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# FreeBSD vs. DragonFlyBSD vs. Ubuntu Linux - Intel Core i9 10900K

Intel Core i9-10900K BSD vs. Linux benchmarking for a future article.

**Automated Executive Summary**

*Ubuntu 20.04 had the most wins, coming in first place for 89% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Ubuntu 20.04) was 1.791x the speed of the slowest (DragonFlyBSD 5.8.1). FreeBSD 12.1 was 0.779x the speed of Ubuntu 20.04, FreeBSD 12.1 + GCC9 was 0.888x the speed of FreeBSD 12.1, DragonFlyBSD 5.8.1 + GCC9 was 0.813x the speed of FreeBSD 12.1 + GCC9, DragonFlyBSD 5.8.1 was 0.992x the speed of DragonFlyBSD 5.8.1 + GCC9.*

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

*LAME MP3 Encoding (WAV To MP3) at 4.729x*
*GraphicsMagick (Operation: HWB Color Space) at 3.528x*
*GraphicsMagick (Operation: Noise-Gaussian) at 3.067x*
*PyPerformance (Benchmark: django_template) at 2.831x*
*PyBench (Total For Average Test Times) at 2.385x*
*Git (Time To Complete Common Git Commands) at 2.332x*
*PyPerformance (Benchmark: float) at 2.11x*
*PHPBench (PHP Benchmark Suite) at 2.012x*

*GraphicsMagick (Operation: Resizing) at 2.006x*
*GraphicsMagick (Operation: Swirl) at 1.955x.*

# Test Systems:

## FreeBSD 12.1

Processor: Intel Core i9-10900K @ 3.60GHz (20 Cores), Motherboard: Gigabyte Z490 AORUS MASTER-CF, Chipset: Intel, Memory: 16GB, Disk: Samsung SSD 970 EVO 250GB, Graphics: NVIDIA GeForce RTX 2060 Rev. A, Audio: NVIDIA (0x10f9) HDA

OS: FreeBSD, Kernel: 12.1-RELEASE (x86_64), Compiler: Clang 8.0.1 (SVN 366581), File-System: zfs, Screen Resolution: 1024x768

Python Notes: Python 3.7.7

## FreeBSD 12.1 + GCC9

Processor: Intel Core i9-10900K @ 3.60GHz (20 Cores), Motherboard: Gigabyte Z490 AORUS MASTER-CF, Chipset: Intel, Memory: 16GB, Disk: Samsung SSD 970 EVO 250GB, Graphics: NVIDIA GeForce RTX 2060 Rev. A, Audio: NVIDIA (0x10f9) HDA

OS: FreeBSD, Kernel: 12.1-RELEASE (x86_64), Compiler: GCC 9.3.0 + Clang 8.0.1 (SVN 366581), File-System: zfs, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-portbld-freebsd12.1 --disable-nls --enable-gnu-indirect-function --enable-languages=c,c++,objc,fortran --enable-multilib --enable-plugin --localstatedir=/var --mandir=/usr/local/man --with-as=/usr/local/bin/as --with-build-config=bootstrap-debug --with-gmp=/usr/local --with-ld=/usr/local/bin/ld
Python Notes: Python 3.7.7

## DragonFlyBSD 5.8.1

Processor: Intel Core i9-10900K @ 3.60GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER-CF, Chipset: Intel, Memory: 16GB, Disk: NVME-PCIe, Graphics: NVIDIA GeForce RTX 2060 Rev. A

OS: DragonFly, Kernel: 5.8-RELEASE (x86_64), Compiler: GCC 8.3, File-System: hammer2

Security Notes: Meltdown Mitigation

## DragonFlyBSD 5.8.1 + GCC9

Processor: Intel Core i9-10900K @ 3.60GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER-CF, Chipset: Intel, Memory: 16GB, Disk: NVME-PCIe, Graphics: NVIDIA GeForce RTX 2060 Rev. A

OS: DragonFly, Kernel: 5.8-RELEASE (x86_64), Compiler: GCC 9.3.0, File-System: hammer2

Compiler Notes: --build=x86_64-portbld-dragonfly5.8 --disable-multilib --disable-nls --enable-gnu-indirect-function --enable-languages=c,c++,objc,fortran --enable-plugin --localstatedir=/var --mandir=/usr/local/man --with-as=/usr/local/bin/as --with-build-config=bootstrap-debug --with-gmp=/usr/local --with-ld=/usr/local/bin/ld
Python Notes: Python 3.7.7
Security Notes: Meltdown Mitigation

## Ubuntu 20.04

Processor: Intel Core i9-10900K @ 5.30GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER (F3 BIOS), Chipset: Intel Comet Lake PCH, Memory: 16GB, Disk: Samsung SSD 970 EVO 250GB, Graphics: llvmpipe 16GB, Audio: Realtek ALC1220, Network: Intel Device 15f3 + Intel Wi-Fi 6 AX201

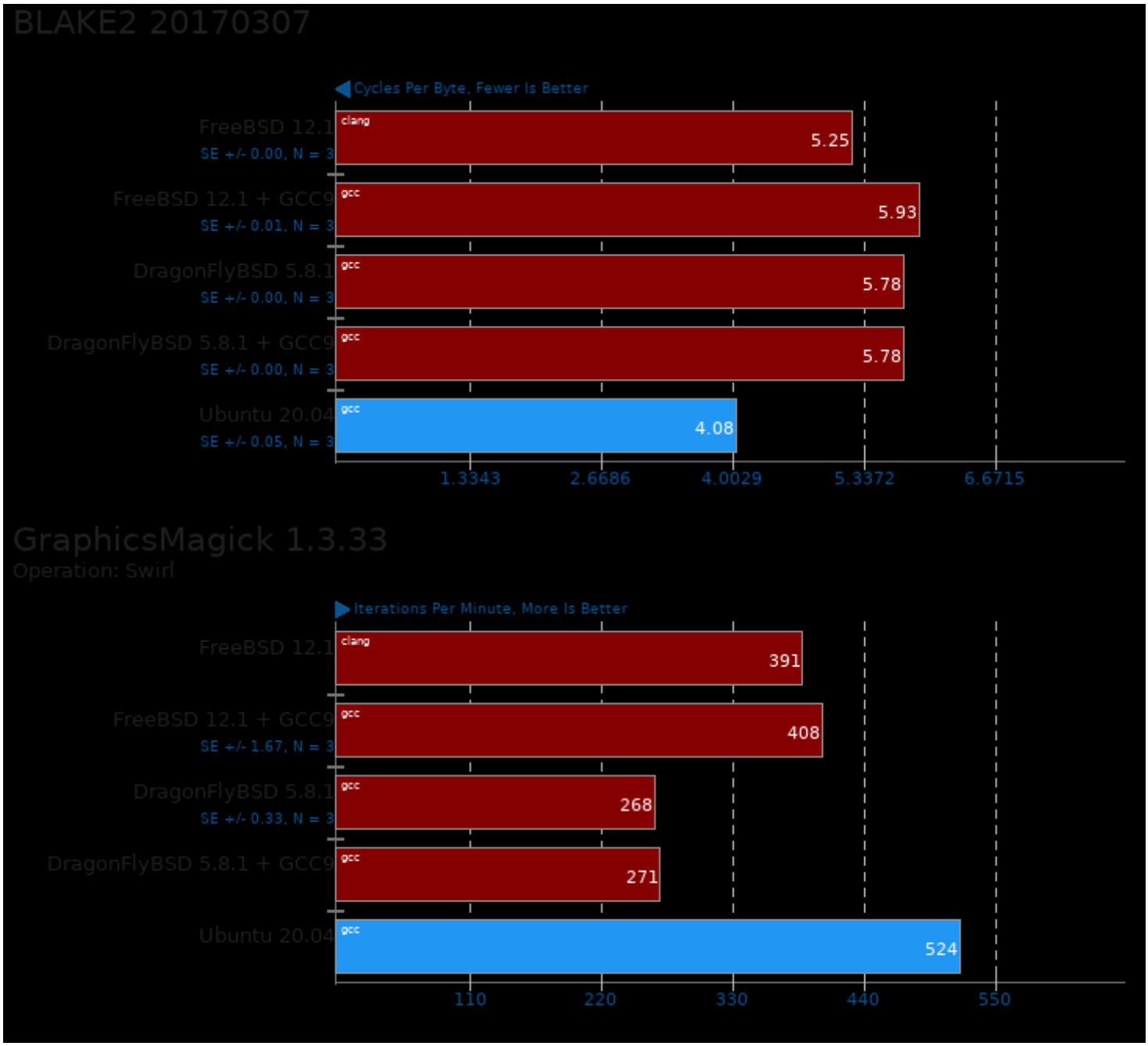
OS: Ubuntu 20.04, Kernel: 5.4.0-37-generic (x86_64), Desktop: GNOME Shell 3.36.1, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 3.3 Mesa 20.0.4 (LLVM 9.0.1 256 bits), Compiler: GCC 9.3.0, File-System: zfs, Screen Resolution: 1024x768

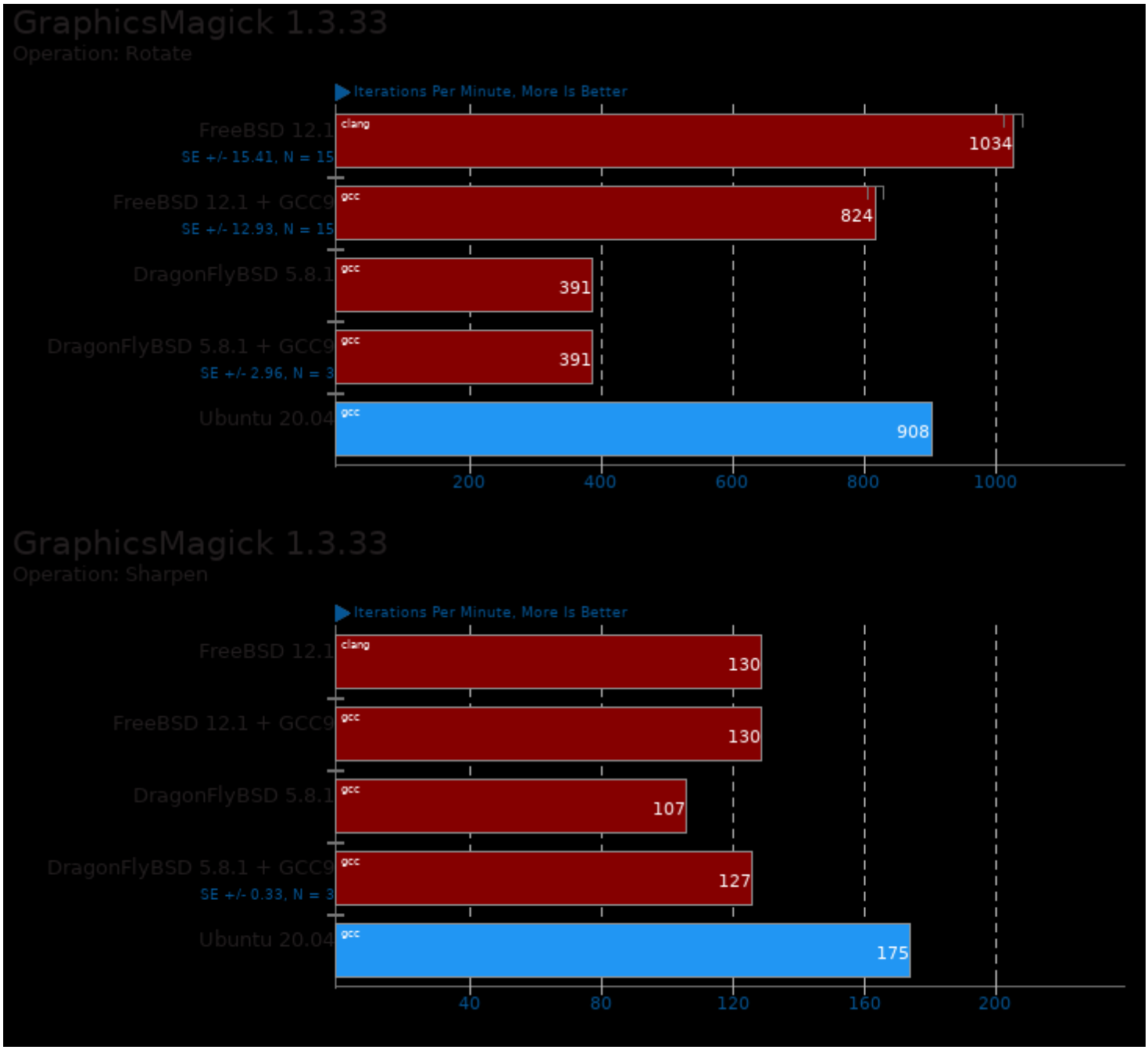
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none,hsa --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=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xc8
Python Notes: Python 3.8.2
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

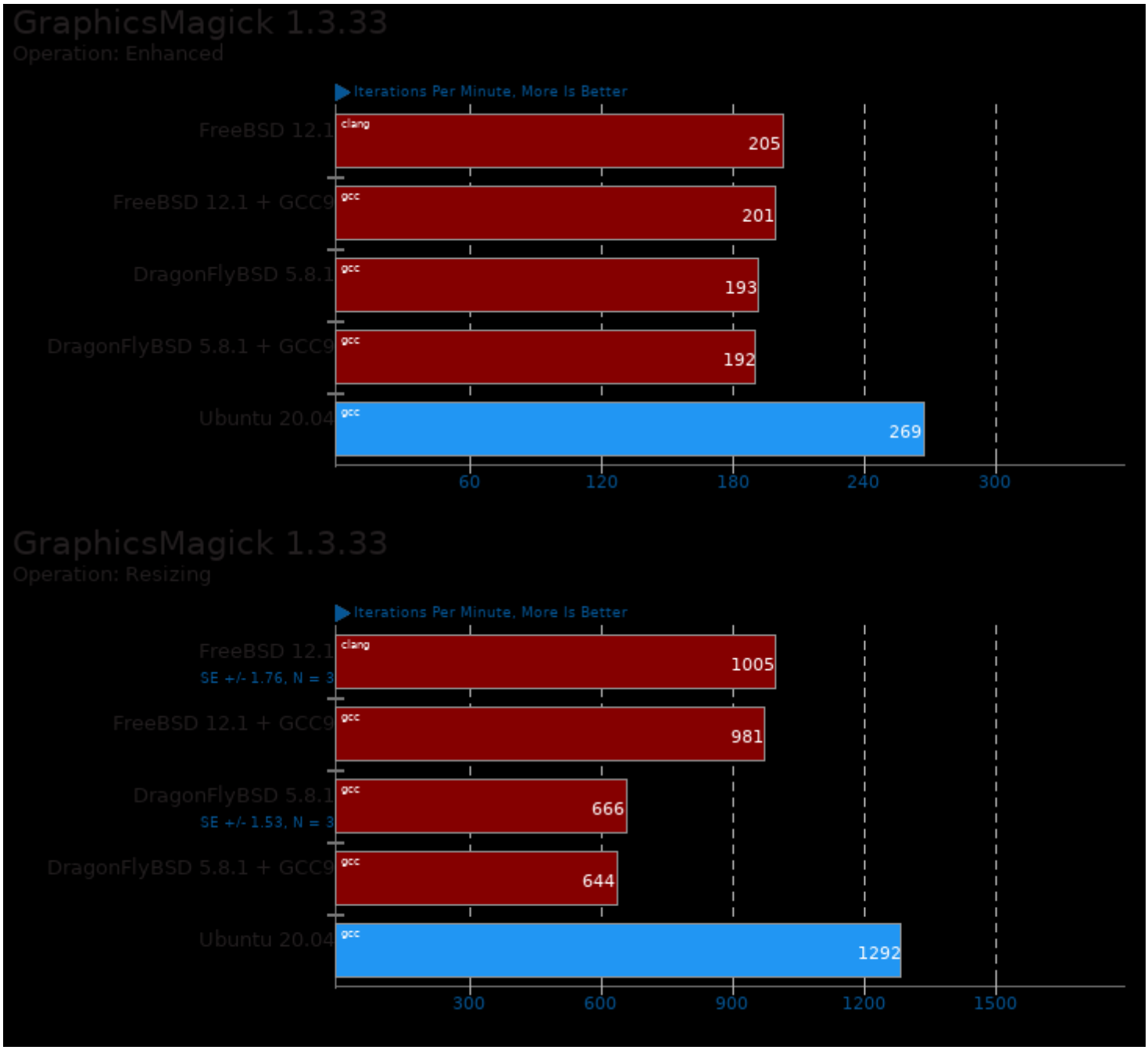
| | FreeBSD 12.1 | FreeBSD 12.1 + GCC9 | DragonFlyBSD 5.8.1 | DragonFlyBSD 5.8.1 + GCC9 | Ubuntu 20.04 |
|---|---|---|---|---|---|
| **BLAKE2 (Cycles/Byte)** | 5.25 | **5.93** | 5.78 | 5.78 | **4.08** |
| **Normalized** | 77.71% | 68.8% | 70.59% | 70.59% | 100% |
| **Standard Deviation** | 0.1% | 0.2% | 0% | 0.1% | 2.1% |
| **GraphicsMagick - Swirl (Iterations/min)** | 391 | 408 | **268** | 271 | **524** |
| **Normalized** | 74.62% | 77.86% | 51.15% | 51.72% | 100% |
| **Standard Deviation** | | 0.7% | 0.2% | | |
| **GraphicsMagick - Rotate (Iterations/min)** | **1034** | 824 | **391** | **391** | 908 |
| **Normalized** | 100% | 79.69% | 37.81% | 37.81% | 87.81% |
| **Standard Deviation** | 5.8% | 6.1% | | 1.3% | |
| **GraphicsMagick - Sharpen (Iterations/min)** | 130 | 130 | **107** | 127 | **175** |
| **Normalized** | 74.29% | 74.29% | 61.14% | 72.57% | 100% |
| **Standard Deviation** | | | | 0.5% | |
| **GraphicsMagick - Enhanced (Iterations/min)** | 205 | 201 | 193 | **192** | **269** |
| **Normalized** | 76.21% | 74.72% | 71.75% | 71.38% | 100% |
| **GraphicsMagick - Resizing (Iterations/min)** | 1005 | 981 | 666 | **644** | **1292** |
| **Normalized** | 77.79% | 75.93% | 51.55% | 49.85% | 100% |
| **Standard Deviation** | 0.3% | | 0.4% | | |
| **GraphicsMagick - Noise-Gaussian (Iterations/min)** | 263 | 194 | **104** | **104** | **319** |
| **Normalized** | 82.45% | 60.82% | 32.6% | 32.6% | 100% |
| **Standard Deviation** | 0.2% | 0.3% | 0.6% | 1% | |
| **GraphicsMagick - HWB Color Space (Iterations/min)** | **1792** | 1321 | 514 | **508** | 1245 |
| **Normalized** | 100% | 73.72% | 28.68% | 28.35% | 69.48% |

| | | | | | |
|---|---|---|---|---|---|
| Standard Deviation | 0% | | 0.9% | | 0.4% |
| **x264 - H.2.V.E (FPS)** | 99.11 | **90.66** | | | **127.17** |
| Normalized | 77.94% | 71.29% | | | 100% |
| Standard Deviation | 1.7% | 2.3% | | | 4.8% |
| **x265 - H.2.1.V.E (FPS)** | 60.75 | 59.32 | | **46.98** | **71.47** |
| Normalized | 85% | 83% | | 65.73% | 100% |
| Standard Deviation | 0.5% | 1% | | 1.6% | 0.7% |
| **Himeno Benchmark - P.P.S (MFLOPS)** | **2722** | 3204 | 3079 | 3074 | **4481** |
| Normalized | 60.75% | 71.5% | 68.7% | 68.6% | 100% |
| Standard Deviation | 0.2% | 0% | 0.2% | 0.3% | 2.3% |
| **Stockfish - Total Time (Nodes/s)** | 27633674 | **27541766** | 28529054 | 28056251 | **35115270** |
| Normalized | 78.69% | 78.43% | 81.24% | 79.9% | 100% |
| Standard Deviation | 1.4% | 1.3% | 1.3% | 0.7% | 0.8% |
| **libavif avifenc - 0 (sec)** | 96.142 | **103.859** | | 102.985 | **71.110** |
| Normalized | 73.96% | 68.47% | | 69.05% | 100% |
| Standard Deviation | 1.2% | 1.9% | | 1.6% | 0.7% |
| **libavif avifenc - 2 (sec)** | 58.493 | 60.874 | | **62.587** | **42.584** |
| Normalized | 72.8% | 69.95% | | 68.04% | 100% |
| Standard Deviation | 1.6% | 1.5% | | 0.7% | 0.9% |
| **libavif avifenc - 8 (sec)** | 6.515 | 6.392 | | **8.743** | **4.532** |
| Normalized | 69.56% | 70.9% | | 51.84% | 100% |
| Standard Deviation | 0.1% | 1.1% | | 0.6% | 0.2% |
| **libavif avifenc - 10 (sec)** | 6.292 | 6.155 | | **8.422** | **4.332** |
| Normalized | 68.85% | 70.38% | | 51.44% | 100% |
| Standard Deviation | 0.4% | 0.2% | | 0.5% | 0.4% |
| **Timed LLVM Compilation - Time To Compile (sec)** | 511.701 | 631.611 | | **656.535** | **507.058** |
| Normalized | 99.09% | 80.28% | | 77.23% | 100% |
| Standard Deviation | 0.5% | 1.1% | | 0.4% | 1.3% |
| **Timed PHP Compilation - Time To Compile (sec)** | **35.101** | 57.662 | 62.051 | **62.544** | 48.284 |
| Normalized | 100% | 60.87% | 56.57% | 56.12% | 72.7% |
| Standard Deviation | 0.5% | 0.4% | 0.6% | 0.7% | 0.5% |
| **C-Ray - Total Time - 4.1.R.P.P (sec)** | **89.692** | 71.469 | 69.902 | 70.003 | **52.119** |
| Normalized | 58.11% | 72.93% | 74.56% | 74.45% | 100% |
| Standard Deviation | 0% | 0% | 0.1% | 0.2% | 0% |
| **FLAC Audio Encoding - WAV To FLAC (sec)** | **12.143** | 9.816 | 9.810 | 9.871 | **7.097** |
| Normalized | 58.45% | 72.3% | 72.34% | 71.9% | 100% |
| Standard Deviation | 0.1% | 0.1% | 1.1% | 1.1% | 1.3% |
| **LAME MP3 Encoding - WAV To MP3 (sec)** | 11.905 | **33.058** | 32.467 | 31.919 | **6.991** |
| Normalized | 58.72% | 21.15% | 21.53% | 21.9% | 100% |
| Standard Deviation | 1.5% | 0.3% | 0.1% | 0% | 0.2% |
| **OpenSSL - R.4.b.P (Signs/sec)** | **2758** | 2759 | 2834 | 2820 | **3757** |
| Normalized | 73.42% | 73.45% | 75.44% | 75.05% | 100% |
| Standard Deviation | 0% | 0% | 0% | 0.8% | 0.1% |
| **libjpeg-turbo tjbench - D.T (Megapixels/sec)** | 166.441449 | **165.752161** | | 170.278508 | **236.262763** |
| Normalized | 70.45% | 70.16% | | 72.07% | 100% |
| Standard Deviation | 0% | 0.1% | | 0.1% | 0.5% |
| **PyBench - T.F.A.T.T (Milliseconds)** | **1746** | 1744 | | 1616 | **732** |

| | | | | | |
|---|---|---|---|---|---|
| **Normalized** | 41.92% | 41.97% | | 45.3% | 100% |
| **Standard Deviation** | 0.4% | 0.3% | | 0.3% | |
| **PyPerformance - float (Milliseconds)** | 172 | 172 | | 170 | 81.5 |
| **Normalized** | 47.38% | 47.38% | | 47.94% | 100% |
| **Standard Deviation** | | | | | 0.1% |
| **PyPerformance - django_template (Milliseconds)** | 107 | 107 | | 95.3 | 37.8 |
| **Normalized** | 35.33% | 35.33% | | 39.66% | 100% |
| **Standard Deviation** | | | | 0.2% | 1.6% |
| **PHPBench - P.B.S (Score)** | 486707 | 479335 | 438893 | 445751 | 883271 |
| **Normalized** | 55.1% | 54.27% | 49.69% | 50.47% | 100% |
| **Standard Deviation** | 0.2% | 0% | 0.1% | 0.9% | 1.8% |
| **Git - T.T.C.C.G.C (sec)** | 64.271 | 64.469 | | 97.526 | 41.826 |
| **Normalized** | 65.08% | 64.88% | | 42.89% | 100% |
| **Standard Deviation** | 0.1% | 0.4% | | 0.8% | 1.4% |

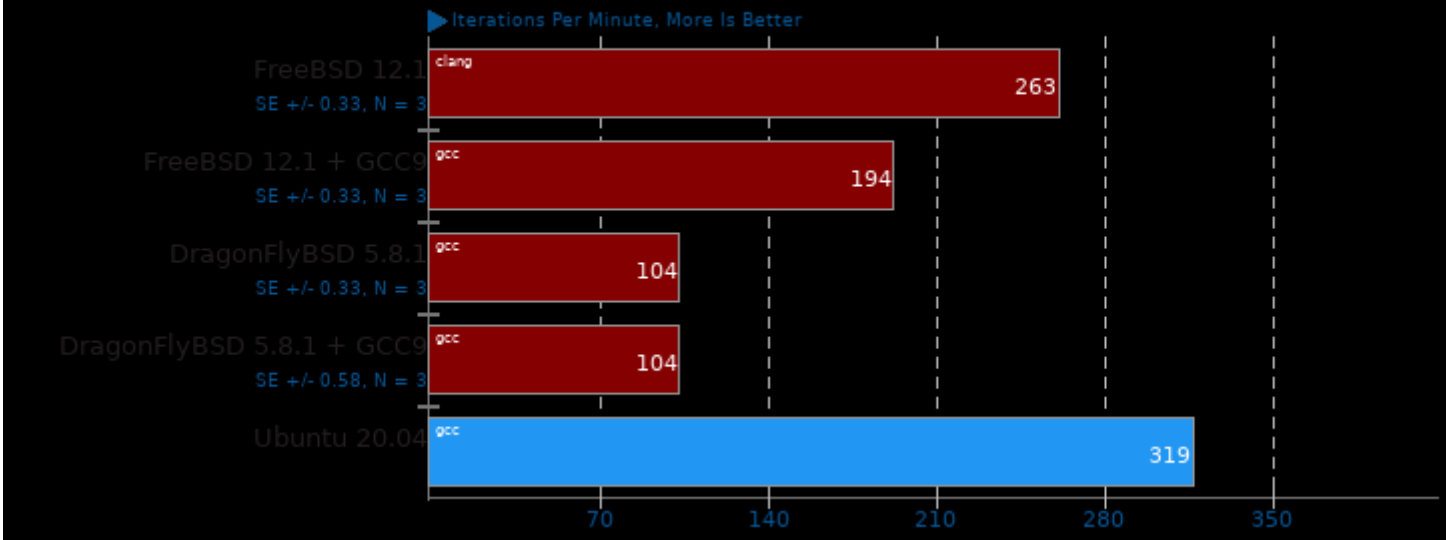

BLAKE2 20170307
Cycles Per Byte, Fewer Is Better
FreeBSD 12.1
SE +/- 0.00, N = 3
clang
5.25
FreeBSD 12.1 + GCC9
SE +/- 0.01, N = 3
gcc
5.93
DragonFlyBSD 5.8.1
SE +/- 0.00, N = 3
gcc
5.78
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.00, N = 3
gcc
5.78
Ubuntu 20.04
SE +/- 0.05, N = 3
gcc
4.08
1.3343
2.6686
4.0029
5.3372
6.6715
GraphicsMagick 1.3.33
Operation: Swirl
Iterations Per Minute, More Is Better
FreeBSD 12.1
clang
391
FreeBSD 12.1 + GCC9
SE +/- 1.67, N = 3
gcc
408
DragonFlyBSD 5.8.1
SE +/- 0.33, N = 3
gcc
268
DragonFlyBSD 5.8.1 + GCC9
gcc
271
Ubuntu 20.04
gcc
524
110
220
330
440
550


GraphicsMagick 1.3.33
Operation: Rotate
Iterations Per Minute, More Is Better
FreeBSD 12.1
SE +/- 15.41, N = 15
clang
1034
FreeBSD 12.1 + GCC9
SE +/- 12.93, N = 15
gcc
824
DragonFlyBSD 5.8.1
gcc
391
DragonFlyBSD 5.8.1 + GCC9
SE +/- 2.96, N = 3
gcc
391
Ubuntu 20.04
gcc
908
200
400
600
800
1000
GraphicsMagick 1.3.33
Operation: Sharpen
Iterations Per Minute, More Is Better
FreeBSD 12.1
clang
130
FreeBSD 12.1 + GCC9
gcc
130
DragonFlyBSD 5.8.1
gcc
107
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.33, N = 3
gcc
127
Ubuntu 20.04
gcc
175
40
80
120
160
200


GraphicsMagick 1.3.33
Operation: Enhanced
Iterations Per Minute, More Is Better
FreeBSD 12.1
clang
205
FreeBSD 12.1 + GCC9
gcc
201
DragonFlyBSD 5.8.1
gcc
193
DragonFlyBSD 5.8.1 + GCC9
gcc
192
Ubuntu 20.04
gcc
269
60
120
180
240
300
GraphicsMagick 1.3.33
Operation: Resizing
Iterations Per Minute, More Is Better
FreeBSD 12.1
SE +/- 1.76, N = 3
clang
1005
FreeBSD 12.1 + GCC9
gcc
981
DragonFlyBSD 5.8.1
SE +/- 1.53, N = 3
gcc
666
DragonFlyBSD 5.8.1 + GCC9
gcc
644
Ubuntu 20.04
gcc
1292
300
600
900
1200
1500

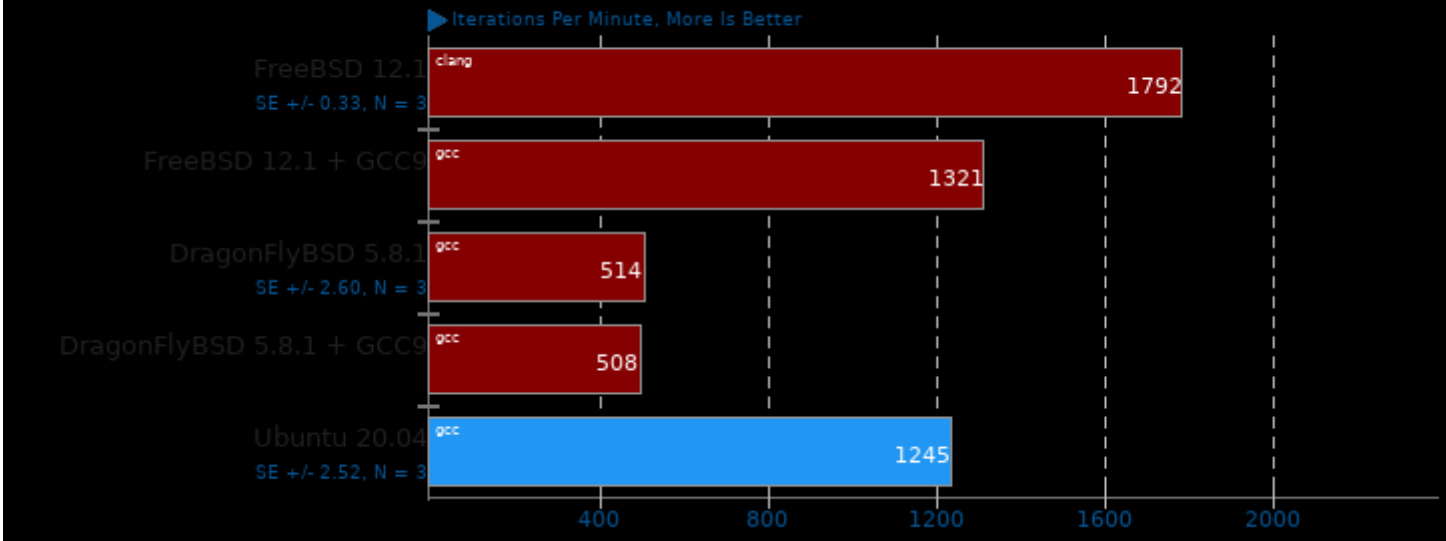
## GraphicsMagick 1.3.33

Operation: Noise-Gaussian



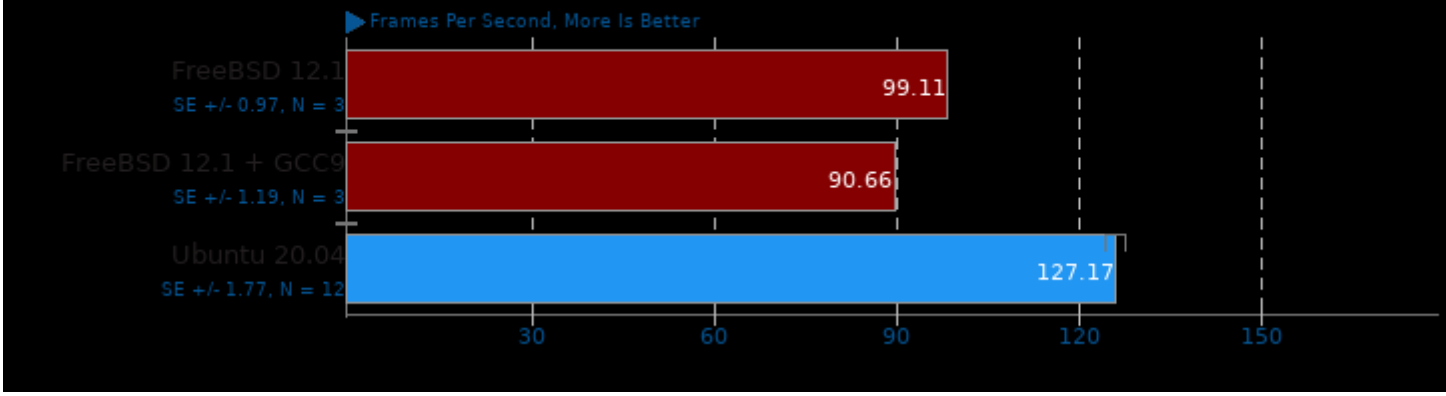

## GraphicsMagick 1.3.33

Operation: HWB Color Space

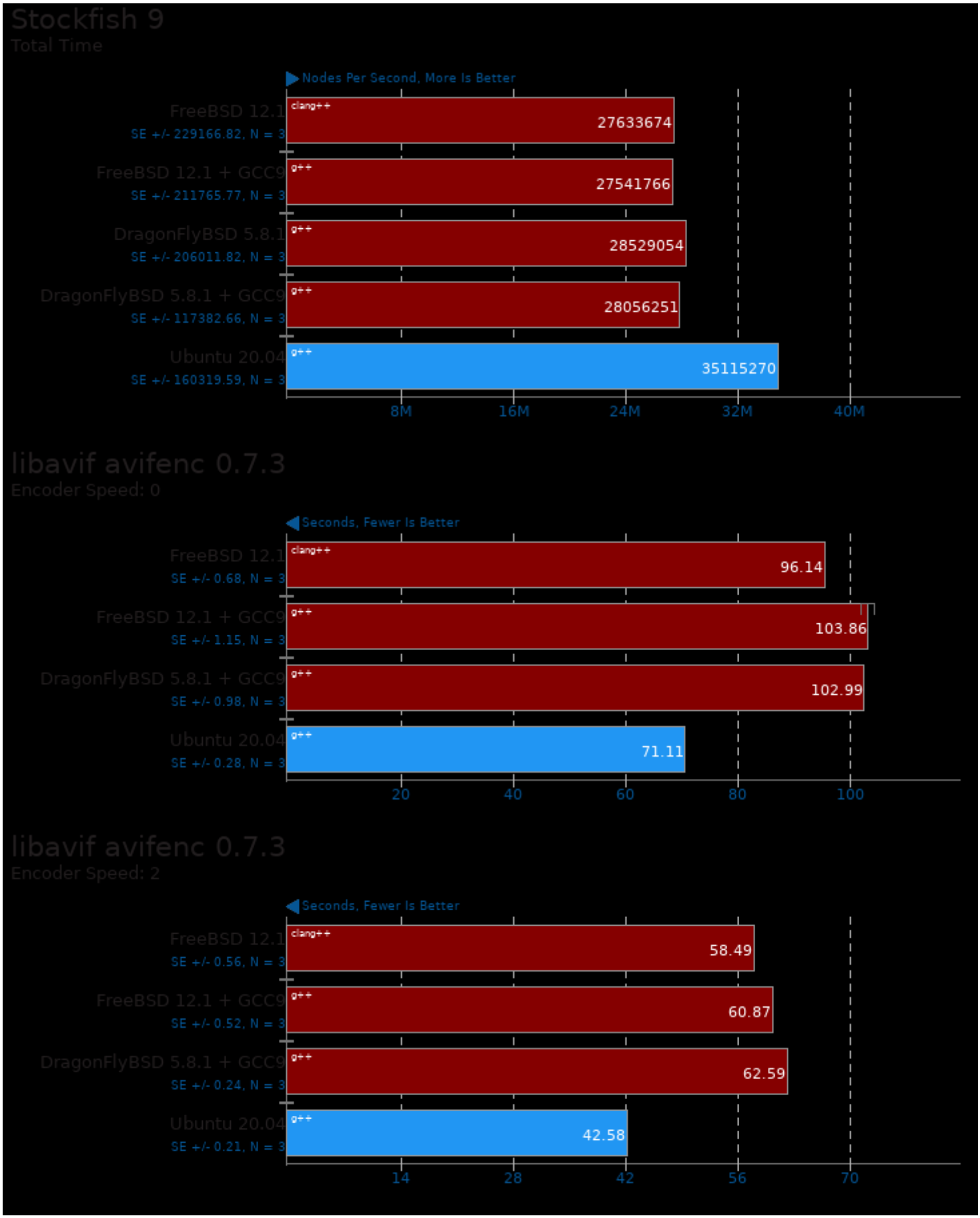



## x264 2019-12-17

H.264 Video Encoding

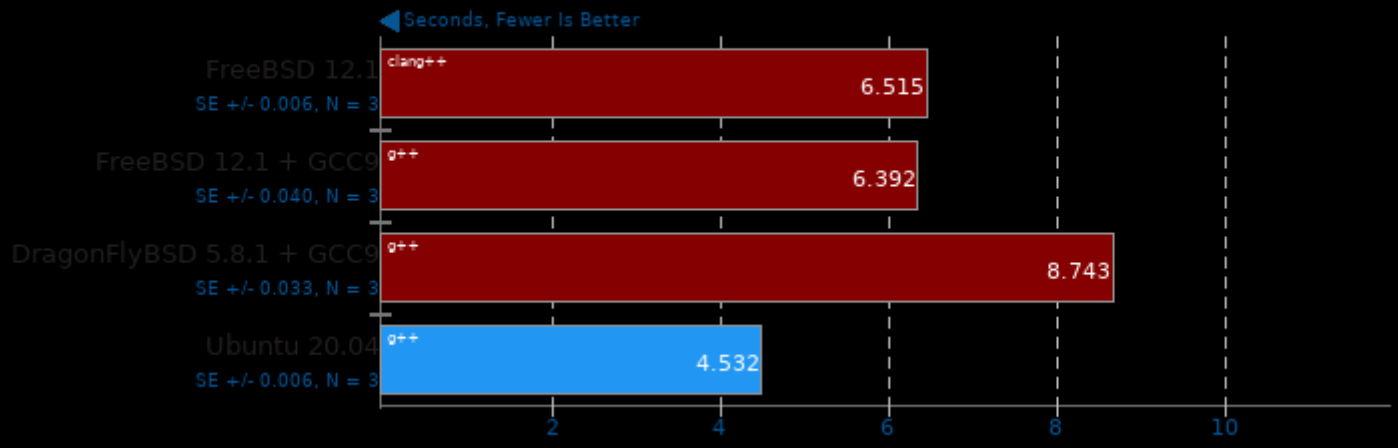



x265 3.1.2
H.265 1080p Video Encoding
Frames Per Second, More Is Better
FreeBSD 12.1
SE +/- 0.19, N = 3
clang++
60.75
FreeBSD 12.1 + GCC9
SE +/- 0.34, N = 3
g++
59.32
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.44, N = 3
g++
46.98
Ubuntu 20.04
SE +/- 0.30, N = 3
g++
71.47
16
32
48
64
80
Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
FreeBSD 12.1
SE +/- 2.88, N = 3
clang
2722.26
FreeBSD 12.1 + GCC9
SE +/- 0.69, N = 3
gcc
3204.40
DragonFlyBSD 5.8.1
SE +/- 3.32, N = 3
gcc
3078.59
DragonFlyBSD 5.8.1 + GCC9
SE +/- 5.85, N = 3
gcc
3074.30
Ubuntu 20.04
SE +/- 58.54, N = 3
gcc
4481.40
1000
2000
3000
4000
5000


Stockfish 9
Total Time
Nodes Per Second, More Is Better
FreeBSD 12.1
SE +/- 229166.82, N = 3
clang++
27633674
FreeBSD 12.1 + GCC9
SE +/- 211765.77, N = 3
g++
27541766
DragonFlyBSD 5.8.1
SE +/- 206011.82, N = 3
g++
28529054
DragonFlyBSD 5.8.1 + GCC9
SE +/- 117382.66, N = 3
g++
28056251
Ubuntu 20.04
SE +/- 160319.59, N = 3
g++
35115270
8M
16M
24M
32M
40M
libavif avifenc 0.7.3
Encoder Speed: 0
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.68, N = 3
clang++
96.14
FreeBSD 12.1 + GCC9
SE +/- 1.15, N = 3
g++
103.86
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.98, N = 3
g++
102.99
Ubuntu 20.04
SE +/- 0.28, N = 3
g++
71.11
20
40
60
80
100
libavif avifenc 0.7.3
Encoder Speed: 2
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.56, N = 3
clang++
58.49
FreeBSD 12.1 + GCC9
SE +/- 0.52, N = 3
g++
60.87
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.24, N = 3
g++
62.59
Ubuntu 20.04
SE +/- 0.21, N = 3
g++
42.58
14
28
42
56
70

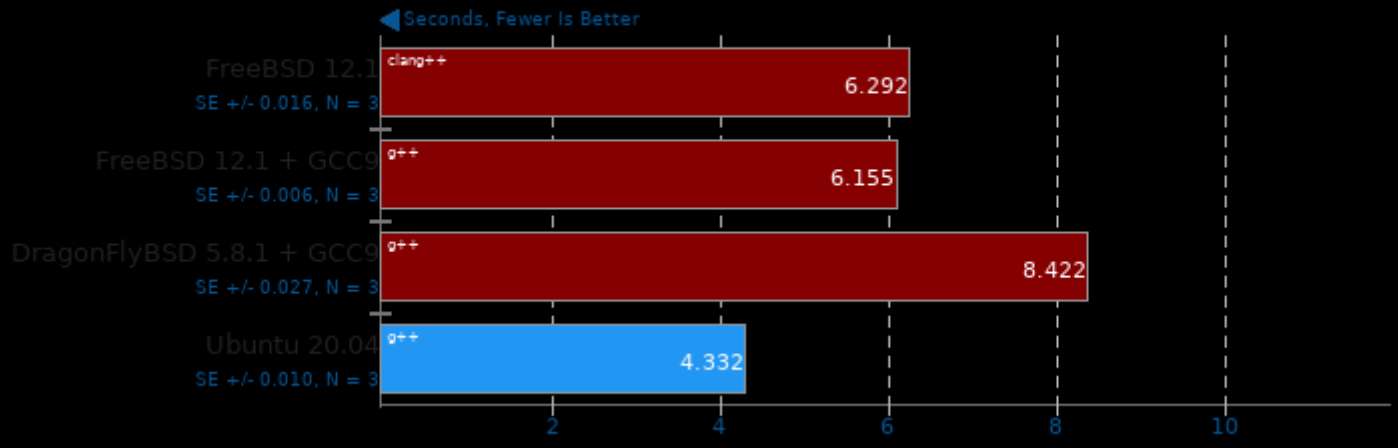
## libavif avifenc 0.7.3

Encoder Speed: 8



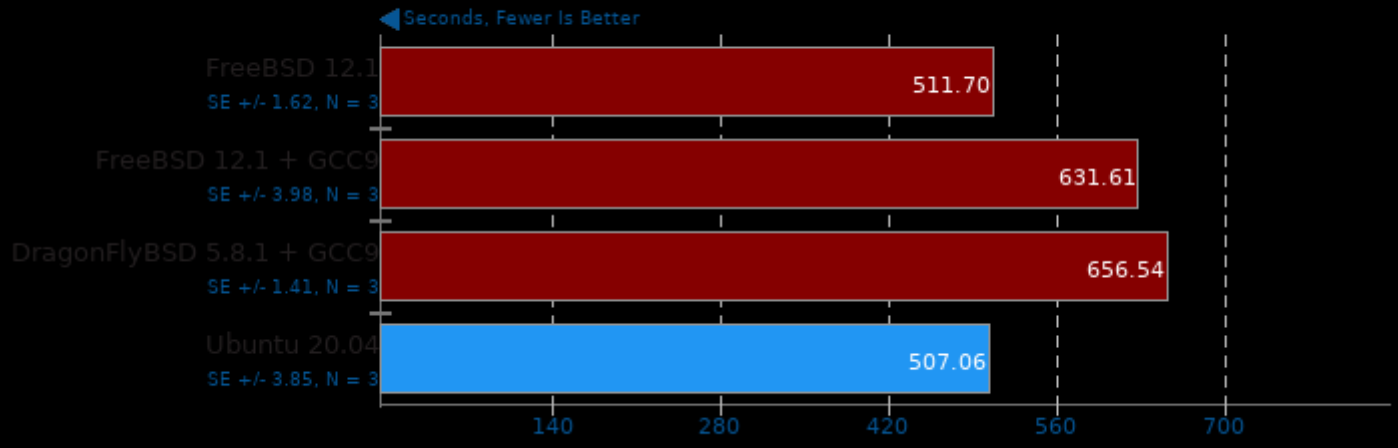

## libavif avifenc 0.7.3

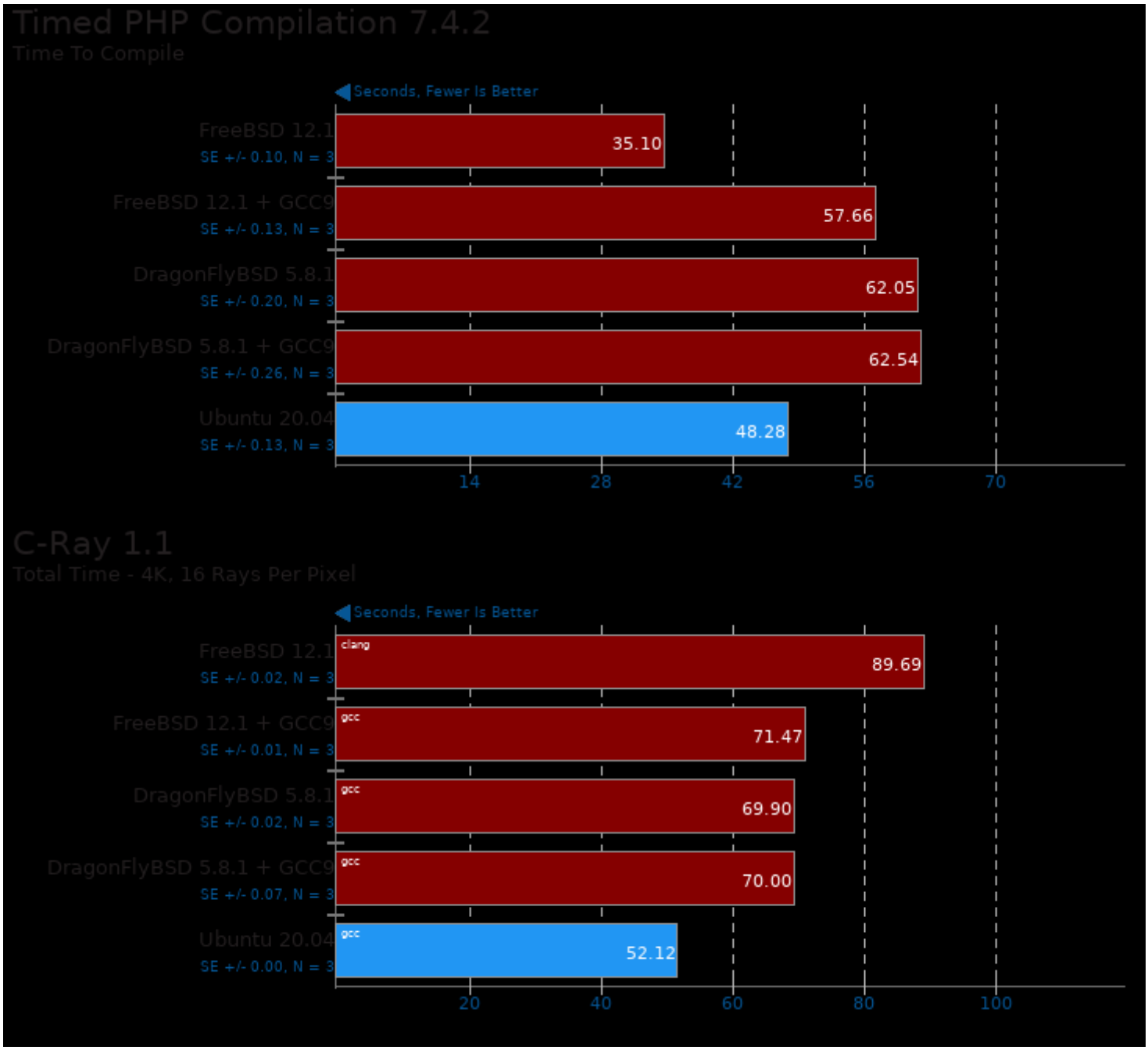
Encoder Speed: 10

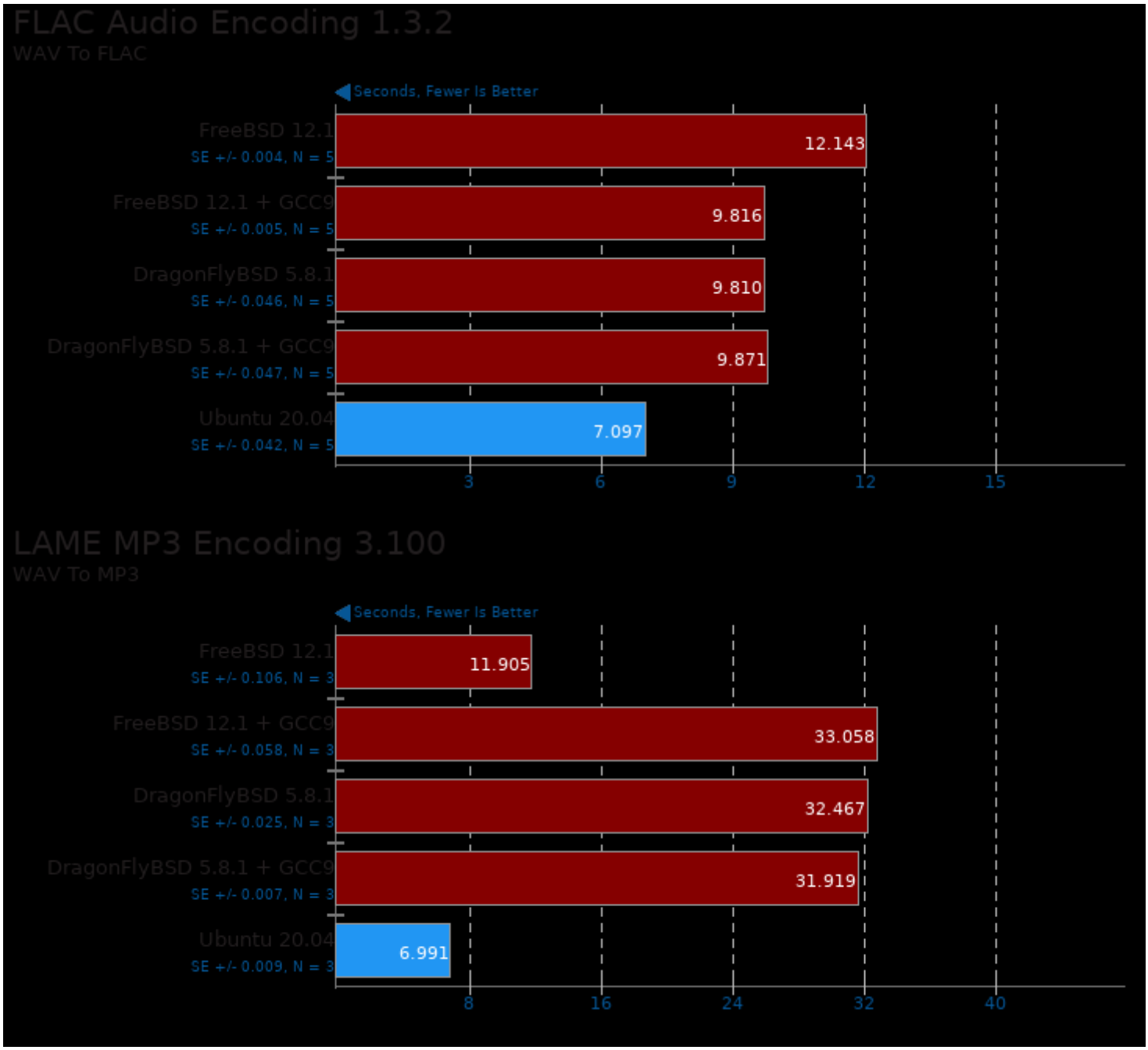


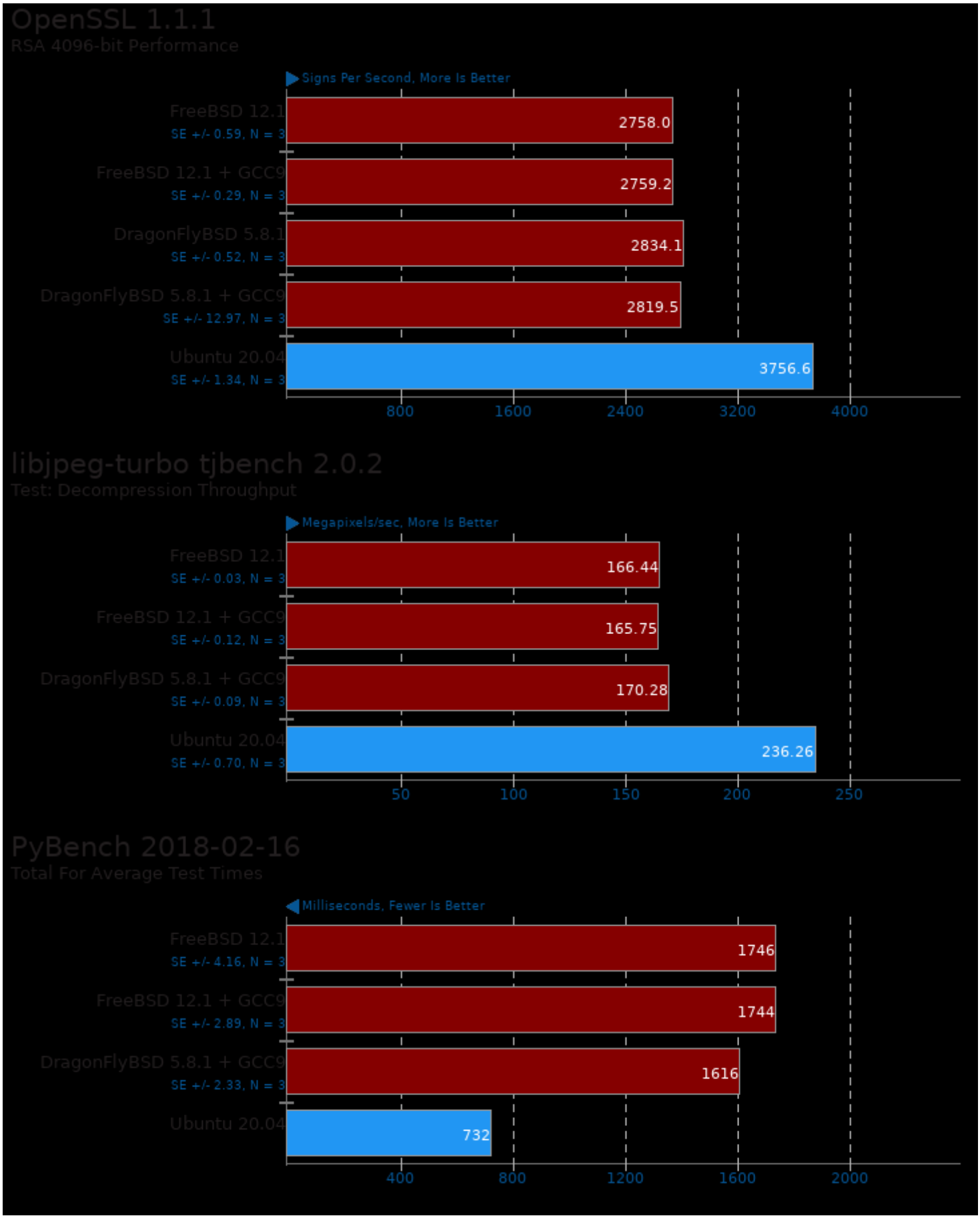

## Timed LLVM Compilation 10.0

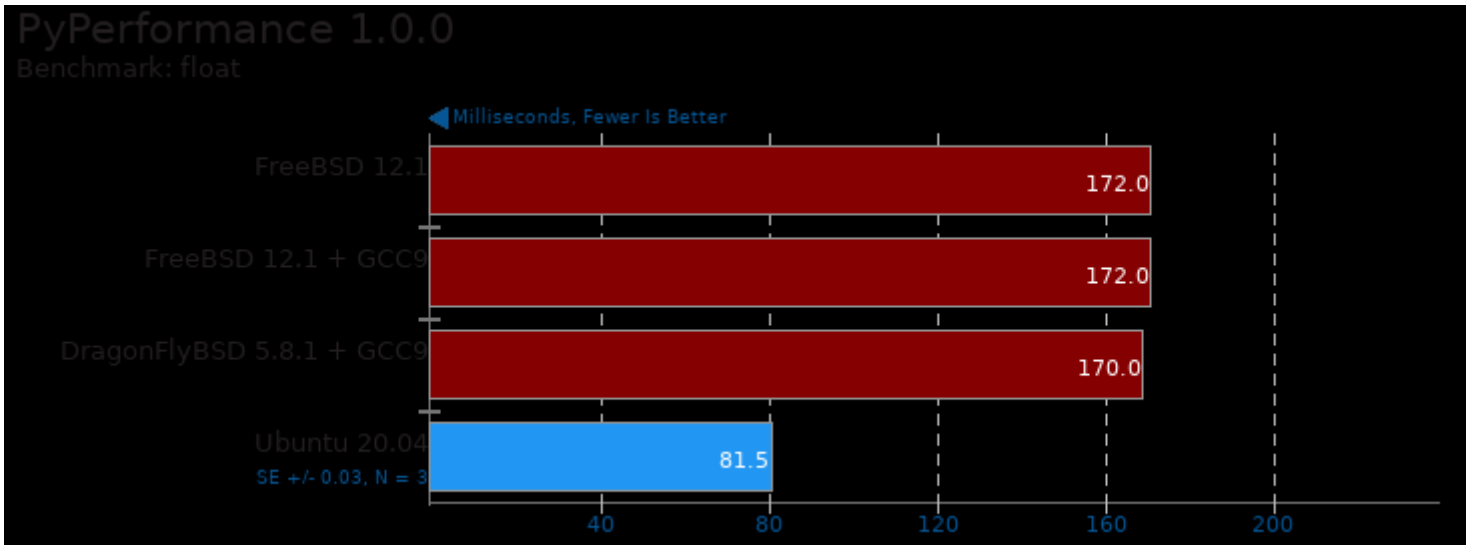
Time To Compile

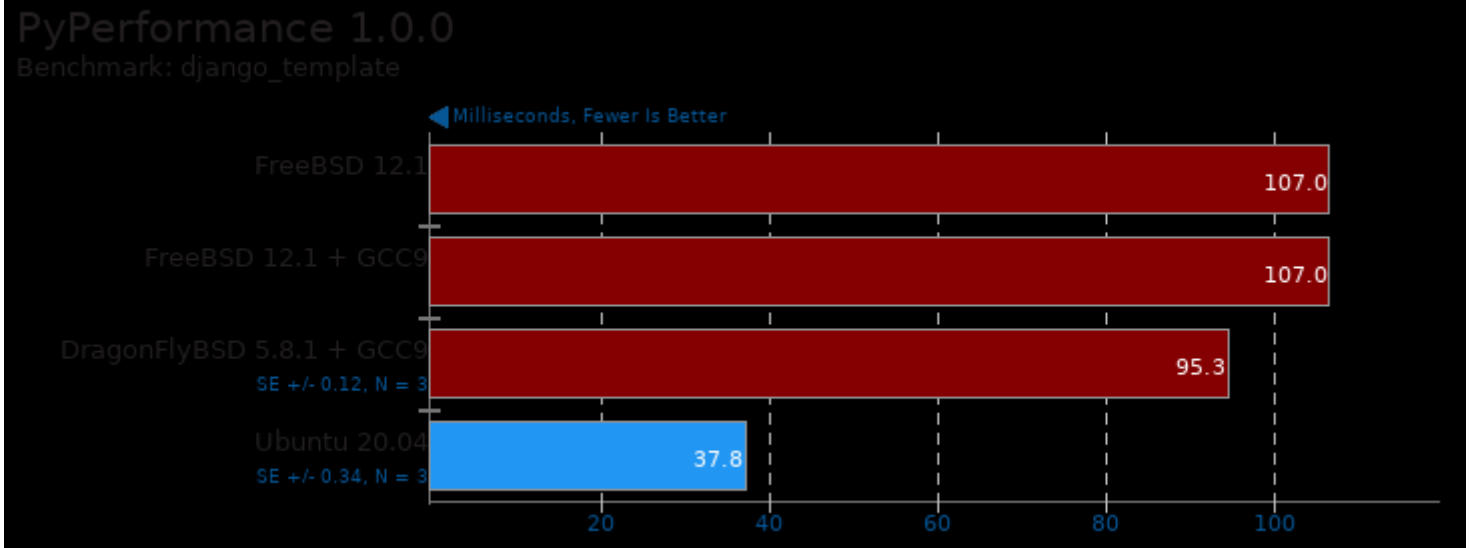


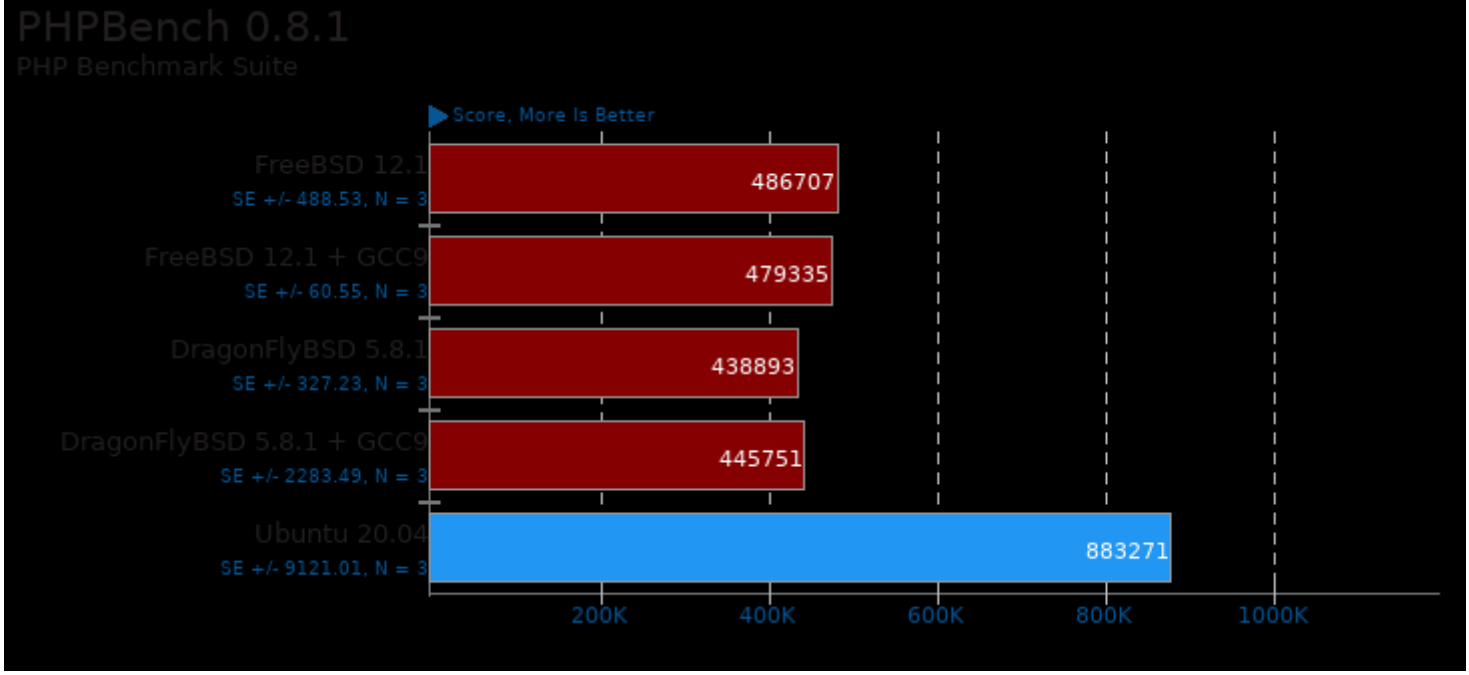

Timed PHP Compilation 7.4.2
Time To Compile
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.10, N = 3
35.10
FreeBSD 12.1 + GCC9
SE +/- 0.13, N = 3
57.66
DragonFlyBSD 5.8.1
SE +/- 0.20, N = 3
62.05
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.26, N = 3
62.54
Ubuntu 20.04
SE +/- 0.13, N = 3
48.28
14
28
42
56
70
C-Ray 1.1
Total Time - 4K, 16 Rays Per Pixel
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.02, N = 3
clang
89.69
FreeBSD 12.1 + GCC9
SE +/- 0.01, N = 3
gcc
71.47
DragonFlyBSD 5.8.1
SE +/- 0.02, N = 3
gcc
69.90
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.07, N = 3
gcc
70.00
Ubuntu 20.04
SE +/- 0.00, N = 3
gcc
52.12
20
40
60
80
100

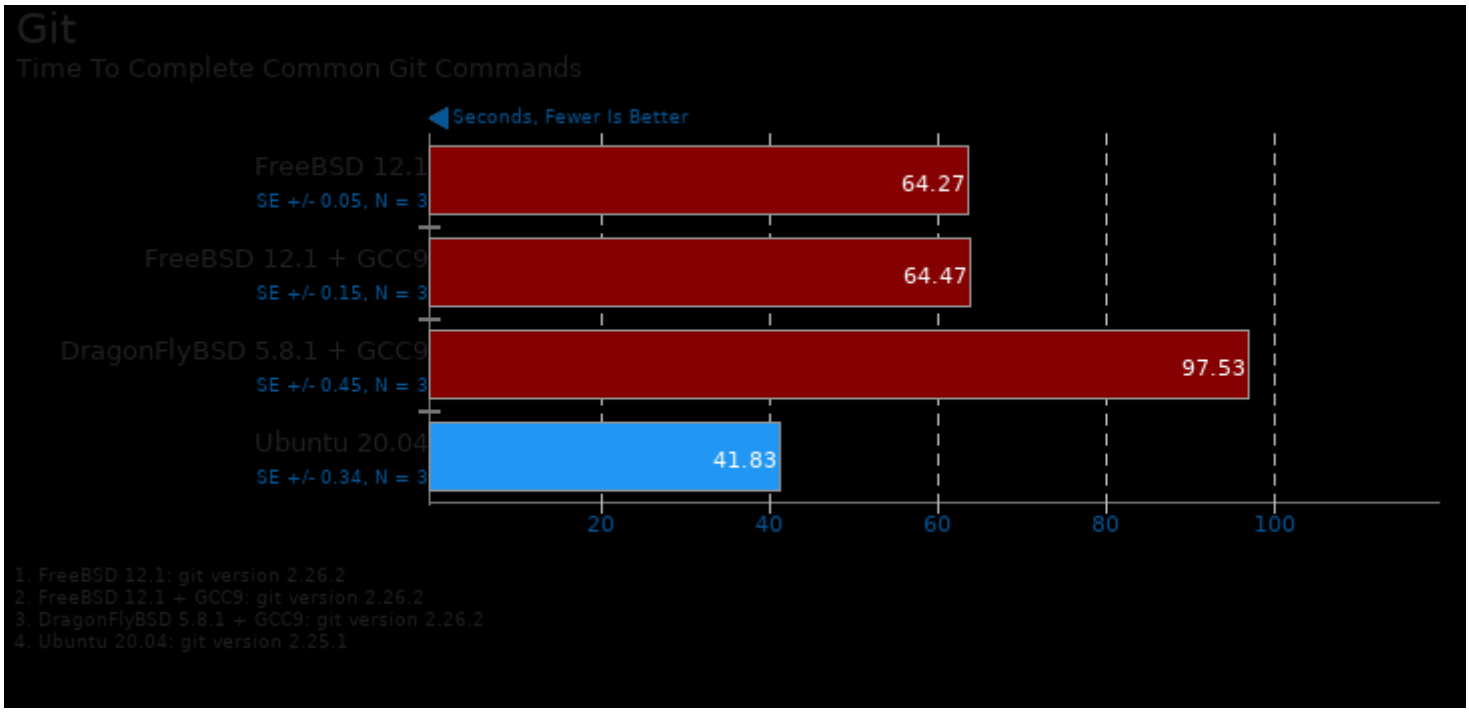

FLAC Audio Encoding 1.3.2
WAV To FLAC
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.004, N = 5
12.143
FreeBSD 12.1 + GCC9
SE +/- 0.005, N = 5
9.816
DragonFlyBSD 5.8.1
SE +/- 0.046, N = 5
9.810
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.047, N = 5
9.871
Ubuntu 20.04
SE +/- 0.042, N = 5
7.097
3
6
9
12
15
LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.106, N = 3
11.905
FreeBSD 12.1 + GCC9
SE +/- 0.058, N = 3
33.058
DragonFlyBSD 5.8.1
SE +/- 0.025, N = 3
32.467
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.007, N = 3
31.919
Ubuntu 20.04
SE +/- 0.009, N = 3
6.991
8
16
24
32
40


OpenSSL 1.1.1
RSA 4096-bit Performance
Signs Per Second, More Is Better
FreeBSD 12.1
SE +/- 0.59, N = 3
2758.0
FreeBSD 12.1 + GCC9
SE +/- 0.29, N = 3
2759.2
DragonFlyBSD 5.8.1
SE +/- 0.52, N = 3
2834.1
DragonFlyBSD 5.8.1 + GCC9
SE +/- 12.97, N = 3
2819.5
Ubuntu 20.04
SE +/- 1.34, N = 3
3756.6
800
1600
2400
3200
4000
libjpeg-turbo tjbench 2.0.2
Test: Decompression Throughput
Megapixels/sec, More Is Better
FreeBSD 12.1
SE +/- 0.03, N = 3
166.44
FreeBSD 12.1 + GCC9
SE +/- 0.12, N = 3
165.75
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.09, N = 3
170.28
Ubuntu 20.04
SE +/- 0.70, N = 3
236.26
50
100
150
200
250
PyBench 2018-02-16
Total For Average Test Times
Milliseconds, Fewer Is Better
FreeBSD 12.1
SE +/- 4.16, N = 3
1746
FreeBSD 12.1 + GCC9
SE +/- 2.89, N = 3
1744
DragonFlyBSD 5.8.1 + GCC9
SE +/- 2.33, N = 3
1616
Ubuntu 20.04
732
400
800
1200
1600
2000

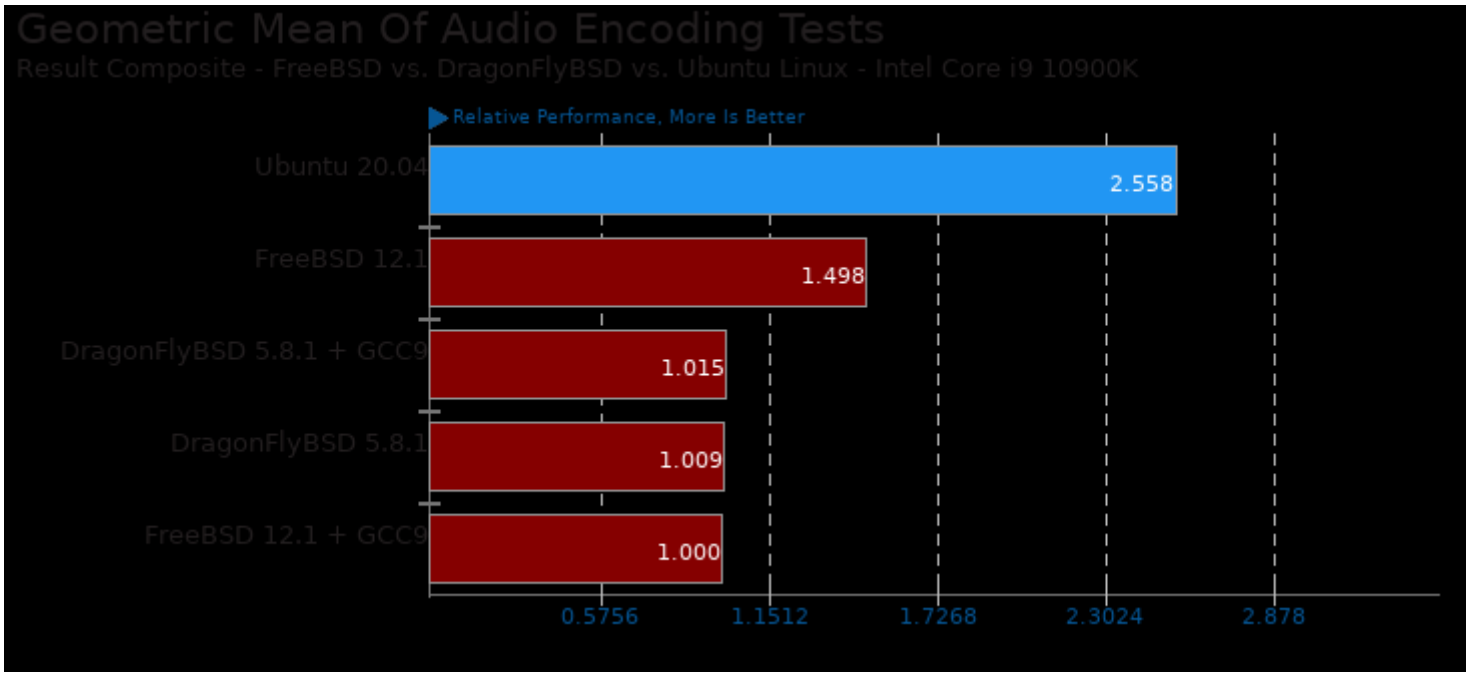

PyPerformance 1.0.0
Benchmark: float
Milliseconds, Fewer Is Better
FreeBSD 12.1
172.0
FreeBSD 12.1 + GCC9
172.0
DragonFlyBSD 5.8.1 + GCC9
170.0
Ubuntu 20.04
81.5
SE +/- 0.03, N = 3
40
80
120
160
200


PyPerformance 1.0.0
Benchmark: django_template
Milliseconds, Fewer Is Better
FreeBSD 12.1
107.0
FreeBSD 12.1 + GCC9
107.0
DragonFlyBSD 5.8.1 + GCC9
95.3
SE +/- 0.12, N = 3
Ubuntu 20.04
37.8
SE +/- 0.34, N = 3
20
40
60
80
100

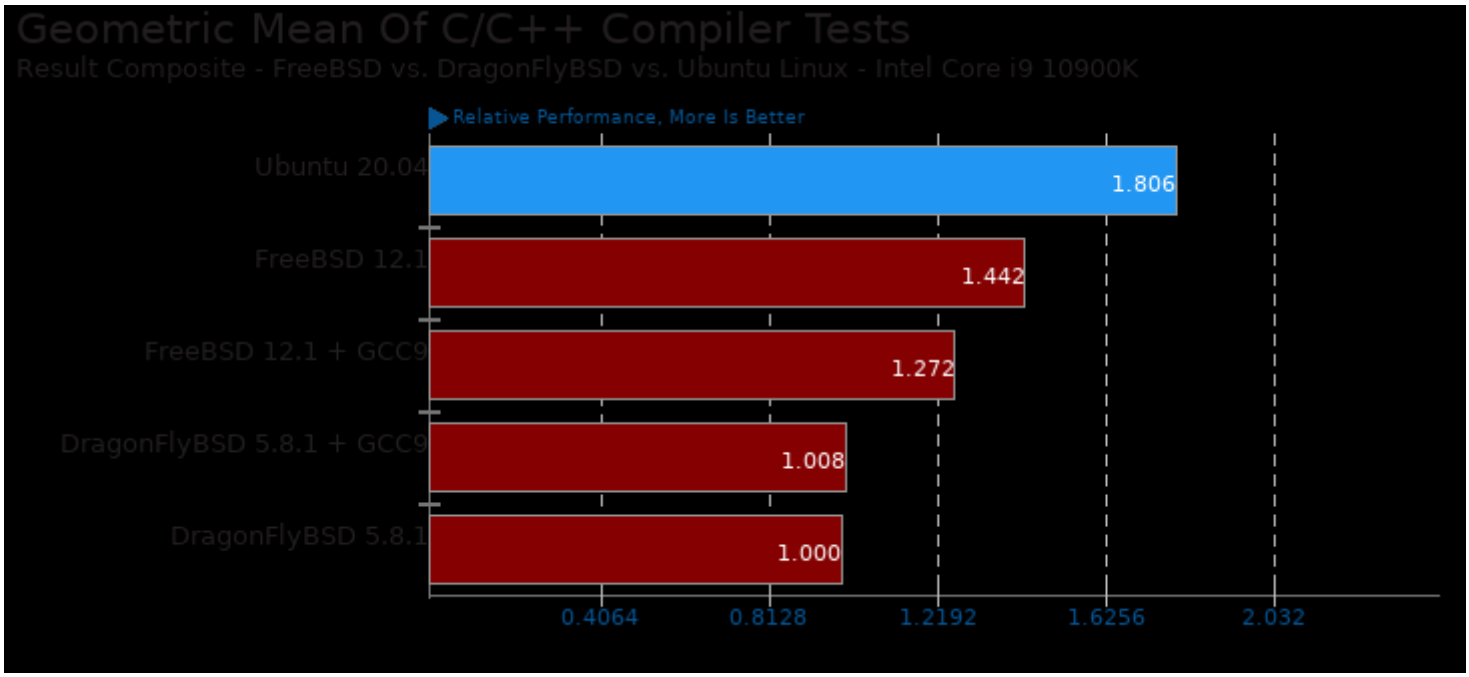

PHPBench 0.8.1
PHP Benchmark Suite
Score, More Is Better
FreeBSD 12.1
486707
SE +/- 488.53, N = 3
FreeBSD 12.1 + GCC9
479335
SE +/- 60.55, N = 3
DragonFlyBSD 5.8.1
438893
SE +/- 327.23, N = 3
DragonFlyBSD 5.8.1 + GCC9
445751
SE +/- 2283.49, N = 3
Ubuntu 20.04
883271
SE +/- 9121.01, N = 3
200K
400K
600K
800K
1000K


Git
Time To Complete Common Git Commands
Seconds, Fewer Is Better
FreeBSD 12.1
SE +/- 0.05, N = 3
64.27
FreeBSD 12.1 + GCC9
SE +/- 0.15, N = 3
64.47
DragonFlyBSD 5.8.1 + GCC9
SE +/- 0.45, N = 3
97.53
Ubuntu 20.04
SE +/- 0.34, N = 3
41.83
20
40
60
80
100
1. FreeBSD 12.1: git version 2.26.2
2. FreeBSD 12.1 + GCC9: git version 2.26.2
3. DragonFlyBSD 5.8.1 + GCC9: git version 2.26.2
4. Ubuntu 20.04: git version 2.25.1

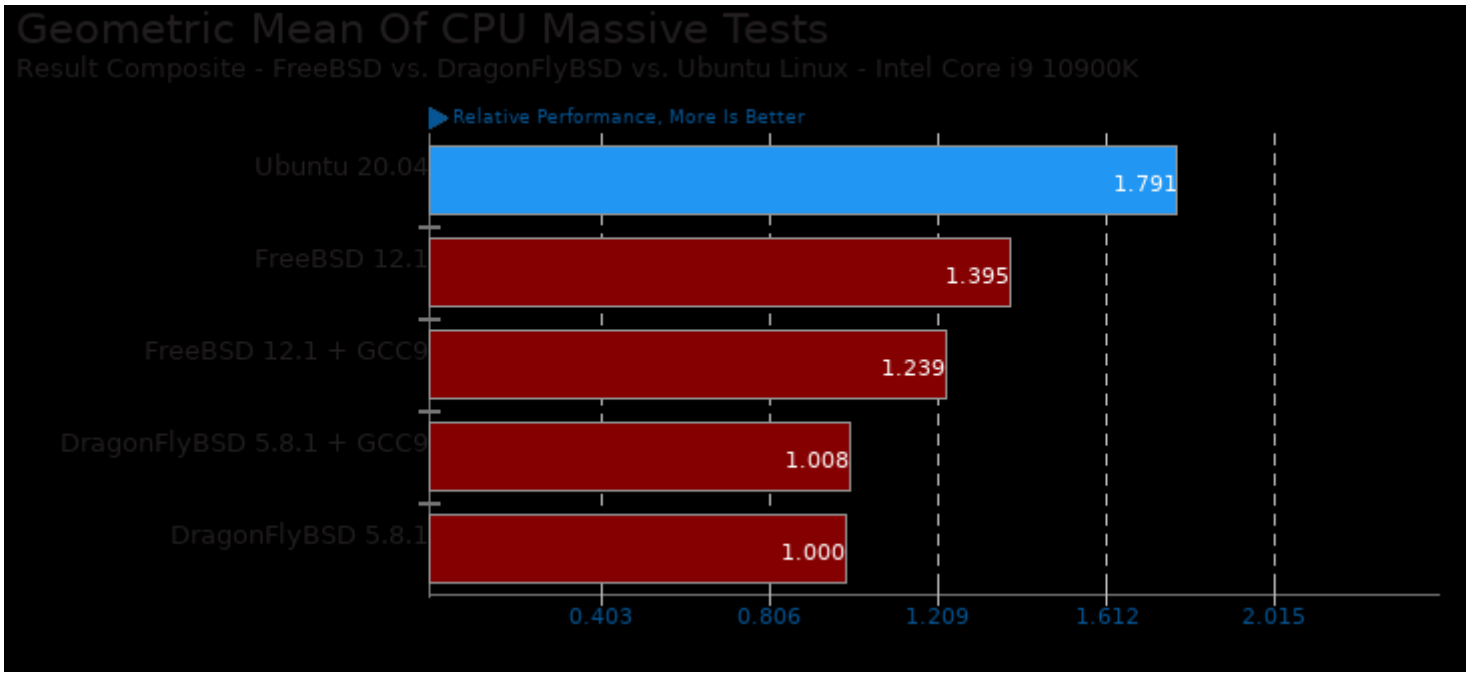
These geometric means are based upon test groupings / test suites for this result file.



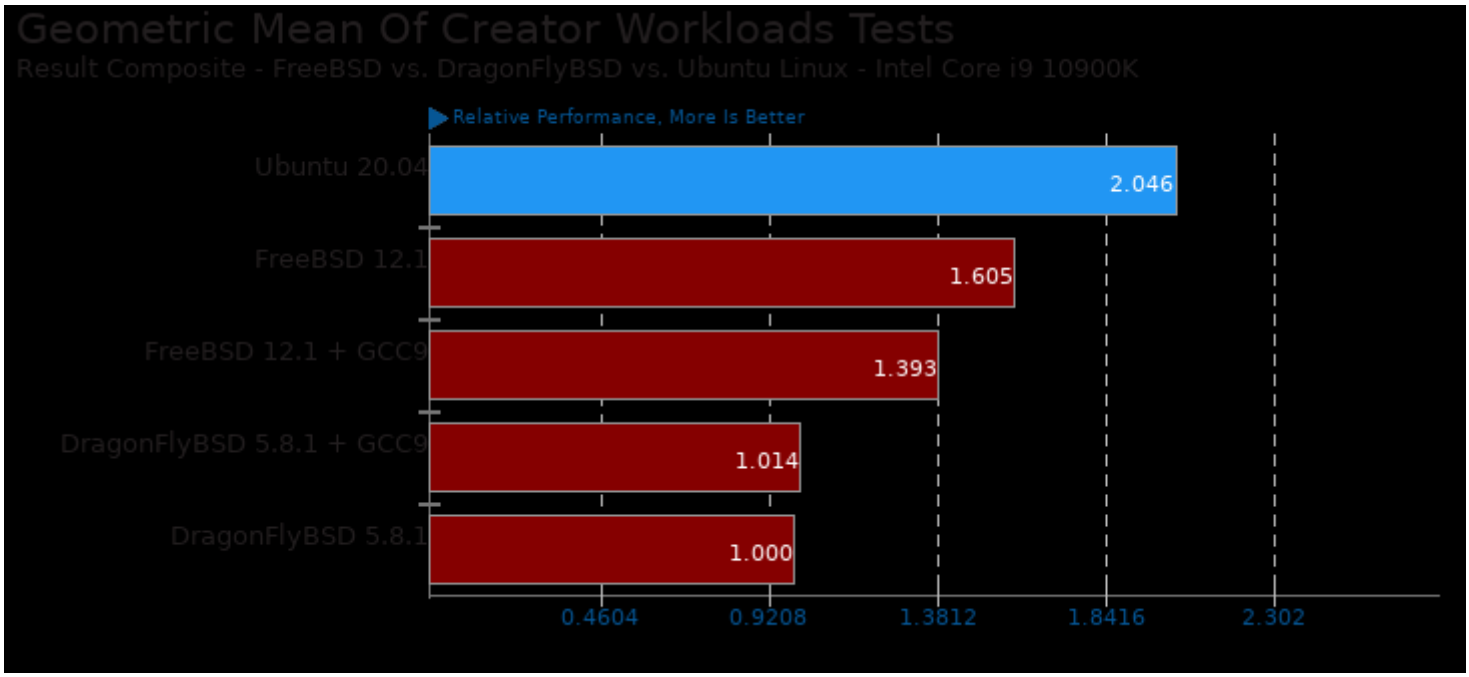

Geometric mean based upon tests: pts/encode-mp3 and pts/encode-flac



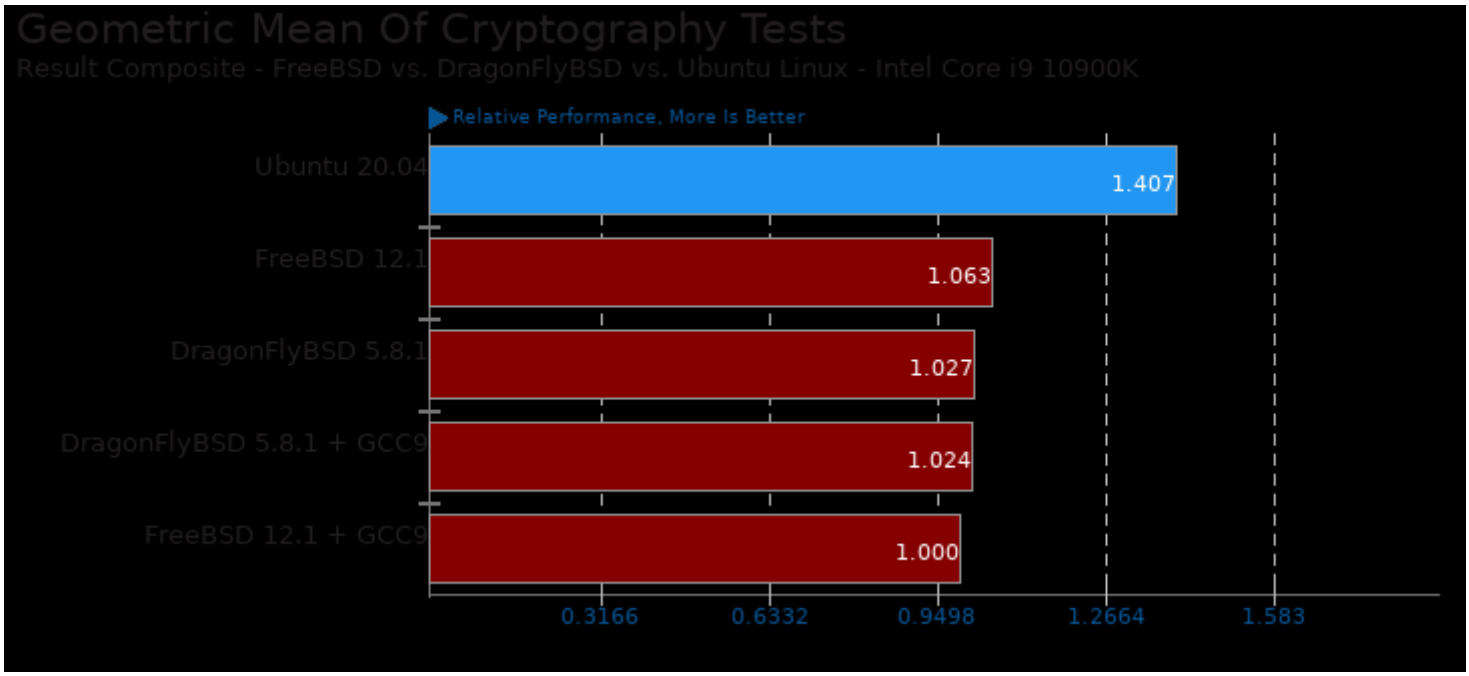

Geometric mean based upon tests: pts/graphics-magick, pts/himeno, pts/stockfish, pts/build-php, pts/build-llvm, pts/c-ray, pts/encode-mp3, pts/encode-flac, pts/x264, pts/x265 and pts/openssl



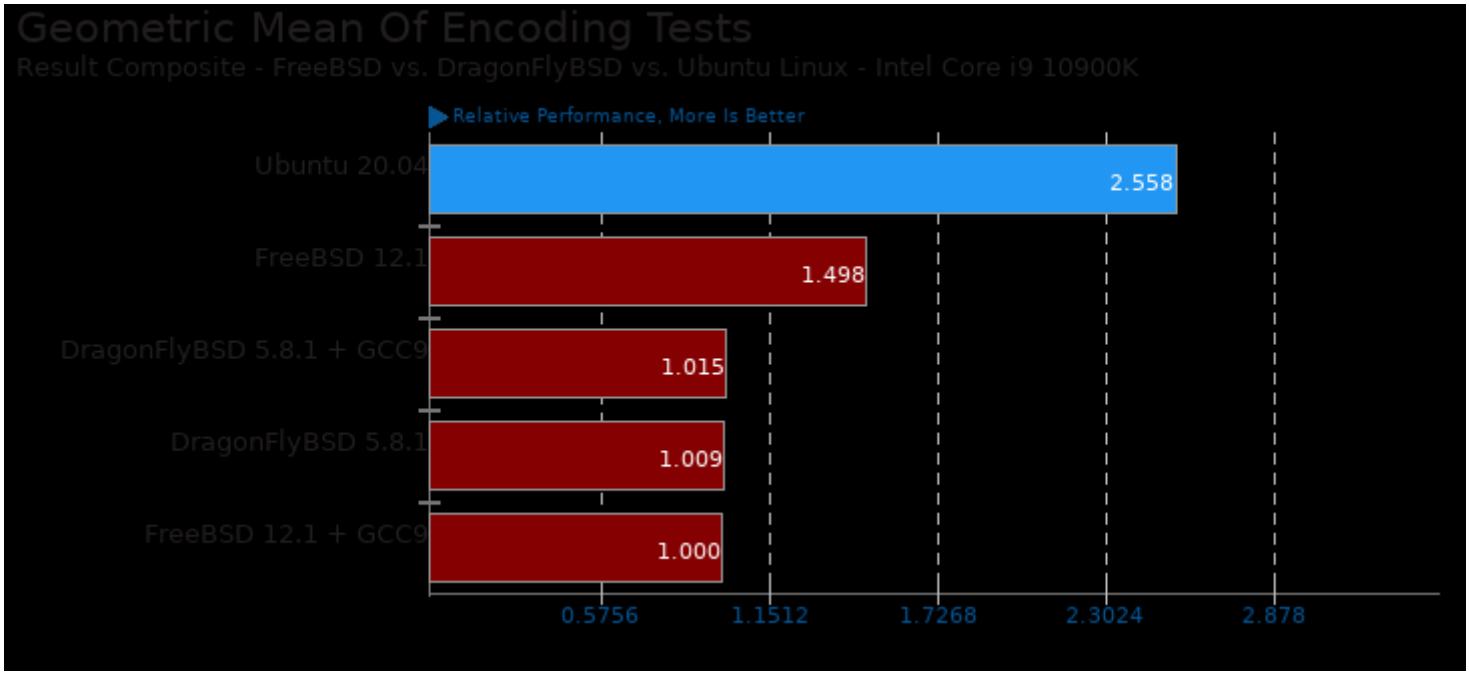

Geometric mean based upon tests: pts/blake2, pts/build-llvm, pts/build-php, pts/c-ray, pts/x264, pts/x265, pts/encode-flac, pts/encode-mp3, pts/graphics-magick, pts/himeno, pts/openssl, pts/phpbench, pts/stockfish and pts/tjbench



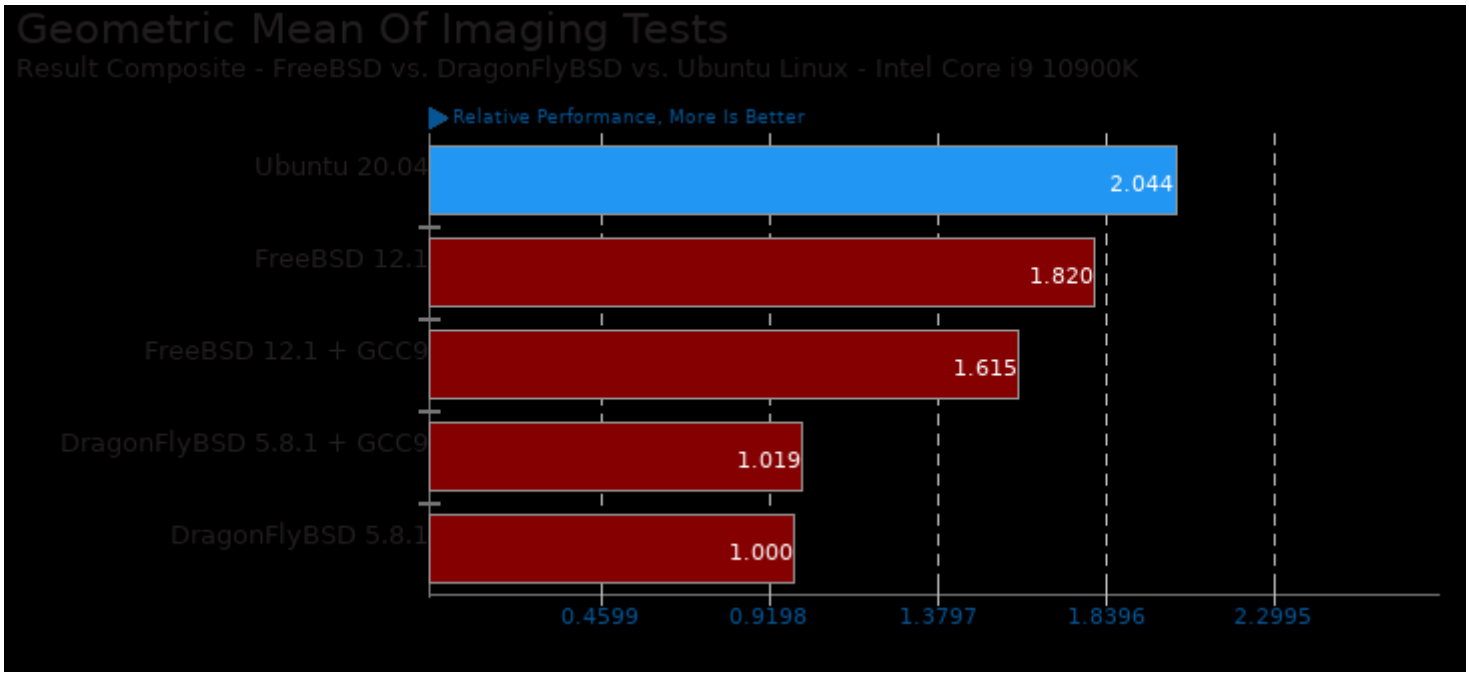

Geometric mean based upon tests: pts/c-ray, pts/x264, pts/x265, pts/avifenc, pts/encode-mp3, pts/encode-flac, pts/graphics-magick and pts/tjbench



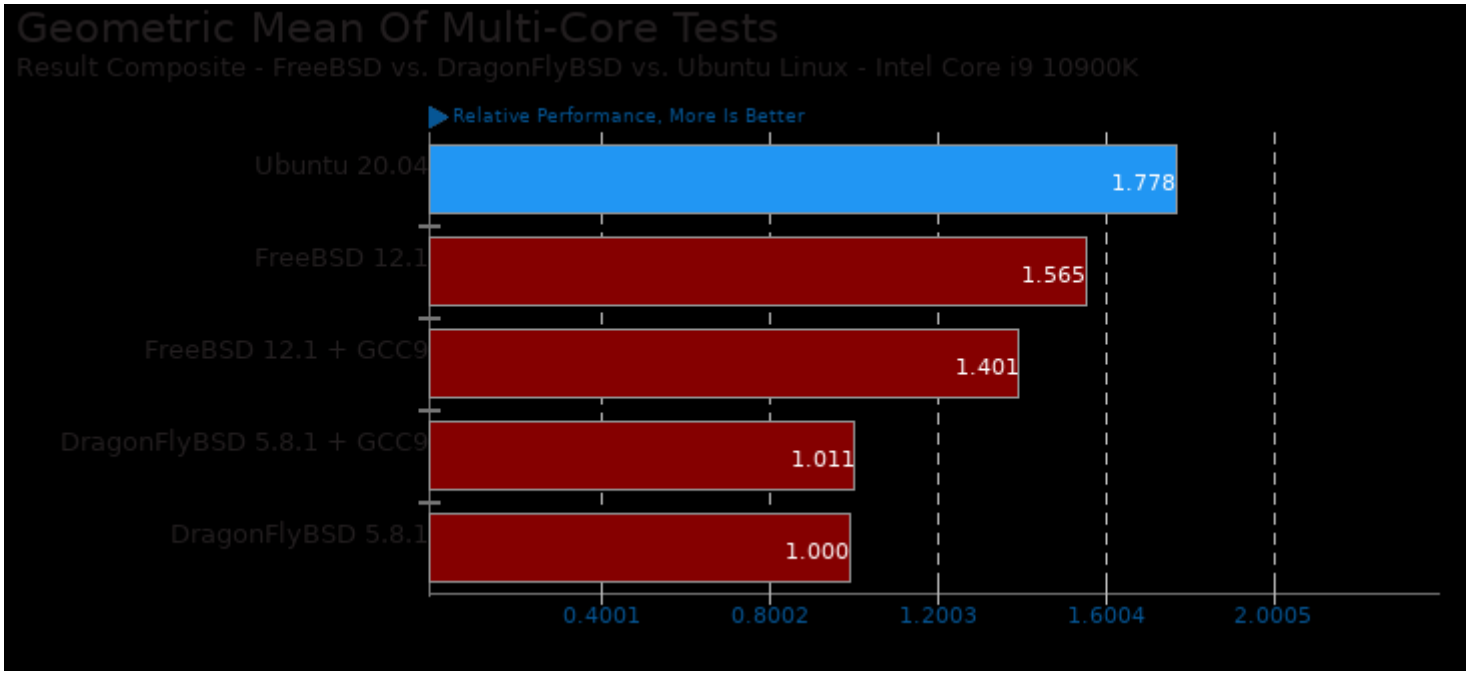

Geometric mean based upon tests: pts/openssl and pts/blake2



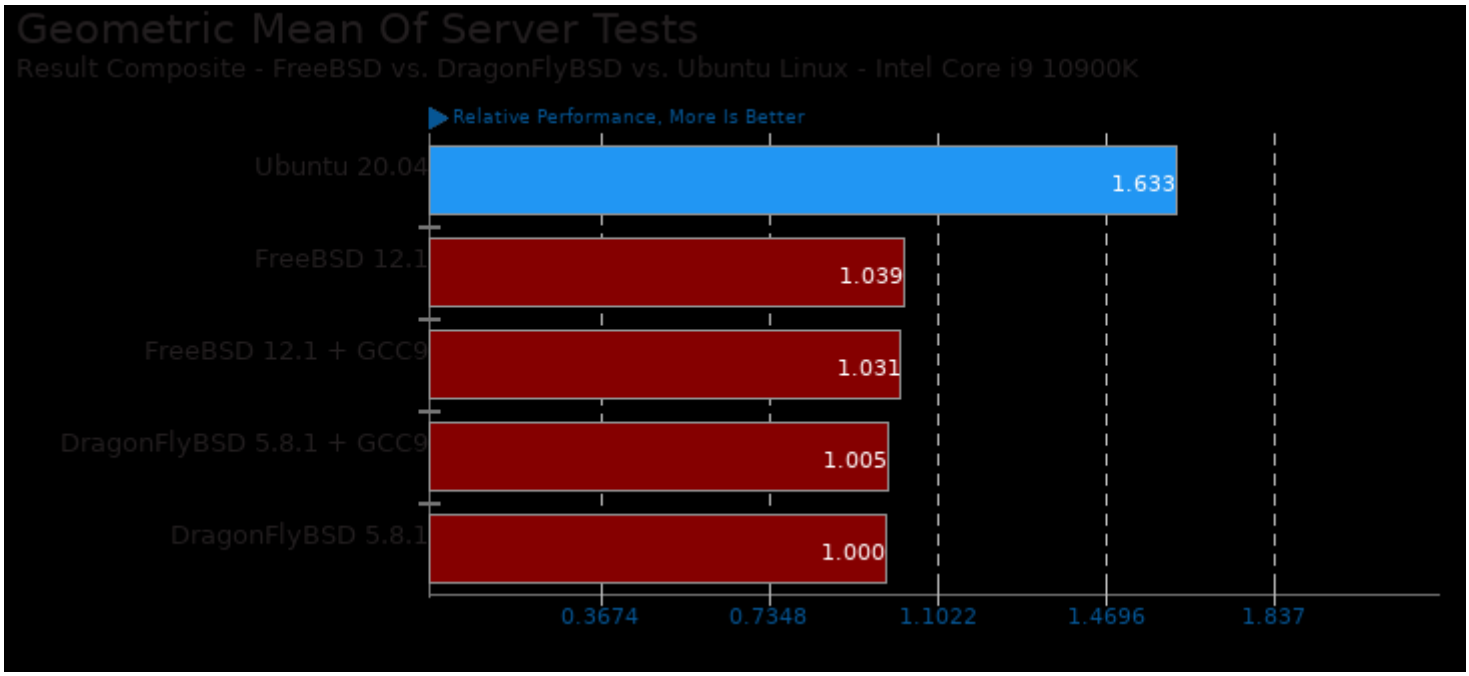

Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac, pts/x264, pts/x265 and pts/avifenc



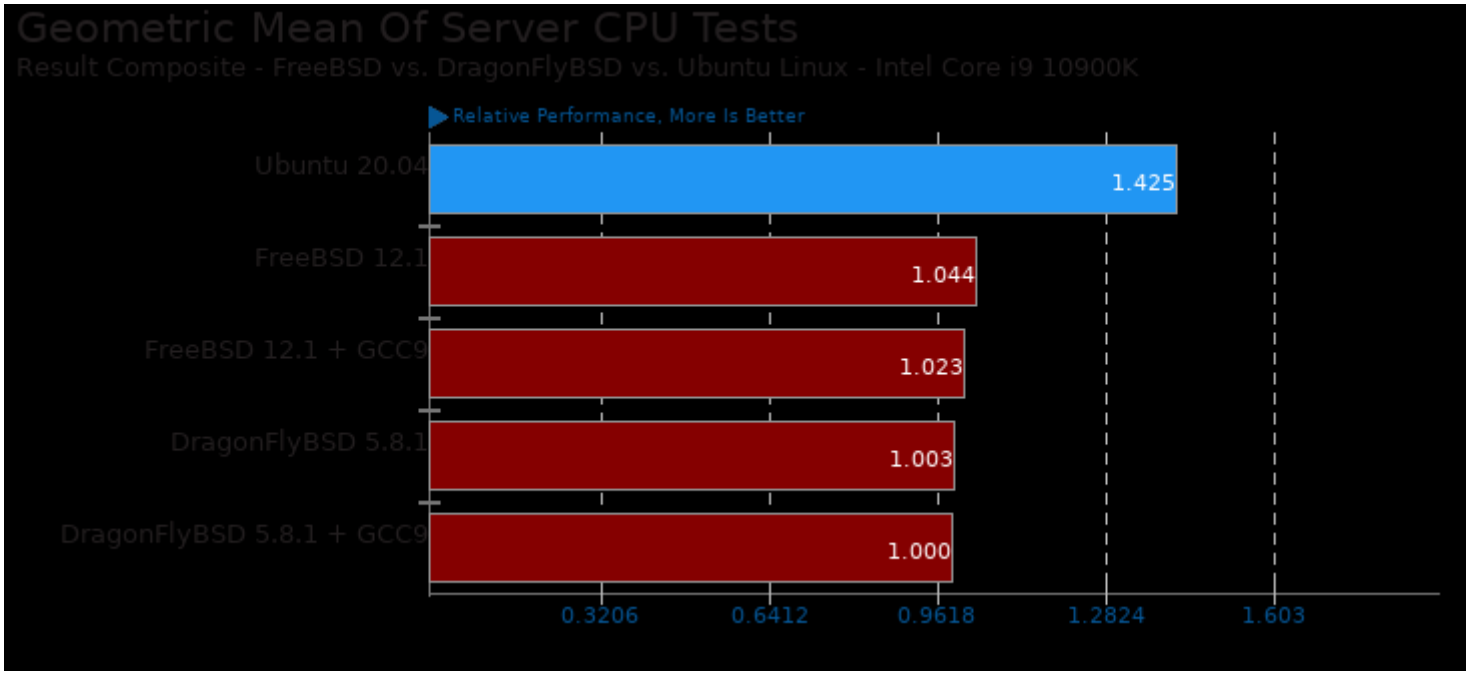

Geometric mean based upon tests: pts/graphics-magick, pts/tjbench and pts/avifenc



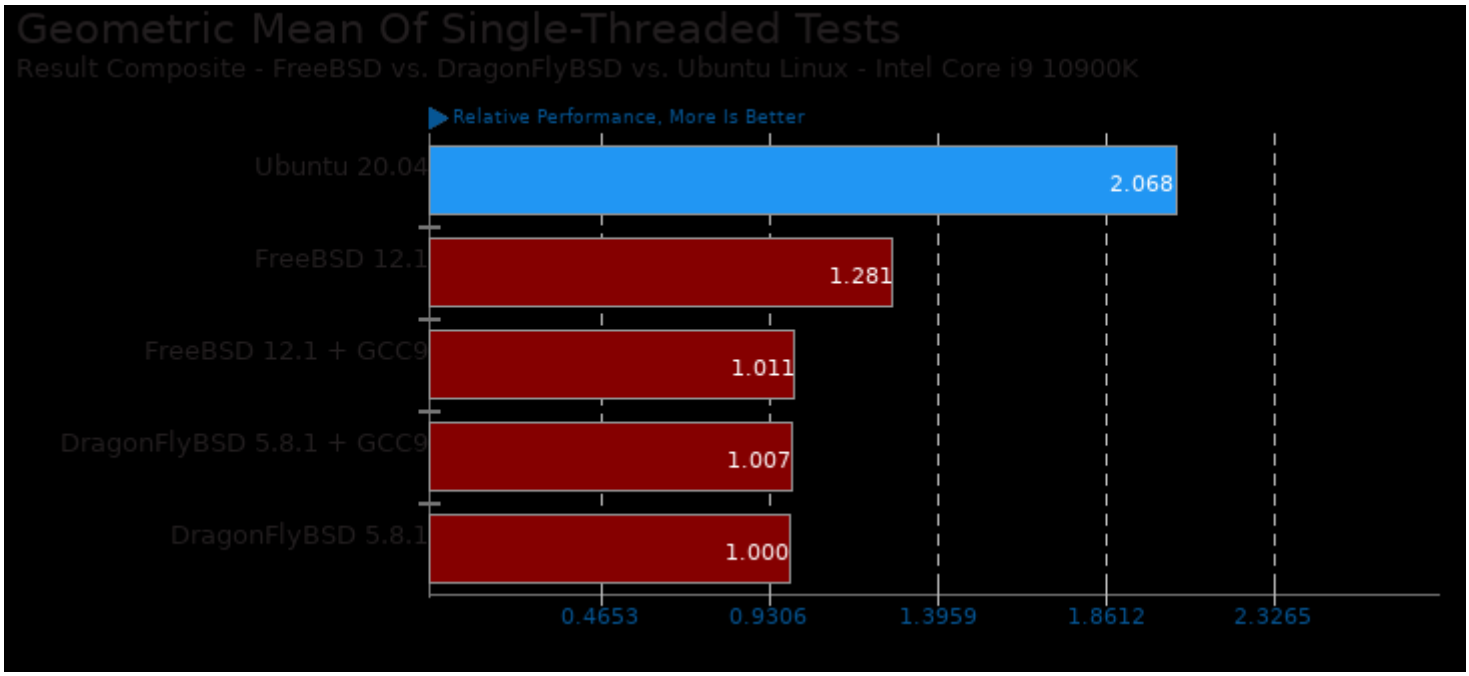

Geometric mean based upon tests: pts/c-ray, pts/stockfish, pts/x264, pts/x265, pts/avifenc, pts/graphics-magick, pts/build-php and pts/build-llvm




Geometric mean based upon tests: pts/phpbench and pts/openssl




Geometric mean based upon tests: pts/x264, pts/x265, pts/himeno, pts/stockfish, pts/build-php, pts/build-llvm, pts/c-ray, pts/openssl, pts/tjbench, pts/pybench and pts/phpbench




Geometric mean based upon tests: pts/blake2, pts/encode-flac, pts/encode-mp3, pts/tjbench, pts/pybench, pts/phpbench and pts/git

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:10.*