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# 2024-07-25-1938

2 x Intel Xeon Gold 6444Y testing with a Supermicro X13DDW-A v1.01 (2.1 BIOS) and ASPEED on AlmaLinux 9.4 via the Phoronix Test Suite.

## Test Systems:

### 16 x 64 GB DDR5-4800MT

Processor: 2 x Intel Xeon Gold 6444Y @ 4.00GHz (32 Cores), Motherboard: Supermicro X13DDW-A v1.01 (2.1 BIOS), Chipset: Intel Device 1bce, Memory: 16 x 64 GB DDR5-4800MT/s MTC40F2046S1RC48BA1, Disk: 7682GB KCM6XRUL7T68 + 2000GB INTEL SSDPELKX020T8, Graphics: ASPEED, Network: 2 x Mellanox MT2892

OS: AlmaLinux 9.4, Kernel: 5.14.0-427.26.1.el9_4.x86_64 (x86_64), Compiler: GCC 11.4.1 20231218, File-System: xfs, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --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: intel_cpufreq performance - CPU Microcode: 0x2b000571
Java Notes: OpenJDK Runtime Environment (Red_Hat-11.0.24.0.8-2) (build 11.0.24+8-LTS)
Python Notes: Python 3.12.1
Security Notes: SELinux + gather_data_sampling: Not affected + itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_rstack_overflow: Not affected + 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 RSB filling PBRSB-eIBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

| | 16 x 64 GB DDR5-4800MT |
|---|---|
| **LevelDB - Hot Read (us/Op)** | 23.669 |
| **LevelDB - Fill Sync (MB/s)** | 16.7 |
| **LevelDB - Fill Sync (us/Op)** | 210.843 |
| **LevelDB - Overwrite (MB/s)** | 30.7 |
| **LevelDB - Overwrite (us/Op)** | 115.237 |
| **LevelDB - Rand Fill (MB/s)** | 30.6 |
| **LevelDB - Rand Fill (us/Op)** | 115.42 |
| **LevelDB - Rand Read (us/Op)** | 23.8 |
| **LevelDB - Seek Rand (us/Op)** | 38.616 |
| **LevelDB - Rand Delete (us/Op)** | 113.018 |
| **LevelDB - Seq Fill (MB/s)** | 30.9 |
| **LevelDB - Seq Fill (us/Op)** | 114.642 |
| **SQLite - 8 (sec)** | 2.421 |
| **SQLite - 16 (sec)** | 5.205 |
| **SQLite - 32 (sec)** | 10.101 |
| **FS-Mark - 1.F.1.S (Files/s)** | 1208 |
| **FS-Mark - 5.F.1.S.4.T (Files/s)** | 1336 |
| **FS-Mark - 4.F.3.S.D.1.S (Files/s)** | 1201 |
| **FS-Mark - 1.F.1.S.N.S.F (Files/s)** | 3778 |
| **BlogBench - Read (Final Score)** | 1996833 |
| **BlogBench - Write (Final Score)** | 30232 |
| **Dbench - 1 (MB/s)** | 1850 |
| **Dbench - 6 (MB/s)** | 7493 |
| **Dbench - 12 (MB/s)** | 11146 |
| **Dbench - 48 (MB/s)** | 13676 |
| **Dbench - 128 (MB/s)** | 10512 |
| **Dbench - 256 (MB/s)** | 9641 |
| **IOR - 2MB - / (MB/s)** | 958.19 |
| **IOR - 4MB - / (MB/s)** | 953.27 |
| **IOR - 8MB - / (MB/s)** | 932.37 |
| **IOR - 16MB - / (MB/s)** | 965.54 |
| **IOR - 32MB - / (MB/s)** | 957.39 |
| **IOR - 64MB - / (MB/s)** | 926.18 |
| **IOR - 256MB - / (MB/s)** | 897.52 |
| **IOR - 512MB - / (MB/s)** | 891.22 |
| **IOR - 1024MB - / (MB/s)** | 882.15 |
| **IOR - 2MB - /home (MB/s)** | 939.11 |

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|---|---|
| **IOR - 4MB - /home (MB/s)** | 940.73 |
| **IOR - 8MB - /home (MB/s)** | 944.48 |
| **IOR - 16MB - /home (MB/s)** | 975.4 |
| **IOR - 32MB - /home (MB/s)** | 992.09 |
| **IOR - 64MB - /home (MB/s)** | 942.96 |
| **IOR - 256MB - /home (MB/s)** | 899.23 |
| **IOR - 512MB - /home (MB/s)** | 890.81 |
| **IOR - 1024MB - /home (MB/s)** | 882.7 |
| **IOR - 2MB (MB/s)** | 942.88 |
| **IOR - 4MB (MB/s)** | 937.67 |
| **IOR - 8MB (MB/s)** | 960.06 |
| **IOR - 16MB (MB/s)** | 969.6 |
| **IOR - 32MB (MB/s)** | 968.33 |
| **IOR - 64MB (MB/s)** | 938.42 |
| **IOR - 256MB (MB/s)** | 897.05 |
| **IOR - 512MB (MB/s)** | 888.71 |
| **IOR - 1024MB (MB/s)** | 884.82 |
| **RAMspeed SMP - Add - Integer (MB/s)** | 37681 |
| **RAMspeed SMP - Copy - Integer (MB/s)** | 37342 |
| **RAMspeed SMP - Scale - Integer (MB/s)** | 30167 |
| **RAMspeed SMP - Triad - Integer (MB/s)** | 35221 |
| **RAMspeed SMP - Average - Integer (MB/s)** | 34885 |
| **RAMspeed SMP - Add - Floating Point (MB/s)** | 35190 |
| **RAMspeed SMP - Copy - Floating Point (MB/s)** | 37592 |
| **RAMspeed SMP - Scale - Floating Point (MB/s)** | 34789 |
| **RAMspeed SMP - Triad - Floating Point (MB/s)** | 37552 |
| **RAMspeed SMP - Average - Floating Point (MB/s)** | 36464 |
| **Stream - Copy (MB/s)** | 376594 |
| **Stream - Scale (MB/s)** | 269727 |
| **Stream - Triad (MB/s)** | 318309 |
| **Stream - Add (MB/s)** | 315189 |
| **Tinymembench - Standard Memcpy (MB/s)** | 21761 |
| **Tinymembench - Standard Memset (MB/s)** | 37268 |
| **MBW - Memory Copy - 128 MiB (MiB/s)** | 16436 |
| **MBW - Memory Copy - 512 MiB (MiB/s)** | 15648 |
| **MBW - Memory Copy - 1024 MiB (MiB/s)** | 14195 |
| **MBW - Memory Copy - 4096 MiB (MiB/s)** | 15185 |
| **MBW - Memory Copy - 8192 MiB (MiB/s)** | 15158 |
| **MBW - M.C.F.B.S - 128 MiB (MiB/s)** | 9237 |
| **MBW - M.C.F.B.S - 512 MiB (MiB/s)** | 9010 |
| **MBW - M.C.F.B.S - 1024 MiB (MiB/s)** | 8883 |
| **MBW - M.C.F.B.S - 4096 MiB (MiB/s)** | 8636 |
| **MBW - M.C.F.B.S - 8192 MiB (MiB/s)** | 8589 |
| **t-test1 - 1 (sec)** | 15.546 |
| **t-test1 - 2 (sec)** | 4.985 |
| **pmbench - 1 - 50% (us - Page Latency)** | 0.0635 |
| **pmbench - 2 - 50% (us - Page Latency)** | 0.0693 |
| **pmbench - 4 - 50% (us - Page Latency)** | 0.0693 |

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| **pmbench - 8 - 50% (us - Page Latency)** | 0.0711 |
| **pmbench - 16 - 50% (us - Page Latency)** | 0.0717 |
| **pmbench - 32 - 50% (us - Page Latency)** | 0.0698 |
| **pmbench - 1 - 100% Reads (us - Page Latency)** | 0.0283 |
| **pmbench - 2 - 100% Reads (us - Page Latency)** | 0.0284 |
| **pmbench - 4 - 100% Reads (us - Page Latency)** | 0.0283 |
| **pmbench - 8 - 100% Reads (us - Page Latency)** | 0.0283 |
| **pmbench - 1 - 100% Writes (us - Page Latency)** | 0.0283 |
| **pmbench - 16 - 100% Reads (us - Page Latency)** | 0.0283 |
| **pmbench - 2 - 100% Writes (us - Page Latency)** | 0.0284 |
| **pmbench - 32 - 100% Reads (us - Page Latency)** | 0.0283 |
| **pmbench - 4 - 100% Writes (us - Page Latency)** | 0.0287 |
| **pmbench - 8 - 100% Writes (us - Page Latency)** | 0.0286 |
| **pmbench - 16 - 100% Writes (us - Page Latency)** | 0.0284 |
| **pmbench - 32 - 100% Writes (us - Page Latency)** | 0.0282 |
| **pmbench - 1 - 8.R.2.W (us - Page Latency)** | 0.0853 |
| **pmbench - 2 - 8.R.2.W (us - Page Latency)** | 0.0913 |
| **pmbench - 4 - 8.R.2.W (us - Page Latency)** | 0.0998 |
| **pmbench - 8 - 8.R.2.W (us - Page Latency)** | 0.0982 |
| **pmbench - 16 - 8.R.2.W (us - Page Latency)** | 0.1002 |
| **pmbench - 32 - 8.R.2.W (us - Page Latency)** | 0.0956 |
| **WireGuard + Linux Networking Stack Stress Test (sec)** | 224.505 |
| **perf-bench - Epoll Wait (ops/sec)** | 20905 |
| **perf-bench - Futex Hash (ops/sec)** | 4698100 |
| **perf-bench - Memcpy 1MB (GB/sec)** | 32.632926 |
| **perf-bench - Memset 1MB (GB/sec)** | 60.315219 |
| **perf-bench - Sched Pipe (ops/sec)** | 321780 |
| **perf-bench - Futex Lock-Pi (ops/sec)** | 530 |
| **perf-bench - Syscall Basic (ops/sec)** | 13455239 |
| **OSBench - Create Files (us/Event)** | 15.915035 |
| **OSBench - Create Threads (us/Event)** | 14.638901 |
| **OSBench - Launch Programs (us/Event)** | 51.250458 |
| **OSBench - Create Processes (us/Event)** | 45.559406 |
| **OSBench - Memory Allocations (Ns/Event)** | 70.268154 |
| **C-Blosc - blosclz shuffle - 8MB (MB/s)** | 22585 |
| **C-Blosc - blosclz shuffle - 16MB (MB/s)** | 22818 |
| **C-Blosc - blosclz shuffle - 32MB (MB/s)** | 20250 |
| **C-Blosc - blosclz shuffle - 64MB (MB/s)** | 16770 |
| **C-Blosc - blosclz noshuffle - 8MB (MB/s)** | 18555 |
| **C-Blosc - blosclz shuffle - 128MB (MB/s)** | 12703 |
| **C-Blosc - blosclz shuffle - 256MB (MB/s)** | 8658 |
| **C-Blosc - blosclz bitshuffle - 8MB (MB/s)** | 20714 |
| **C-Blosc - blosclz noshuffle - 16MB (MB/s)** | 19026 |
| **C-Blosc - blosclz noshuffle - 32MB (MB/s)** | 17240 |
| **C-Blosc - blosclz noshuffle - 64MB (MB/s)** | 14035 |
| **C-Blosc - blosclz bitshuffle - 16MB (MB/s)** | 20760 |
| **C-Blosc - blosclz bitshuffle - 32MB (MB/s)** | 18547 |
| **C-Blosc - blosclz bitshuffle - 64MB (MB/s)** | 15432 |

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| **C-Blosc - blosclz noshuffle - 128MB (MB/s)** | 10758 |
| **C-Blosc - blosclz noshuffle - 256MB (MB/s)** | 7898 |
| **C-Blosc - blosclz bitshuffle - 128MB (MB/s)** | 12016 |
| **C-Blosc - blosclz bitshuffle - 256MB (MB/s)** | 8502 |
| **IPC_benchmark - TCP Socket - 128 (Messages/sec)** | 4423185 |
| **IPC_benchmark - TCP Socket - 256 (Messages/sec)** | 4126714 |
| **IPC_benchmark - TCP Socket - 512 (Messages/sec)** | 3544940 |
| **IPC_benchmark - TCP Socket - 1024 (Messages/sec)** | 3036388 |
| **IPC_benchmark - TCP Socket - 2048 (Messages/sec)** | 1915017 |
| **IPC_benchmark - TCP Socket - 4096 (Messages/sec)** | 1225840 |
| **IPC_benchmark - Unnamed Pipe - 128 (Messages/sec)** | 2043811 |
| **IPC_benchmark - Unnamed Pipe - 256 (Messages/sec)** | 2016633 |
| **IPC_benchmark - Unnamed Pipe - 512 (Messages/sec)** | 1849473 |
| **IPC_benchmark - Unnamed Pipe - 1024 (Messages/sec)** | 1374442 |
| **IPC_benchmark - Unnamed Pipe - 2048 (Messages/sec)** | 1287691 |
| **IPC_benchmark - Unnamed Pipe - 4096 (Messages/sec)** | 890110 |
| **IPC_benchmark - FIFO Named Pipe - 128 (Messages/sec)** | 1968145 |
| **IPC_benchmark - FIFO Named Pipe - 256 (Messages/sec)** | 1836908 |
| **IPC_benchmark - FIFO Named Pipe - 512 (Messages/sec)** | 1547268 |
| **IPC_benchmark - FIFO Named Pipe - 1024 (Messages/sec)** | 1429783 |
| **IPC_benchmark - FIFO Named Pipe - 2048 (Messages/sec)** | 1184585 |
| **IPC_benchmark - FIFO Named Pipe - 4096 (Messages/sec)** | 883245 |
| **IPC_benchmark - U.U.D.S - 128 (Messages/sec)** | 1694331 |
| **IPC_benchmark - U.U.D.S - 256 (Messages/sec)** | 1476860 |
| **IPC_benchmark - U.U.D.S - 512 (Messages/sec)** | 1301881 |
| **IPC_benchmark - U.U.D.S - 1024 (Messages/sec)** | 1449330 |
| **IPC_benchmark - U.U.D.S - 2048 (Messages/sec)** | 1339334 |
| **IPC_benchmark - U.U.D.S - 4096 (Messages/sec)** | 952362 |
| **Crypto++ - All Algorithms (MiB/s)** | 1912 |
| **Crypto++ - Keyed Algorithms (MiB/s)** | 683.592656 |
| **Crypto++ - Unkeyed Algorithms (MiB/s)** | 512.970767 |
| **Etcpak - Multi-Threaded - DXT1 (Mpx/s)** | 6757 |
| **Etcpak - Multi-Threaded - ETC2 (Mpx/s)** | 6714 |
| **Etcpak - Single-Threaded - DXT1 (Mpx/s)** | 261.166 |
| **Etcpak - Single-Threaded - ETC2 (Mpx/s)** | 258.513 |
| **High Performance Conjugate Gradient - 104 104 104 - 60 (GFLOP/s)** | 44.5064 |
| **High Performance Conjugate Gradient - 144 144 144 - 60 (GFLOP/s)** | 43.5053 |
| **High Performance Conjugate Gradient - 160 160 160 - 60 (GFLOP/s)** | 43.2296 |
| **High Performance Conjugate Gradient - 192 192 192 - 60 (GFLOP/s)** | 43.5839 |
| **High Performance Conjugate Gradient - 104 104 104 - 1800** | 44.3658 |
| **High Performance Conjugate Gradient - 144 144 144 - 1800** | 43.3802 |
| **High Performance Conjugate Gradient - 160 160 160 - 1800** | 42.8878 |
| **High Performance Conjugate Gradient - 192 192 192 - 1800** | 43.3268 |
| **NAS Parallel Benchmarks - BT.C (Mop/s)** | 33046 |
| **NAS Parallel Benchmarks - CG.C (Mop/s)** | 24502 |
| **NAS Parallel Benchmarks - EP.C (Mop/s)** | 3810 |
| **NAS Parallel Benchmarks - EP.D (Mop/s)** | 3828 |
| **NAS Parallel Benchmarks - FT.C (Mop/s)** | 32740 |

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| **NAS Parallel Benchmarks - IS.D (Mop/s)** | 1902 |
| **NAS Parallel Benchmarks - LU.C (Mop/s)** | 32301 |
| **NAS Parallel Benchmarks - MG.C (Mop/s)** | 34848 |
| **NAS Parallel Benchmarks - SP.B (Mop/s)** | 14483 |
| **NAS Parallel Benchmarks - SP.C (Mop/s)** | 14909 |
| **Quicksilver - CTS2 (Figure Of Merit)** | 17180000 |
| **Quicksilver - CORAL2 P1 (Figure Of Merit)** | 16480000 |
| **Quicksilver - CORAL2 P2 (Figure Of Merit)** | 10090000 |
| **miniBUDE - OpenMP - BM1 (GFInst/s)** | 1771 |
| **miniBUDE - OpenMP - BM1 (Billion Interactions/s)** | 70.842 |
| **miniBUDE - OpenMP - BM2 (GFInst/s)** | 1773 |
| **miniBUDE - OpenMP - BM2 (Billion Interactions/s)** | 70.905 |
| **CloverLeaf - clover_bm (sec)** | 10.63 |
| **CloverLeaf - clover_bm16 (sec)** | 230.15 |
| **CloverLeaf - clover_bm64_short (sec)** | 28.74 |
| **NAMD - A.w.3.5.A (ns/day)** | 5.92463 |
| **NAMD - S.w.1.0.6.A (ns/day)** | 1.71269 |
| **Dolfyn - C.F.D (sec)** | 15.013 |
| **lzbench - XZ 0 - Compression (MB/s)** | 50 |
| **lzbench - XZ 0 - Decompression (MB/s)** | 129 |
| **lzbench - Zstd 1 - Compression (MB/s)** | 580 |
| **lzbench - Zstd 1 - Decompression (MB/s)** | 1936 |
| **lzbench - Zstd 8 - Compression (MB/s)** | 116 |
| **lzbench - Zstd 8 - Decompression (MB/s)** | 2103 |
| **lzbench - Crush 0 - Compression (MB/s)** | 147 |
| **lzbench - Crush 0 - Decompression (MB/s)** | 501 |
| **lzbench - Brotli 0 - Compression (MB/s)** | 525 |
| **lzbench - Brotli 0 - Decompression (MB/s)** | 602 |
| **lzbench - Brotli 2 - Compression (MB/s)** | 230 |
| **lzbench - Brotli 2 - Decompression (MB/s)** | 712 |
| **lzbench - Libdeflate 1 - Compression (MB/s)** | 291 |
| **lzbench - Libdeflate 1 - Decompression (MB/s)** | 1283 |
| **SMHasher - wyhash (MiB/sec)** | 24840 |
| **SMHasher - wyhash (cycles/hash)** | 22.514 |
| **SMHasher - SHA3-256 (MiB/sec)** | 199.97 |
| **SMHasher - SHA3-256 (cycles/hash)** | 1979 |
| **SMHasher - Spooky32 (MiB/sec)** | 14874 |
| **SMHasher - Spooky32 (cycles/hash)** | 40.568 |
| **SMHasher - fasthash32 (MiB/sec)** | 6356 |
| **SMHasher - fasthash32 (cycles/hash)** | 33.805 |
| **SMHasher - FarmHash128 (MiB/sec)** | 16001 |
| **SMHasher - FarmHash128 (cycles/hash)** | 64.709 |
| **SMHasher - t1ha2_atonce (MiB/sec)** | 18105 |
| **SMHasher - t1ha2_atonce (cycles/hash)** | 30.015 |
| **SMHasher - F.x.A (MiB/sec)** | 23682 |
| **SMHasher - F.x.A (cycles/hash)** | 39.342 |
| **SMHasher - t.x (MiB/sec)** | 60584 |
| **SMHasher - t.x (cycles/hash)** | 30.209 |

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| **SMHasher - M.x.A.N (MiB/sec)** | 38828 |
| **SMHasher - M.x.A.N (cycles/hash)** | 65.114 |
| **Algebraic Multi-Grid Benchmark (Figure Of Merit)** | 2273008000 |
| **libxsmm - 128 (GFLOPS/s)** | 2011 |
| **libxsmm - 256 (GFLOPS/s)** | 2328 |
| **libxsmm - 32 (GFLOPS/s)** | 779 |
| **libxsmm - 64 (GFLOPS/s)** | 1354 |
| **FFTE - N.2.3.C.F.R (MFLOPS)** | 141831 |
| **Laghos - T.P.P (Major Kernels Rate)** | 238.39 |
| **Laghos - S.B.W.u.m (Major Kernels Rate)** | 306.27 |
| **FFTW - Stock - 1D FFT Size 32 (Mflops)** | 12464 |
| **FFTW - Stock - 1D FFT Size 64 (Mflops)** | 11836 |
| **FFTW - Stock - 2D FFT Size 32 (Mflops)** | 12610 |
| **FFTW - Stock - 2D FFT Size 64 (Mflops)** | 10945 |
| **FFTW - Stock - 1D FFT Size 128 (Mflops)** | 11412 |
| **FFTW - Stock - 1D FFT Size 256 (Mflops)** | 11192 |
| **FFTW - Stock - 1D FFT Size 512 (Mflops)** | 11320 |
| **FFTW - Stock - 2D FFT Size 128 (Mflops)** | 11156 |
| **FFTW - Stock - 2D FFT Size 256 (Mflops)** | 10489 |
| **FFTW - Stock - 2D FFT Size 512 (Mflops)** | 9365 |
| **FFTW - Stock - 1D FFT Size 1024 (Mflops)** | 11370 |
| **FFTW - Stock - 1D FFT Size 2048 (Mflops)** | 10941 |
| **FFTW - Stock - 1D FFT Size 4096 (Mflops)** | 10763 |
| **FFTW - Stock - 2D FFT Size 1024 (Mflops)** | 9350 |
| **FFTW - Stock - 2D FFT Size 2048 (Mflops)** | 7759 |
| **FFTW - Stock - 2D FFT Size 4096 (Mflops)** | 7435 |
| **FFTW - Float + SSE - 1D FFT Size 32 (Mflops)** | 22171 |
| **FFTW - Float + SSE - 1D FFT Size 64 (Mflops)** | 29437 |
| **FFTW - Float + SSE - 2D FFT Size 32 (Mflops)** | 62133 |
| **FFTW - Float + SSE - 2D FFT Size 64 (Mflops)** | 61749 |
| **FFTW - Float + SSE - 1D FFT Size 128 (Mflops)** | 35974 |
| **FFTW - Float + SSE - 1D FFT Size 256 (Mflops)** | 57451 |
| **FFTW - Float + SSE - 1D FFT Size 512 (Mflops)** | 81973 |
| **FFTW - Float + SSE - 2D FFT Size 128 (Mflops)** | 44883 |
| **FFTW - Float + SSE - 2D FFT Size 256 (Mflops)** | 40813 |
| **FFTW - Float + SSE - 2D FFT Size 512 (Mflops)** | 44835 |
| **FFTW - Float + SSE - 1D FFT Size 1024 (Mflops)** | 93550 |
| **FFTW - Float + SSE - 1D FFT Size 2048 (Mflops)** | 90465 |
| **FFTW - Float + SSE - 1D FFT Size 4096 (Mflops)** | 72072 |
| **FFTW - Float + SSE - 2D FFT Size 1024 (Mflops)** | 36673 |
| **FFTW - Float + SSE - 2D FFT Size 2048 (Mflops)** | 38008 |
| **FFTW - Float + SSE - 2D FFT Size 4096 (Mflops)** | 21760 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float - 128 (GFLOP/s)** | 180.977 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float - 256 (GFLOP/s)** | 92.2834 |

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|---|---|
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float - 512 (GFLOP/s)** | 88.2746 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float - 128 (GFLOP/s)** | 271.345 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float - 256 (GFLOP/s)** | 190.198 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float - 512 (GFLOP/s)** | 168.584 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double - 128 (GFLOP/s)** | 84.9048 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double - 256 (GFLOP/s)** | 47.2935 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double - 512 (GFLOP/s)** | 50.6054 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float - 1024 (GFLOP/s)** | 91.346 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float - 128 (GFLOP/s)** | 137.479 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float - 256 (GFLOP/s)** | 94.645 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float - 512 (GFLOP/s)** | 85.5799 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double - 128 (GFLOP/s)** | 157.751 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double - 256 (GFLOP/s)** | 91.1028 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double - 512 (GFLOP/s)** | 91.3341 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float - 1024 (GFLOP/s)** | 169.613 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float - 128 (GFLOP/s)** | 217.786 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float - 256 (GFLOP/s)** | 202.401 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float - 512 (GFLOP/s)** | 167.559 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double - 1024 (GFLOP/s)** | 55.4294 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double - 128 (GFLOP/s)** | 36.5052 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double - 256 (GFLOP/s)** | 47.2144 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double - 512 (GFLOP/s)** | 47.2827 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float - 1024 (GFLOP/s)** | 93.6096 |

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|---|---|
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double - 1024 (GFLOP/s)** | 99.6252 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double - 128 (GFLOP/s)** | 131.392 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double - 256 (GFLOP/s)** | 93.118 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double - 512 (GFLOP/s)** | 88.2925 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float - 1024 (GFLOP/s)** | 186.292 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double - 1024 (GFLOP/s)** | 55.4614 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double - 1024 (GFLOP/s)** | 104.865 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float-long - 128 (GFLOP/s)** | 180.928 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float-long - 256 (GFLOP/s)** | 92.4743 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float-long - 512 (GFLOP/s)** | 87.7999 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float-long - 128 (GFLOP/s)** | 271.129 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float-long - 256 (GFLOP/s)** | 190.787 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float-long - 512 (GFLOP/s)** | 168.608 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double-long - 128 (GFLOP/s)** | 84.2176 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double-long - 256 (GFLOP/s)** | 47.161 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double-long - 512 (GFLOP/s)** | 50.4779 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - float-long - 1024 (GFLOP/s)** | 91.2882 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float-long - 128 (GFLOP/s)** | 138.809 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float-long - 256 (GFLOP/s)** | 94.8088 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float-long - 512 (GFLOP/s)** | 85.7265 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double-long - 128 (GFLOP/s)** | 157.811 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double-long - 256 (GFLOP/s)** | 90.769 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double-long - 512 (GFLOP/s)** | 91.4375 |

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| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - float-long - 1024 (GFLOP/s)** | 169.735 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float-long - 128 (GFLOP/s)** | 227.879 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float-long - 256 (GFLOP/s)** | 203.451 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float-long - 512 (GFLOP/s)** | 167.901 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - FFTW - double-long - 1024 (GFLOP/s)** | 55.5389 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double-long - 128 (GFLOP/s)** | 70.2272 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double-long - 256 (GFLOP/s)** | 47.1348 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double-long - 512 (GFLOP/s)** | 47.2822 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - float-long - 1024 (GFLOP/s)** | 93.436 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - FFTW - double-long - 1024 (GFLOP/s)** | 101.146 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double-long - 128 (GFLOP/s)** | 131.443 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double-long - 256 (GFLOP/s)** | 92.6766 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double-long - 512 (GFLOP/s)** | 88.1414 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - float-long - 1024 (GFLOP/s)** | 187.405 |
| **HeFFTe - Highly Efficient FFT for Exascale - c2c - Stock - double-long - 1024 (GFLOP/s)** | 54.6859 |
| **HeFFTe - Highly Efficient FFT for Exascale - r2c - Stock - double-long - 1024 (GFLOP/s)** | 102.214 |
| **Pennant - sedovbig (Hydro Cycle Time - sec)** | 19.23589 |
| **Pennant - leblancbig (Hydro Cycle Time - sec)** | 6.545423 |
| **Timed MrBayes Analysis - P.P.A (sec)** | 87.388 |
| **QMCPACK - H4_ae (Execution Time - sec)** | 10.04 |
| **QMCPACK - Li2_STO_ae (Execution Time - sec)** | 97.586 |
| **QMCPACK - LiH_ae_MSD (Execution Time - sec)** | 59.253 |
| **QMCPACK - simple-H2O (Execution Time - sec)** | 20.681 |
| **QMCPACK - O_ae_pyscf_UHF (Execution Time - sec)** | 141.12 |
| **QMCPACK - FeCO6_b3lyp_gms (Execution Time - sec)** | 83.779 |
| **Timed HMMer Search - P.D.S (sec)** | 89.869 |
| **Timed MAFFT Alignment - M.S.A - LSU RNA (sec)** | 7.427 |
| **Monte Carlo Simulations of Ionised Nebulae - Gas HII40 (sec)** | 12.898 |
| **Monte Carlo Simulations of Ionised Nebulae - Dust 2D tau100.0** | 141.643 |
| **Quantum ESPRESSO - AUSURF112 (sec)** | 199.1 |
| **Remhos - S.R.E (sec)** | 19.243 |
| **nekRS - Kershaw (flops/rank)** | 9532350000 |

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|---|---|
| **nekRS - TurboPipe Periodic (flops/rank)** | 8077020000 |
| **LAMMPS Molecular Dynamics Simulator - 20k Atoms (ns/day)** | 30.057 |
| **LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein** | 28.748 |
| **LULESH (z/s)** | 38134 |
| **BLAKE2 (Cycles/Byte)** | 5.3 |
| **FFmpeg - libx264 - Live (FPS)** | 220.61 |
| **FFmpeg - libx265 - Live (FPS)** | 150.86 |
| **FFmpeg - libx264 - Upload (FPS)** | 13.46 |
| **FFmpeg - libx265 - Upload (FPS)** | 29.28 |
| **FFmpeg - libx264 - Platform (FPS)** | 50.77 |
| **FFmpeg - libx265 - Platform (FPS)** | 58.86 |
| **FFmpeg - libx264 - Video On Demand (FPS)** | 50.88 |
| **FFmpeg - libx265 - Video On Demand (FPS)** | 58.83 |
| **libgav1 - Chimera 1080p (FPS)** | 183.51 |
| **libgav1 - Summer Nature 4K (FPS)** | 69.17 |
| **libgav1 - S.N.1 (FPS)** | 218.71 |
| **libgav1 - C.1.1.b (FPS)** | 100.9 |
| **Bork File Encrypter - F.E.T (sec)** | 6.568 |
| **Renaissance - Scala Dotty (ms)** | 556.8 |
| **Renaissance - Rand Forest (ms)** | 541.6 |
| **Renaissance - Apache Spark Bayes (ms)** | 426.9 |
| **Renaissance - Savina Reactors.IO (ms)** | 9084 |
| **Renaissance - A.S.P (ms)** | 2754 |
| **Renaissance - F.H.R (ms)** | 2259 |
| **Renaissance - I.M.D.S (ms)** | 3391 |
| **Renaissance - A.U.C.T (ms)** | 13527 |
| **Renaissance - G.A.U.J.F (ms)** | 1560 |
| **CacheBench - Read (MB/s)** | 15260 |
| **CacheBench - Write (MB/s)** | 56879 |
| **CacheBench - R.M.W (MB/s)** | 112181 |
| **LZ4 Compression - 1 - Compression Speed (MB/s)** | 684.4 |
| **LZ4 Compression - 1 - D.S (MB/s)** | 4113 |
| **LZ4 Compression - 2 - Compression Speed (MB/s)** | 322.67 |
| **LZ4 Compression - 2 - D.S (MB/s)** | 3668 |
| **LZ4 Compression - 3 - Compression Speed (MB/s)** | 117.24 |
| **LZ4 Compression - 3 - D.S (MB/s)** | 3837 |
| **LZ4 Compression - 9 - Compression Speed (MB/s)** | 40.8 |
| **LZ4 Compression - 9 - D.S (MB/s)** | 4009 |
| **LZ4 Compression - 12 - Compression Speed (MB/s)** | 13.34 |
| **LZ4 Compression - 12 - D.S (MB/s)** | 4064 |
| **Zstd Compression - 3 - Compression Speed (MB/s)** | 4190 |
| **Zstd Compression - 8 - Compression Speed (MB/s)** | 1196 |
| **Zstd Compression - 8 - D.S (MB/s)** | 1592 |
| **Zstd Compression - 12 - Compression Speed (MB/s)** | 293.9 |
| **Zstd Compression - 12 - D.S (MB/s)** | 1484 |
| **Zstd Compression - 19 - Compression Speed (MB/s)** | 17.9 |
| **Zstd Compression - 19 - D.S (MB/s)** | 1293 |
| **Zstd Compression - 3, Long Mode - Compression Speed (MB/s)** | 956.5 |

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| **Zstd Compression - 3, Long Mode - D.S (MB/s)** | 1583 |
| **Zstd Compression - 8, Long Mode - Compression Speed (MB/s)** | 917.8 |
| **Zstd Compression - 8, Long Mode - D.S (MB/s)** | 1572 |
| **Zstd Compression - 19, Long Mode - Compression Speed (MB/s)** | 9.29 |
| **Zstd Compression - 19, Long Mode - D.S (MB/s)** | 1260 |
| **JPEG-XL libjxl - PNG - 80 (MP/s)** | 57.832 |
| **JPEG-XL libjxl - PNG - 90 (MP/s)** | 54.962 |
| **JPEG-XL libjxl - JPEG - 80 (MP/s)** | 59.126 |
| **JPEG-XL libjxl - JPEG - 90 (MP/s)** | 52.741 |
| **JPEG-XL libjxl - PNG - 100 (MP/s)** | 33.622 |
| **JPEG-XL libjxl - JPEG - 100 (MP/s)** | 33.318 |
| **JPEG-XL Decoding libjxl - 1 (MP/s)** | 67.847 |
| **JPEG-XL Decoding libjxl - All (MP/s)** | 852.841 |
| **WebP Image Encode - Default (MP/s)** | 18.21 |
| **WebP Image Encode - Quality 100 (MP/s)** | 11.53 |
| **WebP Image Encode - Q.1.L (MP/s)** | 1.66 |
| **WebP Image Encode - Q.1.H.C (MP/s)** | 3.66 |
| **WebP Image Encode - Q.1.L.H.C (MP/s)** | 0.64 |
| **WebP2 Image Encode - Default (MP/s)** | 11.93 |
| **WebP2 Image Encode - Q.7.C.E.7 (MP/s)** | 0.42 |
| **WebP2 Image Encode - Q.9.C.E.7 (MP/s)** | 0.21 |
| **WebP2 Image Encode - Q.1.C.E.5 (MP/s)** | 10.92 |
| **WebP2 Image Encode - Q.1.L.C (MP/s)** | 0.04 |
| **srsRAN Project - P.P.B.T.T (Mbps)** | 20401 |
| **srsRAN Project - P.P.B.T.T (Mbps)** | 1801 |
| **srsRAN Project - P.P.B.T.T (Mbps)** | 804.5 |
| **srsRAN Project - P.P.B.T.T (Mbps)** | 129.7 |
| **Nettle - aes256 (Mbyte/s)** | 9588 |
| **Nettle - chacha (Mbyte/s)** | 1258 |
| **Nettle - sha512 (Mbyte/s)** | 661.3 |
| **Nettle - poly1305-aes (Mbyte/s)** | 3935 |
| **LuaJIT - Composite (Mflops)** | 1849 |
| **LuaJIT - Monte Carlo (Mflops)** | 575.22 |
| **LuaJIT - F.F.T (Mflops)** | 428.21 |
| **LuaJIT - S.M.M (Mflops)** | 2215 |
| **LuaJIT - D.L.M.F (Mflops)** | 3801 |
| **LuaJIT - J.S.O.R (Mflops)** | 2226 |
| **Botan - KASUMI (MiB/s)** | 100.801 |
| **Botan - KASUMI - Decrypt (MiB/s)** | 96.525 |
| **Botan - AES-256 (MiB/s)** | 6977 |
| **Botan - AES-256 - Decrypt (MiB/s)** | 6958 |
| **Botan - Twofish (MiB/s)** | 360.739 |
| **Botan - Twofish - Decrypt (MiB/s)** | 369.352 |
| **Botan - Blowfish (MiB/s)** | 436.651 |
| **Botan - Blowfish - Decrypt (MiB/s)** | 436.739 |
| **Botan - CAST-256 (MiB/s)** | 136.693 |
| **Botan - CAST-256 - Decrypt (MiB/s)** | 136.851 |
| **Botan - ChaCha20Poly1305 (MiB/s)** | 926.54 |

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| **Botan - ChaCha20Poly1305 - Decrypt (MiB/s)** | 930.453 |
| **LuaRadio - F.B.t.B.F.F (MiB/s)** | 1310 |
| **LuaRadio - F.D.F (MiB/s)** | 239.8 |
| **LuaRadio - Hilbert Transform (MiB/s)** | 750.5 |
| **LuaRadio - Complex Phase (MiB/s)** | 639.7 |
| **LibRaw - P.P.B (Mpix/sec)** | 51.24 |
| **Crafty - Elapsed Time (Nodes/s)** | 10479541 |
| **TSCP - A.C.P (Nodes/s)** | 1529938 |
| **John The Ripper - bcrypt (Real C/S)** | 57206 |
| **John The Ripper - WPA PSK (Real C/S)** | 274636 |
| **John The Ripper - Blowfish (Real C/S)** | 57177 |
| **John The Ripper - HMAC-SHA512 (Real C/S)** | 230120000 |
| **John The Ripper - MD5 (Real C/S)** | 6582000 |
| **LuxCoreRender - DLSC - CPU (M samples/sec)** | 5.3 |
| **LuxCoreRender - Danish Mood - CPU (M samples/sec)** | 3.99 |
| **LuxCoreRender - Orange Juice - CPU (M samples/sec)** | 8.54 |
| **LuxCoreRender - LuxCore Benchmark - CPU (M samples/sec)** | 4.36 |
| **LuxCoreRender - R.C.a.P - CPU (M samples/sec)** | 11.42 |
| **GraphicsMagick - Swirl (Iterations/min)** | 386 |
| **GraphicsMagick - Rotate (Iterations/min)** | 263 |
| **GraphicsMagick - Sharpen (Iterations/min)** | 125 |
| **GraphicsMagick - Enhanced (Iterations/min)** | 138 |
| **GraphicsMagick - Resizing (Iterations/min)** | 846 |
| **GraphicsMagick - Noise-Gaussian (Iterations/min)** | 141 |
| **GraphicsMagick - HWB Color Space (Iterations/min)** | 515 |
| **easyWave - e.G.B.S - 240 (sec)** | 2.127 |
| **easyWave - e.G.B.S - 1200 (sec)** | 62.596 |
| **easyWave - e.G.B.S - 2400 (sec)** | 166.583 |
| **dav1d - Chimera 1080p (FPS)** | 707.53 |
| **dav1d - Summer Nature 4K (FPS)** | 385.14 |
| **dav1d - S.N.1 (FPS)** | 1131 |
| **dav1d - C.1.1.b (FPS)** | 645.28 |
| **Kvazaar - Bosphorus 4K - Slow (FPS)** | 23.91 |
| **Kvazaar - Bosphorus 4K - Medium (FPS)** | 24.75 |
| **Kvazaar - Bosphorus 1080p - Slow (FPS)** | 81.22 |
| **Kvazaar - Bosphorus 1080p - Medium (FPS)** | 84.61 |
| **Kvazaar - Bosphorus 4K - Very Fast (FPS)** | 51.84 |
| **Kvazaar - Bosphorus 4K - Super Fast (FPS)** | 69.17 |
| **Kvazaar - Bosphorus 4K - Ultra Fast (FPS)** | 88.08 |
| **Kvazaar - Bosphorus 1080p - Very Fast (FPS)** | 185.92 |
| **Kvazaar - Bosphorus 1080p - Super Fast (FPS)** | 250.61 |
| **Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)** | 296.8 |
| **rav1e - 1 (FPS)** | 1.091 |
| **rav1e - 5 (FPS)** | 4.635 |
| **rav1e - 6 (FPS)** | 6.196 |
| **rav1e - 10 (FPS)** | 15.938 |
| **SVT-AV1 - Preset 3 - Bosphorus 4K (FPS)** | 6.151 |
| **SVT-AV1 - Preset 5 - Bosphorus 4K (FPS)** | 17.826 |

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|---|---|
| **SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)** | 74.724 |
| **SVT-AV1 - Preset 13 - Bosphorus 4K (FPS)** | 205.047 |
| **SVT-AV1 - Preset 3 - Bosphorus 1080p (FPS)** | 20.266 |
| **SVT-AV1 - Preset 5 - Bosphorus 1080p (FPS)** | 69.318 |
| **SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)** | 169.672 |
| **SVT-AV1 - Preset 13 - Bosphorus 1080p (FPS)** | 674.206 |
| **SVT-HEVC - 1 - Bosphorus 4K (FPS)** | 7.91 |
| **SVT-HEVC - 10 - Bosphorus 4K (FPS)** | 231.66 |
| **SVT-HEVC - 1 - Bosphorus 1080p (FPS)** | 30.9 |
| **SVT-HEVC - 7 - Bosphorus 1080p (FPS)** | 380.47 |
| **SVT-HEVC - 10 - Bosphorus 1080p (FPS)** | 704.23 |
| **SVT-VP9 - VMAF Optimized - Bosphorus 4K (FPS)** | 156.62 |
| **SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)** | 530.29 |
| **SVT-VP9 - P.S.O - Bosphorus 4K (FPS)** | 166.43 |
| **SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)** | 538.92 |
| **SVT-VP9 - V.Q.O - Bosphorus 4K (FPS)** | 137.99 |
| **SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)** | 447.86 |
| **uvg266 - Bosphorus 4K - Slow (FPS)** | 14.82 |
| **uvg266 - Bosphorus 4K - Medium (FPS)** | 16.68 |
| **uvg266 - Bosphorus 1080p - Slow (FPS)** | 54.49 |
| **uvg266 - Bosphorus 1080p - Medium (FPS)** | 60.69 |
| **uvg266 - Bosphorus 4K - Very Fast (FPS)** | 38.47 |
| **uvg266 - Bosphorus 4K - Super Fast (FPS)** | 39.13 |
| **uvg266 - Bosphorus 4K - Ultra Fast (FPS)** | 44.44 |
| **uvg266 - Bosphorus 1080p - Very Fast (FPS)** | 149.49 |
| **uvg266 - Bosphorus 1080p - Super Fast (FPS)** | 155.59 |
| **uvg266 - Bosphorus 1080p - Ultra Fast (FPS)** | 172.33 |
| **VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)** | 7.75 |
| **VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)** | 16.16 |
| **VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)** | 15.75 |
| **VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)** | 30.44 |
| **VVenC - Bosphorus 4K - Fast (FPS)** | 7.937 |
| **VVenC - Bosphorus 4K - Faster (FPS)** | 17.316 |
| **VVenC - Bosphorus 1080p - Fast (FPS)** | 23.014 |
| **VVenC - Bosphorus 1080p - Faster (FPS)** | 52.599 |
| **x264 - Bosphorus 4K (FPS)** | 78.82 |
| **x264 - Bosphorus 1080p (FPS)** | 273.15 |
| **x265 - Bosphorus 4K (FPS)** | 32.27 |
| **x265 - Bosphorus 1080p (FPS)** | 107.99 |
| **ACES DGEMM - S.F.P.R (GFLOP/s)** | 18.351938 |
| **Intel Open Image Denoise - RT.hdr_alb_nrm.3840x2160 - CPU-Only (Images / Sec)** | 2.61 |
| **Intel Open Image Denoise - RT.ldr_alb_nrm.3840x2160 - CPU-Only (Images / Sec)** | 2.62 |
| **Intel Open Image Denoise - RTLightmap.hdr.4096x4096 - CPU-Only (Images / Sec)** | 1.23 |
| **OpenVKL - v.I (Items / Sec)** | 969 |
| **OpenVKL - v.S (Items / Sec)** | 337 |

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|---|---|
| **OSPRay - particle_volume/ao/real_time (Items/sec)** | 10.208 |
| **OSPRay - particle_volume/scivis/real_time (Items/sec)** | 10.2215 |
| **OSPRay - particle_volume/pathtracer/real_time (Items/sec)** | 185.387 |
| **OSPRay - gravity_spheres_volume/dim_512/ao/real_time** | 11.5859 |
| **OSPRay - gravity_spheres_volume/dim_512/scivis/real_time** | 11.5278 |
| **OSPRay - gravity_spheres_volume/dim_512/pathtracer/real_time (Items/sec)** | 14.3162 |
| **Himeno Benchmark - P.P.S (MFLOPS)** | 6885 |
| **7-Zip Compression - Compression Rating (MIPS)** | 244563 |
| **7-Zip Compression - D.R (MIPS)** | 148503 |
| **Stockfish - Chess Benchmark (Nodes/s)** | 49551098 |
| **asmFish - 1.H.M.2.D (Nodes/s)** | 80915560 |
| **Stargate Digital Audio Workstation - 44100 - 512 (Render Ratio)** | 6.315086 |
| **Stargate Digital Audio Workstation - 96000 - 512 (Render Ratio)** | 4.297414 |
| **Stargate Digital Audio Workstation - 192000 - 512 (Render Ratio)** | 2.633351 |
| **Stargate Digital Audio Workstation - 44100 - 1024 (Render Ratio)** | 7.282747 |
| **Stargate Digital Audio Workstation - 480000 - 512 (Render Ratio)** | 6.282677 |
| **Stargate Digital Audio Workstation - 96000 - 1024 (Render Ratio)** | 5.239294 |
| **Stargate Digital Audio Workstation - 192000 - 1024 (Render Ratio)** | 3.338348 |
| **Stargate Digital Audio Workstation - 480000 - 1024 (Render Ratio)** | 7.379508 |
| **PJSIP - INVITE (Responses/sec)** | 4822 |
| **PJSIP - OPTIONS, Stateful (Responses/sec)** | 10317 |
| **PJSIP - OPTIONS, Stateless (Responses/sec)** | 43880 |
| **Timed Apache Compilation - Time To Compile (sec)** | 15.9 |
| **Timed FFmpeg Compilation - Time To Compile (sec)** | 25.2 |
| **Timed GCC Compilation - Time To Compile (sec)** | 679.763 |
| **Timed GDB GNU Debugger Compilation - Time To Compile (sec)** | 38.226 |
| **Timed Gem5 Compilation - Time To Compile (sec)** | 266.202 |
| **Timed ImageMagick Compilation - Time To Compile (sec)** | 12.214 |
| **Timed Linux Kernel Compilation - defconfig (sec)** | 43.209 |
| **Timed Linux Kernel Compilation - allmodconfig (sec)** | 475.162 |
| **Timed LLVM Compilation - Ninja (sec)** | 233.593 |
| **Timed LLVM Compilation - Unix Makefiles (sec)** | 268.125 |
| **Timed Node.js Compilation - Time To Compile (sec)** | 311.584 |
| **Timed PHP Compilation - Time To Compile (sec)** | 38.925 |
| **Timed CPython Compilation - Default (sec)** | 13.441 |
| **Timed CPython Compilation - R.B.P.L.O (sec)** | 227.549 |
| **Build2 - Time To Compile (sec)** | 57.614 |
| **C-Ray - 4K - 16 (sec)** | 62.745 |
| **C-Ray - 5K - 16 (sec)** | 111.744 |
| **C-Ray - 1080p - 16 (sec)** | 15.761 |
| **Parallel BZIP2 Compression - F.1.0.R.a.m.i.C (sec)** | 2.812587 |
| **POV-Ray - Trace Time (sec)** | 12.73 |
| **Smallpt - G.I.R.1.S (sec)** | 3.08 |
| **rays1bench - Large Scene (mrays/s)** | 246.58 |
| **oneDNN - IP Shapes 1D - CPU (ms)** | 0.421971 |
| **oneDNN - IP Shapes 3D - CPU (ms)** | 0.794606 |
| **oneDNN - C.B.S.A - CPU (ms)** | 1.10004 |

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|---|---|
| **oneDNN - D.B.s - CPU (ms)** | 1.70881 |
| **oneDNN - D.B.s - CPU (ms)** | 1.02216 |
| **oneDNN - R.N.N.T - CPU (ms)** | 529.666 |
| **oneDNN - R.N.N.I - CPU (ms)** | 285.44 |
| **AOBench - 2048 x 2048 - Total Time (sec)** | 26.089 |
| **Timed Eigen Compilation - Time To Compile (sec)** | 60.999 |
| **Timed Erlang/OTP Compilation - Time To Compile (sec)** | 65.286 |
| **Timed Wasmer Compilation - Time To Compile (sec)** | 27.277 |
| **Gzip Compression - L.S.T.A.T.t.g (sec)** | 35.524 |
| **XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)** | 18.866 |
| **dcraw - R.T.P.I.C (sec)** | 28.499 |
| **DeepSpeech - CPU (sec)** | 90.80281 |
| **Monkey Audio Encoding - WAV To APE (sec)** | 11.245 |
| **FLAC Audio Encoding - WAV To FLAC (sec)** | 16.533 |
| **LAME MP3 Encoding - WAV To MP3 (sec)** | 6.765 |
| **Opus Codec Encoding - WAV To Opus Encode (sec)** | 24.976 |
| **eSpeak-NG Speech Engine - T.T.S.S (sec)** | 23.107 |
| **Gcrypt Library (sec)** | 204.821 |
| **Hackbench - 1 - Thread (sec)** | 2.468 |
| **Hackbench - 2 - Thread (sec)** | 3.587 |
| **Hackbench - 4 - Thread (sec)** | 6.565 |
| **Hackbench - 8 - Thread (sec)** | 11.728 |
| **Hackbench - 1 - Process (sec)** | 2.288 |
| **Hackbench - 16 - Thread (sec)** | 18.782 |
| **Hackbench - 2 - Process (sec)** | 3.333 |
| **Hackbench - 4 - Process (sec)** | 5.951 |
| **Hackbench - 8 - Process (sec)** | 10.741 |
| **Hackbench - 16 - Process (sec)** | 17.469 |
| **Hackbench - 32 - Process (sec)** | 28.213 |
| **m-queens - Time To Solve (sec)** | 25.531 |
| **Ngspice - C2670 (sec)** | 94.427 |
| **Ngspice - C7552 (sec)** | 128.299 |
| **Perl Benchmarks - Pod2html (sec)** | 0.08205896 |
| **Perl Benchmarks - Interpreter (sec)** | 0.00100353 |
| **R Benchmark (sec)** | 0.0959 |
| **RNNoise - 2.M.L.T.S (sec)** | 9.411 |
| **System GZIP Decompression (sec)** | 3.005 |
| **System XZ Decompression (sec)** | 3.315 |
| **Tachyon - Total Time (sec)** | 37.5104 |
| **Google SynthMark - VoiceMark_100 (Voices)** | 910.291 |
| **Aircrack-ng (k/s)** | 111525 |
| **SecureMark - SecureMark-TLS (marks)** | 300322 |
| **OpenJPEG - N.C.P.M (ms)** | 48995 |
| **ArrayFire - BLAS CPU FP16 (GFLOPS)** | 144.195 |
| **ArrayFire - BLAS CPU FP32 (GFLOPS)** | 222.279 |
| **ArrayFire - Black Scholes CPU (ms)** | 42.400841 |
| **ArrayFire - C.G.C (ms)** | 24.68 |
| **ArrayFire - N.N.C.F (s)** | 9.1849 |

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|---|---|
| **OpenSSL - SHA256 (byte/s)** | 35336269410 |
| **OpenSSL - SHA512 (byte/s)** | 14989803980 |
| **OpenSSL - RSA4096 (sign/s)** | 22316 |
| **OpenSSL - RSA4096 (verify/s)** | 593445 |
| **OpenSSL - ChaCha20 (byte/s)** | 220348950390 |
| **OpenSSL - AES-128-GCM (byte/s)** | 622792111720 |
| **OpenSSL - AES-256-GCM (byte/s)** | 507318577830 |
| **OpenSSL - ChaCha20-Poly1305 (byte/s)** | 150605595720 |
| **Node.js V8 Web Tooling Benchmark (runs/s)** | 15.29 |
| **Liquid-DSP - 1 - 256 - 32 (samples/s)** | 41574000 |
| **Liquid-DSP - 1 - 256 - 57 (samples/s)** | 76239000 |
| **Liquid-DSP - 2 - 256 - 32 (samples/s)** | 76730000 |
| **Liquid-DSP - 2 - 256 - 57 (samples/s)** | 143860000 |
| **Liquid-DSP - 4 - 256 - 32 (samples/s)** | 154180000 |
| **Liquid-DSP - 4 - 256 - 57 (samples/s)** | 242970000 |
| **Liquid-DSP - 8 - 256 - 32 (samples/s)** | 315220000 |
| **Liquid-DSP - 8 - 256 - 57 (samples/s)** | 430710000 |
| **Liquid-DSP - 1 - 256 - 512 (samples/s)** | 19399000 |
| **Liquid-DSP - 16 - 256 - 32 (samples/s)** | 637800000 |
| **Liquid-DSP - 16 - 256 - 57 (samples/s)** | 840070000 |
| **Liquid-DSP - 2 - 256 - 512 (samples/s)** | 37752000 |
| **Liquid-DSP - 32 - 256 - 32 (samples/s)** | 1273500000 |
| **Liquid-DSP - 32 - 256 - 57 (samples/s)** | 1596100000 |
| **Liquid-DSP - 4 - 256 - 512 (samples/s)** | 67727000 |
| **Liquid-DSP - 8 - 256 - 512 (samples/s)** | 128860000 |
| **Liquid-DSP - 16 - 256 - 512 (samples/s)** | 255870000 |
| **Liquid-DSP - 32 - 256 - 512 (samples/s)** | 496690000 |
| **etcd - PUT - 50 - 100 (Reqs/sec)** | 125421 |
| **etcd - PUT - 50 - 100 - Average Latency (ms)** | 0.8 |
| **etcd - PUT - 100 - 100 (Reqs/sec)** | 120275 |
| **etcd - PUT - 100 - 100 - Average Latency (ms)** | 0.8 |
| **etcd - PUT - 50 - 1000 (Reqs/sec)** | 140273 |
| **etcd - PUT - 50 - 1000 - Average Latency (ms)** | 7.1 |
| **etcd - PUT - 500 - 100 (Reqs/sec)** | 125171 |
| **etcd - PUT - 500 - 100 - Average Latency (ms)** | 0.8 |
| **etcd - PUT - 100 - 1000 (Reqs/sec)** | 138822 |
| **etcd - PUT - 100 - 1000 - Average Latency (ms)** | 7.2 |
| **etcd - PUT - 500 - 1000 (Reqs/sec)** | 139560 |
| **etcd - PUT - 500 - 1000 - Average Latency (ms)** | 7.1 |
| **etcd - RANGE - 50 - 100 (Reqs/sec)** | 126746 |
| **etcd - RANGE - 50 - 100 - Average Latency (ms)** | 0.8 |
| **etcd - RANGE - 100 - 100 (Reqs/sec)** | 119915 |
| **etcd - RANGE - 100 - 100 - Average Latency (ms)** | 0.8 |
| **etcd - RANGE - 50 - 1000 (Reqs/sec)** | 140918 |
| **etcd - RANGE - 50 - 1000 - Average Latency (ms)** | 7 |
| **etcd - RANGE - 500 - 100 (Reqs/sec)** | 125334 |
| **etcd - RANGE - 500 - 100 - Average Latency (ms)** | 0.8 |
| **etcd - RANGE - 100 - 1000 (Reqs/sec)** | 138995 |

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| **etcd - RANGE - 100 - 1000 - Average Latency (ms)** | 7.2 |
| **etcd - RANGE - 500 - 1000 (Reqs/sec)** | 139737 |
| **etcd - RANGE - 500 - 1000 - Average Latency (ms)** | 7.1 |
| **CockroachDB - MoVR - 128 (ops/s)** | 1292 |
| **CockroachDB - MoVR - 256 (ops/s)** | 1302 |
| **CockroachDB - MoVR - 512 (ops/s)** | 1289 |
| **CockroachDB - MoVR - 1024 (ops/s)** | 1292 |
| **CockroachDB - KV, 10% Reads - 128 (ops/s)** | 78231 |
| **CockroachDB - KV, 10% Reads - 256 (ops/s)** | 79201 |
| **CockroachDB - KV, 10% Reads - 512 (ops/s)** | 77762 |
| **CockroachDB - KV, 50% Reads - 128 (ops/s)** | 94229 |
| **CockroachDB - KV, 50% Reads - 256 (ops/s)** | 92967 |
| **CockroachDB - KV, 50% Reads - 512 (ops/s)** | 90324 |
| **CockroachDB - KV, 60% Reads - 128 (ops/s)** | 95483 |
| **CockroachDB - KV, 60% Reads - 256 (ops/s)** | 99565 |
| **CockroachDB - KV, 60% Reads - 512 (ops/s)** | 96883 |
| **CockroachDB - KV, 95% Reads - 128 (ops/s)** | 114724 |
| **CockroachDB - KV, 95% Reads - 256 (ops/s)** | 113760 |
| **CockroachDB - KV, 95% Reads - 512 (ops/s)** | 120470 |
| **CockroachDB - KV, 10% Reads - 1024 (ops/s)** | 75680 |
| **CockroachDB - KV, 50% Reads - 1024 (ops/s)** | 86935 |
| **CockroachDB - KV, 60% Reads - 1024 (ops/s)** | 91831 |
| **CockroachDB - KV, 95% Reads - 1024 (ops/s)** | 108832 |
| **Dragonflydb - 10 - 1:1 (Ops/sec)** | 14701774 |
| **Dragonflydb - 10 - 1:5 (Ops/sec)** | 15074098 |
| **Dragonflydb - 10 - 5:1 (Ops/sec)** | 15837332 |
| **Dragonflydb - 20 - 1:1 (Ops/sec)** | 17589797 |
| **Dragonflydb - 20 - 1:5 (Ops/sec)** | 16537009 |
| **Dragonflydb - 20 - 5:1 (Ops/sec)** | 16294924 |
| **Dragonflydb - 50 - 1:1 (Ops/sec)** | 18748326 |
| **Dragonflydb - 50 - 1:5 (Ops/sec)** | 18466121 |
| **Dragonflydb - 50 - 5:1 (Ops/sec)** | 17992130 |
| **Dragonflydb - 10 - 1:10 (Ops/sec)** | 14923222 |
| **Dragonflydb - 20 - 1:10 (Ops/sec)** | 16354226 |
| **Redis - GET - 50 (Reqs/sec)** | 4490013 |
| **Redis - SET - 50 (Reqs/sec)** | 3151410 |
| **Redis - GET - 500 (Reqs/sec)** | 3122094 |
| **Redis - LPOP - 50 (Reqs/sec)** | 4446105 |
| **Redis - SADD - 50 (Reqs/sec)** | 3403258 |
| **Redis - SET - 500 (Reqs/sec)** | 2674560 |
| **Redis - GET - 1000 (Reqs/sec)** | 3317910 |
| **Redis - LPOP - 500 (Reqs/sec)** | 3639870 |
| **Redis - LPUSH - 50 (Reqs/sec)** | 2778708 |
| **Redis - SADD - 500 (Reqs/sec)** | 2810618 |
| **Redis - SET - 1000 (Reqs/sec)** | 2850028 |
| **Redis - LPOP - 1000 (Reqs/sec)** | 2491325 |
| **Redis - LPUSH - 500 (Reqs/sec)** | 2461401 |
| **Redis - SADD - 1000 (Reqs/sec)** | 2917546 |

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| **Redis - LPUSH - 1000 (Reqs/sec)** | 2571269 |
| **FinanceBench - Repo OpenMP (ms)** | 24586 |
| **FinanceBench - Bonds OpenMP (ms)** | 39180 |
| **ASTC Encoder - Fast (MT/s)** | 516.1956 |
| **ASTC Encoder - Medium (MT/s)** | 219.0919 |
| **ASTC Encoder - Thorough (MT/s)** | 31.4808 |
| **ASTC Encoder - Exhaustive (MT/s)** | 2.6271 |
| **ASTC Encoder - Very Thorough (MT/s)** | 4.3394 |
| **libjpeg-turbo tjbench - D.T (Megapixels/sec)** | 214.81548 |
| **MariaDB - oltp_read_only - 1 (Queries/sec)** | 29000 |
| **MariaDB - oltp_read_only - 16 (Queries/sec)** | 44006 |
| **MariaDB - oltp_read_only - 32 (Queries/sec)** | 42967 |
| **MariaDB - oltp_read_only - 64 (Queries/sec)** | 41344 |
| **MariaDB - oltp_read_write - 1 (Queries/sec)** | 12390 |
| **MariaDB - oltp_write_only - 1 (Queries/sec)** | 4376 |
| **MariaDB - oltp_read_only - 128 (Queries/sec)** | 39914 |
| **MariaDB - oltp_read_only - 256 (Queries/sec)** | 38420 |
| **MariaDB - oltp_read_only - 512 (Queries/sec)** | 36532 |
| **MariaDB - oltp_read_only - 768 (Queries/sec)** | 35594 |
| **MariaDB - oltp_read_write - 16 (Queries/sec)** | 59611 |
| **MariaDB - oltp_read_write - 32 (Queries/sec)** | 78742 |
| **MariaDB - oltp_read_write - 64 (Queries/sec)** | 109852 |
| **MariaDB - oltp_write_only - 16 (Queries/sec)** | 93256 |
| **MariaDB - oltp_write_only - 32 (Queries/sec)** | 181312 |
| **MariaDB - oltp_write_only - 64 (Queries/sec)** | 226903 |
| **MariaDB - oltp_point_select - 1 (Queries/sec)** | 44630 |
| **MariaDB - oltp_read_write - 128 (Queries/sec)** | 137593 |
| **MariaDB - oltp_read_write - 256 (Queries/sec)** | 141315 |
| **MariaDB - oltp_read_write - 512 (Queries/sec)** | 142149 |
| **MariaDB - oltp_update_index - 1 (Queries/sec)** | 590 |
| **MariaDB - oltp_write_only - 128 (Queries/sec)** | 268228 |
| **MariaDB - oltp_write_only - 256 (Queries/sec)** | 289781 |
| **MariaDB - oltp_write_only - 512 (Queries/sec)** | 297215 |
| **MariaDB - oltp_write_only - 768 (Queries/sec)** | 299078 |
| **MariaDB - oltp_point_select - 16 (Queries/sec)** | 49885 |
| **MariaDB - oltp_point_select - 32 (Queries/sec)** | 51120 |
| **MariaDB - oltp_point_select - 64 (Queries/sec)** | 51349 |
| **MariaDB - oltp_update_index - 16 (Queries/sec)** | 10226 |
| **MariaDB - oltp_update_index - 32 (Queries/sec)** | 28601 |
| **MariaDB - oltp_update_index - 64 (Queries/sec)** | 88411 |
| **MariaDB - oltp_point_select - 128 (Queries/sec)** | 51106 |
| **MariaDB - oltp_point_select - 256 (Queries/sec)** | 50272 |
| **MariaDB - oltp_point_select - 512 (Queries/sec)** | 49237 |
| **MariaDB - oltp_point_select - 768 (Queries/sec)** | 47110 |
| **MariaDB - oltp_update_index - 128 (Queries/sec)** | 116441 |
| **MariaDB - oltp_update_index - 256 (Queries/sec)** | 133936 |
| **MariaDB - oltp_update_index - 512 (Queries/sec)** | 140717 |
| **MariaDB - oltp_update_index - 768 (Queries/sec)** | 145295 |

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| **MariaDB - oltp_update_non_index - 1 (Queries/sec)** | 616 |
| **MariaDB - oltp_update_non_index - 16 (Queries/sec)** | 12618 |
| **MariaDB - oltp_update_non_index - 32 (Queries/sec)** | 45073 |
| **MariaDB - oltp_update_non_index - 64 (Queries/sec)** | 92737 |
| **MariaDB - oltp_update_non_index - 128 (Queries/sec)** | 117870 |
| **MariaDB - oltp_update_non_index - 256 (Queries/sec)** | 137386 |
| **MariaDB - oltp_update_non_index - 512 (Queries/sec)** | 153758 |
| **MariaDB - oltp_update_non_index - 768 (Queries/sec)** | 157320 |
| **KeyDB - GET - 50 (Reqs/sec)** | 2053472 |
| **KeyDB - SET - 50 (Reqs/sec)** | 1667500 |
| **KeyDB - GET - 100 (Reqs/sec)** | 1616292 |
| **KeyDB - GET - 500 (Reqs/sec)** | 1437567 |
| **KeyDB - GET - 900 (Reqs/sec)** | 1744044 |
| **KeyDB - LPOP - 50 (Reqs/sec)** | 2100576 |
| **KeyDB - SADD - 50 (Reqs/sec)** | 1893796 |
| **KeyDB - SET - 100 (Reqs/sec)** | 1236216 |
| **KeyDB - SET - 500 (Reqs/sec)** | 1291156 |
| **KeyDB - SET - 900 (Reqs/sec)** | 1329363 |
| **KeyDB - HMSET - 50 (Reqs/sec)** | 458098 |
| **KeyDB - LPOP - 100 (Reqs/sec)** | 1481043 |
| **KeyDB - LPOP - 500 (Reqs/sec)** | 1365300 |
| **KeyDB - LPOP - 900 (Reqs/sec)** | 1356668 |
| **KeyDB - LPUSH - 50 (Reqs/sec)** | 1276618 |
| **KeyDB - SADD - 100 (Reqs/sec)** | 1343508 |
| **KeyDB - SADD - 500 (Reqs/sec)** | 1414907 |
| **KeyDB - SADD - 900 (Reqs/sec)** | 1350986 |
| **KeyDB - HMSET - 100 (Reqs/sec)** | 461336 |
| **KeyDB - HMSET - 500 (Reqs/sec)** | 431276 |
| **KeyDB - HMSET - 900 (Reqs/sec)** | 371722 |
| **KeyDB - LPUSH - 100 (Reqs/sec)** | 1222972 |
| **KeyDB - LPUSH - 500 (Reqs/sec)** | 1241928 |
| **KeyDB - LPUSH - 900 (Reqs/sec)** | 1004319 |
| **TensorFlow Lite - SqueezeNet (us)** | 1299 |
| **TensorFlow Lite - Inception V4 (us)** | 14550 |
| **TensorFlow Lite - NASNet Mobile (us)** | 12561 |
| **TensorFlow Lite - Mobilenet Float (us)** | 891.331 |
| **TensorFlow Lite - Mobilenet Quant (us)** | 1432 |
| **TensorFlow Lite - I.R.V (us)** | 19835 |
| **MariaDB mariadb-slap - 1 (Queries/sec)** | 1182 |
| **MariaDB mariadb-slap - 32 (Queries/sec)** | 912 |
| **MariaDB mariadb-slap - 64 (Queries/sec)** | 645 |
| **MariaDB mariadb-slap - 128 (Queries/sec)** | 407 |
| **MariaDB mariadb-slap - 256 (Queries/sec)** | 235 |
| **MariaDB mariadb-slap - 512 (Queries/sec)** | 127 |
| **MariaDB mariadb-slap - 1024 (Queries/sec)** | 58 |
| **MariaDB mariadb-slap - 2048 (Queries/sec)** | 105 |
| **MariaDB mariadb-slap - 4096 (Queries/sec)** | 114 |
| **MariaDB mariadb-slap - 8192 (Queries/sec)** | 117 |

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| **KTX-Software toktx - UASTC 3 (sec)** | 5.108 |
| **KTX-Software toktx - Zstd Compression 9 (sec)** | 2.522 |
| **KTX-Software toktx - Z.C.1 (sec)** | 16.725 |
| **KTX-Software toktx - U.3.Z.C.1 (sec)** | 9.174 |
| **KTX-Software toktx - U.4.Z.C.1 (sec)** | 93.872 |
| **GEGL - Crop (sec)** | 6.118 |
| **GEGL - Scale (sec)** | 3.92 |
| **GEGL - Cartoon (sec)** | 74.558 |
| **GEGL - Reflect (sec)** | 25.583 |
| **GEGL - Antialias (sec)** | 32.002 |
| **GEGL - Tile Glass (sec)** | 24.65 |
| **GEGL - Wavelet Blur (sec)** | 52.859 |
| **GEGL - Color Enhance (sec)** | 44.545 |
| **GEGL - Rotate 90 Degrees (sec)** | 34.823 |
| **GNU Octave Benchmark (sec)** | 6.924 |
| **librsvg - SVG Files To PNG (sec)** | 10.982 |
| **Google Draco - Lion (ms)** | 4603 |
| **Google Draco - Church Facade (ms)** | 5631 |
| **BenchmarkMutex - S.M.L.S (ns)** | 18.1 |
| **BenchmarkMutex - M.L.U.s (ns)** | 19.7 |
| **BenchmarkMutex - M.L.U.s.m (ns)** | 11 |
| **BenchmarkMutex - M.L.U.s.m (ns)** | 22.7 |
| **BenchmarkMutex - S.R.A.A (ns)** | 16.6 |
| **BenchmarkMutex - M.L.U.s (ns)** | 22.4 |
| **BenchmarkMutex - M.L.U.p (ns)** | 9.26 |
| **BenchmarkMutex - M.L.U.t (ns)** | 15.6 |
| **Stress-NG - Hash (Bogo Ops/s)** | 5539615 |
| **Stress-NG - MMAP (Bogo Ops/s)** | 31235 |
| **Stress-NG - NUMA (Bogo Ops/s)** | 9.52 |
| **Stress-NG - Pipe (Bogo Ops/s)** | 22965369 |
| **Stress-NG - Poll (Bogo Ops/s)** | 2181948 |
| **Stress-NG - Zlib (Bogo Ops/s)** | 1740 |
| **Stress-NG - Futex (Bogo Ops/s)** | 3755569 |
| **Stress-NG - MEMFD (Bogo Ops/s)** | 4451 |
| **Stress-NG - Mutex (Bogo Ops/s)** | 608015 |
| **Stress-NG - Atomic (Bogo Ops/s)** | 264.13 |
| **Stress-NG - Crypto (Bogo Ops/s)** | 85174 |
| **Stress-NG - Malloc (Bogo Ops/s)** | 187466975 |
| **Stress-NG - Cloning (Bogo Ops/s)** | 1127 |
| **Stress-NG - Forking (Bogo Ops/s)** | 59946 |
| **Stress-NG - Pthread (Bogo Ops/s)** | 225543 |
| **Stress-NG - AVL Tree (Bogo Ops/s)** | 478.87 |
| **Stress-NG - SENDFILE (Bogo Ops/s)** | 744746 |
| **Stress-NG - CPU Cache (Bogo Ops/s)** | 1364959 |
| **Stress-NG - CPU Stress (Bogo Ops/s)** | 72743 |
| **Stress-NG - Power Math (Bogo Ops/s)** | 65738 |
| **Stress-NG - Semaphores (Bogo Ops/s)** | 55191036 |
| **Stress-NG - Matrix Math (Bogo Ops/s)** | 143793 |

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| **Stress-NG - Vector Math (Bogo Ops/s)** | 164698 |
| **Stress-NG - AVX-512 VNNI (Bogo Ops/s)** | 4620750 |
| **Stress-NG - Function Call (Bogo Ops/s)** | 26864 |
| **Stress-NG - x86_64 RdRand (Bogo Ops/s)** | 666851 |
| **Stress-NG - Floating Point (Bogo Ops/s)** | 10486 |
| **Stress-NG - Matrix 3D Math (Bogo Ops/s)** | 13193 |
| **Stress-NG - Memory Copying (Bogo Ops/s)** | 12779 |
| **Stress-NG - Vector Shuffle (Bogo Ops/s)** | 138677 |
| **Stress-NG - Mixed Scheduler (Bogo Ops/s)** | 43189 |
| **Stress-NG - Socket Activity (Bogo Ops/s)** | 25501 |
| **Stress-NG - Exponential Math (Bogo Ops/s)** | 145425 |
| **Stress-NG - Jpeg Compression (Bogo Ops/s)** | 38043 |
| **Stress-NG - Logarithmic Math (Bogo Ops/s)** | 195012 |
| **Stress-NG - Wide Vector Math (Bogo Ops/s)** | 2003263 |
| **Stress-NG - Context Switching (Bogo Ops/s)** | 16632605 |
| **Stress-NG - Fractal Generator (Bogo Ops/s)** | 168.47 |
| **Stress-NG - Radix String Sort (Bogo Ops/s)** | 994.3 |
| **Stress-NG - Fused Multiply-Add (Bogo Ops/s)** | 32268230 |
| **Stress-NG - Trigonometric Math (Bogo Ops/s)** | 93744 |
| **Stress-NG - B.I.S (Bogo Ops/s)** | 293.93 |
| **Stress-NG - V.F.P (Bogo Ops/s)** | 63807 |
| **Stress-NG - G.C.S.F (Bogo Ops/s)** | 31448455 |
| **Stress-NG - G.Q.D.S (Bogo Ops/s)** | 783.13 |
| **Stress-NG - S.V.M.P (Bogo Ops/s)** | 5609127 |
| **Caffe - AlexNet - CPU - 100 (ms)** | 34755 |
| **Caffe - AlexNet - CPU - 200 (ms)** | 68878 |
| **Caffe - AlexNet - CPU - 1000 (ms)** | 347904 |
| **Caffe - GoogleNet - CPU - 100 (ms)** | 78987 |
| **Caffe - GoogleNet - CPU - 200 (ms)** | 158530 |
| **Caffe - GoogleNet - CPU - 1000 (ms)** | 793699 |
| **Mobile Neural Network - nasnet (ms)** | 11.394 |
| **Mobile Neural Network - mobilenetV3 (ms)** | 1.647 |
| **Mobile Neural Network - squeezenetv1.1 (ms)** | 2.252 |
| **Mobile Neural Network - resnet-v2-50 (ms)** | 6.856 |
| **Mobile Neural Network - SqueezeNetV1.0 (ms)** | 3.462 |
| **Mobile Neural Network - MobileNetV2_224 (ms)** | 2.695 |
| **Mobile Neural Network - mobilenet-v1-1.0 (ms)** | 1.76 |
| **Mobile Neural Network - inception-v3 (ms)** | 17.415 |
| **NCNN - CPU - mobilenet (ms)** | 9.49 |
| **NCNN - CPU-v2-v2 - mobilenet-v2 (ms)** | 3.5 |
| **NCNN - CPU-v3-v3 - mobilenet-v3 (ms)** | 3.52 |
| **NCNN - CPU - shufflenet-v2 (ms)** | 3.83 |
| **NCNN - CPU - mnasnet (ms)** | 3.26 |
| **NCNN - CPU - efficientnet-b0 (ms)** | 4.44 |
| **NCNN - CPU - blazeface (ms)** | 1.36 |
| **NCNN - CPU - googlenet (ms)** | 8.71 |
| **NCNN - CPU - vgg16 (ms)** | 17.78 |
| **NCNN - CPU - resnet18 (ms)** | 5.11 |

| | |
|---|---|
| **NCNN - CPU - alexnet (ms)** | 3.37 |
| **NCNN - CPU - resnet50 (ms)** | 10.44 |
| **NCNN - CPU - yolov4-tiny (ms)** | 15.91 |
| **NCNN - CPU - squeezenet_ssd (ms)** | 7.47 |
| **NCNN - CPU - regnety_400m (ms)** | 10.64 |
| **NCNN - CPU - vision_transformer (ms)** | 41.52 |
| **NCNN - CPU - FastestDet (ms)** | 3.77 |
| **NCNN - Vulkan GPU - mobilenet (ms)** | 8.87 |
| **NCNN - Vulkan GPU-v2-v2 - mobilenet-v2 (ms)** | 3.54 |
| **NCNN - Vulkan GPU-v3-v3 - mobilenet-v3 (ms)** | 3.57 |
| **NCNN - Vulkan GPU - shufflenet-v2 (ms)** | 3.91 |
| **NCNN - Vulkan GPU - mnasnet (ms)** | 3.17 |
| **NCNN - Vulkan GPU - efficientnet-b0 (ms)** | 4.1 |
| **NCNN - Vulkan GPU - blazeface (ms)** | 1.2 |
| **NCNN - Vulkan GPU - googlenet (ms)** | 7.67 |
| **NCNN - Vulkan GPU - vgg16 (ms)** | 17.34 |
| **NCNN - Vulkan GPU - resnet18 (ms)** | 4.62 |
| **NCNN - Vulkan GPU - alexnet (ms)** | 3.24 |
| **NCNN - Vulkan GPU - resnet50 (ms)** | 9.18 |
| **NCNN - Vulkan GPU - yolov4-tiny (ms)** | 14.7 |
| **NCNN - Vulkan GPU - squeezenet_ssd (ms)** | 7.07 |
| **NCNN - Vulkan GPU - regnety_400m (ms)** | 10.21 |
| **NCNN - Vulkan GPU - vision_transformer (ms)** | 40.89 |
| **NCNN - Vulkan GPU - FastestDet (ms)** | 3.11 |
| **TNN - CPU - DenseNet (ms)** | 2036 |
| **TNN - CPU - MobileNet v2 (ms)** | 186.003 |
| **TNN - CPU - SqueezeNet v2 (ms)** | 50.529 |
| **TNN - CPU - SqueezeNet v1.1 (ms)** | 172.327 |
| **Blender - BMW27 - CPU-Only (sec)** | 41.17 |
| **Blender - Junkshop - CPU-Only (sec)** | 59.01 |
| **Blender - Classroom - CPU-Only (sec)** | 120.81 |
| **Blender - Fishy Cat - CPU-Only (sec)** | 61.83 |
| **Blender - Barbershop - CPU-Only (sec)** | 433.98 |
| **Blender - Pabellon Barcelona - CPU-Only (sec)** | 144.03 |
| **ctx_clock - C.S.T (Clocks)** | 246 |
| **PETSc - Streams (MB/s)** | 334109 |
| **Apache Cassandra - Writes (Op/s)** | 175739 |
| **Apache Cassandra - Mixed 1:1 (Op/s)** | 177781 |
| **Apache Cassandra - Mixed 1:3 (Op/s)** | 195077 |
| **RocksDB - Overwrite (Op/s)** | 1070160 |
| **RocksDB - Rand Fill (Op/s)** | 1077045 |
| **RocksDB - Rand Read (Op/s)** | 251333860 |
| **RocksDB - Update Rand (Op/s)** | 879583 |
| **RocksDB - Seq Fill (Op/s)** | 1053049 |
| **RocksDB - Rand Fill Sync (Op/s)** | 326640 |
| **RocksDB - Read While Writing (Op/s)** | 4409036 |
| **RocksDB - R.R.W.R (Op/s)** | 3289535 |
| **ScyllaDB - Writes (Op/s)** | 240144 |

| | |
|---|---|
| **ScyllaDB - Mixed 1:1 (Op/s)** | 234005 |
| **ScyllaDB - Mixed 1:3 (Op/s)** | 232358 |
| **PyBench - T.F.A.T.T (Milliseconds)** | 663 |
| **nginx - 100 (Reqs/sec)** | 231743 |
| **nginx - 200 (Reqs/sec)** | 239951 |
| **nginx - 500 (Reqs/sec)** | 242251 |
| **nginx - 1000 (Reqs/sec)** | 231725 |
| **NeatBench - All (FPS)** | 53.8 |
| **NeatBench - CPU (FPS)** | 53.8 |
| **Natron - Spaceship (FPS)** | 6.1 |
| **Apache HTTP Server - 100 (Reqs/sec)** | 134192 |
| **Apache HTTP Server - 200 (Reqs/sec)** | 171981 |
| **Apache HTTP Server - 500 (Reqs/sec)** | 188034 |
| **Apache HTTP Server - 1000 (Reqs/sec)** | 190780 |
| **Appleseed - Emily (sec)** | 148.342978 |
| **Appleseed - Disney Material (sec)** | 56.685096 |
| **Appleseed - Material Tester (sec)** | 176.944771 |
| **PHPBench - P.B.S (Score)** | 1026606 |
| **WavPack Audio Encoding - WAV To WavPack (sec)** | 5.486 |
| **GnuPG - 2.7.S.F.E (sec)** | 44.03 |
| **PHP Micro Benchmarks - Zend bench (sec)** | 0.21 |
| **PHP Micro Benchmarks - Zend micro_bench (sec)** | 1.113 |
| **Tesseract OCR - T.T.O.7.I (sec)** | 23.292 |
| **Kripke (Throughput FoM)** | 329544300 |
| **BRL-CAD - V.P.M (VGR Performance Metric)** | 597073 |
| **Schbench - 1 (usec, 50.0th Latency Percentile)** | 101 |
| **Schbench - 1 (usec, 75.0th Latency Percentile)** | 124 |
| **Schbench - 1 (usec, 90.0th Latency Percentile)** | 128 |
| **Schbench - 1 (usec, 99.9th Latency Percentile)** | 139 |
| **Schbench - 2 (usec, 50.0th Latency Percentile)** | 95 |
| **Schbench - 2 (usec, 75.0th Latency Percentile)** | 100 |
| **Schbench - 2 (usec, 90.0th Latency Percentile)** | 106 |
| **Schbench - 2 (usec, 99.9th Latency Percentile)** | 141 |
| **Schbench - 4 (usec, 50.0th Latency Percentile)** | 92 |
| **Schbench - 4 (usec, 75.0th Latency Percentile)** | 98 |
| **Schbench - 4 (usec, 90.0th Latency Percentile)** | 102 |
| **Schbench - 4 (usec, 99.9th Latency Percentile)** | 955 |
| **Schbench - 8 (usec, 50.0th Latency Percentile)** | 75 |
| **Schbench - 8 (usec, 75.0th Latency Percentile)** | 99 |
| **Schbench - 8 (usec, 90.0th Latency Percentile)** | 107 |
| **Schbench - 8 (usec, 99.9th Latency Percentile)** | 13008 |
| **Schbench - 16 (usec, 50.0th Latency Percentile)** | 18 |
| **Schbench - 16 (usec, 75.0th Latency Percentile)** | 6088 |
| **Schbench - 16 (usec, 90.0th Latency Percentile)** | 12368 |
| **Schbench - 16 (usec, 99.9th Latency Percentile)** | 42048 |
| **Schbench - 32 (usec, 50.0th Latency Percentile)** | 5000 |
| **Schbench - 32 (usec, 75.0th Latency Percentile)** | 11760 |
| **Schbench - 32 (usec, 90.0th Latency Percentile)** | 20000 |

| | |
|---|---|
| **Schbench - 32 (usec, 99.9th Latency Percentile)** | 85120 |
| **Schbench - 64 (usec, 50.0th Latency Percentile)** | 9008 |
| **Schbench - 64 (usec, 75.0th Latency Percentile)** | 19872 |
| **Schbench - 64 (usec, 90.0th Latency Percentile)** | 36416 |
| **Schbench - 64 (usec, 99.9th Latency Percentile)** | 163072 |
| **Schbench - 128 (usec, 50.0th Latency Percentile)** | 15920 |
| **Schbench - 128 (usec, 75.0th Latency Percentile)** | 28000 |
| **Schbench - 128 (usec, 90.0th Latency Percentile)** | 58944 |
| **Schbench - 128 (usec, 99.9th Latency Percentile)** | 391680 |
| **Schbench - 256 (usec, 50.0th Latency Percentile)** | 16016 |
| **Schbench - 256 (usec, 75.0th Latency Percentile)** | 33984 |
| **Schbench - 256 (usec, 90.0th Latency Percentile)** | 92032 |
| **Schbench - 256 (usec, 99.9th Latency Percentile)** | 828416 |
| **InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec)** | 1931957 |
| **InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec)** | 2163141 |
| **InfluxDB - 1024 - 10000 - 2,5000,1 - 10000 (val/sec)** | 2150450 |

## LevelDB 1.23
Benchmark: Hot Read

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Fill Sync

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Fill Sync

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Overwrite

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Overwrite

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Random Fill

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Random Fill

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Random Read

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Seek Random

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Random Delete

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Sequential Fill

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## LevelDB 1.23
Benchmark: Sequential Fill

1. (CXX) g++ options: -fno-exceptions -fno-rtti -O3 -lgmock -lgtest -lsnappy -ltcmalloc

## SQLite 3.41.2
Threads / Copies: 8

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

## SQLite 3.41.2
Threads / Copies: 16

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

## SQLite 3.41.2
Threads / Copies: 32

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

## FS-Mark 3.3

Test: 1000 Files, 1MB Size

## FS-Mark 3.3

Test: 5000 Files, 1MB Size, 4 Threads

## FS-Mark 3.3

Test: 4000 Files, 32 Sub Dirs, 1MB Size

## FS-Mark 3.3

Test: 1000 Files, 1MB Size, No Sync/FSync

## BlogBench 1.1

Test: Read

1. (CC) gcc options: -O2

## BlogBench 1.1
Test: Write

1. (CC) gcc options: -O2

## Dbench 4.0
Client Count: 1

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

## Dbench 4.0
Client Count: 6

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

## Dbench 4.0
Client Count: 12

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

## Dbench 4.0
Client Count: 48

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

## Dbench 4.0
Client Count: 128

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

## Dbench 4.0
Client Count: 256

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

## IOR 3.3.0
Block Size: 2MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 4MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 8MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 16MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 32MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 64MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 256MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 512MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 1024MB - Disk Target: /

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

## IOR 3.3.0
Block Size: 2MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 4MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 8MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 16MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 32MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 64MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 256MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 512MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 1024MB - Disk Target: /home

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

## IOR 3.3.0
Block Size: 2MB - Disk Target: Default Test Directory

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

## IOR 3.3.0
Block Size: 4MB - Disk Target: Default Test Directory

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

## IOR 3.3.0
Block Size: 8MB - Disk Target: Default Test Directory

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

## IOR 3.3.0
Block Size: 16MB - Disk Target: Default Test Directory

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

## IOR 3.3.0
Block Size: 32MB - Disk Target: Default Test Directory

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

## IOR 3.3.0

Block Size: 64MB - Disk Target: Default Test Directory

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

## IOR 3.3.0

Block Size: 256MB - Disk Target: Default Test Directory

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

## IOR 3.3.0

Block Size: 512MB - Disk Target: Default Test Directory

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

## IOR 3.3.0

Block Size: 1024MB - Disk Target: Default Test Directory

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

## 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

## Stream 2013-01-17

Type: Copy

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

## Stream 2013-01-17
Type: Scale

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

## Stream 2013-01-17
Type: Triad

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

## Stream 2013-01-17
Type: Add

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

## 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

## pmbench

Concurrent Worker Threads: 1 - Read-Write Ratio: 50%

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 2 - Read-Write Ratio: 50%

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 4 - Read-Write Ratio: 50%

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 8 - Read-Write Ratio: 50%

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 16 - Read-Write Ratio: 50%

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 32 - Read-Write Ratio: 50%

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 1 - Read-Write Ratio: 100% Reads

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 2 - Read-Write Ratio: 100% Reads

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 4 - Read-Write Ratio: 100% Reads

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 8 - Read-Write Ratio: 100% Reads

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 1 - Read-Write Ratio: 100% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 16 - Read-Write Ratio: 100% Reads

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench
Concurrent Worker Threads: 2 - Read-Write Ratio: 100% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 32 - Read-Write Ratio: 100% Reads

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 4 - Read-Write Ratio: 100% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 8 - Read-Write Ratio: 100% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 16 - Read-Write Ratio: 100% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 32 - Read-Write Ratio: 100% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 1 - Read-Write Ratio: 80% Reads 20% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 2 - Read-Write Ratio: 80% Reads 20% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 4 - Read-Write Ratio: 80% Reads 20% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 8 - Read-Write Ratio: 80% Reads 20% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 16 - Read-Write Ratio: 80% Reads 20% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## pmbench

Concurrent Worker Threads: 32 - Read-Write Ratio: 80% Reads 20% Writes

1. (CC) gcc options: -lm -luuid -lxml2 -m64 -pthread

## WireGuard + Linux Networking Stack Stress Test

## perf-bench 6.9

Benchmark: Epoll Wait

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

## perf-bench 6.9

Benchmark: Futex Hash

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

## perf-bench 6.9

Benchmark: Memcpy 1MB

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

## perf-bench 6.9
Benchmark: Memset 1MB

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

## perf-bench 6.9
Benchmark: Sched Pipe

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

## perf-bench 6.9
Benchmark: Futex Lock-Pi

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

## perf-bench 6.9
Benchmark: Syscall Basic

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

## OSBench
Test: Create Files

1. (CC) gcc options: -lm

## OSBench
Test: Create Threads

1. (CC) gcc options: -lm

## OSBench
Test: Launch Programs

1. (CC) gcc options: -lm

## OSBench
Test: Create Processes

1. (CC) gcc options: -lm

## OSBench
Test: Memory Allocations

1. (CC) gcc options: -lm

## C-Blosc 2.11
Test: blosclz shuffle - Buffer Size: 8MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz shuffle - Buffer Size: 16MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz shuffle - Buffer Size: 32MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz shuffle - Buffer Size: 64MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz noshuffle - Buffer Size: 8MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz shuffle - Buffer Size: 128MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz shuffle - Buffer Size: 256MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz bitshuffle - Buffer Size: 8MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz noshuffle - Buffer Size: 16MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz noshuffle - Buffer Size: 32MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz noshuffle - Buffer Size: 64MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz bitshuffle - Buffer Size: 16MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz bitshuffle - Buffer Size: 32MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz bitshuffle - Buffer Size: 64MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz noshuffle - Buffer Size: 128MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz noshuffle - Buffer Size: 256MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz bitshuffle - Buffer Size: 128MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## C-Blosc 2.11

Test: blosclz bitshuffle - Buffer Size: 256MB

1. (CC) gcc options: -std=gnu99 -O3 -ldl -lrt -lm

## IPC_benchmark

Type: TCP Socket - Message Bytes: 128

## IPC_benchmark

Type: TCP Socket - Message Bytes: 256

## IPC_benchmark

Type: TCP Socket - Message Bytes: 512

## IPC_benchmark
Type: TCP Socket - Message Bytes: 1024

## IPC_benchmark
Type: TCP Socket - Message Bytes: 2048

## IPC_benchmark
Type: TCP Socket - Message Bytes: 4096

## IPC_benchmark
Type: Unnamed Pipe - Message Bytes: 128

## IPC_benchmark
Type: Unnamed Pipe - Message Bytes: 256

## IPC_benchmark
Type: Unnamed Pipe - Message Bytes: 512

## IPC_benchmark
Type: Unnamed Pipe - Message Bytes: 1024

## IPC_benchmark
Type: Unnamed Pipe - Message Bytes: 2048

## IPC_benchmark
Type: Unnamed Pipe - Message Bytes: 4096

## IPC_benchmark
Type: FIFO Named Pipe - Message Bytes: 128

## IPC_benchmark
Type: FIFO Named Pipe - Message Bytes: 256

## IPC_benchmark
Type: FIFO Named Pipe - Message Bytes: 512

## IPC_benchmark
Type: FIFO Named Pipe - Message Bytes: 1024

## IPC_benchmark
Type: FIFO Named Pipe - Message Bytes: 2048

## IPC_benchmark
Type: FIFO Named Pipe - Message Bytes: 4096

## IPC_benchmark
Type: Unnamed Unix Domain Socket - Message Bytes: 128

## IPC_benchmark
Type: Unnamed Unix Domain Socket - Message Bytes: 256

## IPC_benchmark
Type: Unnamed Unix Domain Socket - Message Bytes: 512

## IPC_benchmark
Type: Unnamed Unix Domain Socket - Message Bytes: 1024

## IPC_benchmark
Type: Unnamed Unix Domain Socket - Message Bytes: 2048

## IPC_benchmark
Type: Unnamed Unix Domain Socket - Message Bytes: 4096

## Crypto++ 8.8
Test: All Algorithms

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

## Crypto++ 8.8
Test: Keyed Algorithms

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

## Crypto++ 8.8

Test: Unkeyed Algorithms

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

## Etcpak 1.0

Benchmark: Multi-Threaded - Configuration: DXT1

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

## Etcpak 1.0

Benchmark: Multi-Threaded - Configuration: ETC2

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

## Etcpak 1.0

Benchmark: Single-Threaded - Configuration: DXT1

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

## Etcpak 1.0

Benchmark: Single-Threaded - Configuration: ETC2

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

## High Performance Conjugate Gradient 3.1

X Y Z: 104 104 104 - RT: 60

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 144 144 144 - RT: 60

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 160 160 160 - RT: 60

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 192 192 192 - RT: 60

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 104 104 104 - RT: 1800

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 144 144 144 - RT: 1800

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 160 160 160 - RT: 1800

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## High Performance Conjugate Gradient 3.1

X Y Z: 192 192 192 - RT: 1800

1. (CXX) g++ options: -O3 -ffast-math -ftree-vectorize -lmpi_cxx -lmpi

## NAS Parallel Benchmarks 3.4

Test / Class: BT.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4

Test / Class: CG.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4
Test / Class: EP.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4
Test / Class: EP.D

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4
Test / Class: FT.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4
Test / Class: IS.D

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4
Test / Class: LU.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4

Test / Class: MG.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4

Test / Class: SP.B

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## NAS Parallel Benchmarks 3.4

Test / Class: SP.C

1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi

## Quicksilver 20230818

Input: CTS2

1. (CXX) g++ options: -fopenmp -O3 -march=native

## Quicksilver 20230818

Input: CORAL2 P1

1. (CXX) g++ options: -fopenmp -O3 -march=native

## Quicksilver 20230818

Input: CORAL2 P2

1. (CXX) g++ options: -fopenmp -O3 -march=native

## miniBUDE 20210901

Implementation: OpenMP - Input Deck: BM1

1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

## miniBUDE 20210901

Implementation: OpenMP - Input Deck: BM1

1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

## miniBUDE 20210901

Implementation: OpenMP - Input Deck: BM2

1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

## miniBUDE 20210901

Implementation: OpenMP - Input Deck: BM2

1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

## CloverLeaf 1.3

Input: clover_bm

1. (F9X) gfortran options: -O3 -march=native -funroll-loops -fopenmp

## CloverLeaf 1.3

Input: clover_bm16

1. (F9X) gfortran options: -O3 -march=native -funroll-loops -fopenmp

## CloverLeaf 1.3

Input: clover_bm64_short

1. (F9X) gfortran options: -O3 -march=native -funroll-loops -fopenmp

## NAMD 3.0b6

Input: ATPase with 327,506 Atoms

## NAMD 3.0b6

Input: STMV with 1,066,628 Atoms

## Dolfyn 0.527
Computational Fluid Dynamics

## lzbench 1.8
Test: XZ 0 - Process: Compression

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

## lzbench 1.8
Test: XZ 0 - Process: Decompression

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

## lzbench 1.8
Test: Zstd 1 - Process: Compression

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

## lzbench 1.8
Test: Zstd 1 - Process: Decompression

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

## lzbench 1.8

Test: Zstd 8 - Process: Compression

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

## lzbench 1.8

Test: Zstd 8 - Process: Decompression

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

## lzbench 1.8

Test: Crush 0 - Process: Compression

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

## lzbench 1.8

Test: Crush 0 - Process: Decompression

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

## lzbench 1.8

Test: Brotli 0 - Process: Compression

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

## lzbench 1.8

Test: Brotli 0 - Process: Decompression

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

## lzbench 1.8

Test: Brotli 2 - Process: Compression

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

## lzbench 1.8

Test: Brotli 2 - Process: Decompression

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

## lzbench 1.8

Test: Libdeflate 1 - Process: Compression

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

## lzbench 1.8

Test: Libdeflate 1 - Process: Decompression

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

## SMHasher 2022-08-22
Hash: wyhash

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: wyhash

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: SHA3-256

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: SHA3-256

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: Spooky32

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: Spooky32

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: fasthash32

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: fasthash32

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: FarmHash128

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22
Hash: FarmHash128

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: t1ha2_atonce

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: t1ha2_atonce

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: FarmHash32 x86_64 AVX

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: FarmHash32 x86_64 AVX

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: t1ha0_aes_avx2 x86_64

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: t1ha0_aes_avx2 x86_64

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: MeowHash x86_64 AES-NI

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## SMHasher 2022-08-22

Hash: MeowHash x86_64 AES-NI

1. (CXX) g++ options: -march=native -O3 -flto=auto -fno-fat-lto-objects

## Algebraic Multi-Grid Benchmark 1.2

1. (CC) gcc options: -lparcsr_ls -lparcsr_mv -lseq_mv -lIJ_mv -lkrylov -lHYPRE_utilities -lm -fopenmp -lmpi

## libxsmm 2-1.17-3645

M N K: 128

1. (CXX) g++ options: -dynamic -Bstatic -static-libgcc -lgomp -lm -lrt -ldl -lquadmath -lstdc++ -pthread -fPIC -std=c++14 -pedantic -O2 -fopenmp -fopenmp-simd -fu

## libxsmm 2-1.17-3645

M N K: 256

1. (CXX) g++ options: -dynamic -Bstatic -static-libgcc -lgomp -lm -lrt -ldl -lquadmath -lstdc++ -pthread -fPIC -std=c++14 -pedantic -O2 -fopenmp -fopenmp-simd -fu

## libxsmm 2-1.17-3645

M N K: 32

1. (CXX) g++ options: -dynamic -Bstatic -static-libgcc -lgomp -lm -lrt -ldl -lquadmath -lstdc++ -pthread -fPIC -std=c++14 -pedantic -O2 -fopenmp -fopenmp-simd -fu

## libxsmm 2-1.17-3645

M N K: 64

1. (CXX) g++ options: -dynamic -Bstatic -static-libgcc -lgomp -lm -lrt -ldl -lquadmath -lstdc++ -pthread -fPIC -std=c++14 -pedantic -O2 -fopenmp -fopenmp-simd -fu

## FFTE 7.0

N=256, 3D Complex FFT Routine

1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp

## Laghos 3.1

Test: Triple Point Problem

1. (CXX) g++ options: -O3 -std=c++11 -lmfem -lHYPRE -lmetis -lrt -lmpi_cxx -lmpi

## Laghos 3.1

Test: Sedov Blast Wave, ube_922_hex.mesh

1. (CXX) g++ options: -O3 -std=c++11 -lmfem -lHYPRE -lmetis -lrt -lmpi_cxx -lmpi

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 32

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 64

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 32

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 64

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 128

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 256

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 512

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 128

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 256

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 512

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 1024

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 2048

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 1D FFT Size 4096

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 1024

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 2048

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Stock - Size: 2D FFT Size 4096

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 32

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 64

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 32

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 64

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 128

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 256

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 512

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 128

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 256

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 512

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 1024

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 2048

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 1D FFT Size 4096

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 1024

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 2048

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## FFTW 3.3.6

Build: Float + SSE - Size: 2D FFT Size 4096

1. (CC) gcc options: -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: float-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: float-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: FFTW - Precision: double-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: float-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: FFTW - Precision: double-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double-long - X Y Z: 128

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double-long - X Y Z: 256

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double-long - X Y Z: 512

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: float-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: c2c - Backend: Stock - Precision: double-long - X Y Z: 1024

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

## HeFFTe - Highly Efficient FFT for Exascale 2.4

Test: r2c - Backend: Stock - Precision: double-long - X Y Z: 1024

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

## Pennant 1.0.1

Test: sedovbig

1. (CXX) g++ options: -fopenmp -lmpi_cxx -lmpi

## Pennant 1.0.1

Test: leblancbig

1. (CXX) g++ options: -fopenmp -lmpi_cxx -lmpi

## Timed MrBayes Analysis 3.2.7

Primate Phylogeny Analysis

1. (CC) gcc options: -mmmx -msse -msse2 -msse3 -mssse3 -msse4.1 -msse4.2 -msha -maes -mavx -mfma -mavx2 -mavx512f -mavx512cd -mavx512vl -mavx512bw -

## QMCPACK 3.17.1
Input: H4_ae

1. (CXX) g++ options: -fopenmp -foffload=disable -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -ffast-math -march=native -O3 -lm -ldl

## QMCPACK 3.17.1
Input: Li2_STO_ae

1. (CXX) g++ options: -fopenmp -foffload=disable -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -ffast-math -march=native -O3 -lm -ldl

## QMCPACK 3.17.1
Input: LiH_ae_MSD

1. (CXX) g++ options: -fopenmp -foffload=disable -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -ffast-math -march=native -O3 -lm -ldl

## QMCPACK 3.17.1
Input: simple-H2O

1. (CXX) g++ options: -fopenmp -foffload=disable -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -ffast-math -march=native -O3 -lm -ldl

## QMCPACK 3.17.1

Input: O_ae_pyscf_UHF

1. (CXX) g++ options: -fopenmp -foffload=disable -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -ffast-math -march=native -O3 -lm -ldl

## QMCPACK 3.17.1

Input: FeCO6_b3lyp_gms

1. (CXX) g++ options: -fopenmp -foffload=disable -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -ffast-math -march=native -O3 -lm -ldl

## Timed HMMer Search 3.3.2

Pfam Database Search

1. (CC) gcc options: -O3 -pthread -lhmmer -leasel -lm -lmpi

## Timed MAFFT Alignment 7.471

Multiple Sequence Alignment - LSU RNA

1. (CC) gcc options: -std=c99 -O3 -lm -lpthread

## Monte Carlo Simulations of Ionised Nebulae 2.02.73.3

Input: Gas HII40

1. (F9X) gfortran options: -cpp -Jsource/ -ffree-line-length-0 -lm -std=legacy -O2 -lmpi_usempif08 -lmpi_mpifh -lmpi

## Monte Carlo Simulations of Ionised Nebulae 2.02.73.3

Input: Dust 2D tau100.0

1. (F9X) gfortran options: -cpp -Jsource/ -ffree-line-length-0 -lm -std=legacy -O2 -lmpi_usempif08 -lmpi_mpifh -lmpi

## Quantum ESPRESSO 7.0

Input: AUSURF112

1. (F9X) gfortran options: -pthread -fopenmp -ldevXlib -lopenblas -lFoX_dom -lFoX_sax -lFoX_wxml -lFoX_common -lFoX_utils -lFoX_fsys -lfftw3_omp -lfftw3 -lmpi_user

## Remhos 1.0

Test: Sample Remap Example

1. (CXX) g++ options: -O3 -std=c++11 -lmfem -lHYPRE -lmetis -lrt -lmpi_cxx -lmpi

## nekRS 23.0

Input: Kershaw

1. (CXX) g++ options: -fopenmp -O2 -march=native -mtune=native -ftree-vectorize -rdynamic -lmpi_cxx -lmpi

## nekRS 23.0

Input: TurboPipe Periodic

1. (CXX) g++ options: -fopenmp -O2 -march=native -mtune=native -ftree-vectorize -rdynamic -lmpi_cxx -lmpi

## LAMMPS Molecular Dynamics Simulator 23Jun2022
Model: 20k Atoms

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

## LAMMPS Molecular Dynamics Simulator 23Jun2022
Model: Rhodopsin Protein

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

## LULESH 2.0.3

1. (CXX) g++ options: -O3 -fopenmp -lm -lmpi_cxx -lmpi

## BLAKE2 20170307

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

## FFmpeg 7.0
Encoder: libx264 - Scenario: Live

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

## FFmpeg 7.0
Encoder: libx265 - Scenario: Live

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

## FFmpeg 7.0
Encoder: libx264 - Scenario: Upload

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

## FFmpeg 7.0
Encoder: libx265 - Scenario: Upload

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

## FFmpeg 7.0
Encoder: libx264 - Scenario: Platform

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

## FFmpeg 7.0
Encoder: libx265 - Scenario: Platform

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

## FFmpeg 7.0

Encoder: libx264 - Scenario: Video On Demand

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

## FFmpeg 7.0

Encoder: libx265 - Scenario: Video On Demand

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

## libgav1 0.17

Video Input: Chimera 1080p

1. (CXX) g++ options: -O3 -lrt

## libgav1 0.17

Video Input: Summer Nature 4K

1. (CXX) g++ options: -O3 -lrt

## libgav1 0.17

Video Input: Summer Nature 1080p

1. (CXX) g++ options: -O3 -lrt

## libgav1 0.17

Video Input: Chimera 1080p 10-bit

1. (CXX) g++ options: -O3 -lrt

## Bork File Encrypter 1.4

File Encryption Time

## Renaissance 0.14

Test: Scala Dotty

## Renaissance 0.14

Test: Random Forest

## Renaissance 0.14

Test: Apache Spark Bayes

## Renaissance 0.14

Test: Savina Reactors.IO

## Renaissance 0.14
Test: Apache Spark PageRank

## Renaissance 0.14
Test: Finagle HTTP Requests

## Renaissance 0.14
Test: In-Memory Database Shootout

## Renaissance 0.14
Test: Akka Unbalanced Cobwebbed Tree

## Renaissance 0.14
Test: Genetic Algorithm Using Jenetics + Futures

## CacheBench
Test: Read

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

## CacheBench
Test: Write

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

## CacheBench
Test: Read / Modify / Write

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

## LZ4 Compression 1.10
Compression Level: 1 - Compression Speed

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

## LZ4 Compression 1.10
Compression Level: 1 - Decompression Speed

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

## LZ4 Compression 1.10
Compression Level: 2 - Compression Speed

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

## LZ4 Compression 1.10
Compression Level: 2 - Decompression Speed

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

## LZ4 Compression 1.10
Compression Level: 3 - Compression Speed

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

## LZ4 Compression 1.10
Compression Level: 3 - Decompression Speed

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

## LZ4 Compression 1.10
Compression Level: 9 - Compression Speed

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

## LZ4 Compression 1.10
Compression Level: 9 - Decompression Speed

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

## LZ4 Compression 1.10

Compression Level: 12 - Compression Speed

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

## LZ4 Compression 1.10

Compression Level: 12 - Decompression Speed

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

## Zstd Compression 1.5.4

Compression Level: 3 - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 8 - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 8 - Decompression Speed

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

## Zstd Compression 1.5.4

Compression Level: 12 - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 12 - Decompression Speed

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

## Zstd Compression 1.5.4

Compression Level: 19 - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 19 - Decompression Speed

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

## Zstd Compression 1.5.4

Compression Level: 3, Long Mode - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 3, Long Mode - Decompression Speed

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

## Zstd Compression 1.5.4

Compression Level: 8, Long Mode - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 8, Long Mode - Decompression Speed

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

## Zstd Compression 1.5.4

Compression Level: 19, Long Mode - Compression Speed

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

## Zstd Compression 1.5.4

Compression Level: 19, Long Mode - Decompression Speed

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

## JPEG-XL libjxl 0.10.1
Input: PNG - Quality: 80

1. (CXX) g++ options: -fno-rtti -O3 -fPIE -pie -lm

## JPEG-XL libjxl 0.10.1
Input: PNG - Quality: 90

1. (CXX) g++ options: -fno-rtti -O3 -fPIE -pie -lm

## JPEG-XL libjxl 0.10.1
Input: JPEG - Quality: 80

1. (CXX) g++ options: -fno-rtti -O3 -fPIE -pie -lm

## JPEG-XL libjxl 0.10.1
Input: JPEG - Quality: 90

1. (CXX) g++ options: -fno-rtti -O3 -fPIE -pie -lm

## JPEG-XL libjxl 0.10.1
Input: PNG - Quality: 100

1. (CXX) g++ options: -fno-rtti -O3 -fPIE -pie -lm

## JPEG-XL libjxl 0.10.1

Input: JPEG - Quality: 100

1. (CXX) g++ options: -fno-rtti -O3 -fPIE -pie -lm

## JPEG-XL Decoding libjxl 0.10.1

CPU Threads: 1

## JPEG-XL Decoding libjxl 0.10.1

CPU Threads: All

## WebP Image Encode 1.4

Encode Settings: Default

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

## WebP Image Encode 1.4

Encode Settings: Quality 100

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

## WebP Image Encode 1.4

Encode Settings: Quality 100, Lossless

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

## WebP Image Encode 1.4

Encode Settings: Quality 100, Highest Compression

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

## WebP Image Encode 1.4

Encode Settings: Quality 100, Lossless, Highest Compression

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

## WebP2 Image Encode 20220823

Encode Settings: Default

1. (CXX) g++ options: -fno-rtti -O3

## WebP2 Image Encode 20220823

Encode Settings: Quality 75, Compression Effort 7

1. (CXX) g++ options: -fno-rtti -O3

## WebP2 Image Encode 20220823

Encode Settings: Quality 95, Compression Effort 7

1. (CXX) g++ options: -fno-rtti -O3

## WebP2 Image Encode 20220823

Encode Settings: Quality 100, Compression Effort 5

1. (CXX) g++ options: -fno-rtti -O3

## WebP2 Image Encode 20220823

Encode Settings: Quality 100, Lossless Compression

1. (CXX) g++ options: -fno-rtti -O3

## srsRAN Project 23.10.1-20240325

Test: PDSCH Processor Benchmark, Throughput Total

1. (CXX) g++ options: -O3 -march=native -mavx2 -mavx -msse4.1 -mfma -mavx512f -mavx512cd -mavx512bw -mavx512dq -fno-trapping-math -fno-math-ermo -ldl

## srsRAN Project 23.10.1-20240325

Test: PUSCH Processor Benchmark, Throughput Total

1. (CXX) g++ options: -O3 -march=native -mavx2 -mavx -msse4.1 -mfma -mavx512f -mavx512cd -mavx512bw -mavx512dq -fno-trapping-math -fno-math-ermo -ldl

## srsRAN Project 23.10.1-20240325

Test: PDSCH Processor Benchmark, Throughput Thread

1. (CXX) g++ options: -O3 -march=native -mavx2 -mavx -msse4.1 -mfma -mavx512f -mavx512cd -mavx512bw -mavx512dq -fno-trapping-math -fno-math-ermo -ldl

## srsRAN Project 23.10.1-20240325

Test: PUSCH Processor Benchmark, Throughput Thread

1. (CXX) g++ options: -O3 -march=native -mavx2 -mavx -msse4.1 -mfma -mavx512f -mavx512cd -mavx512bw -mavx512dq -fno-trapping-math -fno-math-ermo -ldl

## Nettle 3.8

Test: aes256

1. (CC) gcc options: -O2 -ggdb3 -lnettle -lgmp -lm -lcrypto

## Nettle 3.8

Test: chacha

1. (CC) gcc options: -O2 -ggdb3 -lnettle -lgmp -lm -lcrypto

## Nettle 3.8

Test: sha512

1. (CC) gcc options: -O2 -ggdb3 -lnettle -lgmp -lm -lcrypto

## Nettle 3.8

Test: poly1305-aes

1. (CC) gcc options: -O2 -ggdb3 -lnettle -lgmp -lm -lcrypto

## 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

## 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

## LuaRadio 0.9.1
Test: Five Back to Back FIR Filters

## LuaRadio 0.9.1
Test: FM Deemphasis Filter

## LuaRadio 0.9.1
Test: Hilbert Transform

## LuaRadio 0.9.1
Test: Complex Phase

## LibRaw 0.20
Post-Processing Benchmark

1. (CXX) g++ options: -O2 -fopenmp -ljpeg -lz -lm

## Crafty 25.2
Elapsed Time

1. (CC) gcc options: -pthread -lstdc++ -fprofile-use -lm

## TSCP 1.81
AI Chess Performance

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

## John The Ripper 2023.03.14
Test: bcrypt

1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -lm -lrt -lz -ldl -lcrypt -lbz2

## John The Ripper 2023.03.14
Test: WPA PSK

1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -lm -lrt -lz -ldl -lcrypt -lbz2

## John The Ripper 2023.03.14
Test: Blowfish

1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -lm -lrt -lz -ldl -lcrypt -lbz2

## John The Ripper 2023.03.14
Test: HMAC-SHA512

1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -lm -lrt -lz -ldl -lcrypt -lbz2

## John The Ripper 2023.03.14

Test: MD5

1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -lm -lrt -lz -ldl -lcrypt -lbz2

## LuxCoreRender 2.6

Scene: DLSC - Acceleration: CPU

## LuxCoreRender 2.6

Scene: Danish Mood - Acceleration: CPU

## LuxCoreRender 2.6

Scene: Orange Juice - Acceleration: CPU

## LuxCoreRender 2.6

Scene: LuxCore Benchmark - Acceleration: CPU

## LuxCoreRender 2.6

Scene: Rainbow Colors and Prism - Acceleration: CPU

## GraphicsMagick 1.3.43
Operation: Swirl

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## GraphicsMagick 1.3.43
Operation: Rotate

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## GraphicsMagick 1.3.43
Operation: Sharpen

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## GraphicsMagick 1.3.43
Operation: Enhanced

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## GraphicsMagick 1.3.43
Operation: Resizing

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## GraphicsMagick 1.3.43
Operation: Noise-Gaussian

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## GraphicsMagick 1.3.43
Operation: HWB Color Space

1. (CC) gcc options: -fopenmp -O2 -ltiff -lwebpmux -lwebp -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lzstd -llzma -lbz2 -lz -lm -lpthread -lgomp

## easyWave r34
Input: e2Asean Grid + BengkuluSept2007 Source - Time: 240

1. (CXX) g++ options: -O3 -fopenmp

## easyWave r34

Input: e2Asean Grid + BengkuluSept2007 Source - Time: 1200

1. (CXX) g++ options: -O3 -fopenmp

## easyWave r34

Input: e2Asean Grid + BengkuluSept2007 Source - Time: 2400

1. (CXX) g++ options: -O3 -fopenmp

## dav1d 1.4.2

Video Input: Chimera 1080p

1. (CC) gcc options: -pthread

## dav1d 1.4.2

Video Input: Summer Nature 4K

1. (CC) gcc options: -pthread

## dav1d 1.4.2

Video Input: Summer Nature 1080p

1. (CC) gcc options: -pthread

## dav1d 1.4.2

Video Input: Chimera 1080p 10-bit

1. (CC) gcc options: -pthread

## Kvazaar 2.2

Video Input: Bosphorus 4K - Video Preset: Slow

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

## Kvazaar 2.2

Video Input: Bosphorus 4K - Video Preset: Medium

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

## Kvazaar 2.2

Video Input: Bosphorus 1080p - Video Preset: Slow

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

## Kvazaar 2.2

Video Input: Bosphorus 1080p - Video Preset: Medium

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

## Kvazaar 2.2

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

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

## Kvazaar 2.2

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

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

## Kvazaar 2.2

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

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

## Kvazaar 2.2

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

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

## Kvazaar 2.2

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

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

## Kvazaar 2.2

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

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

## rav1e 0.7

Speed: 1

## rav1e 0.7

Speed: 5

## rav1e 0.7

Speed: 6

## rav1e 0.7

Speed: 10

## SVT-AV1 2.1

Encoder Mode: Preset 3 - Input: Bosphorus 4K

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 5 - Input: Bosphorus 4K

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 8 - Input: Bosphorus 4K

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 13 - Input: Bosphorus 4K

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 3 - Input: Bosphorus 1080p

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 5 - Input: Bosphorus 1080p

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 8 - Input: Bosphorus 1080p

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-AV1 2.1

Encoder Mode: Preset 13 - Input: Bosphorus 1080p

1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq

## SVT-HEVC 1.5.0

Tuning: 1 - Input: Bosphorus 4K

1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

## SVT-HEVC 1.5.0

Tuning: 10 - Input: Bosphorus 4K

1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

## SVT-HEVC 1.5.0

Tuning: 1 - Input: Bosphorus 1080p

1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

## SVT-HEVC 1.5.0

Tuning: 7 - Input: Bosphorus 1080p

1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

## SVT-HEVC 1.5.0

Tuning: 10 - Input: Bosphorus 1080p

1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

## SVT-VP9 0.3

Tuning: VMAF Optimized - Input: Bosphorus 4K

1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

Tuning: VMAF Optimized - Input: Bosphorus 1080p

1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

Tuning: PSNR/SSIM Optimized - Input: Bosphorus 4K

1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p

1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

Tuning: Visual Quality Optimized - Input: Bosphorus 4K

1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

Tuning: Visual Quality Optimized - Input: Bosphorus 1080p

1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## uvg266 0.8.0

Video Input: Bosphorus 4K - Video Preset: Slow

## uvg266 0.8.0

Video Input: Bosphorus 4K - Video Preset: Medium

## uvg266 0.8.0

Video Input: Bosphorus 1080p - Video Preset: Slow

## uvg266 0.8.0

Video Input: Bosphorus 1080p - Video Preset: Medium

## uvg266 0.8.0

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

## uvg266 0.8.0

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

## uvg266 0.8.0

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

## uvg266 0.8.0

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

## uvg266 0.8.0

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

## uvg266 0.8.0

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

## VP9 libvpx Encoding 1.13

Speed: Speed 0 - Input: Bosphorus 4K

1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

## VP9 libvpx Encoding 1.13

Speed: Speed 5 - Input: Bosphorus 4K

1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

## VP9 libvpx Encoding 1.13

Speed: Speed 0 - Input: Bosphorus 1080p

1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

## VP9 libvpx Encoding 1.13

Speed: Speed 5 - Input: Bosphorus 1080p

1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

## VVenC 1.11

Video Input: Bosphorus 4K - Video Preset: Fast

1. (CXX) g++ options: -O3 -flto=auto -fno-fat-lto-objects

## VVenC 1.11

Video Input: Bosphorus 4K - Video Preset: Faster

1. (CXX) g++ options: -O3 -flto=auto -fno-fat-lto-objects

## VVenC 1.11

Video Input: Bosphorus 1080p - Video Preset: Fast

1. (CXX) g++ options: -O3 -flto=auto -fno-fat-lto-objects

## VVenC 1.11

Video Input: Bosphorus 1080p - Video Preset: Faster

1. (CXX) g++ options: -O3 -flto=auto -fno-fat-lto-objects

## x264 2022-02-22

Video Input: Bosphorus 4K

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

## x264 2022-02-22

Video Input: Bosphorus 1080p

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

## x265 3.6

Video Input: Bosphorus 4K

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

## x265 3.6

Video Input: Bosphorus 1080p

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

## ACES DGEMM 1.0

Sustained Floating-Point Rate

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

## Intel Open Image Denoise 2.3

Run: RT.hdr_alb_nrm.3840x2160 - Device: CPU-Only

## Intel Open Image Denoise 2.3

Run: RT.ldr_alb_nrm.3840x2160 - Device: CPU-Only

## Intel Open Image Denoise 2.3

Run: RTLightmap.hdr.4096x4096 - Device: CPU-Only

## OpenVKL 2.0.0

Benchmark: vklBenchmarkCPU ISPC

## OpenVKL 2.0.0

Benchmark: vklBenchmarkCPU Scalar

## OSPRay 3.1

Benchmark: particle_volume/ao/real_time

## OSPRay 3.1

Benchmark: particle_volume/scivis/real_time

## OSPRay 3.1

Benchmark: particle_volume/pathtracer/real_time

## OSPRay 3.1

Benchmark: gravity_spheres_volume/dim_512/ao/real_time

## OSPRay 3.1

Benchmark: gravity_spheres_volume/dim_512/scivis/real_time

## OSPRay 3.1

Benchmark: gravity_spheres_volume/dim_512/pathtracer/real_time

## Himeno Benchmark 3.0

Poisson Pressure Solver

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

## 7-Zip Compression 24.05

Test: Compression Rating

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

## 7-Zip Compression 24.05

Test: Decompression Rating

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

## Stockfish 16.1

Chess Benchmark

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

## asmFish 2018-07-23

1024 Hash Memory, 26 Depth

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 44100 - Buffer Size: 512

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 96000 - Buffer Size: 512

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 192000 - Buffer Size: 512

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 44100 - Buffer Size: 1024

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 480000 - Buffer Size: 512

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 96000 - Buffer Size: 1024

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 192000 - Buffer Size: 1024

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## Stargate Digital Audio Workstation 22.11.5

Sample Rate: 480000 - Buffer Size: 1024

1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

## PJSIP 2.11
Method: INVITE

1. (CC) gcc options: -lSDL2 -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

## PJSIP 2.11
Method: OPTIONS, Stateful

1. (CC) gcc options: -lSDL2 -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

## PJSIP 2.11
Method: OPTIONS, Stateless

1. (CC) gcc options: -lSDL2 -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

## Timed Apache Compilation 2.4.41
Time To Compile

## Timed FFmpeg Compilation 7.0
Time To Compile

## Timed GCC Compilation 13.2

Time To Compile

## Timed GDB GNU Debugger Compilation 10.2

Time To Compile

## Timed Gem5 Compilation 23.0.1

Time To Compile

## Timed ImageMagick Compilation 6.9.0

Time To Compile

## Timed Linux Kernel Compilation 6.8

Build: defconfig

## Timed Linux Kernel Compilation 6.8

Build: allmodconfig

## Timed LLVM Compilation 16.0

Build System: Ninja

## Timed LLVM Compilation 16.0

Build System: Unix Makefiles

## Timed Node.js Compilation 21.7.2

Time To Compile

## Timed PHP Compilation 8.3.4

Time To Compile

## Timed CPython Compilation 3.10.6

Build Configuration: Default

## Timed CPython Compilation 3.10.6

Build Configuration: Released Build, PGO + LTO Optimized

## Build2 0.15
Time To Compile

## C-Ray 2.0
Resolution: 4K - Rays Per Pixel: 16

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

## C-Ray 2.0
Resolution: 5K - Rays Per Pixel: 16

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

## C-Ray 2.0
Resolution: 1080p - Rays Per Pixel: 16

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

## Parallel BZIP2 Compression 1.1.13
FreeBSD-13.0-RELEASE-amd64-memstick.img Compression

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

## POV-Ray 3.7.0.7

Trace Time

1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -R/usr/lib -lSDL -lXpm -lSM -lICE -lX11 -ltiff -ljpeg -lpng -lz -lrt -lm -lboost_thread -lboost_system

## Smallpt 1.0

Global Illumination Renderer; 128 Samples

1. (CXX) g++ options: -fopenmp -O3

## rays1bench 2020-01-09

Large Scene

## oneDNN 3.4

Harness: IP Shapes 1D - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## oneDNN 3.4

Harness: IP Shapes 3D - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## oneDNN 3.4

Harness: Convolution Batch Shapes Auto - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## oneDNN 3.4

Harness: Deconvolution Batch shapes_1d - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## oneDNN 3.4

Harness: Deconvolution Batch shapes_3d - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## oneDNN 3.4

Harness: Recurrent Neural Network Training - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## oneDNN 3.4

Harness: Recurrent Neural Network Inference - Engine: CPU

1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -ldl

## AOBench

Size: 2048 x 2048 - Total Time

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

## Timed Eigen Compilation 3.3.9

Time To Compile

## Timed Erlang/OTP Compilation 25.0

Time To Compile

## Timed Wasmer Compilation 2.3

Time To Compile

1. (CC) gcc options: -m64 -ldl -lgcc_s -lutil -lrt -lpthread -lm -lc -pie -nodefaultlibs

## 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: -fvisibility=hidden -O2

## dcraw

RAW To PPM Image Conversion

1. (CC) gcc options: -lm

## DeepSpeech 0.6

Acceleration: CPU

## Monkey Audio Encoding 3.99.6

WAV To APE

1. (CXX) g++ options: -O3 -pedantic -rdynamic -lrt

## FLAC Audio Encoding 1.4

WAV To FLAC

1. (CXX) g++ options: -O3 -fvisibility=hidden -logg -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 -lncurses -lm

## Opus Codec Encoding 1.4

WAV To Opus Encode

1. (CXX) g++ options: -O3 -fvisibility=hidden -logg -lm

## eSpeak-NG Speech Engine 1.51

Text-To-Speech Synthesis

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

## Gcrypt Library 1.10.3

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

## Hackbench

Count: 1 - Type: Thread

1. (CC) gcc options: -lpthread

## Hackbench
Count: 2 - Type: Thread

1. (CC) gcc options: -lpthread

## Hackbench
Count: 4 - Type: Thread

1. (CC) gcc options: -lpthread

## Hackbench
Count: 8 - Type: Thread

1. (CC) gcc options: -lpthread

## Hackbench
Count: 1 - Type: Process

1. (CC) gcc options: -lpthread

## Hackbench
Count: 16 - Type: Thread

1. (CC) gcc options: -lpthread

## Hackbench
Count: 2 - Type: Process

1. (CC) gcc options: -lpthread

## Hackbench
Count: 4 - Type: Process

1. (CC) gcc options: -lpthread

## Hackbench
Count: 8 - Type: Process

1. (CC) gcc options: -lpthread

## Hackbench
Count: 16 - Type: Process

1. (CC) gcc options: -lpthread

## Hackbench
Count: 32 - Type: Process

1. (CC) gcc options: -lpthread

## m-queens 1.2
Time To Solve

1. (CXX) g++ options: -fopenmp -O2 -march=native

## Ngspice 34
Circuit: C2670

1. (CC) gcc options: -O0 -fopenmp -lm -lstdc++ -lfftw3 -lXaw -lXmu -lXt -lXext -lX11 -lSM -lICE

## Ngspice 34
Circuit: C7552

1. (CC) gcc options: -O0 -fopenmp -lm -lstdc++ -lfftw3 -lXaw -lXmu -lXt -lXext -lX11 -lSM -lICE

## Perl Benchmarks
Test: Pod2html

## Perl Benchmarks
Test: Interpreter

## R Benchmark

## RNNoise 0.2

Input: 26 Minute Long Talking Sample

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

## System GZIP Decompression

## System XZ Decompression

## Tachyon 0.99.2

Total Time

1. (CC) gcc options: -m64 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

## Google SynthMark 20201109

Test: VoiceMark_100

1. (CXX) g++ options: -lm -lpthread -std=c++11 -Ofast

## Aircrack-ng 1.7

1. (CXX) g++ options: -std=gnu++17 -O3 -fvisibility=hidden -fcommon -rdynamic -lnl-3 -lnl-genl-3 -lpcre -lsqlite3 -lpthread -lz -lssl -lcrypto -lhwloc -ldl -lm -pthread

## SecureMark 1.0.4

Benchmark: SecureMark-TLS

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

## OpenJPEG 2.4

Encode: NASA Curiosity Panorama M34

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

## ArrayFire 3.9

Test: BLAS CPU FP16

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

## ArrayFire 3.9
Test: BLAS CPU FP32

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

## ArrayFire 3.9
Test: Black Scholes CPU

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

## ArrayFire 3.9
Test: Conjugate Gradient CPU

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

## ArrayFire 3.9
Test: Neural Network CPU FP32

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

## OpenSSL 3.3
Algorithm: SHA256

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

## OpenSSL 3.3
Algorithm: SHA512

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

## OpenSSL 3.3
Algorithm: RSA4096

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

## OpenSSL 3.3
Algorithm: RSA4096

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

## OpenSSL 3.3
Algorithm: ChaCha20

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

## OpenSSL 3.3
Algorithm: AES-128-GCM

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

## OpenSSL 3.3

Algorithm: AES-256-GCM

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

## OpenSSL 3.3

Algorithm: ChaCha20-Poly1305

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

## Node.js V8 Web Tooling Benchmark

## Liquid-DSP 1.6

Threads: 1 - Buffer Length: 256 - Filter Length: 32

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 1 - Buffer Length: 256 - Filter Length: 57

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 2 - Buffer Length: 256 - Filter Length: 32

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 2 - Buffer Length: 256 - Filter Length: 57

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 4 - Buffer Length: 256 - Filter Length: 32

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 4 - Buffer Length: 256 - Filter Length: 57

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 8 - Buffer Length: 256 - Filter Length: 32

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 8 - Buffer Length: 256 - Filter Length: 57

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 1 - Buffer Length: 256 - Filter Length: 512

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 16 - Buffer Length: 256 - Filter Length: 32

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 16 - Buffer Length: 256 - Filter Length: 57

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 2 - Buffer Length: 256 - Filter Length: 512

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 32 - Buffer Length: 256 - Filter Length: 32

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 32 - Buffer Length: 256 - Filter Length: 57

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 4 - Buffer Length: 256 - Filter Length: 512

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 8 - Buffer Length: 256 - Filter Length: 512

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 16 - Buffer Length: 256 - Filter Length: 512

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 1.6

Threads: 32 - Buffer Length: 256 - Filter Length: 512

1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## etcd 3.5.4

Test: PUT - Connections: 50 - Clients: 100

## etcd 3.5.4

Test: PUT - Connections: 50 - Clients: 100 - Average Latency

## etcd 3.5.4

Test: PUT - Connections: 100 - Clients: 100

## etcd 3.5.4

Test: PUT - Connections: 100 - Clients: 100 - Average Latency

## etcd 3.5.4

Test: PUT - Connections: 50 - Clients: 1000

## etcd 3.5.4

Test: PUT - Connections: 50 - Clients: 1000 - Average Latency

## etcd 3.5.4

Test: PUT - Connections: 500 - Clients: 100

## etcd 3.5.4

Test: PUT - Connections: 500 - Clients: 100 - Average Latency

## etcd 3.5.4

Test: PUT - Connections: 100 - Clients: 1000

## etcd 3.5.4

Test: PUT - Connections: 100 - Clients: 1000 - Average Latency

## etcd 3.5.4

Test: PUT - Connections: 500 - Clients: 1000

## etcd 3.5.4

Test: PUT - Connections: 500 - Clients: 1000 - Average Latency

## etcd 3.5.4

Test: RANGE - Connections: 50 - Clients: 100

## etcd 3.5.4

Test: RANGE - Connections: 50 - Clients: 100 - Average Latency

## etcd 3.5.4

Test: RANGE - Connections: 100 - Clients: 100

## etcd 3.5.4

Test: RANGE - Connections: 100 - Clients: 100 - Average Latency

## etcd 3.5.4

Test: RANGE - Connections: 50 - Clients: 1000

## etcd 3.5.4

Test: RANGE - Connections: 50 - Clients: 1000 - Average Latency

## etcd 3.5.4

Test: RANGE - Connections: 500 - Clients: 100

## etcd 3.5.4

Test: RANGE - Connections: 500 - Clients: 100 - Average Latency

## etcd 3.5.4

Test: RANGE - Connections: 100 - Clients: 1000

## etcd 3.5.4

Test: RANGE - Connections: 100 - Clients: 1000 - Average Latency

## etcd 3.5.4

Test: RANGE - Connections: 500 - Clients: 1000

## etcd 3.5.4

Test: RANGE - Connections: 500 - Clients: 1000 - Average Latency

## CockroachDB 22.2

Workload: MoVR - Concurrency: 128

## CockroachDB 22.2

Workload: MoVR - Concurrency: 256

## CockroachDB 22.2

Workload: MoVR - Concurrency: 512

## CockroachDB 22.2

Workload: MoVR - Concurrency: 1024

## CockroachDB 22.2

Workload: KV, 10% Reads - Concurrency: 128

## CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 256

## CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 512

## CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 128

## CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 256

## CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 512

## CockroachDB 22.2
Workload: KV, 60% Reads - Concurrency: 128

## CockroachDB 22.2
Workload: KV, 60% Reads - Concurrency: 256

## CockroachDB 22.2
Workload: KV, 60% Reads - Concurrency: 512

## CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 128

## CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 256

## CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 512

## CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 1024

## CockroachDB 22.2

Workload: KV, 50% Reads - Concurrency: 1024

## CockroachDB 22.2

Workload: KV, 60% Reads - Concurrency: 1024

## CockroachDB 22.2

Workload: KV, 95% Reads - Concurrency: 1024

## Dragonflydb 1.6.2

Clients Per Thread: 10 - Set To Get Ratio: 1:1

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 10 - Set To Get Ratio: 1:5

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 10 - Set To Get Ratio: 5:1

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 20 - Set To Get Ratio: 1:1

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 20 - Set To Get Ratio: 1:5

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 20 - Set To Get Ratio: 5:1

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 50 - Set To Get Ratio: 1:1

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 50 - Set To Get Ratio: 1:5

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 50 - Set To Get Ratio: 5:1

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 10 - Set To Get Ratio: 1:10

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Dragonflydb 1.6.2

Clients Per Thread: 20 - Set To Get Ratio: 1:10

1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

## Redis 7.0.4

Test: GET - Parallel Connections: 50

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

## Redis 7.0.4

Test: SET - Parallel Connections: 500

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

## Redis 7.0.4

Test: SET - Parallel Connections: 1000

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

## Redis 7.0.4

Test: SADD - Parallel Connections: 1000

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

## Redis 7.0.4

Test: LPUSH - Parallel Connections: 1000

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

## FinanceBench 2016-07-25

Benchmark: Repo OpenMP

1. (CXX) g++ options: -O3 -march=native -fopenmp

## FinanceBench 2016-07-25

Benchmark: Bonds OpenMP

1. (CXX) g++ options: -O3 -march=native -fopenmp

## ASTC Encoder 4.7

Preset: Fast

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

## ASTC Encoder 4.7

Preset: Medium

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

## ASTC Encoder 4.7

Preset: Thorough

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

## ASTC Encoder 4.7

Preset: Exhaustive

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

## ASTC Encoder 4.7

Preset: Very Thorough

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

## libjpeg-turbo tjbench 2.1.0

Test: Decompression Throughput

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

## MariaDB 11.5

Test: oltp_read_only - Threads: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 16

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_only - Threads: 768

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 16

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 16

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_read_write - Threads: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_write_only - Threads: 768

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 16

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 16

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_point_select - Threads: 768

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_index - Threads: 768

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 16

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB 11.5

Test: oltp_update_non_index - Threads: 768

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## KeyDB 6.3.2

Test: GET - Parallel Connections: 50

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SET - Parallel Connections: 50

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: GET - Parallel Connections: 100

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: GET - Parallel Connections: 500

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: GET - Parallel Connections: 900

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPOP - Parallel Connections: 50

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SADD - Parallel Connections: 50

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SET - Parallel Connections: 100

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SET - Parallel Connections: 500

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SET - Parallel Connections: 900

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: HMSET - Parallel Connections: 50

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPOP - Parallel Connections: 100

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPOP - Parallel Connections: 500

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPOP - Parallel Connections: 900

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPUSH - Parallel Connections: 50

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SADD - Parallel Connections: 100

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SADD - Parallel Connections: 500

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: SADD - Parallel Connections: 900

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: HMSET - Parallel Connections: 100

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: HMSET - Parallel Connections: 500

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: HMSET - Parallel Connections: 900

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPUSH - Parallel Connections: 100

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPUSH - Parallel Connections: 500

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## KeyDB 6.3.2

Test: LPUSH - Parallel Connections: 900

1. (CXX) g++ options: -ggdb -rdynamic -lm -lz -lcrypto -lbz2 -lzstd -llz4 -lsnappy -latomic -ldl -pthread -lrt -luuid -lcurl -lsystemd -lssl -std=c++14 -pedantic -fno-rtti -

## TensorFlow Lite 2022-05-18

Model: SqueezeNet

## TensorFlow Lite 2022-05-18

Model: Inception V4

## TensorFlow Lite 2022-05-18
Model: NASNet Mobile

## TensorFlow Lite 2022-05-18
Model: Mobilenet Float

## TensorFlow Lite 2022-05-18
Model: Mobilenet Quant

## TensorFlow Lite 2022-05-18
Model: Inception ResNet V2

## MariaDB mariadb-slap 11.5
Clients: 1

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5
Clients: 32

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5
Clients: 64

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5
Clients: 128

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5
Clients: 256

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5
Clients: 512

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5

Clients: 1024

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5

Clients: 2048

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5

Clients: 4096

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## MariaDB mariadb-slap 11.5

Clients: 8192

1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -lpcre2-8 -lcrypt -laio -lsystemd -lz -lm -lssl -lcrypto -lpthread -ldl

## KTX-Software toktx 4.0

Settings: UASTC 3

## KTX-Software toktx 4.0

Settings: Zstd Compression 9

## KTX-Software toktx 4.0

Settings: Zstd Compression 19

## KTX-Software toktx 4.0

Settings: UASTC 3 + Zstd Compression 19

## KTX-Software toktx 4.0

Settings: UASTC 4 + Zstd Compression 19

## GEGL

Operation: Crop

## GEGL

Operation: Scale

## GEGL
Operation: Cartoon

## GEGL
Operation: Reflect

## GEGL
Operation: Antialias

## GEGL
Operation: Tile Glass

## GEGL
Operation: Wavelet Blur

## GEGL
Operation: Color Enhance

## GEGL

Operation: Rotate 90 Degrees

## GNU Octave Benchmark 7.3.0

## librsvg

Operation: SVG Files To PNG

1. rsvg-convert version 2.50.7

## Google Draco 1.5.6

Model: Lion

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

## Google Draco 1.5.6

Model: Church Facade

1. (CXX) g++ options: -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

## Stress-NG 0.17.08

Test: Hash

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: MMAP

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: NUMA

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Pipe

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Poll

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Zlib

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: Futex

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: MEMFD

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: Mutex

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: Atomic

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Crypto

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Malloc

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Cloning

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Forking

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Pthread

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: AVL Tree

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: SENDFILE

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: CPU Cache

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: CPU Stress

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: Power Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: Semaphores

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08

Test: Matrix Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Vector Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: AVX-512 VNNI

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Function Call

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: x86_64 RdRand

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Floating Point

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Matrix 3D Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Memory Copying

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Vector Shuffle

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Mixed Scheduler

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Socket Activity

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Exponential Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Jpeg Compression

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Logarithmic Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Wide Vector Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Context Switching

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Fractal Generator

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Radix String Sort

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Fused Multiply-Add

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Trigonometric Math

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Bitonic Integer Sort

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Vector Floating Point

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Glibc C String Functions

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: Glibc Qsort Data Sorting

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Stress-NG 0.17.08
Test: System V Message Passing

1. (CXX) g++ options: -lm -laio -latomic -lcrypt -ldl -ljpeg -lEGL -lGLESv2 -lgmp -lmpfr -lsctp -lz -lrt -lpthread -lc -std=gnu99 -O2 -U_FORTIFY_SOURCE

## Caffe 2020-02-13

Model: AlexNet - Acceleration: CPU - Iterations: 100

1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgflags -lprotobu

## Caffe 2020-02-13

Model: AlexNet - Acceleration: CPU - Iterations: 200

1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgflags -lprotobu

## Caffe 2020-02-13

Model: AlexNet - Acceleration: CPU - Iterations: 1000

1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgflags -lprotobu

## Caffe 2020-02-13

Model: GoogleNet - Acceleration: CPU - Iterations: 100

1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgflags -lprotobu

## Caffe 2020-02-13

Model: GoogleNet - Acceleration: CPU - Iterations: 200

1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgflags -lprotobu

## Caffe 2020-02-13

Model: GoogleNet - Acceleration: CPU - Iterations: 1000

1. (CXX) g++ options: -fPIC -O3 -rdynamic -lboost_system -lboost_thread -lboost_filesystem -lboost_chrono -lboost_date_time -lboost_atomic -lglog -lgflags -lprotobu

## Mobile Neural Network 2.1

Model: nasnet

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: mobilenetV3

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: squeezenetv1.1

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: resnet-v2-50

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: SqueezeNetV1.0

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: MobileNetV2_224

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: mobilenet-v1-1.0

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## Mobile Neural Network 2.1

Model: inception-v3

1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-exception

## NCNN 20230517

Target: CPU - Model: mobilenet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU-v2-v2 - Model: mobilenet-v2

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU-v3-v3 - Model: mobilenet-v3

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: shufflenet-v2

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: mnasnet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: efficientnet-b0

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: blazeface

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: googlenet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: vgg16

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: resnet18

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: alexnet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: resnet50

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: yolov4-tiny

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: squeezenet_ssd

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: regnety_400m

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: vision_transformer

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: CPU - Model: FastestDet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: mobilenet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU-v2-v2 - Model: mobilenet-v2

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU-v3-v3 - Model: mobilenet-v3

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: shufflenet-v2

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: mnasnet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: efficientnet-b0

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: blazeface

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: googlenet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: vgg16

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: resnet18

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: alexnet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: resnet50

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: yolov4-tiny

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: squeezenet_ssd

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: regnety_400m

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: vision_transformer

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## NCNN 20230517

Target: Vulkan GPU - Model: FastestDet

1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

## TNN 0.3

Target: CPU - Model: DenseNet

1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

## TNN 0.3

Target: CPU - Model: MobileNet v2

1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

## TNN 0.3

Target: CPU - Model: SqueezeNet v2

1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

## TNN 0.3

Target: CPU - Model: SqueezeNet v1.1

1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

## Blender 4.2
Blend File: BMW27 - Compute: CPU-Only

## Blender 4.2
Blend File: Junkshop - Compute: CPU-Only

## Blender 4.2
Blend File: Classroom - Compute: CPU-Only

## Blender 4.2
Blend File: Fishy Cat - Compute: CPU-Only

## Blender 4.2
Blend File: Barbershop - Compute: CPU-Only

## Blender 4.2
Blend File: Pabellon Barcelona - Compute: CPU-Only

## ctx_clock
Context Switch Time

## PETSc 3.19
Test: Streams

1. (CC) gcc options: -fPIC -O3 -O2 -lpthread -ludev -lpciaccess -lm

## Apache Cassandra 4.1.3
Test: Writes

## Apache Cassandra 4.1.3
Test: Mixed 1:1

## Apache Cassandra 4.1.3
Test: Mixed 1:3

## RocksDB 9.0
Test: Overwrite

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Random Fill

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Random Read

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Update Random

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Sequential Fill

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Random Fill Sync

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Read While Writing

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## RocksDB 9.0
Test: Read Random Write Random

1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti

## ScyllaDB 5.2.9
Test: Writes

## ScyllaDB 5.2.9
Test: Mixed 1:1

## ScyllaDB 5.2.9

Test: Mixed 1:3

## PyBench 2018-02-16

Total For Average Test Times

## nginx 1.23.2

Connections: 100

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## nginx 1.23.2

Connections: 200

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## nginx 1.23.2

Connections: 500

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## nginx 1.23.2
Connections: 1000

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## NeatBench 5
Acceleration: All

## NeatBench 5
Acceleration: CPU

## Natron 2.4.3
Input: Spaceship

## Apache HTTP Server 2.4.56
Concurrent Requests: 100

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## Apache HTTP Server 2.4.56

Concurrent Requests: 200

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## Apache HTTP Server 2.4.56

Concurrent Requests: 500

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## Apache HTTP Server 2.4.56

Concurrent Requests: 1000

1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2

## Appleseed 2.0 Beta

Scene: Emily

## Appleseed 2.0 Beta

Scene: Disney Material

## Appleseed 2.0 Beta
Scene: Material Tester

## PHPBench 0.8.1
PHP Benchmark Suite

## WavPack Audio Encoding 5.7
WAV To WavPack

## GnuPG 2.2.27
2.7GB Sample File Encryption

1. (CC) gcc options: -O2

## PHP Micro Benchmarks
Test: Zend bench

## PHP Micro Benchmarks
Test: Zend micro_bench

## Tesseract OCR 4.1.1

Time To OCR 7 Images

## Kripke 1.2.6

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

## BRL-CAD 7.38.2

VGR Performance Metric

1. (CXX) g++ options: -std=c++17 -pipe -fvisibility=hidden -fno-strict-aliasing -fno-common -fexceptions -ftemplate-depth-128 -m64 -ggdb3 -O3 -fipa-pta -fstrength

## Schbench 2021-09-09

Message Threads: 1

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

## Schbench 2021-09-09

Message Threads: 1

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

## Schbench 2021-09-09
Message Threads: 1

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

## Schbench 2021-09-09
Message Threads: 1

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

## Schbench 2021-09-09
Message Threads: 2

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

## Schbench 2021-09-09
Message Threads: 2

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

## Schbench 2021-09-09
Message Threads: 2

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

## Schbench 2021-09-09
Message Threads: 2

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

## Schbench 2021-09-09
Message Threads: 4

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

## Schbench 2021-09-09
Message Threads: 4

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

## Schbench 2021-09-09
Message Threads: 4

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

## Schbench 2021-09-09
Message Threads: 4

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

## Schbench 2021-09-09
Message Threads: 8

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

## Schbench 2021-09-09
Message Threads: 8

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

## Schbench 2021-09-09
Message Threads: 8

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

## Schbench 2021-09-09
Message Threads: 8

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

## Schbench 2021-09-09
Message Threads: 16

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

## Schbench 2021-09-09
Message Threads: 16

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

## Schbench 2021-09-09
Message Threads: 16

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

## Schbench 2021-09-09
Message Threads: 16

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

## Schbench 2021-09-09
Message Threads: 32

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

## Schbench 2021-09-09
Message Threads: 32

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

## Schbench 2021-09-09
Message Threads: 32

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

## Schbench 2021-09-09
Message Threads: 32

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

## Schbench 2021-09-09
Message Threads: 64

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

## Schbench 2021-09-09
Message Threads: 64

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

## Schbench 2021-09-09
Message Threads: 64

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

## Schbench 2021-09-09
Message Threads: 64

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

## Schbench 2021-09-09
Message Threads: 128

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

## Schbench 2021-09-09
Message Threads: 128

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

## Schbench 2021-09-09
Message Threads: 128

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

## Schbench 2021-09-09
Message Threads: 128

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

## Schbench 2021-09-09

Message Threads: 256

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

## Schbench 2021-09-09

Message Threads: 256

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

## Schbench 2021-09-09

Message Threads: 256

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

## Schbench 2021-09-09

Message Threads: 256

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

## InfluxDB 1.8.2

Concurrent Streams: 4 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000

## InfluxDB 1.8.2

Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000

## InfluxDB 1.8.2

Concurrent Streams: 1024 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000

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