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intel-core-i5-6200u-280ghz

Intel Core i5-6200U testing with a HP 8079 (N75 Ver. 01.18 BIOS) and Intel HD 520 3072MB on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

SAMSUNG MZNLN256

Intel Core i5-6200U

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

Intel HD 520

Intel Connection I219-V

Processor: Intel Core i5-6200U @ 2.80GHz (2 Cores / 4 Threads), Motherboard: HP 8079 (N75 Ver. 01.18 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 16384MB, Disk: 256GB SAMSUNG MZNLN256, Graphics: Intel HD

520 3072MB (1000MHz), Audio: Conexant CX20724, Network: Intel Connection I219-V + Intel Wireless 8260

OS: Ubuntu 18.04, Kernel: 4.18.0-21-generic (x86_64), Desktop: GNOME Shell 3.28.4, Display Driver: modesetting 1.20.1, OpenGL: 4.5 Mesa 18.2.8, Compiler: GCC 7.4.0, File-System: ext4, Screen Resolution: 1920x1080

```
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie
--enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes
--enable-multiarch --enable-multilib --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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-default-libstdcxx-abi=new
--with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
```

Processor Notes: Scaling Governor: intel_pstate powersave

Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling Protection

SAMSUNG	Intel Core	Intel Core	Intel HD 520	Intel
MZNLN256	i5-6200U	i5-6200U - Intel	HD 520 3072MB	Connection

- HP 8079

hdparm Timed Disk Reads -	524.51
/dev/sda (MB/s)	
Standard Deviation	0.5%
Himeno Benchmark - P.P.S	1841
(MFLOPS)	
Standard Deviation	1.5%
Hierarchical INTegration -	281417773
FLOAT (QUIPs)	
Standard Deviation	0.2%
Hierarchical INTegration -	653886506
DOUBLE (QUIPs)	
Standard Deviation	0.3%
Timed HMMer Search - P.D.S	19.24
(sec)	
Standard Deviation	1.1%
HPC Challenge - G-HPL	20.14827
(GFLOPS)	
Standard Deviation	0.2%
HPC Challenge - G-Ffte	3.21539
Standard Deviation	1.2%
HPC Challenge - G-Ffte	3.21539
Standard Deviation	1.2%
HPC Challenge - EP-DGEMM	5.22681
(GFLOPS)	
Standard Deviation	0.1%
HPC Challenge - G-Ptrans (GB/s)	0.31648
Standard Deviation	0.6%
HPC Challenge - EP-STREAM	4.72101
Triad (GB/s)	
Standard Deviation	0.1%

HPC Challenge - G-Rand Access (GUP/s)	0.00204
Standard Deviation	0.7%
HPC Challenge - R.R.L (usecs)	0.66375
Standard Deviation	0.6%
HPC Challenge - R.R.B (GB/s)	2.70117
Standard Deviation	0.7%
HPC Challenge - M.P.P.B (MB/s)	7552
Standard Deviation	2.7%
High Performance Conjugate Gradient (GFLOP/s)	1.09
Standard Deviation	0%
Interbench - X - Burn (Max Latency ms)	246
Standard Deviation	2.1%
Interbench - X - Read (Max Latency ms)	48
Standard Deviation	17.3%
Interbench - Audio - X (Max Latency ms)	0.25
Standard Deviation	21.9%
Interbench - Video - X (Max Latency ms)	16.83
Standard Deviation	0.3%
Interbench - X - Video (Max Latency ms)	34
Standard Deviation	29.5%
Interbench - X - Write (Max Latency ms)	86
Standard Deviation	32.1%
Interbench - Gaming - X (Max Latency ms)	2.10
Standard Deviation	18.3%
Interbench - X - Memload (Max Latency ms)	15
Standard Deviation	105.8%
Interbench - Audio - Burn (Max Latency ms)	4.53
Standard Deviation	143.5%
Interbench - Audio - Read (Max Latency ms)	0.60
Standard Deviation	124.7%
Interbench - Video - Burn (Max Latency ms)	48.20
Standard Deviation	3%
Interbench - Video - Read (Max Latency ms)	5.98
Standard Deviation	139%

Interbench - Audio - Video (Max Latency ms)	0.20
Standard Deviation	0%
Interbench - Audio - Write (Max Latency ms)	124.02
Standard Deviation	44.2%
Interbench - Gaming - Burn (Max Latency ms)	100.08
Standard Deviation	6.5%
Interbench - Video - Write (Max Latency ms)	122.48
Standard Deviation	48.5%
Interbench - Gaming - Write (Max Latency ms)	51.20
Standard Deviation	27.7%
Interbench - Audio - Compile (Max Latency ms)	127.43
Standard Deviation	1.9%
Interbench - Audio - Memload (Max Latency ms)	0.68
Standard Deviation	63.7%
Interbench - Video - Compile (Max Latency ms)	142.68
Standard Deviation	26.5%
Interbench - Video - Memload (Max Latency ms)	0.38
Standard Deviation	99.6%
Interbench - Gaming - Compile (Max Latency ms)	267.97
Standard Deviation	18.6%
Interbench - Gaming - Memload (Max Latency ms)	2.80
Standard Deviation	2%
IOzone - 1MB - 2GB - Read Performance (MB/s)	6933
Standard Deviation	2%
IOzone - 1MB - 4GB - Read Performance (MB/s)	6255
Standard Deviation	2.9%
IOzone - 1MB - 8GB - Read Performance (MB/s)	6988
Standard Deviation	2.2%
IOzone - 4Kb - 2GB - Read Performance (MB/s)	3394
Standard Deviation	3.3%
IOzone - 4Kb - 4GB - Read Performance (MB/s)	3677
Standard Deviation	0.4%
IOzone - 4Kb - 8GB - Read Performance (MB/s)	3726
Standard Deviation	1.3%

IOzone - 1MB - 2GB - Write 254.98**Performance (MB/s)**

Standard Deviation 4%

IOzone - 1MB - 4GB - Write 264.61**Performance (MB/s)**

Standard Deviation 4%

IOzone - 1MB - 8GB - Write 285.24**Performance (MB/s)**

Standard Deviation 0.4%

IOzone - 4Kb - 2GB - Write 255.24**Performance (MB/s)**

Standard Deviation 1.8%

IOzone - 4Kb - 4GB - Write 271.24**Performance (MB/s)**

Standard Deviation 0.5%

IOzone - 4Kb - 8GB - Write 279.97**Performance (MB/s)**

Standard Deviation 0.3%

IOzone - 64Kb - 2GB - Read 6208**Performance (MB/s)**

Standard Deviation 0.4%

IOzone - 64Kb - 4GB - Read 6527**Performance (MB/s)**

Standard Deviation 3.1%

IOzone - 64Kb - 8GB - Read 7201**Performance (MB/s)**

Standard Deviation 1.3%

IOzone - 1MB - 512MB - Read 4076**Performance (MB/s)**

Standard Deviation 2.2%

IOzone - 4Kb - 512MB - Read 2802**Performance (MB/s)**

Standard Deviation 0.6%

IOzone - 64Kb - 2GB - Write 261.09**Performance (MB/s)**

Standard Deviation 3.5%

IOzone - 64Kb - 4GB - Write 278.01**Performance (MB/s)**

Standard Deviation 0.3%

IOzone - 64Kb - 8GB - Write 285.38**Performance (MB/s)**

Standard Deviation 0.2%

IOzone - 1MB - 512MB - Write 233.79**Performance (MB/s)**

Standard Deviation 3.2%

IOzone - 4Kb - 512MB - Write 230.88**Performance (MB/s)**

Standard Deviation 2.7%

IOzone - 64Kb - 512MB - Read 4390**Performance (MB/s)**

Standard Deviation 11.3%

IOzone - 64Kb - 512MB - Write	205.94
Performance (MB/s)	
Standard Deviation	14.2%
Java 2D Microbenchmark - Text	
Rendering (Units/sec)	11706
Standard Deviation	3.5%
Java 2D Microbenchmark - Image Rendering (Units/sec)	
Standard Deviation	1555370
Standard Deviation	0.3%
Java 2D Microbenchmark - A.R.T (Units/sec)	
Standard Deviation	1042552
Java 2D Microbenchmark - V.G.R (Units/sec)	
Standard Deviation	895155
Standard Deviation	2.1%
Java Gradle Build - Reactor (sec)	
Standard Deviation	0.9%
Standard Deviation	30.76
Java SciMark - Composite	
Standard Deviation	0.8%
Standard Deviation	1708
Standard Deviation	0.8%
Java SciMark - Monte Carlo (Mflops)	
Standard Deviation	684.09
Standard Deviation	0.5%
Java SciMark - F.F.T (Mflops)	
Standard Deviation	1070
Standard Deviation	2.6%
Java SciMark - S.M.M (Mflops)	
Standard Deviation	1587
Standard Deviation	0.4%
Java SciMark - D.L.M.F (Mflops)	
Standard Deviation	4189
Standard Deviation	1%
Java SciMark - J.S.O.R (Mflops)	
Standard Deviation	1011
Standard Deviation	0.2%
John The Ripper - Blowfish (Real C/S)	
Standard Deviation	2501
Standard Deviation	0.1%
John The Ripper - Traditional DES (Real C/S)	
Standard Deviation	9620333
Standard Deviation	0.2%
John The Ripper - MD5 (Real)	
Standard Deviation	80361
Standard Deviation	0.1%
JuliaGPU - CPU (Samples/sec)	
Standard Deviation	2211180
Standard Deviation	0%
JuliaGPU - CPU+GPU (Samples/sec)	
Standard Deviation	2210998
Standard Deviation	0%
JXRenderMark - Simple Blit - 32x32 (Operations/sec)	
Standard Deviation	279588
Standard Deviation	3%
JXRenderMark - 12pt Text LCD - 32x32 (Operations/sec)	
Standard Deviation	155144
Standard Deviation	3.1%

JXRenderMark - Simple Blit -		256952
128x128 (Operations/sec)		
Standard Deviation	6.2%	
JXRenderMark - Simple Blit -		95896
256x256 (Operations/sec)		
Standard Deviation	7.9%	
JXRenderMark - Simple Blit -		19533
512x512 (Operations/sec)		
Standard Deviation	8.5%	
JXRenderMark - 12pt Text LCD -		111009
128x128 (Operations/sec)		
Standard Deviation	4.2%	
JXRenderMark - 12pt Text LCD -		83353
256x256 (Operations/sec)		
Standard Deviation	3.4%	
JXRenderMark - 12pt Text LCD -		54374
512x512 (Operations/sec)		
Standard Deviation	3.5%	
JXRenderMark - Put		15174
Composition - 32x32		
Standard Deviation	1.6%	
JXRenderMark - Simple Blit -		8913
1024x1024 (Operations/sec)		
Standard Deviation	17.3%	
JXRenderMark - 12pt Text LCD -		32527
1024x1024 (Operations/sec)		
Standard Deviation	4.3%	
JXRenderMark - Put		11500
Composition - 128x128		
Standard Deviation	1.1%	
JXRenderMark - Put		8504
Composition - 256x256		
Standard Deviation	4.5%	
JXRenderMark - Put		5393
Composition - 512x512		
Standard Deviation	4.9%	
JXRenderMark - Rects		45354
Composition - 32x32		
(Operations/sec)		
Standard Deviation	3.6%	
JXRenderMark - 1.T.G - 32x32		154396
(Operations/sec)		
Standard Deviation	3.5%	
JXRenderMark - Put		3347
Composition - 1024x1024		
Standard Deviation	10.4%	
JXRenderMark - Rects		35241
Composition - 128x128		
(Operations/sec)		
Standard Deviation	5.4%	

JXRenderMark - Rects	17806
Composition - 256x256 (Operations/sec)	
Standard Deviation	5.4%
JXRenderMark - Rects	9935
Composition - 512x512 (Operations/sec)	
Standard Deviation	10.3%
JXRenderMark - 1.T.G - 128x128 (Operations/sec)	110398
Standard Deviation	3.4%
JXRenderMark - 1.T.G - 256x256 (Operations/sec)	82554
Standard Deviation	2.9%
JXRenderMark - 1.T.G - 512x512 (Operations/sec)	53410
Standard Deviation	5.1%
JXRenderMark - G.T.T - 32x32 (Operations/sec)	15247
Standard Deviation	3.6%
JXRenderMark - L.G.B - 32x32 (Operations/sec)	17945
Standard Deviation	3%
JXRenderMark - R.G.P - 32x32 (Operations/sec)	17663
Standard Deviation	3.5%
JXRenderMark - Rects	5522
Composition - 1024x1024 (Operations/sec)	
Standard Deviation	18.5%
JXRenderMark - 1.T.G - 1024x1024 (Operations/sec)	31972
Standard Deviation	2%
JXRenderMark - G.T.T - 128x128 (Operations/sec)	14173
Standard Deviation	3.4%
JXRenderMark - G.T.T - 256x256 (Operations/sec)	8898
Standard Deviation	6.1%
JXRenderMark - G.T.T - 512x512 (Operations/sec)	3209
Standard Deviation	8.5%
JXRenderMark - L.G.B - 128x128 (Operations/sec)	16741
Standard Deviation	3.7%
JXRenderMark - L.G.B - 256x256 (Operations/sec)	10638
Standard Deviation	8%
JXRenderMark - L.G.B - 512x512 (Operations/sec)	4037
Standard Deviation	7.6%

JXRenderMark - R.G.P - 128x128		16952
(Operations/sec)		
Standard Deviation	1.9%	
JXRenderMark - R.G.P - 256x256		12016
(Operations/sec)		
Standard Deviation	3.5%	
JXRenderMark - R.G.P - 512x512		5169
(Operations/sec)		
Standard Deviation	12.2%	
JXRenderMark - T.B.L - 32x32		205110
(Operations/sec)		
Standard Deviation	1.3%	
JXRenderMark - G.T.T -		2217
1024x1024 (Operations/sec)		
Standard Deviation	10.2%	
JXRenderMark - L.G.B -		1829
1024x1024 (Operations/sec)		
Standard Deviation	13.5%	
JXRenderMark - R.G.P -		2347
1024x1024 (Operations/sec)		
Standard Deviation	7.2%	
JXRenderMark - T.B.B - 32x32		46869
(Operations/sec)		
Standard Deviation	1.9%	
JXRenderMark - T.B.L - 128x128		193199
(Operations/sec)		
Standard Deviation	5.4%	
JXRenderMark - T.B.L - 256x256		55114
(Operations/sec)		
Standard Deviation	8.8%	
JXRenderMark - T.B.L - 512x512		15424
(Operations/sec)		
Standard Deviation	22.7%	
JXRenderMark - T.T.P - 32x32		49442
(Operations/sec)		
Standard Deviation	3.4%	
JXRenderMark - T.B.B - 128x128		42487
(Operations/sec)		
Standard Deviation	4%	
JXRenderMark - T.B.B - 256x256		25935
(Operations/sec)		
Standard Deviation	7.2%	
JXRenderMark - T.B.B - 512x512		8860
(Operations/sec)		
Standard Deviation	8%	
JXRenderMark - T.B.L -		69108
1024x1024 (Operations/sec)		
Standard Deviation	132.1%	
JXRenderMark - T.T.P - 128x128		46930
(Operations/sec)		
Standard Deviation	3.4%	

JXRenderMark - T.T.P - 256x256 (Operations/sec)	18621
Standard Deviation	6.3%
JXRenderMark - T.T.P - 512x512 (Operations/sec)	9580
Standard Deviation	6.9%
JXRenderMark - T.B.B - 1024x1024 (Operations/sec)	4985
Standard Deviation	10%
JXRenderMark - T.T.P - 1024x1024 (Operations/sec)	5441
Standard Deviation	9.4%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (Loop Time)	44.46
Standard Deviation	0.4%
LLVM Test Suite - Time To Run (sec)	293.54
Standard Deviation	0.2%
LuaJIT - Composite (Mflops)	918.47
Standard Deviation	0.4%
LuaJIT - Monte Carlo (Mflops)	347.12
Standard Deviation	0.6%
LuaJIT - F.F.T (Mflops)	213.57
Standard Deviation	0.4%
LuaJIT - S.M.M (Mflops)	886.88
Standard Deviation	0.5%
LuaJIT - D.L.M.F (Mflops)	2103
Standard Deviation	0.7%
LuaJIT - J.S.O.R (Mflops)	1041
Standard Deviation	0.4%
Izbench - XZ 0 - Compression (MB/s)	25
Izbench - XZ 0 - Decompression (MB/s)	69
Izbench - Zstd 1 - Compression (MB/s)	279
Izbench - Zstd 1 - Decompression (MB/s)	749
Izbench - Brotli 0 - Compression (MB/s)	288
Standard Deviation	0.8%
Izbench - Brotli 0 - Decompression (MB/s)	377
Standard Deviation	0.6%
Izbench - Libdeflate 1 - Compression (MB/s)	145
Izbench - Libdeflate 1 - Decompression (MB/s)	735
Standard Deviation	0.4%
m-queens - Time To Solve (sec)	547.31

Timed MAFFT Alignment - M.S.A	Standard Deviation (sec)	0% 9.72
MandelbulbGPU - CPU	Standard Deviation (Samples/sec)	1.1% 602305
MandelbulbGPU - CPU+GPU	Standard Deviation (Samples/sec)	0.1% 602012
MandelGPU - CPU (Samples/sec)	Standard Deviation	0.1% 1650180
MandelGPU - CPU+GPU	Standard Deviation (Samples/sec)	0% 1650583
MBW - Memory Copy - 128 MiB	Standard Deviation (MiB/s)	0.1% 11242
MBW - Memory Copy - 512 MiB	Standard Deviation (MiB/s)	0.9% 10719
MBW - Memory Copy - 1024 MiB	Standard Deviation (MiB/s)	0.2% 10261
MBW - Memory Copy - 4096 MiB	Standard Deviation (MiB/s)	6.9% 11005
MBW - M.C.F.B.S - 128 MiB	Standard Deviation (MiB/s)	8% 6640
MBW - M.C.F.B.S - 512 MiB	Standard Deviation (MiB/s)	0.8% 6594
MBW - M.C.F.B.S - 1024 MiB	Standard Deviation (MiB/s)	0.3% 6504
MBW - M.C.F.B.S - 4096 MiB	Standard Deviation (MiB/s)	0.2% 6628
Memcached mcperf - Add	Standard Deviation (Operations/sec)	2.2% 51218
Memcached mcperf - Get	Standard Deviation (Operations/sec)	0.9% 79289
Memcached mcperf - Set	Standard Deviation (Operations/sec)	0.5% 51305
Memcached mcperf - Append	Standard Deviation (Operations/sec)	0.6% 53966
	Standard Deviation	1.3%

Memcached mcperf - Delete (Operations/sec)	79660
Standard Deviation	1%
Memcached mcperf - Prepend (Operations/sec)	54383
Standard Deviation	0.3%
Memcached mcperf - Replace (Operations/sec)	53288
Standard Deviation	3.1%
Mencoder - AVI To LAVC (sec)	25.56
Standard Deviation	0.4%
Minion - Graceful (sec)	78.53
Standard Deviation	0.5%
Minion - Solitaire (sec)	102.82
Standard Deviation	0.3%
Minion - Quasigroup (sec)	174.51
Standard Deviation	0.6%
Mixbench - Integer (GIGOPS)	5.30
Standard Deviation	1.9%
Mixbench - Double Precision (GFLOPS)	5.82
Standard Deviation	0.1%
Mixbench - Single Precision (GFLOPS)	0.12
Standard Deviation	0%
MKL-DNN - IP Batch 1D - f32	37.42
Standard Deviation	1.3%
MKL-DNN - IP Batch All - f32	437.58
Standard Deviation	1.3%
MKL-DNN - IP Batch 1D - u8s8u8s32 (ms)	23.05
Standard Deviation	1%
MKL-DNN - IP Batch 1D - u8s8f32s32 (ms)	22.19
Standard Deviation	1%
MKL-DNN - IP Batch All - u8s8u8s32 (ms)	280.78
Standard Deviation	0.9%
MKL-DNN - IP Batch All - u8s8f32s32 (ms)	279.23
Standard Deviation	2.2%
MKL-DNN - C.B.c - f32 (ms)	95.42
Standard Deviation	0.1%
MKL-DNN - C.B.c - f32 (ms)	16768
Standard Deviation	0%
MKL-DNN - D.B.d - f32 (ms)	34.68
Standard Deviation	0.5%
MKL-DNN - D.B.d - f32 (ms)	36.09
Standard Deviation	0.6%
MKL-DNN - C.B.c - f32 (ms)	2251
Standard Deviation	0.1%
MKL-DNN - D.B.d - f32 (ms)	13428

Standard Deviation	0.2%
MKL-DNN - C.B.c - u8s8u8s32	77617
(ms)	
Standard Deviation	0%
MKL-DNN - C.B.c - u8s8f32s32	79533
(ms)	
Standard Deviation	0.1%
MKL-DNN - C.B.c - u8s8u8s32	93554
(ms)	
Standard Deviation	0.1%
MKL-DNN - C.B.c - u8s8f32s32	91265
(ms)	
Standard Deviation	0.1%
MKL-DNN - C.B.c - f32 (ms)	931.12
Standard Deviation	0.1%
MKL-DNN - D.B.d - u8s8u8s32	39192
(ms)	
Standard Deviation	0%
MKL-DNN - D.B.d - u8s8u8s32	63700
(ms)	
Standard Deviation	0%
MKL-DNN - C.B.c - u8s8u8s32	3152
(ms)	
Standard Deviation	0.4%
MKL-DNN - D.B.d - u8s8f32s32	38981
(ms)	
Standard Deviation	0.1%
MKL-DNN - D.B.d - u8s8f32s32	63906
(ms)	
Standard Deviation	0%
MKL-DNN - D.B.d - u8s8u8s32	112049
(ms)	
Standard Deviation	0.1%
MKL-DNN - C.B.c - u8s8f32s32	2892
(ms)	
Standard Deviation	0.1%
MKL-DNN - C.B.c - u8s8u8s32	1856
(ms)	
Standard Deviation	0.4%
MKL-DNN - C.B.c - u8s8f32s32	1610
(ms)	
Standard Deviation	0.2%
GNU MPC - M.P.B (Global Score)	6447
Standard Deviation	0.3%
Timed MrBayes Analysis - P.P.A	576.39
(sec)	
Standard Deviation	0%
Multichase Pointer Chaser -	9.53
4.A.6.B.S (ns)	
Standard Deviation	2.7%

Multichase Pointer Chaser -	90.39	
1.A.2.B.S (ns)		
Standard Deviation	1.7%	
Multichase Pointer Chaser -	91.63	
2.A.2.B.S (ns)		
Standard Deviation	0.5%	
Multichase Pointer Chaser -	99.84	
1.A.2.B.S.2.T (ns)		
Standard Deviation	0.8%	
Multichase Pointer Chaser -	187.87	
1.A.2.B.S.4.T (ns)		
Standard Deviation	2.5%	
N-Queens - Elapsed Time (sec)	96.74	
Standard Deviation	0.2%	
NAMD - ATPase Simulation -	10.46223	
327,506 Atoms (days/ns)		
Standard Deviation	0.2%	
Open FMM Nero2D - Total Time	241.16	
(sec)		
Standard Deviation	0.7%	
Loopback TCP Network		12.39
Performance - T.T.T.1.V.L (sec)		
Standard Deviation	0.3%	
NGINX Benchmark - S.W.P.S	22358	
(Req/sec)		
Standard Deviation		
Node.js Octane Benchmark	27150	
(Score)		
Standard Deviation	0.2%	
NAS Parallel Benchmarks - BT.A	2094	
(Mop/s)		
Standard Deviation	0.8%	
NAS Parallel Benchmarks - EP.C	127.79	
(Mop/s)		
Standard Deviation	1.2%	
NAS Parallel Benchmarks - FT.A	3800	
(Mop/s)		
Standard Deviation	0.4%	
NAS Parallel Benchmarks - FT.B	3837	
(Mop/s)		
Standard Deviation	0.4%	
NAS Parallel Benchmarks - LU.A	6926	
(Mop/s)		
Standard Deviation	0.6%	
NAS Parallel Benchmarks - LU.C	5893	
(Mop/s)		
Standard Deviation	0.3%	
NAS Parallel Benchmarks - SP.A	1856	
(Mop/s)		
Standard Deviation	0.1%	

Numenta Anomaly Benchmark - Time To Completion (sec)	961.02
Standard Deviation	0.4%
Numpy Benchmark	7139022
Nuttcp - 10G+ UDP - 5.20.0.41 (Mbits/s)	166.07
Standard Deviation	5.7%
Nuttcp - TCP Transfer - Default - 5.20.0.41 (Mbits/s)	127.38
Standard Deviation	6.4%
OpenArena - 800 x 600 (FPS)	178.87
Standard Deviation	0.4%
OpenArena - 1024 x 768 (FPS)	126.23
Standard Deviation	0%
OpenArena - 1920 x 1080 (FPS)	49.07
Standard Deviation	0.1%
OpenArena - 2560 x 1440 (FPS)	197.00
Standard Deviation	0.8%
OpenSSL - R.4.b.P (Signs/sec)	410.97
Standard Deviation	0.1%
Optcarrot - O.B (FPS)	82.75
Standard Deviation	0.6%
OSBench - Create Files	20.43
Standard Deviation	1%
OSBench - Create Threads (us/Event)	19.31
Standard Deviation	3.1%
OSBench - Launch Programs (us/Event)	118.63
Standard Deviation	0.4%
OSBench - Create Processes (us/Event)	34.92
Standard Deviation	0.5%
OSBench - Memory Allocations (Ns/Event)	106.60
Standard Deviation	0.1%
ParaView - Many Spheres - 800 x 600 (Frames / Sec)	5.03
Standard Deviation	0.3%
ParaView - Many Spheres - 800 x 600 (MiPolys / Sec)	504.59
Standard Deviation	0.3%
ParaView - Many Spheres - 1024 x 576 (Frames / Sec)	5.02
Standard Deviation	0.7%
ParaView - Many Spheres - 1024 x 576 (MiPolys / Sec)	503.21
Standard Deviation	0.7%
ParaView - Many Spheres - 1024 x 768 (Frames / Sec)	5.00
Standard Deviation	0.1%

ParaView - Many Spheres - 1024	501.01
x 768 (MiPolys / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1280	4.99
x 800 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1280	499.93
x 800 (MiPolys / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1280	4.95
x 960 (Frames / Sec)	
Standard Deviation	0%
ParaView - Many Spheres - 1280	495.97
x 960 (MiPolys / Sec)	
Standard Deviation	0%
ParaView - Many Spheres - 1368	5.01
x 768 (Frames / Sec)	
Standard Deviation	0.3%
ParaView - Many Spheres - 1368	501.96
x 768 (MiPolys / Sec)	
Standard Deviation	0.3%
ParaView - Many Spheres - 1400	4.93
x 900 (Frames / Sec)	
Standard Deviation	1.1%
ParaView - Many Spheres - 1400	494.32
x 900 (MiPolys / Sec)	
Standard Deviation	1%
ParaView - Many Spheres - 1440	4.97
x 810 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1440	498.74
x 810 (MiPolys / Sec)	
Standard Deviation	0.2%
ParaView - Many Spheres - 1440	4.95
x 900 (Frames / Sec)	
Standard Deviation	0.2%
ParaView - Many Spheres - 1440	496.10
x 900 (MiPolys / Sec)	
Standard Deviation	0.2%
ParaView - Many Spheres - 1600	4.94
x 900 (Frames / Sec)	
Standard Deviation	0%
ParaView - Many Spheres - 1600	495.22
x 900 (MiPolys / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1280	4.91
x 1024 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1280	492.47
x 1024 (MiPolys / Sec)	
Standard Deviation	0.1%

ParaView - Many Spheres - 1400	4.91
x 1050 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1400	491.74
x 1050 (MiPolys / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1600	4.89
x 1024 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1600	490.80
x 1024 (MiPolys / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1680	4.88
x 1050 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1680	489.43
x 1050 (MiPolys / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1920	4.88
x 1080 (Frames / Sec)	
Standard Deviation	0.1%
ParaView - Many Spheres - 1920	489.54
x 1080 (MiPolys / Sec)	
Standard Deviation	0%
ParaView - Wavelet Volume - 800	36.68
x 600 (Frames / Sec)	
Standard Deviation	0.4%
ParaView - Wavelet Volume - 800	586.84
x 600 (MiVoxels / Sec)	
Standard Deviation	0.4%
ParaView - Wavelet Contour -	30.77
800 x 600 (Frames / Sec)	
Standard Deviation	0.9%
ParaView - Wavelet Contour -	320.66
800 x 600 (MiPolys / Sec)	
Standard Deviation	0.9%
ParaView - Wavelet Volume -	37.96
1024 x 576 (Frames / Sec)	
Standard Deviation	0.6%
ParaView - Wavelet Volume -	607.32
1024 x 576 (MiVoxels / Sec)	
Standard Deviation	0.6%
ParaView - Wavelet Volume -	28.60
1024 x 768 (Frames / Sec)	
Standard Deviation	0.8%
ParaView - Wavelet Volume -	457.66
1024 x 768 (MiVoxels / Sec)	
Standard Deviation	0.8%
ParaView - Wavelet Volume -	27.10
1280 x 800 (Frames / Sec)	
Standard Deviation	0.3%

ParaView - Wavelet Volume -	433.66
1280 x 800 (MiVoxels / Sec)	
Standard Deviation	0.2%
ParaView - Wavelet Volume -	22.94
1280 x 960 (Frames / Sec)	
Standard Deviation	0.5%
ParaView - Wavelet Volume -	367.08
1280 x 960 (MiVoxels / Sec)	
Standard Deviation	0.6%
ParaView - Wavelet Volume -	28.27
1368 x 768 (Frames / Sec)	
Standard Deviation	0.4%
ParaView - Wavelet Volume -	452.36
1368 x 768 (MiVoxels / Sec)	
Standard Deviation	0.4%
ParaView - Wavelet Volume -	24.23
1400 x 900 (Frames / Sec)	
Standard Deviation	0.3%
ParaView - Wavelet Volume -	387.66
1400 x 900 (MiVoxels / Sec)	
Standard Deviation	0.3%
ParaView - Wavelet Volume -	26.76
1440 x 810 (Frames / Sec)	
Standard Deviation	0.4%
ParaView - Wavelet Volume -	428.15
1440 x 810 (MiVoxels / Sec)	
Standard Deviation	0.4%
ParaView - Wavelet Volume -	24.14
1440 x 900 (Frames / Sec)	
Standard Deviation	0.7%
ParaView - Wavelet Volume -	386.32
1440 x 900 (MiVoxels / Sec)	
Standard Deviation	0.7%
ParaView - Wavelet Volume -	24.03
1600 x 900 (Frames / Sec)	
Standard Deviation	0.6%
ParaView - Wavelet Volume -	384.45
1600 x 900 (MiVoxels / Sec)	
Standard Deviation	0.6%
ParaView - Wavelet Contour -	32.16
1024 x 576 (Frames / Sec)	
Standard Deviation	0.2%
ParaView - Wavelet Contour -	335.16
1024 x 576 (MiPolys / Sec)	
Standard Deviation	0.2%
ParaView - Wavelet Contour -	20.63
1024 x 768 (Frames / Sec)	
Standard Deviation	0.2%
ParaView - Wavelet Contour -	215.04
1024 x 768 (MiPolys / Sec)	
Standard Deviation	0.2%

ParaView - Wavelet Contour -		19.50
1280 x 800 (Frames / Sec)		
Standard Deviation	0%	
ParaView - Wavelet Contour -		203.27
1280 x 800 (MiPolys / Sec)		
Standard Deviation	0%	
ParaView - Wavelet Contour -		15.72
1280 x 960 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		163.83
1280 x 960 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		20.55
1368 x 768 (Frames / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Contour -		214.18
1368 x 768 (MiPolys / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Contour -		16.84
1400 x 900 (Frames / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Contour -		175.53
1400 x 900 (MiPolys / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Contour -		19.12
1440 x 810 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		199.22
1440 x 810 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		16.81
1440 x 900 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		175.16
1440 x 900 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		16.80
1600 x 900 (Frames / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Contour -		175.01
1600 x 900 (MiPolys / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Volume -		21.62
1280 x 1024 (Frames / Sec)		
Standard Deviation	0.3%	
ParaView - Wavelet Volume -		345.95
1280 x 1024 (MiVoxels / Sec)		
Standard Deviation	0.3%	
ParaView - Wavelet Volume -		21.36
1400 x 1050 (Frames / Sec)		
Standard Deviation	0.2%	

ParaView - Wavelet Volume -		341.83
1400 x 1050 (MiVoxels / Sec)		
Standard Deviation	0.2%	
ParaView - Wavelet Volume -		20.93
1600 x 1024 (Frames / Sec)		
Standard Deviation	0.8%	
ParaView - Wavelet Volume -		334.93
1600 x 1024 (MiVoxels / Sec)		
Standard Deviation	0.8%	
ParaView - Wavelet Volume -		20.99
1680 x 1050 (Frames / Sec)		
Standard Deviation	0.3%	
ParaView - Wavelet Volume -		335.81
1680 x 1050 (MiVoxels / Sec)		
Standard Deviation	0.3%	
ParaView - Wavelet Volume -		20.97
1920 x 1080 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Volume -		335.61
1920 x 1080 (MiVoxels / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		14.64
1280 x 1024 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		152.53
1280 x 1024 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		14.58
1400 x 1050 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		151.91
1400 x 1050 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		14.45
1600 x 1024 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		150.58
1600 x 1024 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		14.44
1680 x 1050 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		150.44
1680 x 1050 (MiPolys / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		14.43
1920 x 1080 (Frames / Sec)		
Standard Deviation	0.1%	
ParaView - Wavelet Contour -		150.43
1920 x 1080 (MiPolys / Sec)		
Standard Deviation	0.1%	

Parboil - OpenMP LBM (sec)	181.55
Standard Deviation	0.9%
Parboil - OpenMP CUTCP (sec)	23.08
Standard Deviation	0.2%
Parboil - OpenMP Stencil (sec)	33.54
Standard Deviation	0.7%
Parboil - O.M.G (sec)	30.74
Standard Deviation	2.2%
Perl Benchmarks - Pod2html	0.17173742
Standard Deviation	1%
Perl Benchmarks - Interpreter	0.00138340
Standard Deviation	0.3%
PostgreSQL pgbench - On-Disk - Normal Load - Read Only (TPS)	55343
Standard Deviation	1.6%
PostgreSQL pgbench - On-Disk - Normal Load - Read Write (TPS)	312.78
Standard Deviation	0.2%
PostgreSQL pgbench - On-Disk - Single Thread - Read Only (TPS)	20891
Standard Deviation	1.8%
PostgreSQL pgbench - Mostly RAM - Normal Load - Read Only (TPS)	0.07
Standard Deviation	0.1%
PostgreSQL pgbench - On-Disk - Single Thread - Read Write (TPS)	91.69
Standard Deviation	0.6%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Only	38061
Standard Deviation	0.8%
PostgreSQL pgbench - Mostly RAM - Normal Load - Read Write (TPS)	0.04
Standard Deviation	0.3%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Write	870.09
Standard Deviation	0.5%
PostgreSQL pgbench - Mostly RAM - Single Thread - Read Only (TPS)	0.01
Standard Deviation	0.1%
PostgreSQL pgbench - On-Disk - Heavy Contention - Read Only (TPS)	51057
Standard Deviation	0.7%
PostgreSQL pgbench - Buffer Test - Single Thread - Read Only	14428
Standard Deviation	0.3%

PostgreSQL pgbench - On-Disk - Heavy Contention - Read Write (TPS)	309.28
Standard Deviation	0.3%
PostgreSQL pgbench - Buffer Test - Single Thread - Read Write	148.94
Standard Deviation	9.1%
PostgreSQL pgbench - Mostly RAM - Heavy Contention - Read Only (TPS)	0.07
Standard Deviation	0.7%
PostgreSQL pgbench - Buffer Test - Heavy Contention - Read Only (TPS)	35013
Standard Deviation	0.5%
PostgreSQL pgbench - Mostly RAM - Heavy Contention - Read Write (TPS)	0.04
Standard Deviation	2.1%
PostgreSQL pgbench - Buffer Test - Heavy Contention - Read Write (TPS)	1190
Standard Deviation	7%
PHP Micro Benchmarks - Zend bench (sec)	0.59
Standard Deviation	0.5%
PHP Micro Benchmarks - Zend micro_bench (sec)	2.93
Standard Deviation	0.9%
PHPBench - P.B.S (Score)	445196
Standard Deviation	0.4%
Pjdfstest (sec)	176
PolyBench-C - C.C (sec)	8.31
Standard Deviation	1.2%
PolyBench-C - C.C (sec)	8.23
Standard Deviation	0.5%
PolyBench-C - 3.M.M (sec)	5.74
Standard Deviation	0.8%
PostMark - D.T.P (TPS)	4190
Standard Deviation	1%
POV-Ray - Trace Time (sec)	299.17
Standard Deviation	0.2%
Primesieve - 1.P.N.G (sec)	152.26
Standard Deviation	0.6%
PyBench - T.F.A.T.T	1521
Standard Deviation	0.6%
QGears2 - OpenGL - Text (FPS)	532.12
Standard Deviation	0.2%
QGears2 - OpenGL - Gears (FPS)	607.31
Standard Deviation	1.9%

QGears2 - OpenGL - Image Scaling (FPS)	2390
Standard Deviation	0.6%
QGears2 - CPU-based Raster - Text (FPS)	293.73
Standard Deviation	0.9%
QGears2 - CPU-based Raster - Gears (FPS)	179.38
Standard Deviation	0.1%
QGears2 - XRender Extension - Text (FPS)	280.15
Standard Deviation	0.1%
QGears2 - XRender Extension - Gears (FPS)	186.50
Standard Deviation	0.1%
QGears2 - CPU-based Raster - Image Scaling (FPS)	1328
Standard Deviation	0.4%
QGears2 - XRender Extension - Image Scaling (FPS)	1639
Standard Deviation	0.6%
Qmlbench - Fib10 (Frames)	263.20
Qmlbench - Canvas Text Simple (Frames)	241.20
Qmlbench - C.D.F (Frames)	285
Qmlbench - M.I.A (Frames)	383.20
Radiance Benchmark - Serial	1133
Radiance Benchmark - SMP Parallel (sec)	594.13
RAMspeed SMP - Add - Integer (MB/s)	19479
RAMspeed SMP - Copy - Integer (MB/s)	17464
RAMspeed SMP - Scale - Integer (MB/s)	17513
RAMspeed SMP - Triad - Integer (MB/s)	19752
RAMspeed SMP - Average - Integer (MB/s)	18553
RAMspeed SMP - Add - Floating Point (MB/s)	19556
RAMspeed SMP - Copy - Floating Point (MB/s)	17485
RAMspeed SMP - Scale - Floating Point (MB/s)	17498
RAMspeed SMP - Triad - Floating Point (MB/s)	19454

RAMspeed SMP - Average -	18497
Floating Point (MB/s)	
R Benchmark (sec)	0.5950
Standard Deviation	0.7%
Redis - LPOP (Reqs/sec)	1870223
Standard Deviation	10.9%
Redis - SADD (Reqs/sec)	1543506
Standard Deviation	1.7%
Redis - LPUSH (Reqs/sec)	1208132
Standard Deviation	6.8%
Redis - GET (Reqs/sec)	1777741
Standard Deviation	11%
Redis - SET (Reqs/sec)	1230756
Standard Deviation	7.7%
Renaissance - Scala Dotty (ms)	13687
Standard Deviation	2.5%
Renaissance - Twitter Finagle	11028
Standard Deviation	3.4%
Renaissance - Apache Spark	12630
ALS (ms)	
Standard Deviation	3.3%
Renaissance - Apache Spark	19291
Bayes (ms)	
Standard Deviation	5%
Renaissance - Savina	24755
Reactors.IO (ms)	
Standard Deviation	1.5%
Renaissance - A.S.P (ms)	55023
Standard Deviation	1.3%
Renaissance - I.M.D.S (ms)	11442
Standard Deviation	4.9%
Renaissance - A.U.C.T (ms)	25099
Standard Deviation	3.5%
Render Bench (sec)	17.17
Standard Deviation	0.2%
Rodinia - OpenMP LavaMD (sec)	471.34
Standard Deviation	0.1%
Rodinia - OpenMP CFD Solver	114.02
(sec)	
Standard Deviation	0.1%
Rodinia - O.S (sec)	55.31
Standard Deviation	0.2%
CP2K Molecular Dynamics -	
Fayalite-FIST Data (sec)	866.15
GROMACS - Water Benchmark	0.24
(Ns/Day)	
Standard Deviation	0%
Rust Mandelbrot - T.T.C.S.P.M	147.15
(sec)	
Standard Deviation	0.1%

Rust Prime Benchmark - P.N.T.T.2.0.0 (sec)	72.19
Standard Deviation	0.1%
Schbench - 2 - 2 (usec, 99.9th Latency Percentile)	2503
Standard Deviation	124.3%
Schbench - 2 - 4 (usec, 99.9th Latency Percentile)	14675
Standard Deviation	9.1%
Schbench - 2 - 6 (usec, 99.9th Latency Percentile)	38293
Standard Deviation	3.3%
Schbench - 2 - 8 (usec, 99.9th Latency Percentile)	45803
Standard Deviation	1.2%
Schbench - 4 - 2 (usec, 99.9th Latency Percentile)	16829
Standard Deviation	7.4%
Schbench - 4 - 4 (usec, 99.9th Latency Percentile)	41963
Standard Deviation	3.1%
Schbench - 4 - 6 (usec, 99.9th Latency Percentile)	56811
Standard Deviation	6.5%
Schbench - 4 - 8 (usec, 99.9th Latency Percentile)	91605
Standard Deviation	0.8%
Schbench - 6 - 2 (usec, 99.9th Latency Percentile)	34923
Standard Deviation	2.2%
Schbench - 6 - 4 (usec, 99.9th Latency Percentile)	54848
Standard Deviation	2.1%
Schbench - 6 - 6 (usec, 99.9th Latency Percentile)	103552
Standard Deviation	0.9%
Schbench - 6 - 8 (usec, 99.9th Latency Percentile)	134955
Standard Deviation	2.7%
Schbench - 8 - 2 (usec, 99.9th Latency Percentile)	39659
Standard Deviation	2.7%
Schbench - 8 - 4 (usec, 99.9th Latency Percentile)	82517
Standard Deviation	10.2%
Schbench - 8 - 6 (usec, 99.9th Latency Percentile)	129941
Standard Deviation	3.7%
Schbench - 8 - 8 (usec, 99.9th Latency Percentile)	168960
Standard Deviation	6.6%

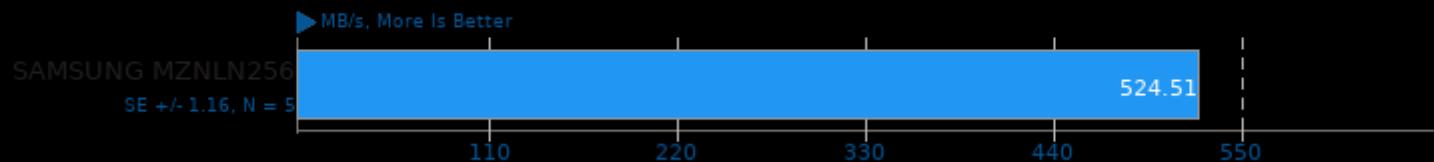
Schbench - 16 - 2 (usec, 99.9th Latency Percentile)	55360
Standard Deviation	1.6%
Schbench - 16 - 4 (usec, 99.9th Latency Percentile)	171093
Standard Deviation	1.5%
Schbench - 16 - 6 (usec, 99.9th Latency Percentile)	243584
Standard Deviation	6.6%
Schbench - 16 - 8 (usec, 99.9th Latency Percentile)	316587
Standard Deviation	1.8%
Schbench - 2 - 16 (usec, 99.9th Latency Percentile)	93653
Standard Deviation	5.5%
Schbench - 2 - 24 (usec, 99.9th Latency Percentile)	128192
Standard Deviation	3.8%
Schbench - 2 - 32 (usec, 99.9th Latency Percentile)	169472
Standard Deviation	5.8%
Schbench - 32 - 2 (usec, 99.9th Latency Percentile)	150443
Standard Deviation	3.5%
Schbench - 32 - 4 (usec, 99.9th Latency Percentile)	328192
Standard Deviation	2.4%
Schbench - 32 - 6 (usec, 99.9th Latency Percentile)	552619
Standard Deviation	3%
Schbench - 32 - 8 (usec, 99.9th Latency Percentile)	703147
Standard Deviation	6.1%
Schbench - 4 - 16 (usec, 99.9th Latency Percentile)	170069
Standard Deviation	6.3%
Schbench - 4 - 24 (usec, 99.9th Latency Percentile)	243456
Standard Deviation	3.9%
Schbench - 4 - 32 (usec, 99.9th Latency Percentile)	361301
Standard Deviation	2.7%
Schbench - 6 - 16 (usec, 99.9th Latency Percentile)	243840
Standard Deviation	3.3%
Schbench - 6 - 24 (usec, 99.9th Latency Percentile)	404309
Standard Deviation	1.2%
Schbench - 6 - 32 (usec, 99.9th Latency Percentile)	568320
Standard Deviation	3.4%

Schbench - 8 - 16 (usec, 99.9th Latency Percentile)	354816
Standard Deviation	2.8%
Schbench - 8 - 24 (usec, 99.9th Latency Percentile)	541696
Standard Deviation	3.3%
Schbench - 8 - 32 (usec, 99.9th Latency Percentile)	701440
Standard Deviation	3.8%
Schbench - 16 - 16 (usec, 99.9th Latency Percentile)	715776
Standard Deviation	9.1%
Schbench - 16 - 24 (usec, 99.9th Latency Percentile)	1040384
Standard Deviation	3%
Schbench - 16 - 32 (usec, 99.9th Latency Percentile)	1374208
Standard Deviation	3.4%
Schbench - 32 - 16 (usec, 99.9th Latency Percentile)	1313451
Standard Deviation	5.5%
Schbench - 32 - 24 (usec, 99.9th Latency Percentile)	2069163
Standard Deviation	18%
Schbench - 32 - 32 (usec, 99.9th Latency Percentile)	2688341
Standard Deviation	13.4%
Scikit-Learn (sec)	42.36
Standard Deviation	0.5%
SciMark - Composite (Mflops)	420.35
Standard Deviation	0.4%
SciMark - Monte Carlo (Mflops)	95.40
Standard Deviation	0.6%
SciMark - F.F.T (Mflops)	120.72
Standard Deviation	0.2%
SciMark - S.M.M (Mflops)	498.72
Standard Deviation	0.5%
SciMark - D.L.M.F (Mflops)	604.12
Standard Deviation	0.5%
SciMark - J.S.O.R (Mflops)	782.81
Standard Deviation	0.4%
SHOC Scalable Heterogeneous Computing - OpenCL - Triad (GB/s)	7.15
Standard Deviation	0.2%
SHOC Scalable Heterogeneous Computing - OpenCL - FFT SP (GFLOPS)	0.99
Standard Deviation	0%

SHOC Scalable Heterogeneous Computing - OpenCL - MD5 Hash (GHash/s)	0.02
Standard Deviation	0%
SHOC Scalable Heterogeneous Computing - OpenCL - Max SP Flops (GFLOPS)	74.00
Standard Deviation	2.9%
SHOC Scalable Heterogeneous Computing - OpenCL - Bus Speed Download (GB/s)	14.76
Standard Deviation	5%
SHOC Scalable Heterogeneous Computing - OpenCL - Bus Speed Readback (GB/s)	14.15
Standard Deviation	3%
SHOC Scalable Heterogeneous Computing - OpenCL - T.R.B (GB/s)	2.14
Standard Deviation	0.2%
Smallpt - G.I.R.1.S (sec)	73.70
Standard Deviation	0.1%

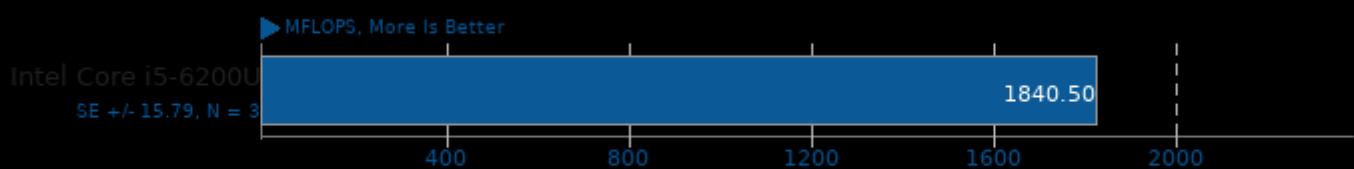
hdparm Timed Disk Reads

Disk To Read: /dev/sda



Himeno Benchmark 3.0

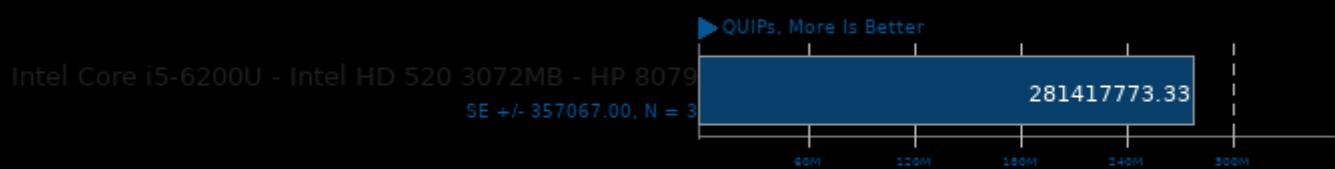
Poisson Pressure Solver



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

Hierarchical INTegration 1.0

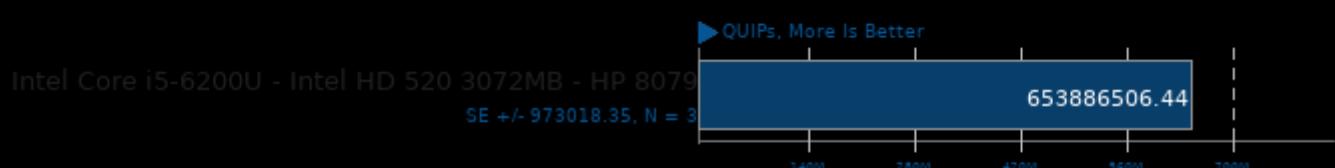
Test: FLOAT



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

Hierarchical INTegration 1.0

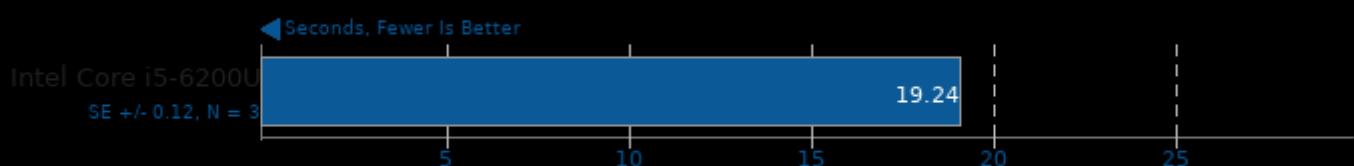
Test: DOUBLE



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

Timed HMMer Search 2.3.2

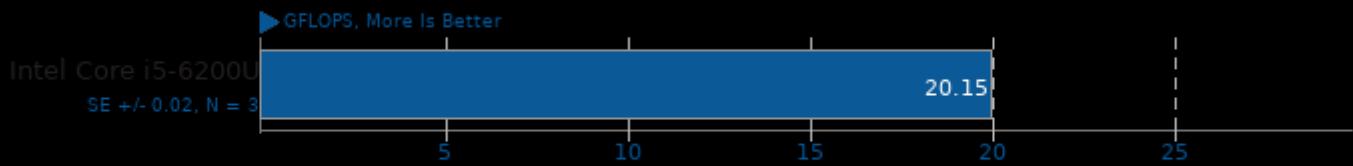
Pfam Database Search



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

HPC Challenge 1.5.0

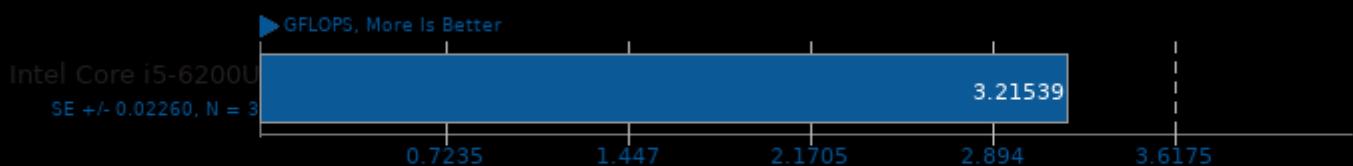
Test / Class: G-HPL



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops
2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

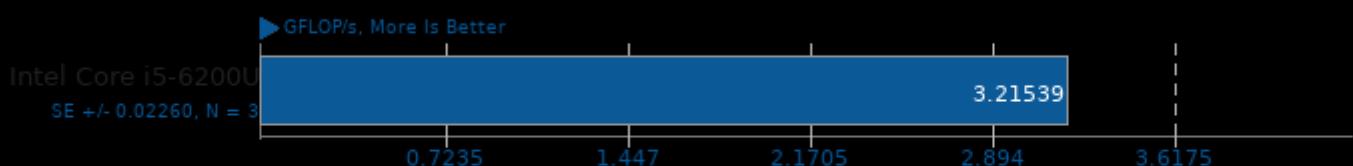
Test / Class: G-Fft



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops
2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

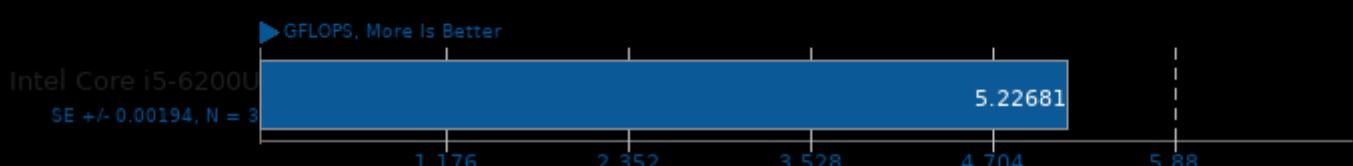
Test / Class: G-Fft



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops
2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

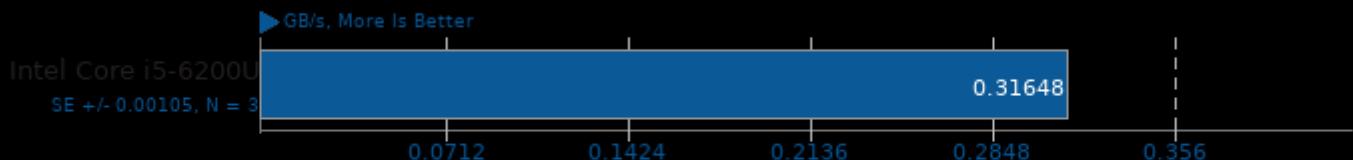
Test / Class: EP-DGEMM



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops
2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

Test / Class: G-Ptrans

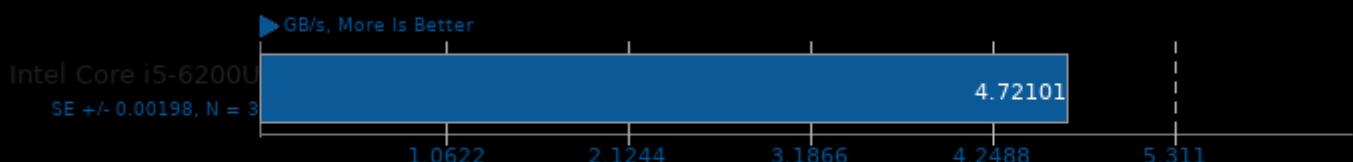


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops

2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

Test / Class: EP-STREAM Triad

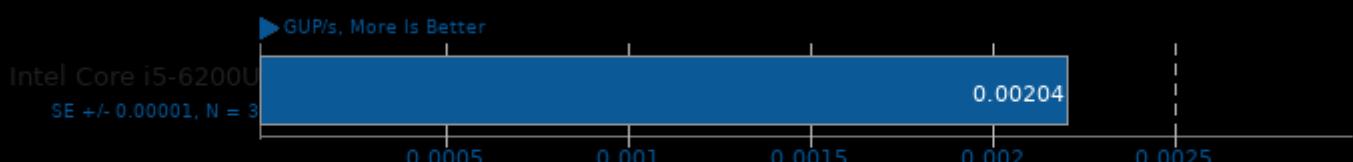


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops

2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

Test / Class: G-Random Access

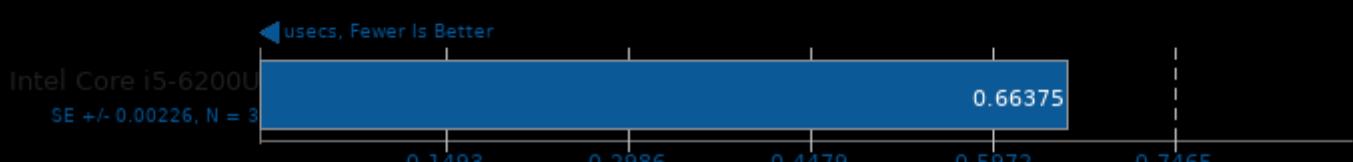


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops

2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

Test / Class: Random Ring Latency

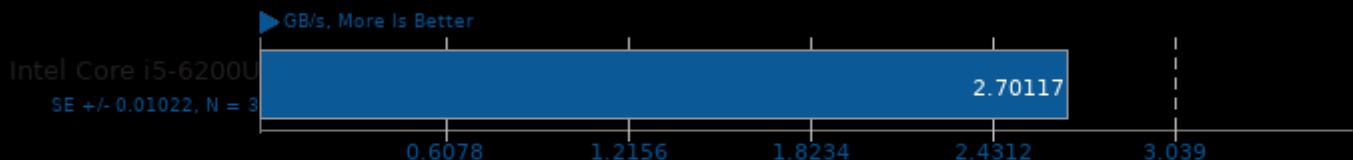


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops

2. ATLAS + Open MPI 2.1.1

HPC Challenge 1.5.0

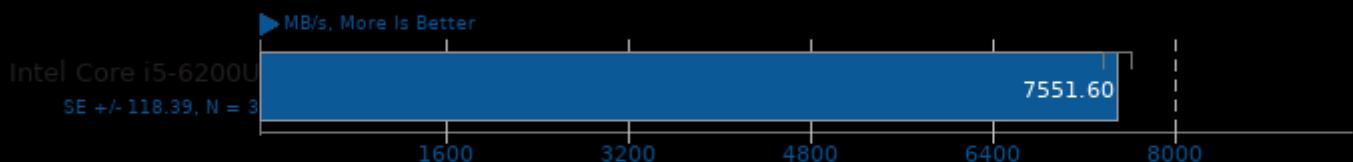
Test / Class: Random Ring Bandwidth



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops
2. ATLAS + Open MPI 2.1.1

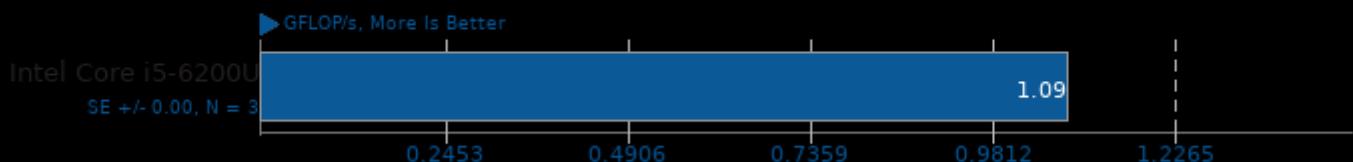
HPC Challenge 1.5.0

Test / Class: Max Ping Pong Bandwidth



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -O3 -march=native -funroll-loops
2. ATLAS + Open MPI 2.1.1

High Performance Conjugate Gradient 3.0



Interbench 0.31

Benchmark: X - Background Load: Burn



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

Interbench 0.31

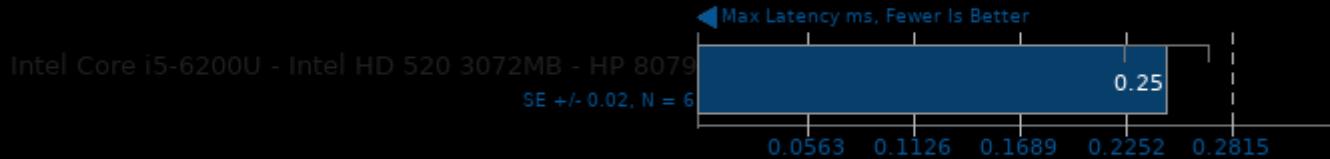
Benchmark: X - Background Load: Read



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

Interbench 0.31

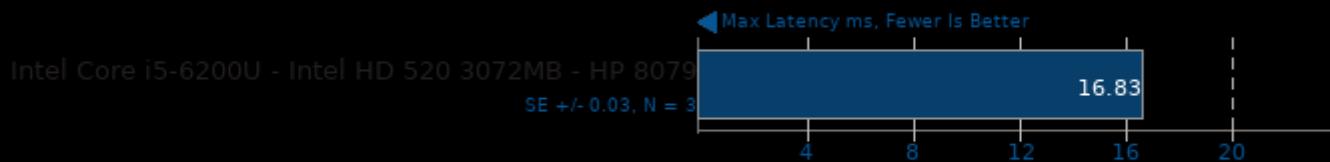
Benchmark: Audio - Background Load: X



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

Interbench 0.31

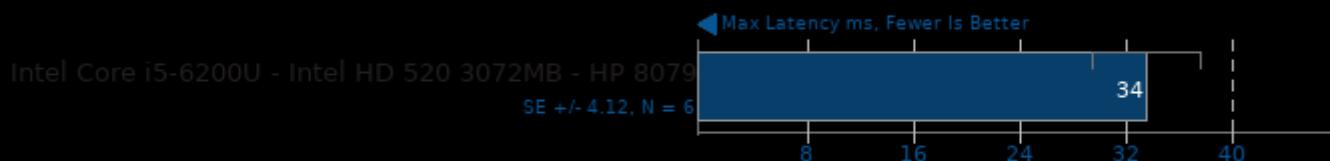
Benchmark: Video - Background Load: X



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

Interbench 0.31

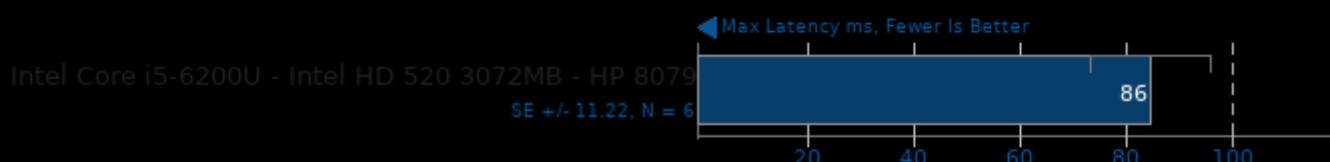
Benchmark: X - Background Load: Video



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

Interbench 0.31

Benchmark: X - Background Load: Write



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

Interbench 0.31

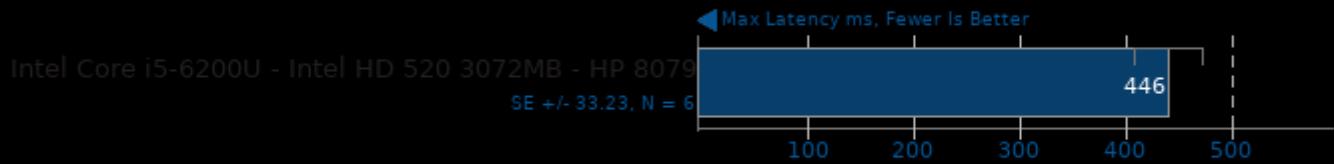
Benchmark: Gaming - Background Load: X



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

Interbench 0.31

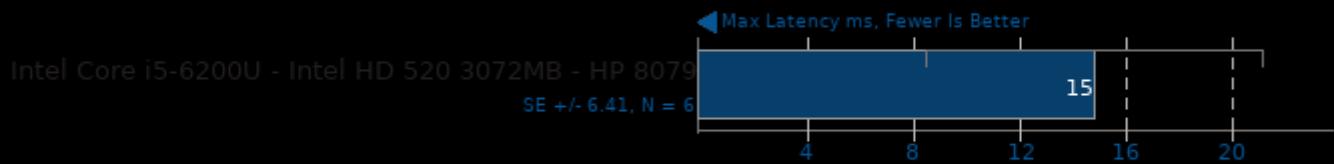
Benchmark: X - Background Load: Compile



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

Interbench 0.31

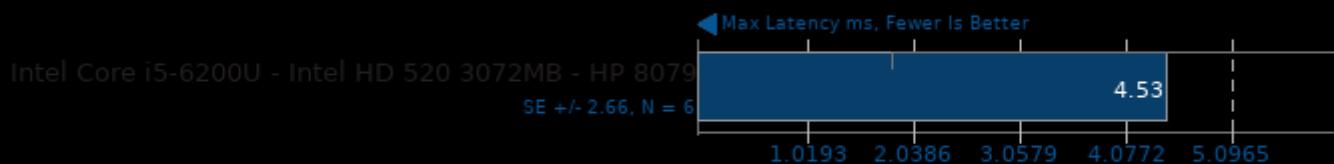
Benchmark: X - Background Load: Memload



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

Interbench 0.31

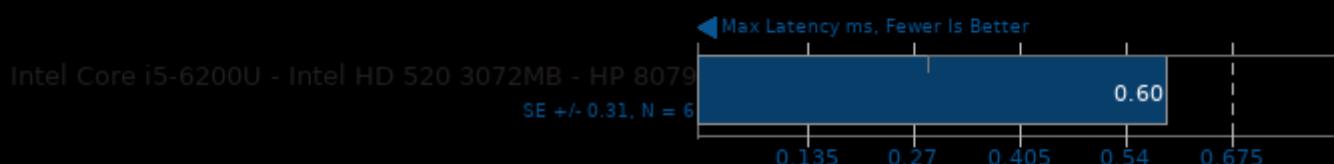
Benchmark: Audio - Background Load: Burn



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

Interbench 0.31

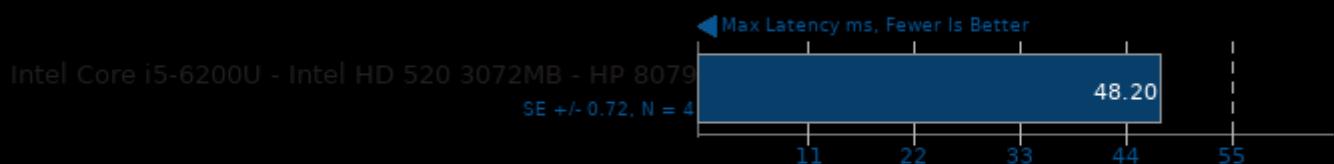
Benchmark: Audio - Background Load: Read



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

Interbench 0.31

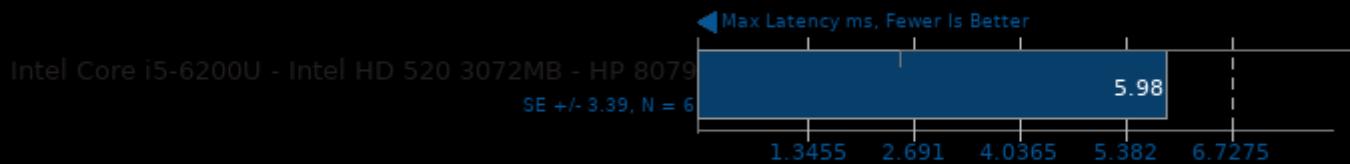
Benchmark: Video - Background Load: Burn



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

Interbench 0.31

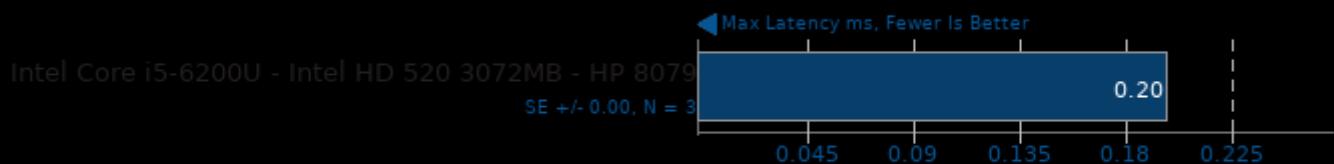
Benchmark: Video - Background Load: Read



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

Interbench 0.31

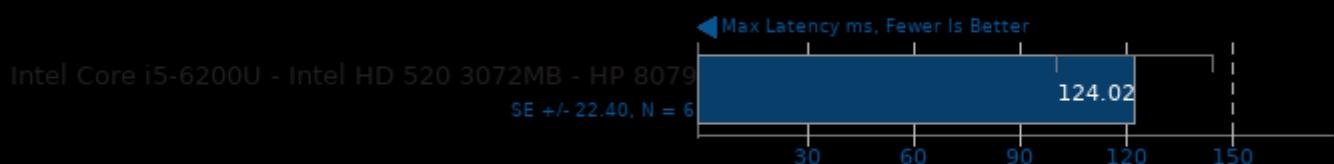
Benchmark: Audio - Background Load: Video



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

Interbench 0.31

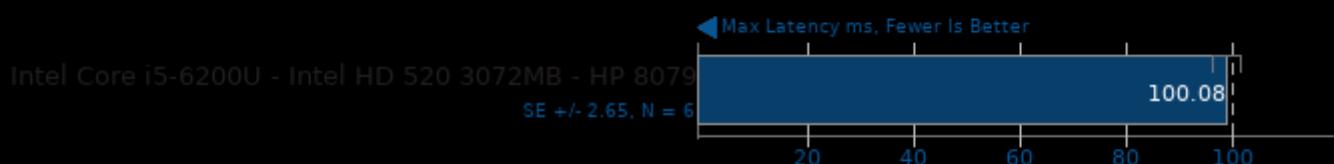
Benchmark: Audio - Background Load: Write



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

Interbench 0.31

Benchmark: Gaming - Background Load: Burn



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

Interbench 0.31

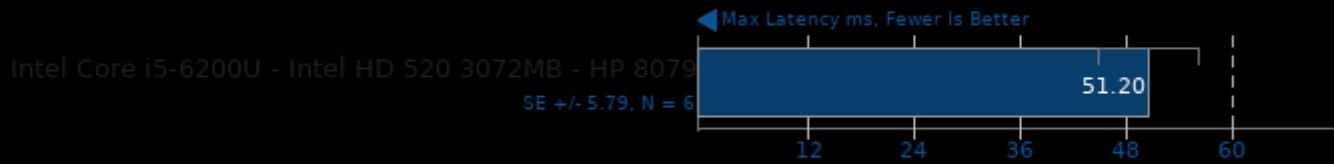
Benchmark: Video - Background Load: Write



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

Interbench 0.31

Benchmark: Gaming - Background Load: Write



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

Interbench 0.31

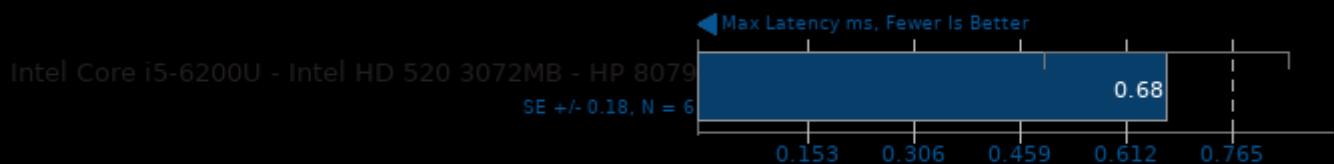
Benchmark: Audio - Background Load: Compile



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

Interbench 0.31

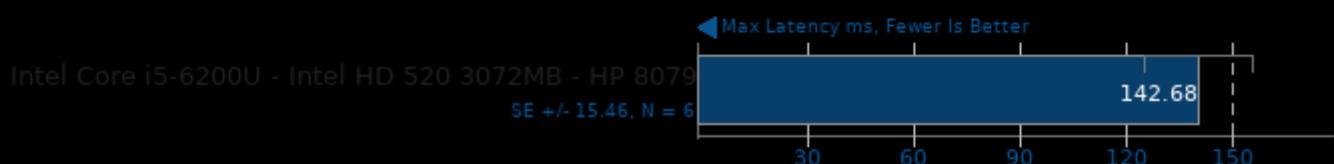
Benchmark: Audio - Background Load: Memload



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

Interbench 0.31

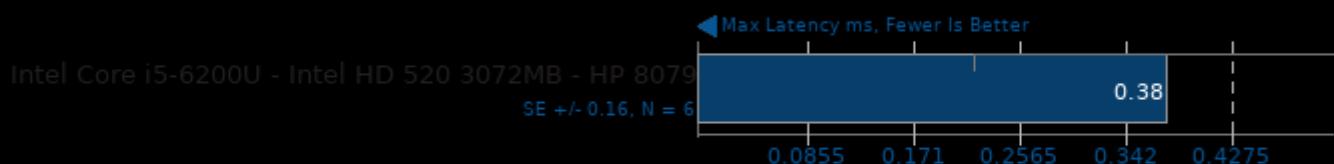
Benchmark: Video - Background Load: Compile



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

Interbench 0.31

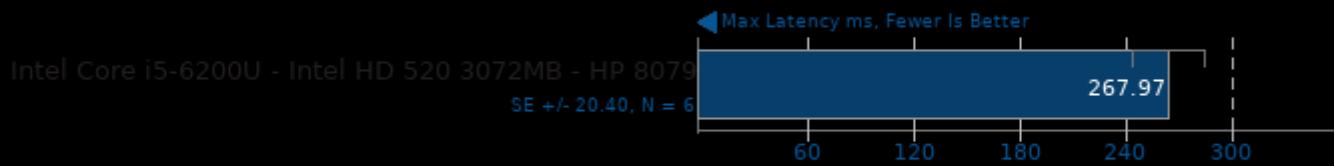
Benchmark: Video - Background Load: Memload



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

Interbench 0.31

Benchmark: Gaming - Background Load: Compile



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

Interbench 0.31

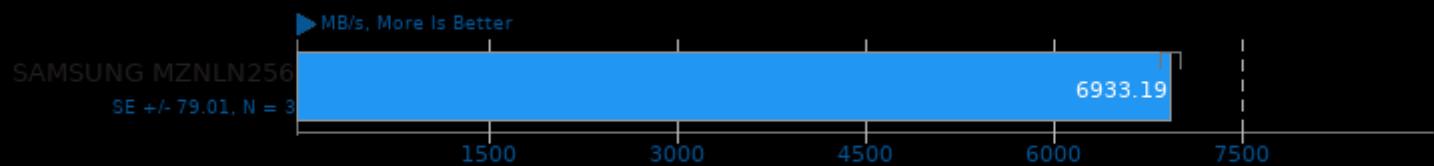
Benchmark: Gaming - Background Load: Memload



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

IOzone 3.465

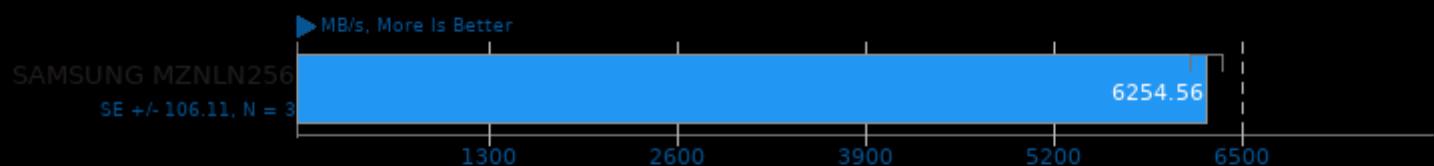
Record Size: 1MB - File Size: 2GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

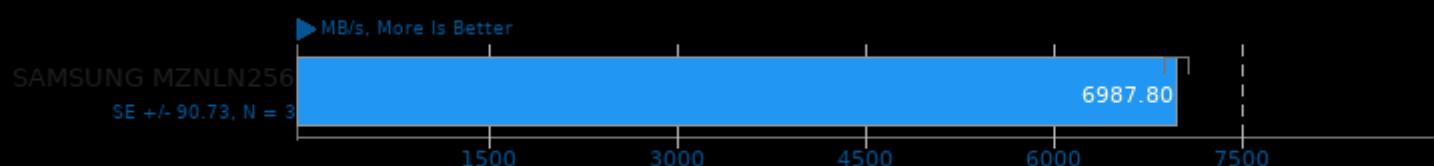
Record Size: 1MB - File Size: 4GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

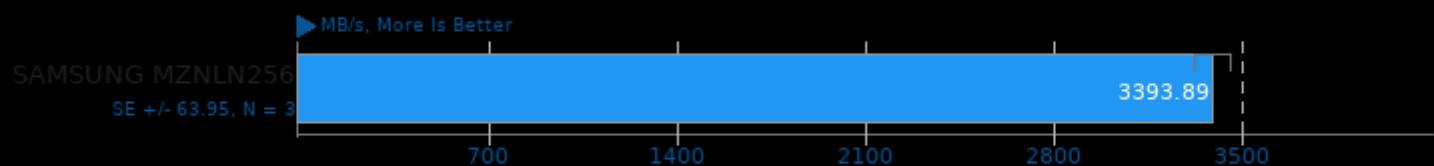
Record Size: 1MB - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

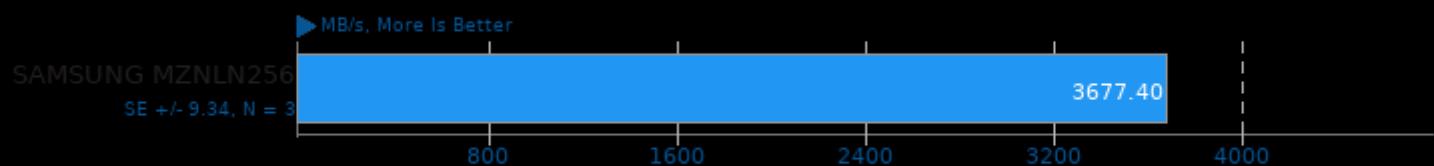
Record Size: 4Kb - File Size: 2GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

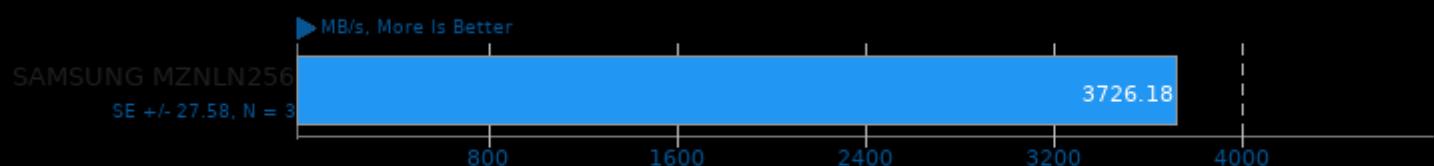
Record Size: 4Kb - File Size: 4GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

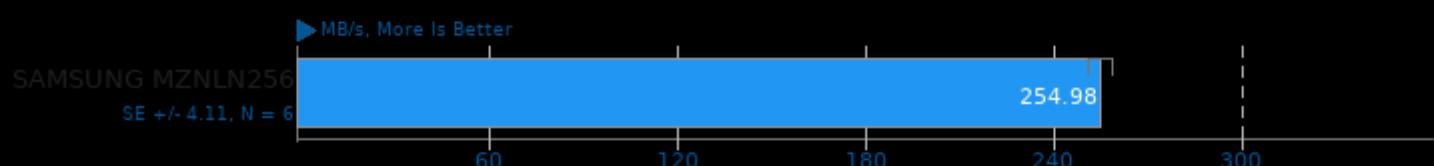
Record Size: 4Kb - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

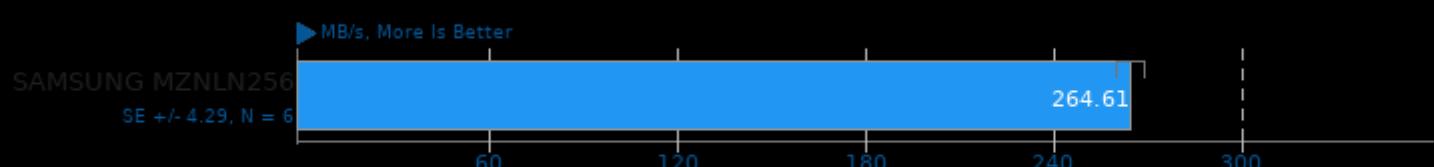
Record Size: 1MB - File Size: 2GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

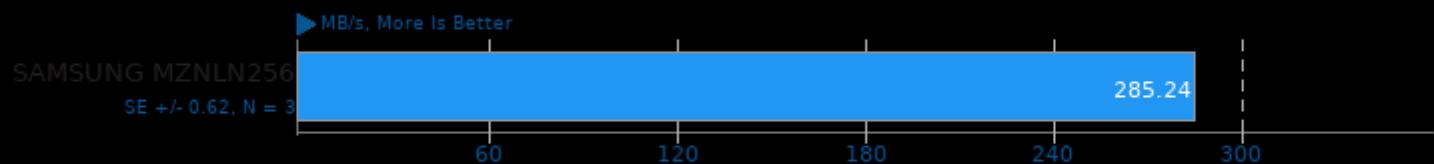
Record Size: 1MB - File Size: 4GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

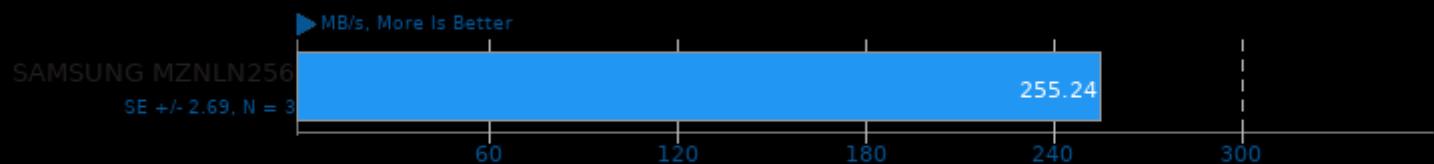
Record Size: 1MB - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

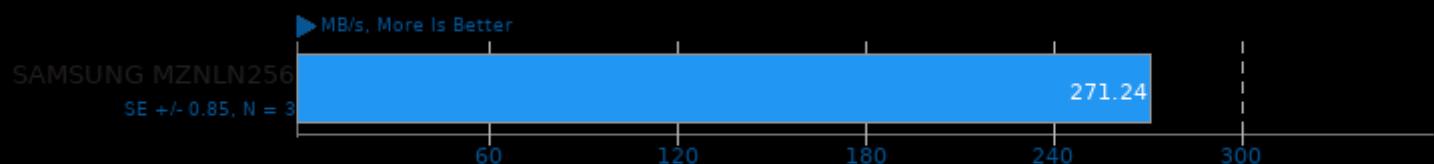
Record Size: 4Kb - File Size: 2GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

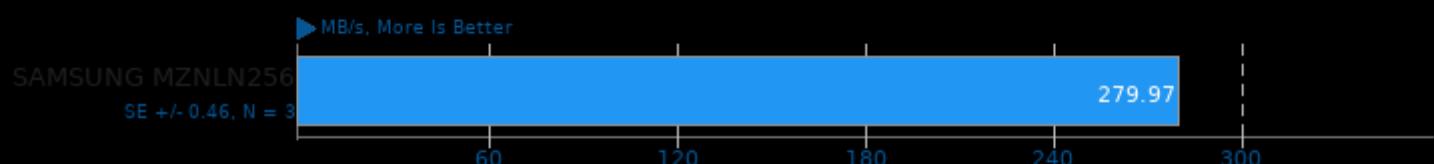
Record Size: 4Kb - File Size: 4GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

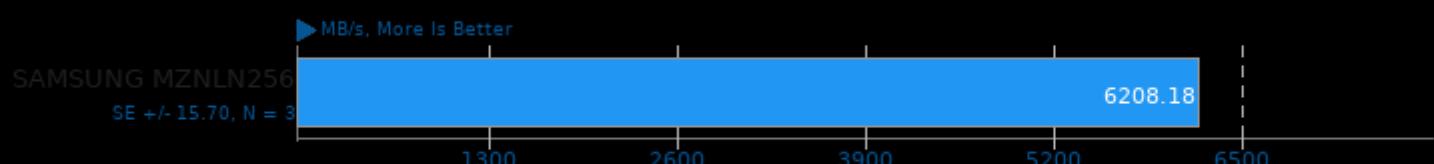
Record Size: 4Kb - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

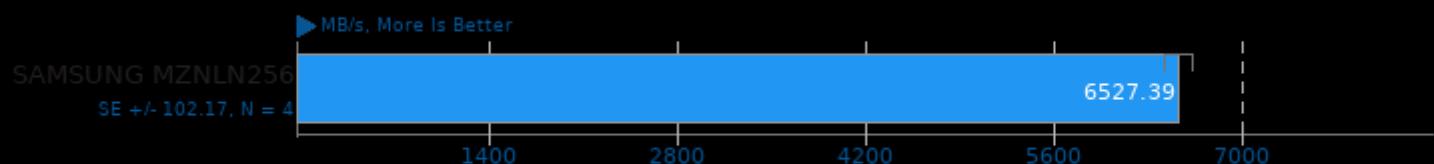
Record Size: 64Kb - File Size: 2GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

|Ozone 3.465

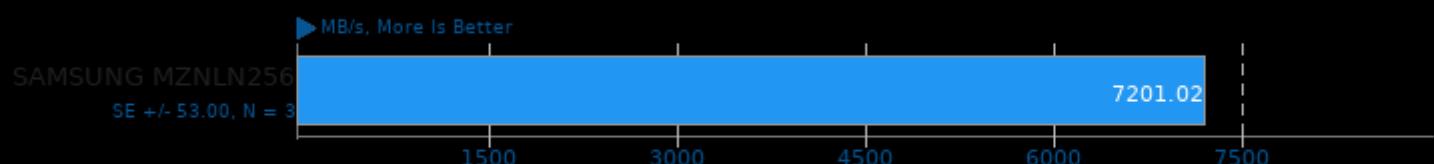
Record Size: 64Kb - File Size: 4GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

|Ozone 3.465

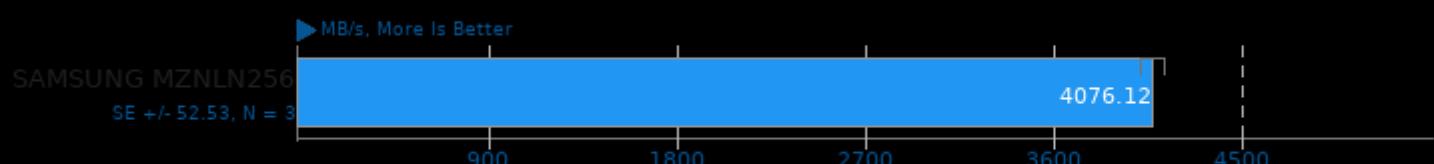
Record Size: 64Kb - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

|Ozone 3.465

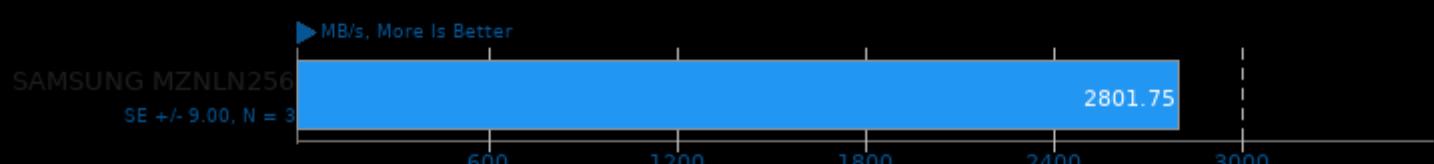
Record Size: 1MB - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

|Ozone 3.465

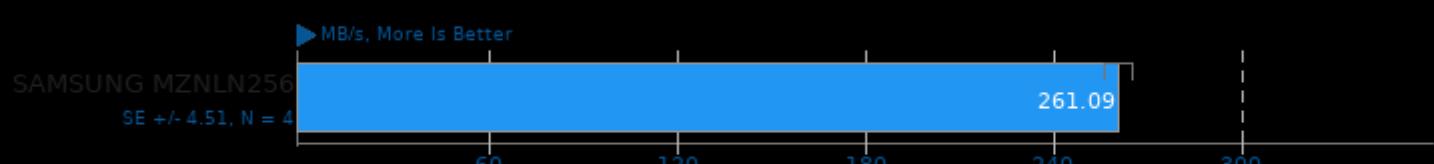
Record Size: 4Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

|Ozone 3.465

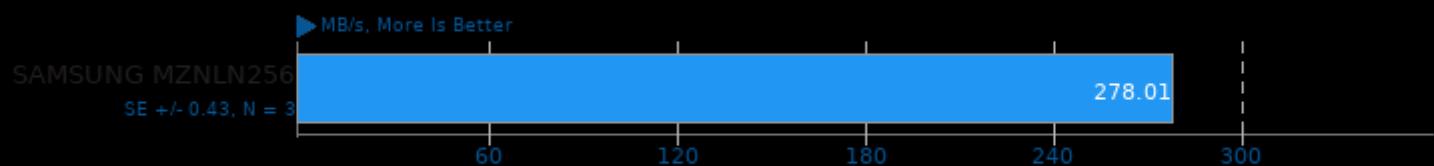
Record Size: 64Kb - File Size: 2GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

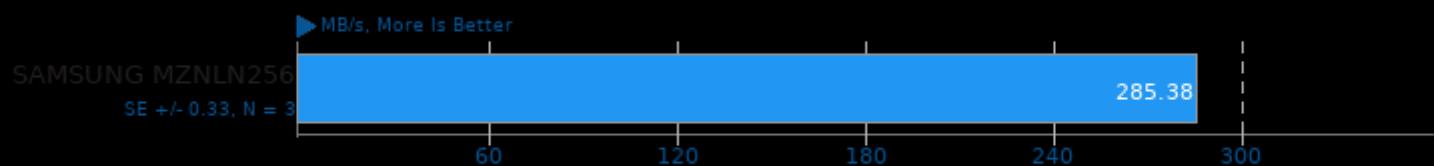
Record Size: 64Kb - File Size: 4GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

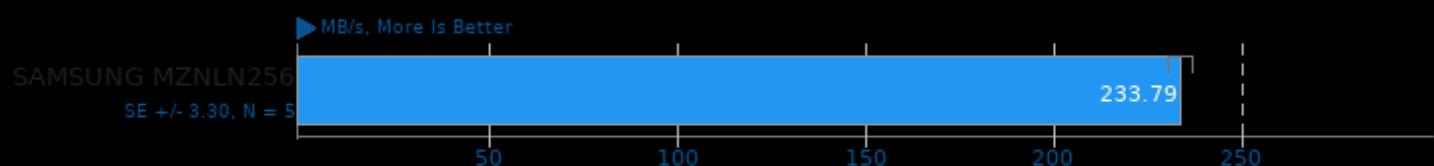
Record Size: 64Kb - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

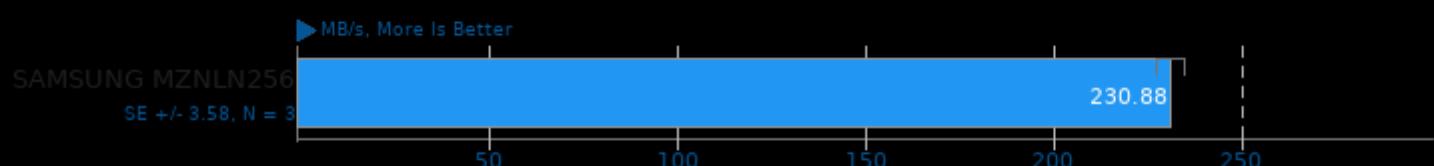
Record Size: 1MB - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

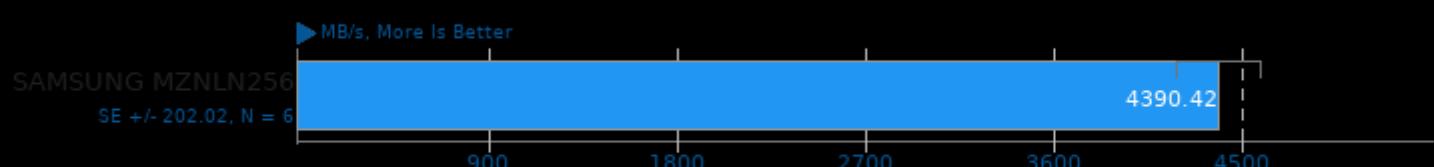
Record Size: 4Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

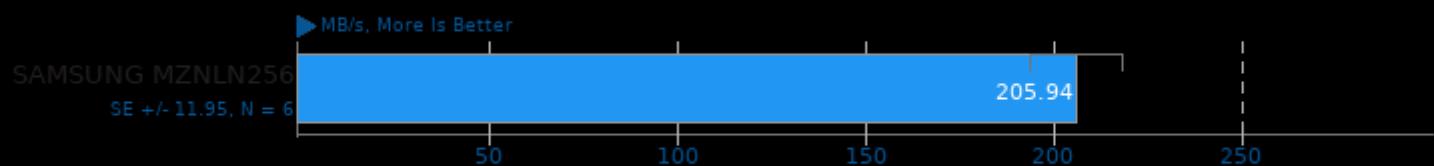
Record Size: 64Kb - File Size: 512MB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

Record Size: 64Kb - File Size: 512MB - Disk Test: Write Performance



1. (CC) gcc options: -O3

Java 2D Microbenchmark 1.0

Rendering Test: Text Rendering



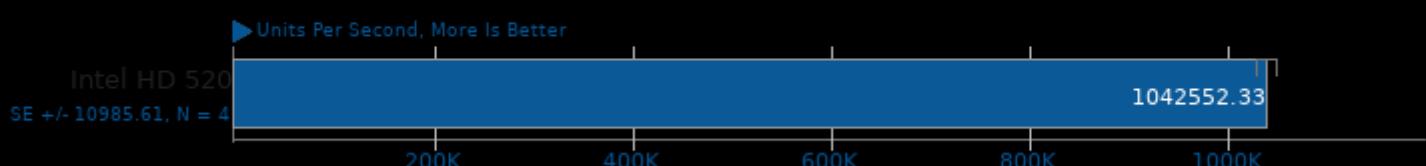
Java 2D Microbenchmark 1.0

Rendering Test: Image Rendering



Java 2D Microbenchmark 1.0

Rendering Test: All Rendering Tests



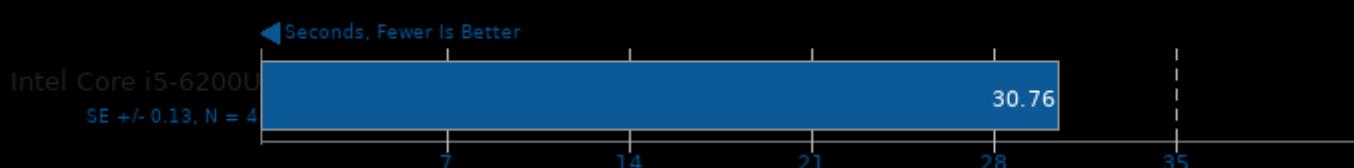
Java 2D Microbenchmark 1.0

Rendering Test: Vector Graphics Rendering



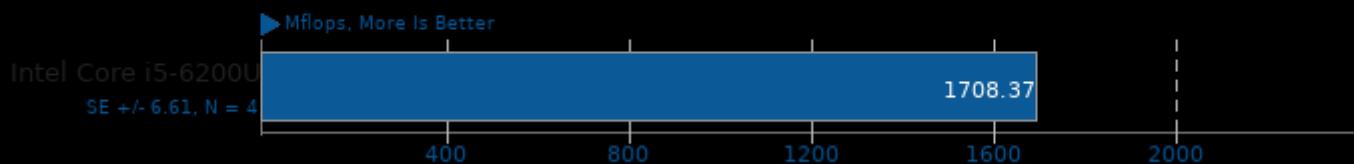
Java Gradle Build 1.0

Gradle Build: Reactor



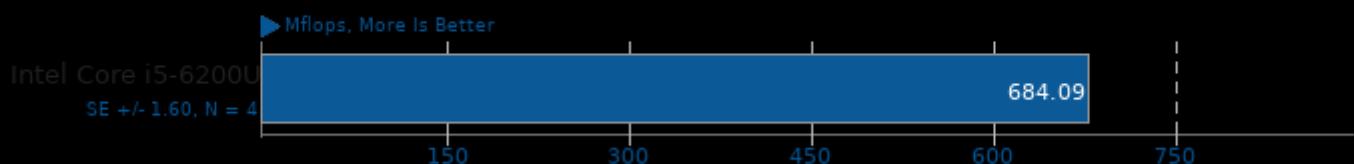
Java SciMark 2.0

Computational Test: Composite



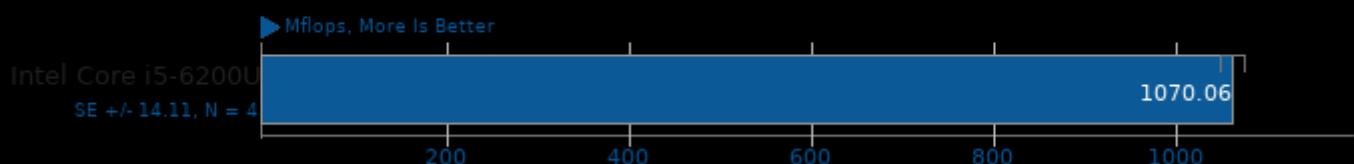
Java SciMark 2.0

Computational Test: Monte Carlo



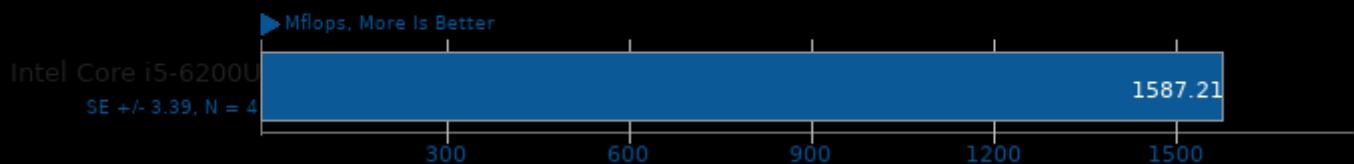
Java SciMark 2.0

Computational Test: Fast Fourier Transform



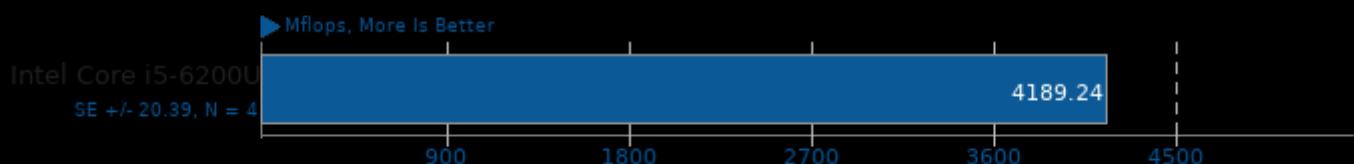
Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



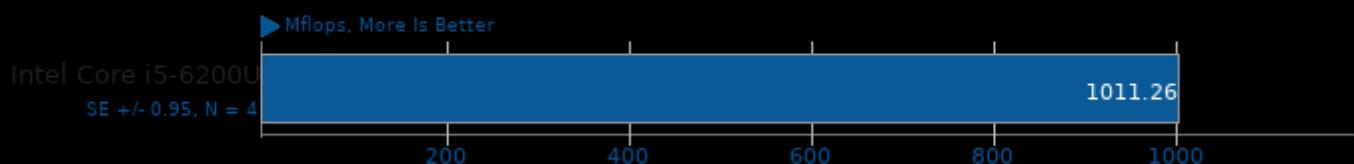
Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



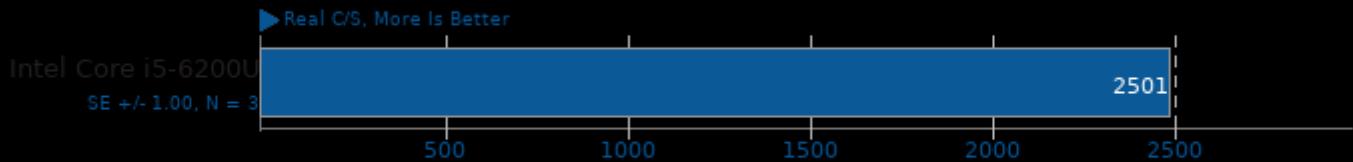
Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



John The Ripper 1.8.0-jumbo-1

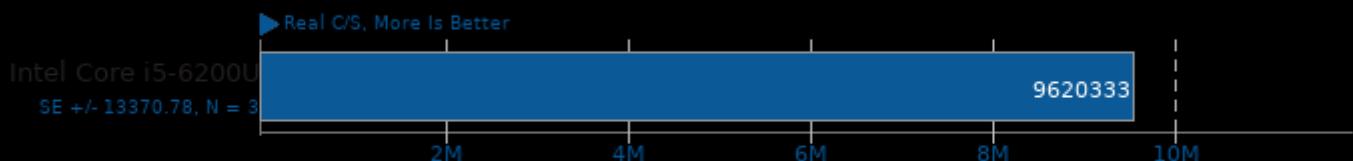
Test: Blowfish



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

John The Ripper 1.8.0-jumbo-1

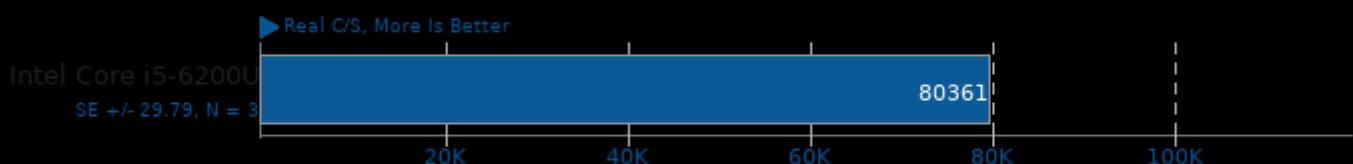
Test: Traditional DES



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

John The Ripper 1.8.0-jumbo-1

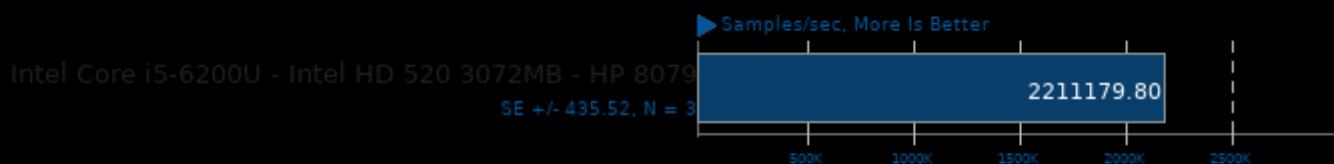
Test: MD5



1. (CC) gcc options: -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

JuliaGPU 1.2pts1

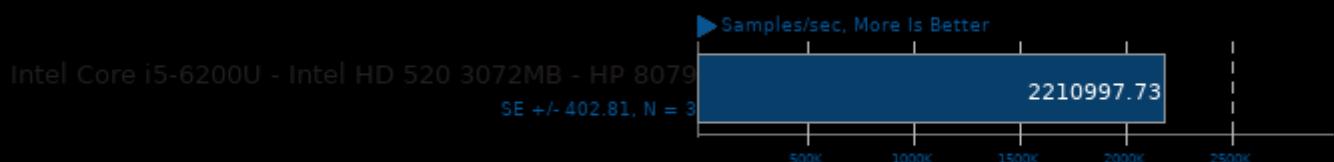
OpenCL Device: CPU



1. (CC) gcc options: -O3 -march=native -fno-strict-aliasing -funroll-loops -lglut -lOpenCL -lGL -lm

JuliaGPU 1.2pts1

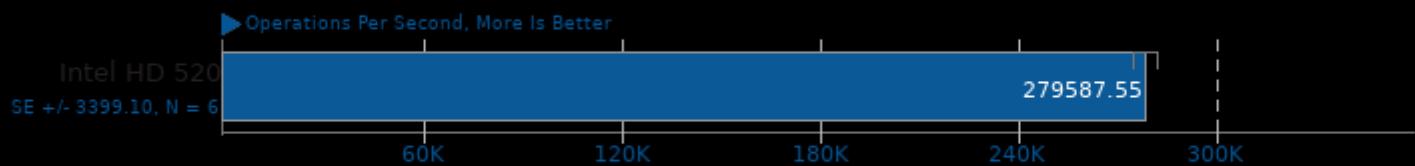
OpenCL Device: CPU+GPU



1. (CC) gcc options: -O3 -march=native -fno-strict-aliasing -funroll-loops -lglut -lOpenCL -lGL -lm

JXRenderMark 1.0.1

Test: Simple Blit - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

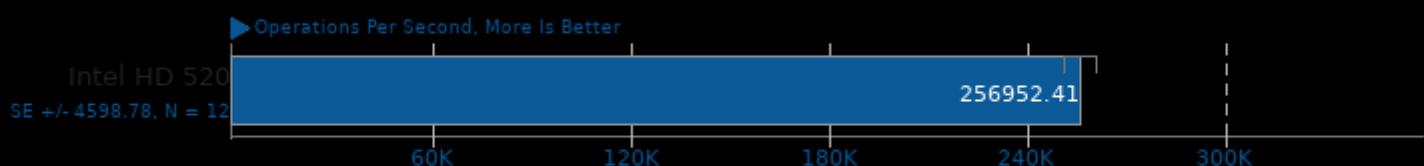
Test: 12pt Text LCD - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

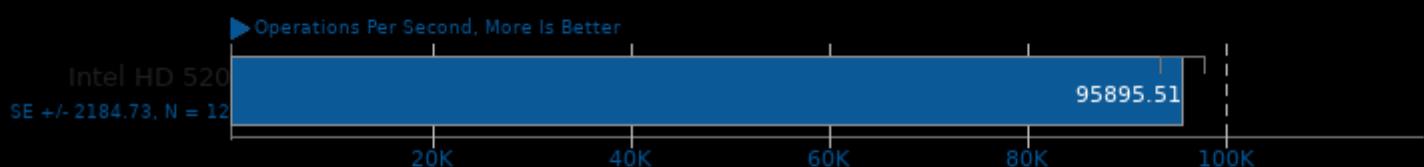
Test: Simple Blit - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Simple Blit - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

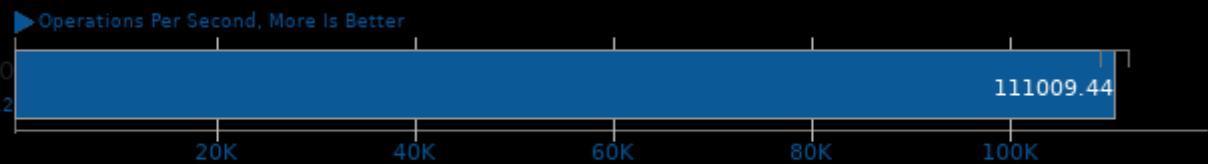
Test: Simple Blit - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text LCD - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text LCD - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text LCD - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Put Composition - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Simple Blit - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text LCD - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Put Composition - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Put Composition - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Put Composition - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Rects Composition - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text Grayscale - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Put Composition - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Rects Composition - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Rects Composition - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Rects Composition - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text Grayscale - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text Grayscale - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text Grayscale - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Gradient+Temp Texture - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Linear Gradient Blend - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Radial Gradient Paint - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Rects Composition - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: 12pt Text Grayscale - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Gradient+Temp Texture - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

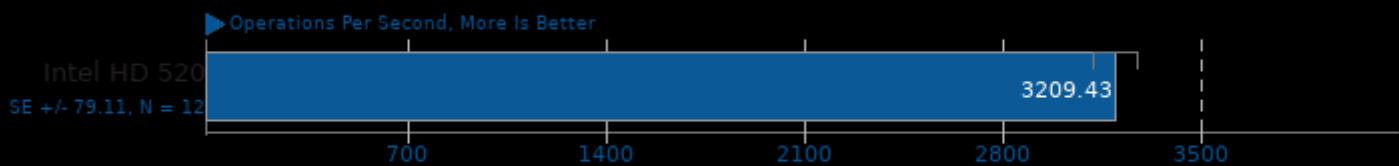
Test: Gradient+Temp Texture - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Gradient+Temp Texture - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Linear Gradient Blend - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Linear Gradient Blend - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Linear Gradient Blend - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Radial Gradient Paint - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Radial Gradient Paint - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Radial Gradient Paint - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Transformed Blit Linear - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Gradient+Temp Texture - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

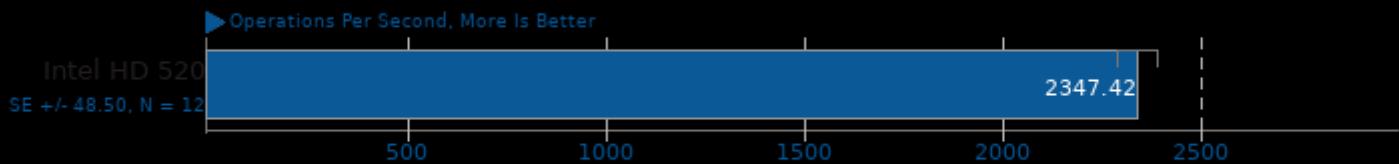
Test: Linear Gradient Blend - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

Test: Radial Gradient Paint - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

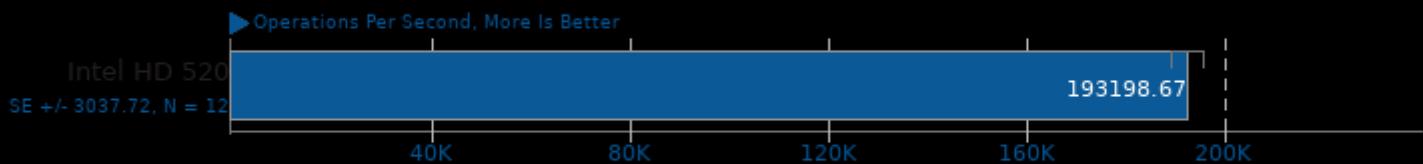
Test: Transformed Blit Bilinear - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

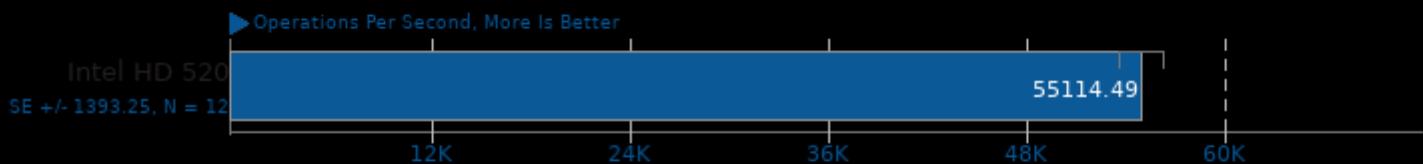
Test: Transformed Blit Linear - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

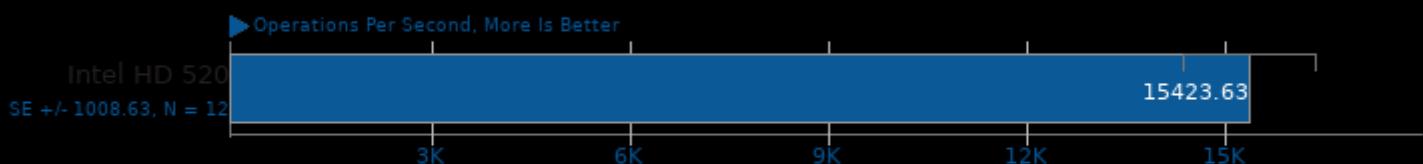
Test: Transformed Blit Linear - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

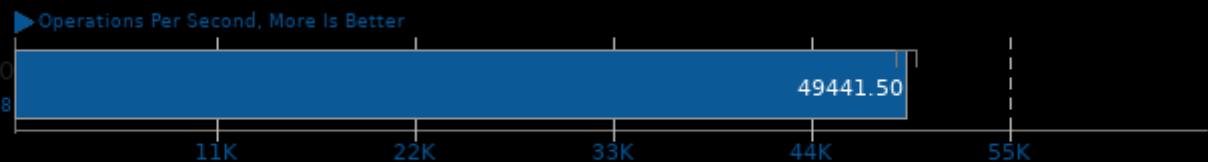
Test: Transformed Blit Linear - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

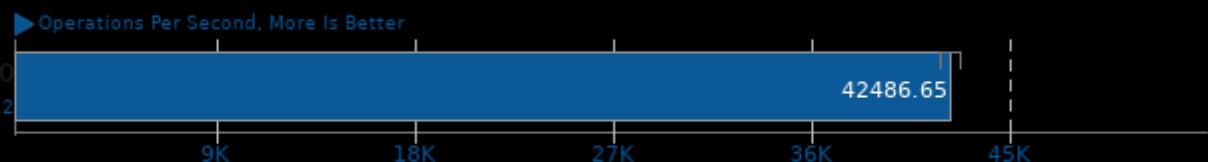
Test: Transformed Texture Paint - Size: 32x32



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

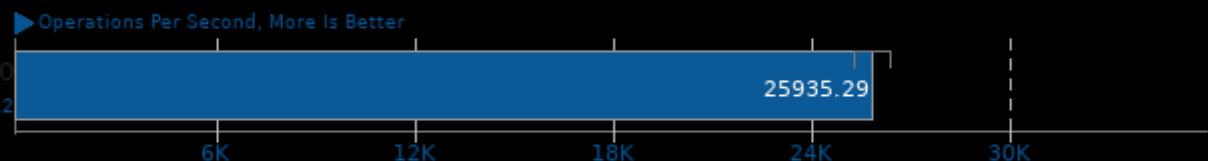
Test: Transformed Blit Bilinear - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

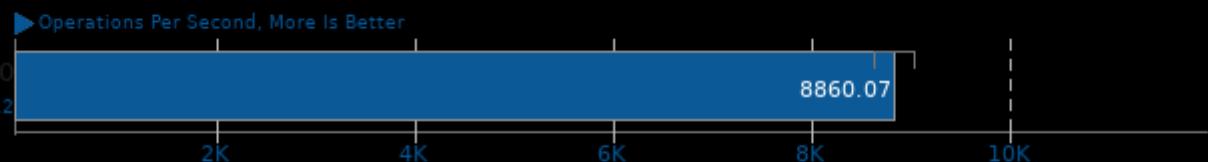
Test: Transformed Blit Bilinear - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

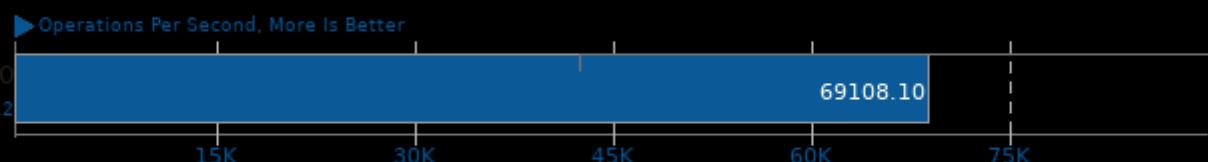
Test: Transformed Blit Bilinear - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

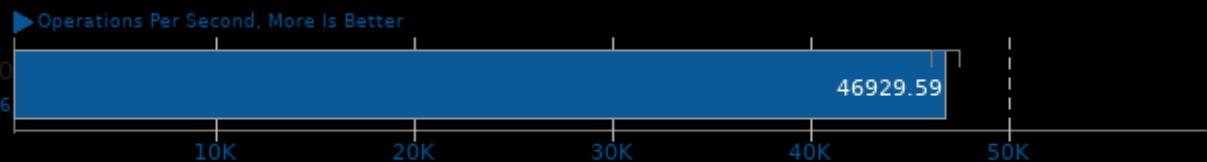
Test: Transformed Blit Linear - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

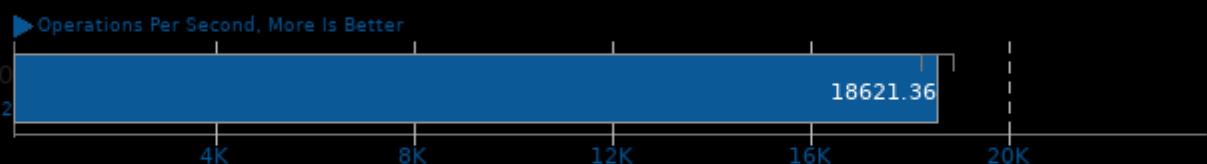
Test: Transformed Texture Paint - Size: 128x128



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

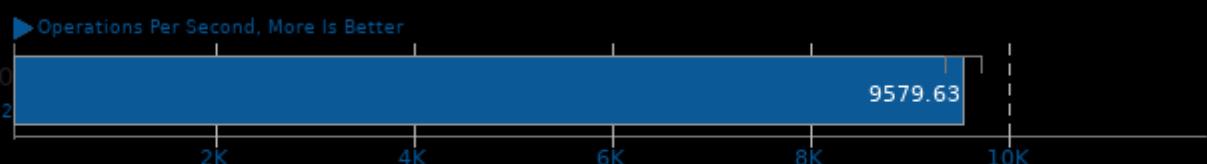
Test: Transformed Texture Paint - Size: 256x256



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

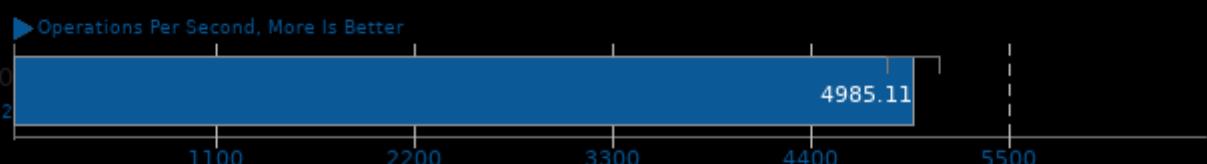
Test: Transformed Texture Paint - Size: 512x512



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

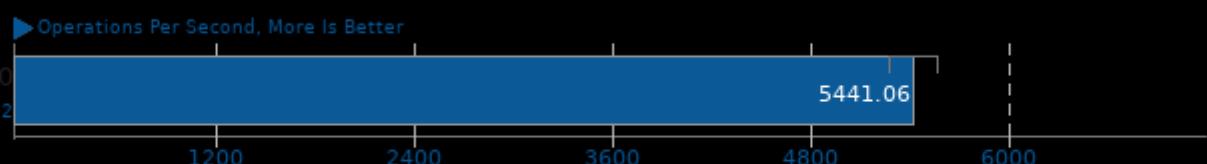
Test: Transformed Blit Bilinear - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

JXRenderMark 1.0.1

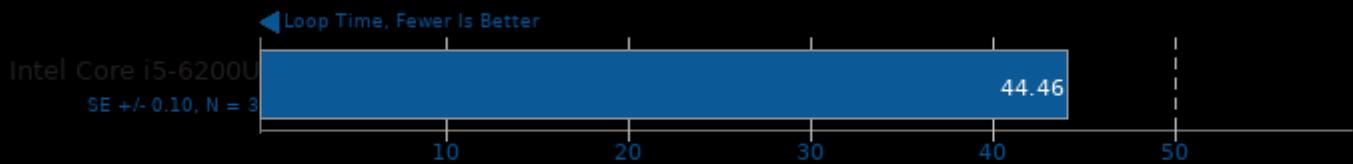
Test: Transformed Texture Paint - Size: 1024x1024



1. (CC) gcc options: -lX11 -lXrender

LAMMPS Molecular Dynamics Simulator 1.0

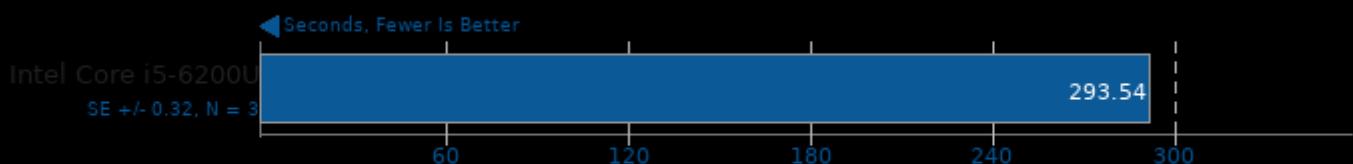
Test: Rhodopsin Protein



1. (CXX) g++ options: -fftw -fmpich

LLVM Test Suite 6.0.0

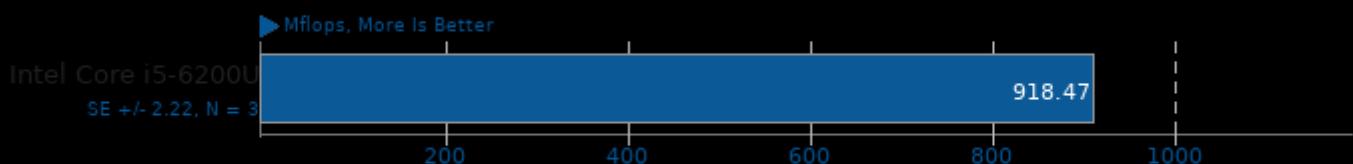
Time To Run



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

LuaJIT 2.1-git

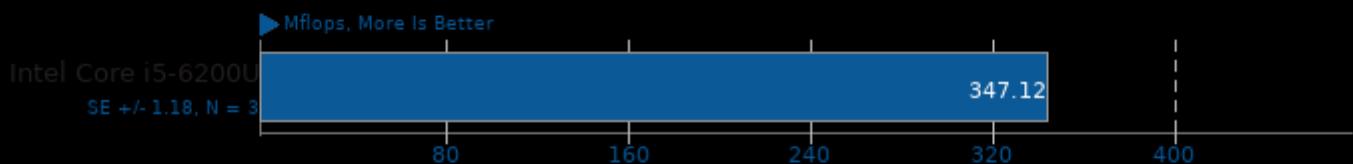
Test: Composite



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

LuaJIT 2.1-git

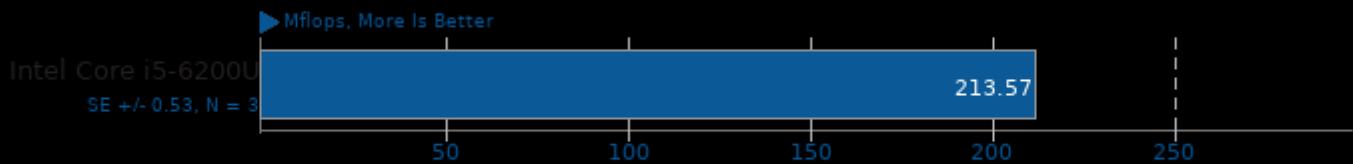
Test: Monte Carlo



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

LuaJIT 2.1-git

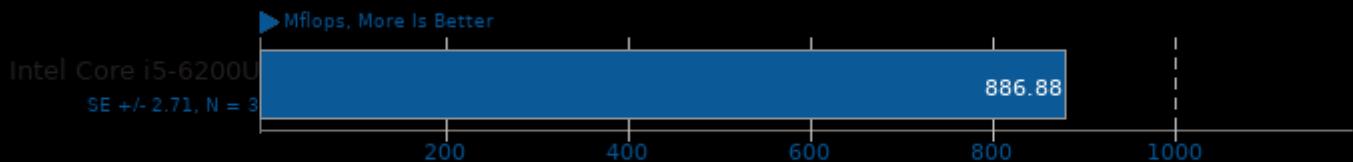
Test: Fast Fourier Transform



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

LuaJIT 2.1-git

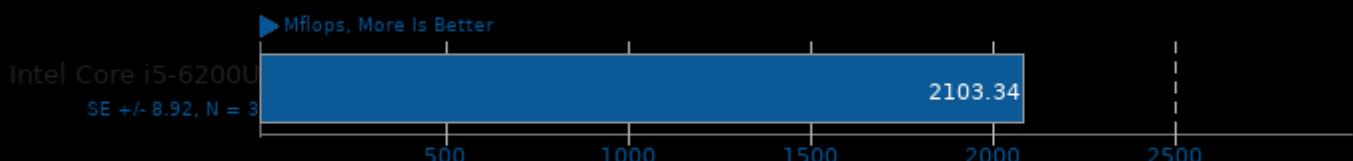
Test: Sparse Matrix Multiply



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

LuaJIT 2.1-git

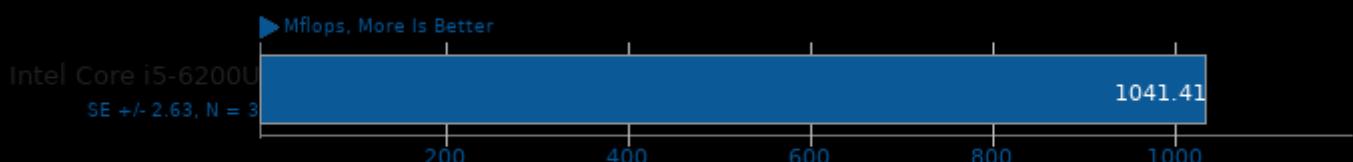
Test: Dense LU Matrix Factorization



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

LuaJIT 2.1-git

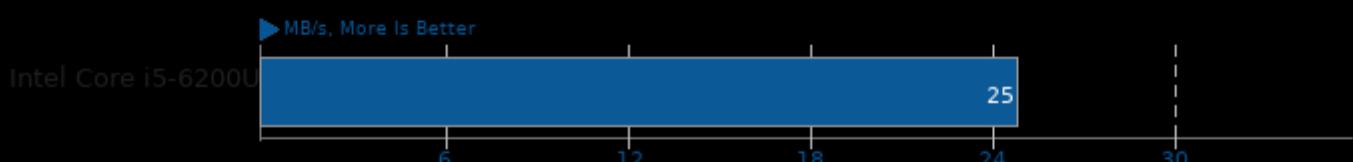
Test: Jacobi Successive Over-Relaxation



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

Izbench 2017-08-08

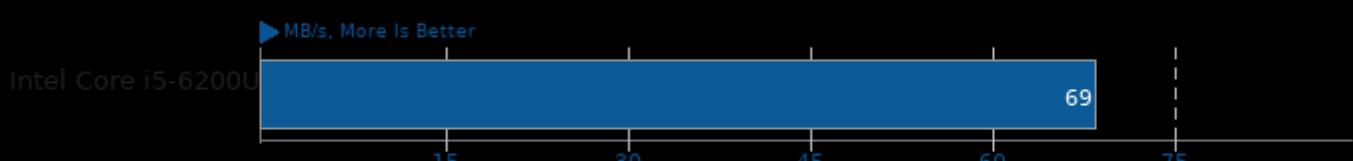
Test: XZ 0 - Process: Compression



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

Izbench 2017-08-08

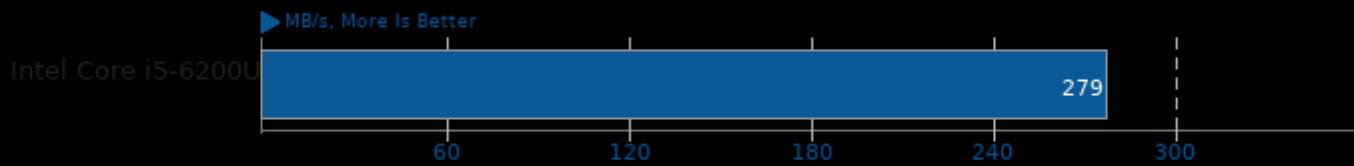
Test: XZ 0 - Process: Decompression



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

Izbench 2017-08-08

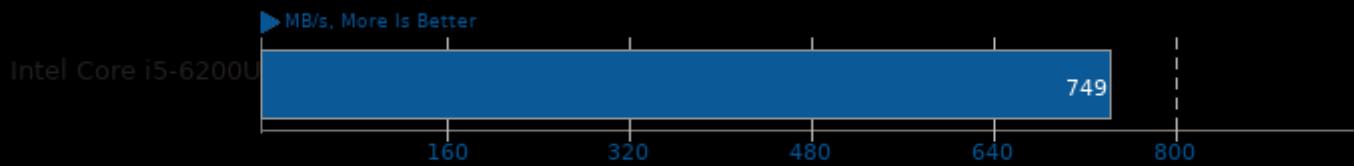
Test: Zstd 1 - Process: Compression



1. (CXX) g++ options: -fno-rtti -fno-exceptions -fno-threadsafe-statics -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 2017-08-08

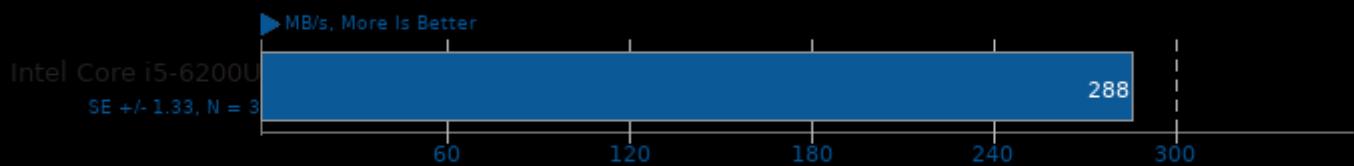
Test: Zstd 1 - Process: Decompression



1. (CXX) g++ options: -fno-rtti -fno-exceptions -fno-threadsafe-statics -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 2017-08-08

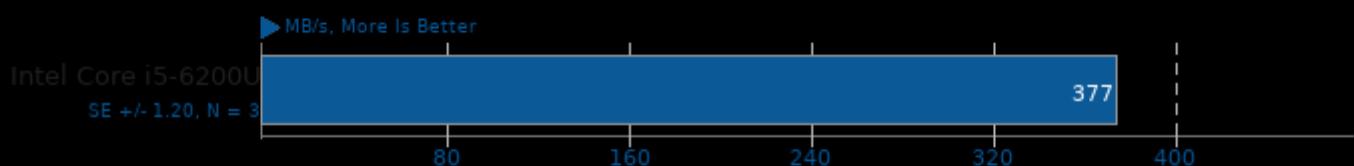
Test: Brotli 0 - Process: Compression



1. (CXX) g++ options: -fno-rtti -fno-exceptions -fno-threadsafe-statics -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 2017-08-08

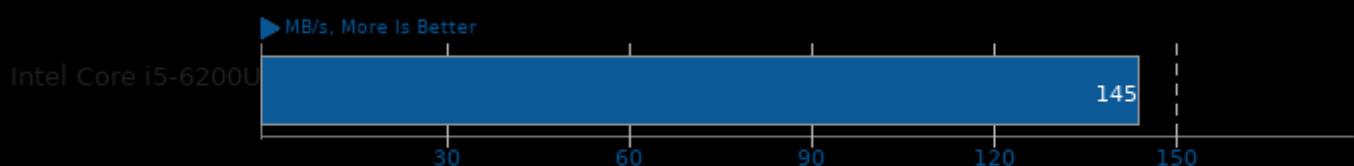
Test: Brotli 0 - Process: Decompression



1. (CXX) g++ options: -fno-rtti -fno-exceptions -fno-threadsafe-statics -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 2017-08-08

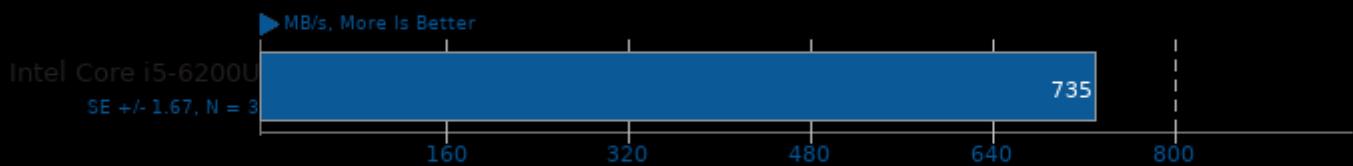
Test: Libdeflate 1 - Process: Compression



1. (CXX) g++ options: -fno-rtti -fno-exceptions -fno-threadsafe-statics -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 2017-08-08

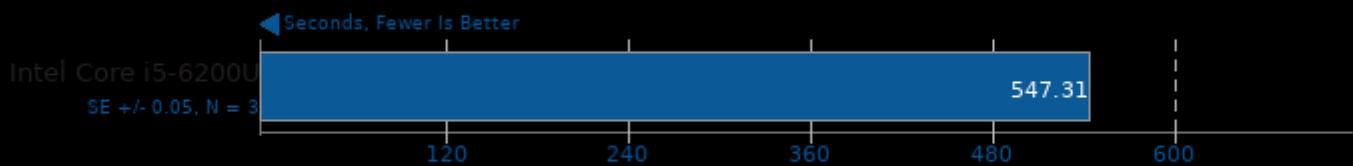
Test: Libdeflate 1 - Process: Decompression



1. (CXX) g++ options: -fno-rtti -fno-exceptions -fno-threadsafe-statics -fno-strict-aliasing -fno-fast-math -O3

m-queens 1.2

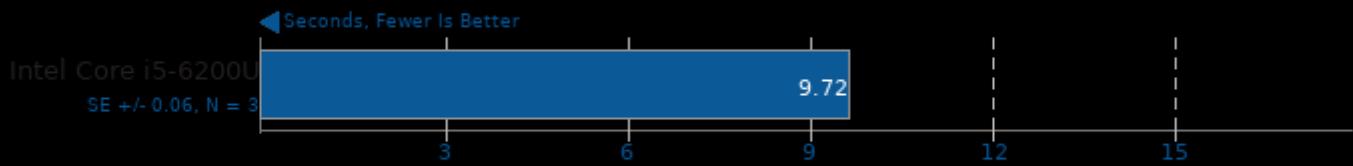
Time To Solve



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

Timed MAFFT Alignment 7.392

Multiple Sequence Alignment



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

MandelbulbGPU 1.0pts1

OpenCL Device: CPU



1. (CC) gcc options: -O3 -lm -fno-strict-aliasing -funroll-loops -fglut -lOpenCL -lGL

MandelbulbGPU 1.0pts1

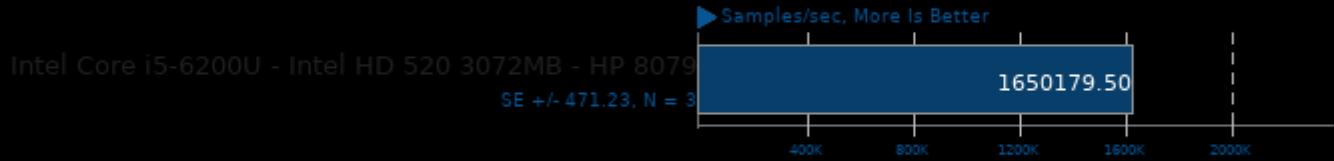
OpenCL Device: CPU+GPU



1. (CC) gcc options: -O3 -lm -fno-strict-aliasing -funroll-loops -fglut -lOpenCL -lGL

MandelGPU 1.3pts1

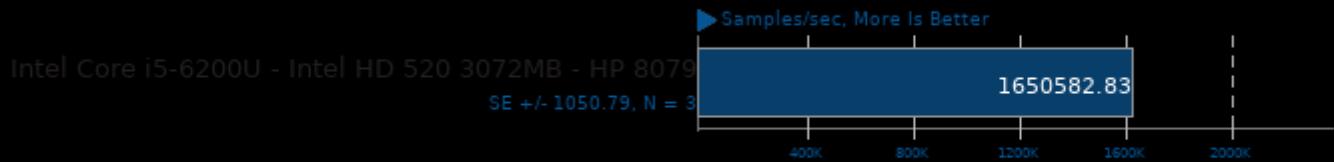
OpenCL Device: CPU



1. (CC) gcc options: -O3 -lm -fno-vec -funroll-loops -lglut -lOpenCL -lGL

MandelGPU 1.3pts1

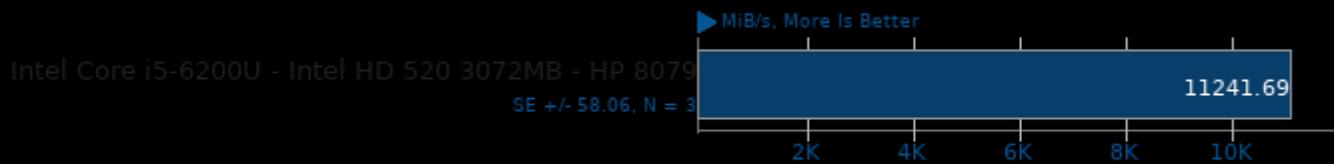
OpenCL Device: CPU+GPU



1. (CC) gcc options: -O3 -lm -fno-vec -funroll-loops -lglut -lOpenCL -lGL

MBW 2018-09-08

Test: Memory Copy - Array Size: 128 MiB



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

MBW 2018-09-08

Test: Memory Copy - Array Size: 512 MiB



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

MBW 2018-09-08

Test: Memory Copy - Array Size: 1024 MiB



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

MBW 2018-09-08

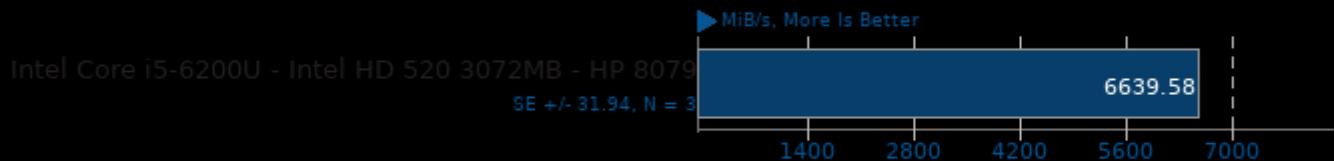
Test: Memory Copy - Array Size: 4096 MiB



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

MBW 2018-09-08

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



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

MBW 2018-09-08

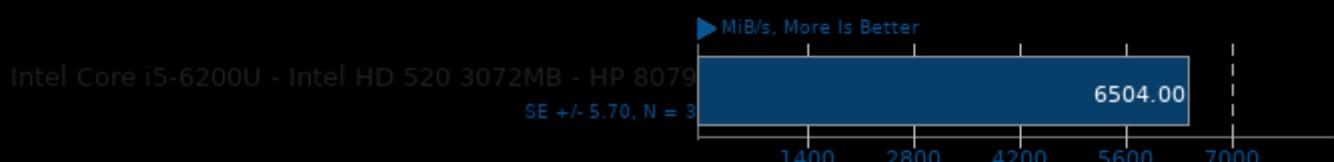
Test: Memory Copy, Fixed Block Size - Array Size: 512 MiB



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

MBW 2018-09-08

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



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

MBW 2018-09-08

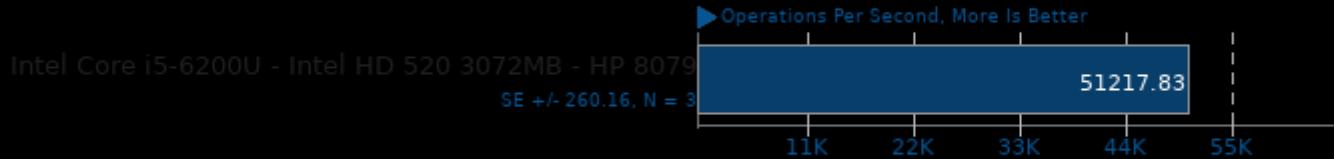
Test: Memory Copy, Fixed Block Size - Array Size: 4096 MiB



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

Memcached mcperf 1.5.10

Method: Add



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

Memcached mcperf 1.5.10

Method: Get



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

Memcached mcperf 1.5.10

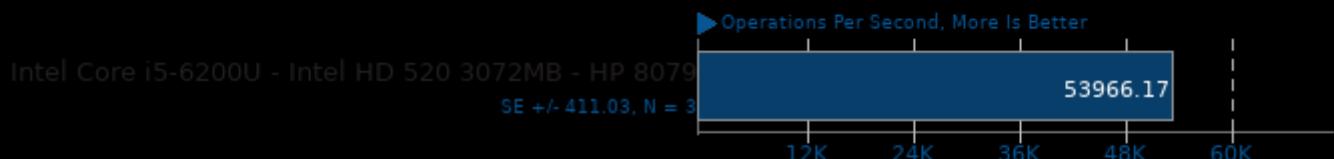
Method: Set



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

Memcached mcperf 1.5.10

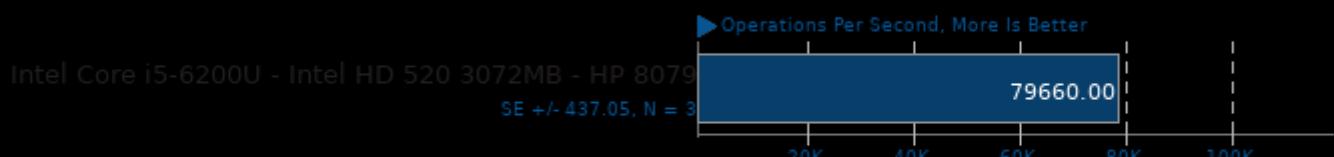
Method: Append



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

Memcached mcperf 1.5.10

Method: Delete



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

Memcached mcperf 1.5.10

Method: Prepend



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

Memcached mcperf 1.5.10

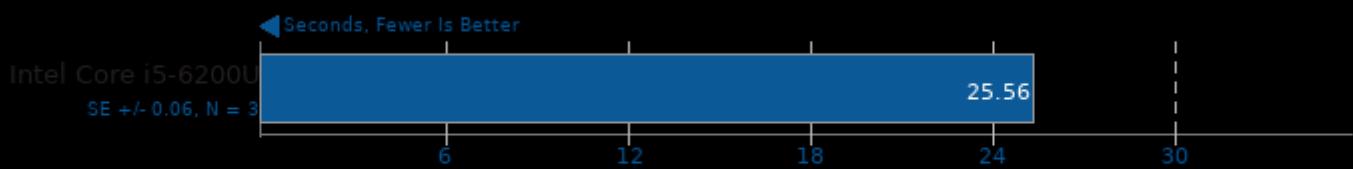
Method: Replace



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

Mencoder 1.3.0

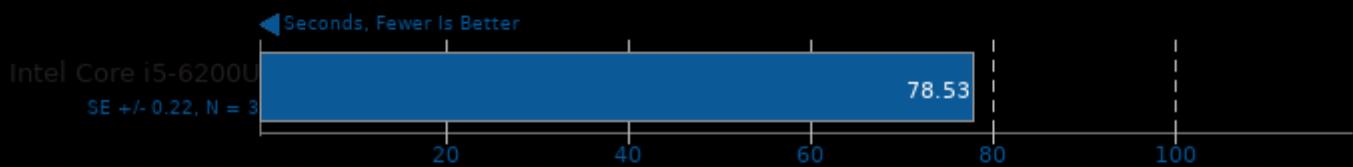
AVI To LAVC



1. (CC) gcc options: -ffast-math -fpie -pie -lrt -lpng -lz -jpeg -lasound -ldl -lpthread -lsndio -freetype -fontconfig -bz2 -lmad -lvorbisenc -lvorbis -logg -ltl

Minion 1.8

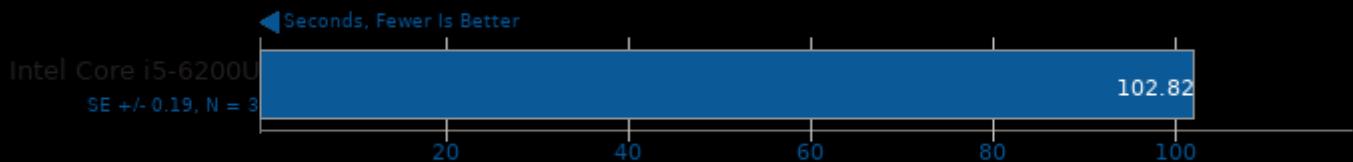
Benchmark: Graceful



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

Minion 1.8

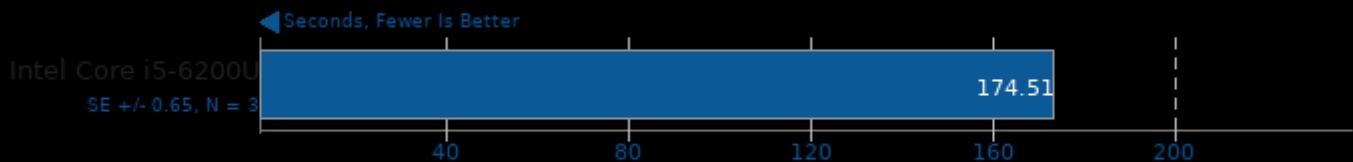
Benchmark: Solitaire



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

Minion 1.8

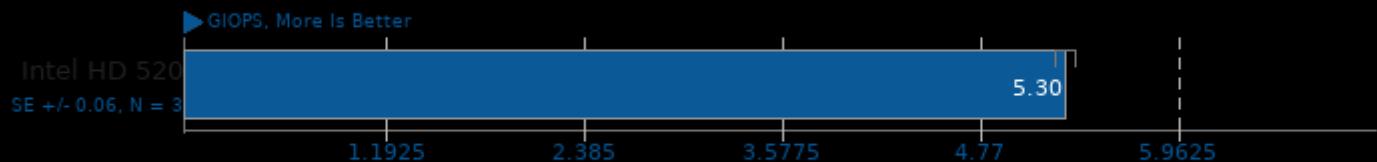
Benchmark: Quasigroup



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

Mixbench 2016-06-06

Benchmark: Integer



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

Mixbench 2016-06-06

Benchmark: Double Precision



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

Mixbench 2016-06-06

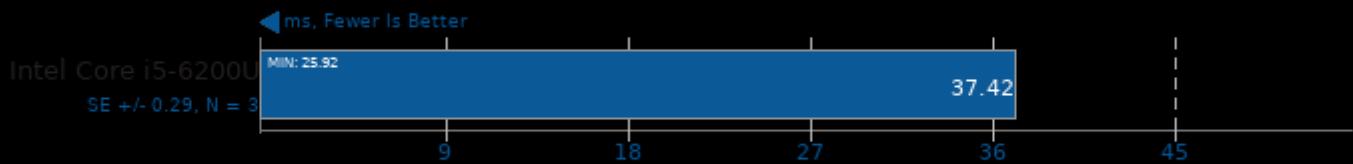
Benchmark: Single Precision



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

MKL-DNN 2019-04-16

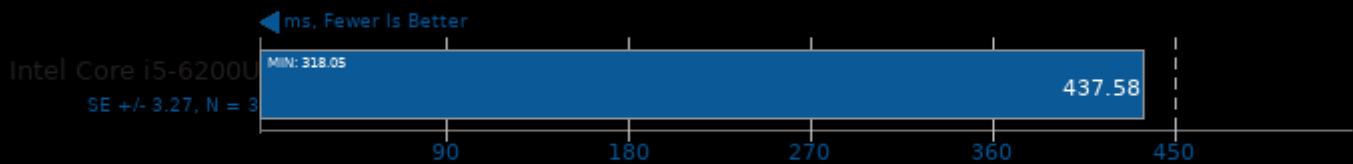
Harness: IP Batch 1D - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

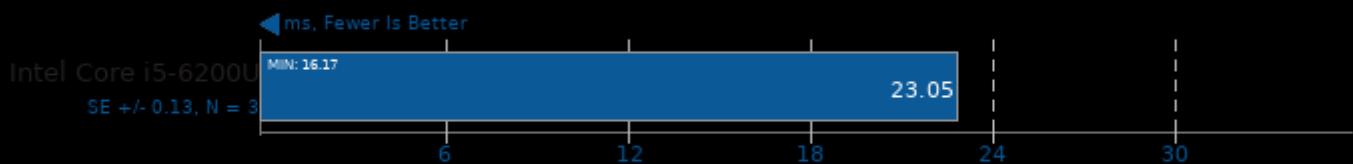
Harness: IP Batch All - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

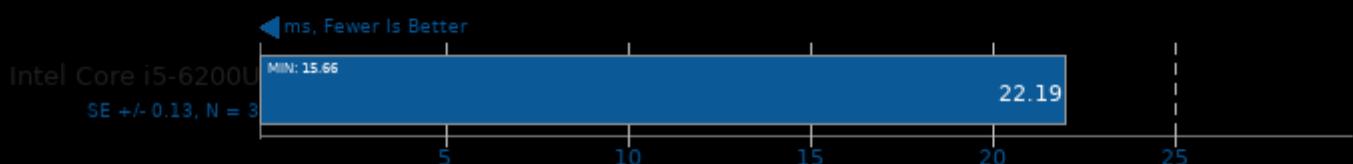
Harness: IP Batch 1D - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

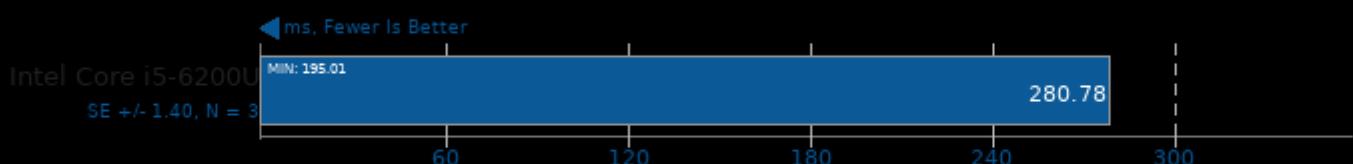
Harness: IP Batch 1D - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

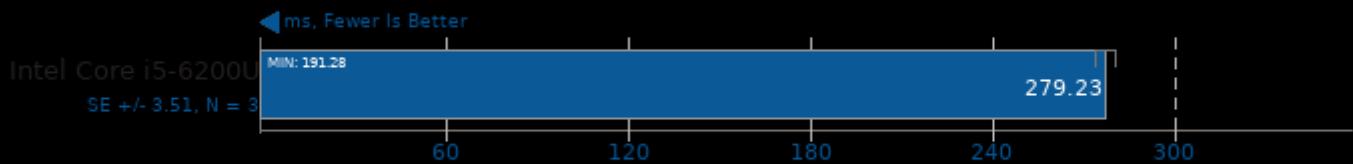
Harness: IP Batch All - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

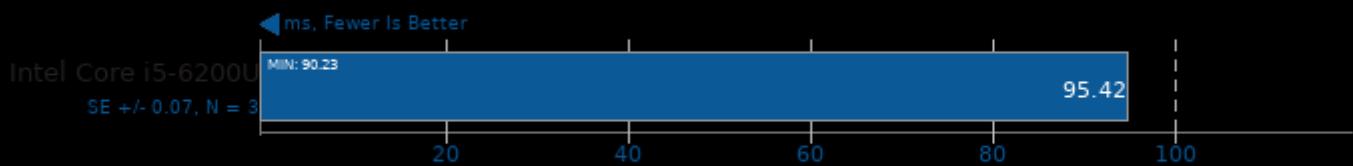
Harness: IP Batch All - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

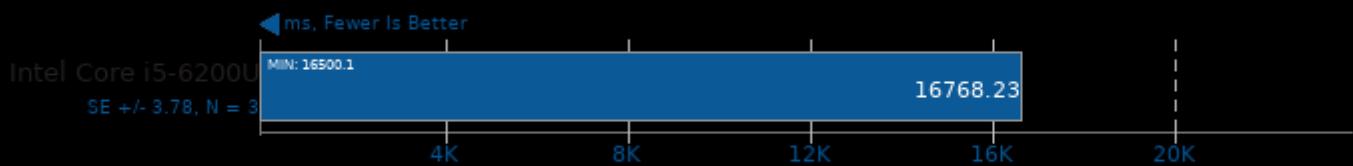
Harness: Convolution Batch conv_3d - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

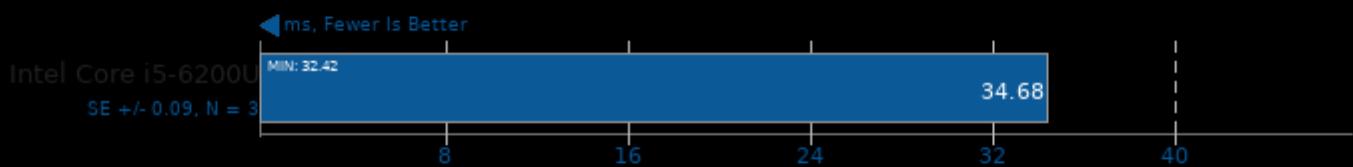
Harness: Convolution Batch conv_all - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

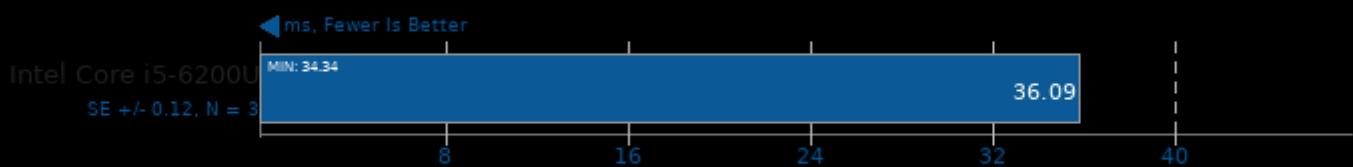
Harness: Deconvolution Batch deconv_1d - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

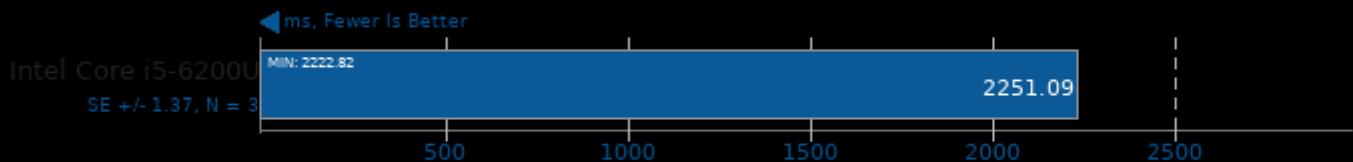
Harness: Deconvolution Batch deconv_3d - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

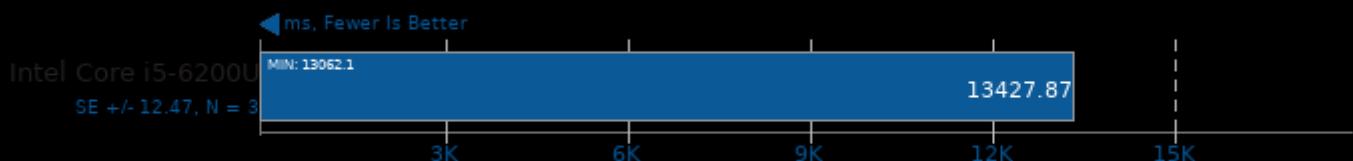
Harness: Convolution Batch conv_alexnet - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

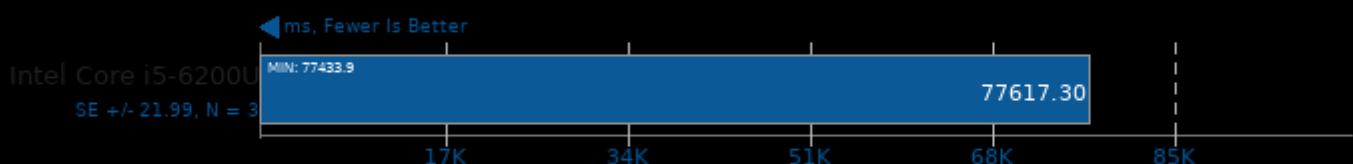
Harness: Deconvolution Batch deconv_all - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

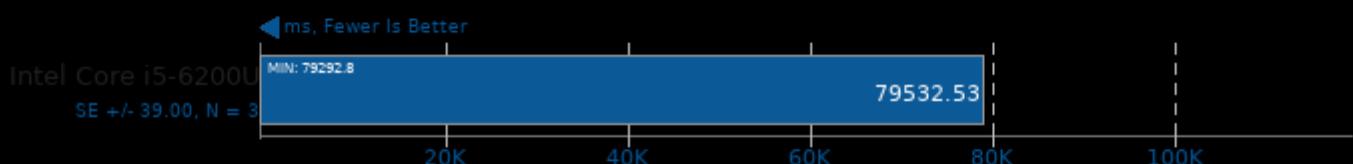
Harness: Convolution Batch conv_3d - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

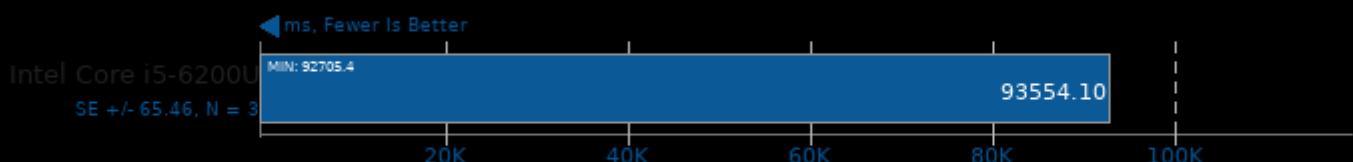
Harness: Convolution Batch conv_3d - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

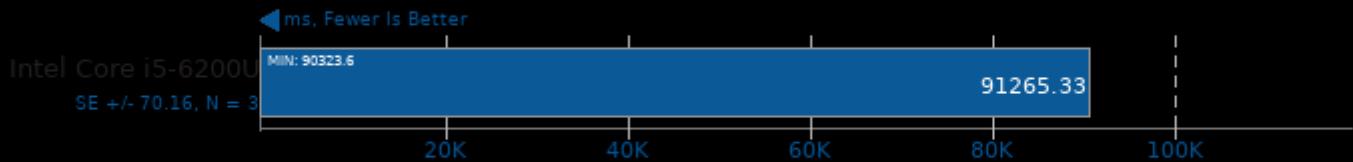
Harness: Convolution Batch conv_all - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

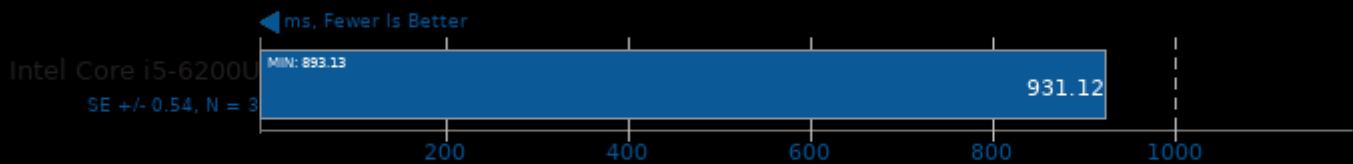
Harness: Convolution Batch conv_all - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

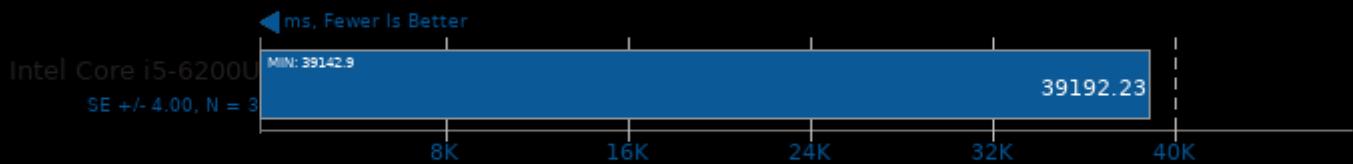
Harness: Convolution Batch conv_googlenet_v3 - Data Type: f32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

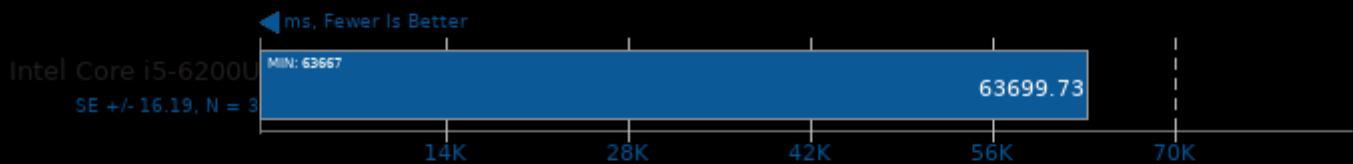
Harness: Deconvolution Batch deconv_1d - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

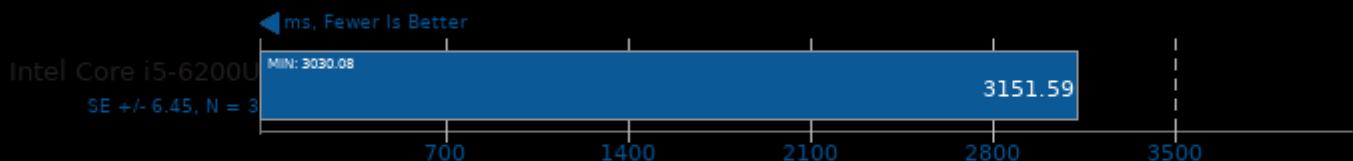
Harness: Deconvolution Batch deconv_3d - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

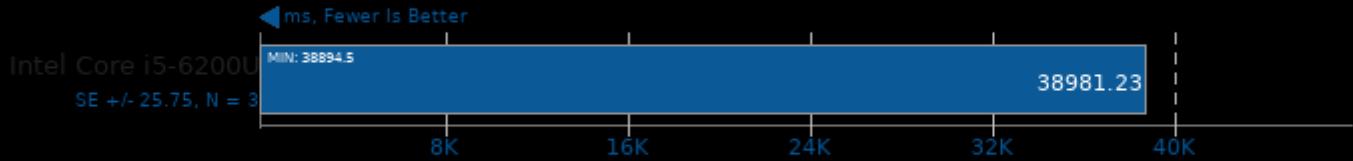
Harness: Convolution Batch conv_alexnet - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

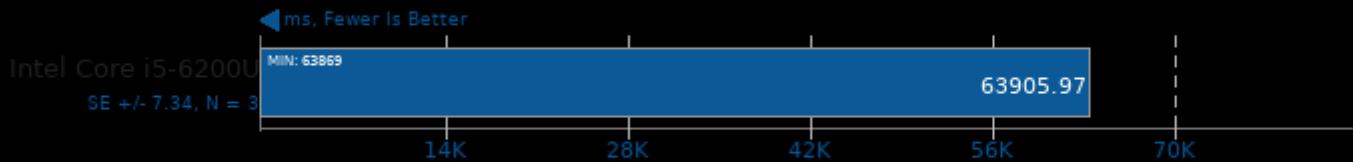
Harness: Deconvolution Batch deconv_1d - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

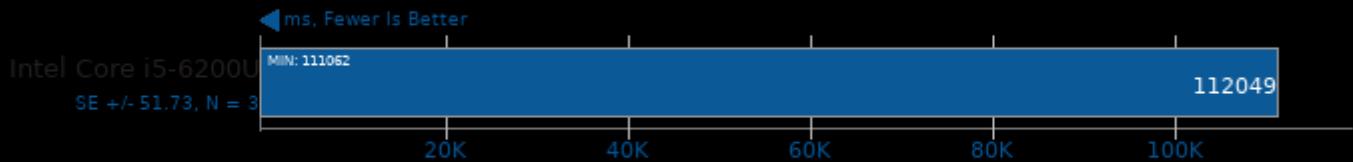
Harness: Deconvolution Batch deconv_3d - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

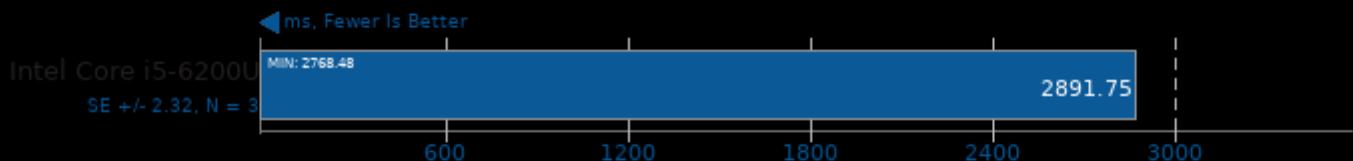
Harness: Deconvolution Batch deconv_all - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

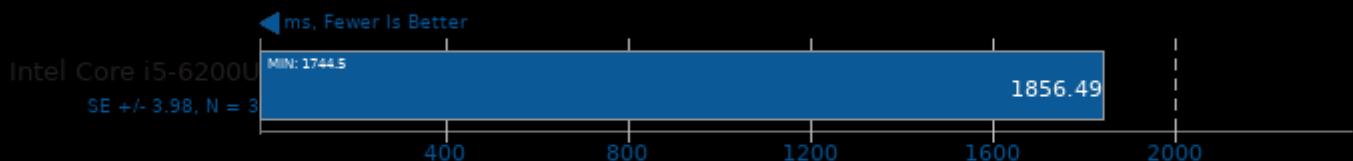
Harness: Convolution Batch conv_alexnet - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

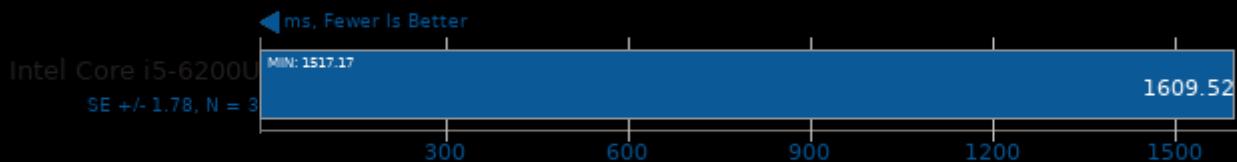
Harness: Convolution Batch conv_googlenet_v3 - Data Type: u8s8u8s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

MKL-DNN 2019-04-16

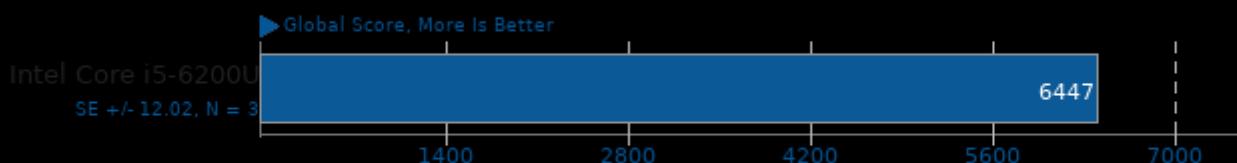
Harness: Convolution Batch conv_googlenet_v3 - Data Type: u8s8f32s32



1. (CXX) g++ options: -std=c++11 -march=native -mtune=native -fPIC -fopenmp -O3 -pie -lmklml_intel -ldl

GNU MPC 1.1.0

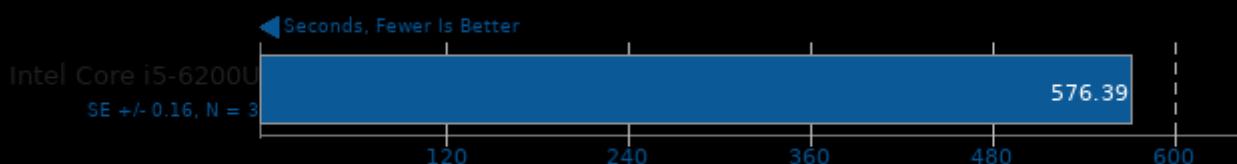
Multi-Precision Benchmark



1. (CC) gcc options: -lm -O2 -pedantic -fomit-frame-pointer -m64 -mtune=skylake -march=broadwell -MT -MD -MP -MF

Timed MrBayes Analysis 3.1.2

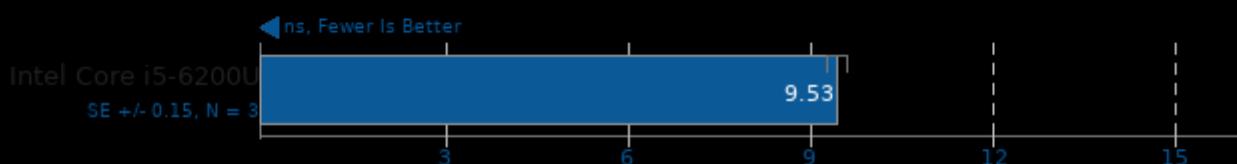
Primate Phylogeny Analysis



1. (CC) gcc options: -O3 -msse -mfpmath=sse -march=native -lm -pthread -lmpi

Multichase Pointer Chaser

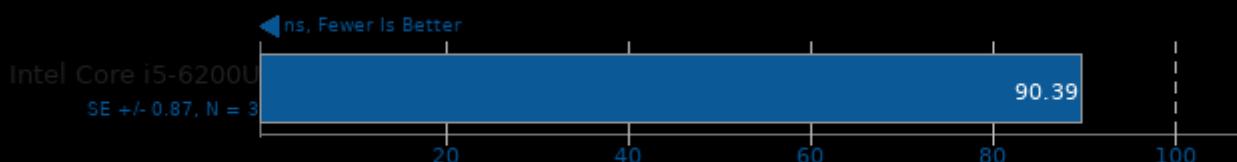
Test: 4MB Array, 64 Byte Stride



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

Multichase Pointer Chaser

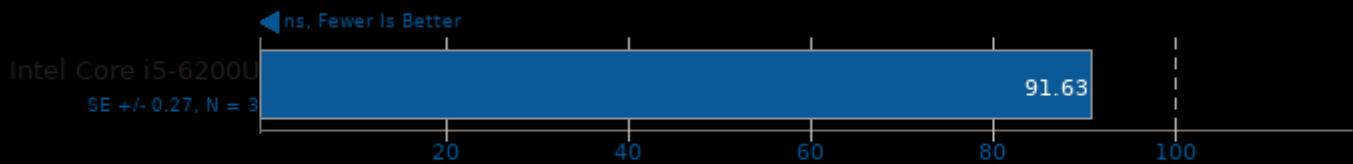
Test: 1GB Array, 256 Byte Stride



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

Multichase Pointer Chaser

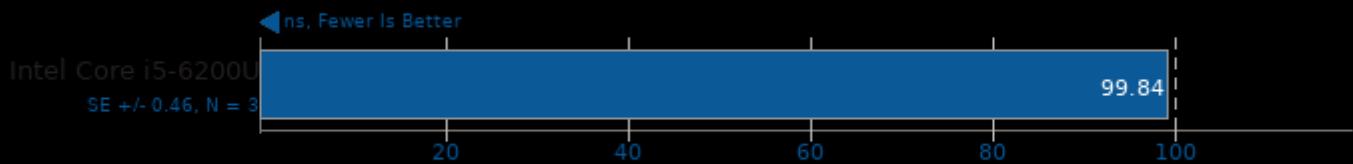
Test: 256MB Array, 256 Byte Stride



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

Multichase Pointer Chaser

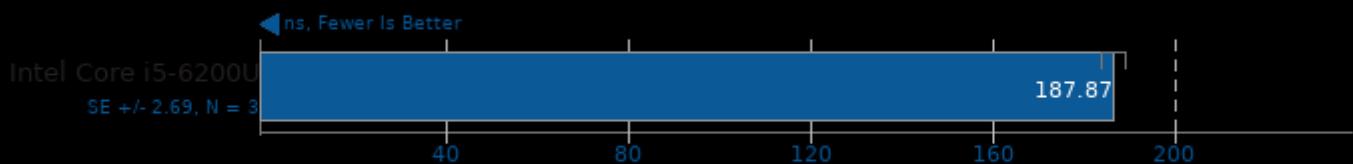
Test: 1GB Array, 256 Byte Stride, 2 Threads



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

Multichase Pointer Chaser

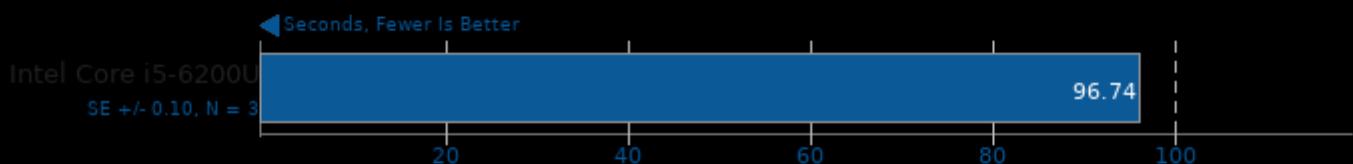
Test: 1GB Array, 256 Byte Stride, 4 Threads



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

N-Queens 1.0

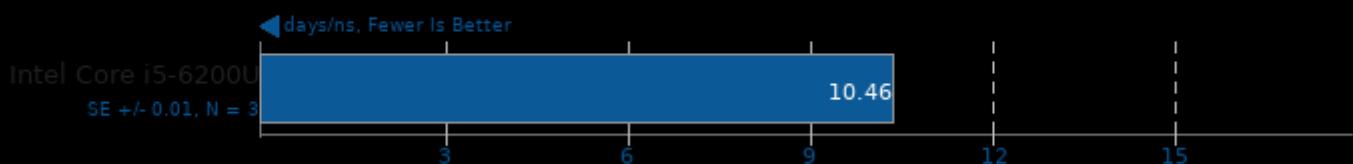
Elapsed Time



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

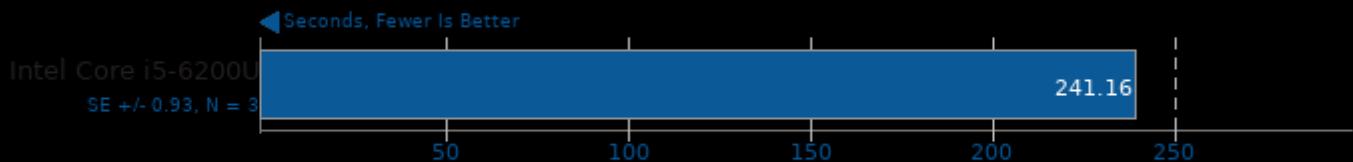
NAMD 2.13b1

ATPase Simulation - 327,506 Atoms



Open FMM Nero2D 2.0.2

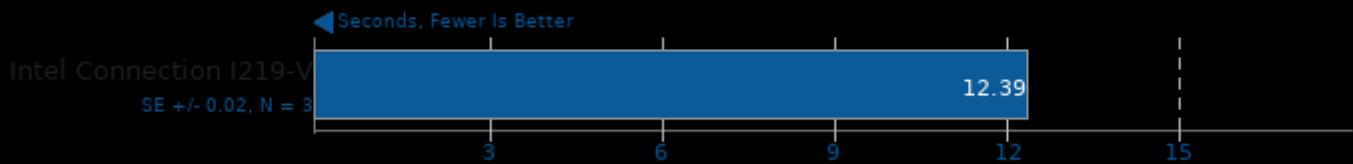
Total Time



1. (CXX) g++ options: -O2 -fftw3 -llapack -lf77blas -latlas -lgfortran -lquadmath -lm -pthread -lmpi_cxx -lmpi

Loopback TCP Network Performance

Time To Transfer 10GB Via Loopback



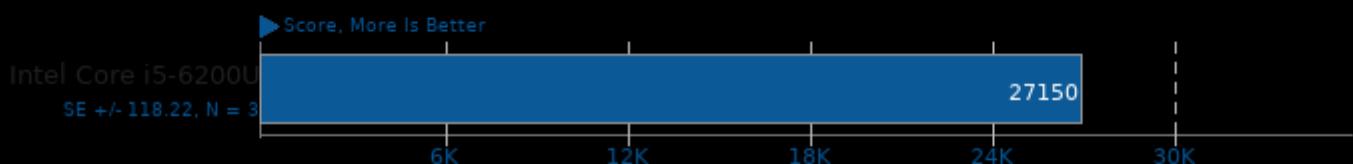
NGINX Benchmark 1.9.9

Static Web Page Serving



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

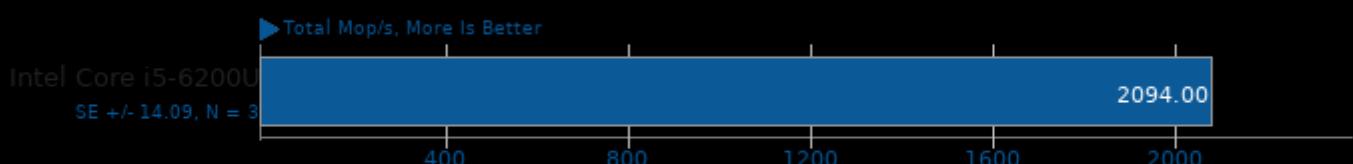
Node.js Octane Benchmark



1. Nodejs
v8.10.0

NAS Parallel Benchmarks 3.3.1

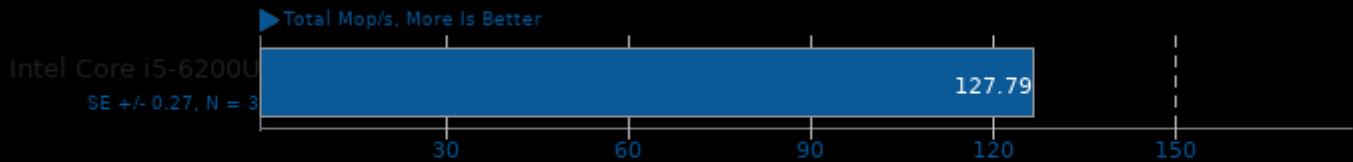
Test / Class: BT.A



1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi
2. Open MPI 2.1.1

NAS Parallel Benchmarks 3.3.1

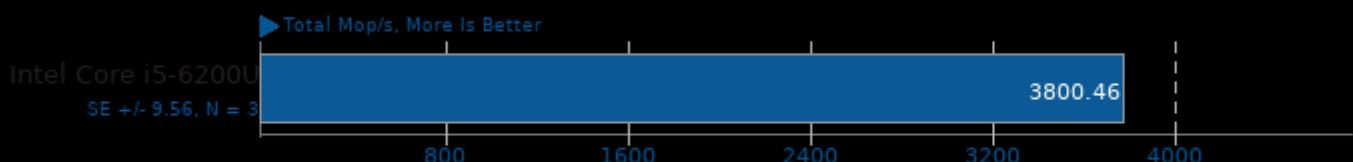
Test / Class: EP.C



1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi
2. Open MPI 2.1.1

NAS Parallel Benchmarks 3.3.1

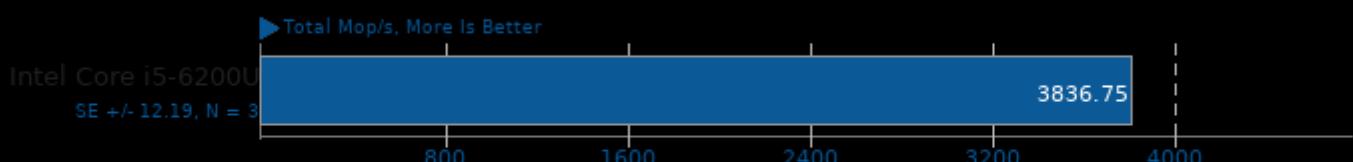
Test / Class: FT.A



1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi
2. Open MPI 2.1.1

NAS Parallel Benchmarks 3.3.1

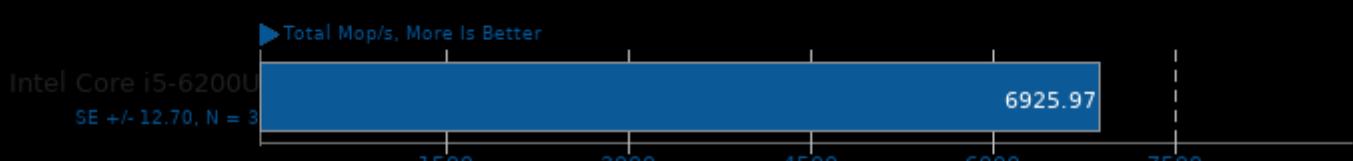
Test / Class: FT.B



1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi
2. Open MPI 2.1.1

NAS Parallel Benchmarks 3.3.1

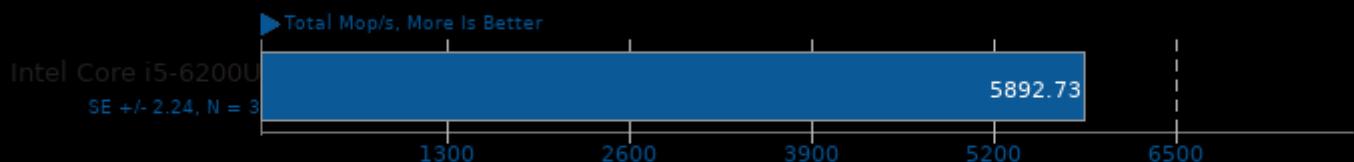
Test / Class: LU.A



1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi
2. Open MPI 2.1.1

NAS Parallel Benchmarks 3.3.1

Test / Class: LU.C

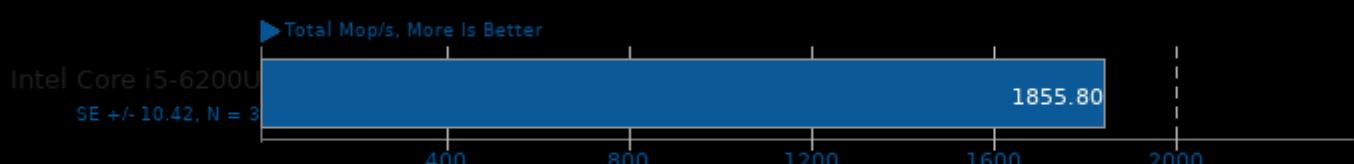


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

2. Open MPI 2.1.1

NAS Parallel Benchmarks 3.3.1

Test / Class: SP.A

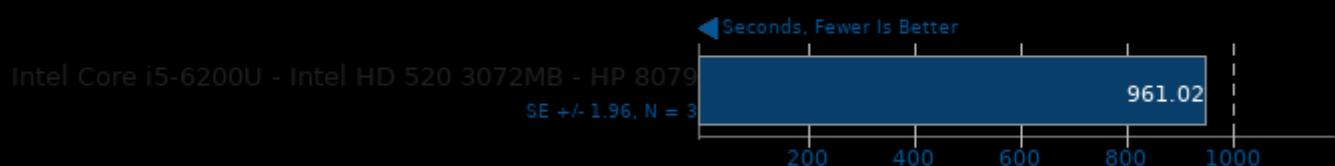


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

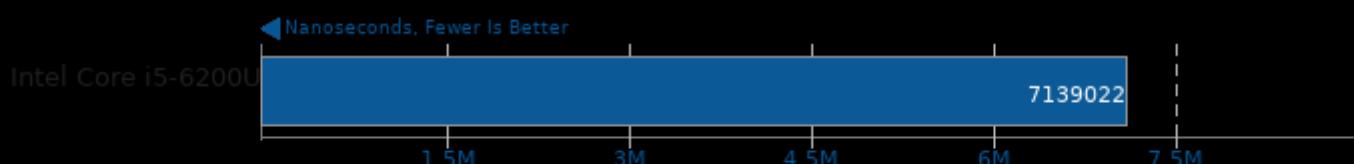
2. Open MPI 2.1.1

Numenta Anomaly Benchmark 2018-11-09

Time To Completion

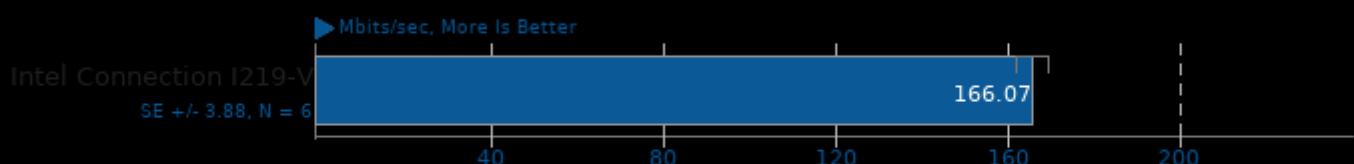


Numpy Benchmark



Nuttcp 8.1.4

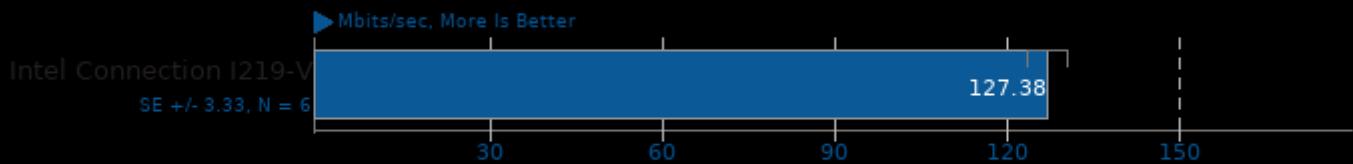
Test: 10G+ UDP - Server Address: 5.20.0.41



1. (CC) gcc options: -O3

Nuttcp 8.1.4

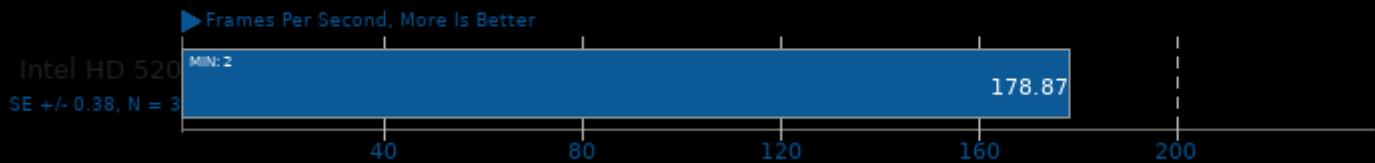
Test: TCP Transfer - Default - Server Address: 5.20.0.41



1. (CC) gcc options: -O3

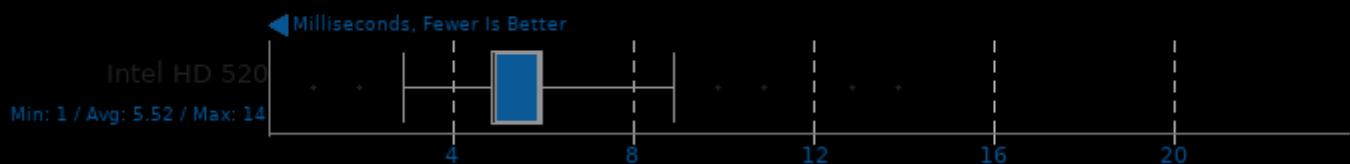
OpenArena 0.8.8

Resolution: 800 x 600



OpenArena 0.8.8

Resolution: 800 x 600 - Total Frame Time



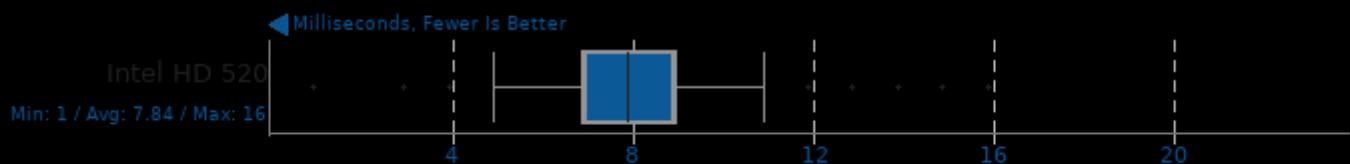
OpenArena 0.8.8

Resolution: 1024 x 768



OpenArena 0.8.8

Resolution: 1024 x 768 - Total Frame Time



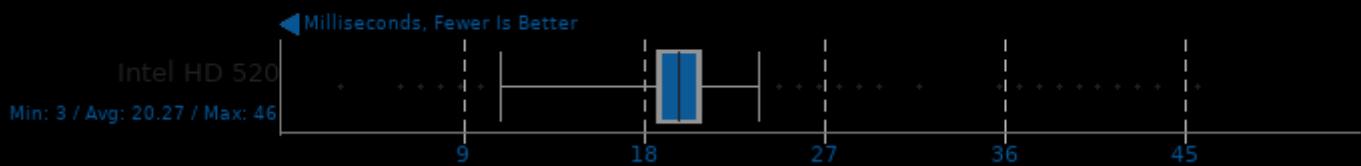
OpenArena 0.8.8

Resolution: 1920 x 1080



OpenArena 0.8.8

Resolution: 1920 x 1080 - Total Frame Time



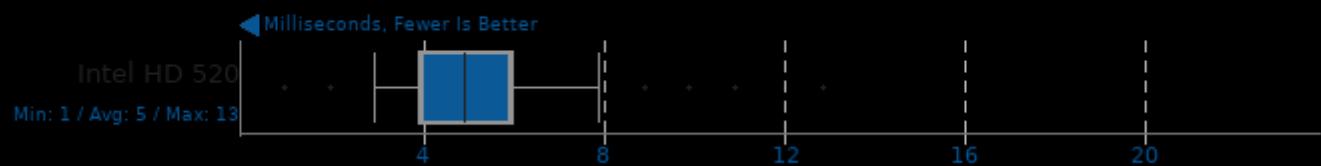
OpenArena 0.8.8

Resolution: 2560 x 1440



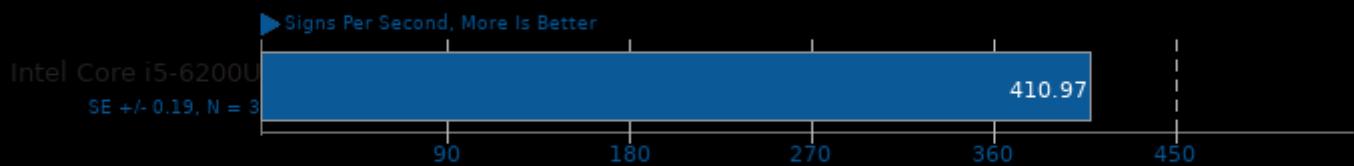
OpenArena 0.8.8

Resolution: 2560 x 1440 - Total Frame Time



OpenSSL 1.1.1

RSA 4096-bit Performance



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

Optcarrot

Optimized Benchmark



1. ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-linux-gnu]

OSBench

Test: Create Files



1. (CC) gcc options: -lm

OSBench

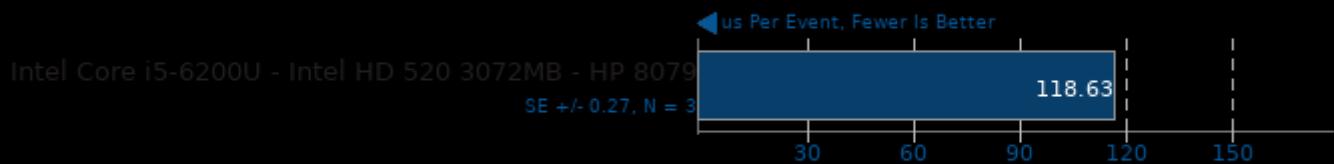
Test: Create Threads



1. (CC) gcc options: -lm

OSBench

Test: Launch Programs



1. (CC) gcc options: -lm

OSBench

Test: Create Processes



1. (CC) gcc options: -lm

OSBench

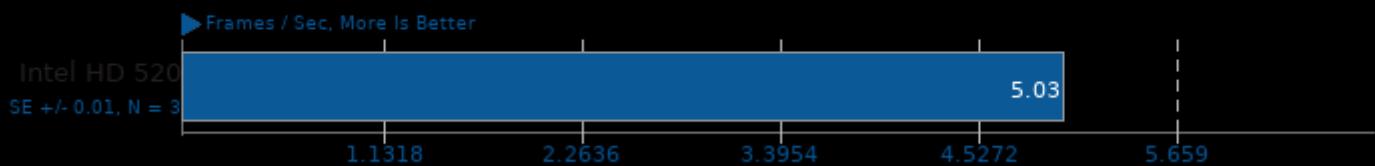
Test: Memory Allocations



1. (CC) gcc options: -lm

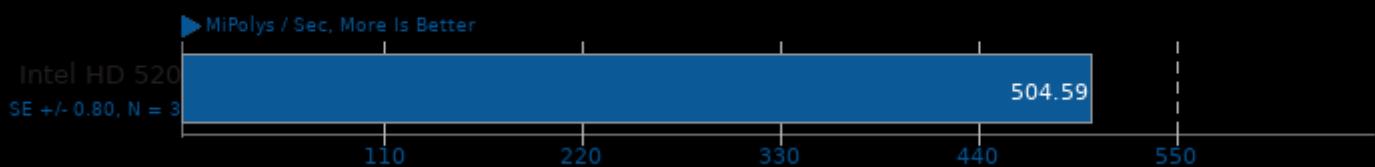
ParaView 5.4.1

Test: Many Spheres - Resolution: 800 x 600



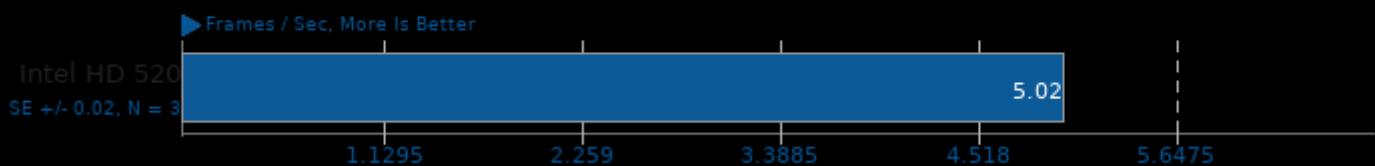
ParaView 5.4.1

Test: Many Spheres - Resolution: 800 x 600



ParaView 5.4.1

Test: Many Spheres - Resolution: 1024 x 576



ParaView 5.4.1

Test: Many Spheres - Resolution: 1024 x 576



ParaView 5.4.1

Test: Many Spheres - Resolution: 1024 x 768



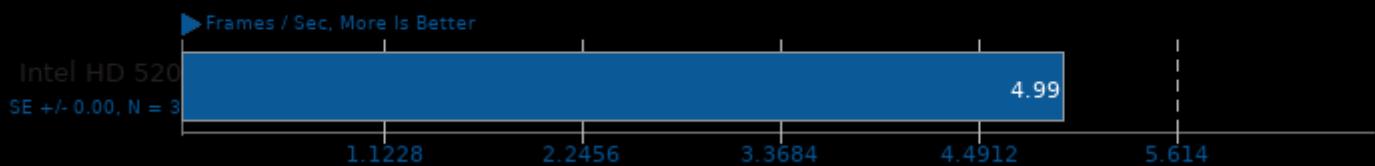
ParaView 5.4.1

Test: Many Spheres - Resolution: 1024 x 768



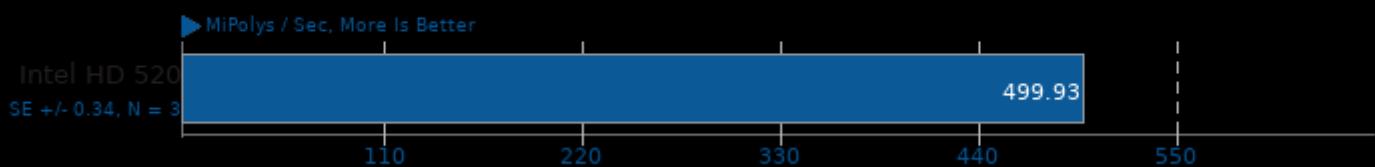
ParaView 5.4.1

Test: Many Spheres - Resolution: 1280 x 800



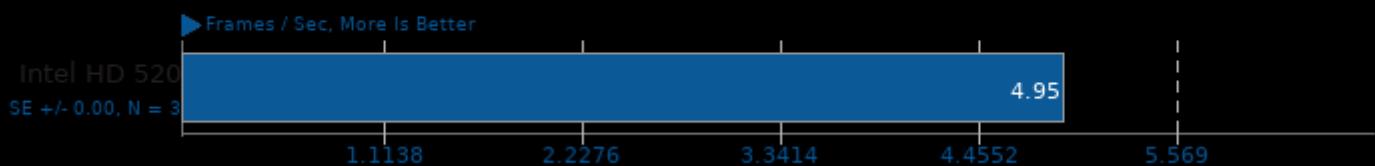
ParaView 5.4.1

Test: Many Spheres - Resolution: 1280 x 800



ParaView 5.4.1

Test: Many Spheres - Resolution: 1280 x 960



ParaView 5.4.1

Test: Many Spheres - Resolution: 1280 x 960



ParaView 5.4.1

Test: Many Spheres - Resolution: 1368 x 768



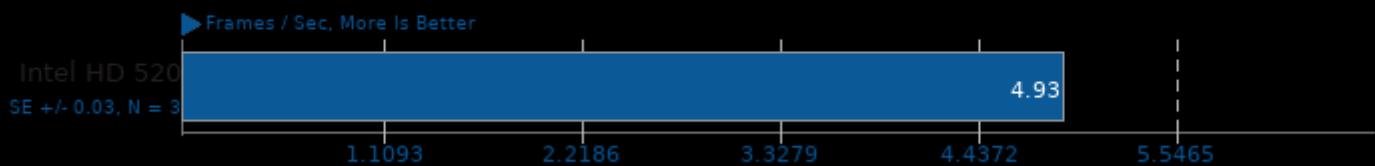
ParaView 5.4.1

Test: Many Spheres - Resolution: 1368 x 768



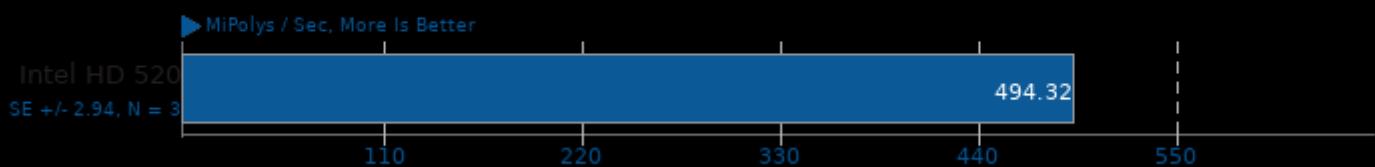
ParaView 5.4.1

Test: Many Spheres - Resolution: 1400 x 900



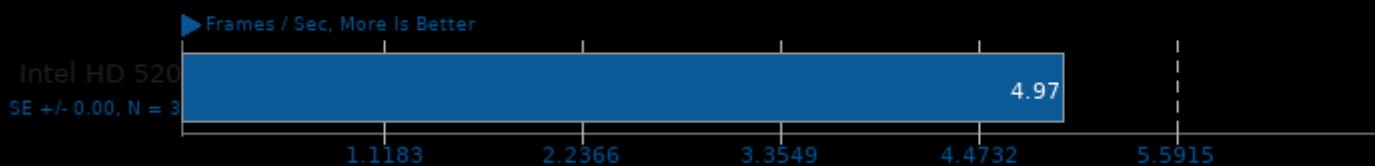
ParaView 5.4.1

Test: Many Spheres - Resolution: 1400 x 900



ParaView 5.4.1

Test: Many Spheres - Resolution: 1440 x 810



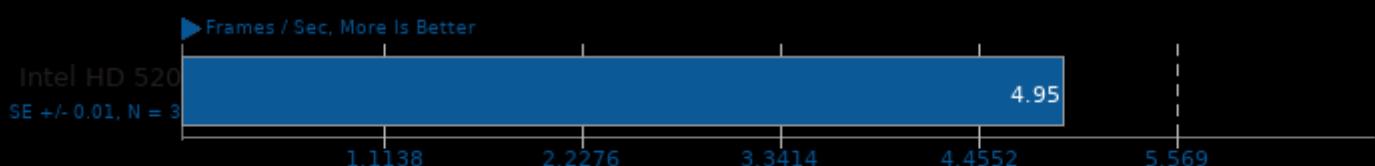
ParaView 5.4.1

Test: Many Spheres - Resolution: 1440 x 810



ParaView 5.4.1

Test: Many Spheres - Resolution: 1440 x 900



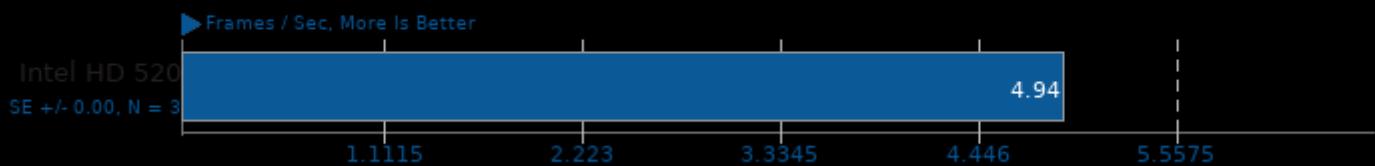
ParaView 5.4.1

Test: Many Spheres - Resolution: 1440 x 900



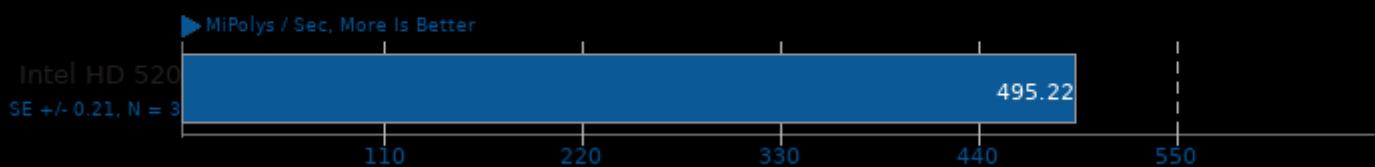
ParaView 5.4.1

Test: Many Spheres - Resolution: 1600 x 900



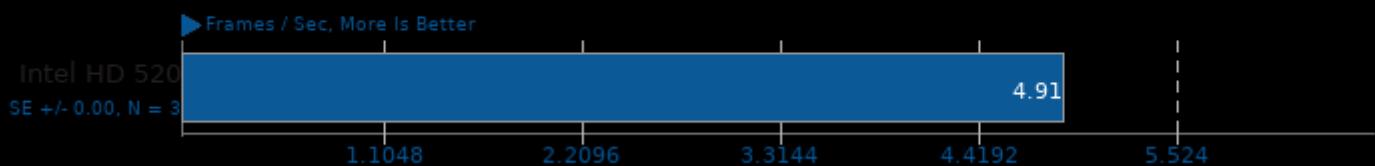
ParaView 5.4.1

Test: Many Spheres - Resolution: 1600 x 900



ParaView 5.4.1

Test: Many Spheres - Resolution: 1280 x 1024



ParaView 5.4.1

Test: Many Spheres - Resolution: 1280 x 1024



ParaView 5.4.1

Test: Many Spheres - Resolution: 1400 x 1050



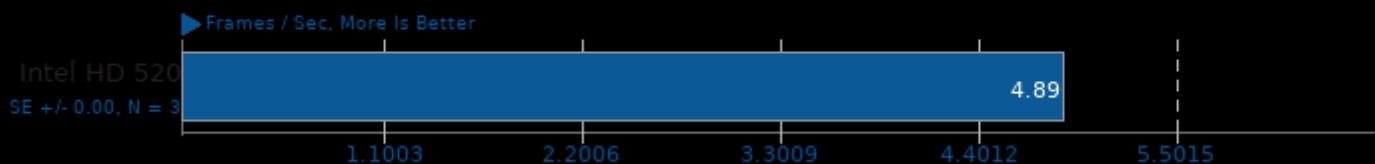
ParaView 5.4.1

Test: Many Spheres - Resolution: 1400 x 1050



ParaView 5.4.1

Test: Many Spheres - Resolution: 1600 x 1024



ParaView 5.4.1

Test: Many Spheres - Resolution: 1600 x 1024



ParaView 5.4.1

Test: Many Spheres - Resolution: 1680 x 1050



ParaView 5.4.1

Test: Many Spheres - Resolution: 1680 x 1050



ParaView 5.4.1

Test: Many Spheres - Resolution: 1920 x 1080



ParaView 5.4.1

Test: Many Spheres - Resolution: 1920 x 1080



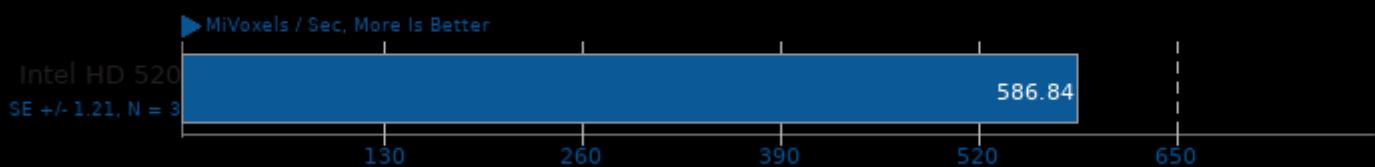
ParaView 5.4.1

Test: Wavelet Volume - Resolution: 800 x 600



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 800 x 600



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 800 x 600



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 800 x 600



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1024 x 576



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1024 x 576



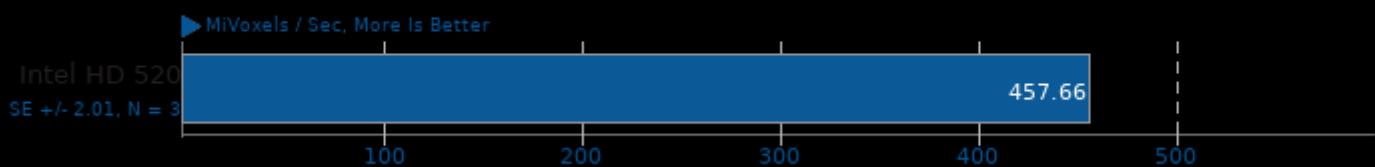
ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1024 x 768



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1024 x 768



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1280 x 800



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1280 x 800



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1280 x 960



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1280 x 960



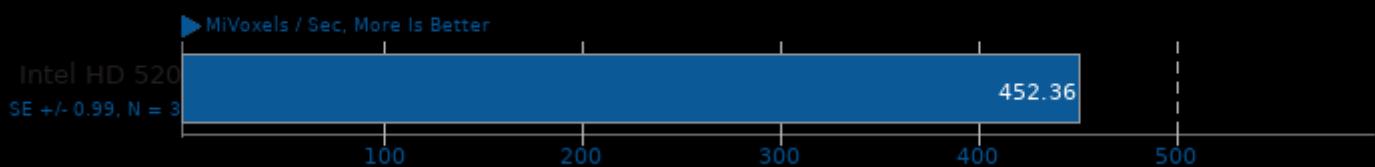
ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1368 x 768



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1368 x 768



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1400 x 900



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1400 x 900



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1440 x 810



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1440 x 810



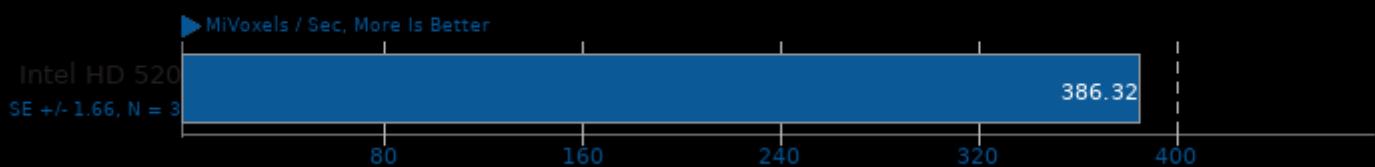
ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1440 x 900



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1440 x 900



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1600 x 900



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1600 x 900



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1024 x 576



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1024 x 576



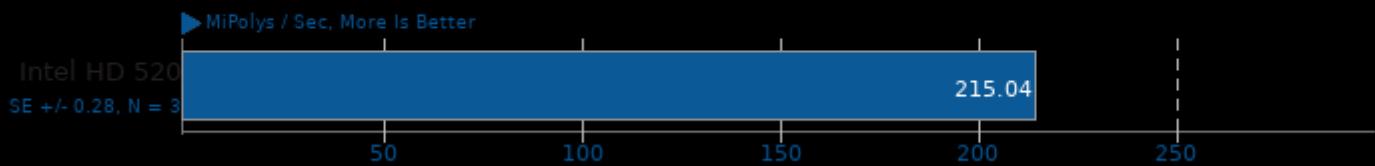
ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1024 x 768



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1024 x 768



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1280 x 800



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1280 x 800



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1280 x 960



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1280 x 960



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1368 x 768



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1368 x 768



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1400 x 900



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1400 x 900



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1440 x 810



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1440 x 810



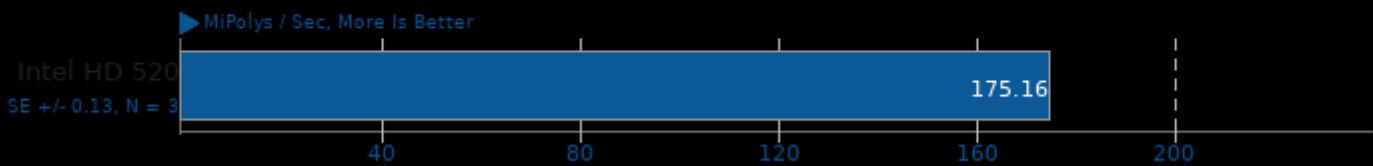
ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1440 x 900



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1440 x 900



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1600 x 900



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1600 x 900



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1280 x 1024



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1280 x 1024



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1400 x 1050



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1400 x 1050



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1600 x 1024



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1600 x 1024



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1680 x 1050



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1680 x 1050



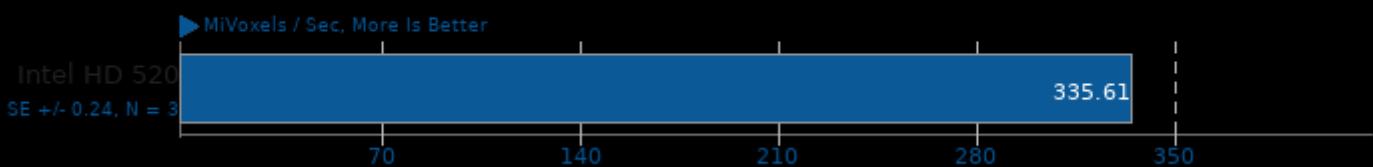
ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1920 x 1080



ParaView 5.4.1

Test: Wavelet Volume - Resolution: 1920 x 1080



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1280 x 1024



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1280 x 1024



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1400 x 1050



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1400 x 1050



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1600 x 1024



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1600 x 1024



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1680 x 1050



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1680 x 1050



ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1920 x 1080



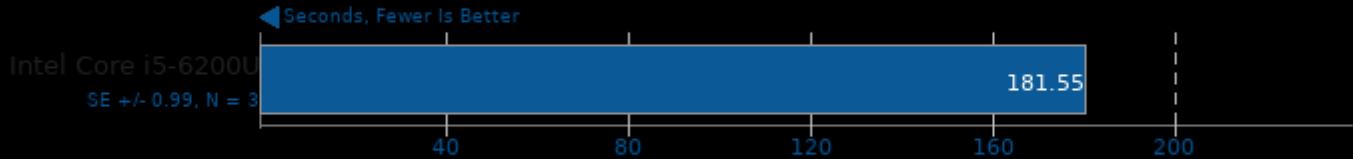
ParaView 5.4.1

Test: Wavelet Contour - Resolution: 1920 x 1080



Parboil 2.5

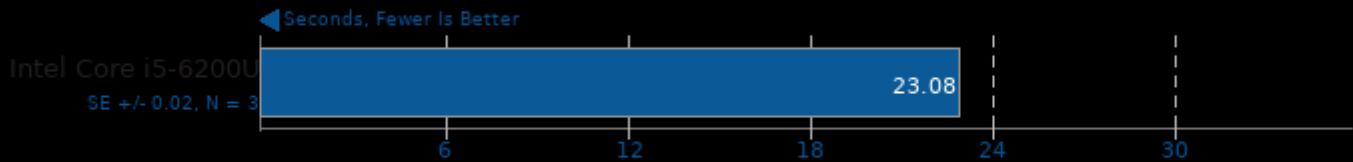
Test: OpenMP LBM



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

Parboil 2.5

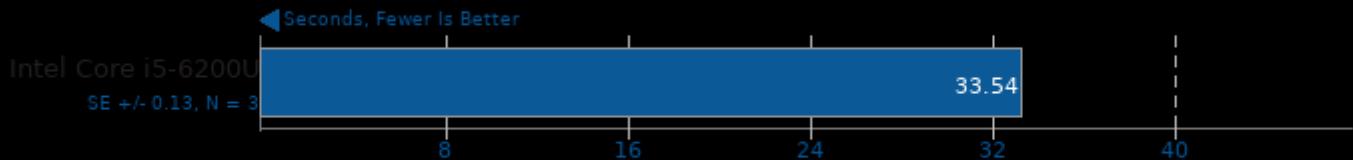
Test: OpenMP CUTCP



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

Parboil 2.5

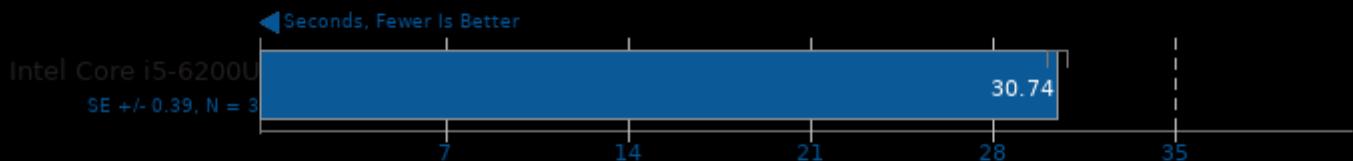
Test: OpenMP Stencil



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

Parboil 2.5

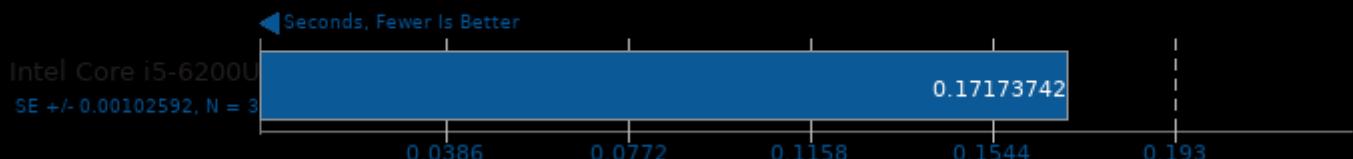
Test: OpenMP MRI Gridding



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

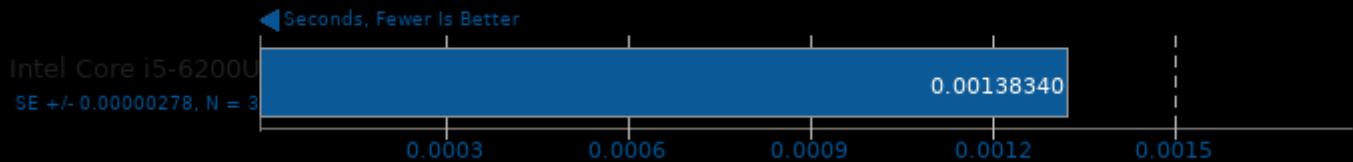
Perl Benchmarks

Test: Pod2html



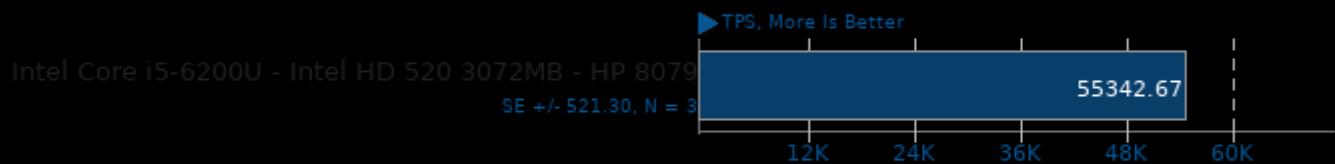
Perl Benchmarks

Test: Interpreter



PostgreSQL pgbench 10.3

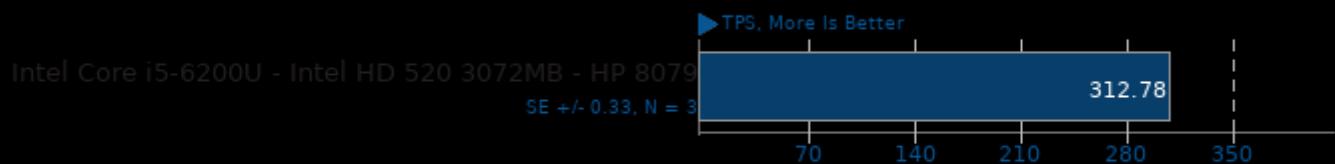
Scaling: On-Disk - Test: Normal Load - Mode: Read Only



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

PostgreSQL pgbench 10.3

Scaling: On-Disk - Test: Normal Load - Mode: Read Write



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

PostgreSQL pgbench 10.3

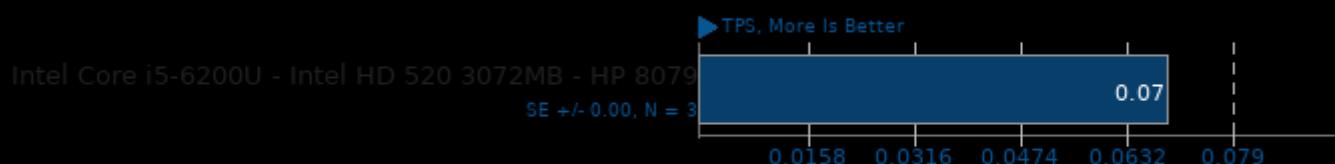
Scaling: On-Disk - Test: Single Thread - Mode: Read Only



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

PostgreSQL pgbench 10.3

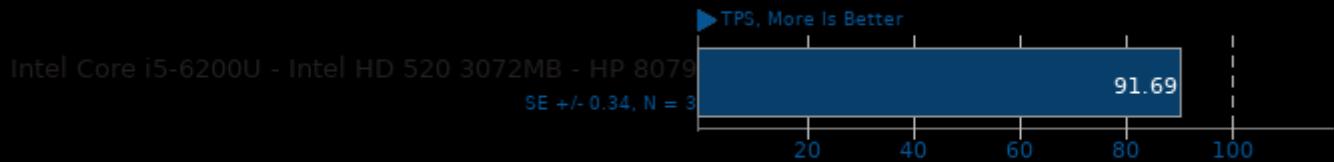
Scaling: Mostly RAM - Test: Normal Load - Mode: Read Only



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

PostgreSQL pgbench 10.3

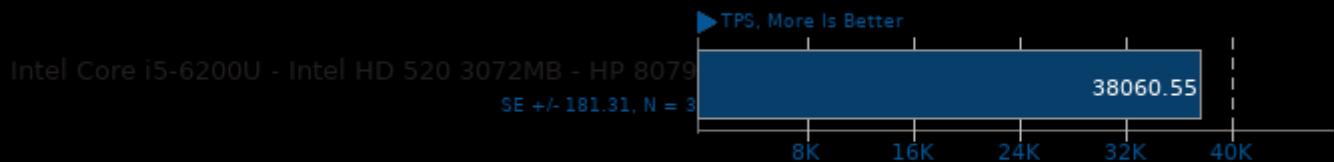
Scaling: On-Disk - Test: Single Thread - Mode: Read Write



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

PostgreSQL pgbench 10.3

Scaling: Buffer Test - Test: Normal Load - Mode: Read Only



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

PostgreSQL pgbench 10.3

Scaling: Mostly RAM - Test: Normal Load - Mode: Read Write



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

PostgreSQL pgbench 10.3

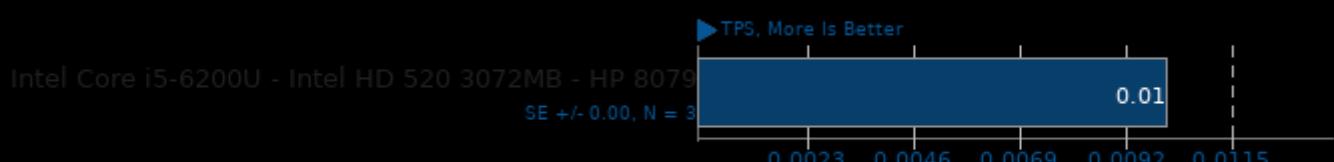
Scaling: Buffer Test - Test: Normal Load - Mode: Read Write



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

PostgreSQL pgbench 10.3

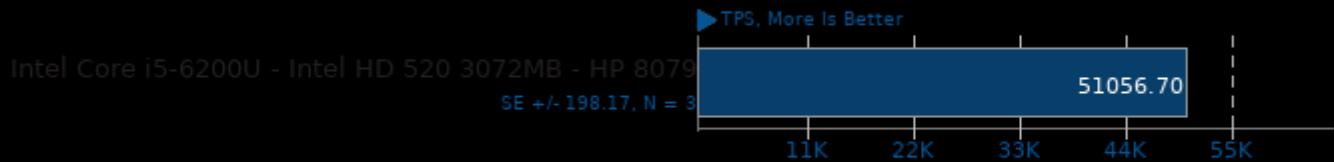
Scaling: Mostly RAM - Test: Single Thread - Mode: Read Only



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

PostgreSQL pgbench 10.3

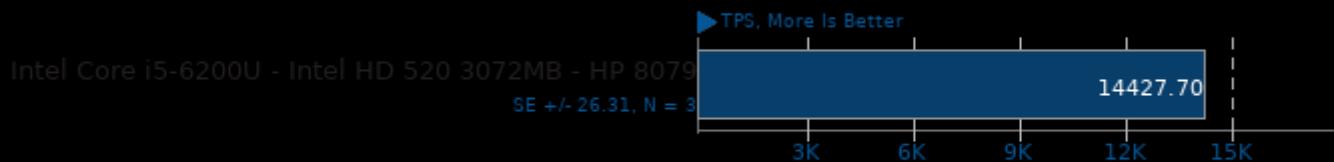
Scaling: On-Disk - Test: Heavy Contention - Mode: Read Only



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

PostgreSQL pgbench 10.3

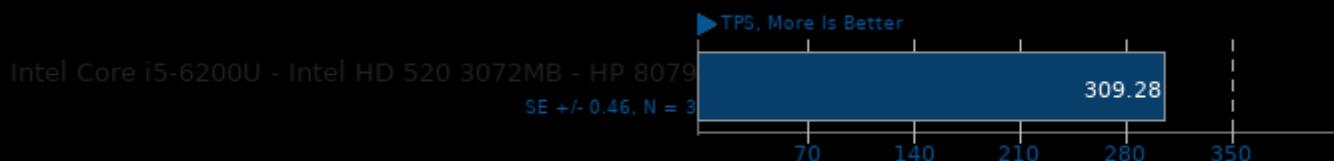
Scaling: Buffer Test - Test: Single Thread - Mode: Read Only



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

PostgreSQL pgbench 10.3

Scaling: On-Disk - Test: Heavy Contention - Mode: Read Write



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

PostgreSQL pgbench 10.3

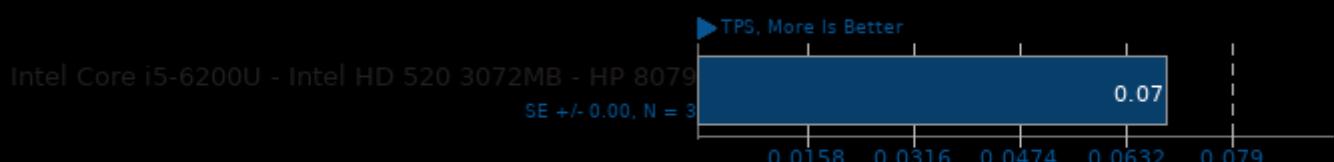
Scaling: Buffer Test - Test: Single Thread - Mode: Read Write



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

PostgreSQL pgbench 10.3

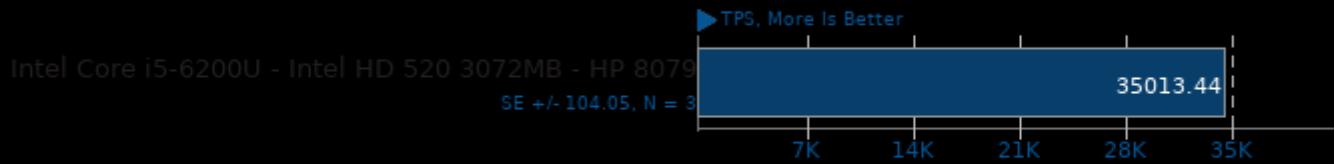
Scaling: Mostly RAM - Test: Heavy Contention - Mode: Read Only



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

PostgreSQL pgbench 10.3

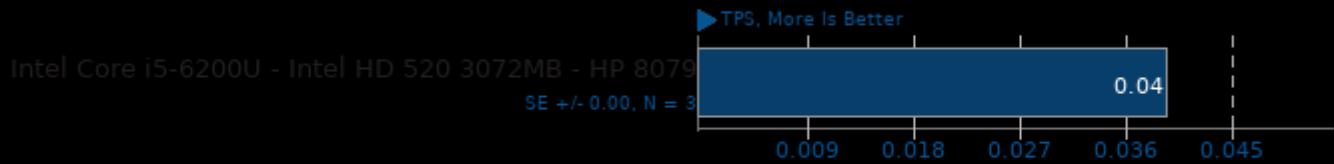
Scaling: Buffer Test - Test: Heavy Contention - Mode: Read Only



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

PostgreSQL pgbench 10.3

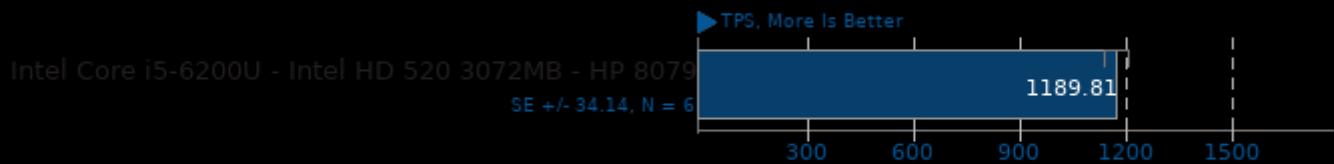
Scaling: Mostly RAM - Test: Heavy Contention - Mode: Read Write



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

PostgreSQL pgbench 10.3

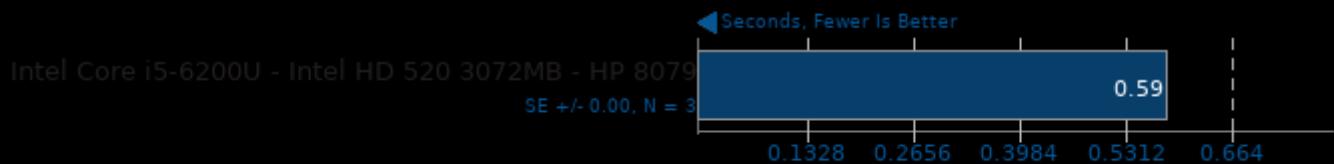
Scaling: Buffer Test - Test: Heavy Contention - Mode: Read Write



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

PHP Micro Benchmarks

Test: Zend bench



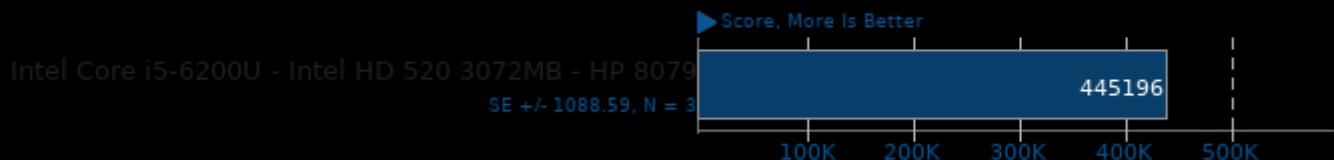
PHP Micro Benchmarks

Test: Zend micro_bench

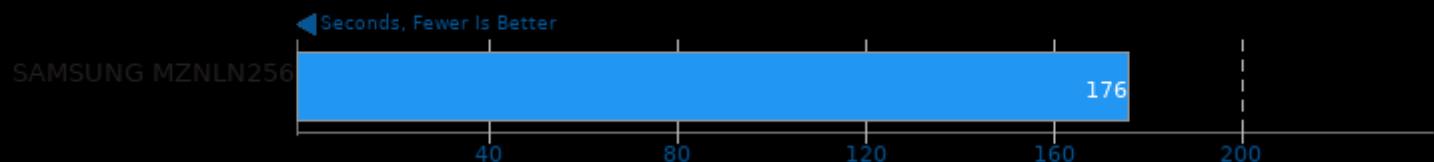


PHPBench 0.8.1

PHP Benchmark Suite

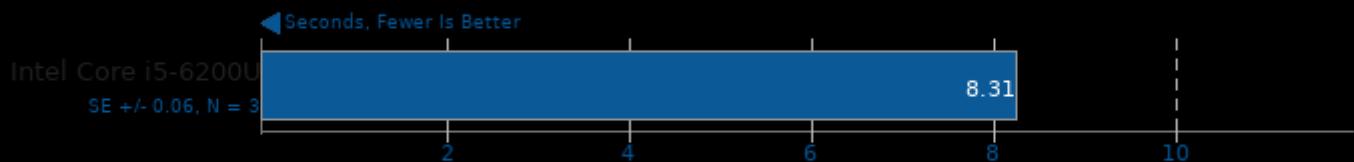


Pjdfstest



PolyBench-C 4.2

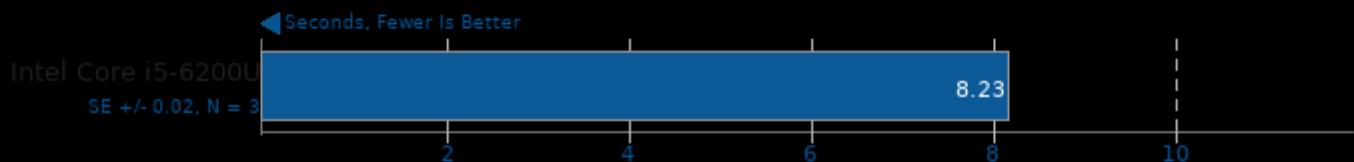
Test: Covariance Computation



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

PolyBench-C 4.2

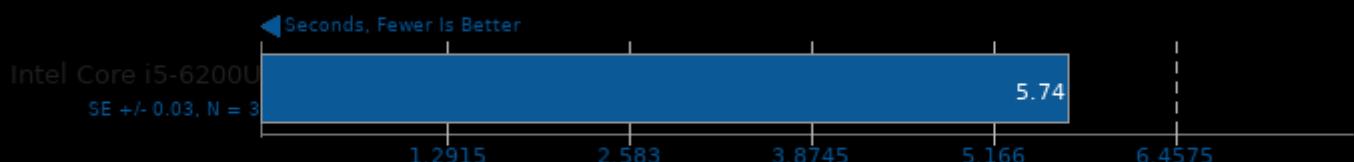
Test: Correlation Computation



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

PolyBench-C 4.2

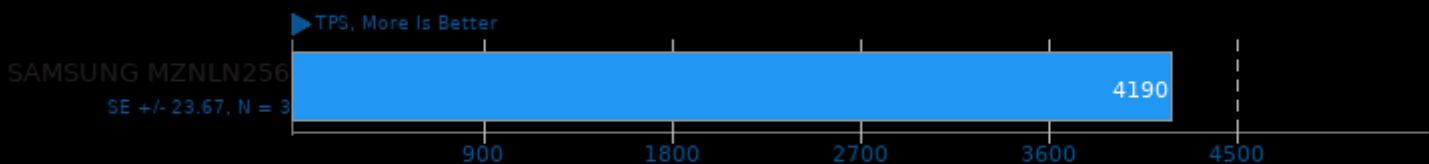
Test: 3 Matrix Multiplications



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

PostMark 1.51

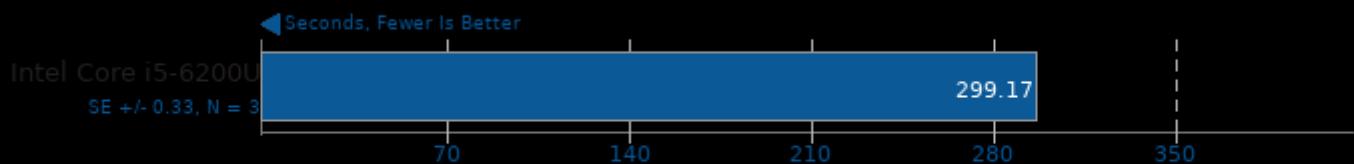
Disk Transaction Performance



1. (CC) gcc options: -O3

POV-Ray 3.7.0.7

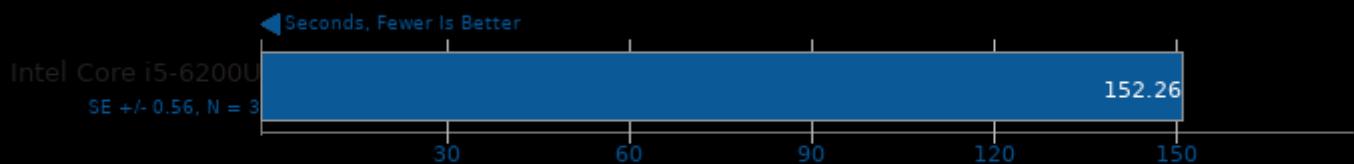
Trace Time



1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -fSDL -fSM -fICE -fX11 -fmmf -fmath -fHalf -fex -fexMath -fmmThread -fthread -fif

Primesieve 7.4

1e12 Prime Number Generation



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

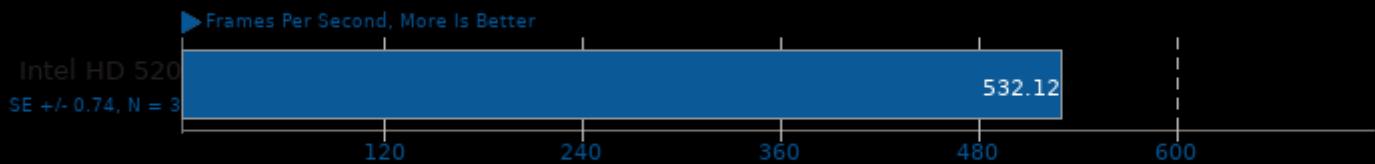
PyBench 2018-02-16

Total For Average Test Times



QGears2

Rendering: OpenGL - Test: Text



1. (CXX) g++ options: -fQt5OpenGL -fQt5Widgets -fQt5Gui -fQt5Core -fGL -fthread

QGears2

Rendering: OpenGL - Test: Gears



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

Rendering: OpenGL - Test: Image Scaling



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

Rendering: CPU-based Raster - Test: Text



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

Rendering: CPU-based Raster - Test: Gears



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

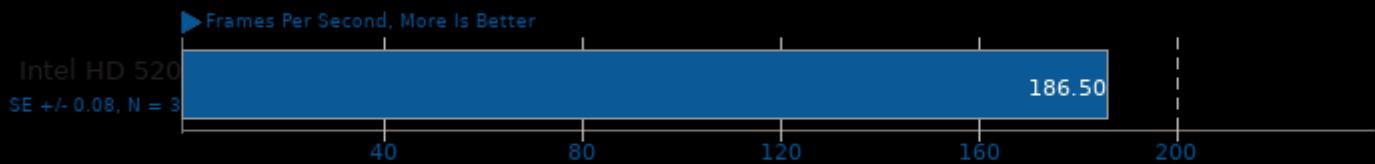
Rendering: XRender Extension - Test: Text



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

Rendering: XRender Extension - Test: Gears



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

Rendering: CPU-based Raster - Test: Image Scaling



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

QGears2

Rendering: XRender Extension - Test: Image Scaling



1. (CXX) g++ options: -IQt5OpenGL -IQt5Widgets -IQt5Gui -IQt5Core -IGL -lpthread

Qmlbench 2

Test: Fib10



1. (CXX) g++ options: -IQt5Gui -IQt5Core -IGL -lpthread

Qmlbench 2

Test: Canvas Text Simple



1. (CXX) g++ options: -IQt5Gui -IQt5Core -IGL -lpthread

Qmlbench 2

Test: Creation Delegates Flow



1. (CXX) g++ options: -IQt5Gui -IQt5Core -IGL -lpthread

Qmlbench 2

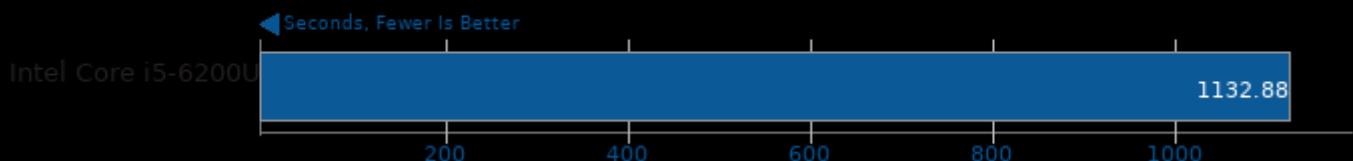
Test: Moving Images Animations



1. (CXX) g++ options: -IQt5Gui -IQt5Core -IGL -lpthread

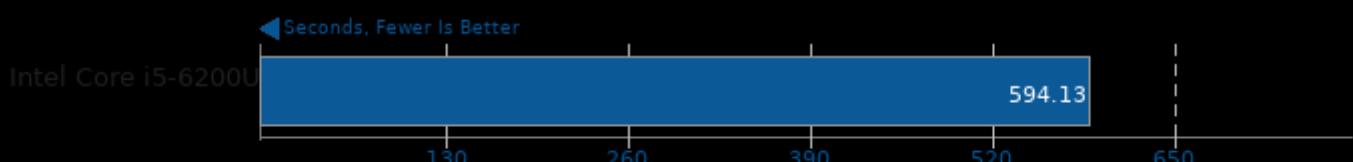
Radiance Benchmark 5.0

Test: Serial



Radiance Benchmark 5.0

Test: SMP Parallel



RAMspeed SMP 3.5.0

Type: Add - Benchmark: Integer

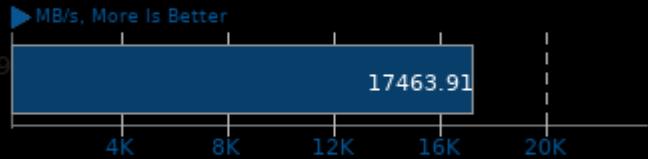


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

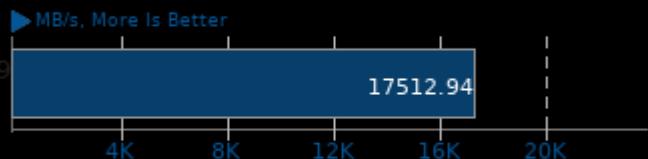


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Scale - Benchmark: Integer

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

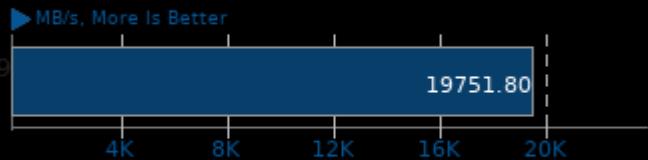


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Triad - Benchmark: Integer

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

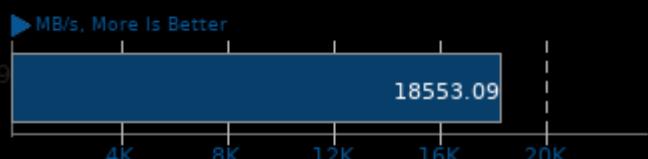


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Integer

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

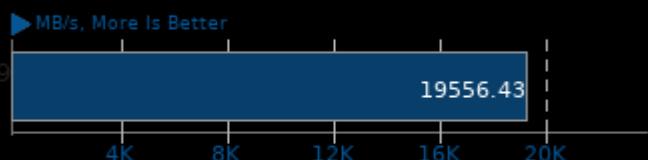


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Add - Benchmark: Floating Point

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

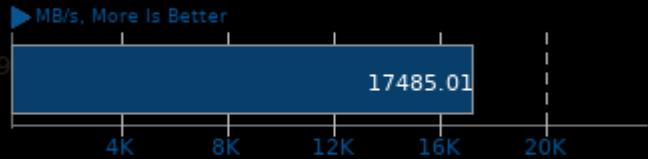


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Floating Point

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

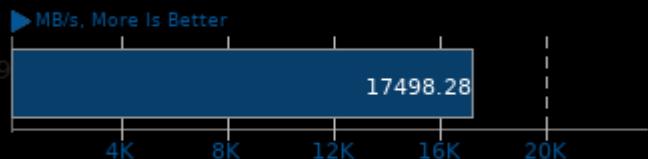


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Scale - Benchmark: Floating Point

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

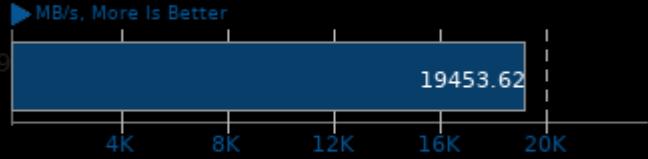


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Triad - Benchmark: Floating Point

Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079

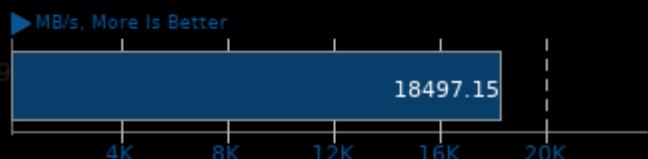


1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Average - Benchmark: Floating Point

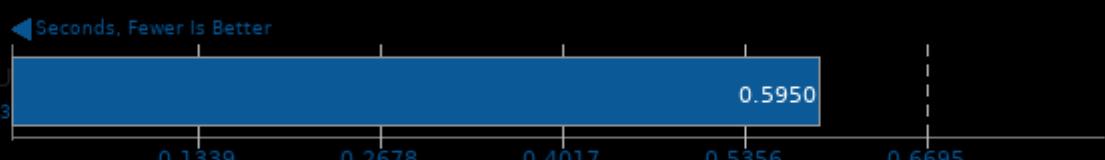
Intel Core i5-6200U - Intel HD 520 3072MB - HP 8079



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

R Benchmark

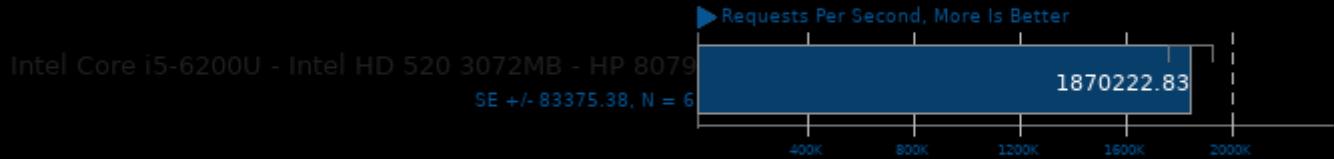
Intel Core i5-6200U
SE +/- 0.0025, N = 3



1. R scripting front-end version 3.4.4 (2018-03-15)

Redis 4.0.8

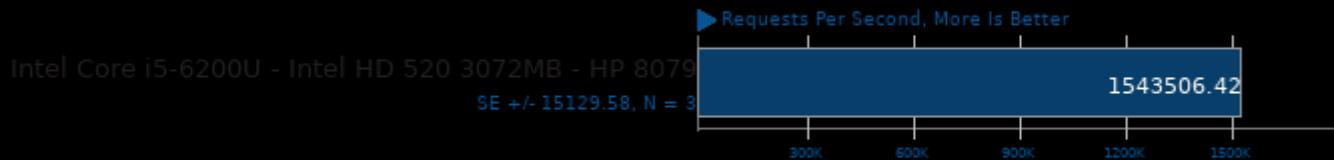
Test: LPOP



1. (CC) gcc options: -ggdb -rdynamic -lm -ldl -pthread

Redis 4.0.8

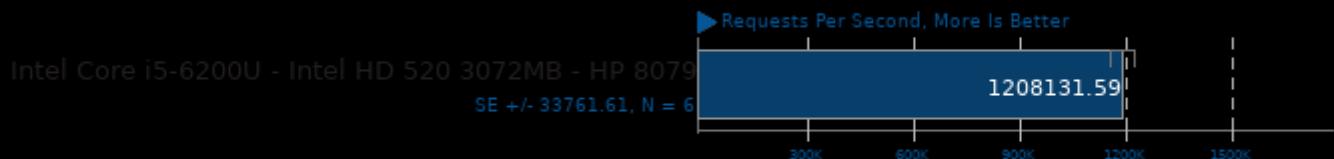
Test: SADD



1. (CC) gcc options: -ggdb -rdynamic -lm -ldl -pthread

Redis 4.0.8

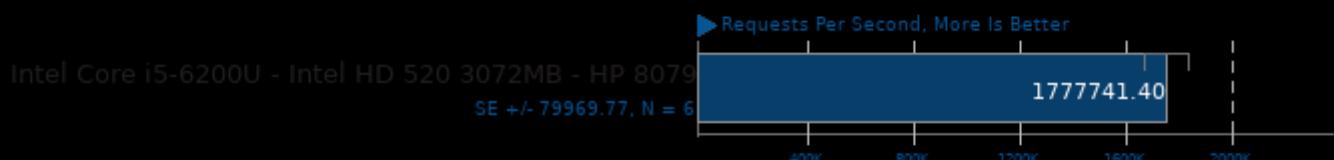
Test: LPUSH



1. (CC) gcc options: -ggdb -rdynamic -lm -ldl -pthread

Redis 4.0.8

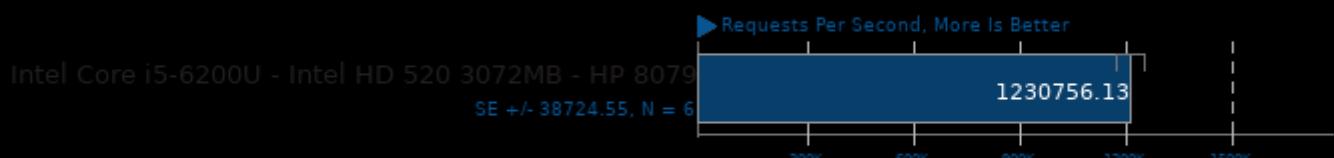
Test: GET



1. (CC) gcc options: -ggdb -rdynamic -lm -ldl -pthread

Redis 4.0.8

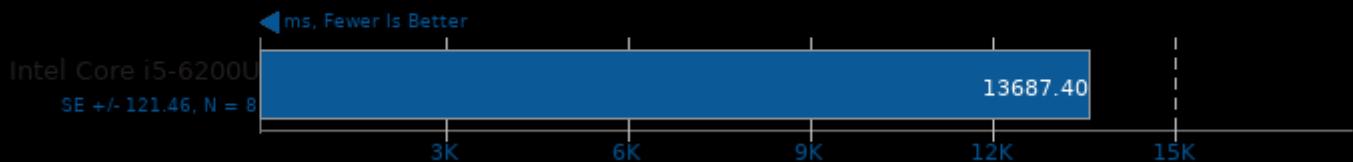
Test: SET



1. (CC) gcc options: -ggdb -rdynamic -lm -ldl -pthread

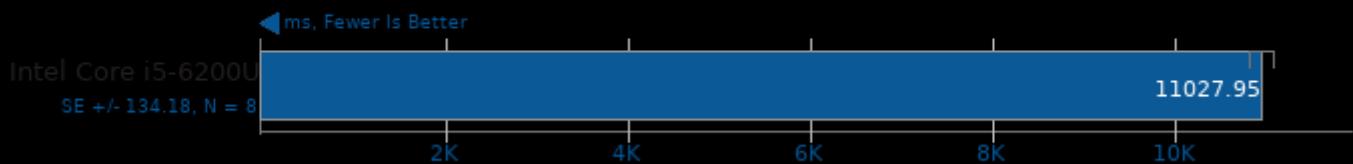
Renaissance 0.9.0

Test: Scala Dotty



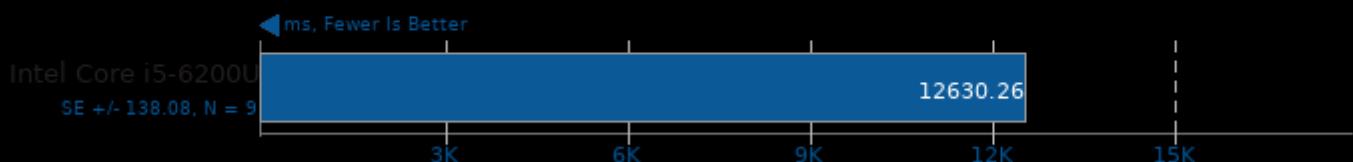
Renaissance 0.9.0

Test: Twitter Finagle



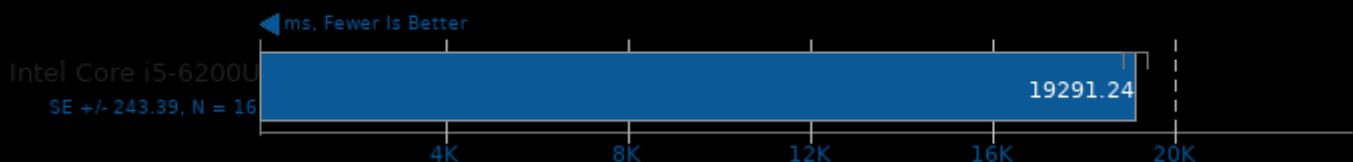
Renaissance 0.9.0

Test: Apache Spark ALS



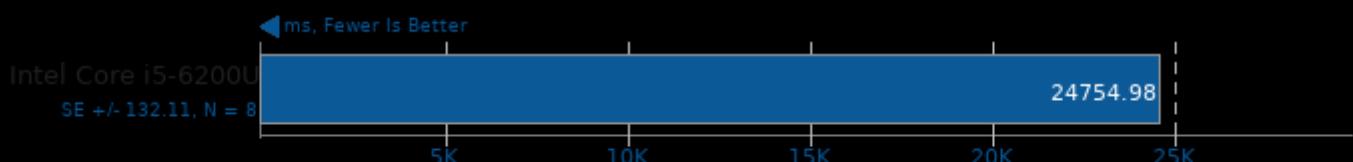
Renaissance 0.9.0

Test: Apache Spark Bayes



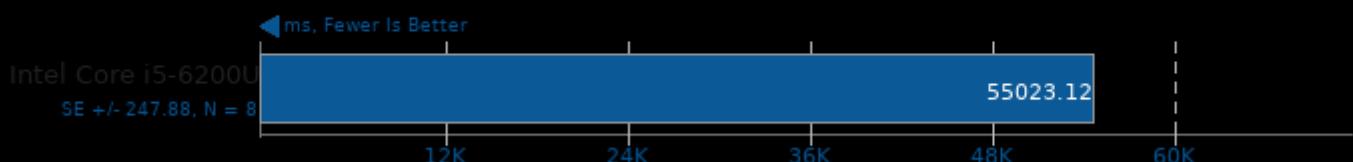
Renaissance 0.9.0

Test: Savina Reactors.IO



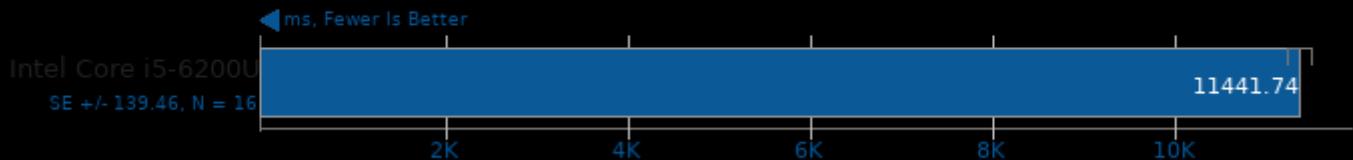
Renaissance 0.9.0

Test: Apache Spark PageRank



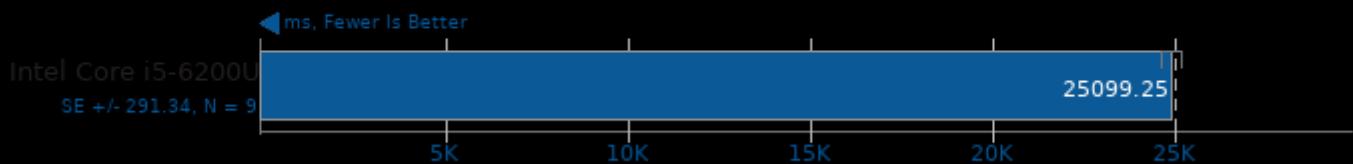
Renaissance 0.9.0

Test: In-Memory Database Shootout



Renaissance 0.9.0

Test: Akka Unbalanced Cobwebbed Tree



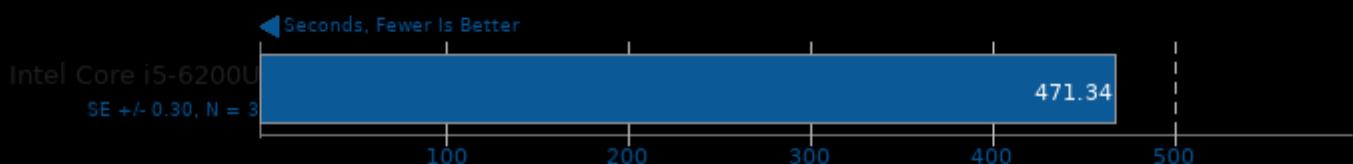
Render Bench



1. (CC) gcc options: -lm -lX11 -lXext -lXrender -lImlib2

Rodinia 2.4

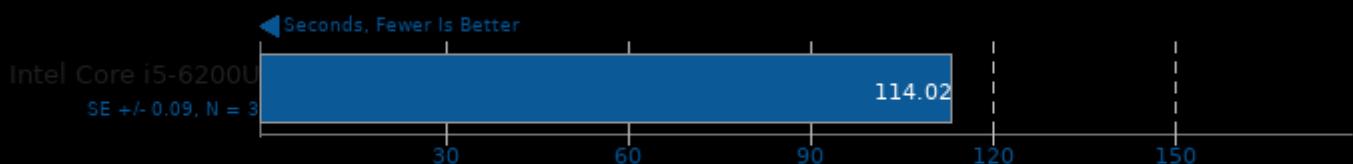
Test: OpenMP LavaMD



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

Rodinia 2.4

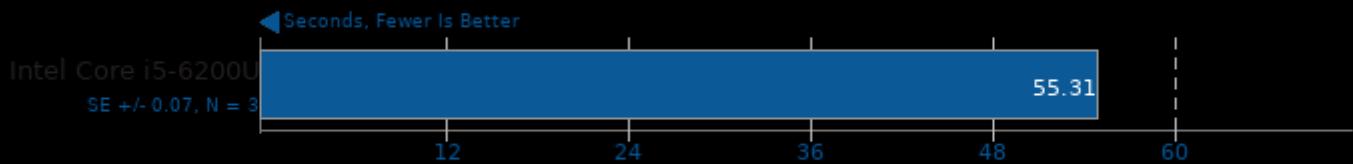
Test: OpenMP CFD Solver



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

Rodinia 2.4

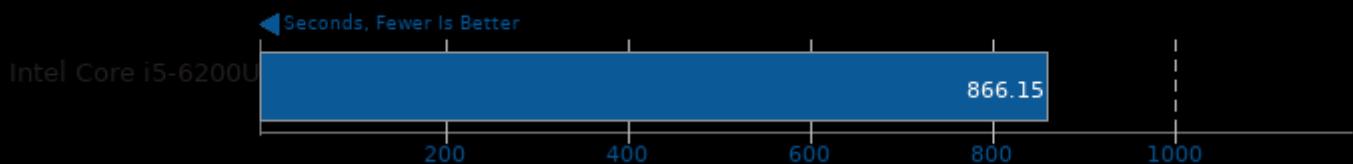
Test: OpenMP Streamcluster



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

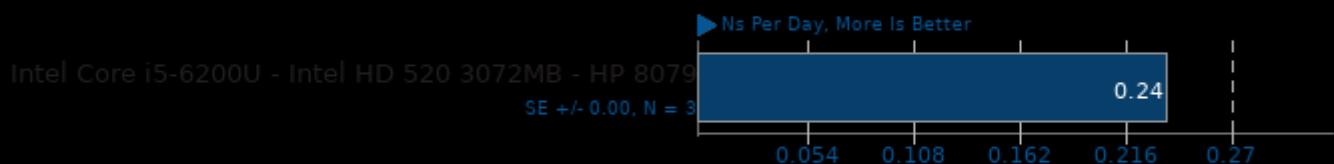
CP2K Molecular Dynamics 6.1

Fayalite-FIST Data



GROMACS 2018.3

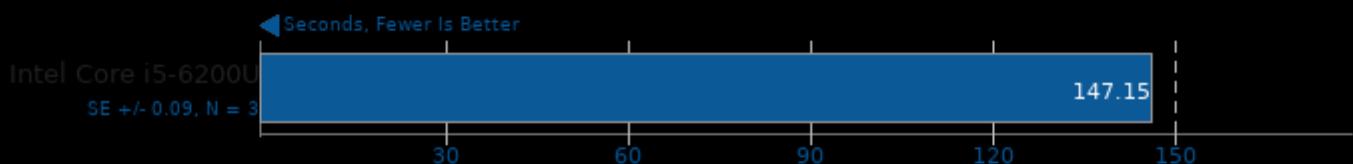
Water Benchmark



1. (CXX) g++ options: -march=core-avx2 -std=c++11 -O3 -funroll-all-loops -fopenmp -frt -fthread -fim

Rust Mandelbrot

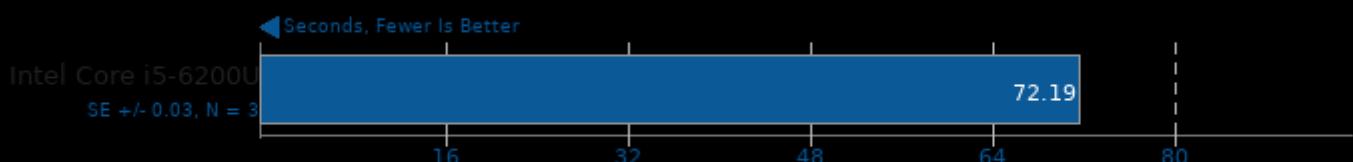
Time To Complete Serial/Parallel Mandelbrot



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

Rust Prime Benchmark

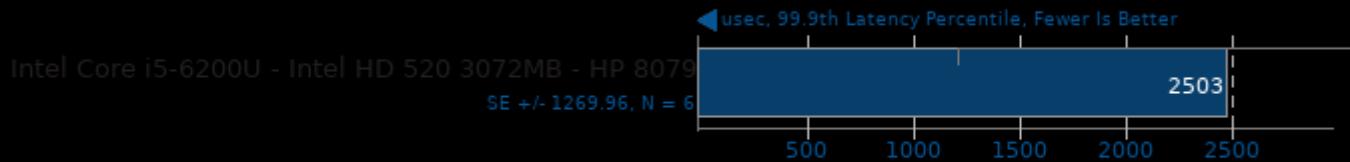
Prime Number Test To 200,000,000



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

Schbench

Message Threads: 2 - Workers Per Message Thread: 2



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

Schbench

Message Threads: 2 - Workers Per Message Thread: 4



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

Schbench

Message Threads: 2 - Workers Per Message Thread: 6



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

Schbench

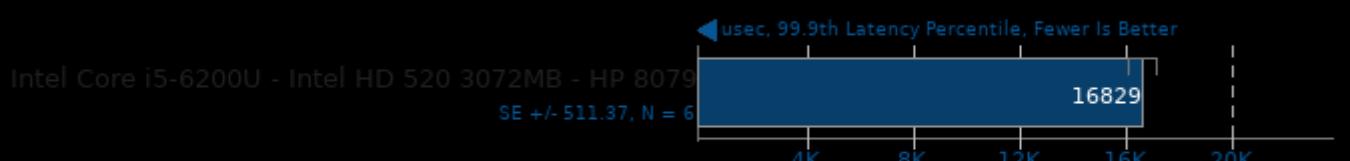
Message Threads: 2 - Workers Per Message Thread: 8



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

Schbench

Message Threads: 4 - Workers Per Message Thread: 2



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

Schbench

Message Threads: 4 - Workers Per Message Thread: 4



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

Schbench

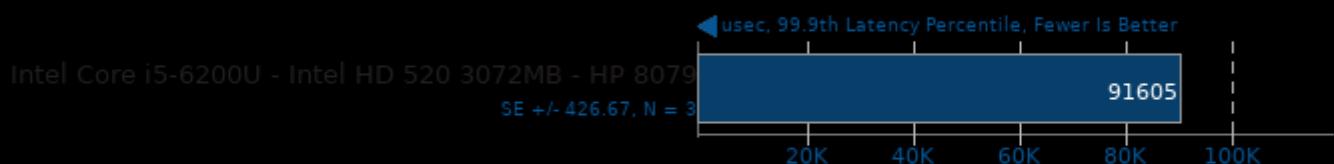
Message Threads: 4 - Workers Per Message Thread: 6



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

Schbench

Message Threads: 4 - Workers Per Message Thread: 8



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

Schbench

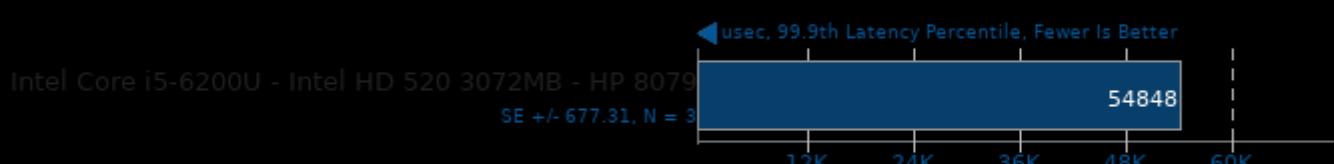
Message Threads: 6 - Workers Per Message Thread: 2



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

Schbench

Message Threads: 6 - Workers Per Message Thread: 4



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

Schbench

Message Threads: 6 - Workers Per Message Thread: 6



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

Schbench

Message Threads: 6 - Workers Per Message Thread: 8



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

Schbench

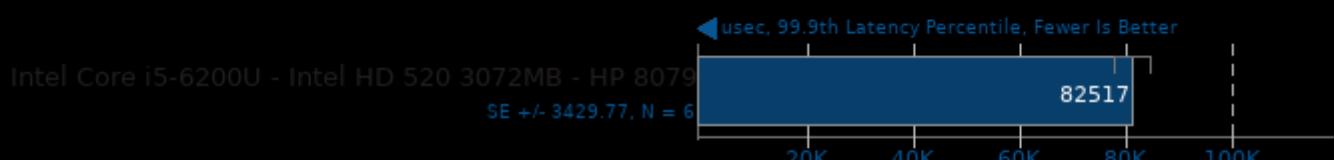
Message Threads: 8 - Workers Per Message Thread: 2



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

Schbench

Message Threads: 8 - Workers Per Message Thread: 4



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

Schbench

Message Threads: 8 - Workers Per Message Thread: 6



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

Schbench

Message Threads: 8 - Workers Per Message Thread: 8



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

Schbench

Message Threads: 16 - Workers Per Message Thread: 2



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

Schbench

Message Threads: 16 - Workers Per Message Thread: 4



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

Schbench

Message Threads: 16 - Workers Per Message Thread: 6



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

Schbench

Message Threads: 16 - Workers Per Message Thread: 8



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

Schbench

Message Threads: 2 - Workers Per Message Thread: 16



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

Schbench

Message Threads: 2 - Workers Per Message Thread: 24



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

Schbench

Message Threads: 2 - Workers Per Message Thread: 32



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

Schbench

Message Threads: 32 - Workers Per Message Thread: 2



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

Schbench

Message Threads: 32 - Workers Per Message Thread: 4



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

Schbench

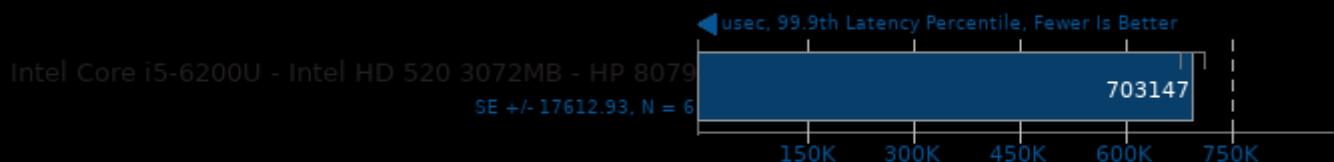
Message Threads: 32 - Workers Per Message Thread: 6



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

Schbench

Message Threads: 32 - Workers Per Message Thread: 8



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

Schbench

Message Threads: 4 - Workers Per Message Thread: 16



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

Schbench

Message Threads: 4 - Workers Per Message Thread: 24



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

Schbench

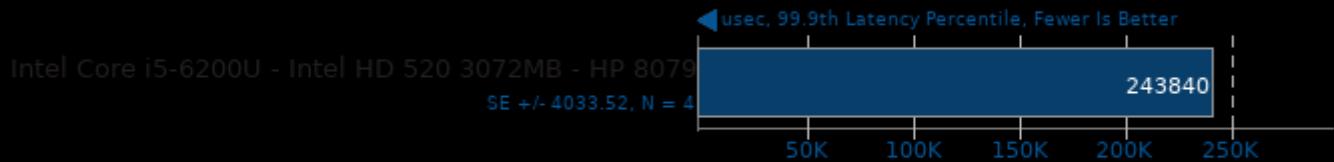
Message Threads: 4 - Workers Per Message Thread: 32



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

Schbench

Message Threads: 6 - Workers Per Message Thread: 16



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

Schbench

Message Threads: 6 - Workers Per Message Thread: 24



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

Schbench

Message Threads: 6 - Workers Per Message Thread: 32



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

Schbench

Message Threads: 8 - Workers Per Message Thread: 16



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

Schbench

Message Threads: 8 - Workers Per Message Thread: 24



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

Schbench

Message Threads: 8 - Workers Per Message Thread: 32



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

Schbench

Message Threads: 16 - Workers Per Message Thread: 16



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

Schbench

Message Threads: 16 - Workers Per Message Thread: 24



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

Schbench

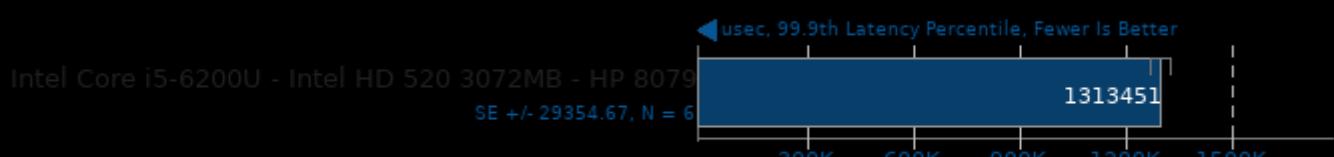
Message Threads: 16 - Workers Per Message Thread: 32



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

Schbench

Message Threads: 32 - Workers Per Message Thread: 16



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

Schbench

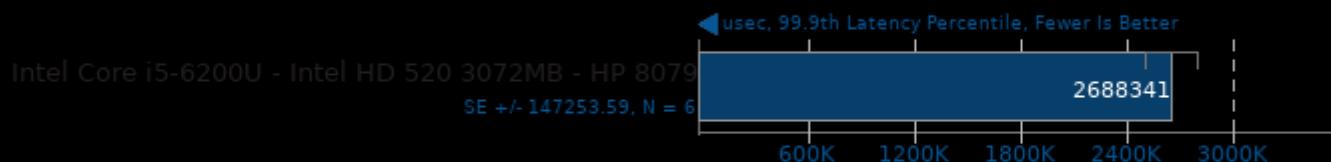
Message Threads: 32 - Workers Per Message Thread: 24



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

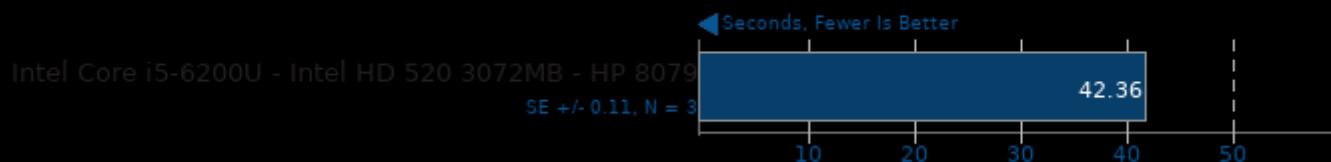
Schbench

Message Threads: 32 - Workers Per Message Thread: 32



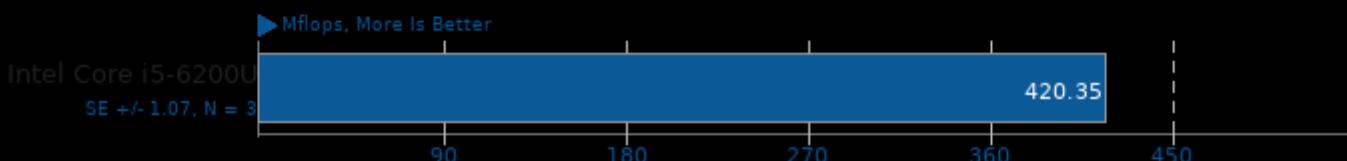
1. (CC) gcc options: -O2 -lpthread

Scikit-Learn 0.17.1



SciMark 2.0

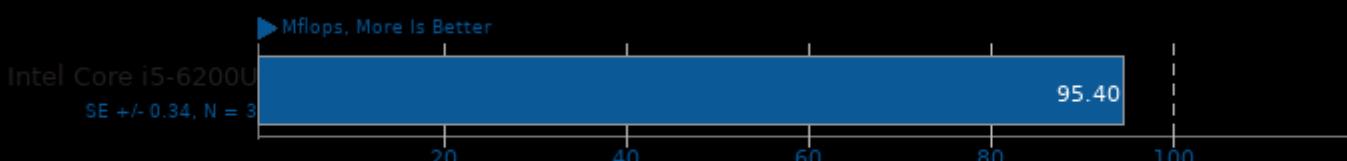
Computational Test: Composite



1. (CC) gcc options: -lm

SciMark 2.0

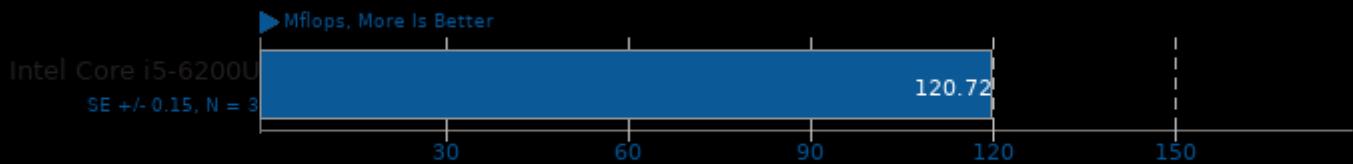
Computational Test: Monte Carlo



1. (CC) gcc options: -lm

SciMark 2.0

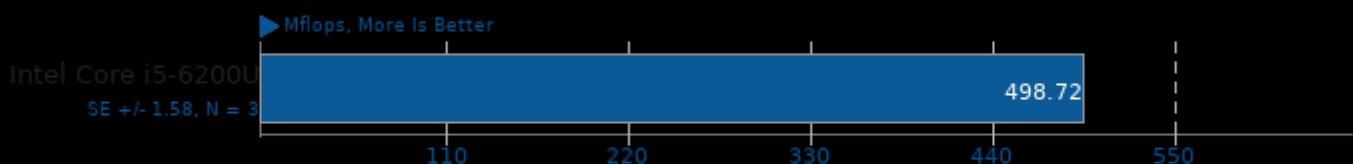
Computational Test: Fast Fourier Transform



1. (CC) gcc options: -lm

SciMark 2.0

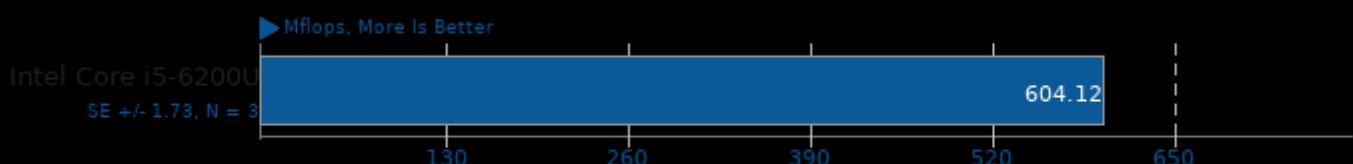
Computational Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm

SciMark 2.0

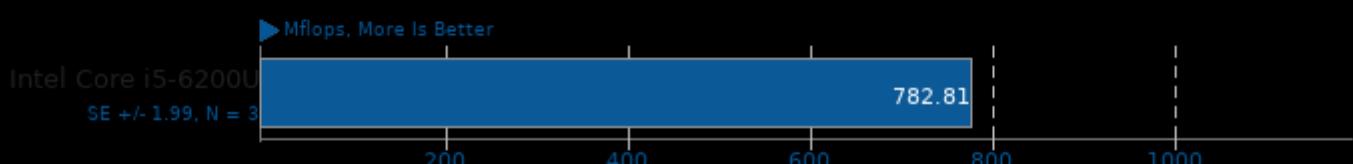
Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

SHOC Scalable Heterogeneous Computing 2015-11-10

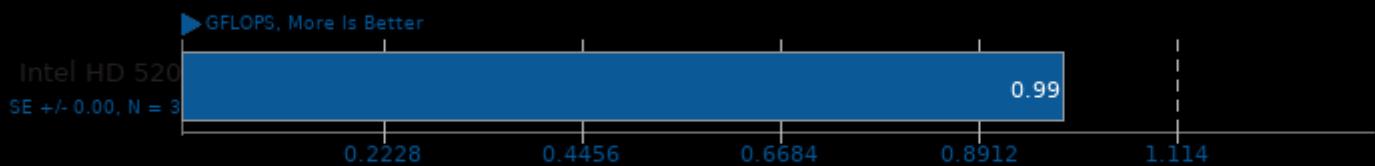
Target: OpenCL - Benchmark: Triad



1. (CXX) g++ options: -O2 -I SHOCCommonMPI -I SHOCCommonOpenCL -I SHOCCommon -I OpenCL -I rt -pthread -I mpi_cxx -I mpi

SHOC Scalable Heterogeneous Computing 2015-11-10

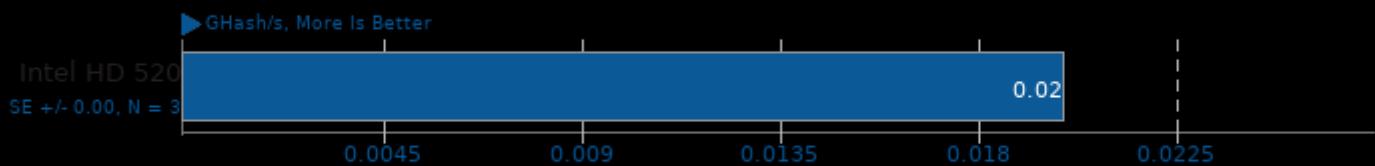
Target: OpenCL - Benchmark: FFT SP



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi_cxx -fmpi

SHOC Scalable Heterogeneous Computing 2015-11-10

Target: OpenCL - Benchmark: MD5 Hash



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi_cxx -fmpi

SHOC Scalable Heterogeneous Computing 2015-11-10

Target: OpenCL - Benchmark: Max SP Flops



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi_cxx -fmpi

SHOC Scalable Heterogeneous Computing 2015-11-10

Target: OpenCL - Benchmark: Bus Speed Download



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi_cxx -fmpi

SHOC Scalable Heterogeneous Computing 2015-11-10

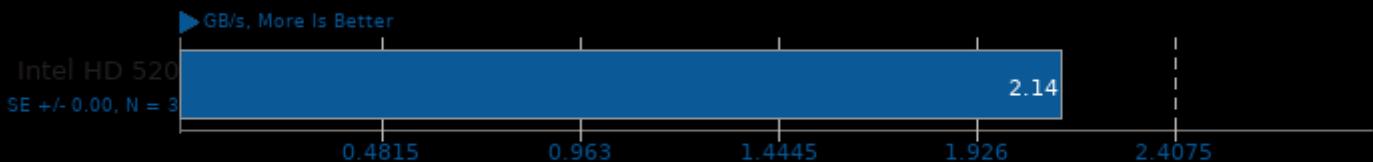
Target: OpenCL - Benchmark: Bus Speed Readback



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi_cxx -fmpi

SHOC Scalable Heterogeneous Computing 2015-11-10

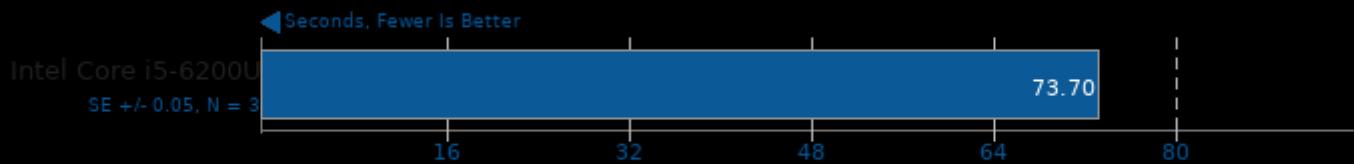
Target: OpenCL - Benchmark: Texture Read Bandwidth



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi_cxx -fmpi

Smallpt 1.0

Global Illumination Renderer; 128 Samples



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

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