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2024-05-31-2240

AMD EPYC 4564P 16-Core testing with a ASRockRack B650D4U v4.01 (10.12 BIOS) and ASPEED 512MB on AlmaLinux 9.4 via the Phoronix Test Suite.

Test Systems:

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Processor: AMD EPYC 4564P 16-Core @ 5.88GHz (16 Cores / 32 Threads), Motherboard: ASRockRack B650D4U v4.01 (10.12 BIOS), Chipset: AMD Device 14d8, Memory: 4 x 32 GB DDR5-3600MT/s MTC20C2085S1EC48BA1, Disk: 2 x 960GB Micron_7450_MTFDKBA960TFR, Graphics: ASPEED 512MB, Audio: AMD Rembrandt Radeon HD Audio, Network: 2 x Intel I210

OS: AlmaLinux 9.4, Kernel: 5.14.0-427.18.1.el9_4.x86_64 (x86_64), Desktop: GNOME Shell 40.10, Display Server: X Server, OpenGL: 4.6 Mesa 23.3.3 (LLVM 17.0.6 DRM 3.54), Compiler: GCC 11.4.1 20231218, File-System: xfs, Screen Resolution: 1024x768



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--enable-gnu-indirect-function --enable-gnu-unique-object --enable-host-bind-now --enable-host-pie --enable-initfini-array --enable-languages=c,c++,fortran,lto
--enable-link-serialization=1 --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man
--with-arch_32=x86-64 --with-arch_64=x86-64-v2 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic
--without-cuda-driver --without-isl

Disk Notes: NONE / attr2,inode64,logbsize=32k,logbufs=8,noquota,relatime,rw,seclabel / Block Size: 4096

Processor Notes: Scaling Governor: amd-pstate-epp powersave (EPP: balance_performance) - CPU Microcode: 0xa601206

Security Notes: SELinux + gather_data_sampling: Not affected + itlb_multihit: Not affected + I1ff: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_rstack_overflow: Mitigation of Safe RET + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced / Automatic IBRS IBPB: conditional STIBP: always-on RSB filling PBRSB-elBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

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SQLite - 4 (sec) 2.549

Standard Deviation 1.7%

SQLite - 8 (sec) 5.050

Standard Deviation 2.3%

SQLite - 16 (sec) 11.036

Standard Deviation 1%

SQLite - 32 (sec) 24.833

Standard Deviation 0.6%

Glibc Benchmarks - cos (ns) 63.5795

Standard Deviation 0.3%

Glibc Benchmarks - exp (ns) 17.3891

Standard Deviation 4.6%

Glibc Benchmarks - ffs (ns) 8.27053

Standard Deviation 1%

Glibc Benchmarks - pow (ns) 33.1454

Standard Deviation 1%

Glibc Benchmarks - sin (ns) 56.8055

Standard Deviation 0%

Glibc Benchmarks - log2 (ns) 12.4817

Standard Deviation 0%

Glibc Benchmarks - modf (ns) 9.43950

Standard Deviation 0.2%

Glibc Benchmarks - sinh (ns) 22.6855

Standard Deviation 0%

Glibc Benchmarks - sqrt (ns) 9.22964

Standard Deviation 2.3%

Glibc Benchmarks - tanh (ns) 25.0245

Standard Deviation 1.2%

Glibc Benchmarks - asinh (ns) 21.9778

Standard Deviation 0%

Glibc Benchmarks - atanh (ns) 24.6825

Standard Deviation 0.7%

Glibc Benchmarks - ffsll (ns) 8.51292

Standard Deviation 0.3%

Glibc Benchmarks - sincos (ns) 34.2452

Standard Deviation 0.6%

Glibc Benchmarks - pthread_once (ns) 8.47951

Standard Deviation 0%

Gzip Compression - L.S.T.A.T.t.g (sec) 28.261

Standard Deviation 2.4%

ptsli

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 Standard Deviation
 0.9%

 Redis - SET - 50 (Reqs/sec)
 3724011

 Standard Deviation
 5.8%

 Redis - GET - 500 (Reqs/sec)
 4915486

 Standard Deviation
 0.6%

 Redis - LPOP - 50 (Reqs/sec)
 5133457

 Standard Deviation
 8.8%

 Redis - SADD - 50 (Reqs/sec)
 4175661

 Standard Deviation
 6%

 Redis - SET - 500 (Reqs/sec)
 3955021

 Standard Deviation
 1.8%

 Redis - GET - 1000 (Reqs/sec)
 4504948

 Standard Deviation
 7.1%

 Redis - LPOP - 500 (Reqs/sec)
 5572197

Redis - GET - 50 (Reqs/sec) 5314019

Standard Deviation 4.9% Redis - LPUSH - 50 (Reqs/sec) 3278860

Standard Deviation 2.4%

Redis - SADD - 500 (Reqs/sec) 4213607

Standard Deviation 8.6%

Redis - SET - 1000 (Reqs/sec) 3885125

Standard Deviation 6.3%

Redis - LPOP - 1000 (Reqs/sec) 3218515

Standard Deviation 1.7%

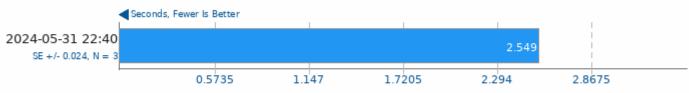
Redis - LPUSH - 500 (Reqs/sec) 3163752

Standard Deviation 2%





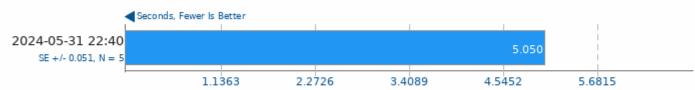




1. (CC) gcc options: -O2 -lz -lm

SQLite 3.41.2

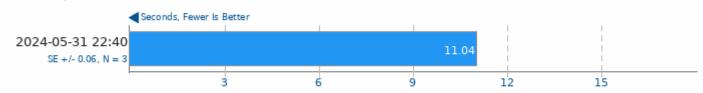
Threads / Copies: 8



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

SQLite 3.41.2

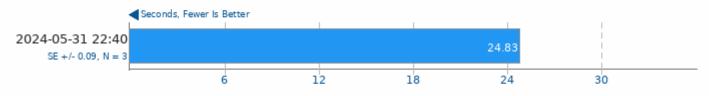
Threads / Copies: 16



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

SQLite 3.41.2

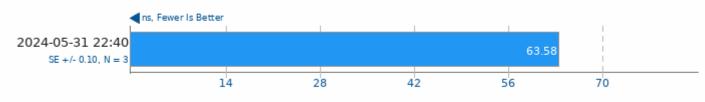
Threads / Copies: 32



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

Glibc Benchmarks 2.39

Benchmark: cos

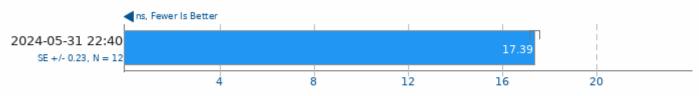


1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s



Glibc Benchmarks 2.39

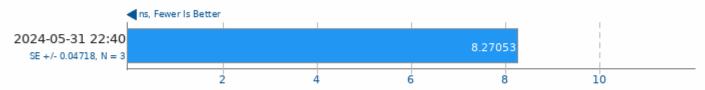




1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

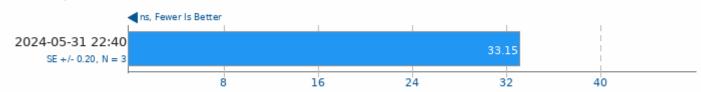
Benchmark: ffs



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

Benchmark: pow



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

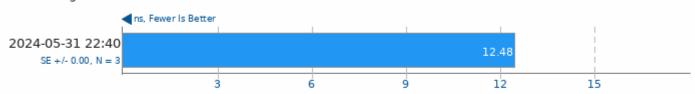
Benchmark: sin



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

Benchmark: log2

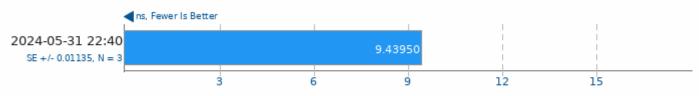


1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s



Glibc Benchmarks 2.39

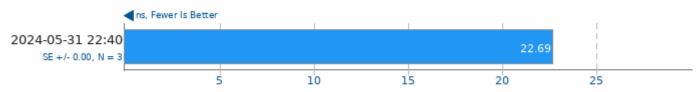




1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

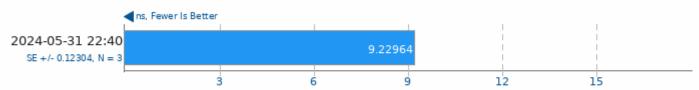
Benchmark: sinh



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

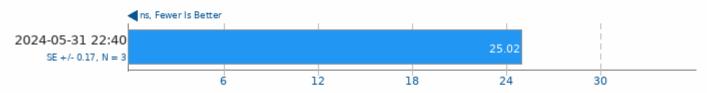
Benchmark: sqrt



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

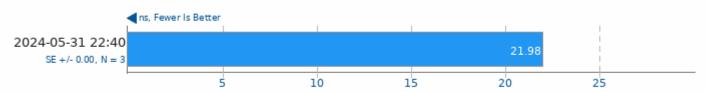
Benchmark: tanh



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

Benchmark: asinh

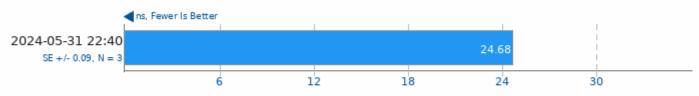


1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s



Glibc Benchmarks 2.39

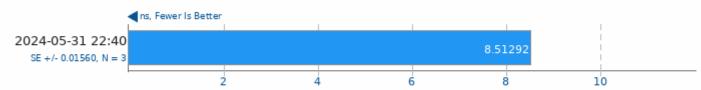




1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

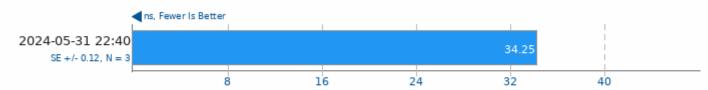
Benchmark: ffsll



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

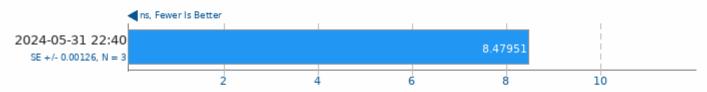
Benchmark: sincos



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Glibc Benchmarks 2.39

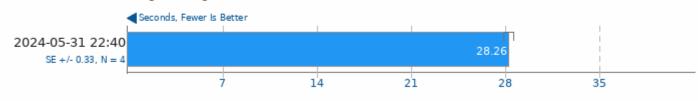
Benchmark: pthread once



1. (CC) gcc options: -pie -nostdlib -nostartfiles -lgcc -lgcc_s

Gzip Compression

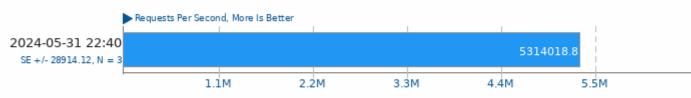
Linux Source Tree Archiving To .tar.gz







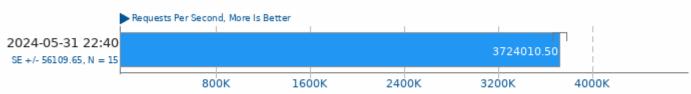




1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

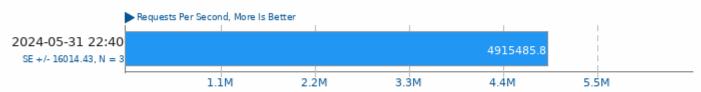
Test: SET - Parallel Connections: 50



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

Redis 7.0.4

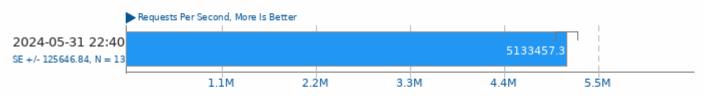
Test: GET - Parallel Connections: 500



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

Redis 7.0.4

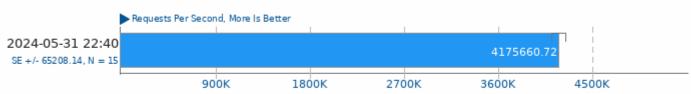
Test: LPOP - Parallel Connections: 50



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

Redis 7.0.4

Test: SADD - Parallel Connections: 50

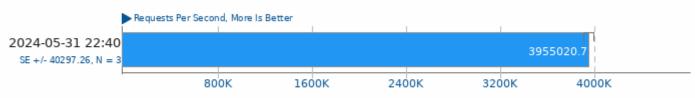


1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3





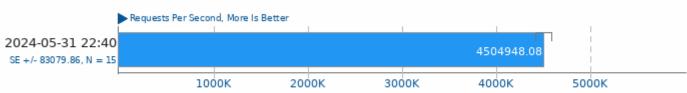




1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

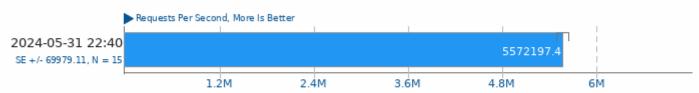
Test: GET - Parallel Connections: 1000



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

Redis 7.0.4

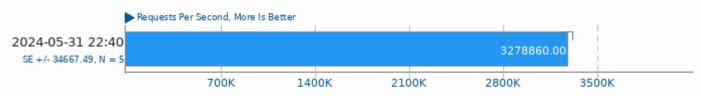
Test: LPOP - Parallel Connections: 500



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

Redis 7.0.4

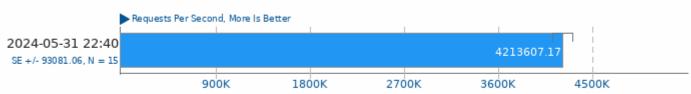
Test: LPUSH - Parallel Connections: 50



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

Redis 7.0.4

Test: SADD - Parallel Connections: 500

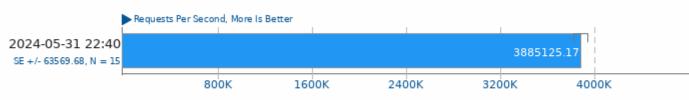


1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3





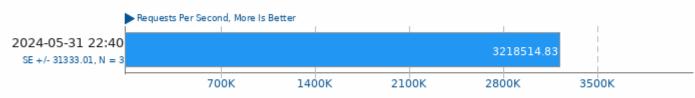




1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

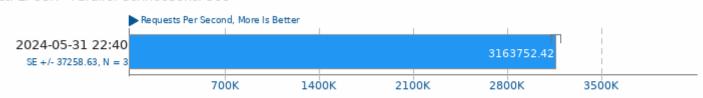
Test: LPOP - Parallel Connections: 1000



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

Redis 7.0.4

Test: LPUSH - Parallel Connections: 500



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

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