



[www.phoronix-test-suite.com](http://www.phoronix-test-suite.com)

## rocket-lake-windows

Intel Core i9-11900K testing with a ASUS ROG MAXIMUS XIII HERO (0703 BIOS) and Intel UHD 750 1GB on Microsoft Windows 10 Pro Build 19042 via the Phoronix Test Suite.

### Test Systems:

#### Windows 10

Processor: Intel Core i9-11900K @ 3.50GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Memory: 2 x 16384 MB 3200MHz Corsair CMK32GX4M2Z3600C18, Disk: 932GB WD\_BLACK SN850 1TB + 15GB Corsair Voyager 3.0 USB, Graphics: Microsoft Basic Display, Network: Bluetooth Device (Personal Area )

OS: Microsoft Windows 10 Pro Build 19042, Kernel: 10.0 (x86\_64), Display Driver: 10.0.19041.868, File-System: NTFS, Screen Resolution: 3840x2160

Java Notes: operable program or batch file.

Python Notes: Python 3.7.1

Security Notes: \_\_user pointer sanitization: Disabled + IBPB: Always + IBRS: Enabled + STIBP: Enabled

## Win 10

Processor: Intel Core i9-11900K @ 3.50GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Memory: 2 x 16384 MB 3200MHz Corsair CMK32GX4M2Z3600C18, Disk: 932GB WD\_BLACK SN850 1TB + 15GB Corsair Voyager 3.0 USB, Graphics: Microsoft Basic Display, Network: Bluetooth Device (Personal Area )

OS: Microsoft Windows 10 Pro Build 19042, Kernel: 10.0 (x86\_64), Display Driver: 10.0.19041.868, Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 3840x2160

Python Notes: Python 3.7.1

Security Notes: \_\_user pointer sanitization: Disabled + IBPB: Always + IBRS: Enabled + STIBP: Enabled

## W10

Processor: Intel Core i9-11900K @ 3.50GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Memory: 2 x 16384 MB 3200MHz Corsair CMK32GX4M2Z3600C18, Disk: 932GB WD\_BLACK SN850 1TB, Graphics: Intel UHD 750 1GB, Network: Bluetooth Device (Personal Area )

OS: Microsoft Windows 10 Pro Build 19042, Kernel: 10.0 (x86\_64), Display Driver: 27.20.100.9316, Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 3840x2160

Security Notes: \_\_user pointer sanitization: Disabled + IBPB: Always + IBRS: Enabled + STIBP: Enabled

	Windows 10	Win 10	W10
<b>WebP Image Encode - Default (Encode Time</b>	1.237		
<b>- sec)</b>			
Standard Deviation	0.4%		
<b>WebP Image Encode - Quality 100 (Encode</b>	1.914		
<b>Time - sec)</b>			
Standard Deviation	0.3%		
<b>WebP Image Encode - Q.1.L (Encode Time -</b>	13.367		
<b>sec)</b>			
Standard Deviation	0%		
<b>WebP Image Encode - Q.1.H.C (Encode Time</b>	5.427		
<b>- sec)</b>			
Standard Deviation	0.2%		
<b>WebP Image Encode - Q.1.L.H.C (Encode</b>	29.299		
<b>Time - sec)</b>			
Standard Deviation	1.7%		
<b>DaCapo Benchmark - H2 (msec)</b>	2227		
<b>Standard Deviation</b>	4.9%		
<b>DaCapo Benchmark - Jython (msec)</b>	3217		
<b>Standard Deviation</b>	0.5%		
<b>DaCapo Benchmark - Tradesoap (msec)</b>	5210		
<b>Standard Deviation</b>	0.8%		
<b>DaCapo Benchmark - Tradebeans (msec)</b>	2181		
<b>Standard Deviation</b>	2.5%		

**LZ4 Compression - 1 - Compression Speed** 10724  
(MB/s)

Standard Deviation 0.1%

**LZ4 Compression - 1 - D.S (MB/s)** 11394

Standard Deviation 0.1%

**LZ4 Compression - 3 - Compression Speed** 74.88  
(MB/s)

Standard Deviation 0.1%

**LZ4 Compression - 3 - D.S (MB/s)** 11144

Standard Deviation 0.1%

**LZ4 Compression - 9 - Compression Speed** 73.40  
(MB/s)

Standard Deviation 0.1%

**LZ4 Compression - 9 - D.S (MB/s)** 11171

Standard Deviation 0.1%

**Zstd Compression - 3 - Compression Speed** 2645  
(MB/s)

Standard Deviation 0.4%

**Zstd Compression - 8 - Compression Speed** 313.1  
(MB/s)

Standard Deviation 0.5%

**Zstd Compression - 8 - D.S (MB/s)** 4423

Standard Deviation 0.4%

**Zstd Compression - 19 - Compression Speed** 34.9  
(MB/s)

Standard Deviation 0%

**Zstd Compression - 19 - D.S (MB/s)** 4040

Standard Deviation 0.1%

**Zstd Compression - 3, Long Mode -** 1802  
**Compression Speed (MB/s)**

Standard Deviation 0.2%

**Zstd Compression - 8, Long Mode -** 346.6  
**Compression Speed (MB/s)**

Standard Deviation 0.5%

**Zstd Compression - 8, Long Mode - D.S** 4692  
**Compression Speed (MB/s)**

Standard Deviation 0.1%

**Zstd Compression - 19, Long Mode -** 32.8  
**Compression Speed (MB/s)**

Standard Deviation 0.3%

**Zstd Compression - 19, Long Mode - D.S** 4145  
(MB/s)

Standard Deviation 0.1%

**Crafty - Elapsed Time (Nodes/s)** 11303083

Standard Deviation 0.3%

**John The Ripper - Blowfish (Real C/S)** 21778  
Standard Deviation 0.3%

**John The Ripper - MD5 (Real C/S)** 1113000  
Standard Deviation 0.4%

**dav1d - Chimera 1080p (FPS)** 685.22

Standard Deviation 0.1%

**dav1d - Summer Nature 4K (FPS)** 197.66  
Standard Deviation 0%

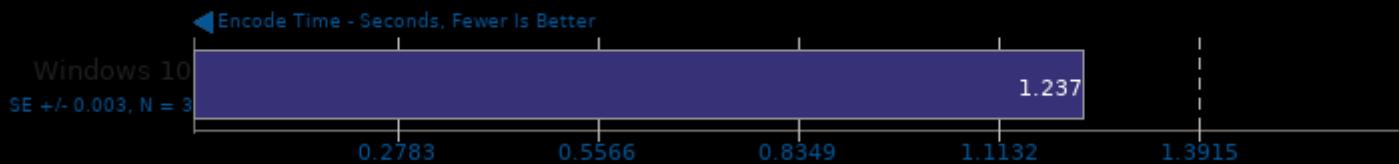
<b>dav1d - S.N.1 (FPS)</b>	765.79
Standard Deviation	0.2%
<b>dav1d - C.1.1.b (FPS)</b>	138.04
Standard Deviation	0.1%
<b>SVT-AV1 - Enc Mode 0 - 1080p (FPS)</b>	0.172
Standard Deviation	0%
<b>SVT-AV1 - Enc Mode 4 - 1080p (FPS)</b>	4.409
Standard Deviation	0.5%
<b>SVT-AV1 - Enc Mode 8 - 1080p (FPS)</b>	41.449
Standard Deviation	0.2%
<b>x264 - H.2.V.E (FPS)</b>	114.29
Standard Deviation	0.5%
<b>Intel Open Image Denoise - Memorial (Images / Sec)</b>	13.28
Standard Deviation	0.8%
<b>LuxCoreRender - DLSC (M samples/sec)</b>	1.94
Standard Deviation	0.6%
<b>LuxCoreRender - R.C.a.P (M samples/sec)</b>	1.89
Standard Deviation	0.3%
<b>7-Zip Compression - C.S.T (MIPS)</b>	61074
Standard Deviation	0.3%
<b>Stockfish - Total Time (Nodes/s)</b>	27774446
Standard Deviation	2.4%
<b>asmFish - 1.H.M.2.D (Nodes/s)</b>	31868845
Standard Deviation	0.7%
<b>libavif avifenc - 0 (sec)</b>	62.906
Standard Deviation	0.5%
<b>libavif avifenc - 2 (sec)</b>	31.946
Standard Deviation	0.7%
<b>libavif avifenc - 6 (sec)</b>	11.242
Standard Deviation	0.6%
<b>libavif avifenc - 10 (sec)</b>	2.913
Standard Deviation	0.9%
<b>libavif avifenc - 6, Lossless (sec)</b>	51.593
Standard Deviation	0.7%
<b>libavif avifenc - 10, Lossless (sec)</b>	5.053
Standard Deviation	0.1%
<b>Primesieve - 1.P.N.G (sec)</b>	17.217
Standard Deviation	0.5%
<b>FLAC Audio Encoding - WAV To FLAC (sec)</b>	6.425
Standard Deviation	0.3%
<b>LAME MP3 Encoding - WAV To MP3 (sec)</b>	6.944
Standard Deviation	0.1%
<b>Opus Codec Encoding - WAV To Opus Encode (sec)</b>	7.218
Standard Deviation	0.4%
<b>Minion - Graceful (sec)</b>	37.032
Standard Deviation	0.2%
<b>Minion - Solitaire (sec)</b>	37.650
Standard Deviation	0.5%
<b>Minion - Quasigroup (sec)</b>	89.226
Standard Deviation	0.3%
<b>libjpeg-turbo tjbenc - D.T (Megapixels/sec)</b>	259.265683

	Standard Deviation	0.3%
<b>Basis Universal - ETC1S (sec)</b>		18.753
	Standard Deviation	0.1%
<b>Basis Universal - UASTC Level 0 (sec)</b>		6.142
	Standard Deviation	0.1%
<b>Basis Universal - UASTC Level 2 (sec)</b>		27.065
	Standard Deviation	0.1%
<b>Basis Universal - UASTC Level 3 (sec)</b>		52.030
	Standard Deviation	0.3%
<b>Blender - BMW27 - CPU-Only (sec)</b>		155.59
	Standard Deviation	0.3%
<b>Blender - Classroom - CPU-Only (sec)</b>		461.31
	Standard Deviation	0.1%
<b>Blender - Fishy Cat - CPU-Only (sec)</b>		210.85
	Standard Deviation	0.1%
<b>Blender - Barbershop - CPU-Only (sec)</b>		629.15
	Standard Deviation	0%
<b>Blender - Pabellon Barcelona - CPU-Only</b>		493.75
	Standard Deviation	0.2%
<b>PyBench - T.F.A.T.T (Milliseconds)</b>		891
	Standard Deviation	0.8%
<b>NeatBench - CPU (FPS)</b>		18.2
	Standard Deviation	1%
<b>Appleseed - Emily (sec)</b>		323.715
<b>Appleseed - Disney Material (sec)</b>		183.624
<b>Appleseed - Material Tester (sec)</b>		174.926
<b>Maxon Cinebench - Multi-Core (Score)</b>		15468
	Standard Deviation	0.1%
<b>Maxon Cinebench - Single-Core (Score)</b>		1675
<b>Selenium - ARES-6 - Firefox (ms)</b>		30.16
	Standard Deviation	0.2%
<b>Selenium - Kraken - Firefox (ms)</b>		696.2
	Standard Deviation	0.5%
<b>Selenium - Octane - Firefox (Geometric</b>		33244
	Standard Deviation	1.1%
<b>Selenium - StyleBench - Firefox (Runs /</b>		87.1
	Standard Deviation	0.9%
<b>Selenium - Jetstream 2 - Firefox (Score)</b>		128.052
	Standard Deviation	1.2%
<b>Selenium - Speedometer - Firefox (Runs/min)</b>		153.5
	Standard Deviation	0.3%
<b>Selenium - ARES-6 - Google Chrome (ms)</b>		13.36
	Standard Deviation	0.4%
<b>Selenium - Kraken - Google Chrome (ms)</b>		577.1
	Standard Deviation	0.5%
<b>Selenium - Octane - Google Chrome</b>	(Geometric Mean)	76758
	Standard Deviation	0.3%
<b>Selenium - PSPDFKit WASM - Firefox (Score)</b>		2485
	Standard Deviation	0.2%

<b>Selenium - StyleBench - Google Chrome</b>	50.25
(Runs / Minute)	
Standard Deviation	0.4%
<b>Selenium - Jetstream 2 - Google Chrome</b>	202.122
(Score)	
Standard Deviation	0.1%
<b>Selenium - Speedometer - Google Chrome</b>	186.8
(Runs/min)	
Standard Deviation	0.4%
<b>Selenium - PSPDFKit WASM - Google Chrome (Score)</b>	2643
Standard Deviation	0.2%
<b>Selenium - W.i - Firefox (ms)</b>	20.0
Standard Deviation	0.3%
<b>Selenium - W.c - Firefox (ms)</b>	293.2
Standard Deviation	0.1%
<b>Selenium - W.i - Google Chrome (ms)</b>	23.370
Standard Deviation	1%
<b>Selenium - W.c - Google Chrome (ms)</b>	251.2692
Standard Deviation	0.6%
<b>WavPack Audio Encoding - WAV To WavPack (sec)</b>	11.458
Standard Deviation	0.2%
<b>Chaos Group V-RAY - CPU (vsamples)</b>	11678
Standard Deviation	0.3%
<b>IndigoBench - CPU - Bedroom (M samples/s)</b>	2.083
Standard Deviation	0.3%
<b>IndigoBench - CPU - Supercar (M samples/s)</b>	4.911
Standard Deviation	0.3%

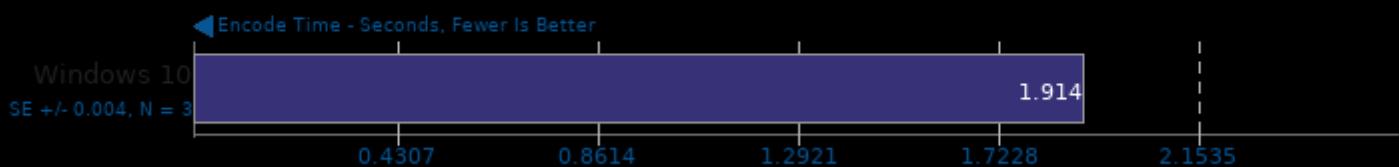
## WebP Image Encode 1.1

Encode Settings: Default



## WebP Image Encode 1.1

Encode Settings: Quality 100



## WebP Image Encode 1.1

Encode Settings: Quality 100, Lossless



## WebP Image Encode 1.1

Encode Settings: Quality 100, Highest Compression



## WebP Image Encode 1.1

Encode Settings: Quality 100, Lossless, Highest Compression



## DaCapo Benchmark 9.12-MR1

Java Test: H2



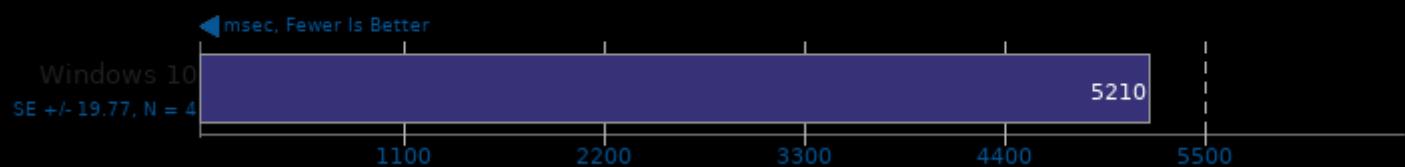
## DaCapo Benchmark 9.12-MR1

Java Test: Jython



## DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap



## DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



## LZ4 Compression 1.9.3

Compression Level: 1 - Compression Speed



## LZ4 Compression 1.9.3

Compression Level: 1 - Decompression Speed



## LZ4 Compression 1.9.3

Compression Level: 3 - Compression Speed



## LZ4 Compression 1.9.3

Compression Level: 3 - Decompression Speed



## LZ4 Compression 1.9.3

Compression Level: 9 - Compression Speed



## LZ4 Compression 1.9.3

Compression Level: 9 - Decompression Speed



## Zstd Compression 1.4.9

Compression Level: 3 - Compression Speed



## Zstd Compression 1.4.9

Compression Level: 8 - Compression Speed



## Zstd Compression 1.4.9

Compression Level: 8 - Decompression Speed



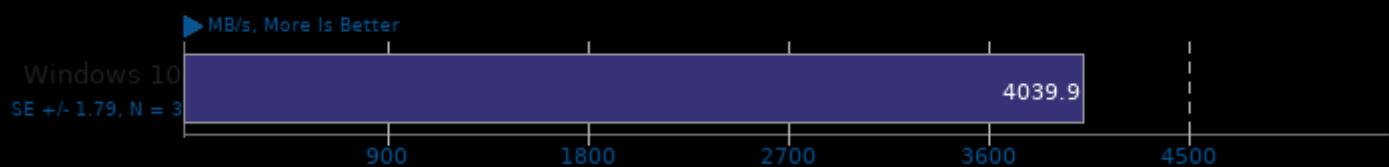
## Zstd Compression 1.4.9

Compression Level: 19 - Compression Speed



## Zstd Compression 1.4.9

Compression Level: 19 - Decompression Speed



## Zstd Compression 1.4.9

Compression Level: 3, Long Mode - Compression Speed



## Zstd Compression 1.4.9

Compression Level: 8, Long Mode - Compression Speed



## Zstd Compression 1.4.9

Compression Level: 8, Long Mode - Decompression Speed



## Zstd Compression 1.4.9

Compression Level: 19, Long Mode - Compression Speed



## Zstd Compression 1.4.9

Compression Level: 19, Long Mode - Decompression Speed



## Crafty 25.2

Elapsed Time



## John The Ripper 1.9.0-jumbo-1

Test: Blowfish



## John The Ripper 1.9.0-jumbo-1

Test: MD5



## dav1d 0.8.2

Video Input: Chimera 1080p



## dav1d 0.8.2

Video Input: Summer Nature 4K



**dav1d 0.8.2**

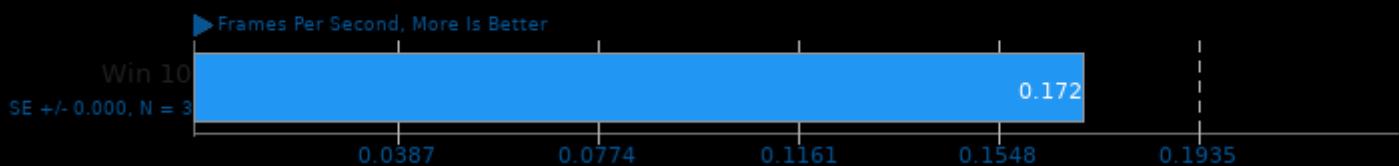
Video Input: Summer Nature 1080p

**dav1d 0.8.2**

Video Input: Chimera 1080p 10-bit

**SVT-AV1 0.8**

Encoder Mode: Enc Mode 0 - Input: 1080p

**SVT-AV1 0.8**

Encoder Mode: Enc Mode 4 - Input: 1080p

**SVT-AV1 0.8**

Encoder Mode: Enc Mode 8 - Input: 1080p

**x264 2019-12-17**

H.264 Video Encoding



## Intel Open Image Denoise 1.2.0

Scene: Memorial



## LuxCoreRender 2.3

Scene: DLSC



## LuxCoreRender 2.3

Scene: Rainbow Colors and Prism



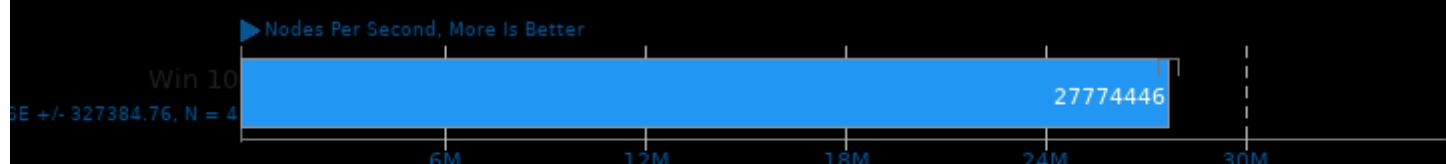
## 7-Zip Compression 16.02

Compress Speed Test



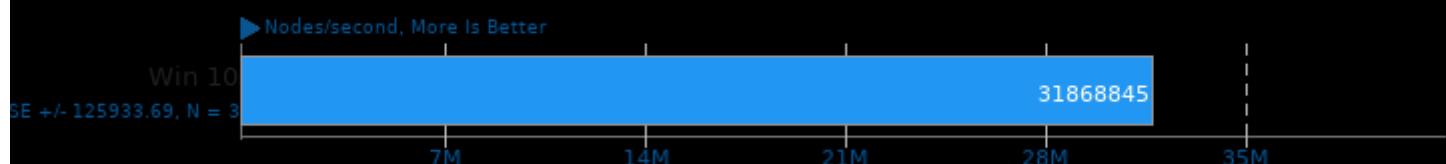
## Stockfish 13

Total Time



## asmFish 2018-07-23

1024 Hash Memory, 26 Depth



**libavif avifenc 0.9.0**

Encoder Speed: 0

**libavif avifenc 0.9.0**

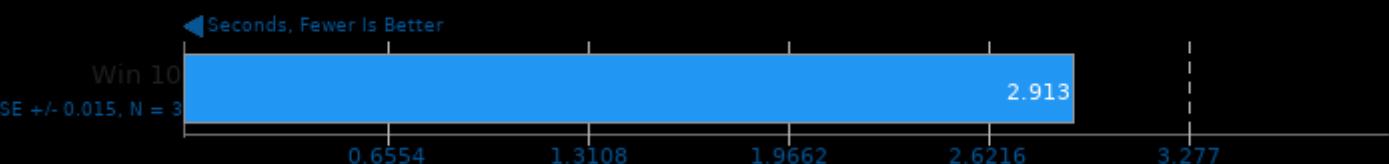
Encoder Speed: 2

**libavif avifenc 0.9.0**

Encoder Speed: 6

**libavif avifenc 0.9.0**

Encoder Speed: 10

**libavif avifenc 0.9.0**

Encoder Speed: 6, Lossless

**libavif avifenc 0.9.0**

Encoder Speed: 10, Lossless



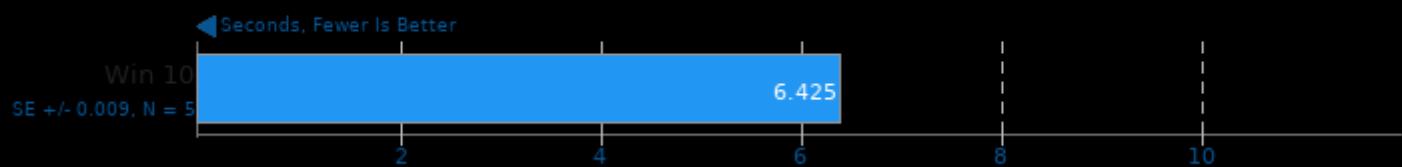
## Primesieve 7.4

1e12 Prime Number Generation



## FLAC Audio Encoding 1.3.2

WAV To FLAC



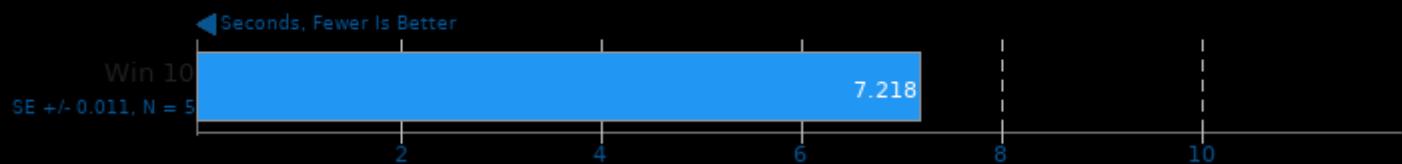
## LAME MP3 Encoding 3.100

WAV To MP3



## Opus Codec Encoding 1.3.1

WAV To Opus Encode



## Minion 1.8

Benchmark: Graceful



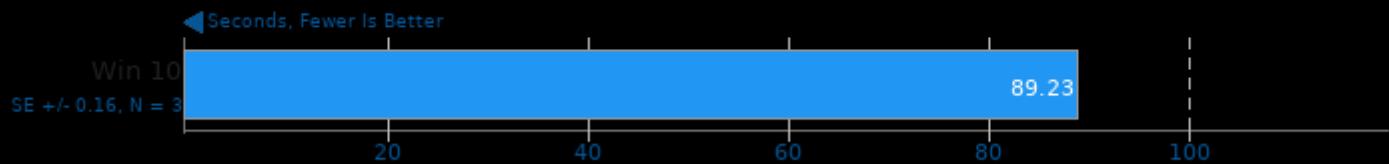
## Minion 1.8

Benchmark: Solitaire



## Minion 1.8

Benchmark: Quasigroup



## libjpeg-turbo tjbench 2.0.2

Test: Decompression Throughput



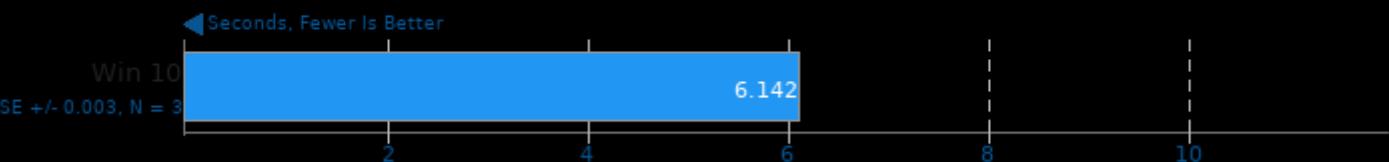
## Basis Universal 1.13

Settings: ETC1S



## Basis Universal 1.13

Settings: UASTC Level 0



## Basis Universal 1.13

Settings: UASTC Level 2



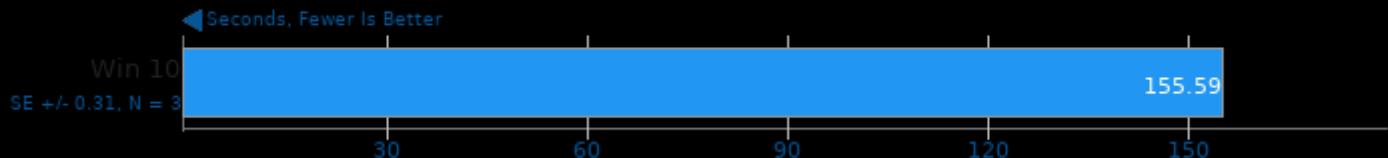
## Basis Universal 1.13

Settings: UASTC Level 3



## Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



## Blender 2.92

Blend File: Classroom - Compute: CPU-Only



## Blender 2.92

Blend File: Fishy Cat - Compute: CPU-Only



## Blender 2.92

Blend File: Barbershop - Compute: CPU-Only



## Blender 2.92

Blend File: Pabellon Barcelona - Compute: CPU-Only



## PyBench 2018-02-16

Total For Average Test Times



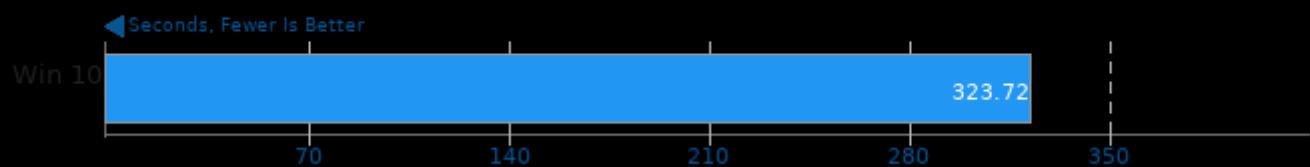
## NeatBench 5

Acceleration: CPU



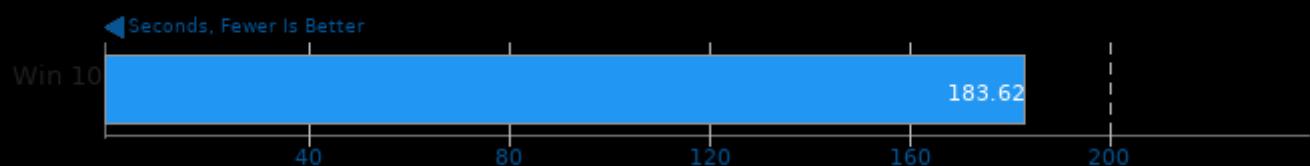
## Appleseed 2.0 Beta

Scene: Emily



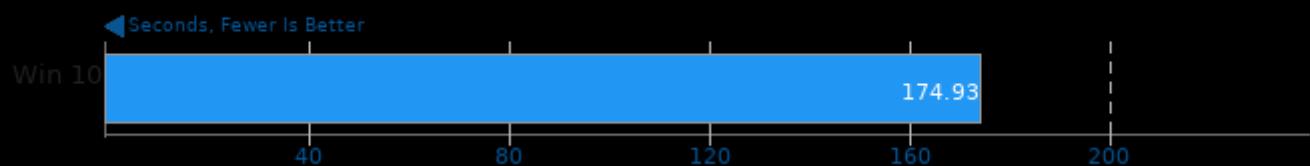
## Appleseed 2.0 Beta

Scene: Disney Material



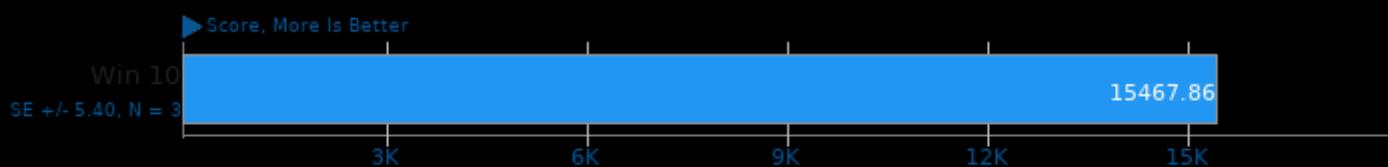
## Appleseed 2.0 Beta

Scene: Material Tester



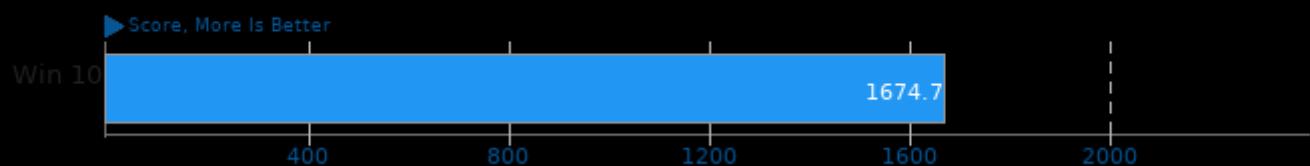
## Maxon Cinebench 23

Test: Multi-Core



## Maxon Cinebench 23

Test: Single-Core



## Selenium

Benchmark: ARES-6 - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: Kraken - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: Octane - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: StyleBench - Browser: Firefox



1. firefox 87.0

## Selenium

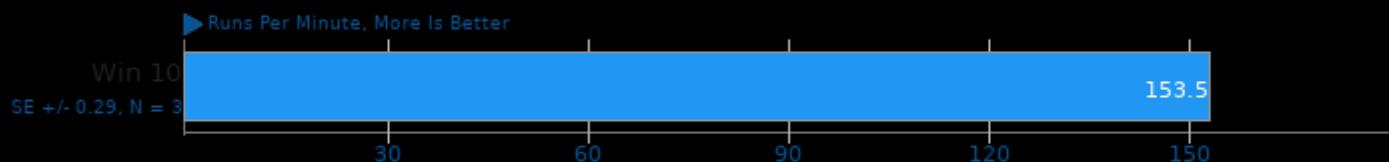
Benchmark: Jetstream 2 - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: Speedometer - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: ARES-6 - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

Benchmark: Kraken - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

Benchmark: Octane - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

Benchmark: PSPDFKit WASM - Browser: Firefox



1. firefox 87.0

## Selenium

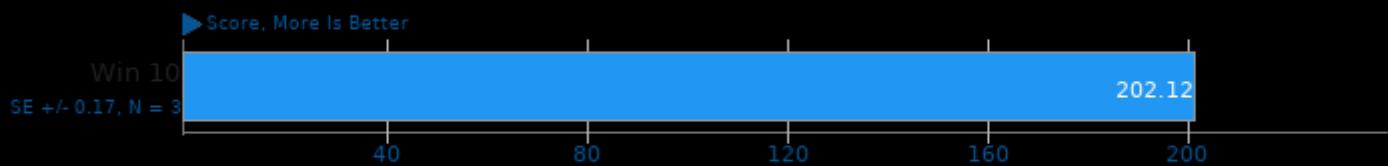
Benchmark: StyleBench - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

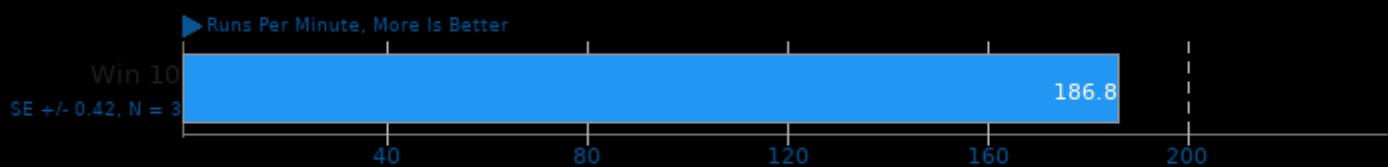
Benchmark: Jetstream 2 - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

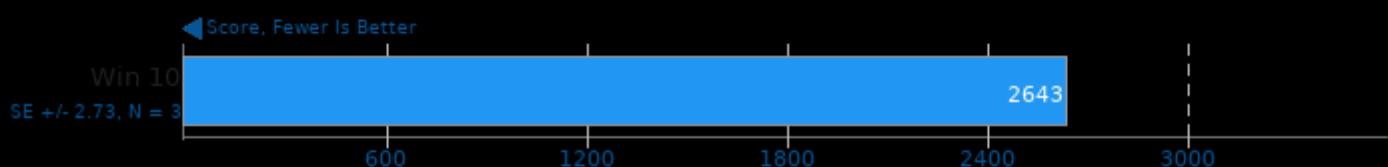
Benchmark: Speedometer - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

Benchmark: PSPDFKit WASM - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

Benchmark: WASM imageConvolute - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: WASM collisionDetection - Browser: Firefox



1. firefox 87.0

## Selenium

Benchmark: WASM imageConvolute - Browser: Google Chrome



1. chrome 89.0.4389.114

## Selenium

Benchmark: WASM collisionDetection - Browser: Google Chrome



1. chrome 89.0.4389.114

## WavPack Audio Encoding 5.3

WAV To WavPack



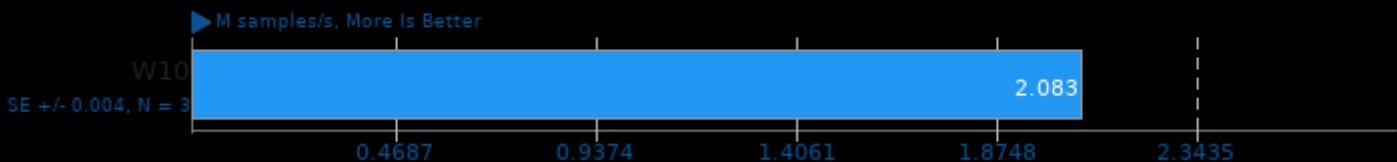
## Chaos Group V-RAY 5

Mode: CPU



## IndigoBench 4.4

Acceleration: CPU - Scene: Bedroom



## IndigoBench 4.4

Acceleration: CPU - Scene: Supercar



*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:17.*