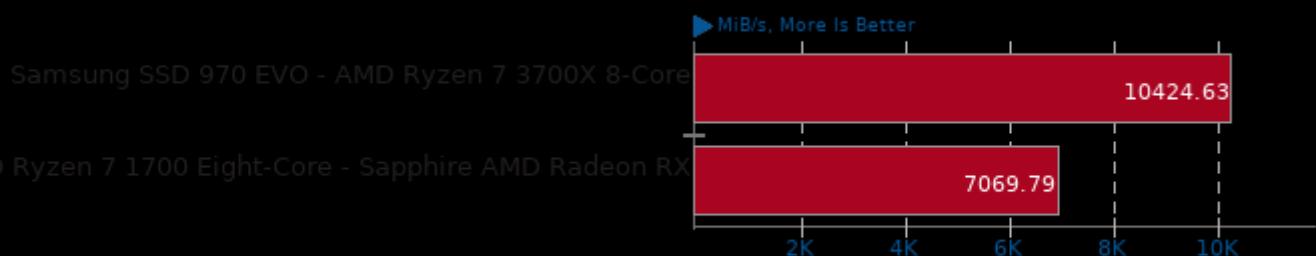
Test: Memory Copy, Fixed Block Size - Array Size: 512 MiB



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

MBW 2018-09-08

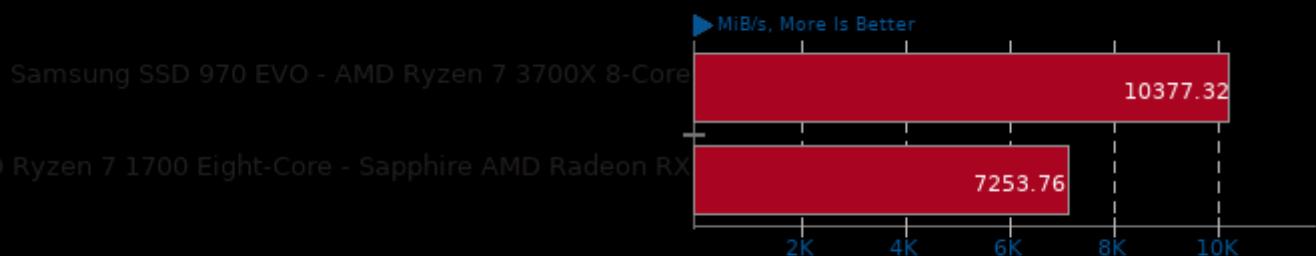
Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB



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

MBW 2018-09-08

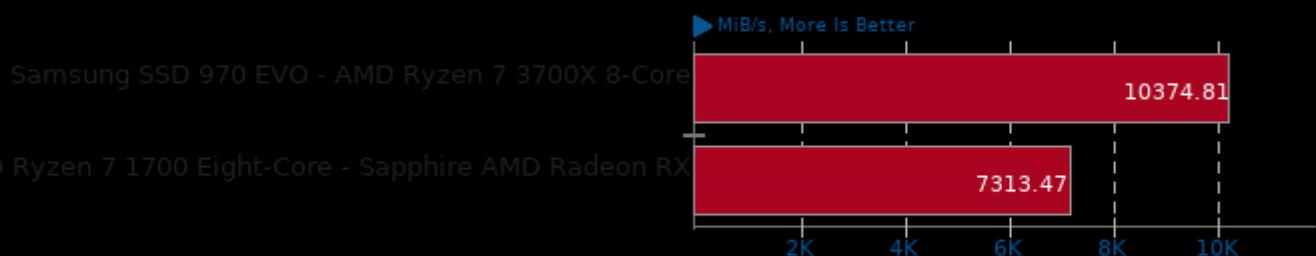
Test: Memory Copy, Fixed Block Size - Array Size: 4096 MiB



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

MBW 2018-09-08

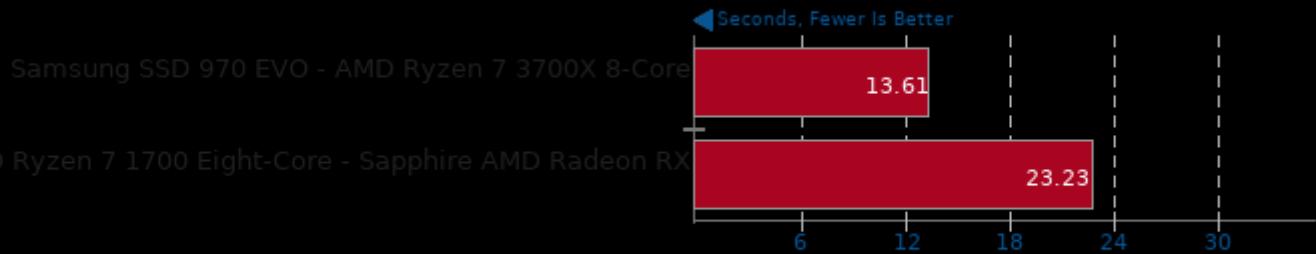
Test: Memory Copy, Fixed Block Size - Array Size: 8192 MiB



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

t-test1 2017-01-13

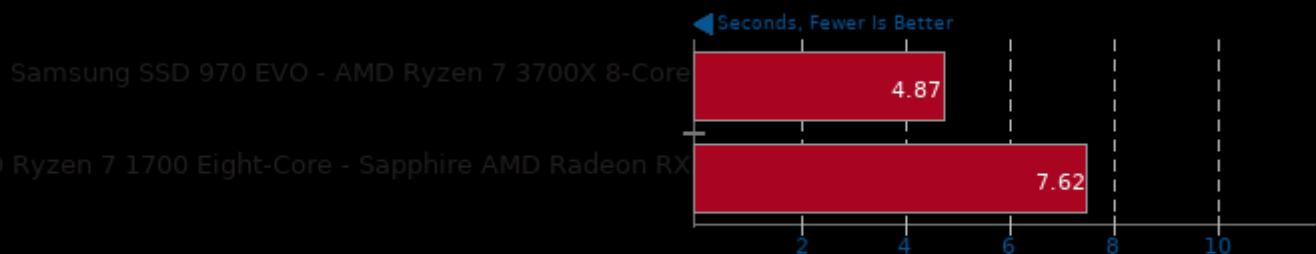
Threads: 1



1. (CC) gcc options: -pthread

t-test1 2017-01-13

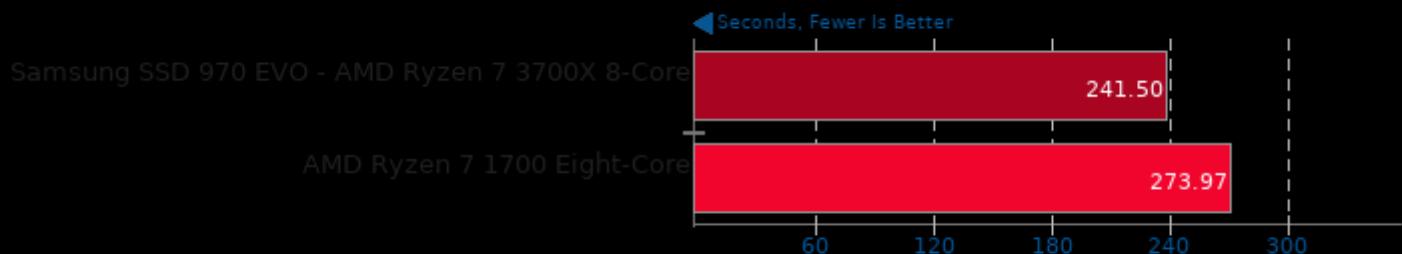
Threads: 2



1. (CC) gcc options: -pthread

Rodinia 3.1

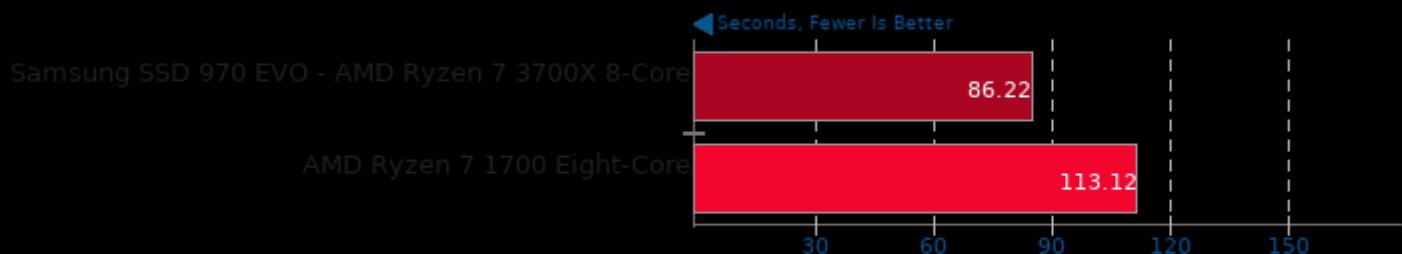
Test: OpenMP LavaMD



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

Rodinia 3.1

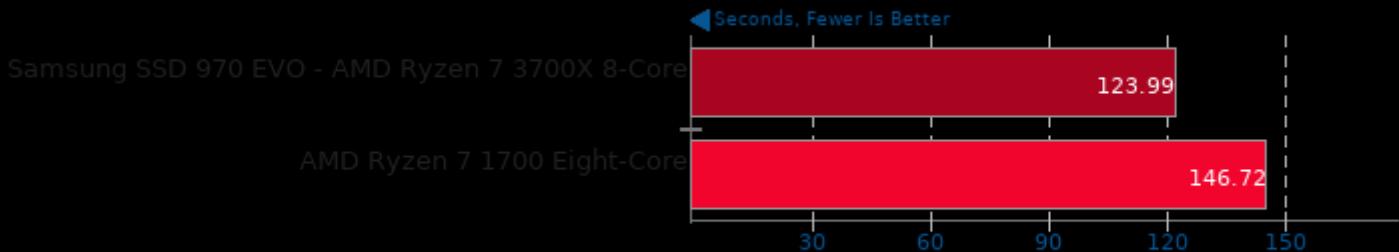
Test: OpenMP HotSpot3D



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

Rodinia 3.1

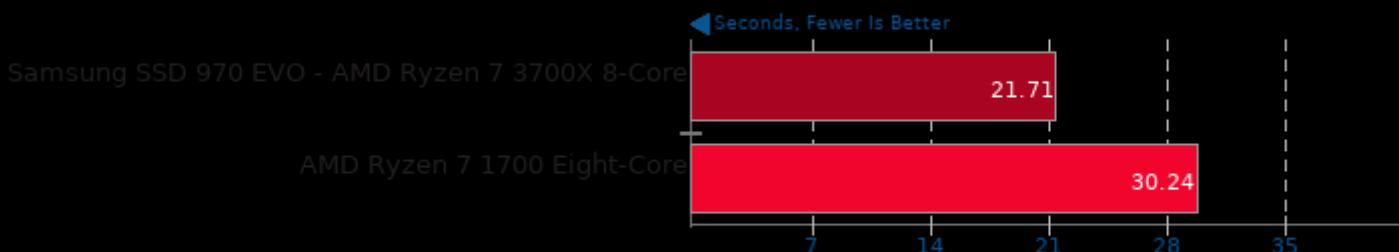
Test: OpenMP Leukocyte



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

Rodinia 3.1

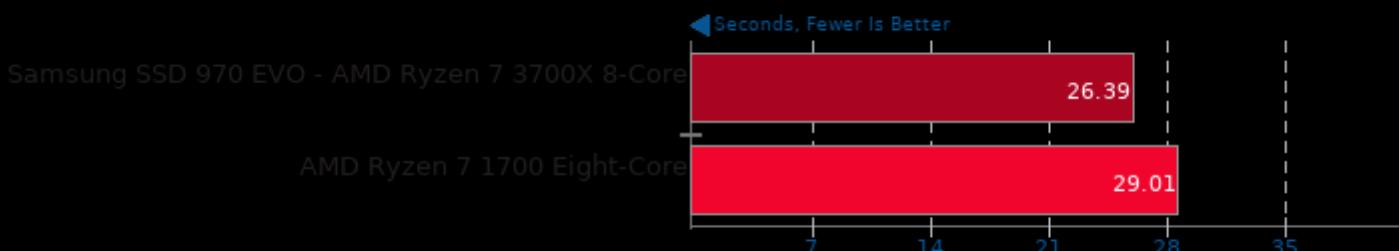
Test: OpenMP CFD Solver



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

Rodinia 3.1

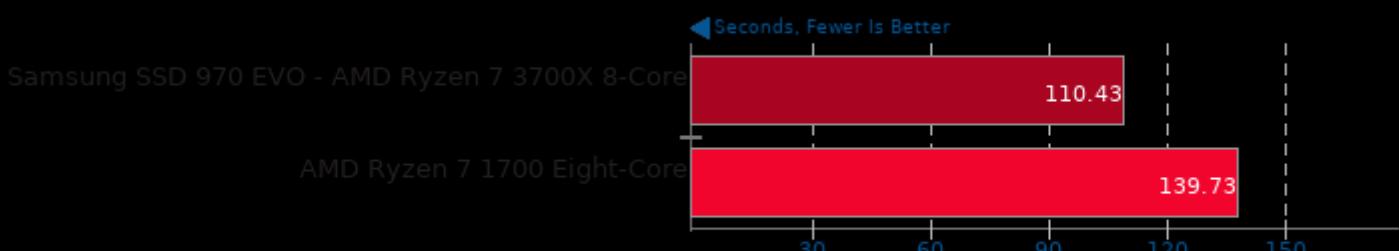
Test: OpenMP Streamcluster



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

Parboil 2.5

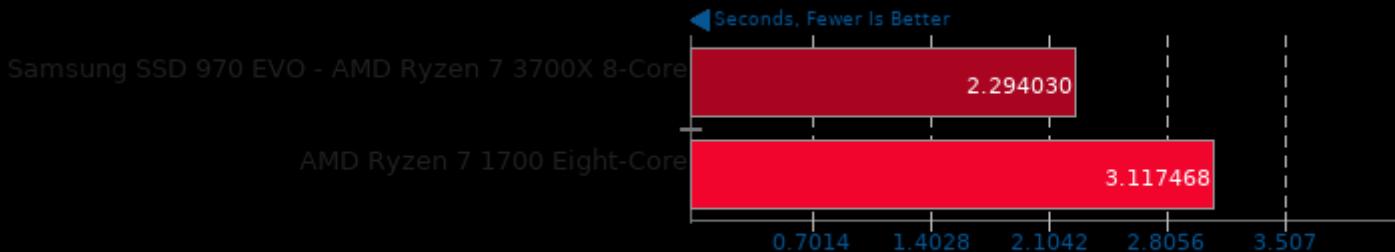
Test: OpenMP LBM



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Parboil 2.5

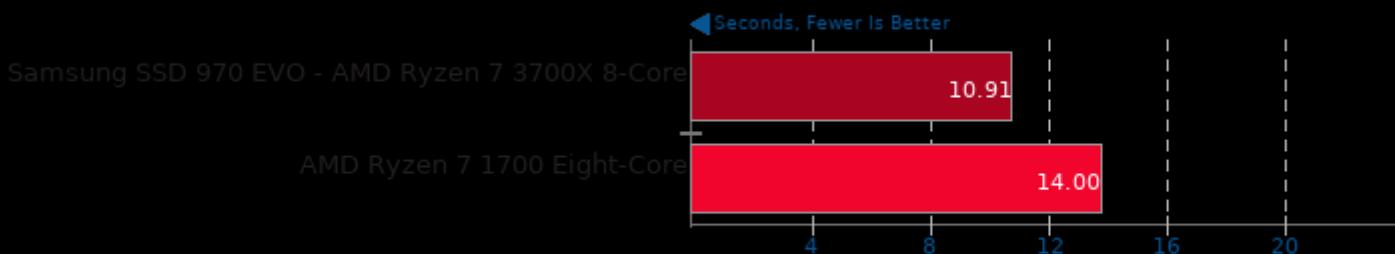
Test: OpenMP CUTCP



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Parboil 2.5

Test: OpenMP Stencil



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Parboil 2.5

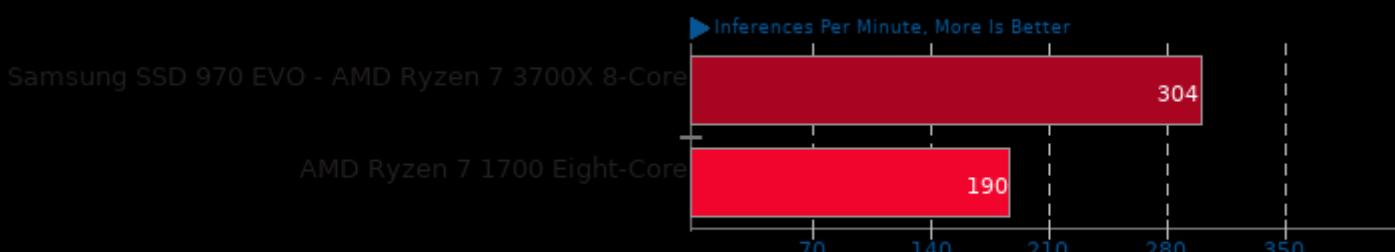
Test: OpenMP MRI Gridding



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

ONNX Runtime 1.6

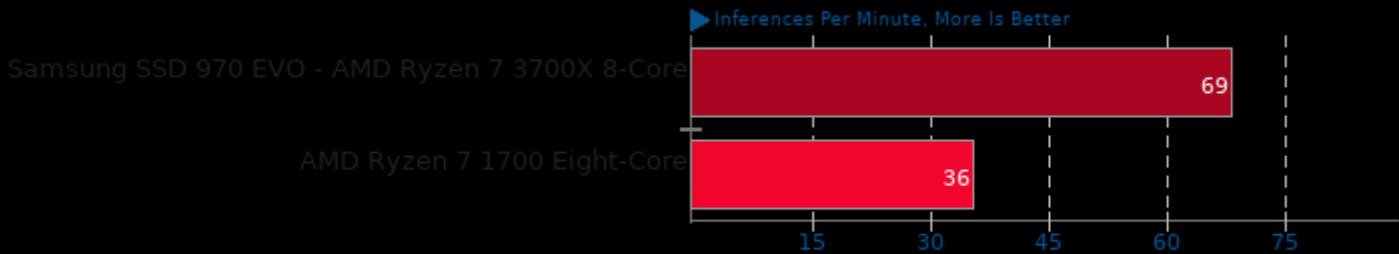
Model: yolov4 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

ONNX Runtime 1.6

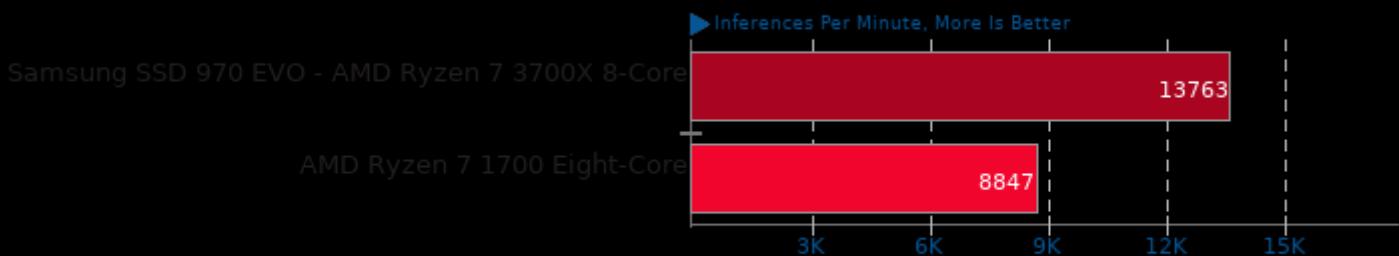
Model: fcn-resnet101-11 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -O3 -ldl -lrt

ONNX Runtime 1.6

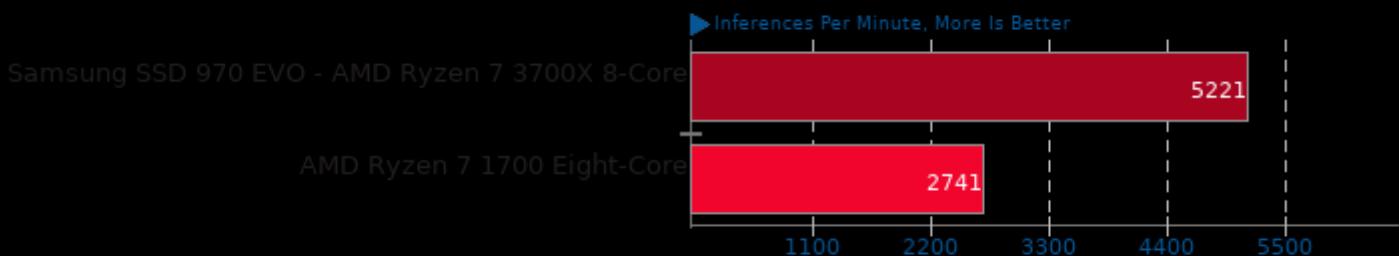
Model: shufflenet-v2-10 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -O3 -ldl -lrt

ONNX Runtime 1.6

Model: super-resolution-10 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -O3 -ldl -lrt

LAMMPS Molecular Dynamics Simulator 29Oct2020

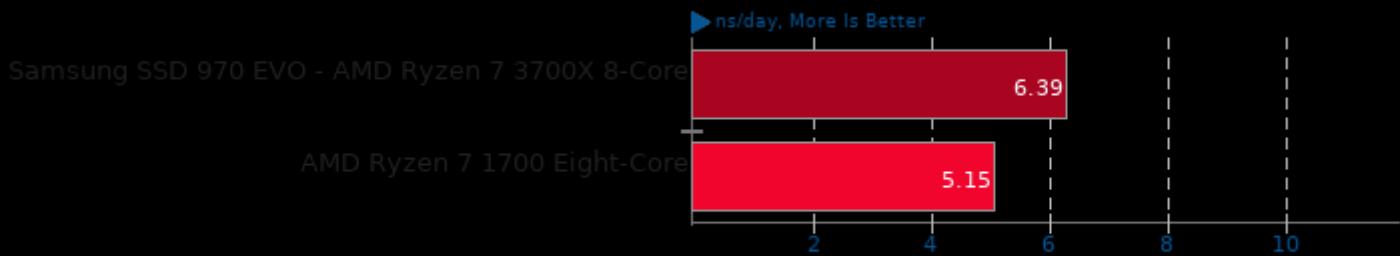
Model: 20k Atoms



1. (CXX) g++ options: -O3 -pthread -lm

LAMMPS Molecular Dynamics Simulator 29Oct2020

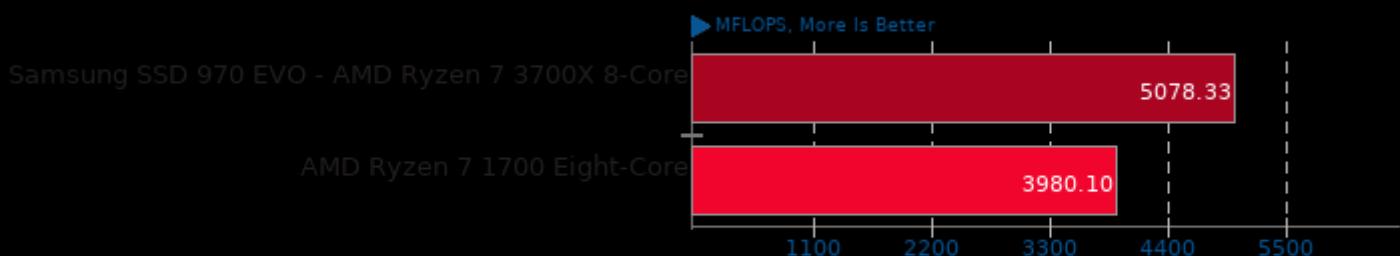
Model: Rhodopsin Protein



1. (CXX) g++ options: -O3 -pthread -lm

Himeno Benchmark 3.0

Poisson Pressure Solver



1. (CC) gcc options: -O3 -mavx2

CppPerformanceBenchmarks 9

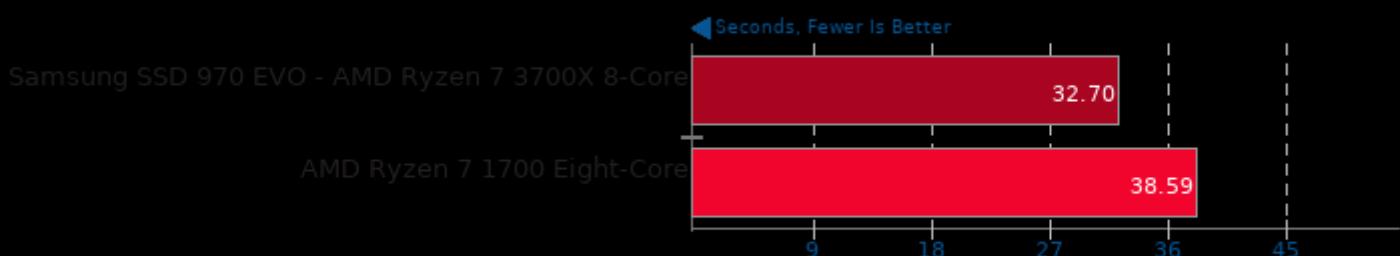
Test: Atol



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

CppPerformanceBenchmarks 9

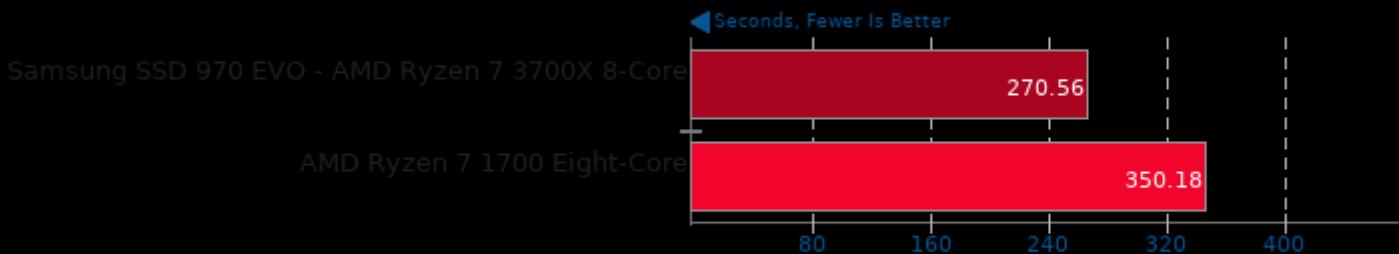
Test: Ctype



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

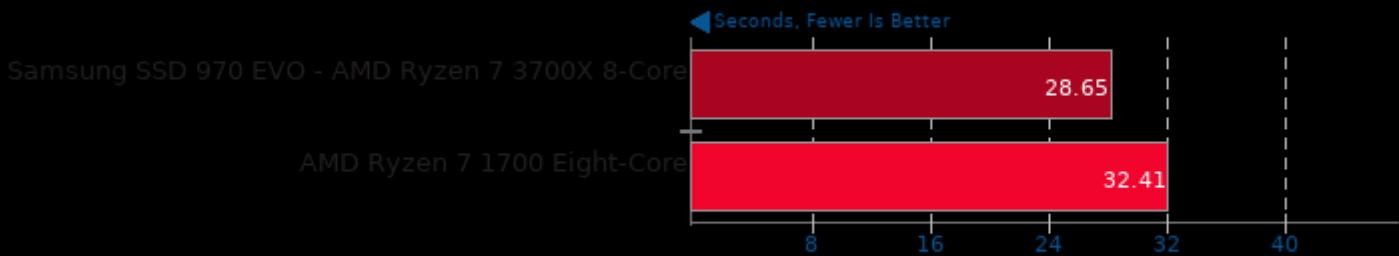
Test: Function Objects



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

CppPerformanceBenchmarks 9

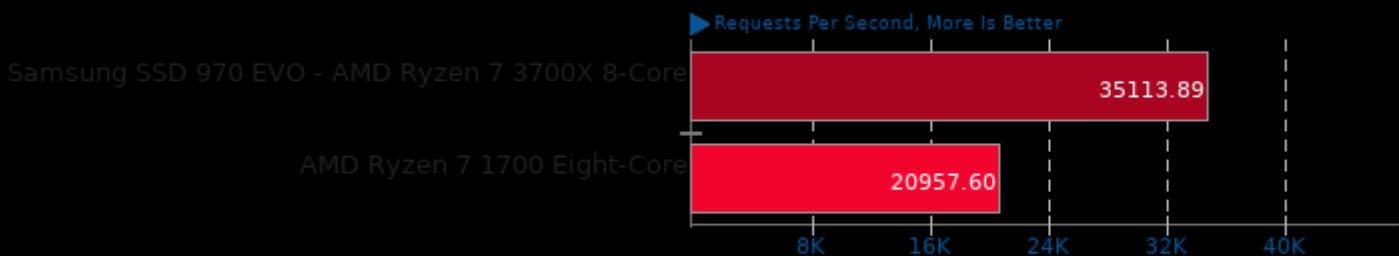
Test: Stepanov Abstraction



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

NGINX Benchmark 1.9.9

Static Web Page Serving



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

Cryptsetup

Twofish-XTS 256b Decryption



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:51.