



bench-10-17-21-all

AMD Ryzen 9 5900HX testing with a HX90 (5.19 BIOS) and AMD Cezanne on Ubuntu 21.10 via the Phoronix Test Suite.

Test Systems:

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

Processor: AMD Ryzen 9 5900HX @ 3.30GHz (8 Cores / 16 Threads), Motherboard: HX90 (5.19 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 64GB, Disk: 1000GB KINGSTON SNVS1000G + 750GB Crucial CT750MX3 + 257GB Flash Drive FIT, Graphics: AMD Cezanne (2100/400MHz), Audio: AMD Renoir Radeon HD Audio, Monitor: DELL U3818DW, Network: Intel I225-V + Intel Wi-Fi 6 AX200

OS: Ubuntu 21.10, Kernel: 5.14.12-051412-generic (x86_64), Desktop: LXQt 0.17.0, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.2.2 (LLVM 12.0.1), Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x1600

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu

```
--enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release
--enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto
--enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgc-nvptx=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-gcn/usr
--enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64
--with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32
--with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
```

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

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa50000c

Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-Ubuntu-0ubuntu3)

Python Notes: Python 3.9.7

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

**KINGSTON SNVS1000G - Intel
I225-V - AMD Ryzen 9 5900HX**

LevelDB - Hot Read (us/Op) 4.516

Standard Deviation 1.1%

LevelDB - Fill Sync (MB/s) 0.3

Standard Deviation 0%

LevelDB - Fill Sync (us/Op) 6177

Standard Deviation 1.1%

LevelDB - Overwrite (MB/s) 60.7

Standard Deviation 0.6%

LevelDB - Overwrite (us/Op) 29.135

Standard Deviation 0.6%

LevelDB - Rand Fill (MB/s) 60.8

Standard Deviation 0.2%

LevelDB - Rand Fill (us/Op) 29.116

Standard Deviation 0.1%

LevelDB - Rand Read (us/Op) 4.564

Standard Deviation 0.4%

LevelDB - Seek Rand (us/Op) 6.069

Standard Deviation 0.6%

LevelDB - Rand Delete (us/Op) 27.118

Standard Deviation 0.6%

LevelDB - Seq Fill (MB/s) 67.2

Standard Deviation 0.6%

LevelDB - Seq Fill (us/Op) 26.337

Standard Deviation 0.6%

SQLite - 1 (sec) 63.183

Standard Deviation 1.4%

SQLite - 8 (sec) 357.770

Standard Deviation 0.3%

SQLite - 32 (sec) 1027

Standard Deviation 0.2%

SQLite - 64 (sec) 1707

Standard Deviation 0.3%

SQLite - 128 (sec) 2284

Standard Deviation 0.4%

Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 2MB (MB/s) 1880

Standard Deviation 1.5%

Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 2MB (IOPS) 936

	Standard Deviation	1.4%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)		630
	Standard Deviation	2.5%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)		161333
	Standard Deviation	2.3%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 2MB (MB/s)		1205
	Standard Deviation	49.1%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 2MB (IOPS)		599
	Standard Deviation	49.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)		652.2
	Standard Deviation	57.7%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)		166967
	Standard Deviation	57.7%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 2MB (MB/s)		1980
	Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 2MB (IOPS)		986
	Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)		584
	Standard Deviation	14.6%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)		149425
	Standard Deviation	14.6%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 2MB (MB/s)		1217
	Standard Deviation	46.2%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 2MB (IOPS)		605
	Standard Deviation	46.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)		777
	Standard Deviation	33.5%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)		198873
	Standard Deviation	33.5%
FS-Mark - 1.F.1.S (Files/s)		221.6
	Standard Deviation	3.5%
FS-Mark - 5.F.1.S.4.T (Files/s)		554.9
	Standard Deviation	3%
FS-Mark - 4.F.3.S.D.1.S (Files/s)		223.3
	Standard Deviation	2.4%
FS-Mark - 1.F.1.S.N.S.F (Files/s)		2582
	Standard Deviation	0.5%
BlogBench - Read (Final Score)		3345268
	Standard Deviation	1.1%
BlogBench - Write (Final Score)		23895
	Standard Deviation	9.3%
Dbench - 12 Clients (MB/s)		849.937
	Standard Deviation	0.2%
Dbench - 1 Clients (MB/s)		119.467
	Standard Deviation	1.6%
IOR - 2MB (MB/s)		943.39
	Standard Deviation	0.2%
IOR - 4MB (MB/s)		1045
	Standard Deviation	9.7%
IOR - 8MB (MB/s)		1125
	Standard Deviation	5.5%
IOR - 16MB (MB/s)		1160
	Standard Deviation	7.8%

IOR - 32MB (MB/s)	1250
Standard Deviation	2.1%
IOR - 64MB (MB/s)	1268
Standard Deviation	2.3%
IOR - 256MB (MB/s)	1160
Standard Deviation	10.8%
IOR - 512MB (MB/s)	1193
Standard Deviation	1.2%
IOR - 1024MB (MB/s)	1332
Standard Deviation	0.5%
PostMark - D.T.P (TPS)	7282
Standard Deviation	1.7%
C-Blosc - blosclz (MB/s)	12354
Standard Deviation	0.5%
High Performance Conjugate Gradient (GFLOP/s)	4.90863
Standard Deviation	0.1%
NAS Parallel Benchmarks - BT.C (Mop/s)	17014
Standard Deviation	0.3%
NAS Parallel Benchmarks - CG.C (Mop/s)	6000
Standard Deviation	0.2%
NAS Parallel Benchmarks - EP.C (Mop/s)	870.74
Standard Deviation	0.2%
NAS Parallel Benchmarks - EP.D (Mop/s)	861.45
Standard Deviation	0.4%
NAS Parallel Benchmarks - FT.C (Mop/s)	14172
Standard Deviation	0.5%
NAS Parallel Benchmarks - IS.D (Mop/s)	807.00
Standard Deviation	0.3%
NAS Parallel Benchmarks - LU.C (Mop/s)	27515
Standard Deviation	0.2%
NAS Parallel Benchmarks - MG.C (Mop/s)	11346
Standard Deviation	0.1%
NAS Parallel Benchmarks - SP.B (Mop/s)	6105
Standard Deviation	0.1%
NAS Parallel Benchmarks - SP.C (Mop/s)	6181
Standard Deviation	0.2%
Rodinia - OpenMP LavaMD (sec)	24.893
Standard Deviation	1.3%
Rodinia - OpenMP CFD Solver (sec)	19.911
Standard Deviation	0.1%
Rodinia - OpenMP LavaMD (sec)	204.816
Standard Deviation	2%
Rodinia - OpenMP HotSpot3D (sec)	69.405
Standard Deviation	6.7%
Rodinia - OpenMP Leukocyte (sec)	96.666
Standard Deviation	0.6%
Rodinia - OpenMP CFD Solver (sec)	19.943
Standard Deviation	0.2%
Rodinia - O.S (sec)	16.349
Standard Deviation	0.1%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	1.95918
Standard Deviation	2%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	2.07498

	Standard Deviation	0.1%
Algebraic Multi-Grid Benchmark (Figure Of Merit)		249811600
	Standard Deviation	0%
Pennant - sedovbig (Hydro Cycle Time - sec)		83.56110
	Standard Deviation	1%
Pennant - leblancbig (Hydro Cycle Time - sec)		62.22293
	Standard Deviation	0.2%
LAMMPS Molecular Dynamics Simulator - 20k Atoms (ns/day)		6.517
	Standard Deviation	0.5%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein		6.862
	Standard Deviation	0.4%
libgav1 - Chimera 1080p (FPS)		181.27
	Standard Deviation	0.2%
libgav1 - Summer Nature 4K (FPS)		67.70
	Standard Deviation	0.1%
libgav1 - S.N.1 (FPS)		219.36
	Standard Deviation	0.2%
libgav1 - C.1.1.b (FPS)		60.82
	Standard Deviation	0.8%
simdjson - Kostya (GB/s)		3.52
	Standard Deviation	0.4%
simdjson - LargeRand (GB/s)		1.25
	Standard Deviation	0%
simdjson - PartialTweets (GB/s)		4.79
	Standard Deviation	0.1%
simdjson - DistinctUserID (GB/s)		5.68
	Standard Deviation	0%
Java SciMark - Composite (Mflops)		3610
	Standard Deviation	0.9%
Java SciMark - Monte Carlo (Mflops)		1887
	Standard Deviation	0.1%
Java SciMark - F.F.T (Mflops)		2657
	Standard Deviation	1.3%
Java SciMark - S.M.M (Mflops)		3120
	Standard Deviation	0.5%
Java SciMark - D.L.M.F (Mflops)		8189
	Standard Deviation	1.6%
Java SciMark - J.S.O.R (Mflops)		2195
	Standard Deviation	0%
Bork File Encrypter - F.E.T (sec)		6.621
	Standard Deviation	0.6%
Java Gradle Build - Reactor (sec)		171.933
	Standard Deviation	3.8%
DaCapo Benchmark - H2 (msec)		3830
	Standard Deviation	6.8%
DaCapo Benchmark - Jython (msec)		3728
	Standard Deviation	1.4%
DaCapo Benchmark - Tradesoap (msec)		4261
	Standard Deviation	2%
DaCapo Benchmark - Tradebeans (msec)		4030
	Standard Deviation	4.4%
Zstd Compression - 3 - Compression Speed (MB/s)		1911
	Standard Deviation	0.1%

Zstd Compression - 3 - D.S (MB/s)	4102
Standard Deviation	0.5%
Zstd Compression - 8 - Compression Speed (MB/s)	267.9
Standard Deviation	0.3%
Zstd Compression - 8 - D.S (MB/s)	4234
Standard Deviation	0.6%
Zstd Compression - 19 - Compression Speed (MB/s)	30.5
Standard Deviation	1.6%
Zstd Compression - 19 - D.S (MB/s)	3496
Standard Deviation	1.5%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	951.0
Standard Deviation	0.9%
Zstd Compression - 3, Long Mode - D.S (MB/s)	4401
Standard Deviation	1.2%
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	250.5
Standard Deviation	0%
Zstd Compression - 8, Long Mode - D.S (MB/s)	4501
Standard Deviation	1.5%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	26.9
Standard Deviation	2%
Zstd Compression - 19, Long Mode - D.S (MB/s)	3616
Standard Deviation	2.9%
ArrayFire - BLAS CPU (GFLOPS)	301.859
Standard Deviation	1%
Node.js Express HTTP Load Test (Reqs/sec)	5815
Standard Deviation	1.1%
LuxCoreRender - DLSC - CPU (M samples/sec)	1.91
Standard Deviation	0.9%
LuxCoreRender - Danish Mood - CPU (M samples/sec)	1.31
Standard Deviation	1.8%
LuxCoreRender - Orange Juice - CPU (M samples/sec)	2.91
Standard Deviation	0.9%
LuxCoreRender - LuxCore Benchmark - CPU (M samples/sec)	1.47
Standard Deviation	2.1%
LuxCoreRender - R.C.a.P - CPU (M samples/sec)	8.39
Standard Deviation	0.7%
GraphicsMagick - Swirl (Iterations/min)	594
Standard Deviation	0.1%
GraphicsMagick - Rotate (Iterations/min)	733
Standard Deviation	1%
GraphicsMagick - Sharpen (Iterations/min)	117
Standard Deviation	0.5%
GraphicsMagick - Enhanced (Iterations/min)	220
Standard Deviation	1.2%
GraphicsMagick - Resizing (Iterations/min)	1001
Standard Deviation	0.6%
GraphicsMagick - Noise-Gaussian (Iterations/min)	262
Standard Deviation	1.3%
GraphicsMagick - HWB Color Space (Iterations/min)	778
Standard Deviation	0.1%
dav1d - Chimera 1080p (FPS)	555.63
Standard Deviation	0.3%
dav1d - Summer Nature 4K (FPS)	150.72

	Standard Deviation	0.1%
dav1d - S.N.1 (FPS)		525.12
	Standard Deviation	0.3%
dav1d - C.1.1.b (FPS)		357.14
	Standard Deviation	0.2%
OSPray - San Miguel - SciVis (FPS)		15.23
	Standard Deviation	0.9%
OSPray - XFrog Forest - SciVis (FPS)		2.73
	Standard Deviation	0%
OSPray - San Miguel - Path Tracer (FPS)		1.16
	Standard Deviation	1.5%
OSPray - NASA Streamlines - SciVis (FPS)		20.41
	Standard Deviation	0%
OSPray - XFrog Forest - Path Tracer (FPS)		1.40
	Standard Deviation	0.6%
OSPray - M.R - SciVis (FPS)		11.03
	Standard Deviation	0.6%
OSPray - NASA Streamlines - Path Tracer (FPS)		3.92
	Standard Deviation	0.7%
OSPray - M.R - Path Tracer (FPS)		166.67
	Standard Deviation	0%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)		670.821
	Standard Deviation	0.5%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)		0.13
	Standard Deviation	0%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)		3.98
	Standard Deviation	0.1%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)		9.71
	Standard Deviation	0.7%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)		7.69
	Standard Deviation	0.6%
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)		36.98
	Standard Deviation	0.6%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)		46.92
	Standard Deviation	0.4%
AOM AV1 - Speed 10 Realtime - Bosphorus 4K (FPS)		50.98
	Standard Deviation	0.7%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)		0.31
	Standard Deviation	0%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)		8.42
	Standard Deviation	0.3%
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)		8.78
	Standard Deviation	0.4%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)		20.36
	Standard Deviation	0.2%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)		95.94
	Standard Deviation	0.1%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)		113.24
	Standard Deviation	0.3%
AOM AV1 - Speed 10 Realtime - Bosphorus 1080p (FPS)		118.16
	Standard Deviation	0.2%
Embree - Pathtracer - Crown (FPS)		11.8063
	Standard Deviation	0.4%

Embree - Pathtracer ISPC - Crown (FPS)	10.9077
Standard Deviation	1%
Embree - Pathtracer - Asian Dragon (FPS)	12.9944
Standard Deviation	1.2%
Embree - Pathtracer - Asian Dragon Obj (FPS)	12.0862
Standard Deviation	0.2%
Embree - Pathtracer ISPC - Asian Dragon (FPS)	12.0709
Standard Deviation	0.7%
Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	10.8952
Standard Deviation	1.1%
Kvazaar - Bosphorus 4K - Slow (FPS)	7.81
Standard Deviation	0.3%
Kvazaar - Bosphorus 4K - Medium (FPS)	7.97
Standard Deviation	0.8%
Kvazaar - Bosphorus 1080p - Slow (FPS)	37.88
Standard Deviation	0.3%
Kvazaar - Bosphorus 1080p - Medium (FPS)	39.01
Standard Deviation	0.5%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	17.89
Standard Deviation	1.3%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	30.06
Standard Deviation	0.3%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	71.25
Standard Deviation	0.4%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	119.81
Standard Deviation	0.5%
rav1e - 1 (FPS)	0.528
Standard Deviation	0.6%
rav1e - 5 (FPS)	1.544
Standard Deviation	0.2%
rav1e - 6 (FPS)	2.045
Standard Deviation	0.4%
rav1e - 10 (FPS)	4.616
Standard Deviation	0.6%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	1.512
Standard Deviation	0.2%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	14.915
Standard Deviation	0.3%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	5.097
Standard Deviation	0.9%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	51.629
Standard Deviation	0.5%
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	8.36
Standard Deviation	2.2%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	88.74
Standard Deviation	0.1%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	189.81
Standard Deviation	0.4%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	124.76
Standard Deviation	3.5%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	129.31
Standard Deviation	0.2%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	103.53

	Standard Deviation	0.5%
VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)		6.88
	Standard Deviation	0.9%
VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)		15.88
	Standard Deviation	0.2%
VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)		14.50
	Standard Deviation	0.6%
VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)		32.56
	Standard Deviation	0.5%
x264 - H.2.V.E (FPS)		100.55
	Standard Deviation	3.3%
x264 - H.2.V.E (FPS)		101.19
	Standard Deviation	3.3%
x265 - Bosphorus 4K (FPS)		11.13
	Standard Deviation	2.1%
x265 - Bosphorus 1080p (FPS)		51.01
	Standard Deviation	1.9%
ACES DGEMM - S.F.P.R (GFLOP/s)		2.886725
	Standard Deviation	1.3%
Intel Open Image Denoise - RT.hdr_alb_nrm.3840x2160 (Images /		0.34
	Standard Deviation	2%
Intel Open Image Denoise - RT.ldr_alb_nrm.3840x2160 (Images /		0.34
	Standard Deviation	1%
Intel Open Image Denoise - RTLightmap.hdr.4096x4096 (Images /		0.17
	Standard Deviation	1.2%
OpenVKL - vkIBenchmark ISPC (Items / Sec)		34
	Standard Deviation	0%
OpenVKL - v.S (Items / Sec)		17
	Standard Deviation	2.4%
Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)		409596
	Standard Deviation	0.8%
Stockfish - Total Time (Nodes/s)		29010900
	Standard Deviation	1.6%
Stockfish - Total Time (Nodes/s)		26771799
	Standard Deviation	2.4%
asmFish - 1.H.M.2.D (Nodes/s)		30392248
	Standard Deviation	1.3%
Swet - Average (Operations/sec)		975491949
	Standard Deviation	2.2%
ebizzy (Records/s)		579864
	Standard Deviation	2.5%
libavif avifenc - 0 (sec)		62.867
	Standard Deviation	0.2%
libavif avifenc - 2 (sec)		33.192
	Standard Deviation	0.7%
libavif avifenc - 6 (sec)		11.687
	Standard Deviation	0.4%
libavif avifenc - 10 (sec)		3.165
	Standard Deviation	0%
libavif avifenc - 6, Lossless (sec)		53.419
	Standard Deviation	0.3%
libavif avifenc - 10, Lossless (sec)		5.376
	Standard Deviation	0.3%

Timed Apache Compilation - Time To Compile (sec)	20.093
Standard Deviation	0.2%
Timed FFmpeg Compilation - Time To Compile (sec)	54.262
Standard Deviation	0.3%
Timed Godot Game Engine Compilation - Time To Compile (sec)	125.542
Standard Deviation	0.4%
Timed ImageMagick Compilation - Time To Compile (sec)	30.779
Standard Deviation	0.8%
Timed LLVM Compilation - Ninja (sec)	715.568
Standard Deviation	0.1%
Timed LLVM Compilation - Unix Makefiles (sec)	738.184
Standard Deviation	0.2%
Timed MPlayer Compilation - Time To Compile (sec)	36.385
Standard Deviation	0.5%
Timed Node.js Compilation - Time To Compile (sec)	459.302
Standard Deviation	0.1%
Timed PHP Compilation - Time To Compile (sec)	58.357
Standard Deviation	2.3%
Build2 - Time To Compile (sec)	135.061
Standard Deviation	0.7%
C-Ray - Total Time - 4.1.R.P.P (sec)	59.865
Standard Deviation	2.4%
Parallel BZIP2 Compression - 2.F.C (sec)	3.499
Standard Deviation	7.5%
POV-Ray - Trace Time (sec)	42.067
Standard Deviation	0.3%
Primesieve - 1.P.N.G (sec)	21.850
Standard Deviation	1.4%
Rust Mandelbrot - T.T.C.S.P.M (sec)	37.676
Standard Deviation	0%
Rust Prime Benchmark - P.N.T.T.2.0.0 (sec)	10.709
Standard Deviation	0.1%
Smallpt - G.I.R.1.S (sec)	9.513
Standard Deviation	1.2%
rays1bench - Large Scene (mrays/s)	61.01
Standard Deviation	0.3%
oneDNN - IP Shapes 1D - f32 - CPU (ms)	4.12362
Standard Deviation	0.2%
oneDNN - IP Shapes 3D - f32 - CPU (ms)	7.47225
Standard Deviation	0.2%
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	1.50446
Standard Deviation	0.2%
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	1.75423
Standard Deviation	0.1%
oneDNN - C.B.S.A - f32 - CPU (ms)	15.0974
Standard Deviation	0.1%
oneDNN - D.B.s - f32 - CPU (ms)	8.24406
Standard Deviation	4%
oneDNN - D.B.s - f32 - CPU (ms)	6.92119
Standard Deviation	2.4%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	15.4028
Standard Deviation	0.3%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	1.94344

	Standard Deviation	1.7%
oneDNN - D.B.s - u8s8f32 - CPU (ms)		3.06565
	Standard Deviation	6.7%
oneDNN - R.N.N.T - f32 - CPU (ms)		3388
	Standard Deviation	0.2%
oneDNN - R.N.N.I - f32 - CPU (ms)		1909
	Standard Deviation	0.2%
oneDNN - R.N.N.T - u8s8f32 - CPU (ms)		3390
	Standard Deviation	0.1%
oneDNN - R.N.N.I - u8s8f32 - CPU (ms)		1903
	Standard Deviation	0.4%
oneDNN - M.M.B.S.T - f32 - CPU (ms)		3.33228
	Standard Deviation	0%
oneDNN - R.N.N.T - bf16bf16bf16 - CPU (ms)		3390
	Standard Deviation	0.1%
oneDNN - R.N.N.I - bf16bf16bf16 - CPU (ms)		1910
	Standard Deviation	0.4%
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)		2.72328
	Standard Deviation	0.2%
Numpy Benchmark (Score)		438.50
	Standard Deviation	0.1%
AOBench - 2048 x 2048 - Total Time (sec)		29.299
	Standard Deviation	0.3%
Timed Eigen Compilation - Time To Compile (sec)		71.029
	Standard Deviation	0.5%
Timed Erlang/OTP Compilation - Time To Compile (sec)		124.614
	Standard Deviation	0.4%
Timed Wasmer Compilation - Time To Compile (sec)		79.975
	Standard Deviation	0.4%
Cython Benchmark - N-Queens (sec)		18.015
	Standard Deviation	1.4%
FFmpeg - H.2.H.T.N.D (sec)		5.265
	Standard Deviation	2.5%
m-queens - Time To Solve (sec)		61.334
	Standard Deviation	0.1%
N-Queens - Elapsed Time (sec)		13.891
	Standard Deviation	0.6%
Perl Benchmarks - Pod2html (sec)		0.09440449
	Standard Deviation	0.3%
Perl Benchmarks - Interpreter (sec)		0.00092768
	Standard Deviation	1.2%
Radiance Benchmark - Serial (sec)		470.687
Radiance Benchmark - SMP Parallel (sec)		152.919
Tachyon - Total Time (sec)		81.8644
	Standard Deviation	0.4%
OpenSSL - R.4.b.P (Signs/sec)		2507
	Standard Deviation	0.1%
Cpuminer-Opt - Magi (kH/s)		454.46
	Standard Deviation	2.6%
Cpuminer-Opt - x25x (kH/s)		285.19
	Standard Deviation	2.5%
Cpuminer-Opt - Deepcoin (kH/s)		8708
	Standard Deviation	1.5%

Cpuminer-Opt - Ringcoin (kH/s) 2022
Standard Deviation 1%

Cpuminer-Opt - Blake-2 S (kH/s) 413893
Standard Deviation 2.4%

Cpuminer-Opt - Garlicoin (kH/s) 2084
Standard Deviation 1.1%

Cpuminer-Opt - Skeincoin (kH/s) 82468
Standard Deviation 2.5%

Cpuminer-Opt - Myriad-Groestl (kH/s) 18323
Standard Deviation 1.2%

Cpuminer-Opt - LBC, LBRY Credits (kH/s) 25847
Standard Deviation 1.3%

Cpuminer-Opt - Q.S.2.P (kH/s) 80277
Standard Deviation 2.5%

Cpuminer-Opt - T.S.2.O (kH/s) 198463
Standard Deviation 1.6%

OpenSSL - SHA256 (byte/s) 13252647760
Standard Deviation 1.4%

OpenSSL - RSA4096 (sign/s) 2444
Standard Deviation 1.3%

OpenSSL - RSA4096 (verify/s) 158397
Standard Deviation 0.3%

Node.js V8 Web Tooling Benchmark (runs/s) 11.86
Standard Deviation 0.1%

Apache CouchDB - 100 - 1000 - 24 (sec) 64.489
Standard Deviation 0.3%

ASKAP - tConvolve MT - Gridding (Million Grid Points/sec) 1093
Standard Deviation 9.1%

ASKAP - tConvolve MT - Degriding (Million Grid Points/sec) 1955
Standard Deviation 0.6%

ASKAP - tConvolve MPI - Degriding (Mpix/sec) 2322
Standard Deviation 0.9%

ASKAP - tConvolve MPI - Gridding (Mpix/sec) 2040
Standard Deviation 1.6%

ASKAP - tConvolve OpenMP - Gridding (Million Grid Points/sec) 1554
Standard Deviation 0.3%

ASKAP - tConvolve OpenMP - Degriding (Million Grid Points/sec) 2905
Standard Deviation 0.6%

ASKAP - H.C.O (Iterations/sec) 203.392
Standard Deviation 0.4%

Cryptsetup - PBKDF2-sha512 (Iterations/sec) 2356423
Standard Deviation 0.7%

Cryptsetup - PBKDF2-whirlpool (Iterations/sec) 862790
Standard Deviation 0.2%

Cryptsetup - A.X.2.E (MiB/s) 4923
Standard Deviation 6.6%

Cryptsetup - A.X.2.D (MiB/s) 4921
Standard Deviation 4%

Cryptsetup - S.X.2.E (MiB/s) 880.0
Standard Deviation 2.8%

Cryptsetup - S.X.2.D (MiB/s) 868.7
Standard Deviation 1.6%

Cryptsetup - T.X.2.E (MiB/s) 476.7

	Standard Deviation	0.4%
Cryptsetup - T.X.2.D (MiB/s)		491.7
	Standard Deviation	0.9%
Cryptsetup - A.X.5.E (MiB/s)		4087
	Standard Deviation	2.2%
Cryptsetup - A.X.5.D (MiB/s)		4076
	Standard Deviation	2.1%
Cryptsetup - S.X.5.E (MiB/s)		879.2
	Standard Deviation	1.3%
Cryptsetup - S.X.5.D (MiB/s)		869.7
	Standard Deviation	1.6%
Cryptsetup - T.X.5.E (MiB/s)		482.0
	Standard Deviation	1.1%
Cryptsetup - T.X.5.D (MiB/s)		493.2
	Standard Deviation	1.1%
KeyDB (Ops/sec)		358624
	Standard Deviation	0.6%
Intel MPI Benchmarks - IMB-P2P PingPong (Msg/sec)		13635104
	Standard Deviation	0.6%
Intel MPI Benchmarks - IMB-MPI1 Exchange (Mbytes/sec)		10941
	Standard Deviation	1.7%
Intel MPI Benchmarks - IMB-MPI1 Exchange (usec)		189.94
	Standard Deviation	1.2%
Intel MPI Benchmarks - IMB-MPI1 PingPong (Mbytes/sec)		8924
	Standard Deviation	3.9%
Intel MPI Benchmarks - IMB-MPI1 Sendrecv (Mbytes/sec)		8782
	Standard Deviation	8.1%
Intel MPI Benchmarks - IMB-MPI1 Sendrecv (usec)		103.44
	Standard Deviation	4.9%
GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)		0.918
	Standard Deviation	0.2%
MariaDB - 1 (Queries/sec)		546
	Standard Deviation	6.7%
MariaDB - 8 (Queries/sec)		296
	Standard Deviation	5.9%
MariaDB - 16 (Queries/sec)		294
	Standard Deviation	5.6%
MariaDB - 32 (Queries/sec)		270
	Standard Deviation	5.3%
MariaDB - 64 (Queries/sec)		249
	Standard Deviation	3.8%
MariaDB - 128 (Queries/sec)		221
	Standard Deviation	1.2%
MariaDB - 256 (Queries/sec)		231
	Standard Deviation	0.9%
MariaDB - 512 (Queries/sec)		214
	Standard Deviation	3.8%
MariaDB - 1024 (Queries/sec)		94
	Standard Deviation	0.9%
MariaDB - 2048 (Queries/sec)		113
	Standard Deviation	1.4%
MariaDB - 4096 (Queries/sec)		109
	Standard Deviation	1.3%

PostgreSQL pgbench - 1 - 1 - Read Only (TPS)	34019
Standard Deviation	2.2%
PostgreSQL pgbench - 1 - 1 - Read Only - Average Latency (ms)	0.029
Standard Deviation	2%
PostgreSQL pgbench - 1 - 1 - Read Write (TPS)	309
Standard Deviation	0.1%
PostgreSQL pgbench - 1 - 1 - Read Write - Average Latency (ms)	3.237
Standard Deviation	0.1%
PostgreSQL pgbench - 1 - 50 - Read Only (TPS)	315241
Standard Deviation	0.3%
PostgreSQL pgbench - 1 - 50 - Read Only - Average Latency (ms)	0.159
Standard Deviation	0.4%
PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	300407
Standard Deviation	1.5%
PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	0.333
Standard Deviation	1.5%
PostgreSQL pgbench - 1 - 250 - Read Only (TPS)	240771
Standard Deviation	1.4%
PostgreSQL pgbench - 1 - 250 - Read Only - Average Latency (ms)	1.039
Standard Deviation	1.4%
PostgreSQL pgbench - 1 - 50 - Read Write (TPS)	302
Standard Deviation	0.2%
PostgreSQL pgbench - 1 - 50 - Read Write - Average Latency (ms)	165.460
Standard Deviation	0.2%
PostgreSQL pgbench - 1 - 500 - Read Only (TPS)	210570
Standard Deviation	2.5%
PostgreSQL pgbench - 1 - 500 - Read Only - Average Latency (ms)	2.376
Standard Deviation	2.5%
PostgreSQL pgbench - 100 - 1 - Read Only (TPS)	31335
Standard Deviation	0.2%
PostgreSQL pgbench - 100 - 1 - Read Only - Average Latency (ms)	0.032
Standard Deviation	0%
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	291
Standard Deviation	0.3%
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	343.742
Standard Deviation	0.3%
PostgreSQL pgbench - 1 - 250 - Read Write (TPS)	271
Standard Deviation	0.8%
PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)	922.282
Standard Deviation	0.8%
PostgreSQL pgbench - 1 - 500 - Read Write (TPS)	247
Standard Deviation	5%
PostgreSQL pgbench - 1 - 500 - Read Write - Average Latency (ms)	2025
Standard Deviation	5.1%
PostgreSQL pgbench - 100 - 1 - Read Write (TPS)	299
Standard Deviation	0.8%
PostgreSQL pgbench - 100 - 1 - Read Write - Average Latency (ms)	3.344
Standard Deviation	0.8%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	300042
Standard Deviation	0.8%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	0.167
Standard Deviation	0.9%
PostgreSQL pgbench - 1000 - 1 - Read Only (TPS)	26329

	Standard Deviation	1.2%
PostgreSQL pgbench - 1000 - 1 - Read Only - Average Latency (ms)		0.038
	Standard Deviation	1.5%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)		289245
	Standard Deviation	0.9%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency		0.346
	Standard Deviation	0.9%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)		222335
	Standard Deviation	2.3%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency		1.125
	Standard Deviation	2.3%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)		6612
	Standard Deviation	0.1%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency		7.562
	Standard Deviation	0.1%
PostgreSQL pgbench - 100 - 500 - Read Only (TPS)		195710
	Standard Deviation	0.2%
PostgreSQL pgbench - 100 - 500 - Read Only - Average Latency		2.555
	Standard Deviation	0.2%
PostgreSQL pgbench - 1000 - 1 - Read Write (TPS)		276
	Standard Deviation	13.7%
PostgreSQL pgbench - 1000 - 1 - Read Write - Average Latency		3.711
	Standard Deviation	19%
PostgreSQL pgbench - 1000 - 50 - Read Only (TPS)		264294
	Standard Deviation	1.4%
PostgreSQL pgbench - 1000 - 50 - Read Only - Average Latency		0.189
	Standard Deviation	1.3%
PostgreSQL pgbench - 10000 - 1 - Read Only (TPS)		3840
	Standard Deviation	7.8%
PostgreSQL pgbench - 10000 - 1 - Read Only - Average Latency		0.262
	Standard Deviation	7.9%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)		8028
	Standard Deviation	21.6%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency		13.080
	Standard Deviation	24.2%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)		9927
	Standard Deviation	17.6%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency		25.891
	Standard Deviation	17%
PostgreSQL pgbench - 100 - 500 - Read Write (TPS)		10322
	Standard Deviation	17.5%
PostgreSQL pgbench - 100 - 500 - Read Write - Average Latency		49.769
	Standard Deviation	16.6%
PostgreSQL pgbench - 1000 - 100 - Read Only (TPS)		256857
	Standard Deviation	0.7%
PostgreSQL pgbench - 1000 - 100 - Read Only - Average Latency		0.389
	Standard Deviation	0.6%
PostgreSQL pgbench - 1000 - 250 - Read Only (TPS)		234453
	Standard Deviation	0.3%
PostgreSQL pgbench - 1000 - 250 - Read Only - Average Latency		1.066
	Standard Deviation	0.3%
PostgreSQL pgbench - 1000 - 50 - Read Write (TPS)		5260
	Standard Deviation	10.8%

PostgreSQL pgbench - 1000 - 50 - Read Write - Average Latency 9.606
 Standard Deviation 10.9%
 PostgreSQL pgbench - 1000 - 500 - Read Only (TPS) 165989
 Standard Deviation 1.4%
PostgreSQL pgbench - 1000 - 500 - Read Only - Average Latency 3.013
 Standard Deviation 1.4%
 PostgreSQL pgbench - 10000 - 1 - Read Write (TPS) 185
 Standard Deviation 40.4%
PostgreSQL pgbench - 10000 - 1 - Read Write - Average Latency 6.654
 Standard Deviation 55.7%
 PostgreSQL pgbench - 10000 - 50 - Read Only (TPS) 57393
 Standard Deviation 19.4%
PostgreSQL pgbench - 10000 - 50 - Read Only - Average Latency 0.903
 Standard Deviation 20.5%
 PostgreSQL pgbench - 1000 - 100 - Read Write (TPS) 7063
 Standard Deviation 22.7%
PostgreSQL pgbench - 1000 - 100 - Read Write - Average Latency 14.980
 Standard Deviation 27.5%
 PostgreSQL pgbench - 1000 - 250 - Read Write (TPS) 8687
 Standard Deviation 19.6%
PostgreSQL pgbench - 1000 - 250 - Read Write - Average Latency 30.042
 Standard Deviation 25.1%
 PostgreSQL pgbench - 1000 - 500 - Read Write (TPS) 8116
 Standard Deviation 13.9%
PostgreSQL pgbench - 1000 - 500 - Read Write - Average Latency 62.511
 Standard Deviation 12.5%
 PostgreSQL pgbench - 10000 - 100 - Read Only (TPS) 70906
 Standard Deviation 5.7%
PostgreSQL pgbench - 10000 - 100 - Read Only - Average Latency 1.414
 Standard Deviation 6%
 PostgreSQL pgbench - 10000 - 250 - Read Only (TPS) 68486
 Standard Deviation 1.2%
PostgreSQL pgbench - 10000 - 250 - Read Only - Average Latency 3.651
 Standard Deviation 1.2%
 PostgreSQL pgbench - 10000 - 50 - Read Write (TPS) 2551
 Standard Deviation 24.2%
PostgreSQL pgbench - 10000 - 50 - Read Write - Average Latency 20.773
 Standard Deviation 28.7%
 PostgreSQL pgbench - 10000 - 500 - Read Only (TPS) 58227
 Standard Deviation 8.4%
PostgreSQL pgbench - 10000 - 500 - Read Only - Average Latency 8.642
 Standard Deviation 8.4%
 PostgreSQL pgbench - 10000 - 100 - Read Write (TPS) 4583
 Standard Deviation 9.5%
PostgreSQL pgbench - 10000 - 100 - Read Write - Average Latency 22.009
 Standard Deviation 10.1%
 PostgreSQL pgbench - 10000 - 250 - Read Write (TPS) 6072
 Standard Deviation 34.3%
PostgreSQL pgbench - 10000 - 250 - Read Write - Average Latency 44.977
 Standard Deviation 30.4%
 PostgreSQL pgbench - 10000 - 500 - Read Write (TPS) 6427

	Standard Deviation	18.2%
PostgreSQL pgbench - 10000 - 500 - Read Write - Average Latency		80.317
		(ms)
	Standard Deviation	19.8%
SQLite Speedtest - Timed Time - Size 1,000 (sec)		55.266
	Standard Deviation	0.2%
Redis - LPOP (Reqs/sec)		3591580
	Standard Deviation	0.5%
Redis - SADD (Reqs/sec)		2881602
	Standard Deviation	1.2%
Redis - LPUSH (Reqs/sec)		2181844
	Standard Deviation	0.1%
Redis - GET (Reqs/sec)		3354314
	Standard Deviation	2%
Redis - SET (Reqs/sec)		2600523
	Standard Deviation	1%
ctx_clock - C.S.T (Clocks)		165
	Standard Deviation	0%
Sysbench - CPU (Events/sec)		45384
	Standard Deviation	0.5%
Sysbench - RAM / Memory (MiB/sec)		22436
	Standard Deviation	2.2%
Sysbench - CPU (Events/sec)		44795
	Standard Deviation	0.3%
IndigoBench - CPU - Bedroom (M samples/s)		2.028
	Standard Deviation	0.5%
IndigoBench - CPU - Supercar (M samples/s)		4.146
	Standard Deviation	0.4%
Apache Cassandra - Reads (Op/s)		82327
	Standard Deviation	6.8%
Apache Cassandra - Writes (Op/s)		100465
	Standard Deviation	1.7%
Apache Cassandra - Mixed 1:1 (Op/s)		81074
	Standard Deviation	2.3%
Apache Cassandra - Mixed 1:3 (Op/s)		82327
	Standard Deviation	2.4%
Facebook RocksDB - Rand Fill (Op/s)		782104
	Standard Deviation	19.6%
Facebook RocksDB - Rand Read (Op/s)		64603198
	Standard Deviation	0.2%
Facebook RocksDB - Update Rand (Op/s)		521883
	Standard Deviation	0.7%
Facebook RocksDB - Seq Fill (Op/s)		1459439
	Standard Deviation	0.3%
Facebook RocksDB - Rand Fill Sync (Op/s)		1796
	Standard Deviation	36.6%
Facebook RocksDB - Read While Writing (Op/s)		1985733
	Standard Deviation	2.8%
Facebook RocksDB - R.R.W.R (Op/s)		1632605
	Standard Deviation	1.5%
Blender - BMW27 - CPU-Only (sec)		160.92
	Standard Deviation	1.1%
Blender - Classroom - CPU-Only (sec)		468.86

	Standard Deviation	0.8%
Blender - Fishy Cat - CPU-Only (sec)		214.27
	Standard Deviation	0.4%
Blender - Pabellon Barcelona - CPU-Only (sec)		517.99
	Standard Deviation	0.5%
Xsbench (Lookups/s)		2678460
	Standard Deviation	0.2%
Memcached mcperf - Add - 1 (Operations/sec)		100491
	Standard Deviation	0.3%
Memcached mcperf - Add - 4 (Operations/sec)		100650
	Standard Deviation	0.6%
Memcached mcperf - Get - 1 (Operations/sec)		160736
	Standard Deviation	0.4%
Memcached mcperf - Get - 4 (Operations/sec)		160209
	Standard Deviation	0.6%
Memcached mcperf - Set - 1 (Operations/sec)		100299
	Standard Deviation	0.5%
Memcached mcperf - Set - 4 (Operations/sec)		100465
	Standard Deviation	0.3%
Memcached mcperf - Add - 16 (Operations/sec)		101415
	Standard Deviation	0.2%
Memcached mcperf - Add - 32 (Operations/sec)		100993
	Standard Deviation	0.4%
Memcached mcperf - Add - 64 (Operations/sec)		101284
	Standard Deviation	0.4%
Memcached mcperf - Get - 16 (Operations/sec)		161386
	Standard Deviation	0.2%
Memcached mcperf - Get - 32 (Operations/sec)		161459
	Standard Deviation	0.1%
Memcached mcperf - Get - 64 (Operations/sec)		161355
	Standard Deviation	0.1%
Memcached mcperf - Set - 16 (Operations/sec)		100981
	Standard Deviation	0.3%
Memcached mcperf - Set - 32 (Operations/sec)		101258
	Standard Deviation	0.3%
Memcached mcperf - Set - 64 (Operations/sec)		100929
	Standard Deviation	0.4%
Memcached mcperf - Add - 128 (Operations/sec)		100693
	Standard Deviation	0.8%
Memcached mcperf - Add - 256 (Operations/sec)		101275
	Standard Deviation	0.4%
Memcached mcperf - Get - 128 (Operations/sec)		161424
	Standard Deviation	0.4%
Memcached mcperf - Get - 256 (Operations/sec)		160597
	Standard Deviation	0.8%
Memcached mcperf - Set - 128 (Operations/sec)		101116
	Standard Deviation	0.2%
Memcached mcperf - Set - 256 (Operations/sec)		101501
	Standard Deviation	0.3%
Memcached mcperf - Append - 1 (Operations/sec)		112278
	Standard Deviation	0.5%
Memcached mcperf - Append - 4 (Operations/sec)		112171
	Standard Deviation	0.7%

Memcached mcperf - Delete - 1 (Operations/sec)	160069
Standard Deviation	0.6%
Memcached mcperf - Delete - 4 (Operations/sec)	160064
Standard Deviation	0.2%
Memcached mcperf - Append - 16 (Operations/sec)	112705
Standard Deviation	0.6%
Memcached mcperf - Append - 32 (Operations/sec)	111825
Standard Deviation	1.3%
Memcached mcperf - Append - 64 (Operations/sec)	112167
Standard Deviation	0.5%
Memcached mcperf - Delete - 16 (Operations/sec)	160095
Standard Deviation	0.1%
Memcached mcperf - Delete - 32 (Operations/sec)	160454
Standard Deviation	0.4%
Memcached mcperf - Delete - 64 (Operations/sec)	160682
Standard Deviation	0.1%
Memcached mcperf - Prepend - 1 (Operations/sec)	112784
Standard Deviation	0.4%
Memcached mcperf - Prepend - 4 (Operations/sec)	112247
Standard Deviation	0.8%
Memcached mcperf - Replace - 1 (Operations/sec)	111916
Standard Deviation	0.4%
Memcached mcperf - Replace - 4 (Operations/sec)	111973
Standard Deviation	0.2%
Memcached mcperf - Append - 128 (Operations/sec)	111693
Standard Deviation	0.5%
Memcached mcperf - Append - 256 (Operations/sec)	112800
Standard Deviation	0.2%
Memcached mcperf - Delete - 128 (Operations/sec)	161539
Standard Deviation	0.2%
Memcached mcperf - Delete - 256 (Operations/sec)	161880
Standard Deviation	0.4%
Memcached mcperf - Prepend - 16 (Operations/sec)	112929
Standard Deviation	0.7%
Memcached mcperf - Prepend - 32 (Operations/sec)	112706
Standard Deviation	0.3%
Memcached mcperf - Prepend - 64 (Operations/sec)	113150
Standard Deviation	0.4%
Memcached mcperf - Replace - 16 (Operations/sec)	112967
Standard Deviation	0.6%
Memcached mcperf - Replace - 32 (Operations/sec)	112586
Standard Deviation	0.1%
Memcached mcperf - Replace - 64 (Operations/sec)	113033
Standard Deviation	0.7%
Memcached mcperf - Prepend - 128 (Operations/sec)	112823
Standard Deviation	0.6%
Memcached mcperf - Prepend - 256 (Operations/sec)	113082
Standard Deviation	0.3%
Memcached mcperf - Replace - 128 (Operations/sec)	112580
Standard Deviation	0.7%
Memcached mcperf - Replace - 256 (Operations/sec)	113309
Standard Deviation	0.4%
PyBench - T.F.A.T.T (Milliseconds)	769

	Standard Deviation	1%
PyPerformance - go (Milliseconds)		191
	Standard Deviation	0.3%
PyPerformance - 2to3 (Milliseconds)		290
	Standard Deviation	0.2%
PyPerformance - chaos (Milliseconds)		84.5
	Standard Deviation	0.3%
PyPerformance - float (Milliseconds)		91.6
	Standard Deviation	0.5%
PyPerformance - nbody (Milliseconds)		95.2
	Standard Deviation	1.1%
PyPerformance - pathlib (Milliseconds)		16.3
	Standard Deviation	0%
PyPerformance - raytrace (Milliseconds)		358
	Standard Deviation	0.2%
PyPerformance - json_loads (Milliseconds)		17.9
	Standard Deviation	0%
PyPerformance - crypto_pyaes (Milliseconds)		79.1
	Standard Deviation	0.2%
PyPerformance - regex_compile (Milliseconds)		134
	Standard Deviation	0%
PyPerformance - python_startup (Milliseconds)		8.01
	Standard Deviation	0.1%
PyPerformance - django_template (Milliseconds)		37.0
	Standard Deviation	0.3%
PyPerformance - pickle_pure_python (Milliseconds)		336
	Standard Deviation	0.3%
nginx - 1 (Reqs/sec)		63710
	Standard Deviation	2.4%
nginx - 20 (Reqs/sec)		534171
	Standard Deviation	0.9%
nginx - 100 (Reqs/sec)		516271
	Standard Deviation	0.1%
nginx - 200 (Reqs/sec)		504779
	Standard Deviation	1%
nginx - 500 (Reqs/sec)		489802
	Standard Deviation	1.5%
nginx - 1000 (Reqs/sec)		472060
	Standard Deviation	0.9%
Apache HBase - Increment - 1 (Rows/sec)		11244
	Standard Deviation	4.4%
Apache HBase - Increment - 1 (us - Latency)		88
	Standard Deviation	4.6%
Apache HBase - Increment - 4 (Rows/sec)		18420
	Standard Deviation	3.9%
Apache HBase - Increment - 4 (us - Latency)		216
	Standard Deviation	4.1%
Apache HBase - Increment - 16 (Rows/sec)		64867
	Standard Deviation	1.3%
Apache HBase - Increment - 16 (us - Latency)		245
	Standard Deviation	0.9%
Apache HBase - Increment - 32 (Rows/sec)		68219
	Standard Deviation	0.5%

Apache HBase - Increment - 32 (us - Latency) 466
Standard Deviation 0.9%

Apache HBase - Increment - 64 (Rows/sec) 69538
Standard Deviation 0.6%

Apache HBase - Increment - 64 (us - Latency) 916
Standard Deviation 0.9%

Apache HBase - Increment - 128 (Rows/sec) 66628
Standard Deviation 2.7%

Apache HBase - Increment - 128 (us - Latency) 1913
Standard Deviation 2.8%

Apache HBase - Increment - 256 (Rows/sec) 59671
Standard Deviation 0.5%

Apache HBase - Increment - 256 (us - Latency) 4162
Standard Deviation 5.4%

Apache HBase - Rand Read - 1 (Rows/sec) 17033
Standard Deviation 4.7%

Apache HBase - Rand Read - 1 (us - Latency) 58
Standard Deviation 5.3%

Apache HBase - Rand Read - 4 (Rows/sec) 70020
Standard Deviation 2.3%

Apache HBase - Rand Read - 4 (us - Latency) 56
Standard Deviation 2.3%

Apache HBase - Rand Read - 16 (Rows/sec) 128993
Standard Deviation 2.1%

Apache HBase - Rand Read - 16 (us - Latency) 122
Standard Deviation 2.1%

Apache HBase - Rand Read - 32 (Rows/sec) 144088
Standard Deviation 1.7%

Apache HBase - Rand Read - 32 (us - Latency) 220
Standard Deviation 1.9%

Apache HBase - Rand Read - 64 (Rows/sec) 160214
Standard Deviation 1.1%

Apache HBase - Rand Read - 64 (us - Latency) 396
Standard Deviation 1%

Apache HBase - Rand Write - 1 (Rows/sec) 79427
Standard Deviation 6.6%

Apache HBase - Rand Write - 1 (us - Latency) 12
Standard Deviation 7.1%

Apache HBase - Rand Write - 4 (Rows/sec) 240114
Standard Deviation 29.1%

Apache HBase - Rand Write - 4 (us - Latency) 23
Standard Deviation 118.9%

Apache HBase - Rand Read - 128 (Rows/sec) 166676
Standard Deviation 0.4%

Apache HBase - Rand Read - 128 (us - Latency) 762
Standard Deviation 0.3%

Apache HBase - Rand Read - 256 (Rows/sec) 160882
Standard Deviation 3.8%

Apache HBase - Rand Read - 256 (us - Latency) 1586
Standard Deviation 3.7%

Apache HBase - Rand Write - 16 (Rows/sec) 155054
Standard Deviation 61.4%

Apache HBase - Rand Write - 16 (us - Latency) 161

	Standard Deviation	68.7%
Apache HBase - Rand Write - 32 (Rows/sec)		60104
	Standard Deviation	43.6%
Apache HBase - Rand Write - 32 (us - Latency)		660
	Standard Deviation	53.2%
Apache HBase - Rand Write - 64 (Rows/sec)		22936
	Standard Deviation	17.7%
Apache HBase - Rand Write - 64 (us - Latency)		2843
	Standard Deviation	15.1%
Apache HBase - Rand Write - 128 (Rows/sec)		18329
	Standard Deviation	10.1%
Apache HBase - Rand Write - 128 (us - Latency)		7031
	Standard Deviation	10.5%
Apache HBase - Seq Read - 1 (Rows/sec)		21526
	Standard Deviation	11.4%
Apache HBase - Seq Read - 1 (us - Latency)		46
	Standard Deviation	16.6%
Apache HBase - Seq Read - 4 (Rows/sec)		60294
	Standard Deviation	4%
Apache HBase - Seq Read - 4 (us - Latency)		65
	Standard Deviation	4.2%
Apache HBase - Seq Read - 16 (Rows/sec)		103816
	Standard Deviation	2.4%
Apache HBase - Seq Read - 16 (us - Latency)		153
	Standard Deviation	2.5%
Apache HBase - Seq Read - 32 (Rows/sec)		105430
	Standard Deviation	2.3%
Apache HBase - Seq Read - 32 (us - Latency)		302
	Standard Deviation	2.4%
Apache HBase - Seq Read - 64 (Rows/sec)		121435
	Standard Deviation	2.3%
Apache HBase - Seq Read - 64 (us - Latency)		525
	Standard Deviation	2.3%
Apache HBase - Seq Write - 1 (Rows/sec)		106982
	Standard Deviation	10%
Apache HBase - Seq Write - 1 (us - Latency)		9
	Standard Deviation	12.1%
Apache HBase - Seq Write - 4 (Rows/sec)		129082
	Standard Deviation	108.3%
Apache HBase - Seq Write - 4 (us - Latency)		85
	Standard Deviation	76.5%
Apache HBase - Async Rand Read - 1 (Rows/sec)		17264
	Standard Deviation	12.2%
Apache HBase - Async Rand Read - 1 (us - Latency)		55
	Standard Deviation	8.4%
Apache HBase - Async Rand Read - 4 (Rows/sec)		50201
	Standard Deviation	6.7%
Apache HBase - Async Rand Read - 4 (us - Latency)		79
	Standard Deviation	7.5%
Apache HBase - Seq Read - 128 (Rows/sec)		130337
	Standard Deviation	1.9%
Apache HBase - Seq Read - 128 (us - Latency)		978
	Standard Deviation	1.9%

Apache HBase - Seq Read - 256 (Rows/sec)	135303
Standard Deviation	2.3%
Apache HBase - Seq Read - 256 (us - Latency)	1888
Standard Deviation	2.2%
Apache HBase - Seq Write - 16 (Rows/sec)	92692
Standard Deviation	147.5%
Apache HBase - Seq Write - 16 (us - Latency)	497
Standard Deviation	56.3%
Apache HBase - Seq Write - 32 (Rows/sec)	31967
Standard Deviation	65.9%
Apache HBase - Seq Write - 32 (us - Latency)	1215
Standard Deviation	27.4%
Apache HBase - Seq Write - 64 (Rows/sec)	25743
Standard Deviation	7.9%
Apache HBase - Seq Write - 64 (us - Latency)	2489
Standard Deviation	8%
Apache HBase - Async Rand Read - 16 (Rows/sec)	96109
Standard Deviation	2.4%
Apache HBase - Async Rand Read - 16 (us - Latency)	164
Standard Deviation	1.8%
Apache HBase - Async Rand Read - 32 (Rows/sec)	87262
Standard Deviation	1.2%
Apache HBase - Async Rand Read - 32 (us - Latency)	364
Standard Deviation	1.3%
Apache HBase - Async Rand Read - 64 (Rows/sec)	58836
Standard Deviation	2.2%
Apache HBase - Async Rand Read - 64 (us - Latency)	1084
Standard Deviation	2.2%
Apache HBase - Async Rand Write - 1 (Rows/sec)	8268
Standard Deviation	4.5%
Apache HBase - Async Rand Write - 1 (us - Latency)	120
Standard Deviation	4.9%
Apache HBase - Async Rand Write - 4 (Rows/sec)	18245
Standard Deviation	9.1%
Apache HBase - Async Rand Write - 4 (us - Latency)	220
Standard Deviation	10.9%
Apache HBase - Seq Write - 128 (Rows/sec)	32761
Standard Deviation	67.8%
Apache HBase - Seq Write - 128 (us - Latency)	5210
Standard Deviation	13.4%
Apache HBase - Seq Write - 256 (Rows/sec)	20186
Standard Deviation	16.2%
Apache HBase - Seq Write - 256 (us - Latency)	12968
Standard Deviation	17.2%
Apache HBase - Async Rand Read - 128 (Rows/sec)	49703
Standard Deviation	5.4%
Apache HBase - Async Rand Read - 128 (us - Latency)	2574
Standard Deviation	5.9%
Apache HBase - Async Rand Read - 256 (Rows/sec)	23709
Standard Deviation	5.9%
Apache HBase - Async Rand Read - 256 (us - Latency)	10817
Standard Deviation	6.1%
Apache HBase - Async Rand Write - 16 (Rows/sec)	20737

	Standard Deviation	37%
Apache HBase - Async Rand Write - 16 (us - Latency)		835
	Standard Deviation	24.8%
Apache HBase - Async Rand Write - 32 (Rows/sec)		17126
	Standard Deviation	14.1%
Apache HBase - Async Rand Write - 32 (us - Latency)		1898
	Standard Deviation	14.5%
Apache HBase - Async Rand Write - 64 (Rows/sec)		16890
	Standard Deviation	15.5%
Apache HBase - Async Rand Write - 64 (us - Latency)		3857
	Standard Deviation	14%
Apache HBase - Async Rand Write - 128 (Rows/sec)		17114
	Standard Deviation	2.4%
Apache HBase - Async Rand Write - 128 (us - Latency)		7468
	Standard Deviation	2.4%
Apache HBase - Async Rand Write - 256 (Rows/sec)		14490
	Standard Deviation	11.4%
Apache HBase - Async Rand Write - 256 (us - Latency)		17811
	Standard Deviation	11.9%
NeatBench - All (FPS)		14.3
	Standard Deviation	1.8%
NeatBench - CPU (FPS)		14.1
	Standard Deviation	2.3%
Natron - Spaceship (FPS)		2.5
	Standard Deviation	10.4%
Apache HTTP Server - 1 (Reqs/sec)		12976
	Standard Deviation	1.4%
Apache HTTP Server - 20 (Reqs/sec)		70419
	Standard Deviation	0.6%
Apache HTTP Server - 100 (Reqs/sec)		76517
	Standard Deviation	3%
Apache HTTP Server - 200 (Reqs/sec)		62737
	Standard Deviation	0.2%
Apache HTTP Server - 500 (Reqs/sec)		59831
	Standard Deviation	2.4%
Apache HTTP Server - 1000 (Reqs/sec)		55705
	Standard Deviation	1.9%
Appleseed - Emily (sec)		384.616483
Appleseed - Disney Material (sec)		239.608383
Appleseed - Material Tester (sec)		208.759827
Apache Siege - 250 (Transactions/sec)		70530
	Standard Deviation	1.7%
PHPBench - P.B.S (Score)		883500
	Standard Deviation	0.4%
Git - T.T.C.C.G.C (sec)		43.892
	Standard Deviation	0.1%
Mlpack Benchmark - scikit_ica (sec)		48.03
	Standard Deviation	0.1%
Mlpack Benchmark - scikit_qda (sec)		55.96
	Standard Deviation	0%
Mlpack Benchmark - scikit_svm (sec)		17.97
	Standard Deviation	0.4%
Mlpack Benchmark - scikit_linearridgeregression (sec)		2.08

Standard Deviation 0.3%
PHP Micro Benchmarks - Zend bench (sec) 0.257
Standard Deviation 2.4%
PHP Micro Benchmarks - Zend micro_bench (sec) 1.297
Standard Deviation 0.4%
Scikit-Learn (sec) 8.391
Standard Deviation 0.3%
Sunflow Rendering System - G.I.I.S (sec) 0.842
Standard Deviation 2.5%
InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec) 1489261
Standard Deviation 0.3%
InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec) 1945344
Standard Deviation 0.7%
InfluxDB - 1024 - 10000 - 2,5000,1 - 10000 (val/sec) 1962812
Standard Deviation 1.2%

LevelDB 1.22

Benchmark: Hot Read



LevelDB 1.22

Benchmark: Fill Sync



LevelDB 1.22

Benchmark: Fill Sync



LevelDB 1.22

Benchmark: Overwrite



LevelDB 1.22

Benchmark: Overwrite



LevelDB 1.22

Benchmark: Random Fill



LevelDB 1.22

Benchmark: Random Fill



LevelDB 1.22

Benchmark: Random Read



LevelDB 1.22

Benchmark: Seek Random



LevelDB 1.22

Benchmark: Random Delete



LevelDB 1.22

Benchmark: Sequential Fill



LevelDB 1.22

Benchmark: Sequential Fill



SQLite 3.30.1

Threads / Copies: 1



SQLite 3.30.1

Threads / Copies: 8



SQLite 3.30.1

Threads / Copies: 32

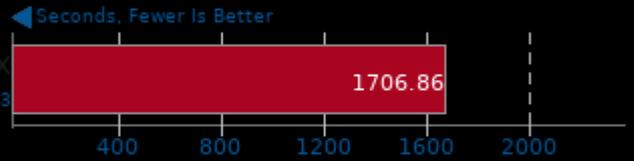


SQLite 3.30.1

Threads / Copies: 64

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2.79, N = 3



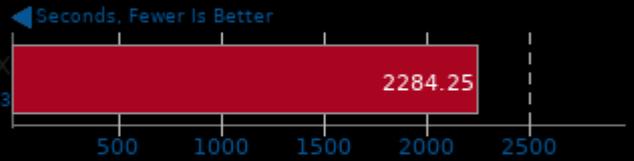
1, (CC) gcc options: -O2 -lz -lm

SQLite 3.30.1

Threads / Copies: 128

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 4.75, N = 3



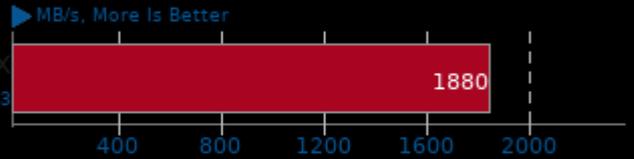
1, (CC) gcc options: -O2 -lz -lm

Flexible IO Tester 3.25

Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 15.84, N = 3



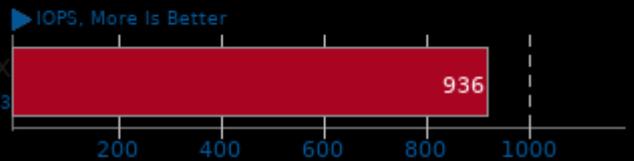
1, (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

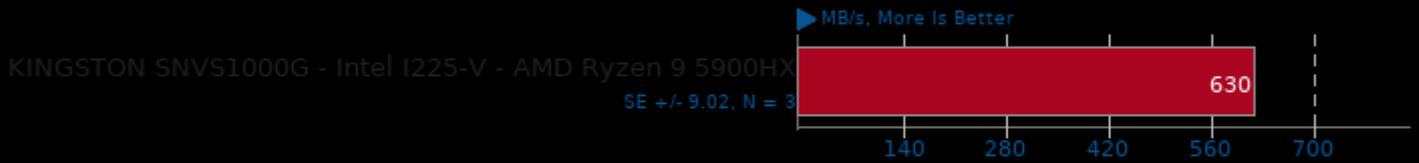
SE +/- 7.67, N = 3



1, (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

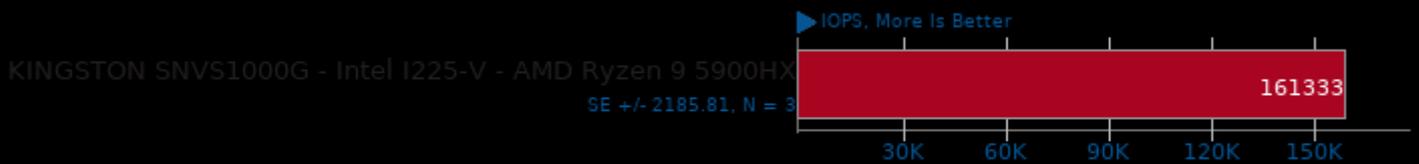
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

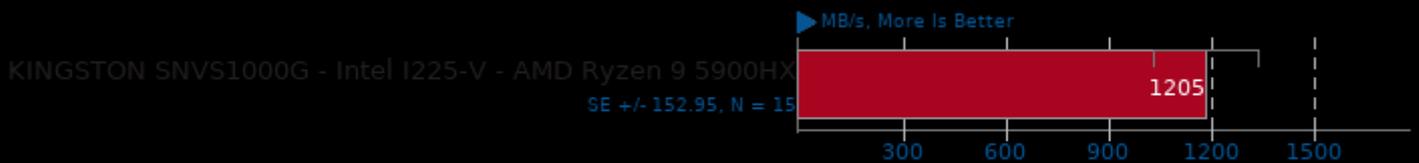
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

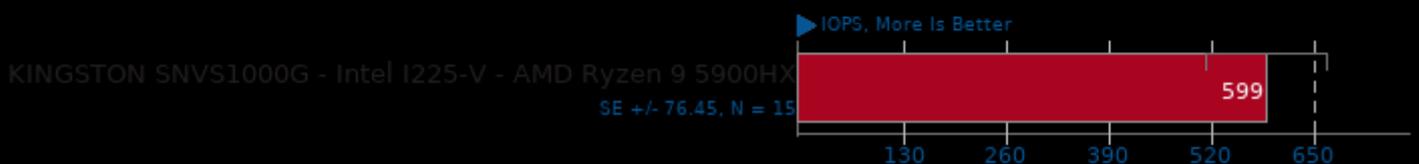
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

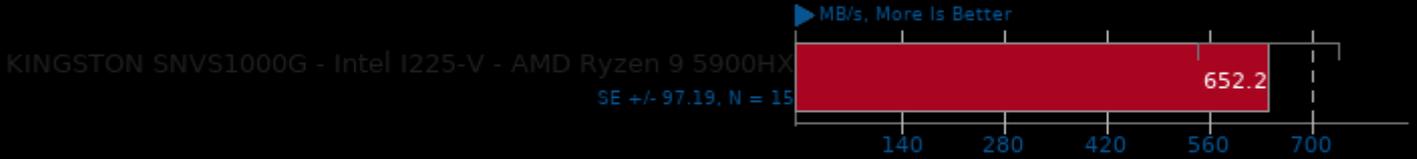
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

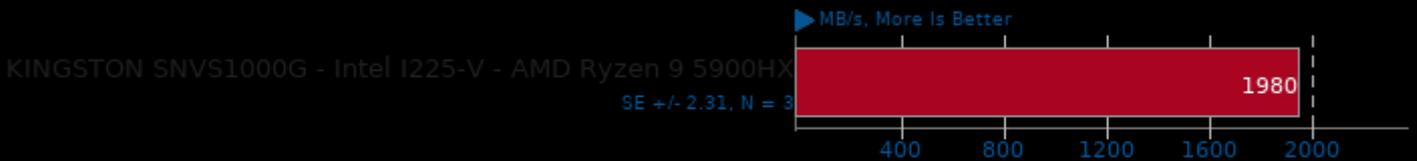
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

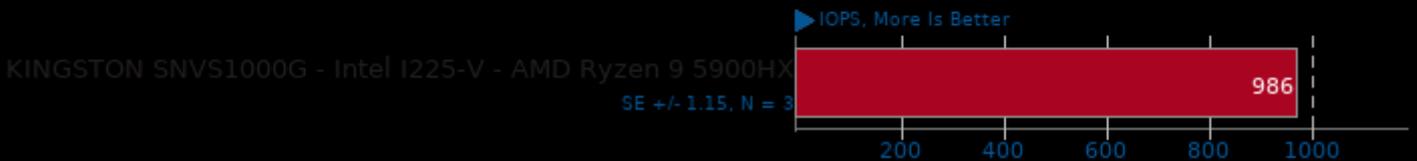
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

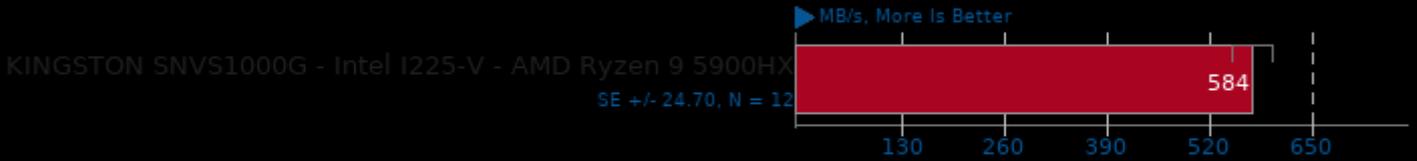
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

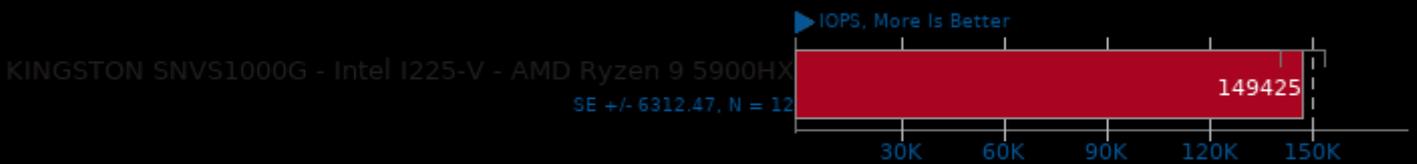
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

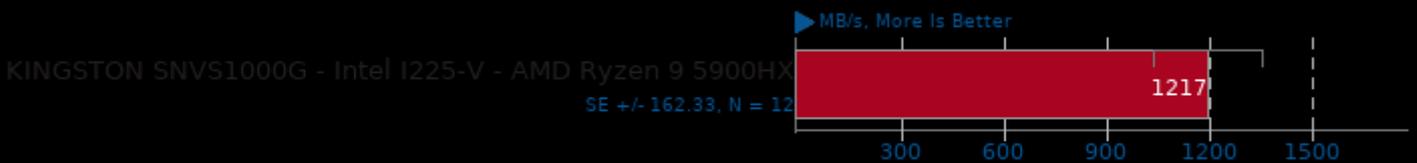
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

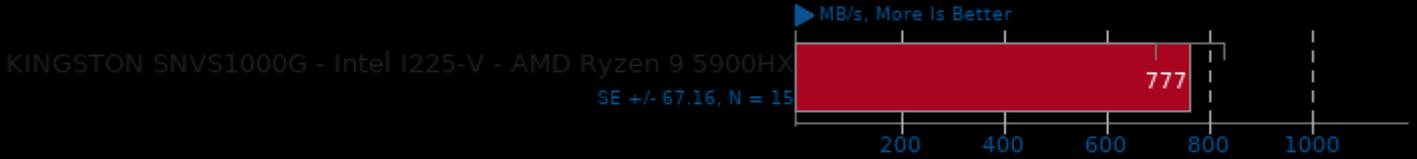
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -l -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

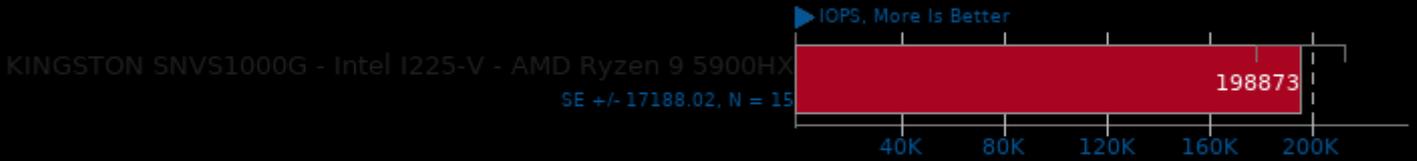
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

Flexible IO Tester 3.25

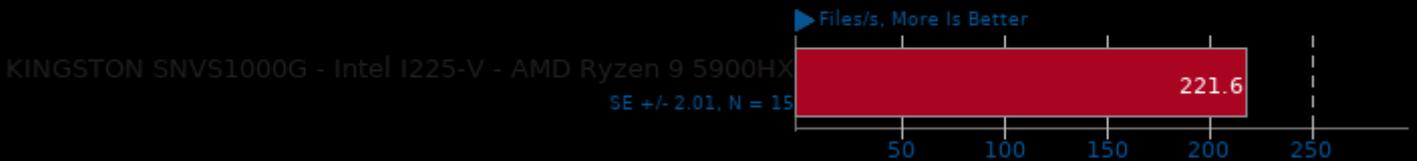
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -lcurl -lssl -lcrypto -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE

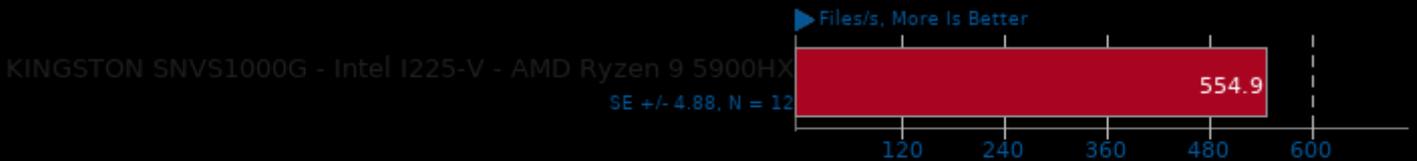
FS-Mark 3.3

Test: 1000 Files, 1MB Size



FS-Mark 3.3

Test: 5000 Files, 1MB Size, 4 Threads



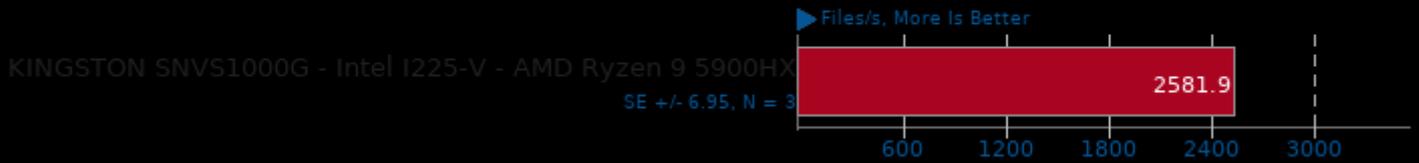
FS-Mark 3.3

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



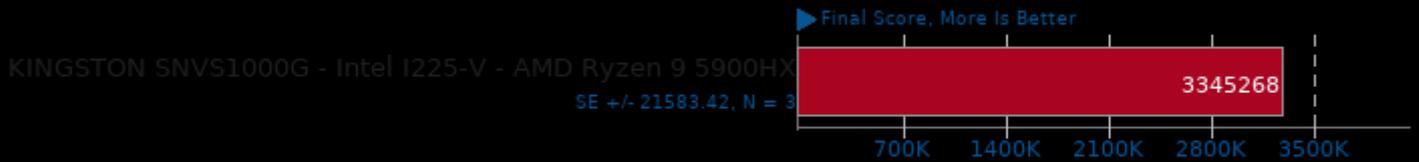
FS-Mark 3.3

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



BlogBench 1.1

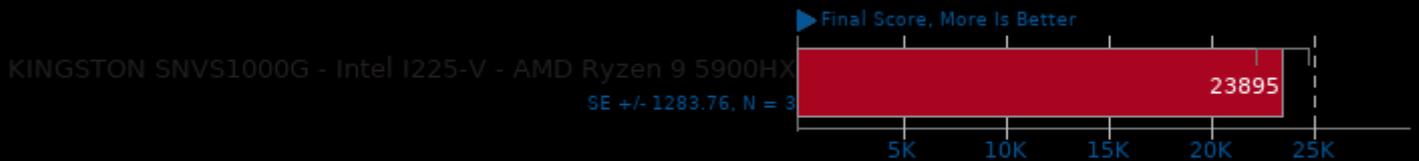
Test: Read



1. (CC) gcc options: -O2

BlogBench 1.1

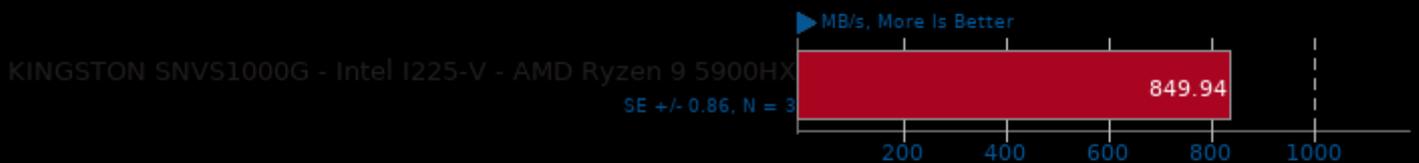
Test: Write



1. (CC) gcc options: -O2

Dbench 4.0

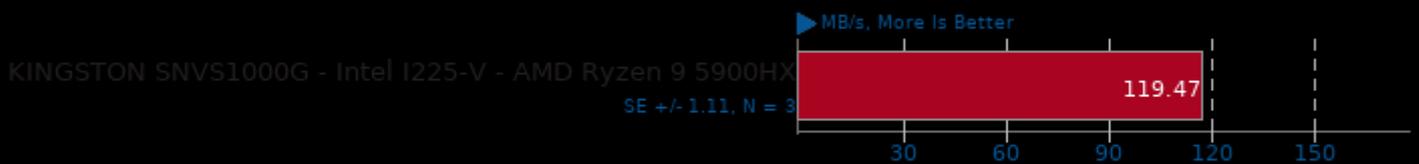
12 Clients



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

Dbench 4.0

1 Clients

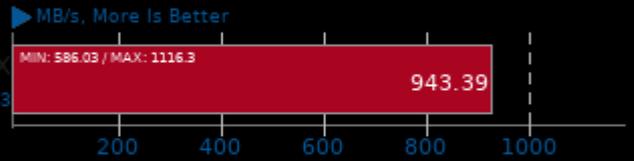


1. (CC) gcc options: -popt -O2

IOR 3.3.0

Block Size: 2MB - Disk Target: Default Test Directory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.99, N = 3

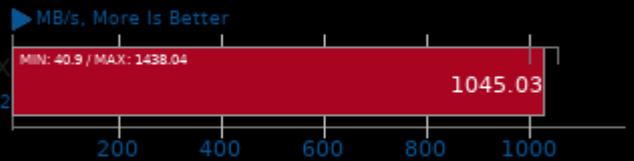


1. (CC) gcc options: -O2 -lm -lmpi

IOR 3.3.0

Block Size: 4MB - Disk Target: Default Test Directory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 29.30, N = 12

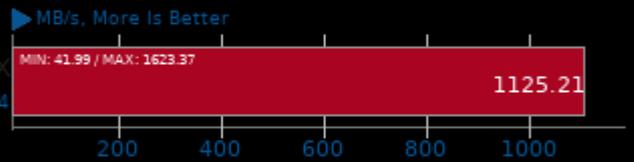


1. (CC) gcc options: -O2 -lm -lmpi

IOR 3.3.0

Block Size: 8MB - Disk Target: Default Test Directory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 16.47, N = 14

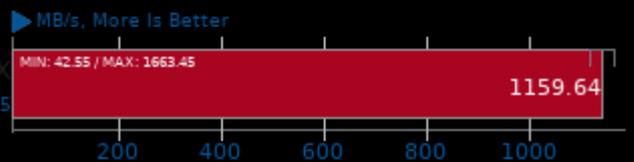


1. (CC) gcc options: -O2 -lm -lmpi

IOR 3.3.0

Block Size: 16MB - Disk Target: Default Test Directory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 23.45, N = 15



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

IOR 3.3.0

Block Size: 32MB - Disk Target: Default Test Directory

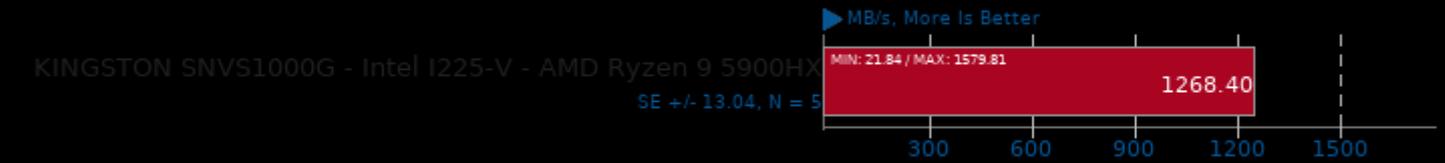
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 13.23, N = 4



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

IOR 3.3.0

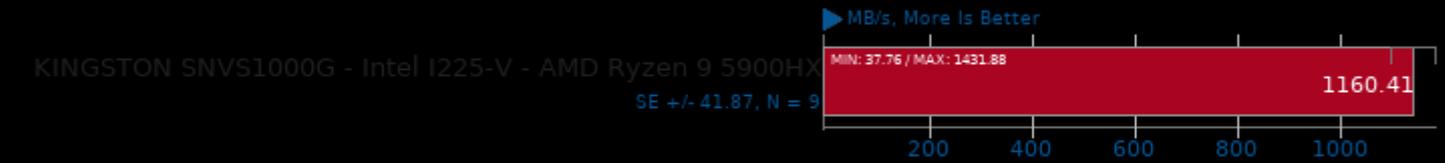
Block Size: 64MB - Disk Target: Default Test Directory



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

IOR 3.3.0

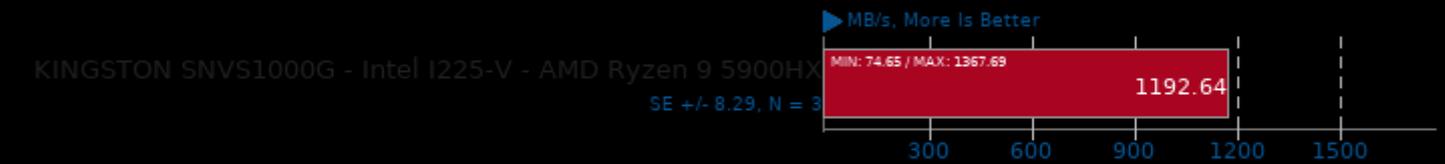
Block Size: 256MB - Disk Target: Default Test Directory



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

IOR 3.3.0

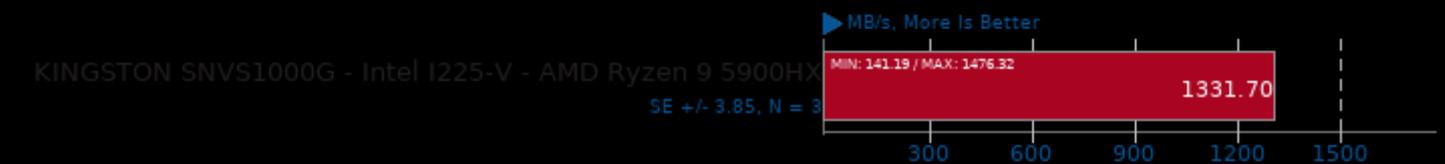
Block Size: 512MB - Disk Target: Default Test Directory



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

PostMark 1.51

Disk Transaction Performance



1. (CC) gcc options: -O3

C-Blosc 2.0

Compressor: blosclz

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 39.07, N = 3



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

High Performance Conjugate Gradient 3.1

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00377, N = 3



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

NAS Parallel Benchmarks 3.4

Test / Class: BT.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 31.40, N = 3



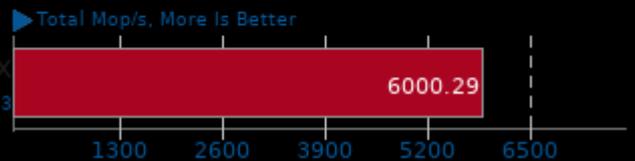
1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: CG.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 8.59, N = 3



1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: EP.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.09, N = 3



1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: EP.D

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.84, N = 3



1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: FT.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 37.59, N = 3



1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: IS.D

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.43, N = 3



1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: LU.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 39.62, N = 3



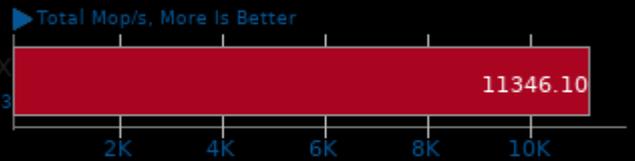
1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: MG.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 8.07, N = 3



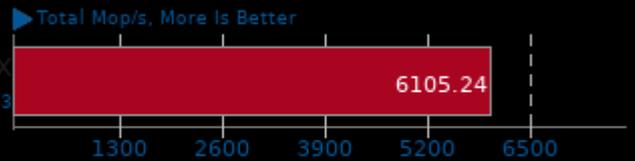
1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: SP.B

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2.08, N = 3



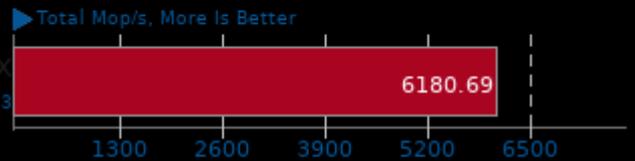
1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

NAS Parallel Benchmarks 3.4

Test / Class: SP.C

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 6.85, N = 3



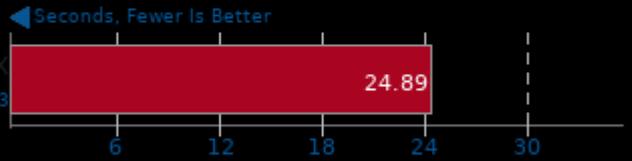
1. (F9X) gfortran options: -O3 -march=native -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -levent_core -levent_pthreads -lm -lz
2. Open MPI 4.1.0

Rodinia 2.4

Test: OpenMP LavaMD

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.19, N = 3



Rodinia 2.4

Test: OpenMP CFD Solver

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.01, N = 3

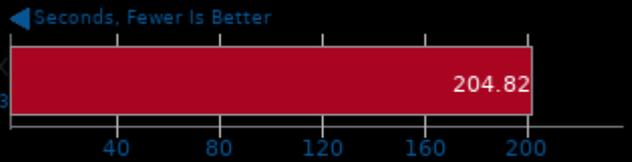


Rodinia 3.1

Test: OpenMP LavaMD

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2.36, N = 3



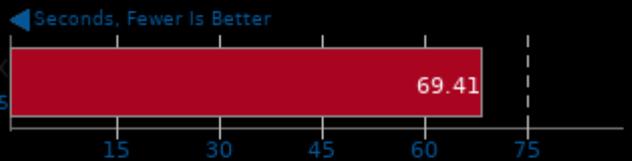
1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

Test: OpenMP HotSpot3D

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.20, N = 15



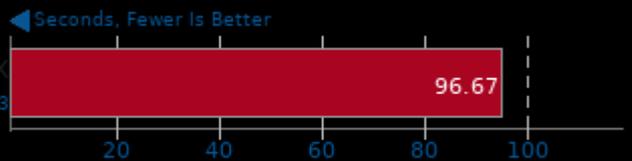
1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

Test: OpenMP Leukocyte

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.35, N = 3



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

Rodinia 3.1

Test: OpenMP CFD Solver



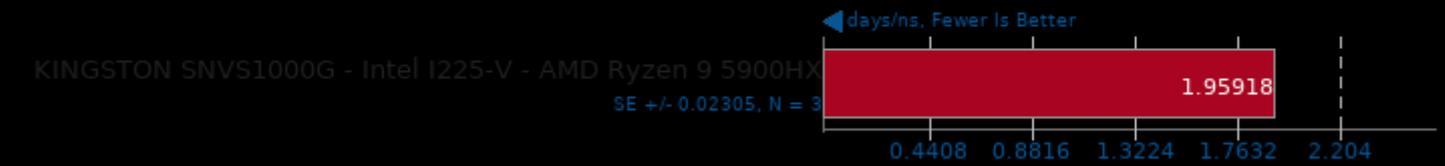
Rodinia 3.1

Test: OpenMP Streamcluster



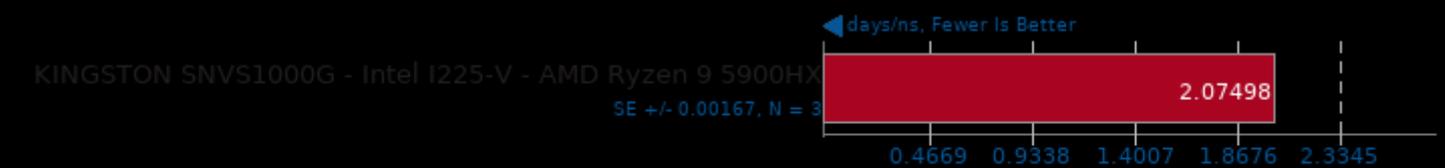
NAMD 2.13b1

ATPase Simulation - 327,506 Atoms



NAMD 2.14

ATPase Simulation - 327,506 Atoms



Algebraic Multi-Grid Benchmark 1.2

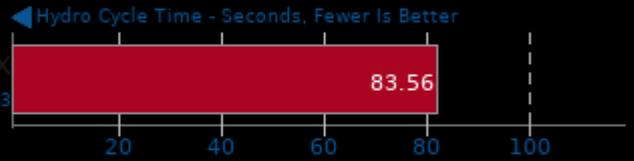


Pennant 1.0.1

Test: sedovbig

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.49, N = 3



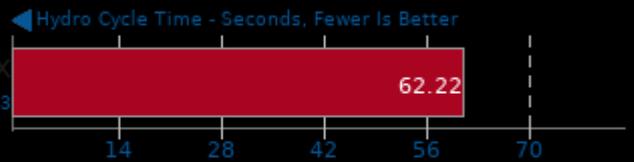
1. (CXX) g++ options: -fopenmp -lmpi_cxx -lmpi

Pennant 1.0.1

Test: leblanbig

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.06, N = 3



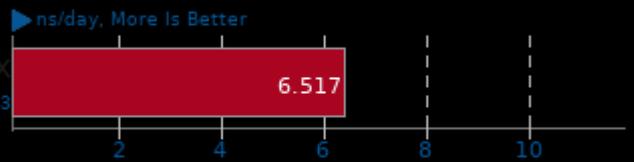
1. (CXX) g++ options: -fopenmp -lmpi_cxx -lmpi

LAMMPS Molecular Dynamics Simulator 29Oct2020

Model: 20k Atoms

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.020, N = 3



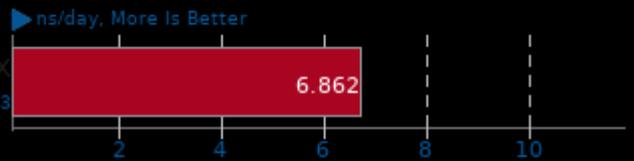
1. (CXX) g++ options: -O3 -lm

LAMMPS Molecular Dynamics Simulator 29Oct2020

Model: Rhodopsin Protein

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.015, N = 3



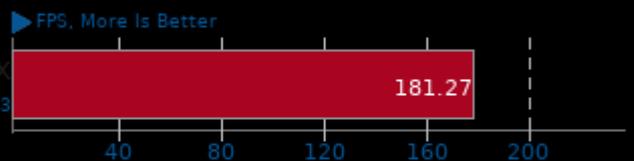
1. (CXX) g++ options: -O3 -lm

libgav1 0.16.3

Video Input: Chimera 1080p

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.19, N = 3



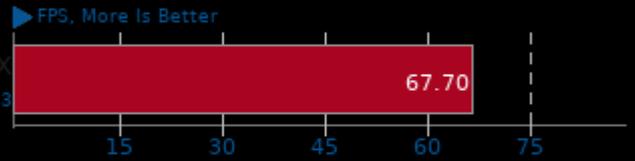
1. (CXX) g++ options: -O3 -lrt

libgav1 0.16.3

Video Input: Summer Nature 4K

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.02, N = 3



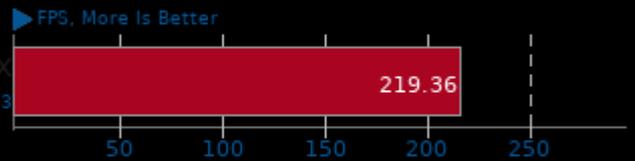
1. (CXX) g++ options: -O3 -lrt

libgav1 0.16.3

Video Input: Summer Nature 1080p

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.30, N = 3



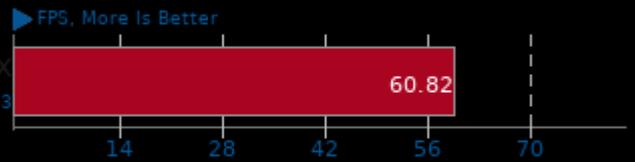
1. (CXX) g++ options: -O3 -lrt

libgav1 0.16.3

Video Input: Chimera 1080p 10-bit

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.29, N = 3



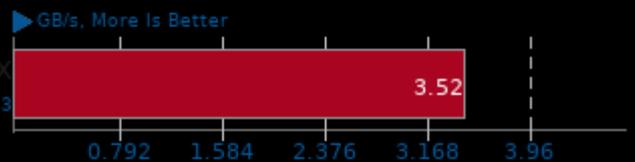
1. (CXX) g++ options: -O3 -lrt

simdjson 1.0

Throughput Test: Kostya

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.01, N = 3



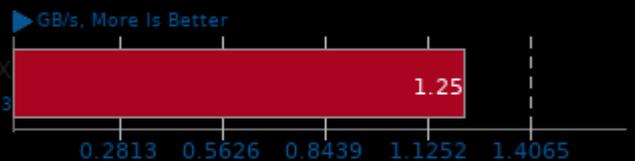
1. (CXX) g++ options: -O3

simdjson 1.0

Throughput Test: LargeRandom

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



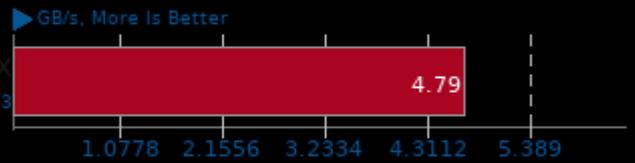
1. (CXX) g++ options: -O3

simdjson 1.0

Throughput Test: PartialTweets

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



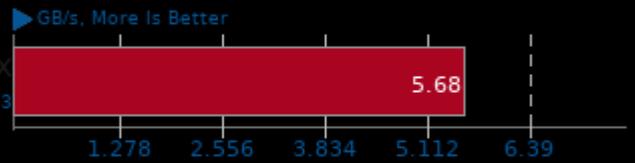
1. (CXX) g++ options: -O3

simdjson 1.0

Throughput Test: DistinctUserID

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



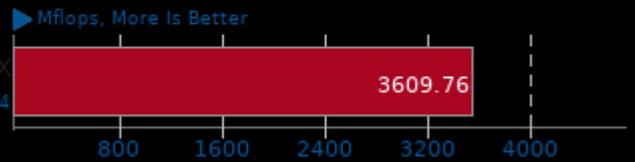
1. (CXX) g++ options: -O3

Java SciMark 2.0

Computational Test: Composite

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 17.14, N = 4

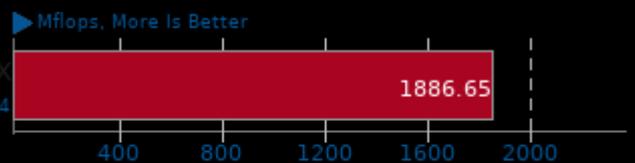


Java SciMark 2.0

Computational Test: Monte Carlo

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.53, N = 4



Java SciMark 2.0

Computational Test: Fast Fourier Transform

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 16.84, N = 4



Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



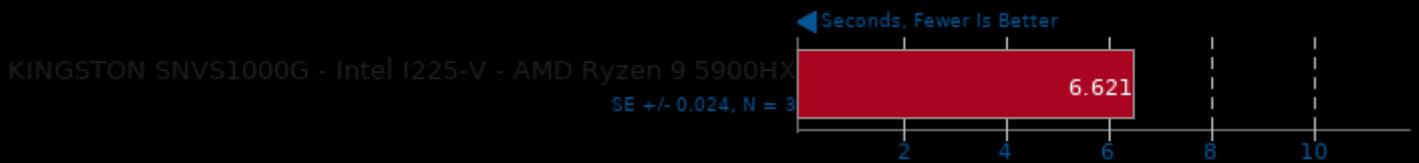
Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



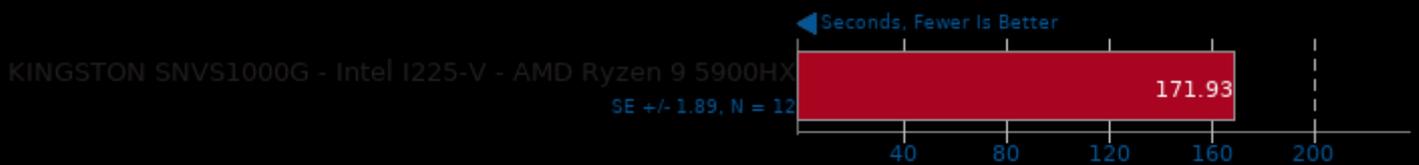
Bork File Encrypter 1.4

File Encryption Time



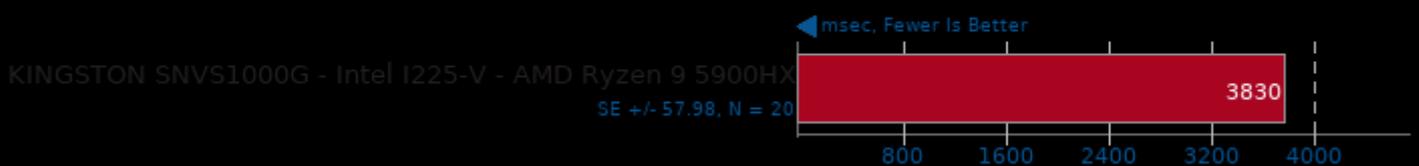
Java Gradle Build

Gradle Build: Reactor



DaCapo Benchmark 9.12-MR1

Java Test: H2

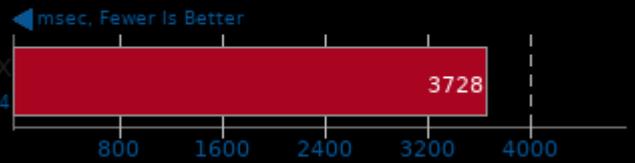


DaCapo Benchmark 9.12-MR1

Java Test: jython

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 26.38, N = 4

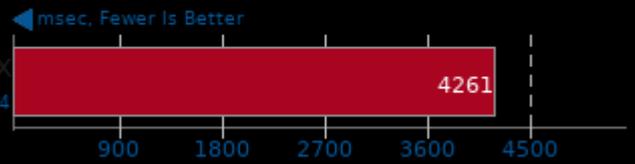


DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 41.88, N = 4

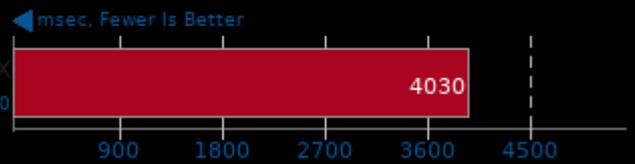


DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 39.24, N = 20

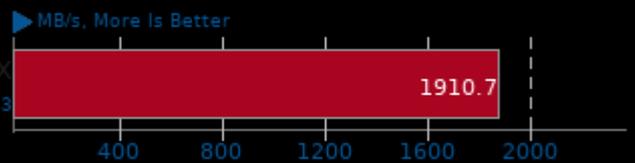


Zstd Compression 1.5.0

Compression Level: 3 - Compression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.57, N = 3



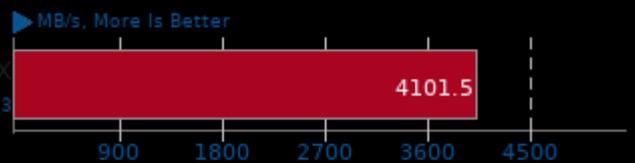
1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

Compression Level: 3 - Decompression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 11.11, N = 3



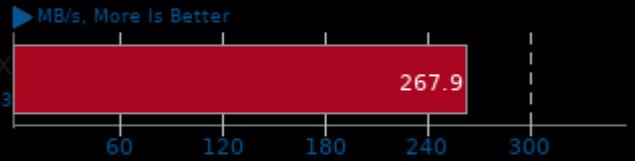
1. (CC) gcc options: -O3 -pthread -lz -lzma

Zstd Compression 1.5.0

Compression Level: 8 - Compression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.42, N = 3



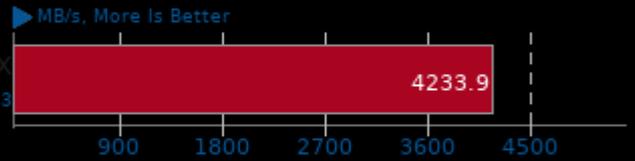
1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 8 - Decompression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 15.24, N = 3



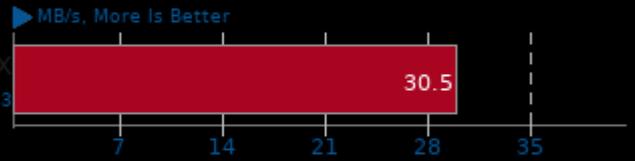
1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 19 - Compression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.29, N = 3



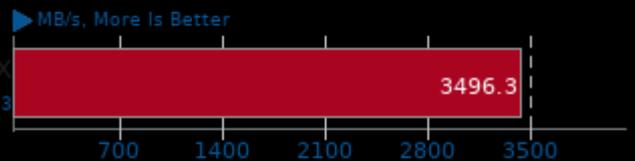
1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 19 - Decompression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 29.77, N = 3



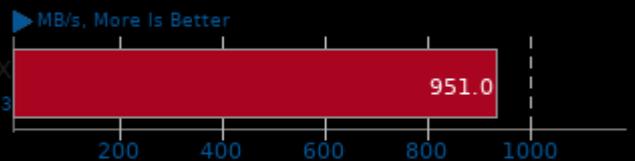
1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 3, Long Mode - Compression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 4.92, N = 3

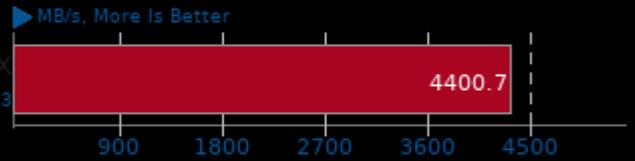


1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 3, Long Mode - Decompression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 29.70, N = 3

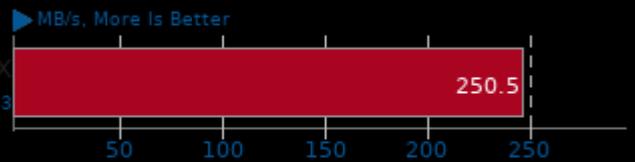


1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 8, Long Mode - Compression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.06, N = 3

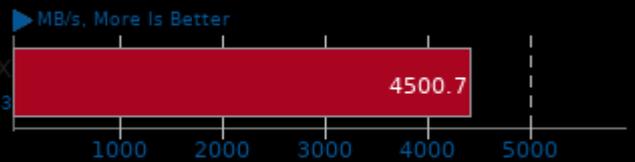


1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 8, Long Mode - Decompression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 39.63, N = 3

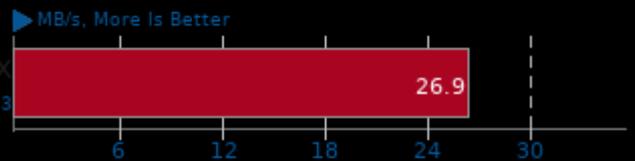


1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 19, Long Mode - Compression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.32, N = 3

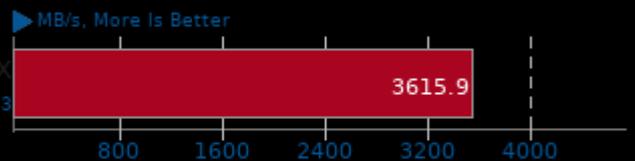


1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.5.0

Compression Level: 19, Long Mode - Decompression Speed

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 61.22, N = 3



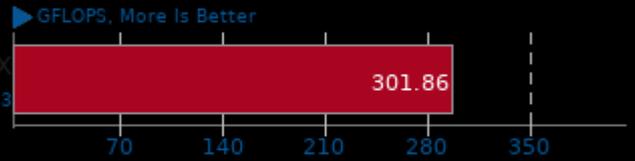
1. (CC) gcc options: -O3 -pthread -lz -llzma

ArrayFire 3.7

Test: BLAS CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.70, N = 3

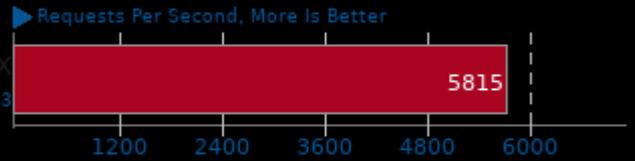


1. (CXX) g++ options: -rdynamic

Node.js Express HTTP Load Test

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 38.51, N = 3



1. Node.js
v12.22.5

LuxCoreRender 2.5

Scene: DLSC - Acceleration: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.01, N = 3

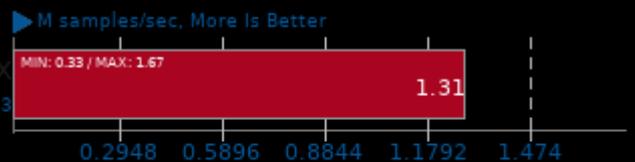


LuxCoreRender 2.5

Scene: Danish Mood - Acceleration: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.01, N = 3

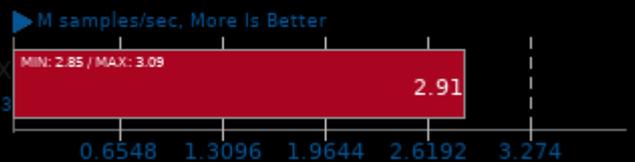


LuxCoreRender 2.5

Scene: Orange Juice - Acceleration: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.02, N = 3

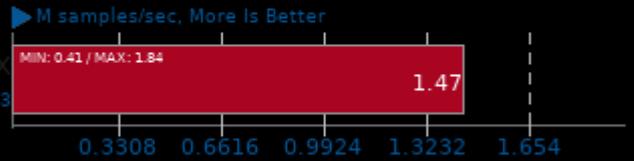


LuxCoreRender 2.5

Scene: LuxCore Benchmark - Acceleration: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.02, N = 3



LuxCoreRender 2.5

Scene: Rainbow Colors and Prism - Acceleration: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.03, N = 3

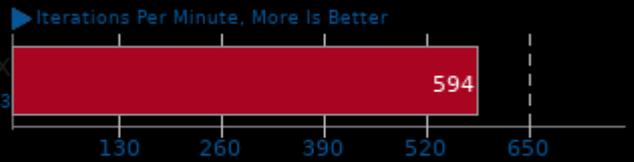


GraphicsMagick 1.3.33

Operation: Swirl

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.33, N = 3



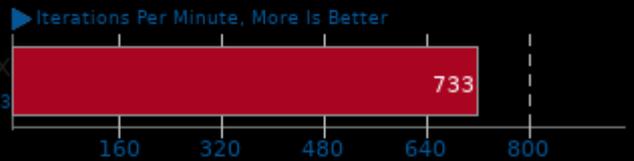
1. (CC) gcc options: -fopenmp -O2 -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

Operation: Rotate

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 4.04, N = 3



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

GraphicsMagick 1.3.33

Operation: Sharpen

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

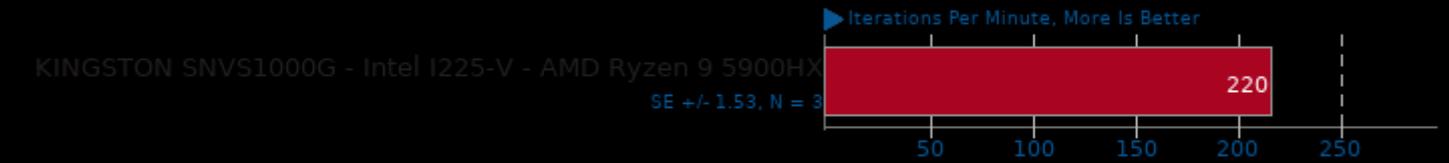
SE +/- 0.33, N = 3



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

GraphicsMagick 1.3.33

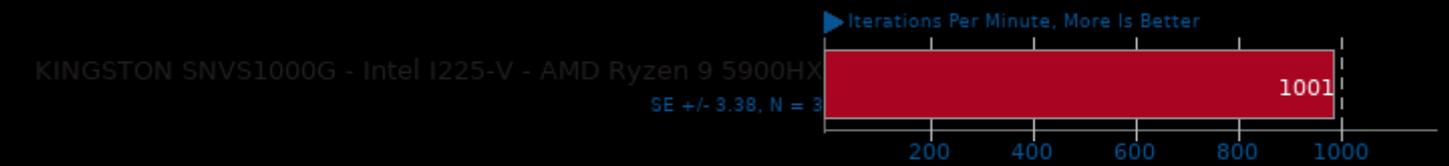
Operation: Enhanced



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

GraphicsMagick 1.3.33

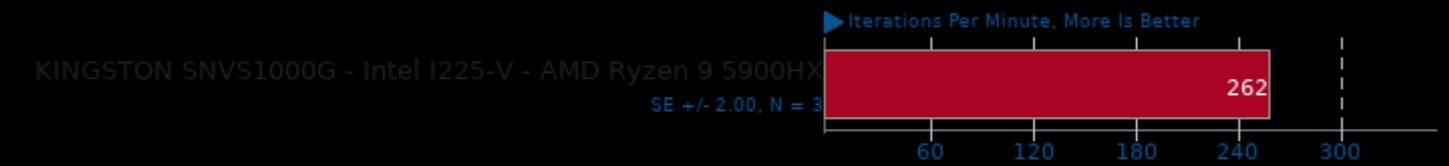
Operation: Resizing



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

GraphicsMagick 1.3.33

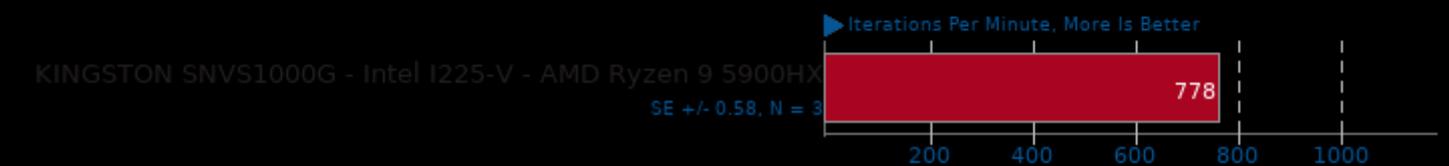
Operation: Noise-Gaussian



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

GraphicsMagick 1.3.33

Operation: HWB Color Space



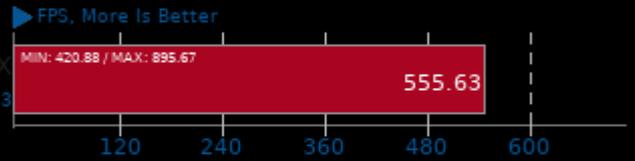
1. (CC) gcc options: -fopenmp -O2 -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread

dav1d 0.9.2

Video Input: Chimera 1080p

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.96, N = 3



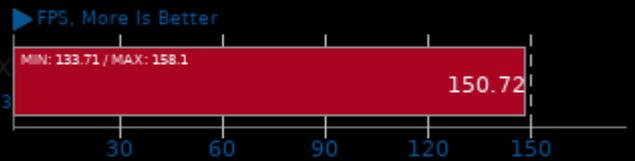
1, (CC) gcc options: -pthread -lm

dav1d 0.9.2

Video Input: Summer Nature 4K

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.05, N = 3



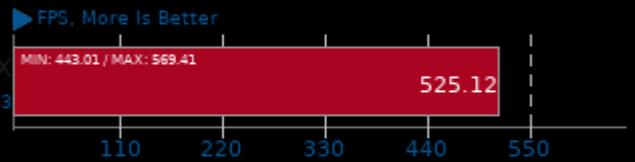
1, (CC) gcc options: -pthread -lm

dav1d 0.9.2

Video Input: Summer Nature 1080p

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.96, N = 3



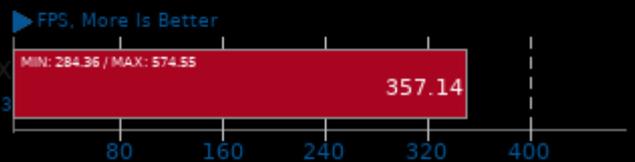
1, (CC) gcc options: -pthread -lm

dav1d 0.9.2

Video Input: Chimera 1080p 10-bit

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 0.33, N = 3



1, (CC) gcc options: -pthread -lm

OSPray 1.8.5

Demo: San Miguel - Renderer: SciVis

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

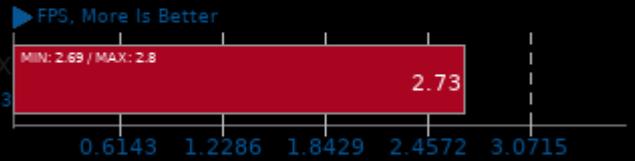
SE +/- 0.08, N = 3



OSPray 1.8.5

Demo: XFrog Forest - Renderer: SciVis

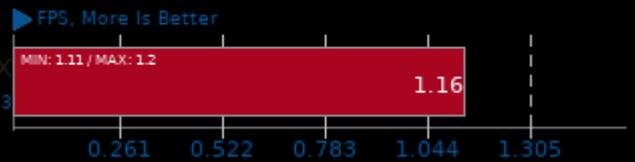
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.00, N = 3



OSPray 1.8.5

Demo: San Miguel - Renderer: Path Tracer

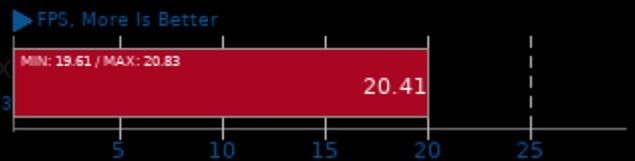
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.01, N = 3



OSPray 1.8.5

Demo: NASA Streamlines - Renderer: SciVis

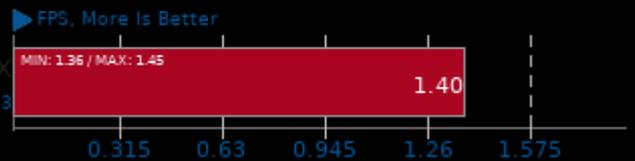
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.00, N = 3



OSPray 1.8.5

Demo: XFrog Forest - Renderer: Path Tracer

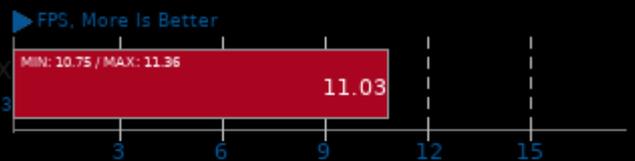
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.01, N = 3



OSPray 1.8.5

Demo: Magnetic Reconnection - Renderer: SciVis

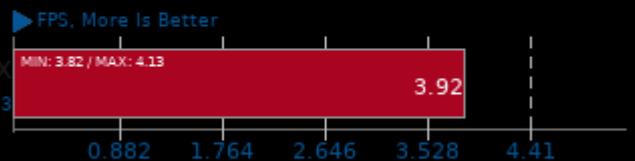
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.04, N = 3



OSPray 1.8.5

Demo: NASA Streamlines - Renderer: Path Tracer

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.02, N = 3

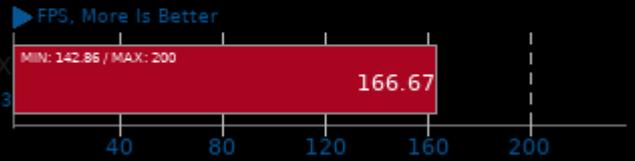


OSPray 1.8.5

Demo: Magnetic Reconnection - Renderer: Path Tracer

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3

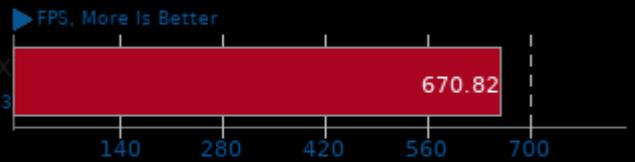


TTSIOD 3D Renderer 2.3b

Phong Rendering With Soft-Shadow Mapping

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.82, N = 3



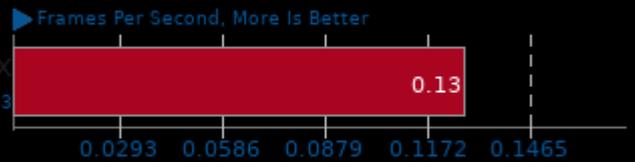
1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -fno -msse -mrecip -mfpmath=sse -msse2 -mssse3 -ISDL -fopenmp -fwhole-pr

AOM AV1 3.2

Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



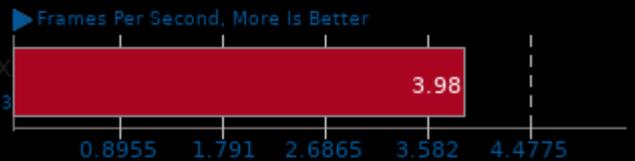
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.2

Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



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

AOM AV1 3.2

Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

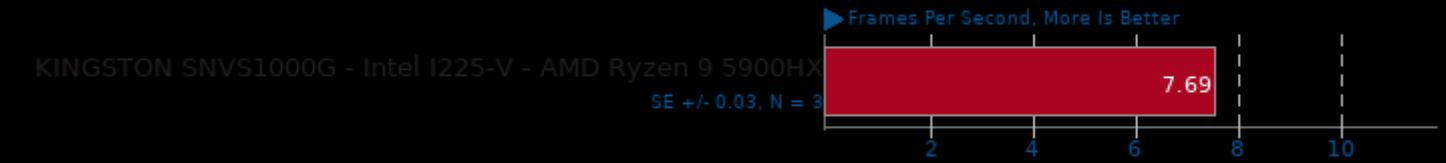
SE +/- 0.04, N = 3



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

AOM AV1 3.2

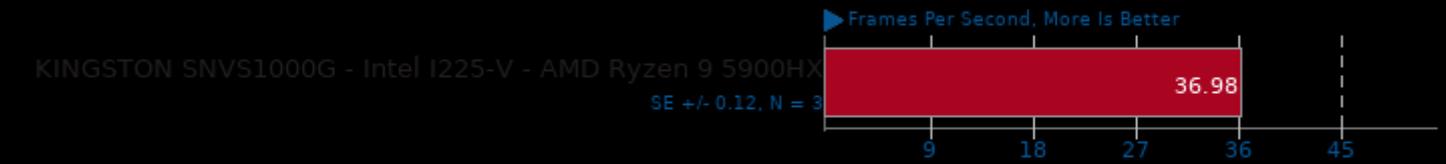
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



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

AOM AV1 3.2

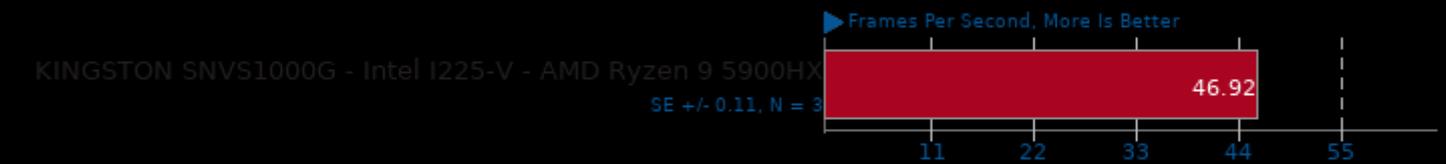
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

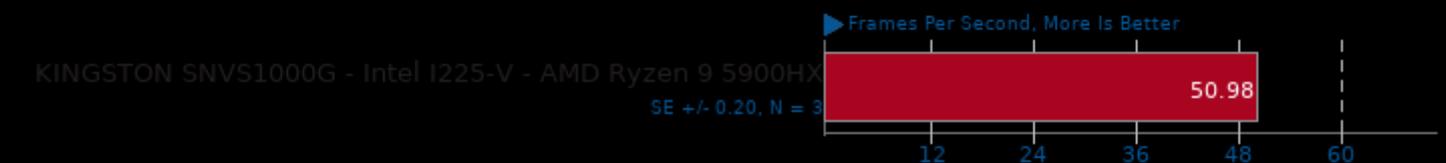
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

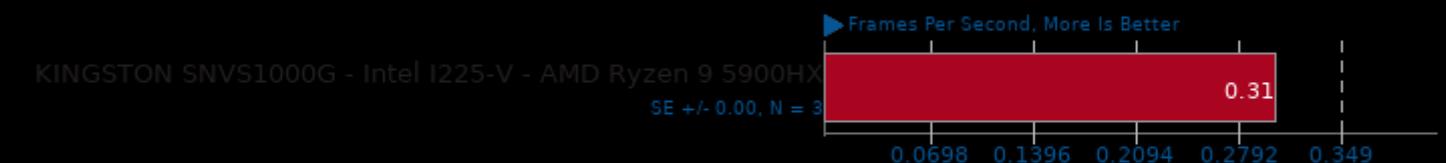
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.2

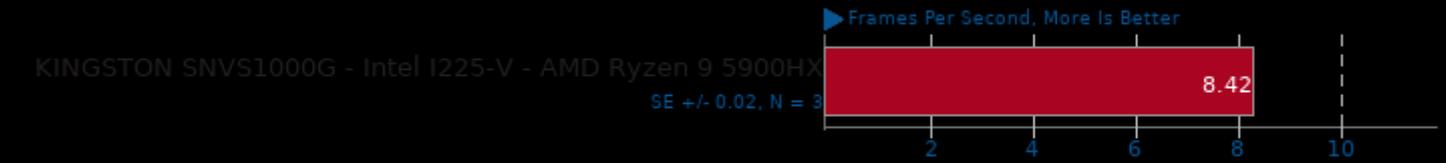
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.2

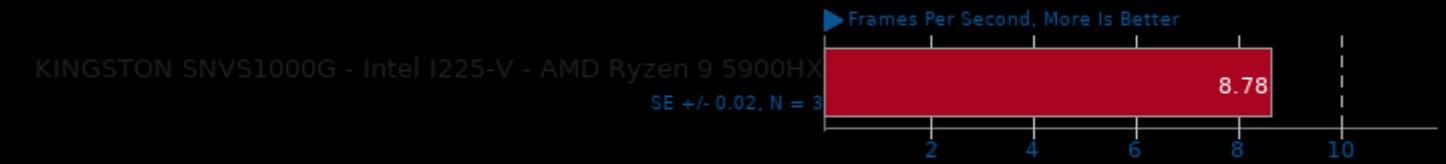
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.2

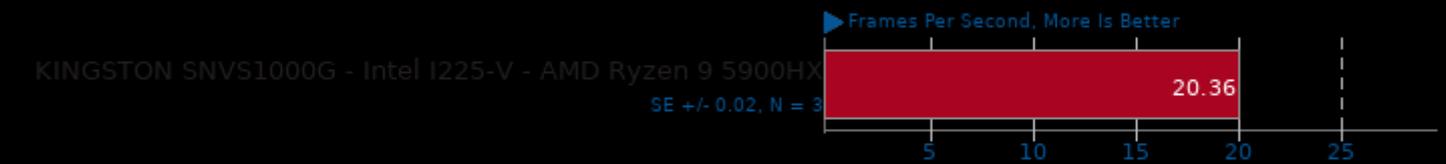
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.2

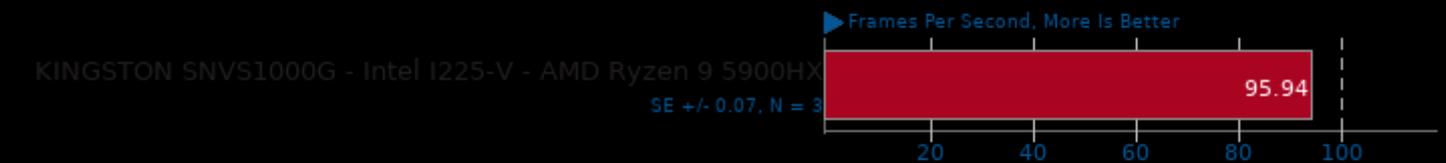
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



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

AOM AV1 3.2

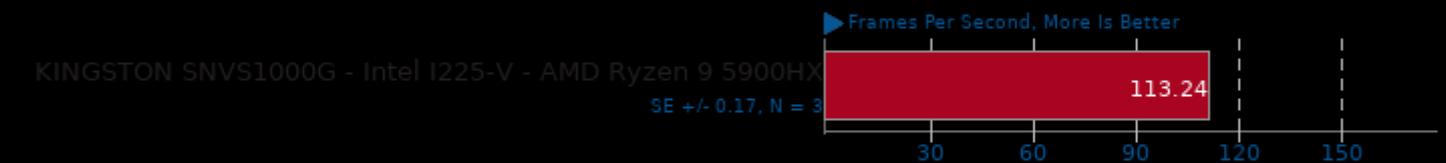
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.2

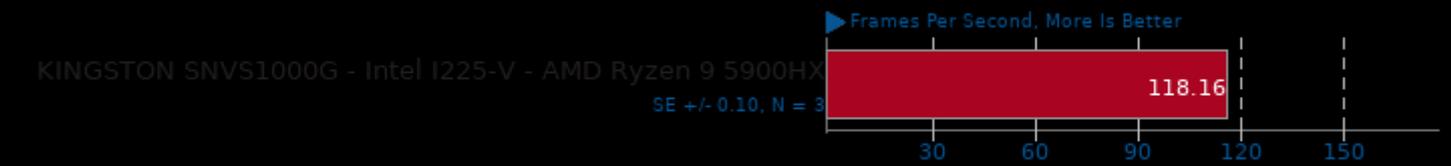
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



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

AOM AV1 3.2

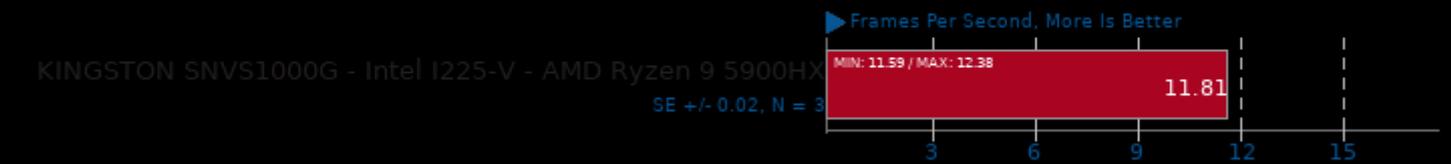
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p



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

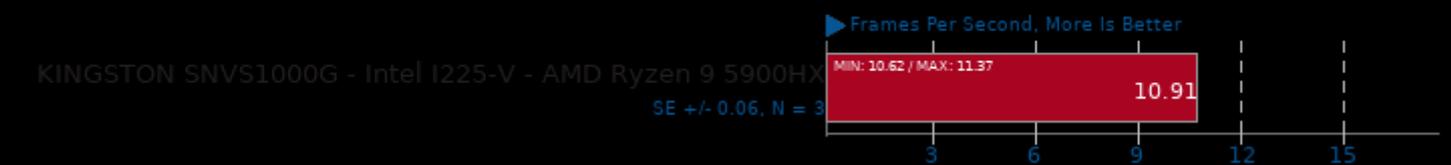
Embree 3.13

Binary: Pathtracer - Model: Crown



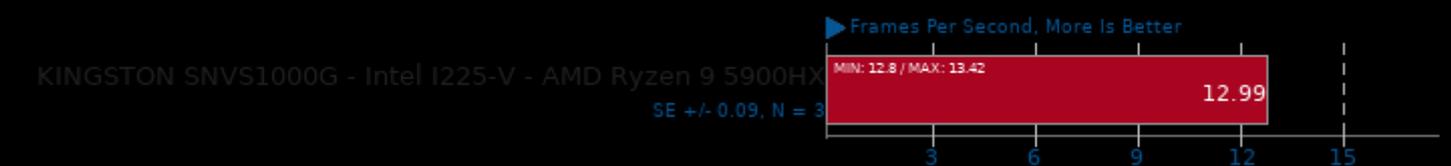
Embree 3.13

Binary: Pathtracer ISPC - Model: Crown



Embree 3.13

Binary: Pathtracer - Model: Asian Dragon



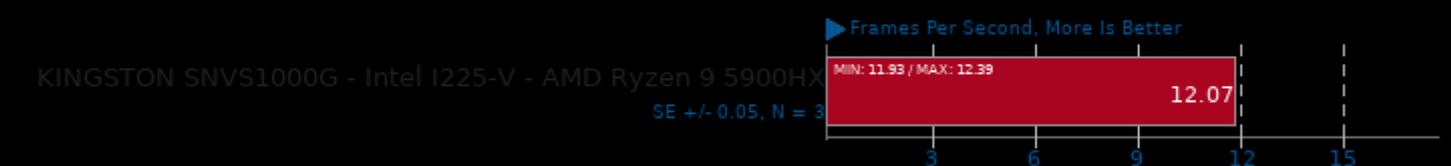
Embree 3.13

Binary: Pathtracer - Model: Asian Dragon Obj



Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon



Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon Obj

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.07, N = 3



Kvazaar 2.1

Video Input: Bosphorus 4K - Video Preset: Slow

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.02, N = 3



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

Kvazaar 2.1

Video Input: Bosphorus 4K - Video Preset: Medium

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.04, N = 3



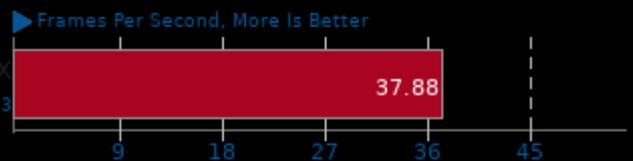
1. (CC) gcc options: -pthread -free-vectorize -fvisibility=hidden -O2 -lthread -lm -lrt

Kvazaar 2.1

Video Input: Bosphorus 1080p - Video Preset: Slow

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.06, N = 3



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

Kvazaar 2.1

Video Input: Bosphorus 1080p - Video Preset: Medium

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

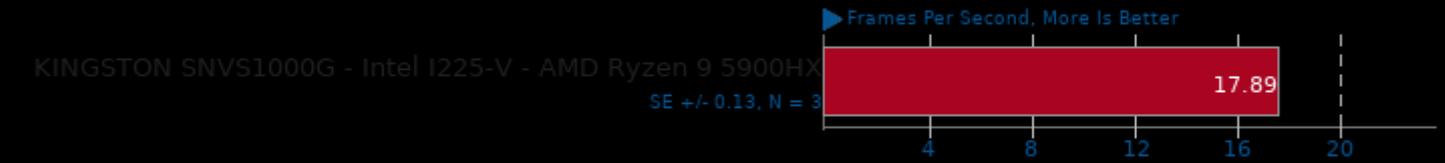
SE +/- 0.11, N = 3



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

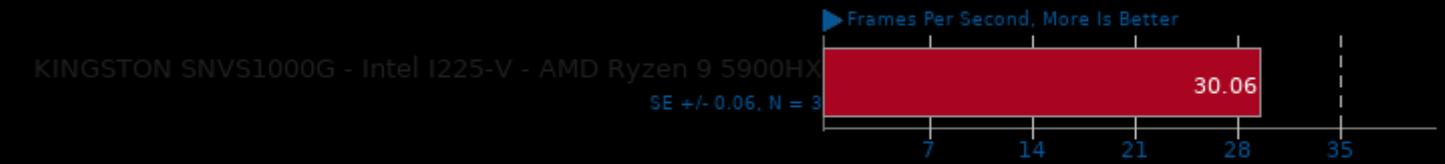
Kvazaar 2.1

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



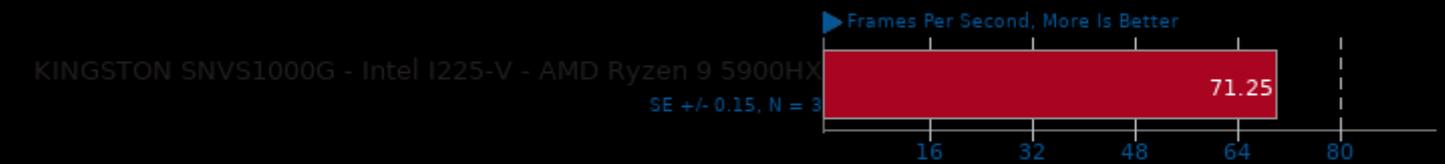
Kvazaar 2.1

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



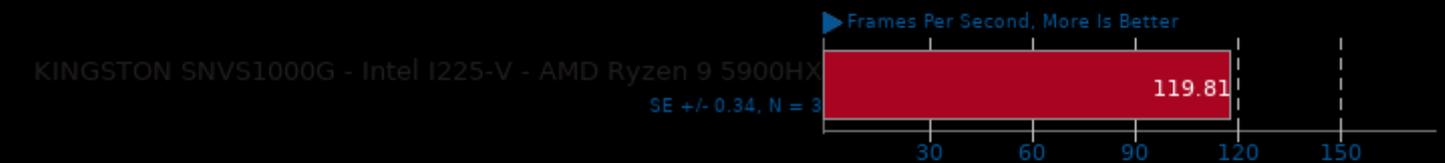
Kvazaar 2.1

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



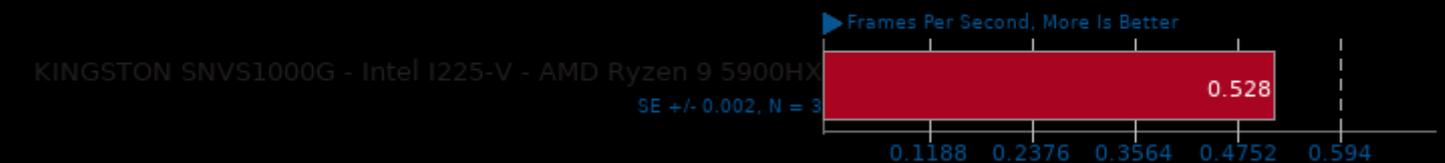
Kvazaar 2.1

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



rav1e 0.4

Speed: 1

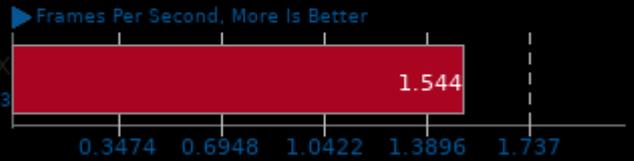


rav1e 0.4

Speed: 5

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.002, N = 3



rav1e 0.4

Speed: 6

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.005, N = 3



rav1e 0.4

Speed: 10

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.017, N = 3

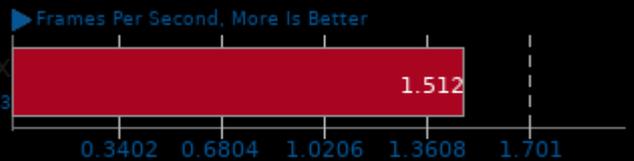


SVT-AV1 0.8.7

Encoder Mode: Preset 4 - Input: Bosphorus 4K

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.002, N = 3



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

SVT-AV1 0.8.7

Encoder Mode: Preset 8 - Input: Bosphorus 4K

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

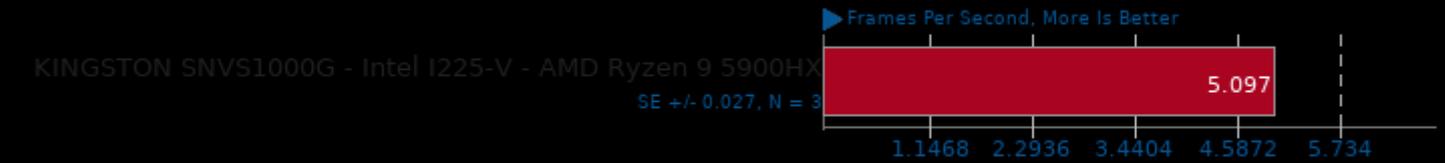
SE +/- 0.03, N = 3



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

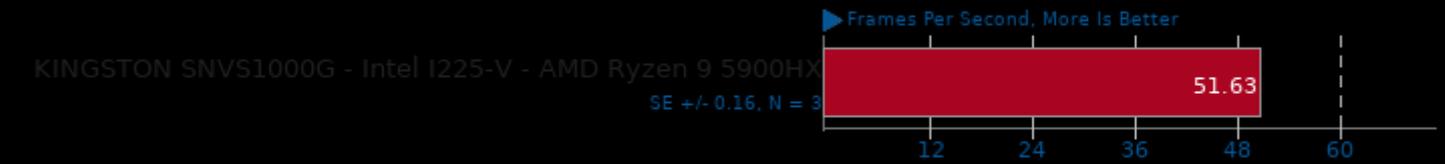
SVT-AV1 0.8.7

Encoder Mode: Preset 4 - Input: Bosphorus 1080p



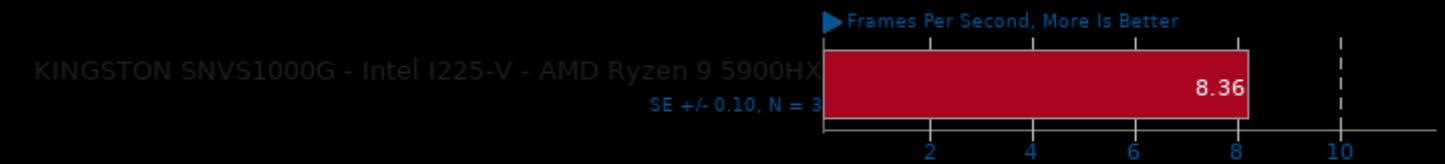
SVT-AV1 0.8.7

Encoder Mode: Preset 8 - Input: Bosphorus 1080p



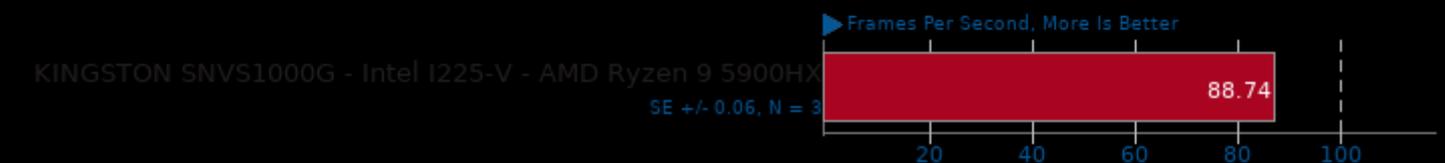
SVT-HEVC 1.5.0

Tuning: 1 - Input: Bosphorus 1080p



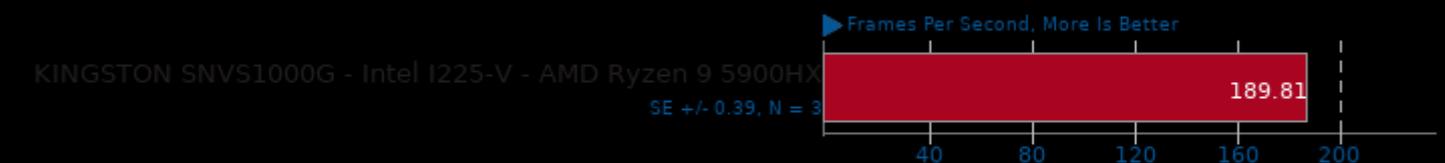
SVT-HEVC 1.5.0

Tuning: 7 - Input: Bosphorus 1080p



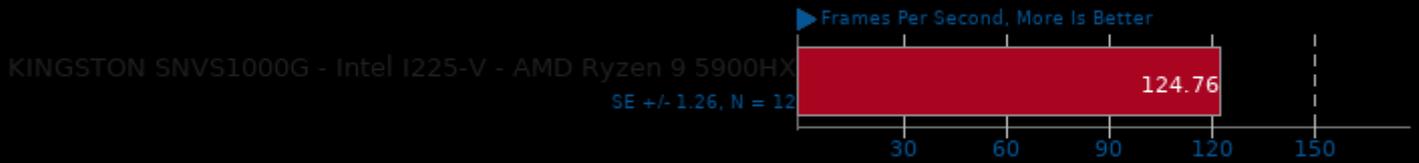
SVT-HEVC 1.5.0

Tuning: 10 - Input: Bosphorus 1080p



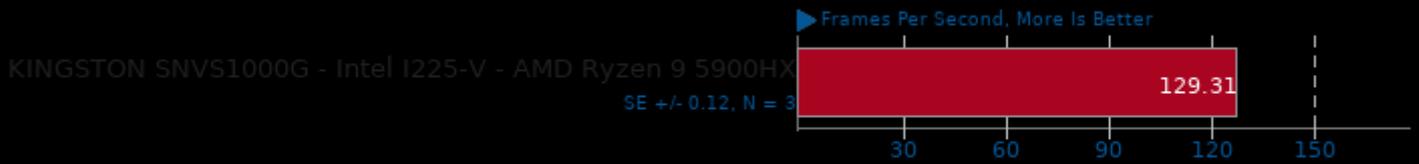
SVT-VP9 0.3

Tuning: VMAF Optimized - Input: Bosphorus 1080p



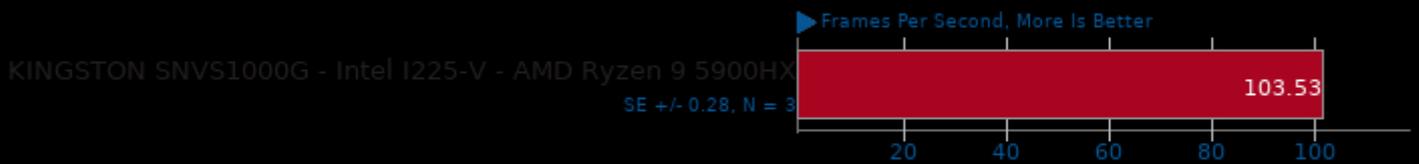
SVT-VP9 0.3

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



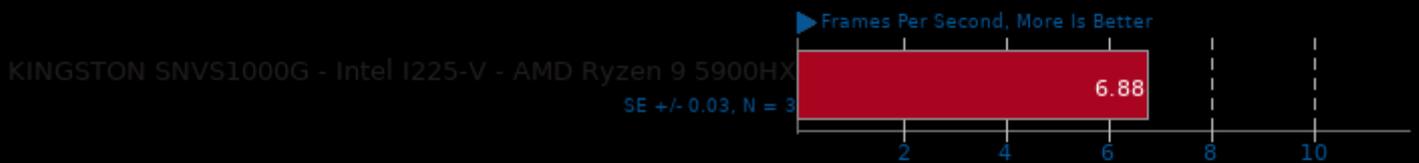
SVT-VP9 0.3

Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



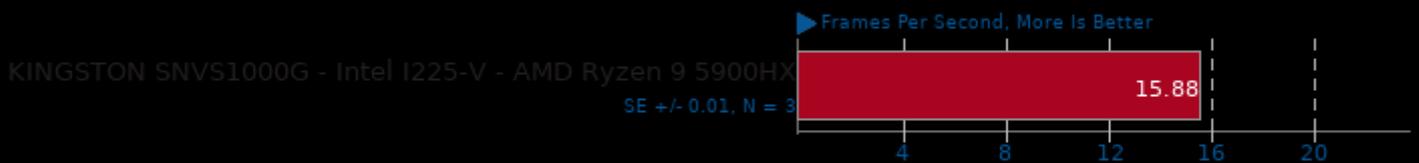
VP9 libvpx Encoding 1.10.0

Speed: Speed 0 - Input: Bosphorus 4K



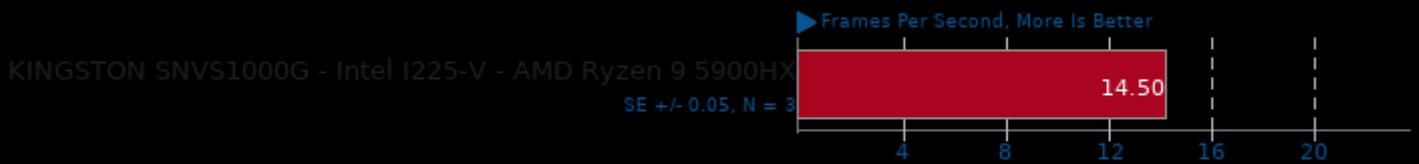
VP9 libvpx Encoding 1.10.0

Speed: Speed 5 - Input: Bosphorus 4K



VP9 libvpx Encoding 1.10.0

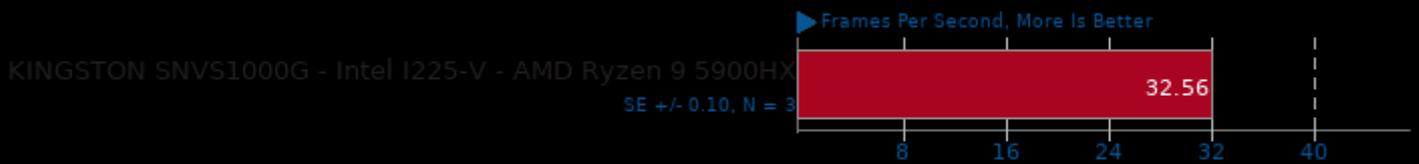
Speed: Speed 0 - Input: Bosphorus 1080p



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

VP9 libvpx Encoding 1.10.0

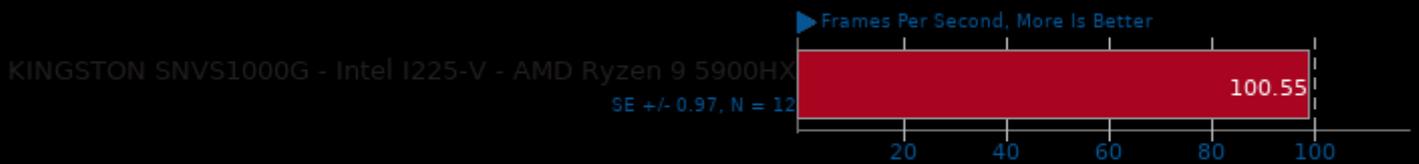
Speed: Speed 5 - Input: Bosphorus 1080p



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

x264 2018-09-25

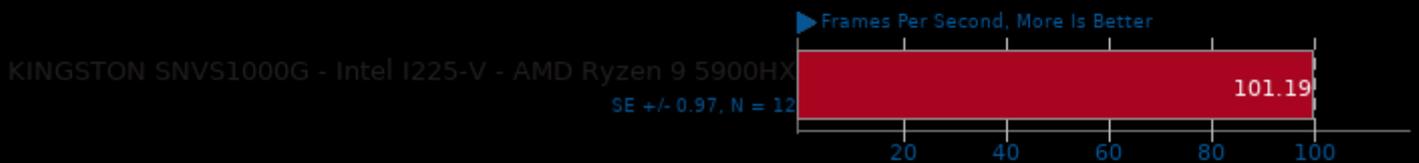
H.264 Video Encoding



1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

x264 2019-12-17

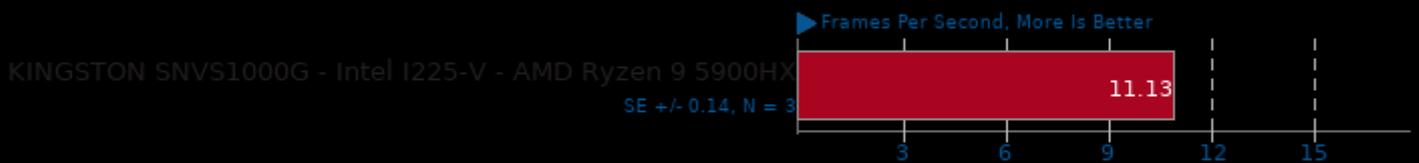
H.264 Video Encoding



1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

x265 3.4

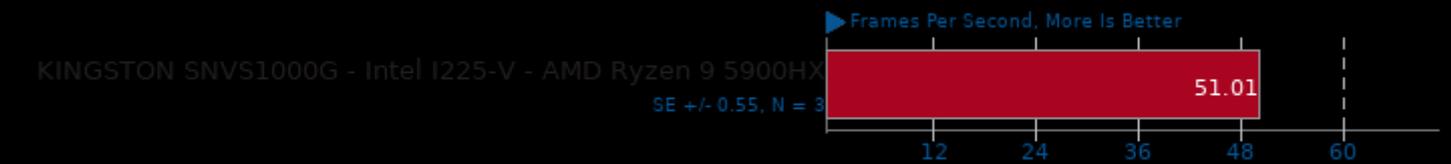
Video Input: Bosphorus 4K



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

x265 3.4

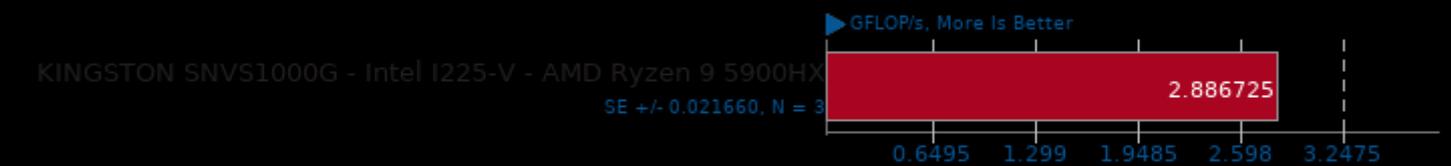
Video Input: Bosphorus 1080p



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

ACES DGEMM 1.0

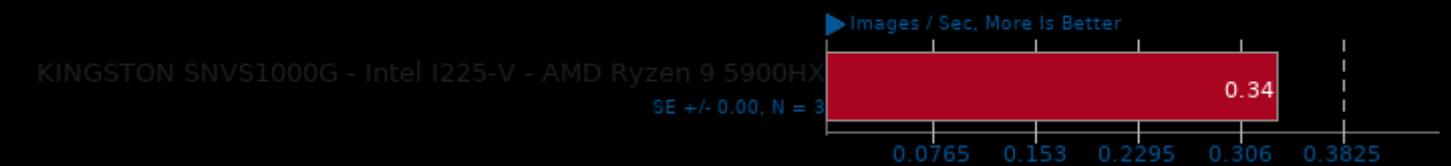
Sustained Floating-Point Rate



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

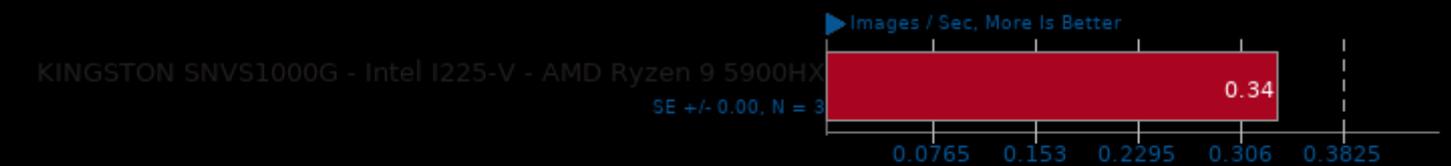
Intel Open Image Denoise 1.4.0

Run: RT.hdr_alb_nrm.3840x2160



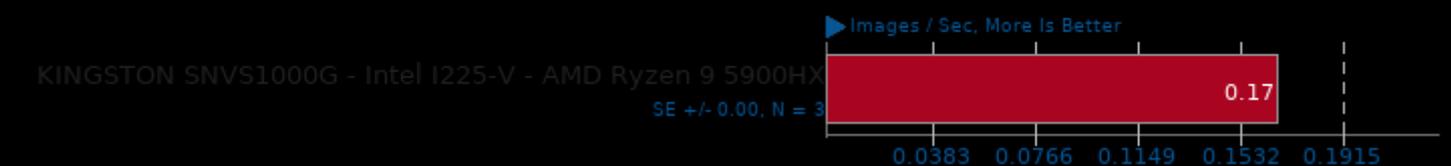
Intel Open Image Denoise 1.4.0

Run: RT.ldr_alb_nrm.3840x2160



Intel Open Image Denoise 1.4.0

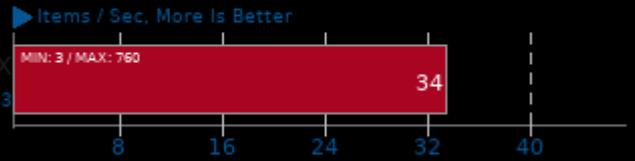
Run: RTLighmap.hdr.4096x4096



OpenVKL 1.0

Benchmark: vklBenchmark ISPC

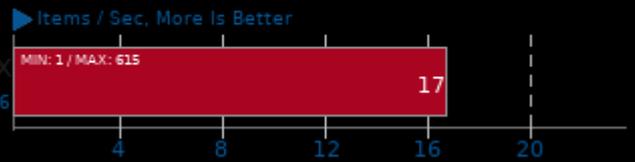
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.00, N = 3



OpenVKL 1.0

Benchmark: vklBenchmark Scalar

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.17, N = 6



Coremark 1.0

CoreMark Size 666 - Iterations Per Second

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 1808.67, N = 3

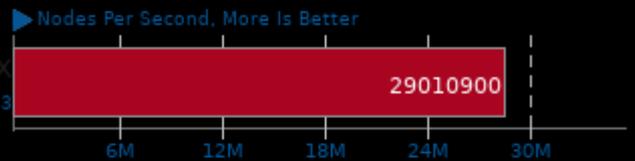


1. (GCC) gcc options: -O2 -lrt -lrt

Stockfish 9

Total Time

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 275524.07, N = 3



1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -fno

Stockfish 13

Total Time

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 204229.46, N = 10



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

asmFish 2018-07-23

1024 Hash Memory, 26 Depth

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 228934.50, N = 3

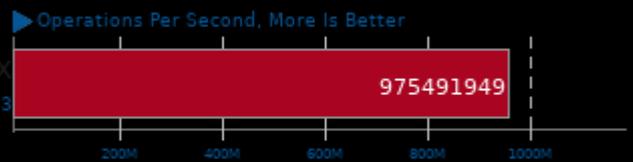


Swet 1.5.16

Average

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 12541707.76, N = 3

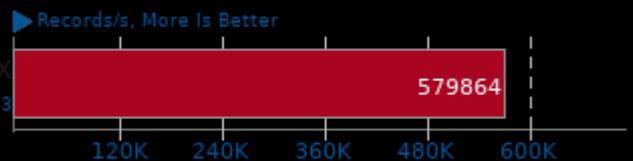


1. (CC) gcc options: -lm -pthread -lcurses -lrt

ebizzy 0.3

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 8301.89, N = 3



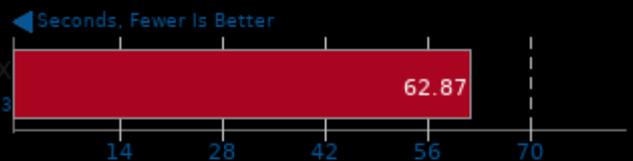
1. (CC) gcc options: -pthread -pthread -O3 -march=native

libavif avifenc 0.9.0

Encoder Speed: 0

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.09, N = 3



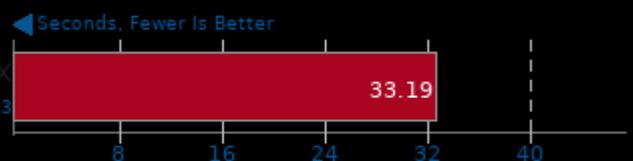
1. (CXX) g++ options: -O3 -fPIC -lm

libavif avifenc 0.9.0

Encoder Speed: 2

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

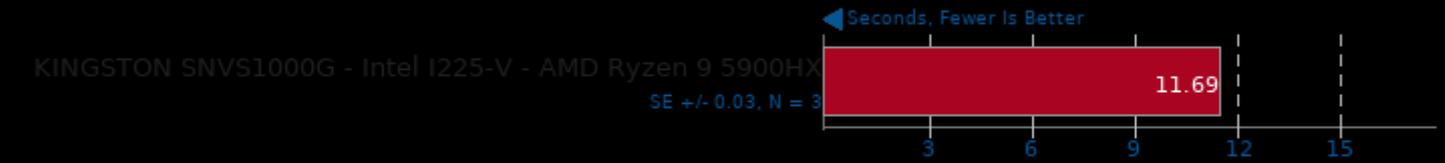
SE +/- 0.14, N = 3



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

libavif avifenc 0.9.0

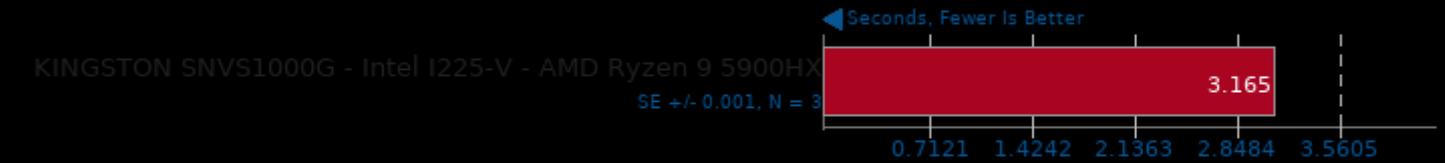
Encoder Speed: 6



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

libavif avifenc 0.9.0

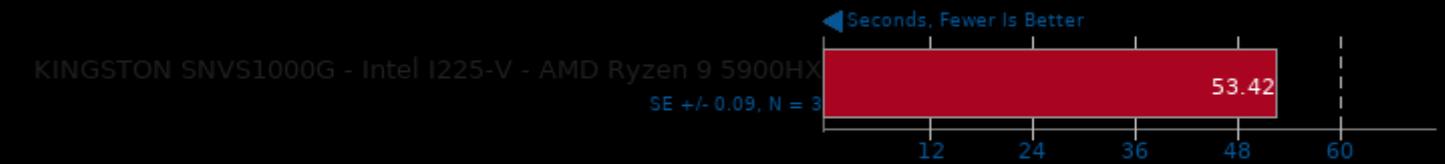
Encoder Speed: 10



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

libavif avifenc 0.9.0

Encoder Speed: 6, Lossless



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

libavif avifenc 0.9.0

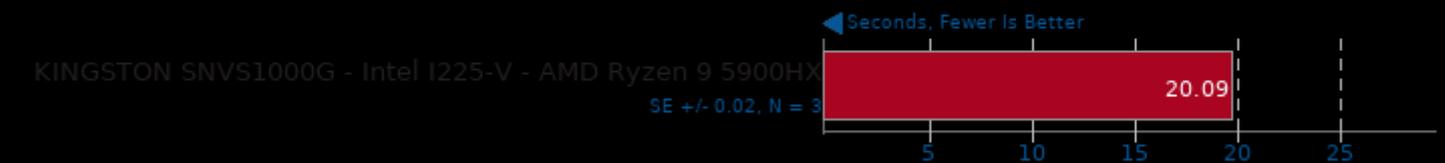
Encoder Speed: 10, Lossless



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

Timed Apache Compilation 2.4.41

Time To Compile

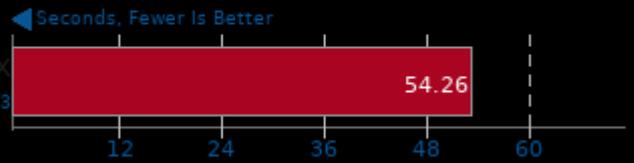


Timed FFmpeg Compilation 4.4

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.08, N = 3

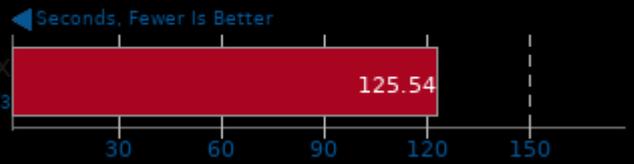


Timed Godot Game Engine Compilation 3.2.3

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.30, N = 3

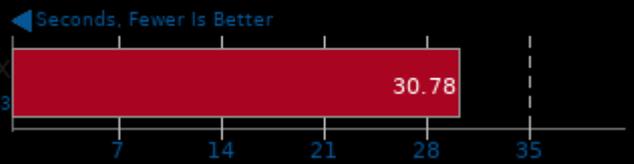


Timed ImageMagick Compilation 6.9.0

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.14, N = 3

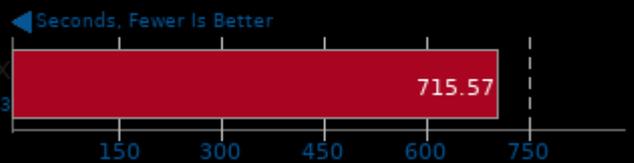


Timed LLVM Compilation 13.0

Build System: Ninja

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.24, N = 3

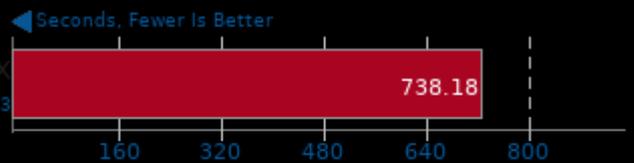


Timed LLVM Compilation 13.0

Build System: Unix Makefiles

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.91, N = 3

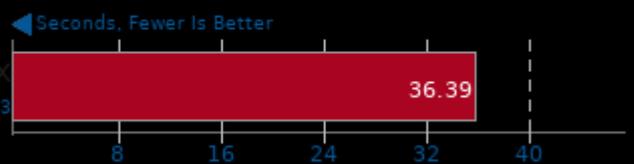


Timed MPlayer Compilation 1.4

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.11, N = 3

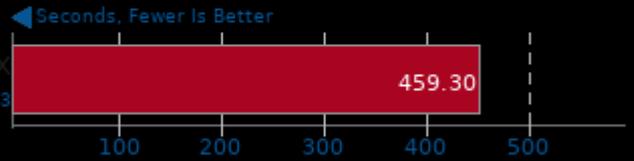


Timed Node.js Compilation 15.11

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.19, N = 3

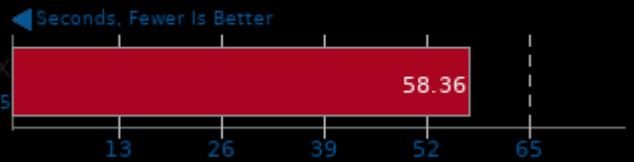


Timed PHP Compilation 7.4.2

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.35, N = 15

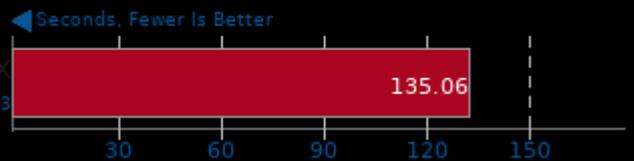


Build2 0.13

Time To Compile

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.54, N = 3

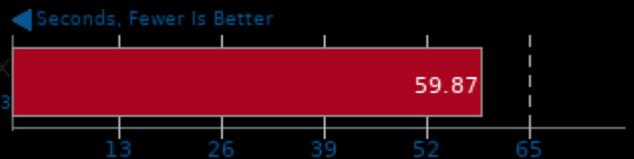


C-Ray 1.1

Total Time - 4K, 16 Rays Per Pixel

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.83, N = 3



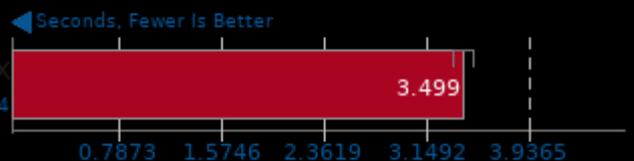
1. (CC) gcc options: -lm -pthread -O3

Parallel BZIP2 Compression 1.1.12

256MB File Compression

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

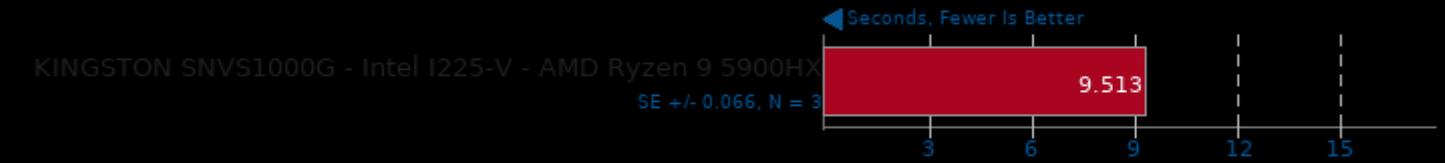
SE +/- 0.071, N = 14



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

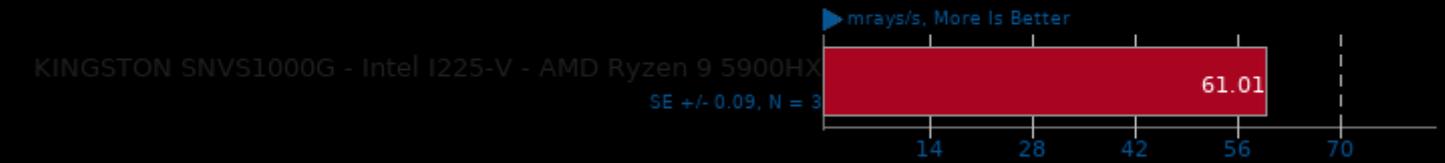
Smallpt 1.0

Global Illumination Renderer; 128 Samples



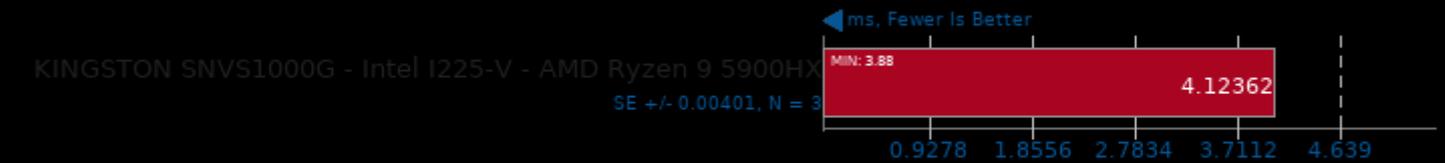
rays1bench 2020-01-09

Large Scene



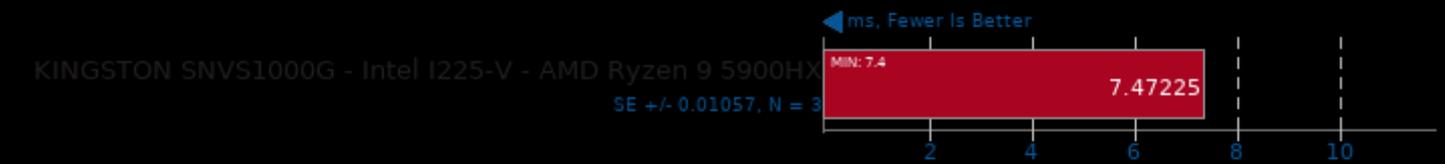
oneDNN 2.1.2

Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU



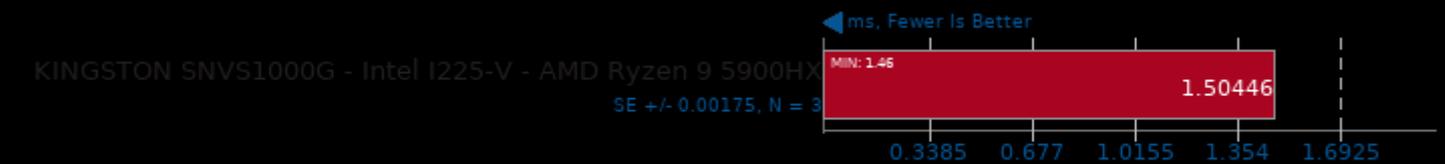
oneDNN 2.1.2

Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU



oneDNN 2.1.2

Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU

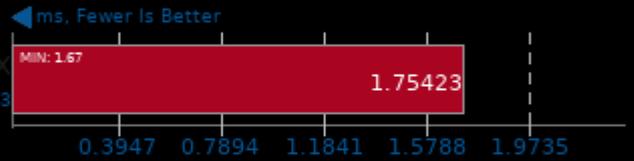


oneDNN 2.1.2

Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00125, N = 3



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Deconvolution Batch shapes_1d - Data Type: f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.08425, N = 15



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Deconvolution Batch shapes_3d - Data Type: f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.07460, N = 5



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.03, N = 3

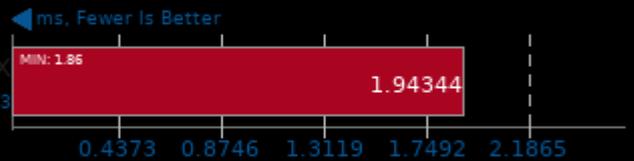


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.01872, N = 3

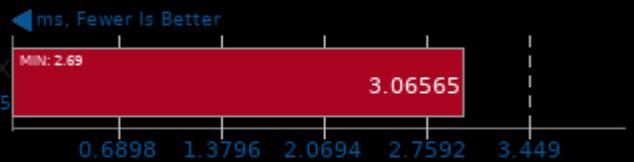


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.05285, N = 15

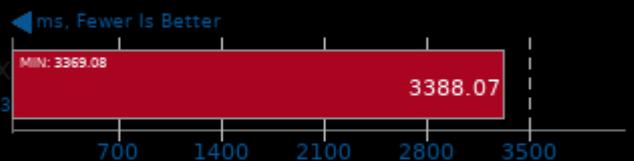


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 3.27, N = 3

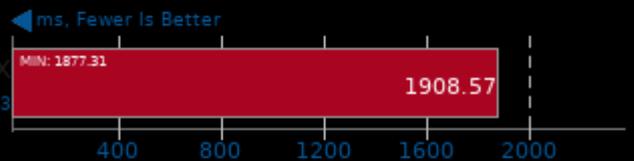


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 2.64, N = 3

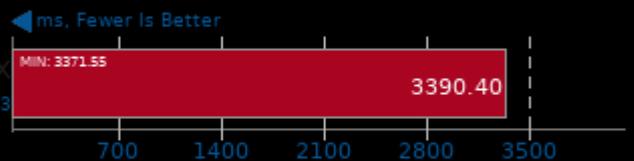


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 1.24, N = 3

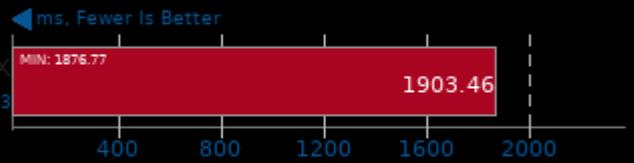


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 4.58, N = 3

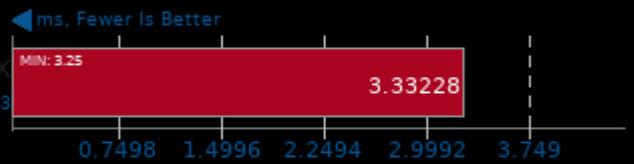


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.00050, N = 3

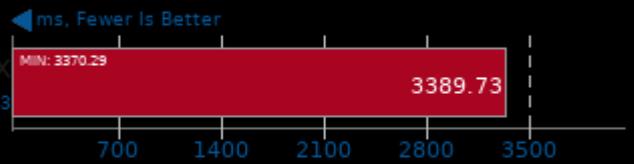


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Recurrent Neural Network Training - Data Type: bf16bf16bf16 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 2.70, N = 3

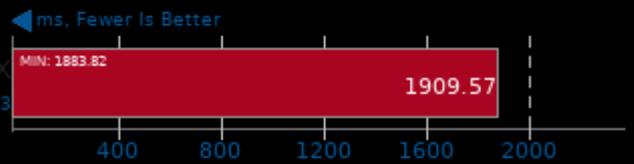


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

Harness: Recurrent Neural Network Inference - Data Type: bf16bf16bf16 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 4.22, N = 3

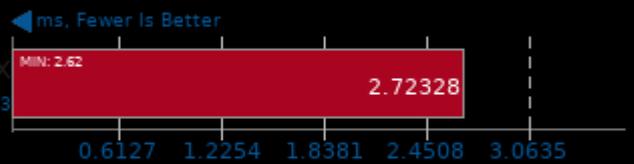


1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

oneDNN 2.1.2

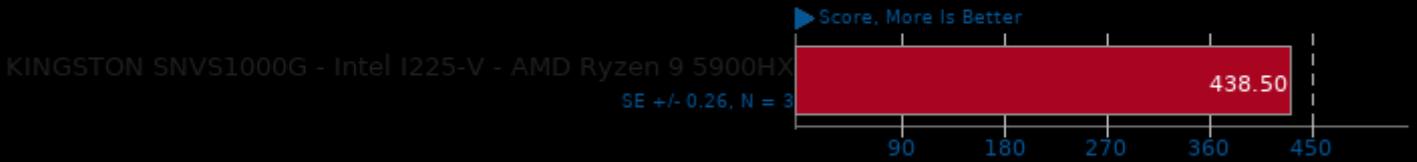
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.00382, N = 3



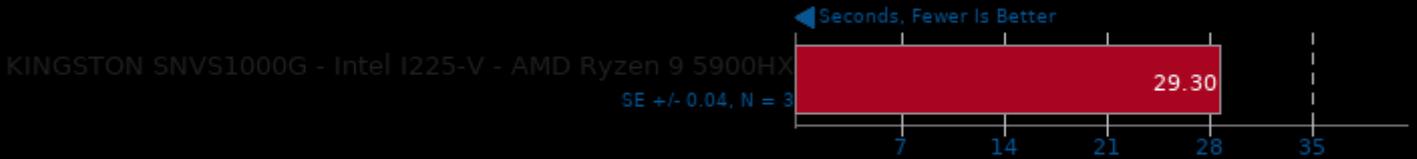
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fpic -pie -ldl -lpthread

Numpy Benchmark



AOBench

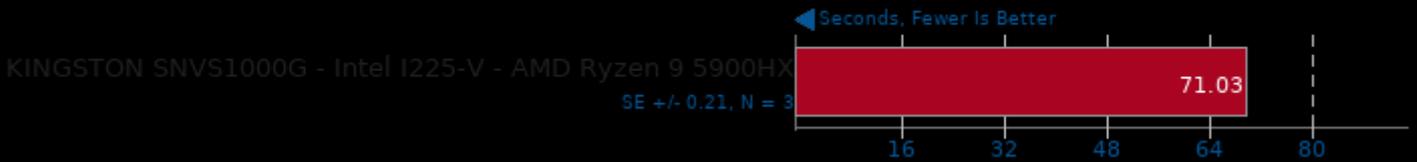
Size: 2048 x 2048 - Total Time



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

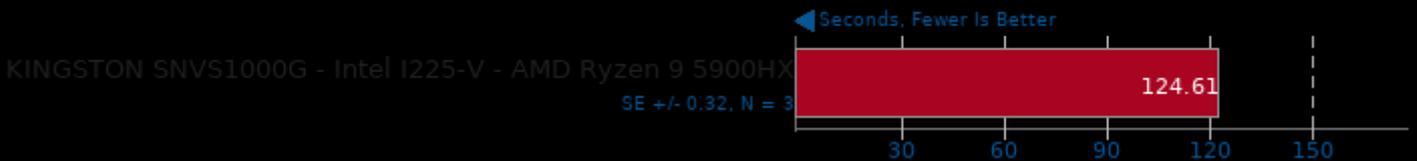
Timed Eigen Compilation 3.3.9

Time To Compile



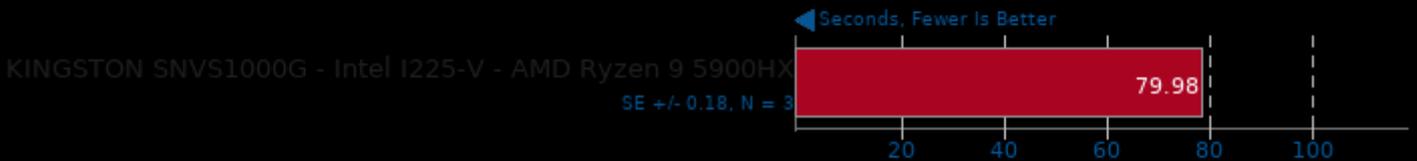
Timed Erlang/OTP Compilation 23.2

Time To Compile



Timed Wasmer Compilation 1.0.2

Time To Compile



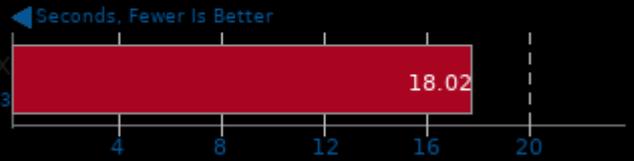
1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lgcc_s -lutil -lrt -lpthread -lm -lc

Cython Benchmark 0.29.21

Test: N-Queens

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.14, N = 3

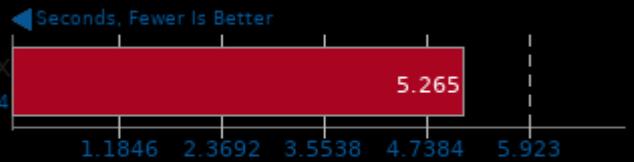


FFmpeg 4.0.2

H.264 HD To NTSC DV

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.066, N = 4



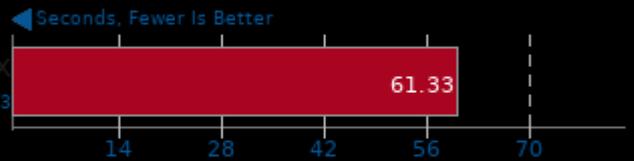
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lXv -lX11 -lXext -lm -lxcb -lasound -pthread -lva -lbz2 -lZma

m-queens 1.2

Time To Solve

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.03, N = 3



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

N-Queens 1.0

Elapsed Time

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.05, N = 3



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

Perl Benchmarks

Test: Pod2html

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00018153, N = 3



Perl Benchmarks

Test: Interpreter

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

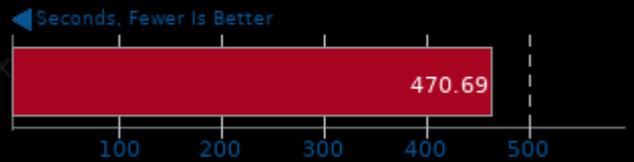
SE +/- 0.00000666, N = 3



Radiance Benchmark 5.0

Test: Serial

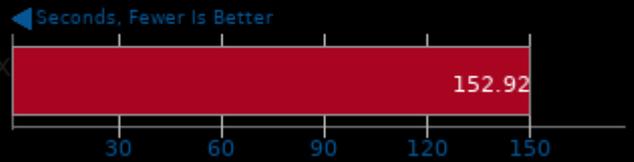
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX



Radiance Benchmark 5.0

Test: SMP Parallel

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

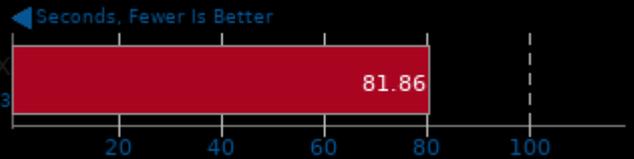


Tachyon 0.99b6

Total Time

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.17, N = 3



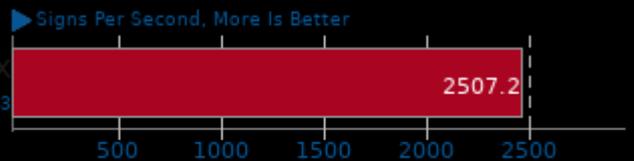
1. (CC) gcc options: -m64 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread

OpenSSL 1.1.1

RSA 4096-bit Performance

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.75, N = 3

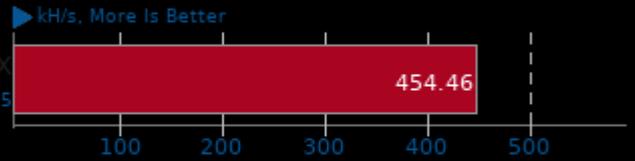


Cpuminer-Opt 3.18

Algorithm: Magi

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 3.03, N = 15



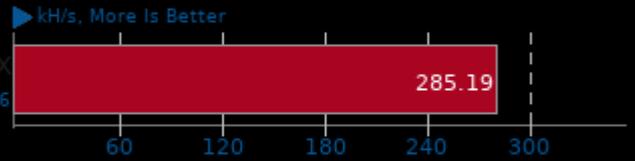
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: x25x

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2.88, N = 6



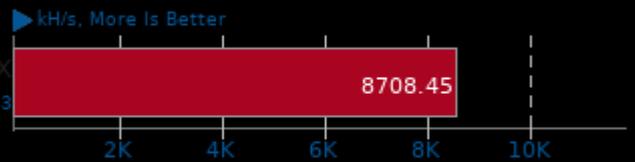
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Deepcoin

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 75.23, N = 3



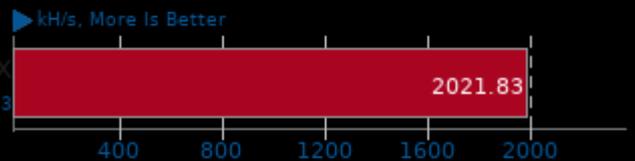
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Ringcoin

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 12.01, N = 3



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

Cpuminer-Opt 3.18

Algorithm: Blake-2 S

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 4135.95, N = 6



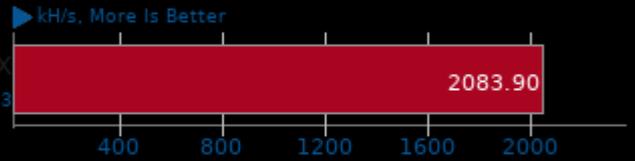
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Garlicoin

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 13.36, N = 3



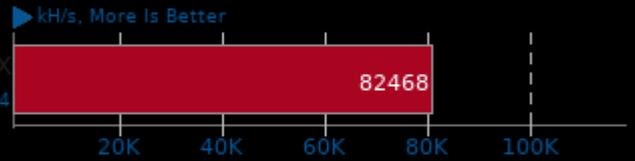
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Skeincoin

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1025.53, N = 4



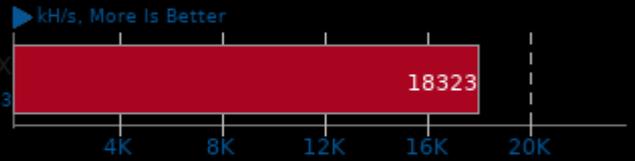
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Myriad-Groestl

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 123.33, N = 3



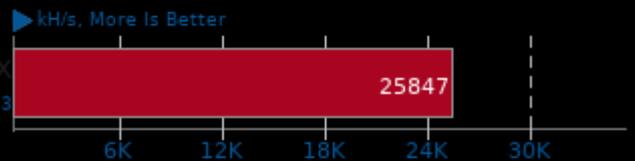
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: LBC, LBRY Credits

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 198.77, N = 3



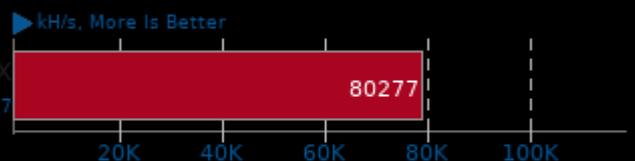
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Quad SHA-256, Pyrite

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

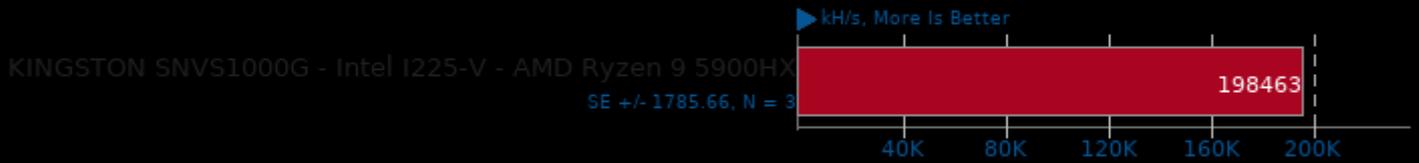
SE +/- 755.02, N = 7



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

Cpuminer-Opt 3.18

Algorithm: Triple SHA-256, Onecoin



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

OpenSSL 3.0

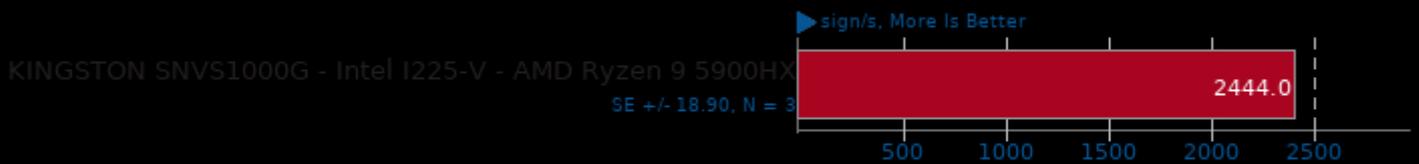
Algorithm: SHA256



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

OpenSSL 3.0

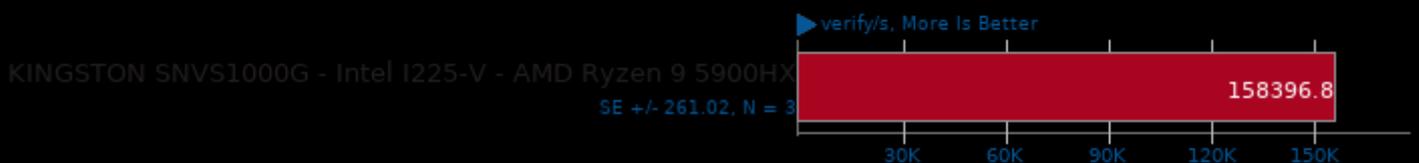
Algorithm: RSA4096



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

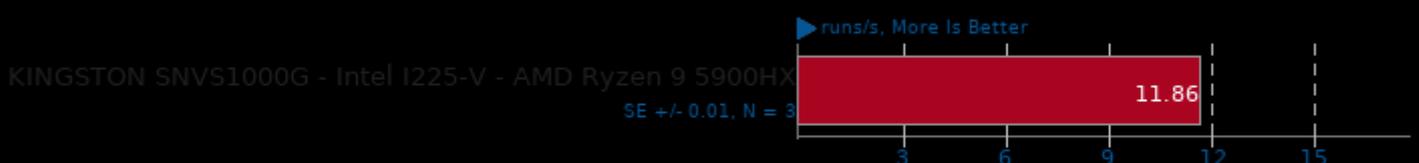
OpenSSL 3.0

Algorithm: RSA4096



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

Node.js V8 Web Tooling Benchmark

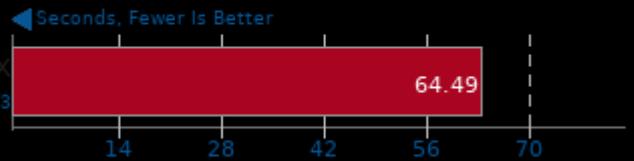


1. Node.js v12.22.5

Apache CouchDB 3.1.1

Bulk Size: 100 - Inserts: 1000 - Rounds: 24

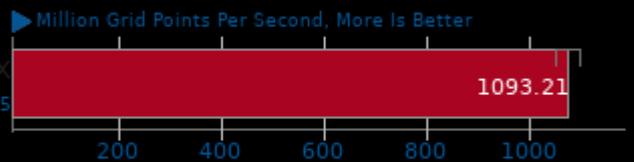
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 0.11, N = 3



ASKAP 1.0

Test: tConvolve MT - Gridding

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 25.61, N = 15

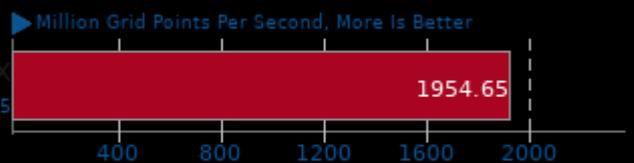


1. (CXX) g++ options: -O3 -fstrict-aliasing -fopenmp

ASKAP 1.0

Test: tConvolve MT - Degriding

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 2.79, N = 15

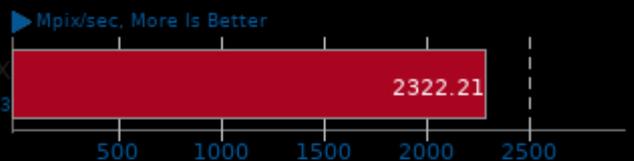


1. (CXX) g++ options: -O3 -fstrict-aliasing -fopenmp

ASKAP 1.0

Test: tConvolve MPI - Degriding

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 11.86, N = 3

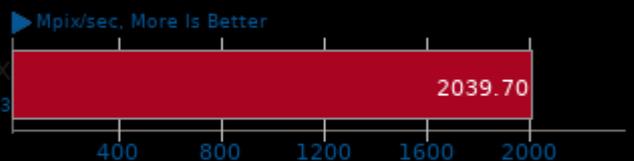


1. (CXX) g++ options: -O3 -fstrict-aliasing -fopenmp

ASKAP 1.0

Test: tConvolve MPI - Gridding

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX
SE +/- 18.92, N = 3



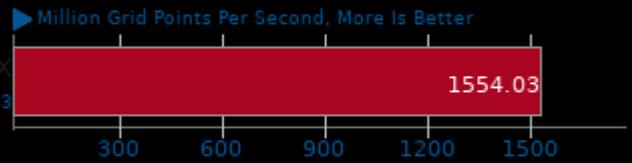
1. (CXX) g++ options: -O3 -fstrict-aliasing -fopenmp

ASKAP 1.0

Test: tConvolve OpenMP - Gridding

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 3.02, N = 3



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

ASKAP 1.0

Test: tConvolve OpenMP - Degridding

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 10.60, N = 3



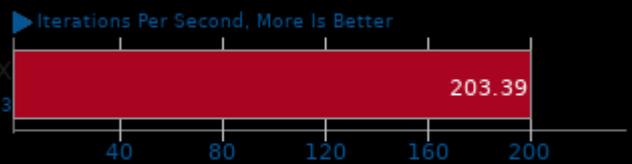
1. (CXX) g++ options: -O3 -fstrict-aliasing -fopenmp

ASKAP 1.0

Test: Hogbom Clean OpenMP

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.50, N = 3



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

Cryptsetup

PBKDF2-sha512

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 9262.74, N = 3



Cryptsetup

PBKDF2-whirlpool

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 945.67, N = 3

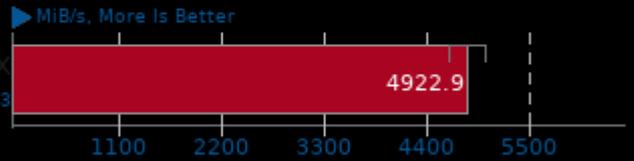


Cryptsetup

AES-XTS 256b Encryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 186.87, N = 3

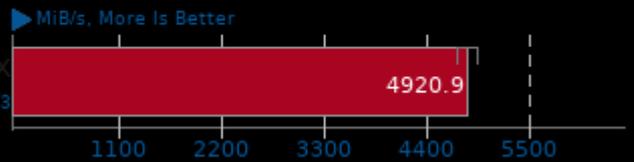


Cryptsetup

AES-XTS 256b Decryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 114.44, N = 3

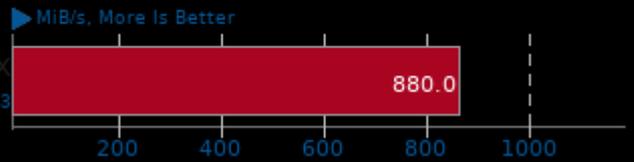


Cryptsetup

Serpent-XTS 256b Encryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 14.16, N = 3

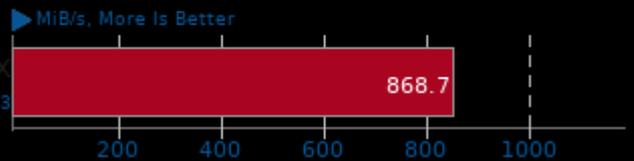


Cryptsetup

Serpent-XTS 256b Decryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 8.23, N = 3

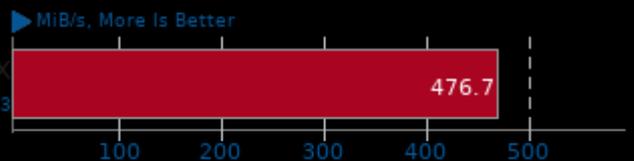


Cryptsetup

Twofish-XTS 256b Encryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.99, N = 3

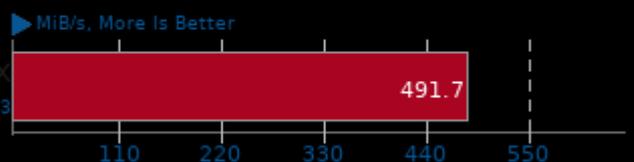


Cryptsetup

Twofish-XTS 256b Decryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2.45, N = 3

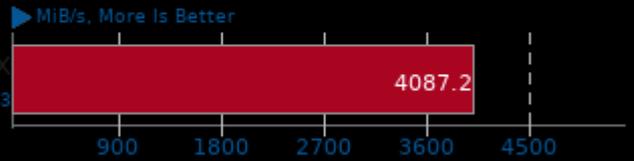


Cryptsetup

AES-XTS 512b Encryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 51.39, N = 3

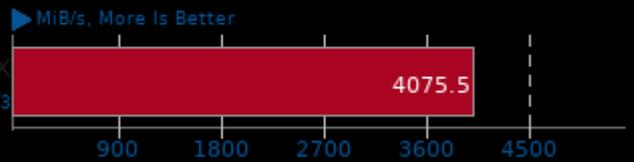


Cryptsetup

AES-XTS 512b Decryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 50.09, N = 3

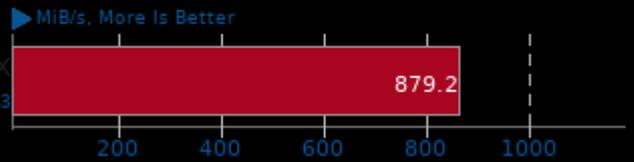


Cryptsetup

Serpent-XTS 512b Encryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 6.69, N = 3

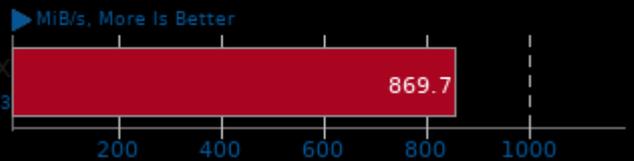


Cryptsetup

Serpent-XTS 512b Decryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 8.03, N = 3

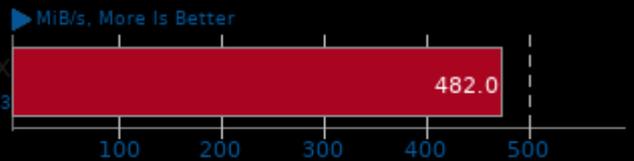


Cryptsetup

Twofish-XTS 512b Encryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 3.02, N = 3

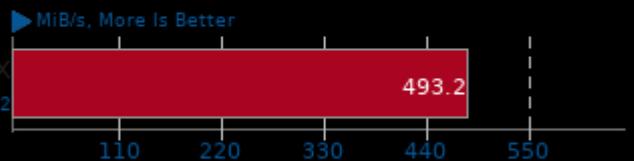


Cryptsetup

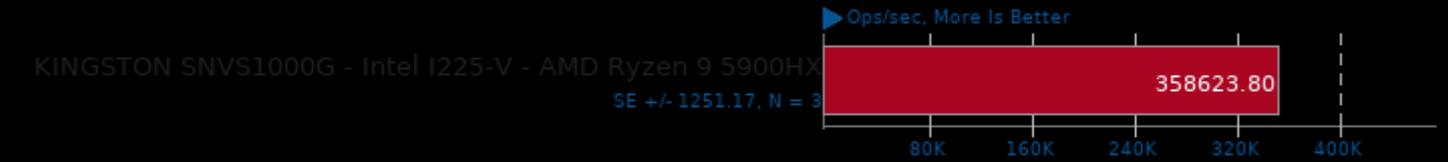
Twofish-XTS 512b Decryption

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 3.70, N = 2



KeyDB 6.2.0



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

Intel MPI Benchmarks 2019.3

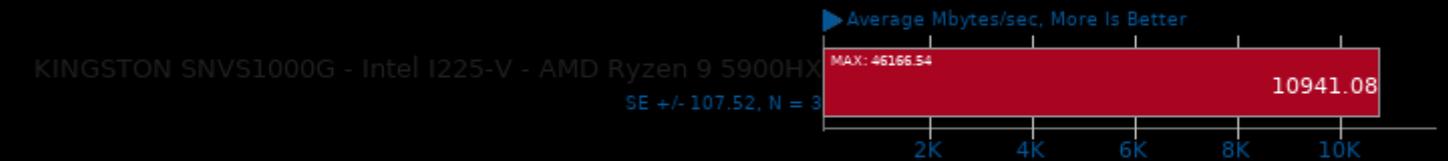
Test: IMB-P2P PingPong



1. (CXX) g++ options: -O0 -pedantic -fopenmp -lmpi_cxx -lmpi

Intel MPI Benchmarks 2019.3

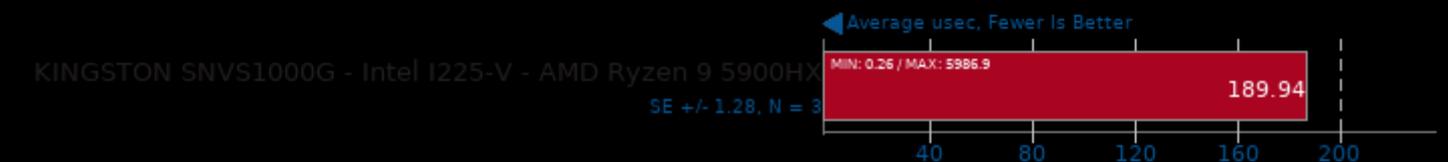
Test: IMB-MPI1 Exchange



1. (CXX) g++ options: -O0 -pedantic -fopenmp -lmpi_cxx -lmpi

Intel MPI Benchmarks 2019.3

Test: IMB-MPI1 Exchange



1. (CXX) g++ options: -O0 -pedantic -fopenmp -lmpi_cxx -lmpi

Intel MPI Benchmarks 2019.3

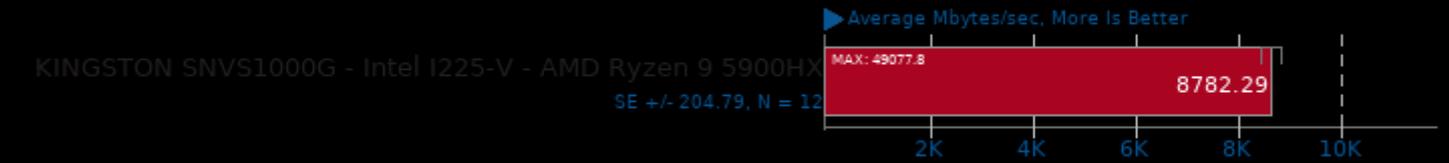
Test: IMB-MPI1 PingPong



1. (CXX) g++ options: -O0 -pedantic -fopenmp -lmpi_cxx -lmpi

Intel MPI Benchmarks 2019.3

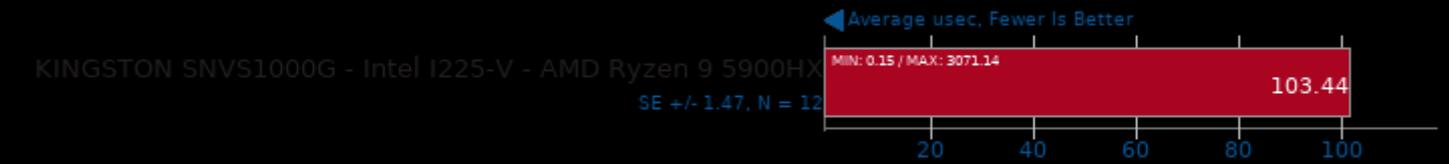
Test: IMB-MPI1 Sendrecv



1. (CXX) g++ options: -O0 -pedantic -fopenmp -lmpi_cxx -lmpi

Intel MPI Benchmarks 2019.3

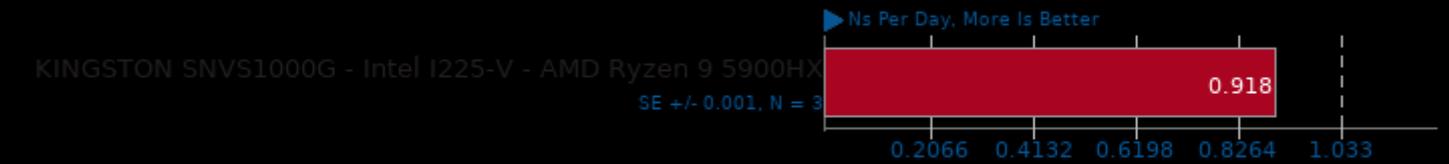
Test: IMB-MPI1 Sendrecv



1. (CXX) g++ options: -O0 -pedantic -fopenmp -lmpi_cxx -lmpi

GROMACS 2021.2

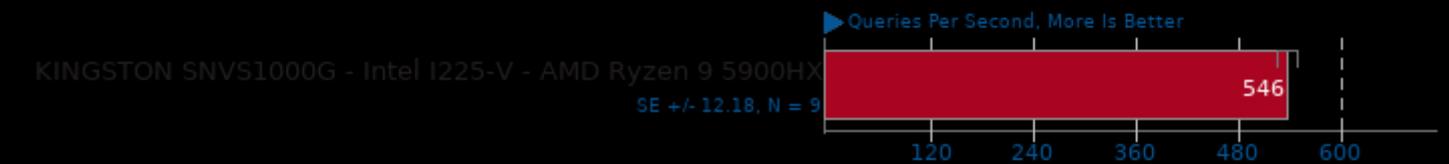
Implementation: MPI CPU - Input: water_GMX50_bare



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

MariaDB 10.6.4

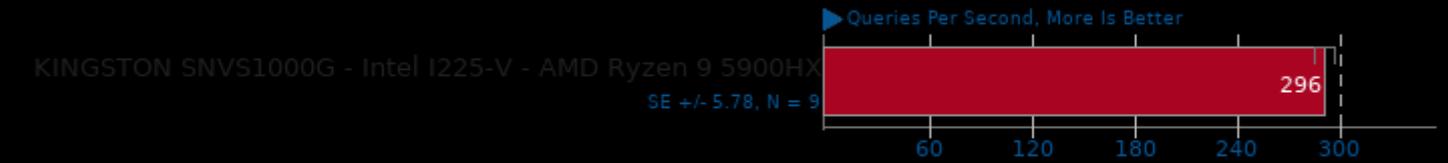
Clients: 1



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -lajio -lz -lm -lssl -lcrypto -lpthread -ldl

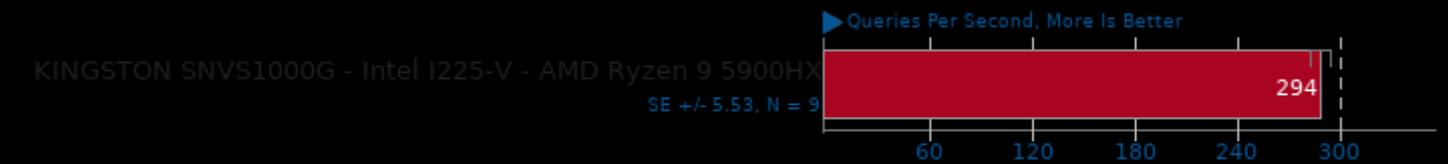
MariaDB 10.6.4

Clients: 8



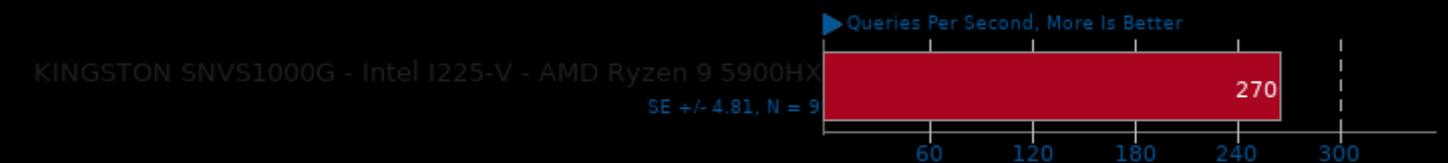
MariaDB 10.6.4

Clients: 16



MariaDB 10.6.4

Clients: 32



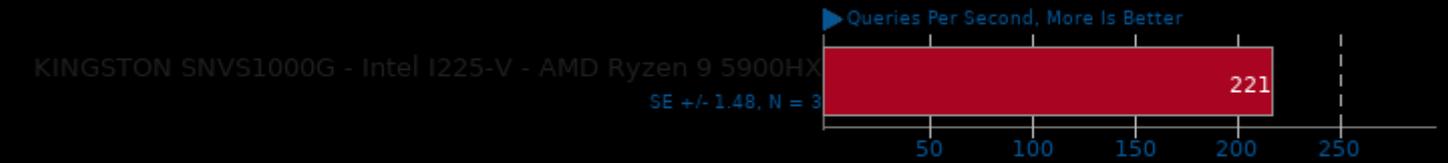
MariaDB 10.6.4

Clients: 64



MariaDB 10.6.4

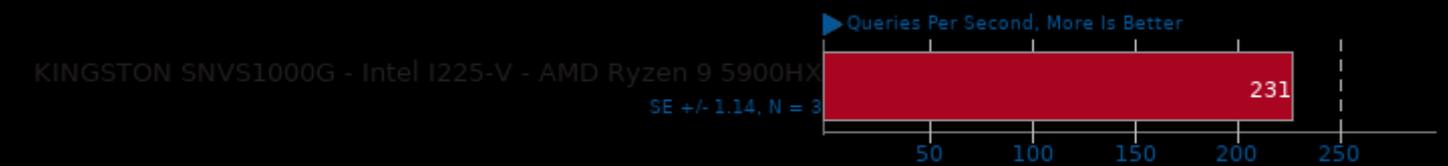
Clients: 128



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

MariaDB 10.6.4

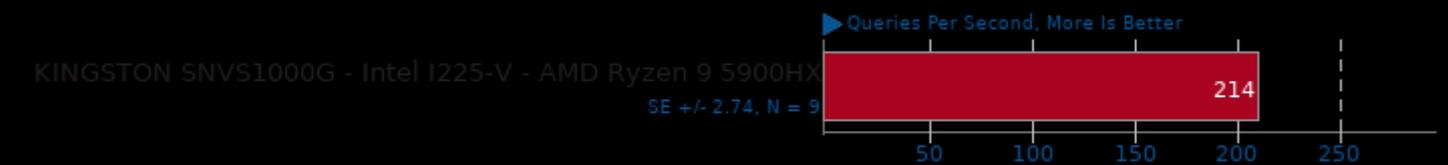
Clients: 256



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

MariaDB 10.6.4

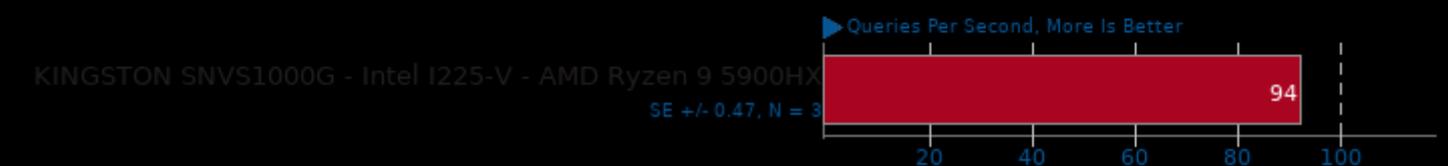
Clients: 512



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

MariaDB 10.6.4

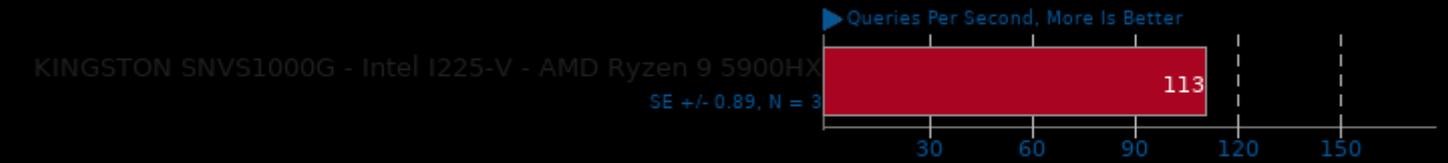
Clients: 1024



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

MariaDB 10.6.4

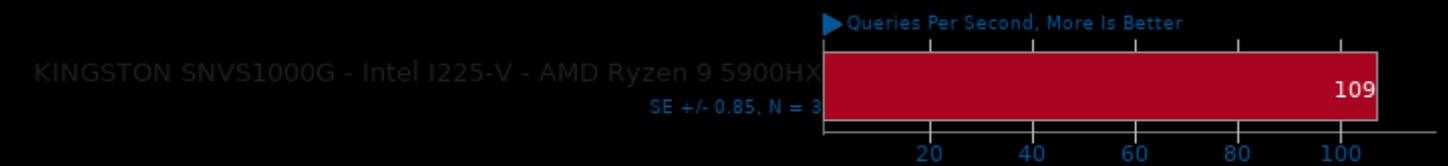
Clients: 2048



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

MariaDB 10.6.4

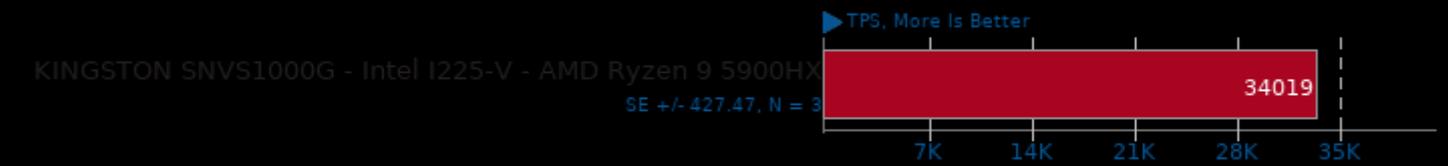
Clients: 4096



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O3 -llzma -lbz2 -lsnappy -lnuma -lpcr2-8 -lcrypt -laio -lz -lm -lssl -lcrypto -lpthread -ldl

PostgreSQL pgbench 14.0

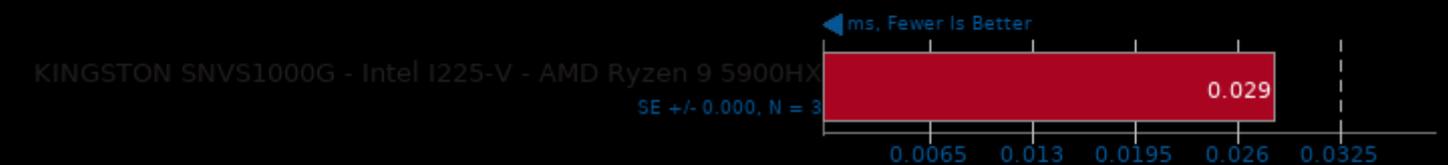
Scaling Factor: 1 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

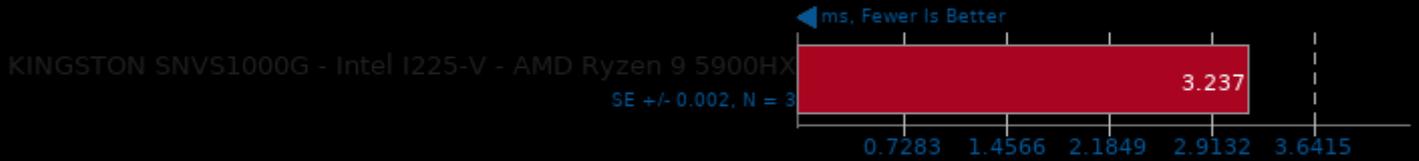
Scaling Factor: 1 - Clients: 1 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

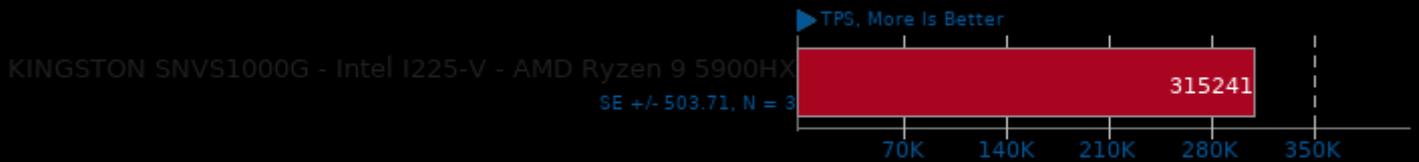
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

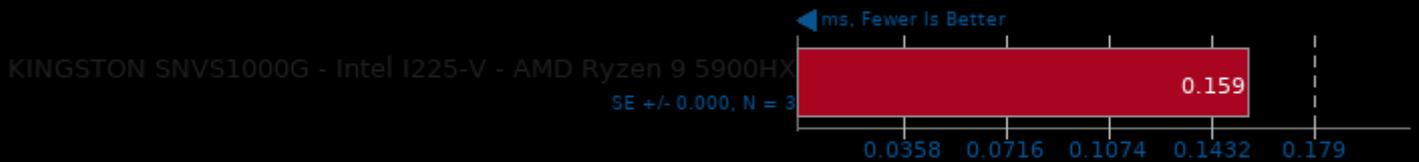
Scaling Factor: 1 - Clients: 50 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

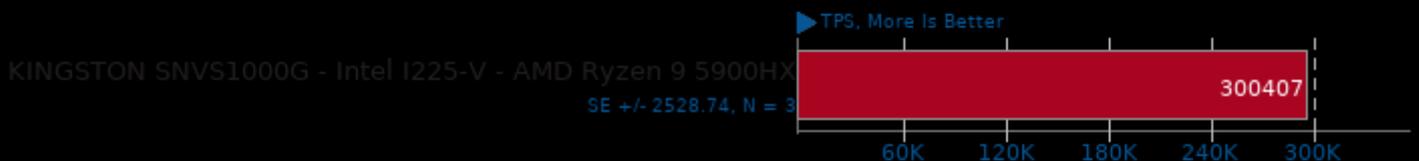
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

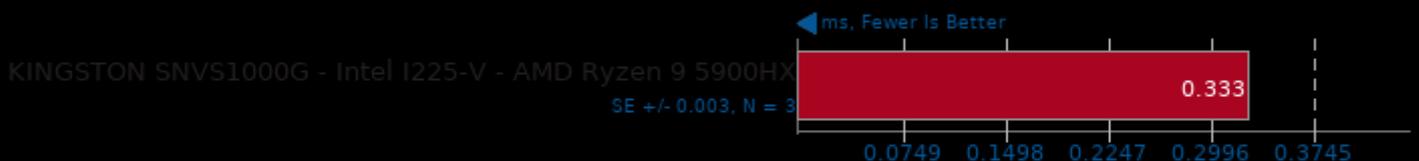
Scaling Factor: 1 - Clients: 100 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency



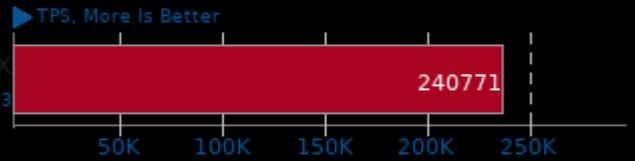
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 250 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1965.70, N = 3



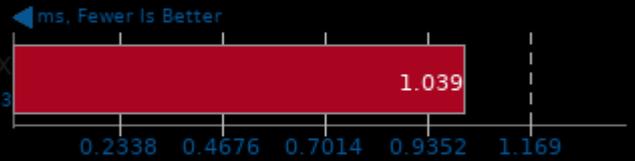
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.009, N = 3



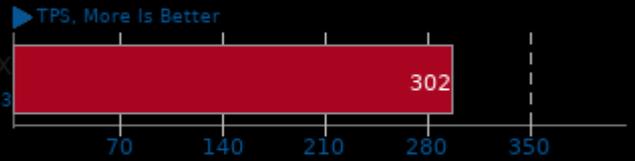
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 50 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.29, N = 3



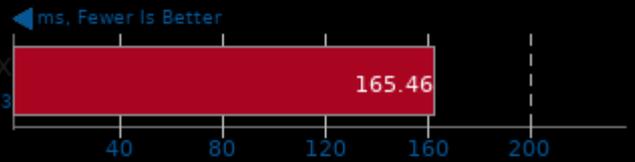
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.16, N = 3



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 500 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

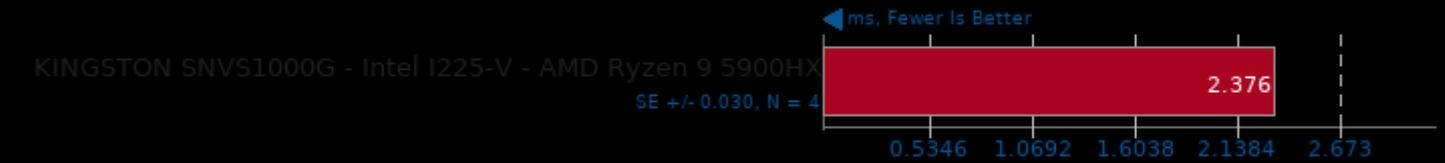
SE +/- 2603.46, N = 4



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

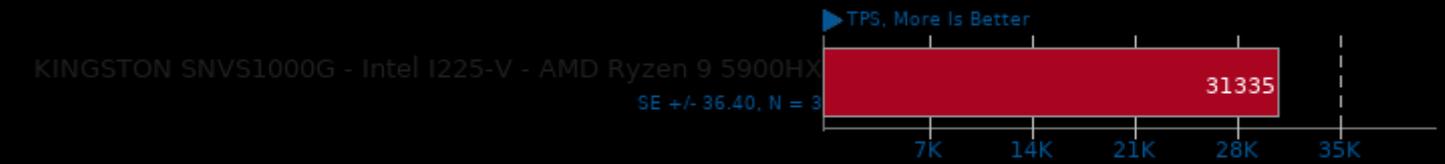
Scaling Factor: 1 - Clients: 500 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

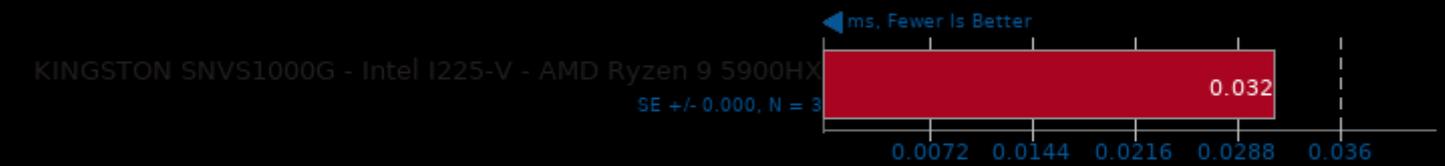
Scaling Factor: 100 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

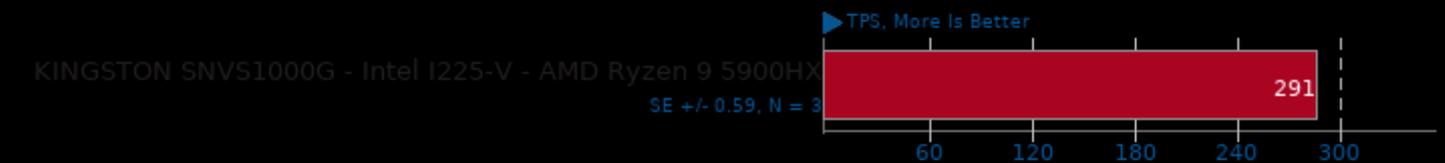
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

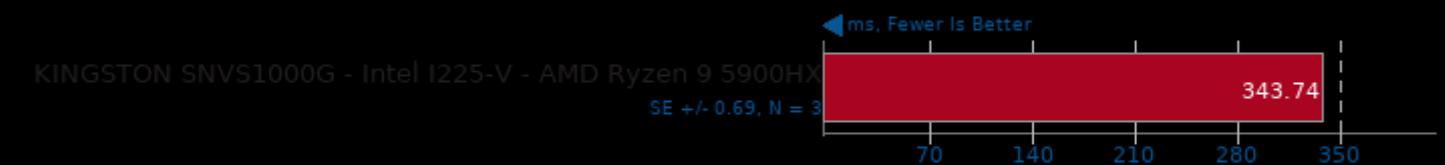
Scaling Factor: 1 - Clients: 100 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency



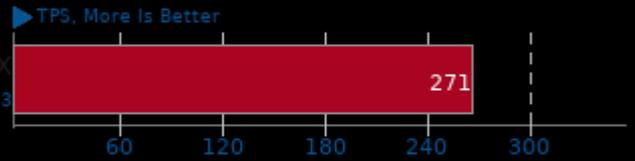
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 250 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.29, N = 3



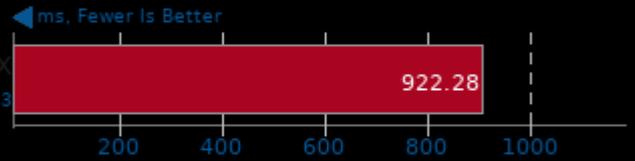
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 4.42, N = 3



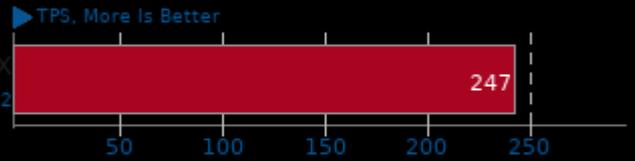
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 500 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 3.59, N = 12



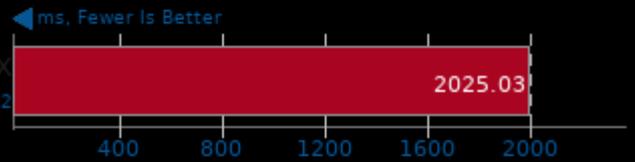
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 29.69, N = 12



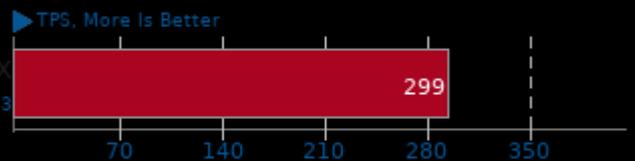
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 1 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

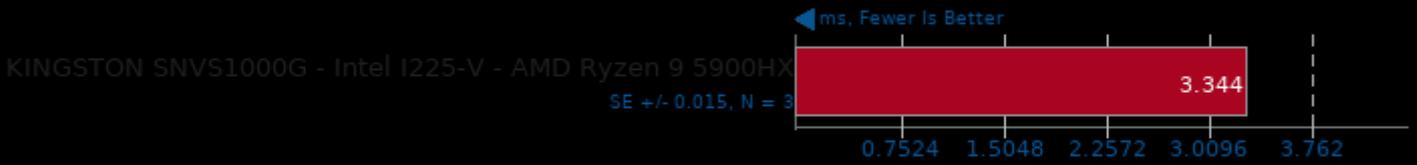
SE +/- 1.35, N = 3



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

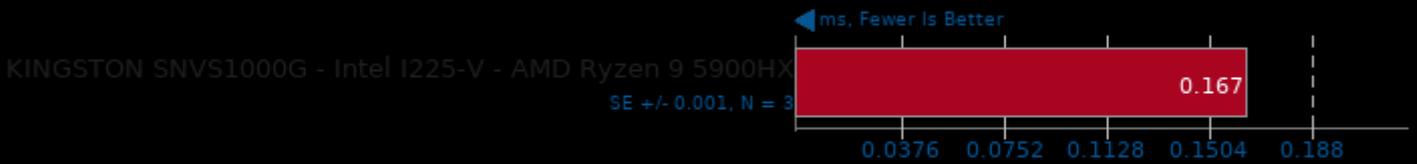
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

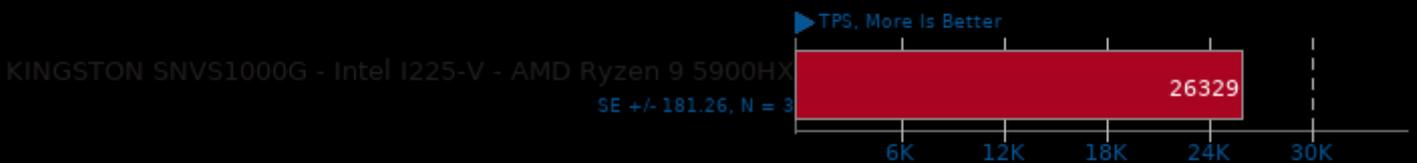
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

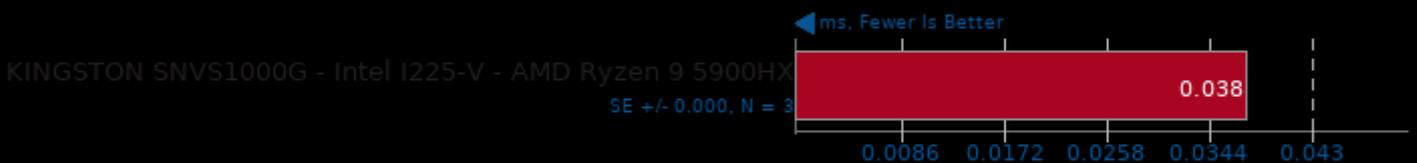
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency



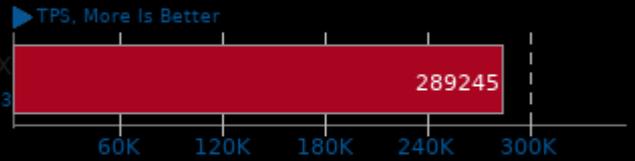
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 100 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1434.38, N = 3



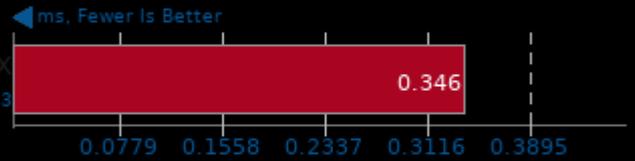
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.002, N = 3



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 250 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2912.13, N = 3



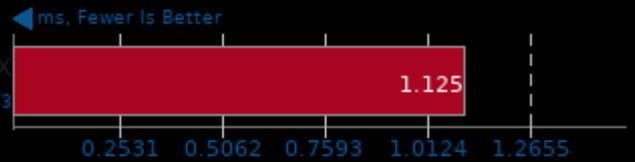
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.015, N = 3



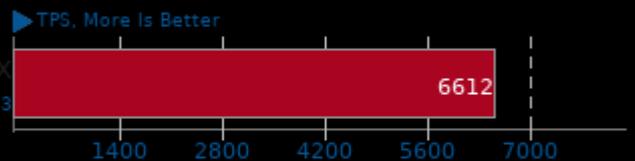
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 50 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

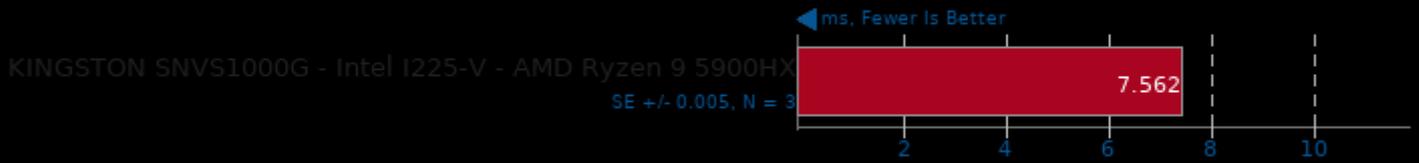
SE +/- 4.35, N = 3



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

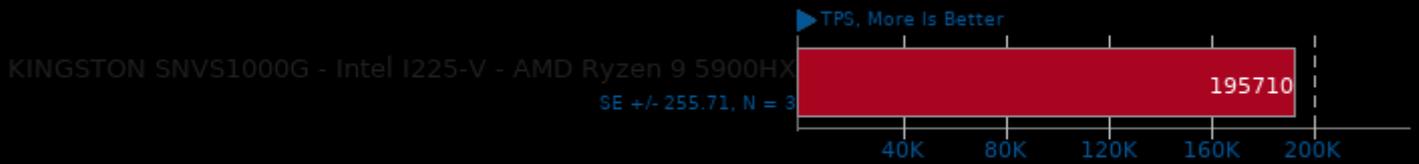
PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



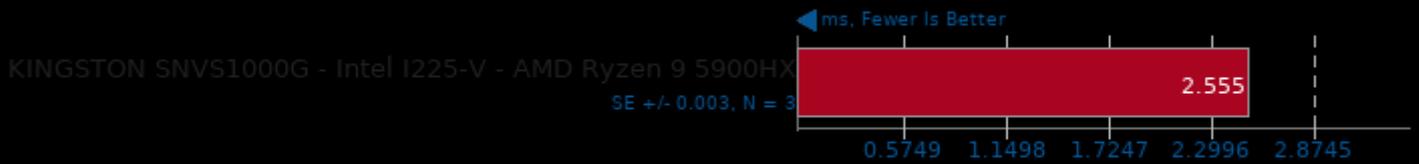
PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 500 - Mode: Read Only



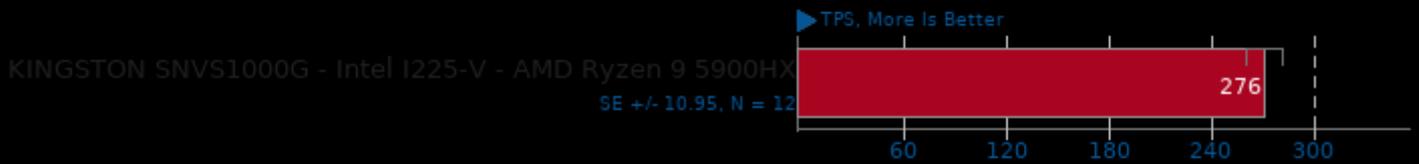
PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency



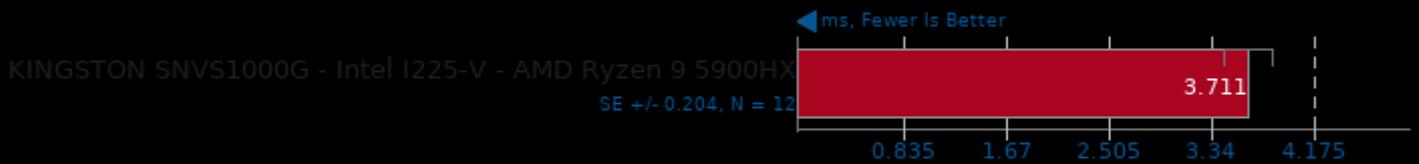
PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 1 - Mode: Read Write



PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency



PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 50 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2071.68, N = 3



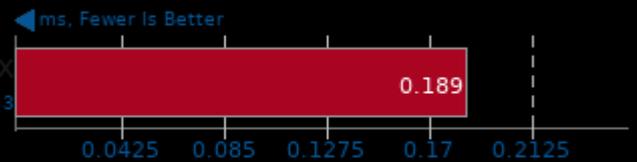
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.001, N = 3



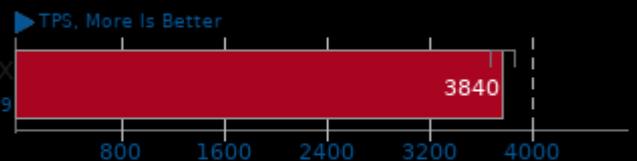
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 1 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 100.46, N = 9



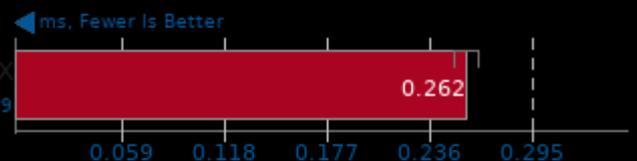
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 1 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.007, N = 9



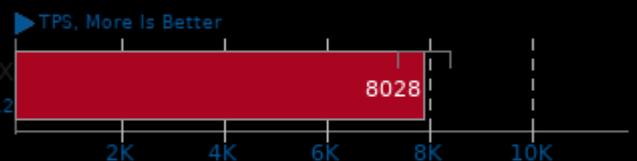
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 100 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

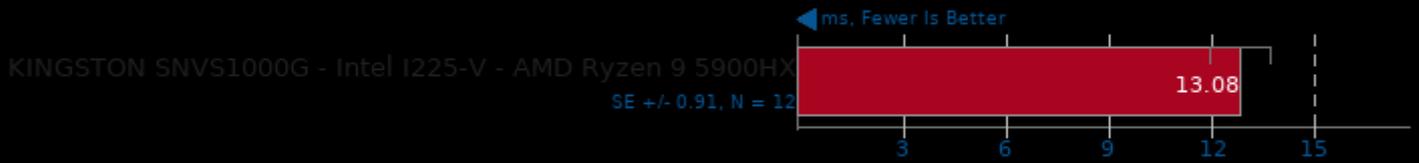
SE +/- 501.23, N = 12



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

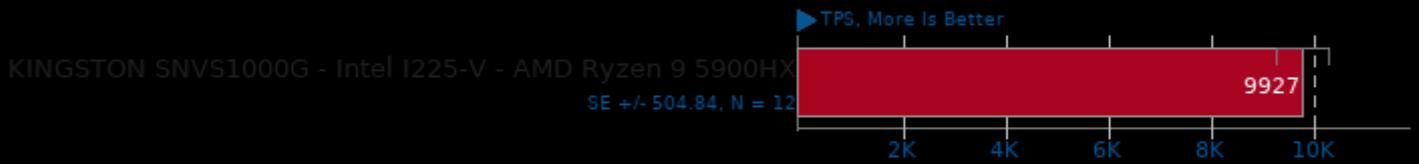
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

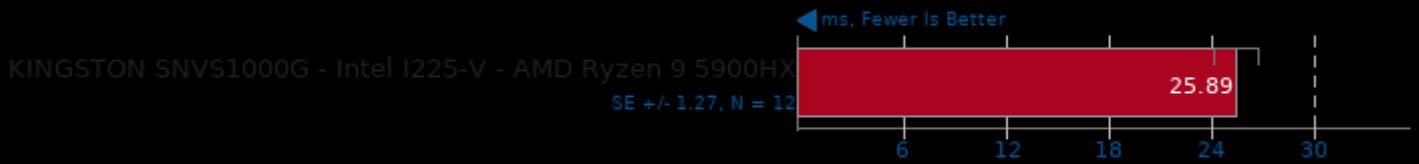
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

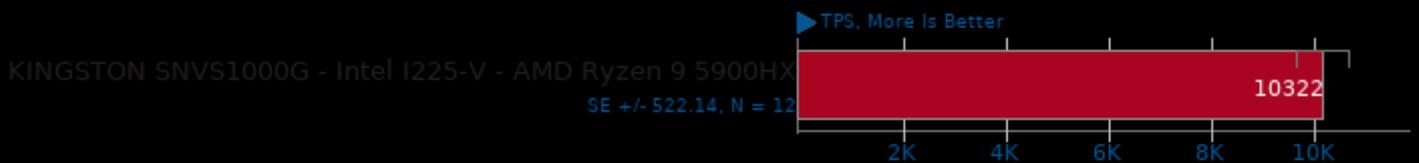
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

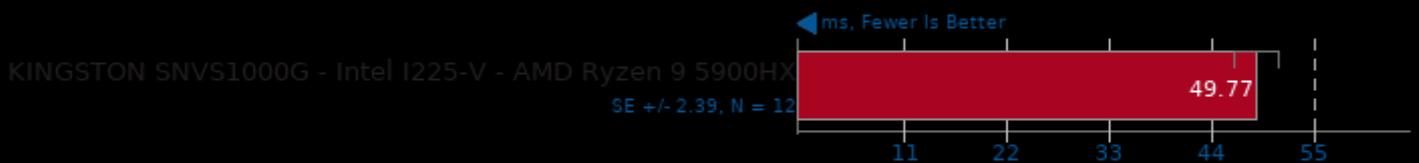
Scaling Factor: 100 - Clients: 500 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 100 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1007.97, N = 3



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 100 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.001, N = 3



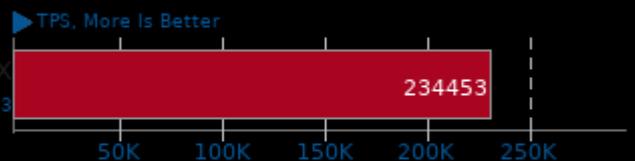
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 250 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 357.82, N = 3



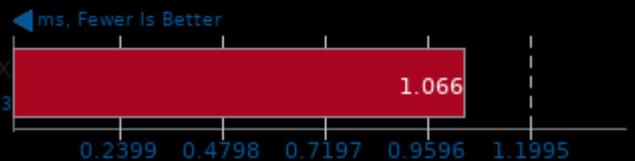
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 250 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.002, N = 3



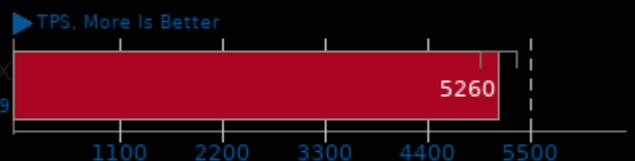
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 50 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

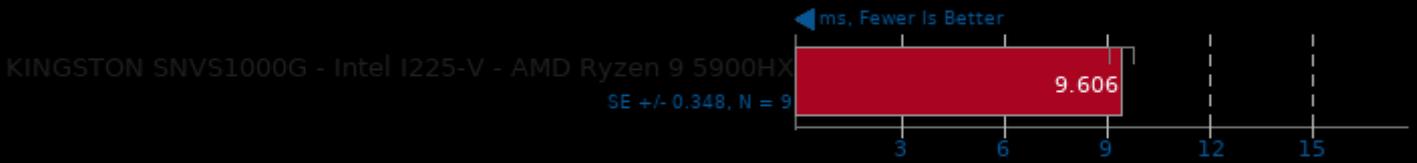
SE +/- 189.23, N = 9



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

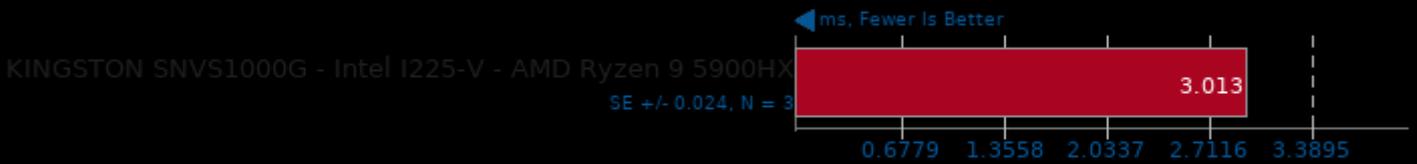
Scaling Factor: 1000 - Clients: 500 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 500 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

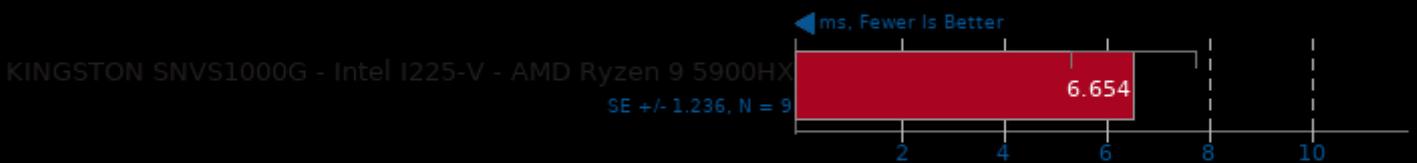
Scaling Factor: 10000 - Clients: 1 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 1 - Mode: Read Write - Average Latency



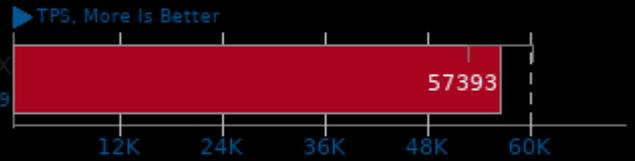
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 50 - Mode: Read Only

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 3711.88, N = 9



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 50 - Mode: Read Only - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.062, N = 9



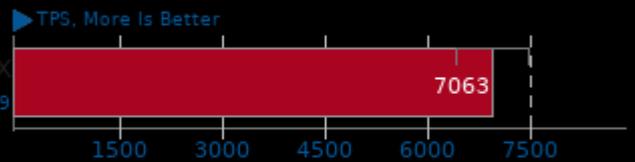
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 100 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 535.18, N = 9



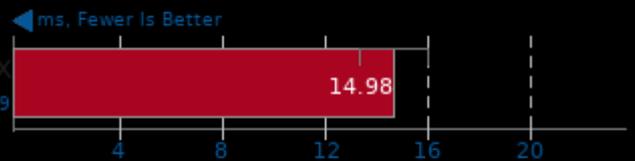
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 100 - Mode: Read Write - Average Latency

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.37, N = 9



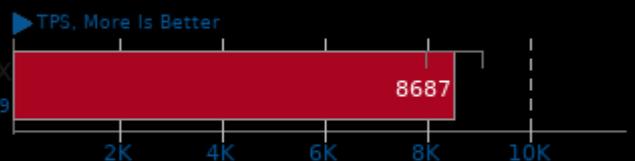
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 250 - Mode: Read Write

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

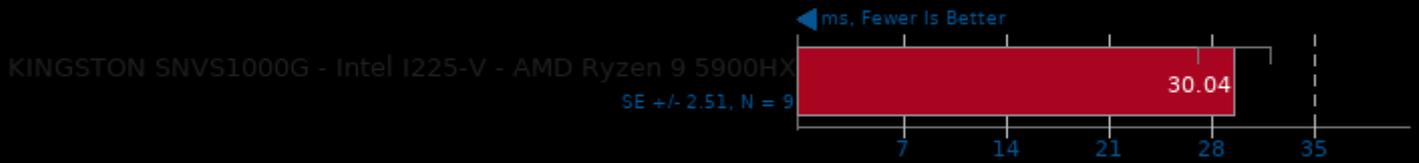
SE +/- 566.20, N = 9



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 250 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 500 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 500 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 100 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

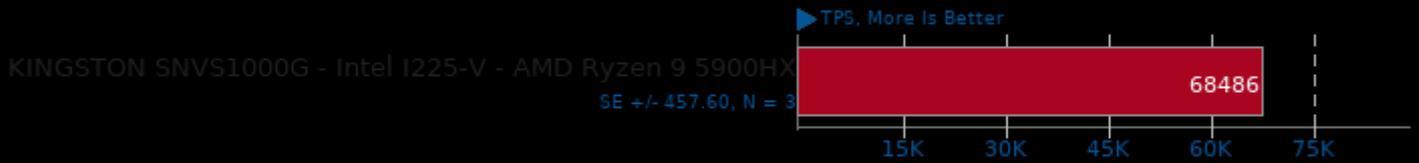
Scaling Factor: 10000 - Clients: 100 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

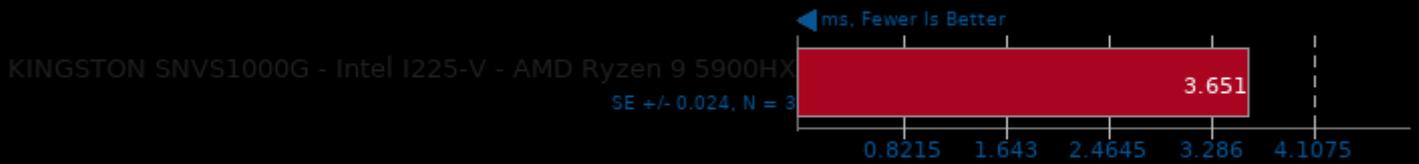
Scaling Factor: 10000 - Clients: 250 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 250 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 50 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 50 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

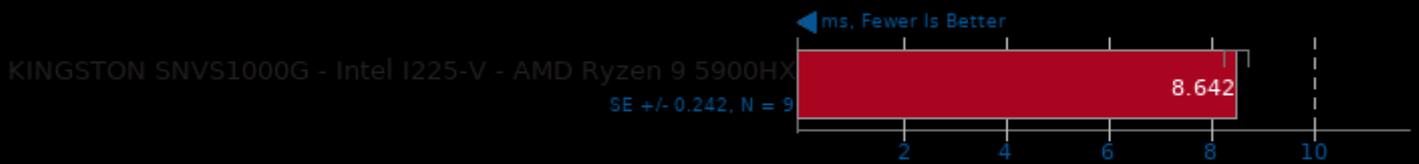
Scaling Factor: 10000 - Clients: 500 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 500 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 100 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 100 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 250 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 250 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 500 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

PostgreSQL pgbench 14.0

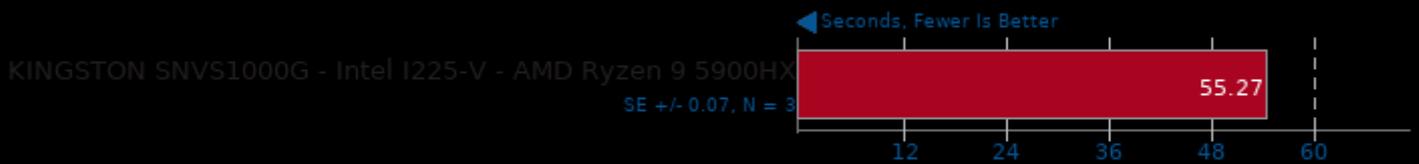
Scaling Factor: 10000 - Clients: 500 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

SQLite Speedtest 3.30

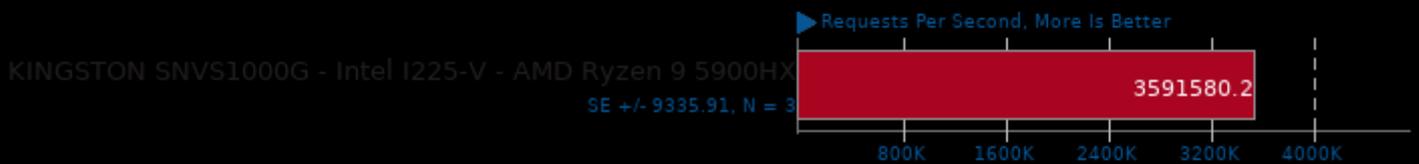
Timed Time - Size 1,000



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

Redis 6.0.9

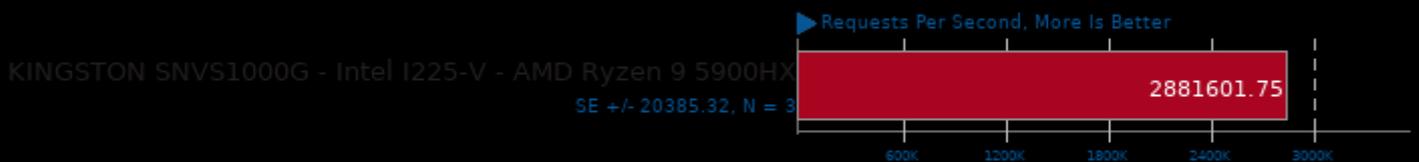
Test: LPOP



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

Redis 6.0.9

Test: SADD



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

Redis 6.0.9

Test: LPUISH

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1575.36, N = 3



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

Redis 6.0.9

Test: GET

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 37843.77, N = 3



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

Redis 6.0.9

Test: SET

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 14437.74, N = 3



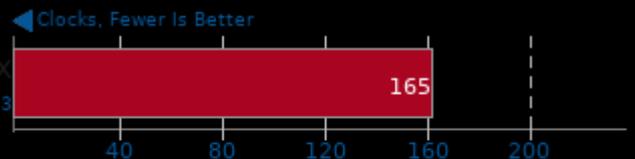
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

ctx_clock

Context Switch Time

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



Sysbench 2018-07-28

Test: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 122.18, N = 3



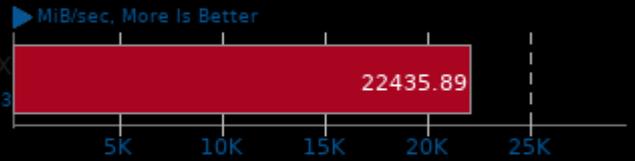
1. (CC) gcc options: -O3 -funroll-loops -ggdb3 -march=amdfam10 -rdynamic -ldl -laio -lm

Sysbench 1.0.20

Test: RAM / Memory

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 286.44, N = 3



1. (CC) gcc options: -O2 -funroll-loops -rdynamic -ldl -laio -lm

Sysbench 1.0.20

Test: CPU

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 88.56, N = 3



1. (CC) gcc options: -O2 -funroll-loops -rdynamic -ldl -laio -lm

IndigoBench 4.4

Acceleration: CPU - Scene: Bedroom

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.006, N = 3



IndigoBench 4.4

Acceleration: CPU - Scene: Supercar

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.009, N = 3

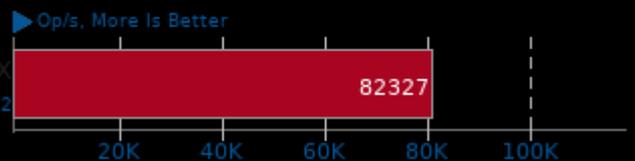


Apache Cassandra 4.0

Test: Reads

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1616.28, N = 12



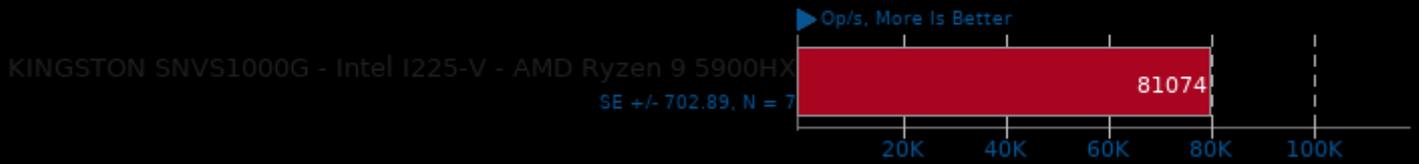
Apache Cassandra 4.0

Test: Writes



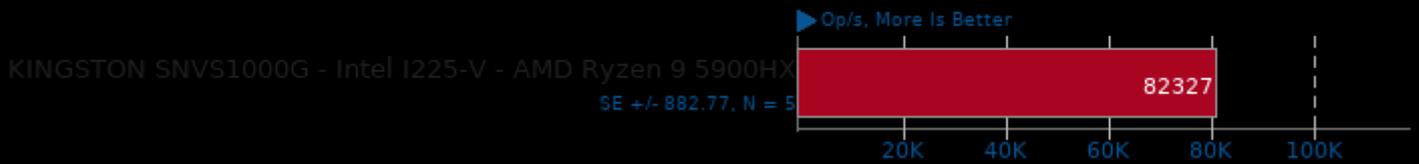
Apache Cassandra 4.0

Test: Mixed 1:1



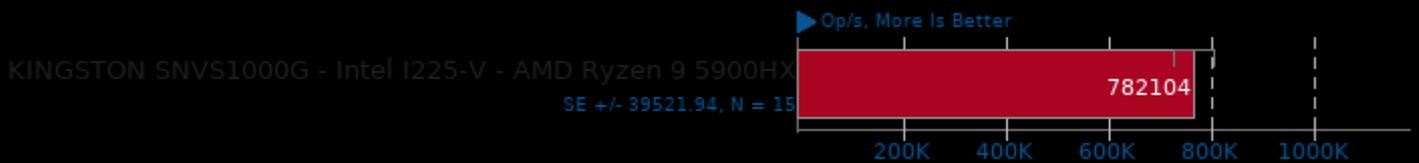
Apache Cassandra 4.0

Test: Mixed 1:3



Facebook RocksDB 6.22.1

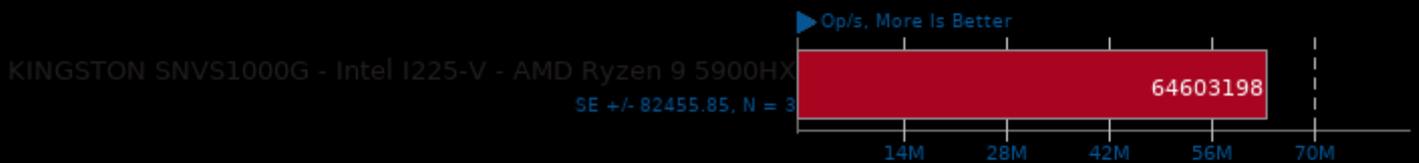
Test: Random Fill



1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

Facebook RocksDB 6.22.1

Test: Random Read



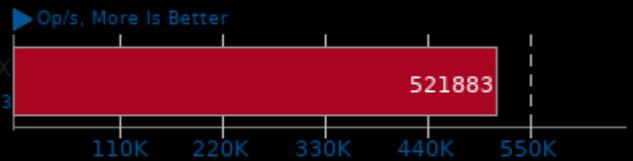
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

Facebook RocksDB 6.22.1

Test: Update Random

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1982.73, N = 3



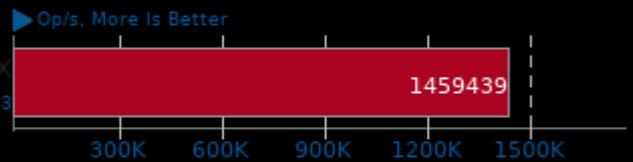
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

Facebook RocksDB 6.22.1

Test: Sequential Fill

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2494.84, N = 3



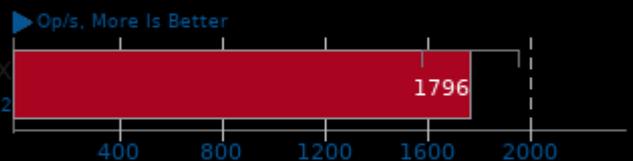
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

Facebook RocksDB 6.22.1

Test: Random Fill Sync

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 189.87, N = 12



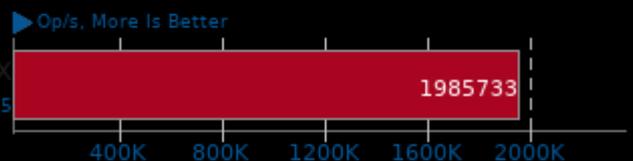
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

Facebook RocksDB 6.22.1

Test: Read While Writing

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 14263.10, N = 15



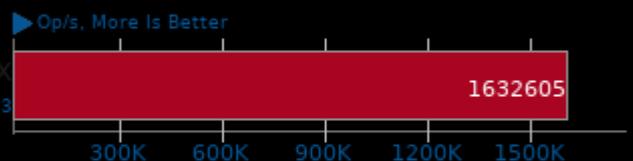
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

Facebook RocksDB 6.22.1

Test: Read Random Write Random

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

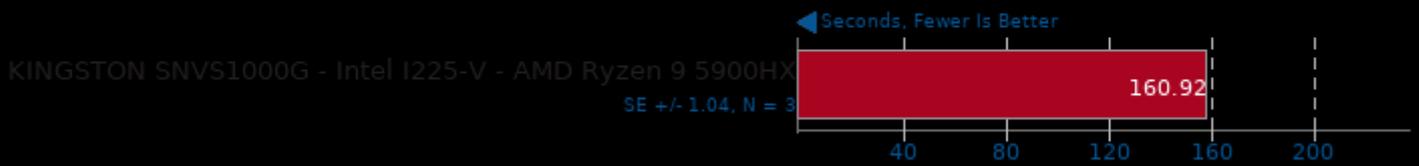
SE +/- 14383.25, N = 3



1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread

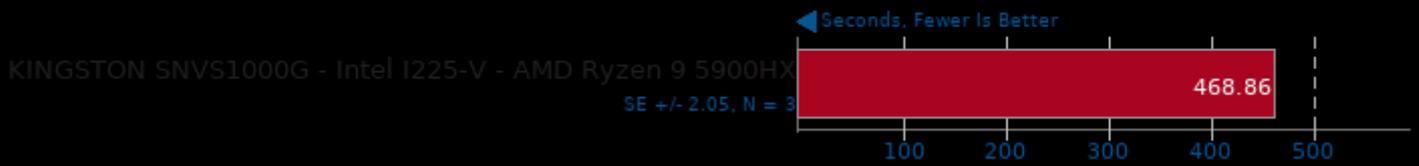
Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



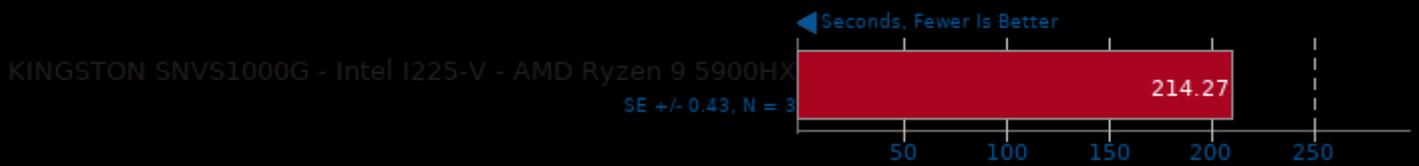
Blender 2.92

Blend File: Classroom - Compute: CPU-Only



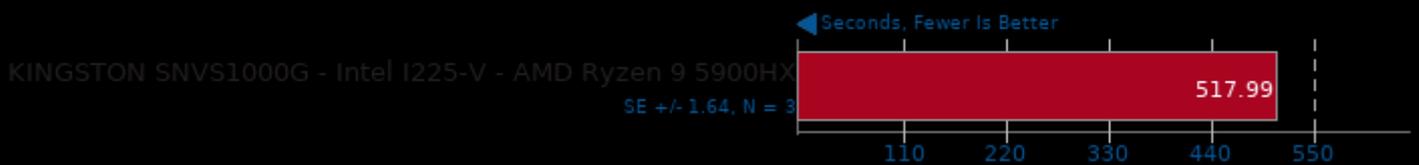
Blender 2.92

Blend File: Fishy Cat - Compute: CPU-Only



Blender 2.92

Blend File: Pabellon Barcelona - Compute: CPU-Only



Xsbench 2017-07-06



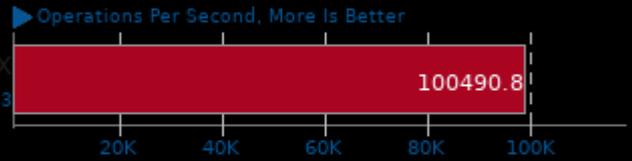
1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -lm

Memcached mcperf 1.6.9

Method: Add - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 172.05, N = 3



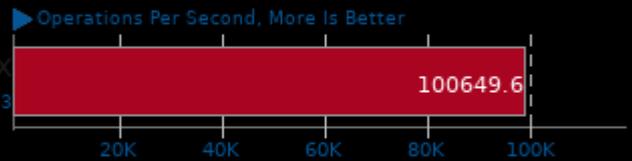
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Add - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 376.92, N = 3



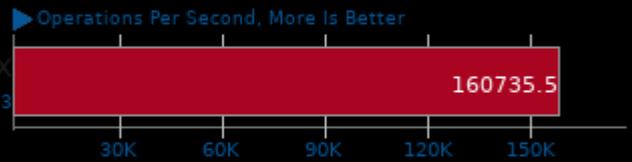
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 380.94, N = 3



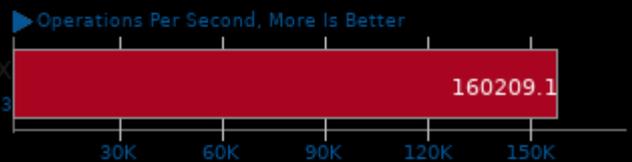
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 516.86, N = 3



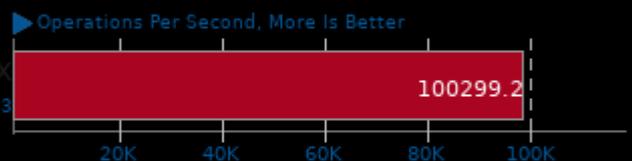
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 291.55, N = 3



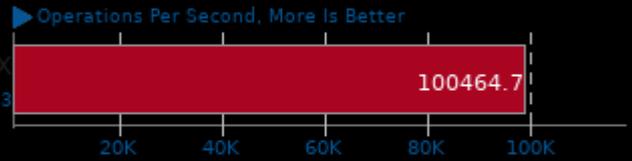
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 199.47, N = 3



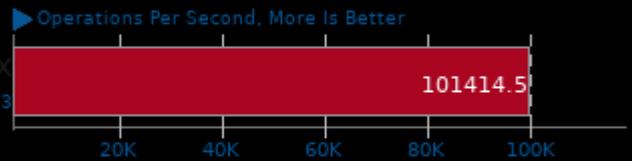
1. (CC) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Add - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 140.13, N = 3



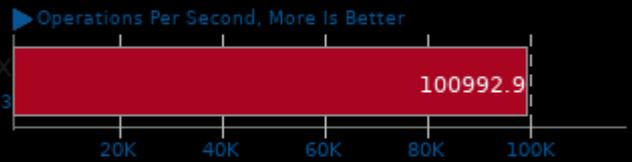
1. (CC) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Add - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 210.03, N = 3



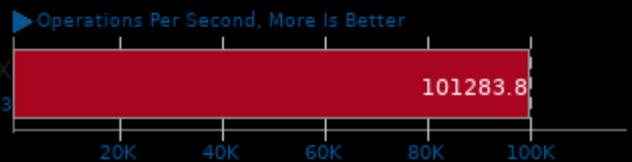
1. (CC) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Add - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 222.52, N = 3



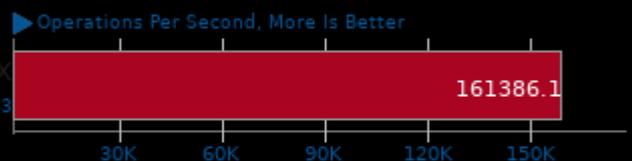
1. (CC) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 211.50, N = 3



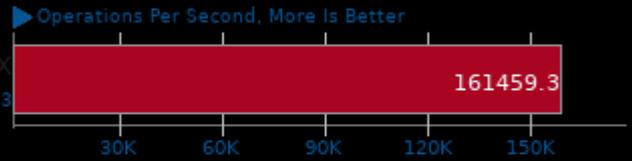
1. (CC) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 133.65, N = 3



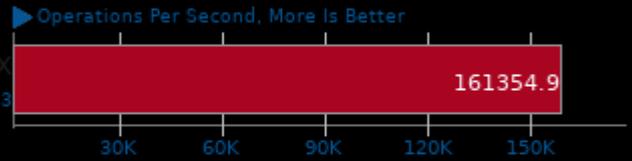
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 121.98, N = 3



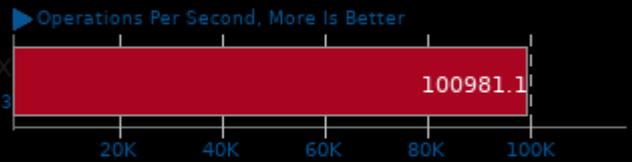
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 174.03, N = 3



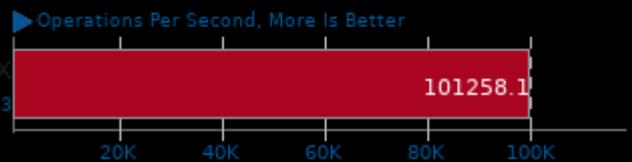
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 150.01, N = 3



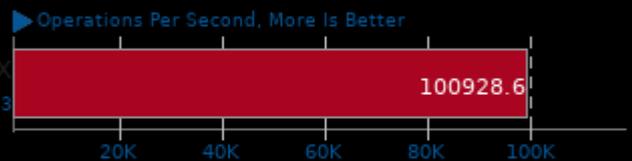
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 209.38, N = 3



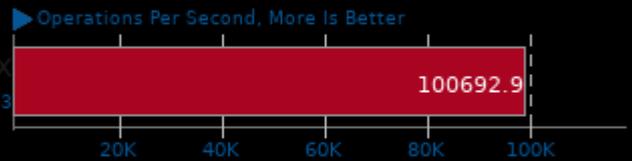
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Add - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 443.03, N = 3



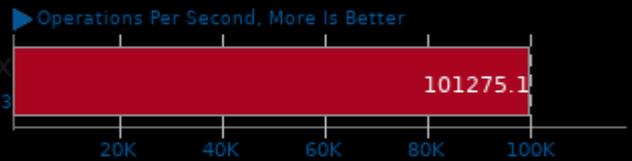
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Add - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 217.13, N = 3



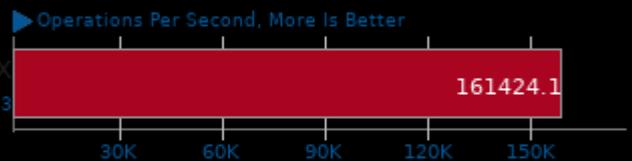
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 339.02, N = 3



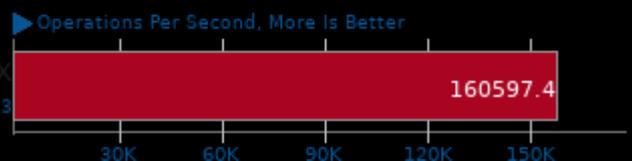
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Get - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 774.66, N = 3



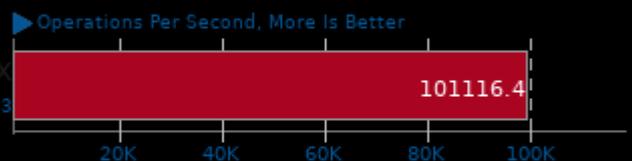
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 101.50, N = 3



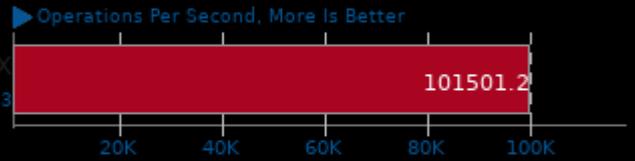
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Set - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 171.17, N = 3



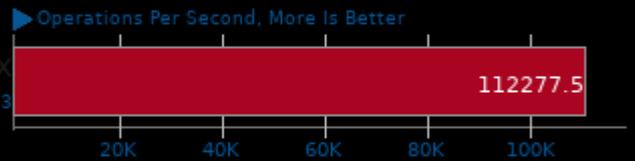
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 315.61, N = 3



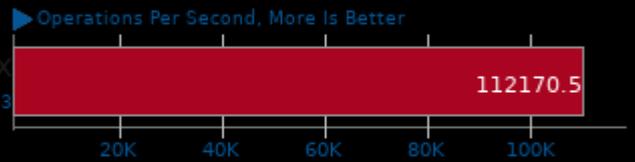
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 438.26, N = 3



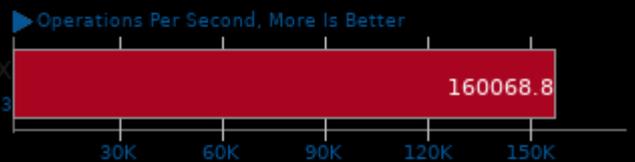
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 557.60, N = 3



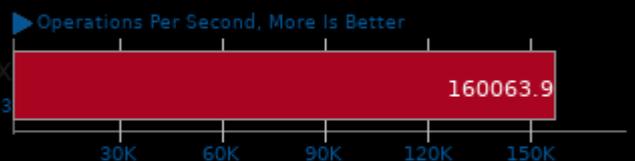
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 188.34, N = 3



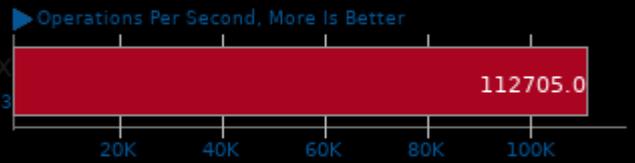
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 381.14, N = 3



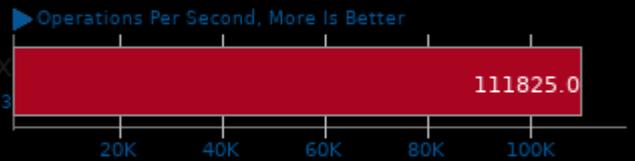
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 818.79, N = 3



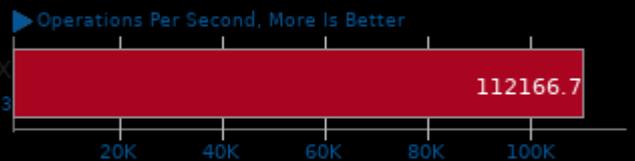
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 298.61, N = 3



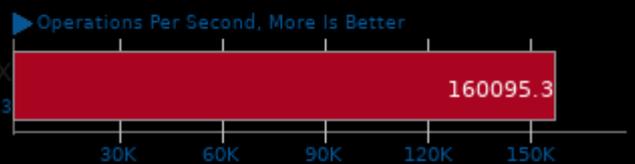
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 138.17, N = 3



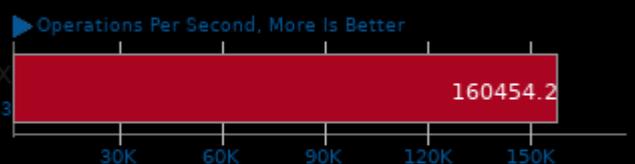
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 369.53, N = 3



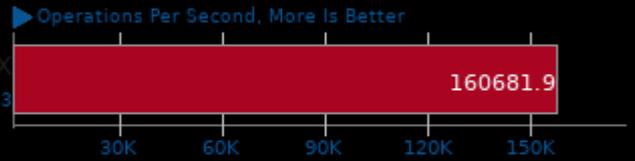
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 121.69, N = 3



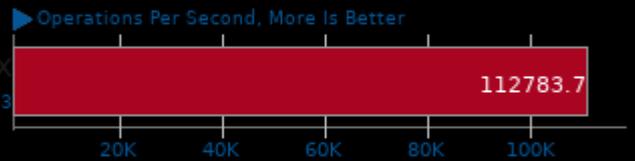
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 262.40, N = 3



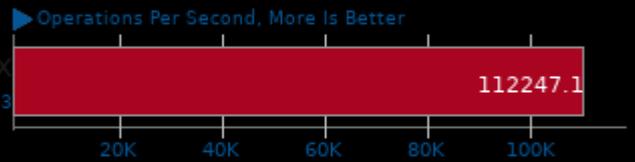
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 496.54, N = 3



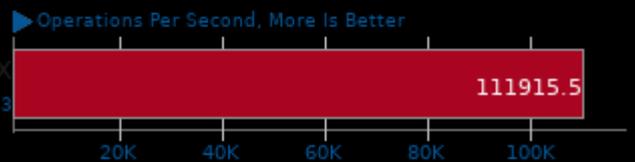
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 264.48, N = 3



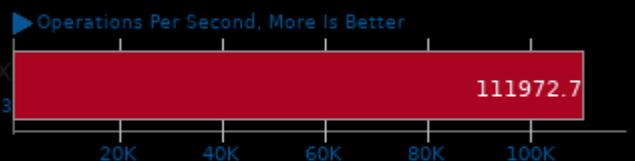
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 4

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 160.36, N = 3



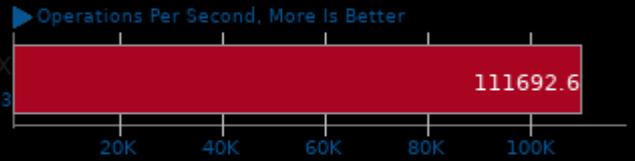
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 319.81, N = 3



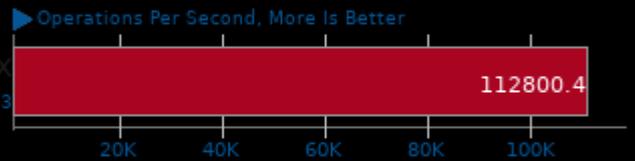
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Append - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 131.37, N = 3



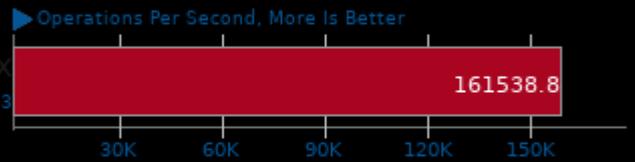
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 229.09, N = 3



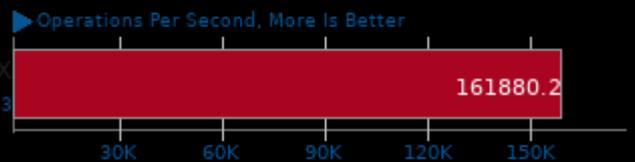
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Delete - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 380.50, N = 3



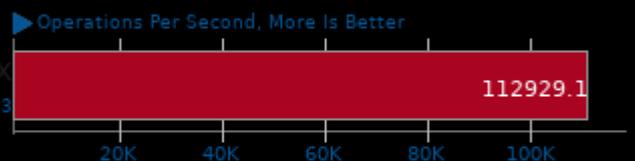
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 465.71, N = 3



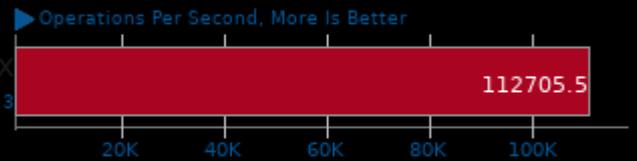
1, (C) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 186.65, N = 3



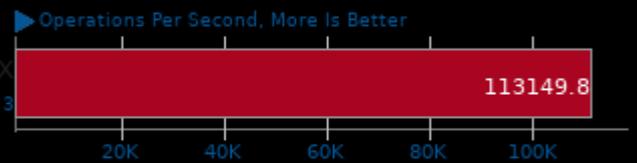
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 290.99, N = 3



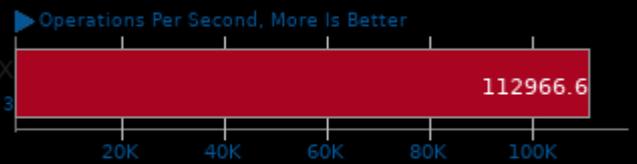
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 16

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 371.66, N = 3



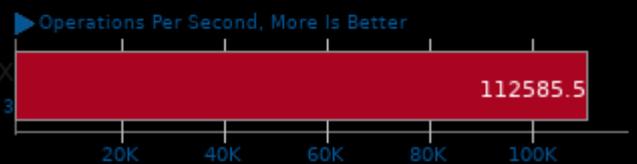
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 32

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 52.54, N = 3



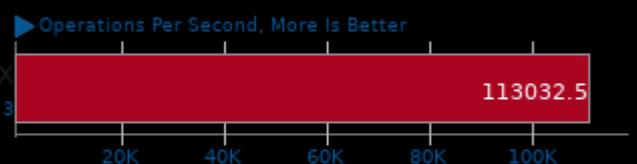
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 64

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 427.33, N = 3



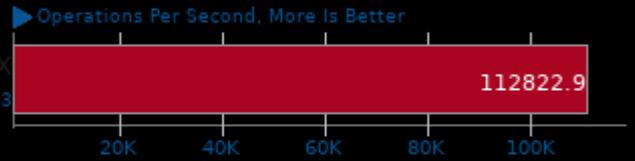
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 416.97, N = 3



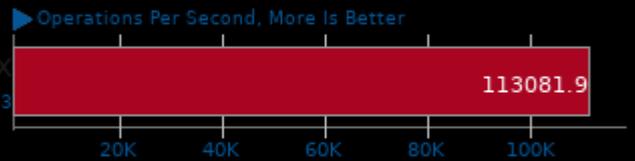
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Prepend - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 217.01, N = 3



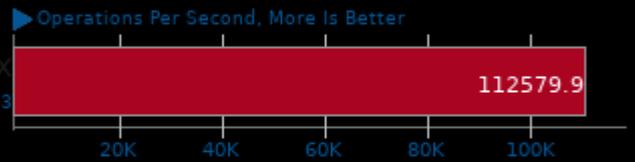
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 128

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 451.13, N = 3



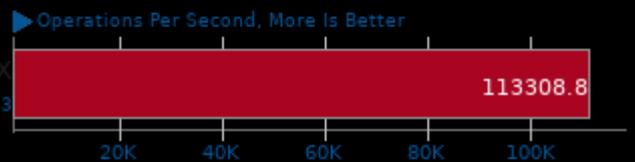
1, (CO) gcc options: -O2 -lm -rdynamic

Memcached mcperf 1.6.9

Method: Replace - Connections: 256

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 229.62, N = 3



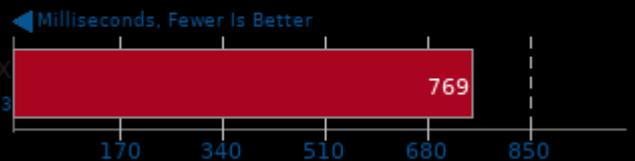
1, (CO) gcc options: -O2 -lm -rdynamic

PyBench 2018-02-16

Total For Average Test Times

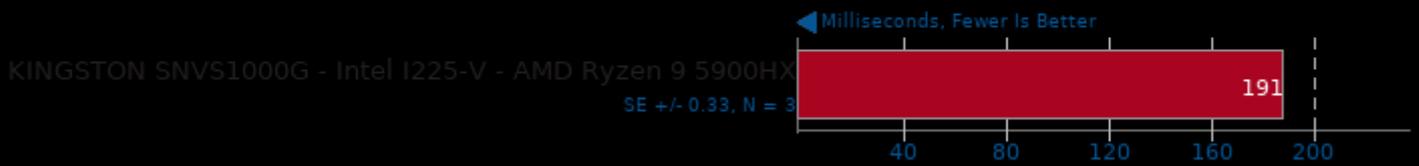
KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 4.58, N = 3



PyPerformance 1.0.0

Benchmark: go



PyPerformance 1.0.0

Benchmark: 2to3



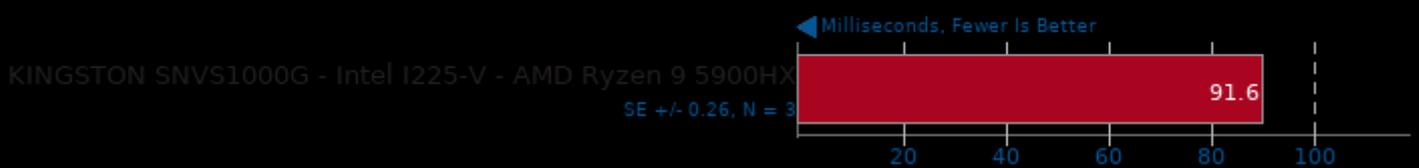
PyPerformance 1.0.0

Benchmark: chaos



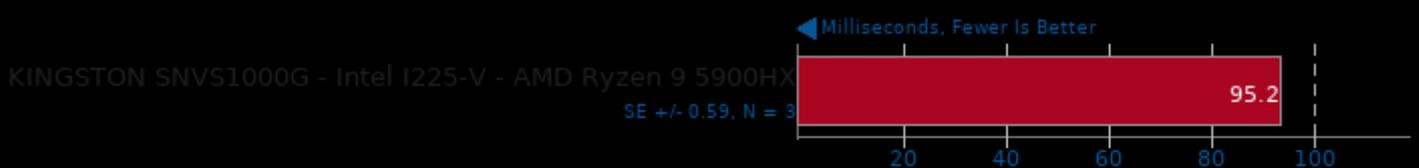
PyPerformance 1.0.0

Benchmark: float



PyPerformance 1.0.0

Benchmark: nbody



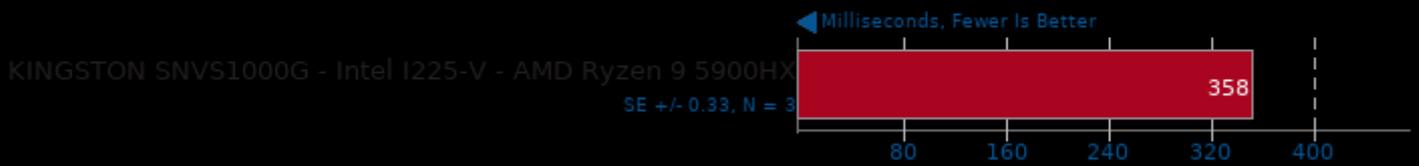
PyPerformance 1.0.0

Benchmark: pathlib



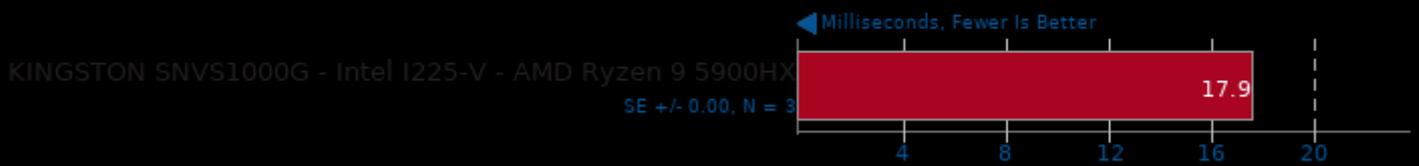
PyPerformance 1.0.0

Benchmark: raytrace



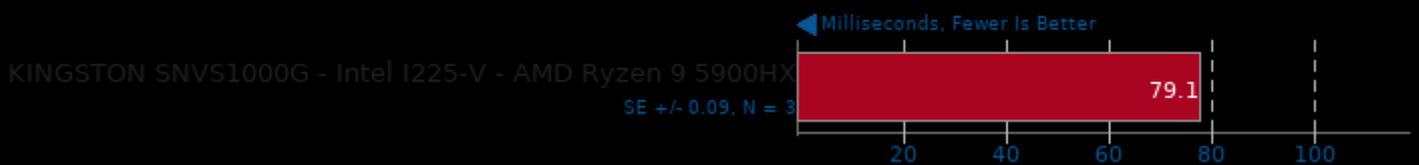
PyPerformance 1.0.0

Benchmark: json_loads



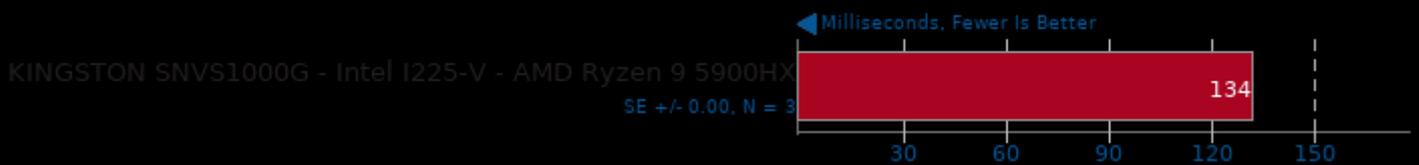
PyPerformance 1.0.0

Benchmark: crypto_pyaes



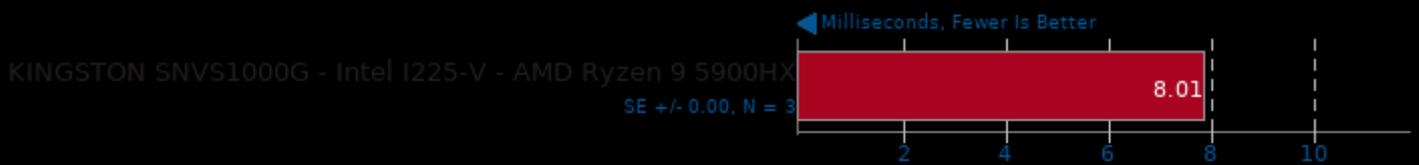
PyPerformance 1.0.0

Benchmark: regex_compile



PyPerformance 1.0.0

Benchmark: python_startup



PyPerformance 1.0.0

Benchmark: django_template

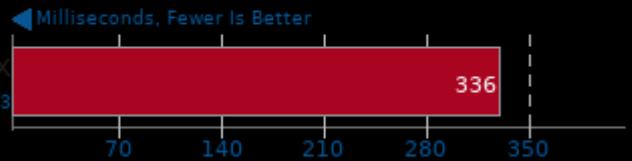


PyPerformance 1.0.0

Benchmark: pickle_pure_python

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.58, N = 3



nginx 1.21.1

Concurrent Requests: 1

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 893.81, N = 3



1, (CC) gcc options: -lcrypt -lz -O3 -march=native

nginx 1.21.1

Concurrent Requests: 20

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2644.73, N = 3



1, (CC) gcc options: -lcrypt -lz -O3 -march=native

nginx 1.21.1

Concurrent Requests: 100

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 444.69, N = 3



1, (CC) gcc options: -lcrypt -lz -O3 -march=native

nginx 1.21.1

Concurrent Requests: 200

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2886.90, N = 3



1, (CC) gcc options: -lcrypt -lz -O3 -march=native

nginx 1.21.1

Concurrent Requests: 500

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 4144.64, N = 3



1, (CC) gcc options: -lccrypt -lz -O3 -march=native

nginx 1.21.1

Concurrent Requests: 1000

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 2398.69, N = 3



1, (CC) gcc options: -lccrypt -lz -O3 -march=native

Apache HBase 2.2.3

Test: Increment - Clients: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 127.91, N = 15



Apache HBase 2.2.3

Test: Increment - Clients: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 1.04, N = 15

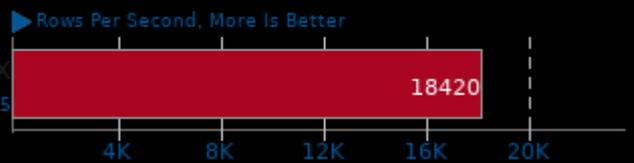


Apache HBase 2.2.3

Test: Increment - Clients: 4

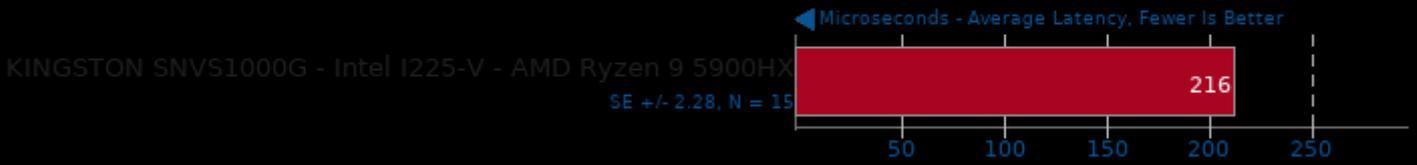
KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 187.30, N = 15



Apache HBase 2.2.3

Test: Increment - Clients: 4



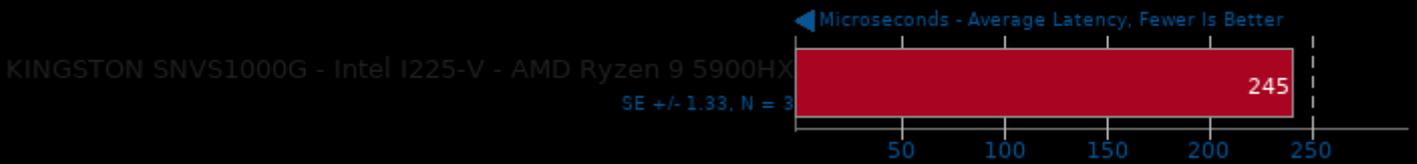
Apache HBase 2.2.3

Test: Increment - Clients: 16



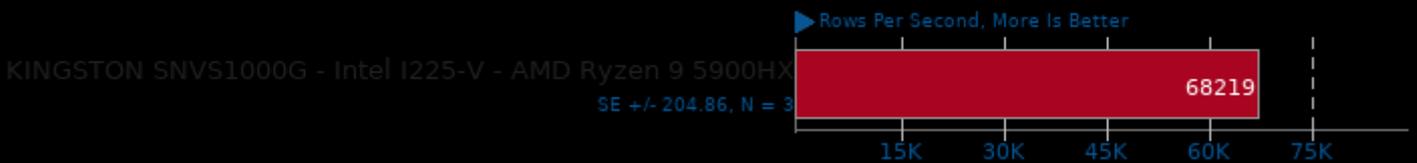
Apache HBase 2.2.3

Test: Increment - Clients: 16



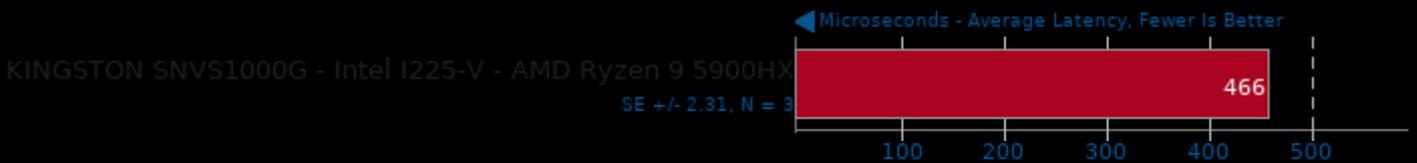
Apache HBase 2.2.3

Test: Increment - Clients: 32



Apache HBase 2.2.3

Test: Increment - Clients: 32



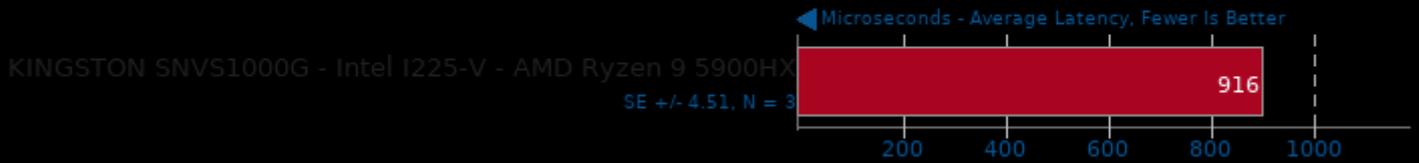
Apache HBase 2.2.3

Test: Increment - Clients: 64



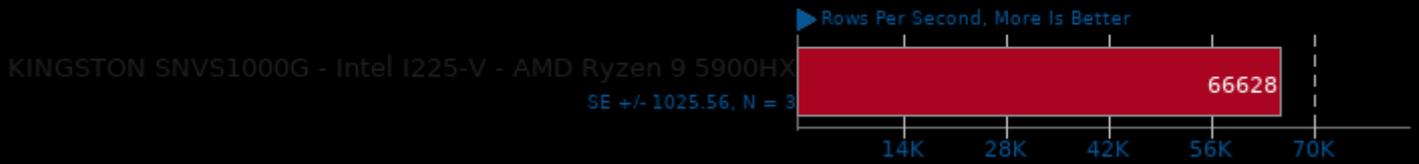
Apache HBase 2.2.3

Test: Increment - Clients: 64



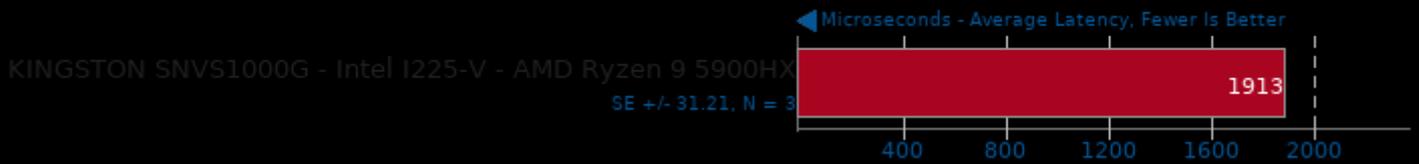
Apache HBase 2.2.3

Test: Increment - Clients: 128



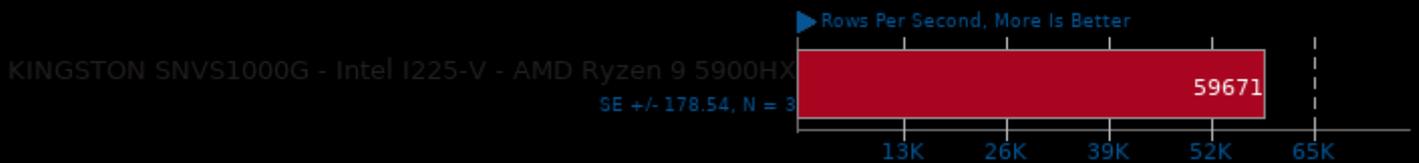
Apache HBase 2.2.3

Test: Increment - Clients: 128



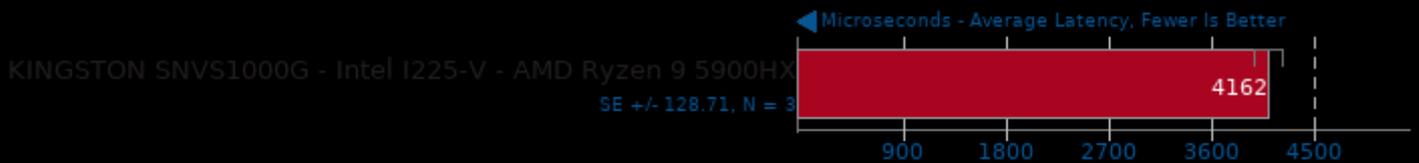
Apache HBase 2.2.3

Test: Increment - Clients: 256



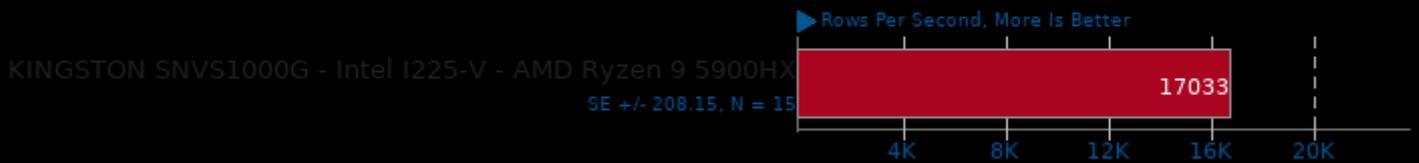
Apache HBase 2.2.3

Test: Increment - Clients: 256



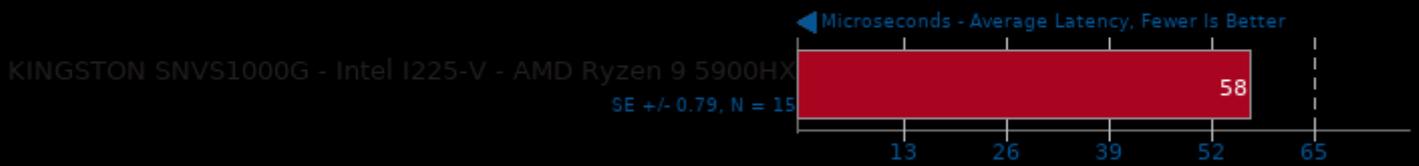
Apache HBase 2.2.3

Test: Random Read - Clients: 1



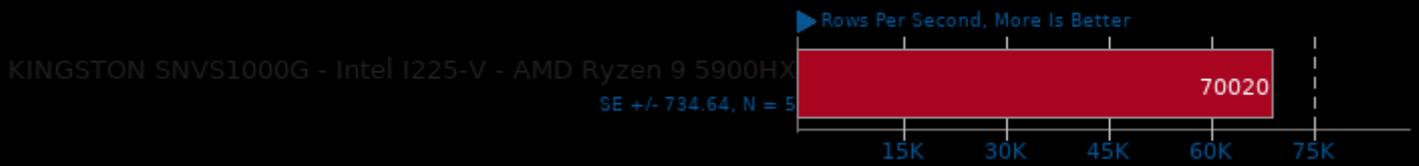
Apache HBase 2.2.3

Test: Random Read - Clients: 1



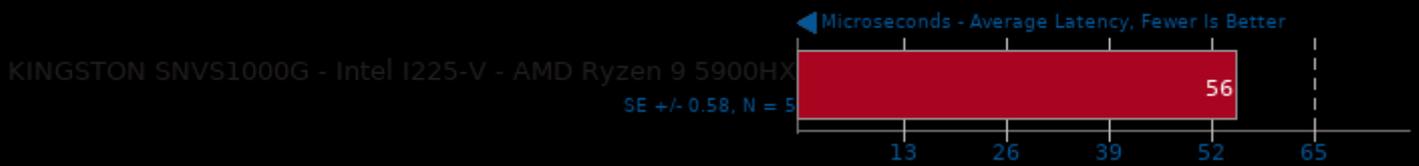
Apache HBase 2.2.3

Test: Random Read - Clients: 4



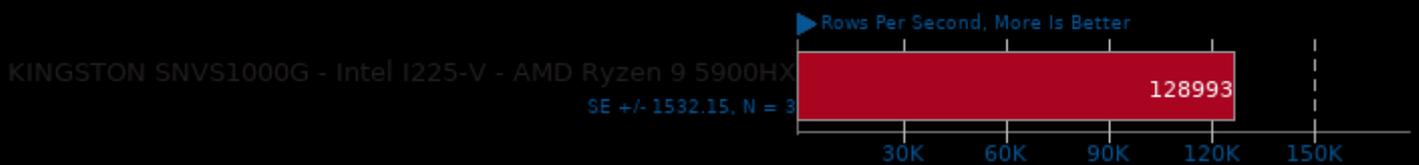
Apache HBase 2.2.3

Test: Random Read - Clients: 4



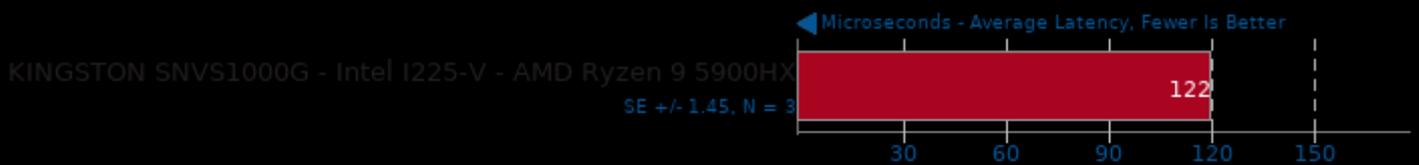
Apache HBase 2.2.3

Test: Random Read - Clients: 16



Apache HBase 2.2.3

Test: Random Read - Clients: 16



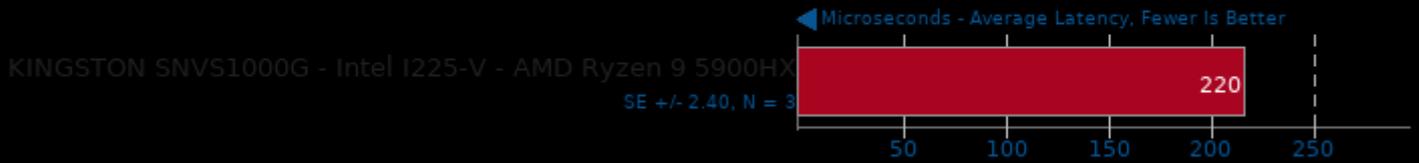
Apache HBase 2.2.3

Test: Random Read - Clients: 32



Apache HBase 2.2.3

Test: Random Read - Clients: 32



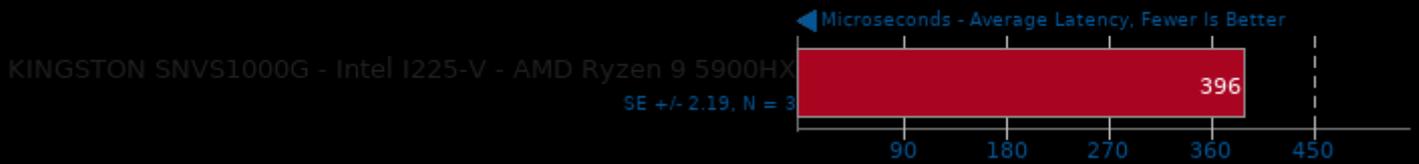
Apache HBase 2.2.3

Test: Random Read - Clients: 64



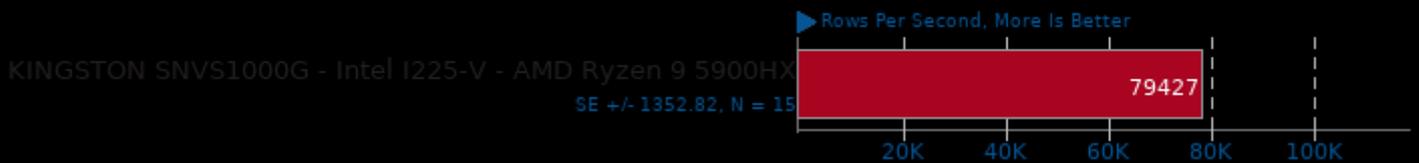
Apache HBase 2.2.3

Test: Random Read - Clients: 64



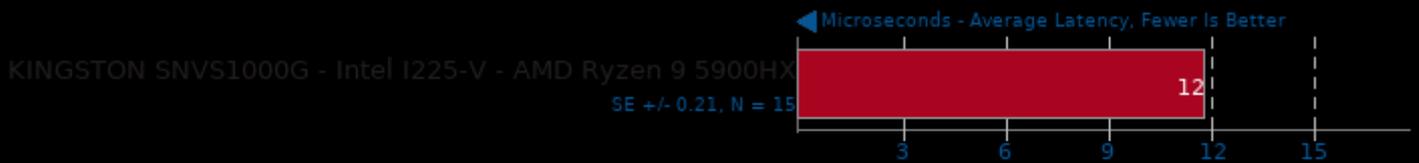
Apache HBase 2.2.3

Test: Random Write - Clients: 1



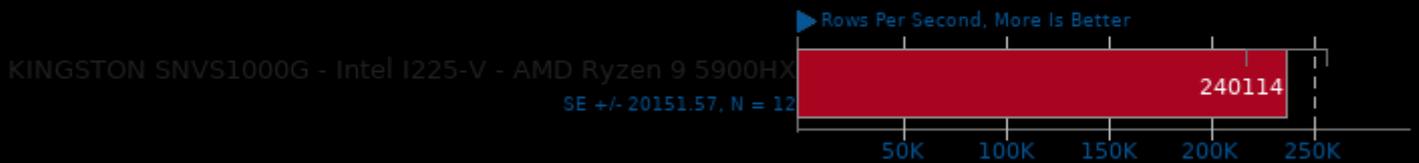
Apache HBase 2.2.3

Test: Random Write - Clients: 1



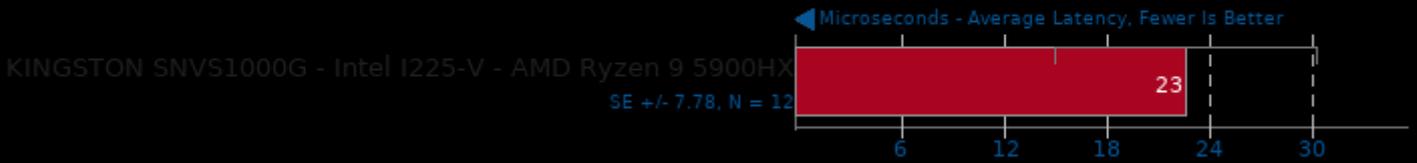
Apache HBase 2.2.3

Test: Random Write - Clients: 4



Apache HBase 2.2.3

Test: Random Write - Clients: 4



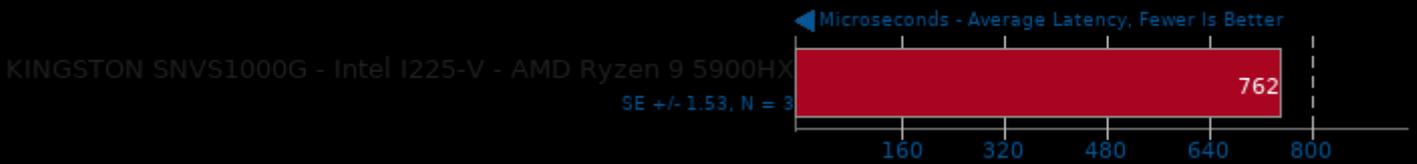
Apache HBase 2.2.3

Test: Random Read - Clients: 128



Apache HBase 2.2.3

Test: Random Read - Clients: 128



Apache HBase 2.2.3

Test: Random Read - Clients: 256



Apache HBase 2.2.3

Test: Random Read - Clients: 256



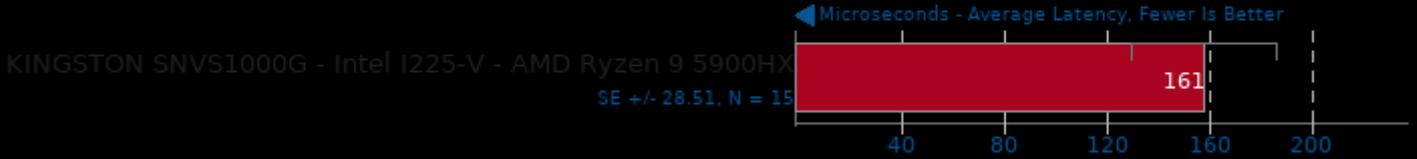
Apache HBase 2.2.3

Test: Random Write - Clients: 16



Apache HBase 2.2.3

Test: Random Write - Clients: 16



Apache HBase 2.2.3

Test: Random Write - Clients: 32



Apache HBase 2.2.3

Test: Random Write - Clients: 32



Apache HBase 2.2.3

Test: Random Write - Clients: 64



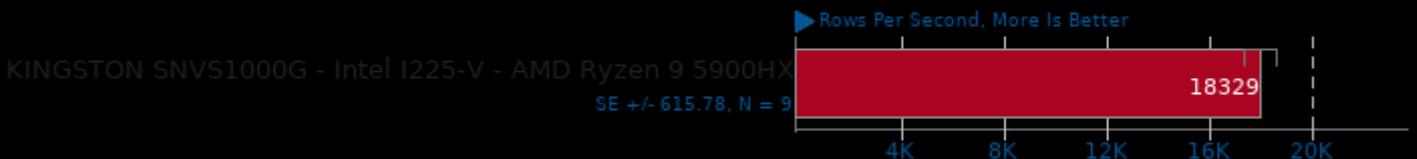
Apache HBase 2.2.3

Test: Random Write - Clients: 64



Apache HBase 2.2.3

Test: Random Write - Clients: 128



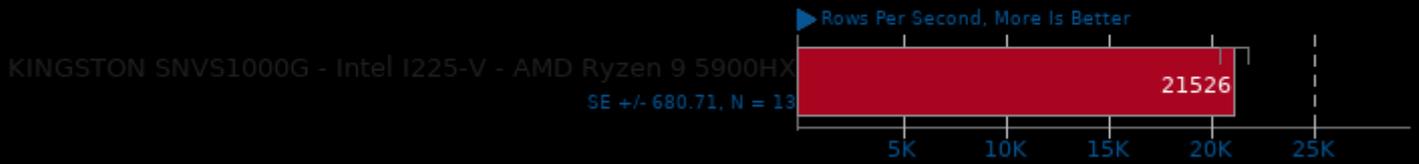
Apache HBase 2.2.3

Test: Random Write - Clients: 128



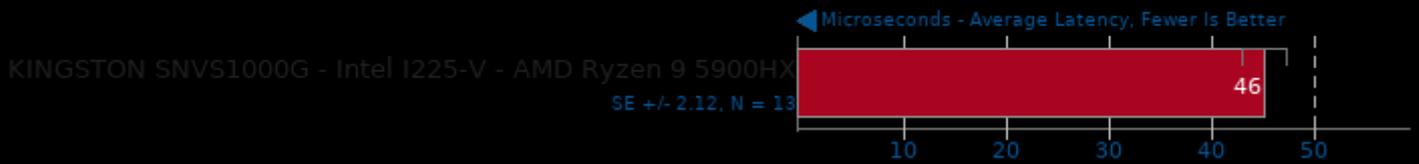
Apache HBase 2.2.3

Test: Sequential Read - Clients: 1



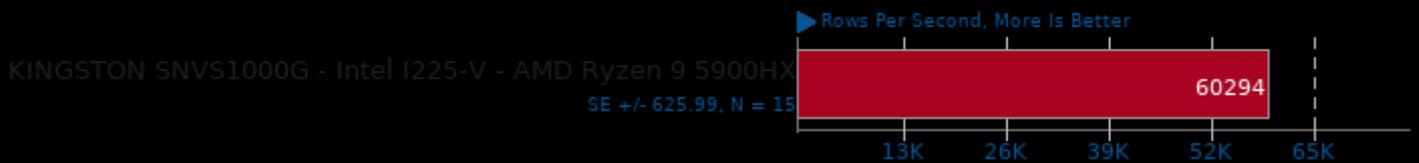
Apache HBase 2.2.3

Test: Sequential Read - Clients: 1



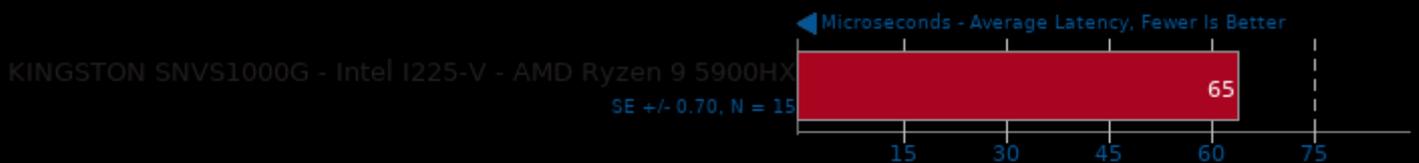
Apache HBase 2.2.3

Test: Sequential Read - Clients: 4



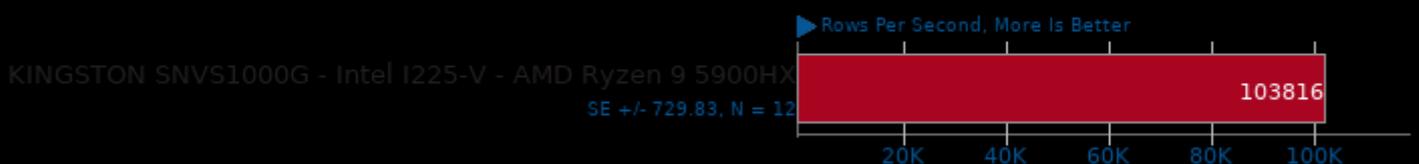
Apache HBase 2.2.3

Test: Sequential Read - Clients: 4



Apache HBase 2.2.3

Test: Sequential Read - Clients: 16



Apache HBase 2.2.3

Test: Sequential Read - Clients: 16

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1.10, N = 12

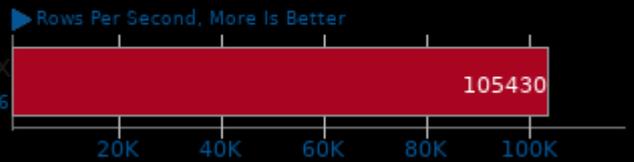


Apache HBase 2.2.3

Test: Sequential Read - Clients: 32

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 998.79, N = 6



Apache HBase 2.2.3

Test: Sequential Read - Clients: 32

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2.99, N = 6



Apache HBase 2.2.3

Test: Sequential Read - Clients: 64

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 1226.12, N = 5



Apache HBase 2.2.3

Test: Sequential Read - Clients: 64

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 5.36, N = 5

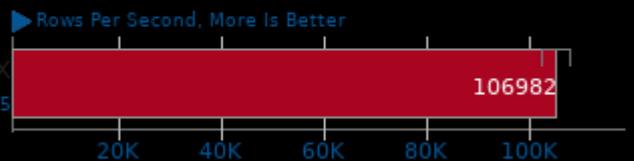


Apache HBase 2.2.3

Test: Sequential Write - Clients: 1

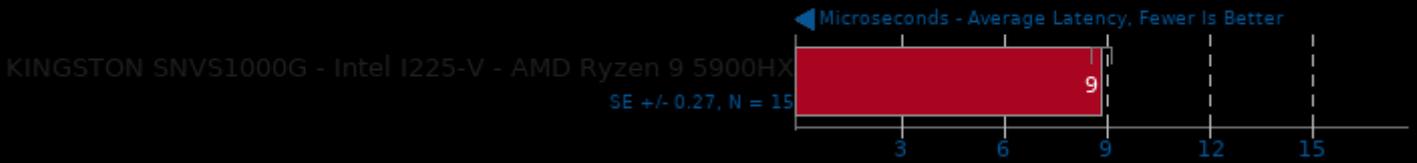
KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2756.33, N = 15



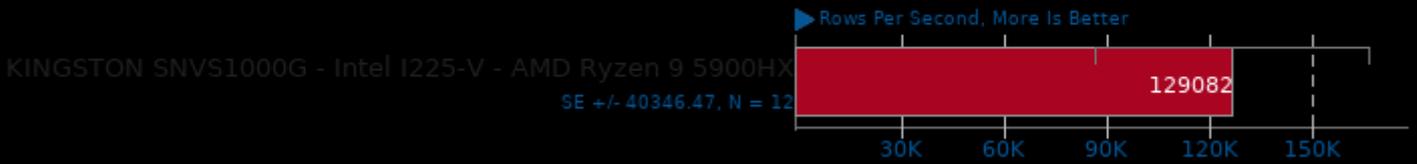
Apache HBase 2.2.3

Test: Sequential Write - Clients: 1



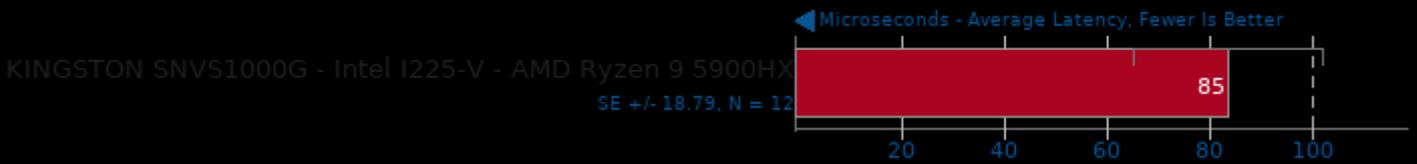
Apache HBase 2.2.3

Test: Sequential Write - Clients: 4



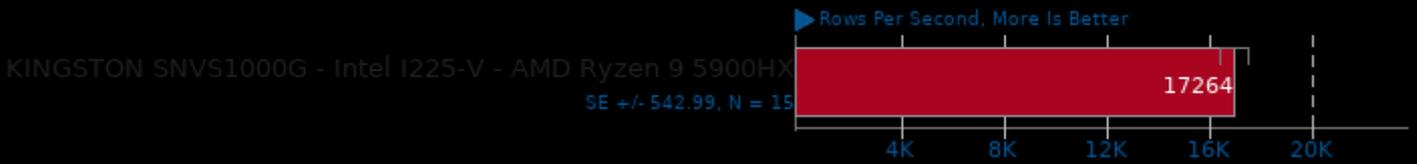
Apache HBase 2.2.3

Test: Sequential Write - Clients: 4



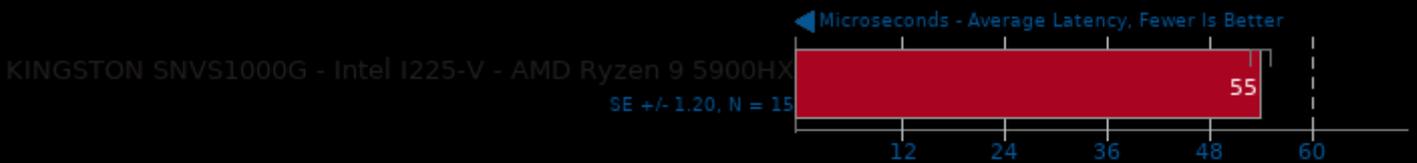
Apache HBase 2.2.3

Test: Async Random Read - Clients: 1



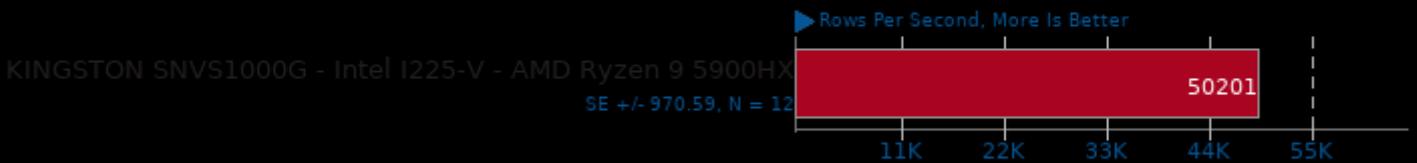
Apache HBase 2.2.3

Test: Async Random Read - Clients: 1



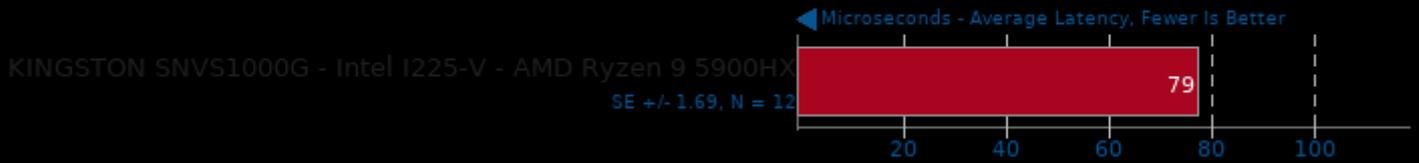
Apache HBase 2.2.3

Test: Async Random Read - Clients: 4



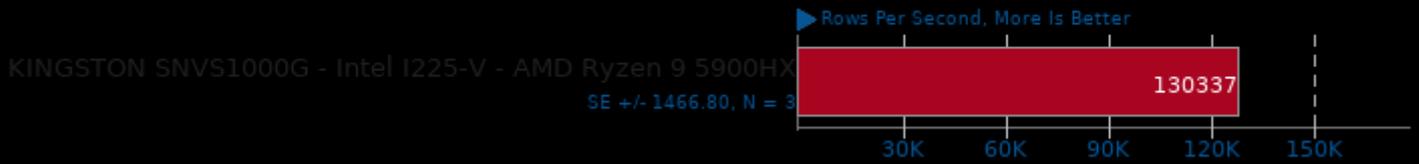
Apache HBase 2.2.3

Test: Async Random Read - Clients: 4



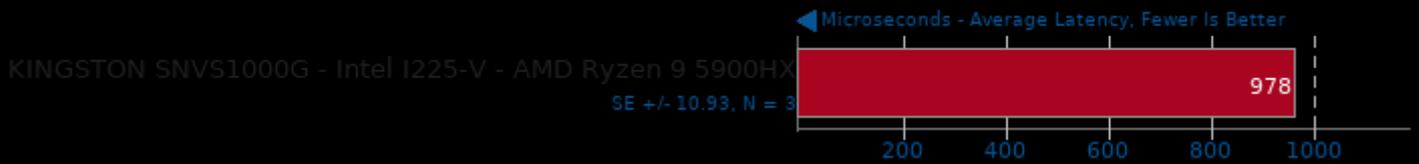
Apache HBase 2.2.3

Test: Sequential Read - Clients: 128



Apache HBase 2.2.3

Test: Sequential Read - Clients: 128



Apache HBase 2.2.3

Test: Sequential Read - Clients: 256



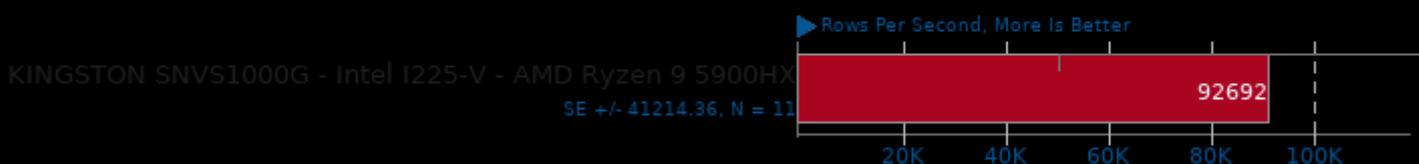
Apache HBase 2.2.3

Test: Sequential Read - Clients: 256



Apache HBase 2.2.3

Test: Sequential Write - Clients: 16



Apache HBase 2.2.3

Test: Sequential Write - Clients: 16

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 84.30, N = 11

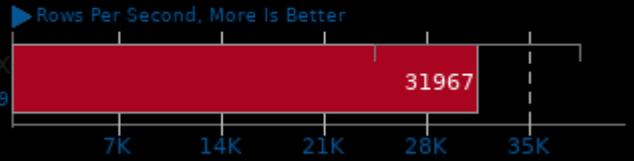


Apache HBase 2.2.3

Test: Sequential Write - Clients: 32

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 7021.70, N = 9



Apache HBase 2.2.3

Test: Sequential Write - Clients: 32

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 110.99, N = 9



Apache HBase 2.2.3

Test: Sequential Write - Clients: 64

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 719.41, N = 8

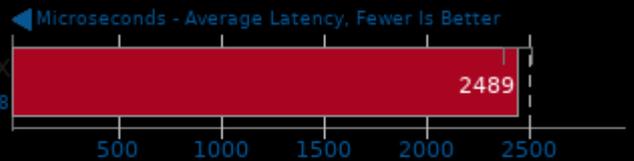


Apache HBase 2.2.3

Test: Sequential Write - Clients: 64

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 70.03, N = 8

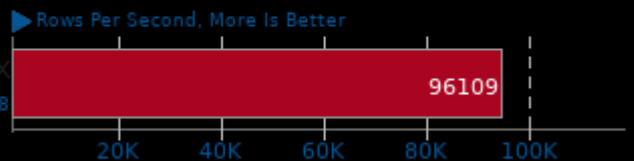


Apache HBase 2.2.3

Test: Async Random Read - Clients: 16

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 806.26, N = 8



Apache HBase 2.2.3

Test: Async Random Read - Clients: 16



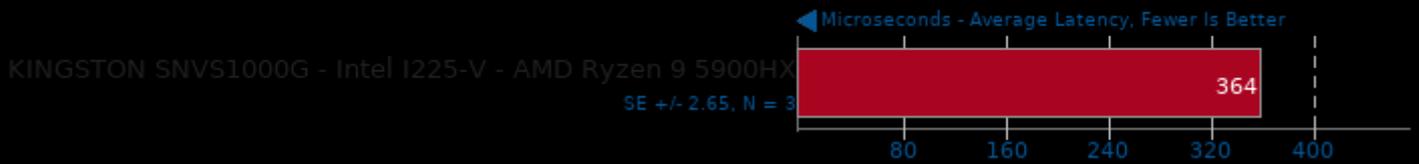
Apache HBase 2.2.3

Test: Async Random Read - Clients: 32



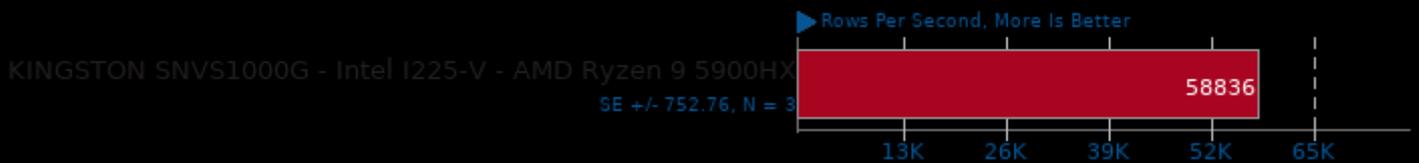
Apache HBase 2.2.3

Test: Async Random Read - Clients: 32



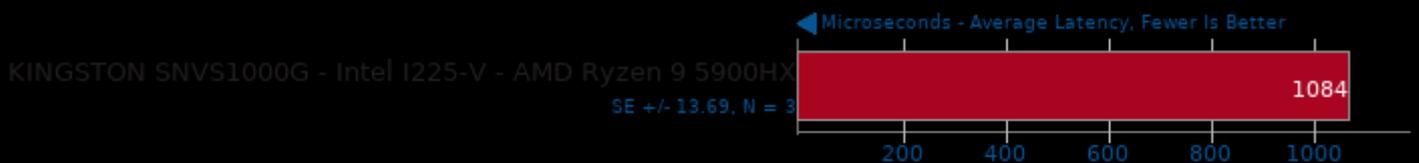
Apache HBase 2.2.3

Test: Async Random Read - Clients: 64



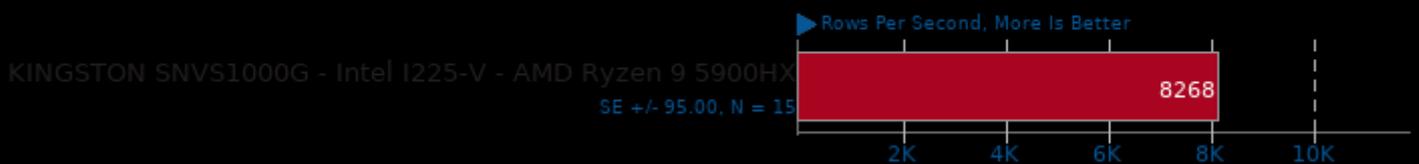
Apache HBase 2.2.3

Test: Async Random Read - Clients: 64



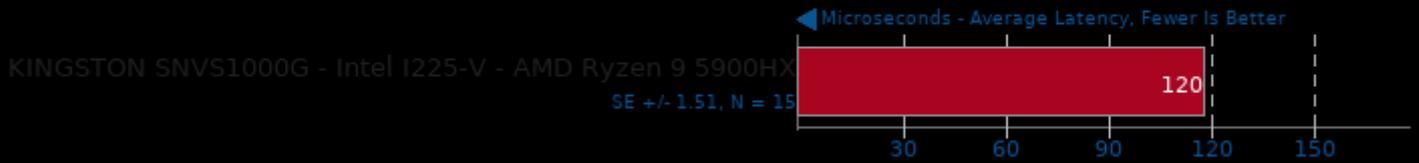
Apache HBase 2.2.3

Test: Async Random Write - Clients: 1



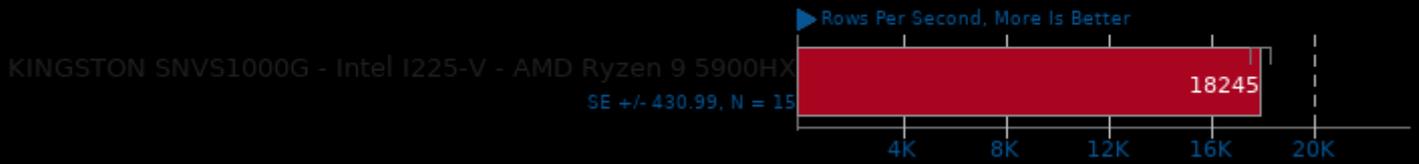
Apache HBase 2.2.3

Test: Async Random Write - Clients: 1



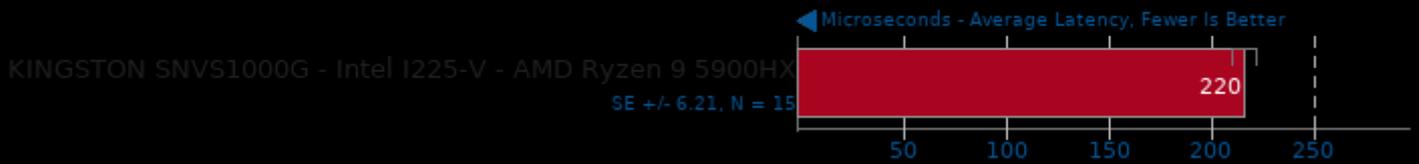
Apache HBase 2.2.3

Test: Async Random Write - Clients: 4



Apache HBase 2.2.3

Test: Async Random Write - Clients: 4



Apache HBase 2.2.3

Test: Sequential Write - Clients: 128



Apache HBase 2.2.3

Test: Sequential Write - Clients: 128



Apache HBase 2.2.3

Test: Sequential Write - Clients: 256



Apache HBase 2.2.3

Test: Sequential Write - Clients: 256



Apache HBase 2.2.3

Test: Async Random Read - Clients: 128



Apache HBase 2.2.3

Test: Async Random Read - Clients: 128



Apache HBase 2.2.3

Test: Async Random Read - Clients: 256



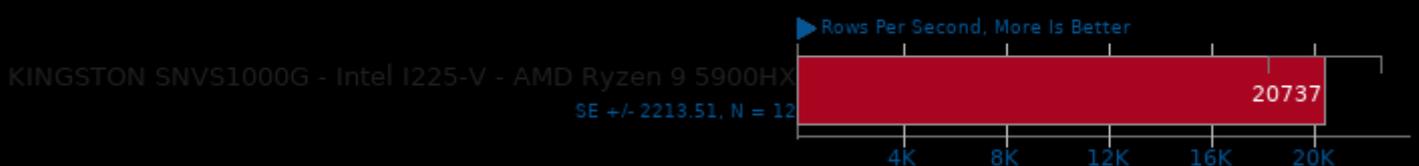
Apache HBase 2.2.3

Test: Async Random Read - Clients: 256



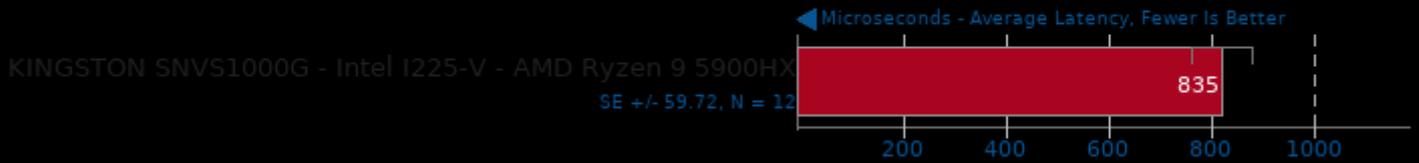
Apache HBase 2.2.3

Test: Async Random Write - Clients: 16



Apache HBase 2.2.3

Test: Async Random Write - Clients: 16



Apache HBase 2.2.3

Test: Async Random Write - Clients: 32



Apache HBase 2.2.3

Test: Async Random Write - Clients: 32



Apache HBase 2.2.3

Test: Async Random Write - Clients: 64



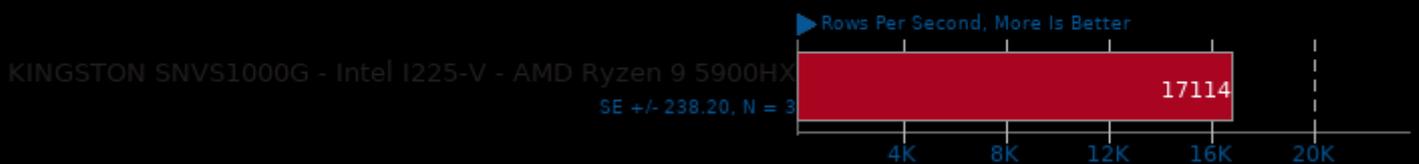
Apache HBase 2.2.3

Test: Async Random Write - Clients: 64



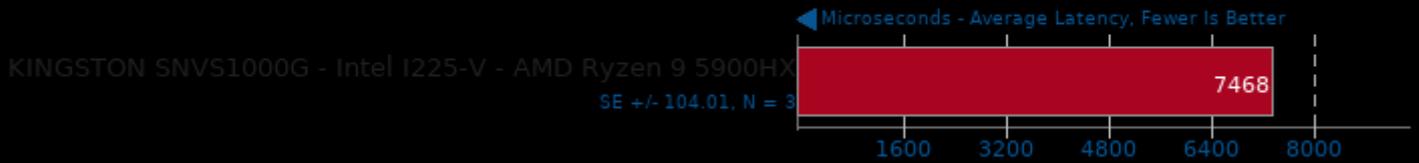
Apache HBase 2.2.3

Test: Async Random Write - Clients: 128



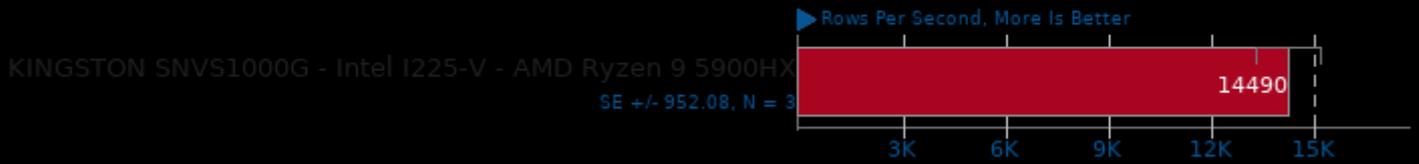
Apache HBase 2.2.3

Test: Async Random Write - Clients: 128



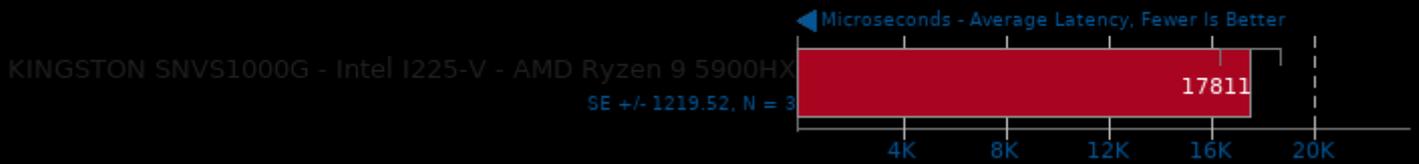
Apache HBase 2.2.3

Test: Async Random Write - Clients: 256



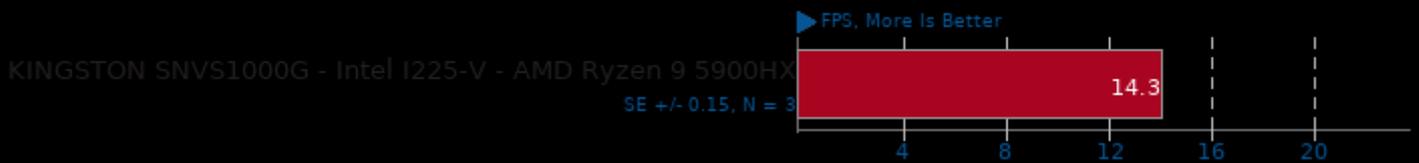
Apache HBase 2.2.3

Test: Async Random Write - Clients: 256



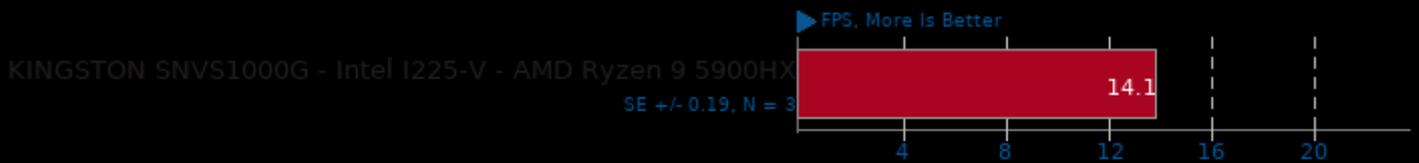
NeatBench 5

Acceleration: All



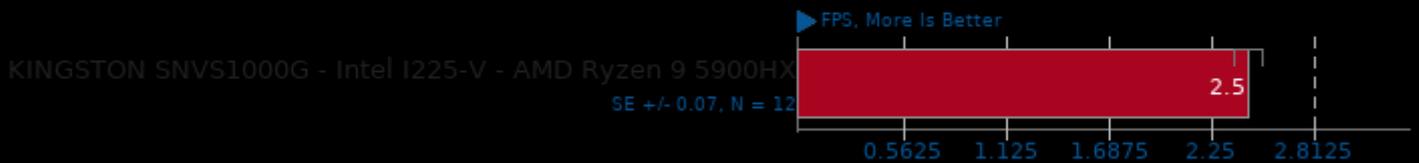
NeatBench 5

Acceleration: CPU



Natron 2.4

Input: Spaceship



Apache HTTP Server 2.4.48

Concurrent Requests: 1

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 104.51, N = 3



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 20

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 249.86, N = 3



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 100

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 582.87, N = 15



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 200

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

SE +/- 90.04, N = 3



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 500

KINGSTON SNVS1000G - Intel i225-V - AMD Ryzen 9 5900HX

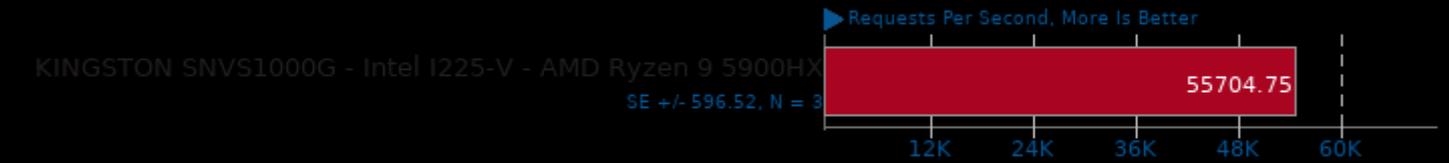
SE +/- 575.61, N = 6



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 1000



1. (CC) gcc options: -shared -fPIC -O2

Appleseed 2.0 Beta

Scene: Emily



Appleseed 2.0 Beta

Scene: Disney Material



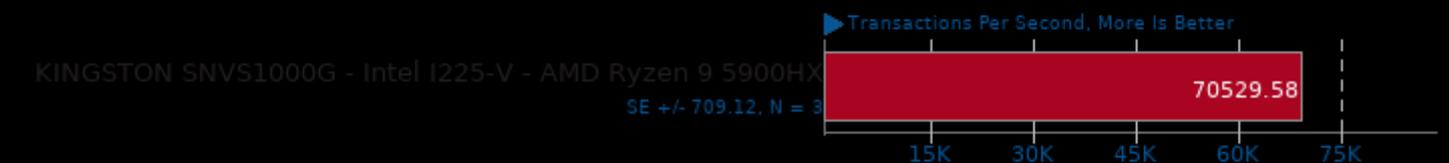
Appleseed 2.0 Beta

Scene: Material Tester



Apache Siege 2.4.29

Concurrent Users: 250



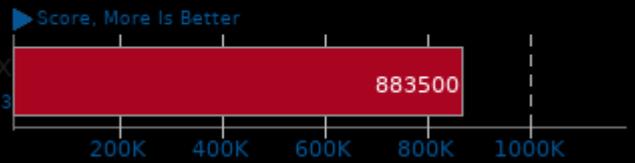
1. (CC) gcc options: -O2 -pthread -ldl -lssl -lcrypto

PHPBench 0.8.1

PHP Benchmark Suite

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 2094.67, N = 3

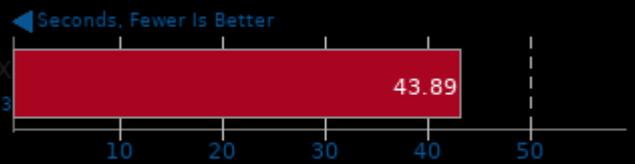


Git

Time To Complete Common Git Commands

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.03, N = 3



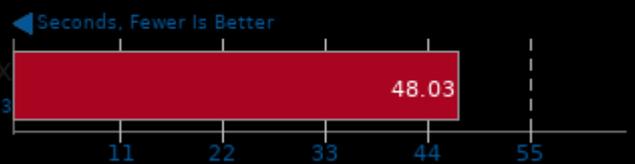
1. git version 2.32.0

Mlpack Benchmark

Benchmark: scikit_ica

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.03, N = 3

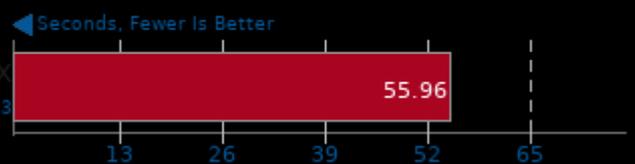


Mlpack Benchmark

Benchmark: scikit_qda

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.02, N = 3

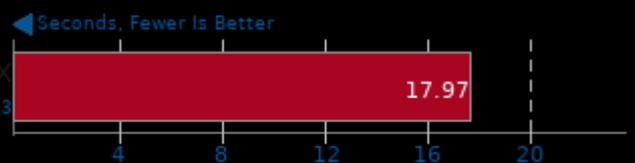


Mlpack Benchmark

Benchmark: scikit_svm

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.04, N = 3

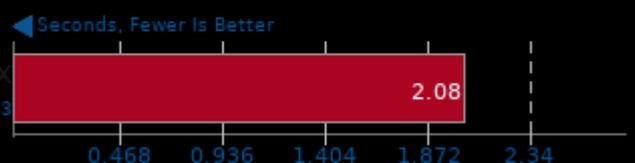


Mlpack Benchmark

Benchmark: scikit_linearridgeregression

KINGSTON SNVS1000G - Intel I225-V - AMD Ryzen 9 5900HX

SE +/- 0.00, N = 3



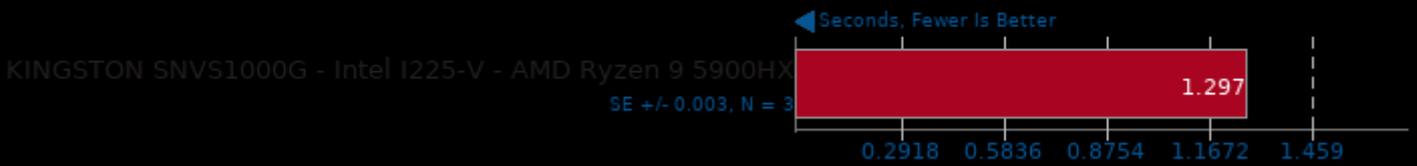
PHP Micro Benchmarks

Test: Zend bench

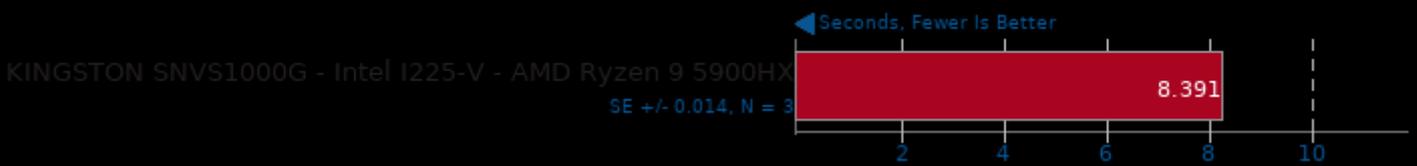


PHP Micro Benchmarks

Test: Zend micro_bench

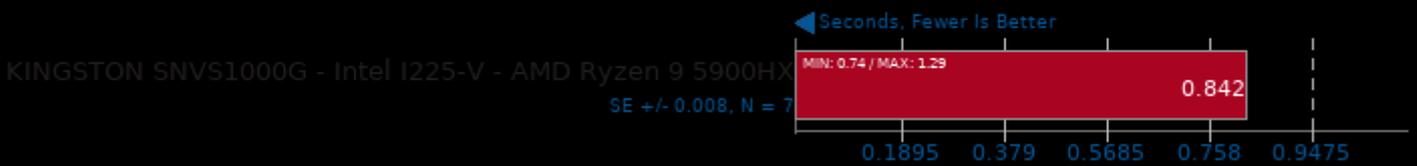


Scikit-Learn 0.22.1



Sunflow Rendering System 0.07.2

Global Illumination + Image Synthesis



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





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