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Core i7 4960X Linux 2

Intel Core i7-4960X testing with a MSI X79MA-GD45 (MS-7738) v1.0 (V3.8 BIOS) and AMD FirePro V4800 1GB on Ubuntu 18.04 via the Phoronix Test Suite.

Automated Executive Summary

No Mitigations had the most wins, coming in first place for 70% of the tests.

Based on the geometric mean of all complete results, the fastest (No Mitigations) was 1.086x the speed of the slowest (MDS Mitigations + No HT). MDS Mitigations was 0.996x the speed of No Mitigations, Default Mitigations was 0.952x the speed of MDS Mitigations, MDS Mitigations + No HT was 0.971x the speed of Default Mitigations.

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

Selenium (CPU Power Consumption Monitor) at 11.681x
Selenium (CPU Power Consumption Monitor) at 11.268x
Go Benchmarks (CPU Power Consumption Monitor) at 8.247x
Timed LLVM Compilation (CPU Power Consumption Monitor) at 8.032x
Stockfish (CPU Power Consumption Monitor) at 7.97x
Chaos Group V-RAY (CPU Power Consumption Monitor) at 7.921x
Blender (CPU Power Consumption Monitor) at 7.783x
Go Benchmarks (CPU Power Consumption Monitor) at 7.654x

*x264 (CPU Power Consumption Monitor) at 7.642x
IndigoBench (CPU Power Consumption Monitor) at 7.409x.*

Test Systems:

No Mitigations

Default Mitigations

MDS Mitigations

Processor: Intel Core i7-4960X @ 4.00GHz (6 Cores / 12 Threads), Motherboard: MSI X79MA-GD45 (MS-7738) v1.0 (V3.8 BIOS), Chipset: Intel Xeon E7 v2/Xeon, Memory: 8192MB, Disk: VisionTek 240GB, Graphics: AMD FirePro V4800 1GB, Audio: Realtek ALC892, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 4.18.0-20-generic (x86_64), Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.1, Display Driver: modesetting 1.20.1, OpenGL: 3.3 Mesa 18.2.8 (LLVM 7.0.0), 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,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --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

Disk Notes: CFQ / errors=remount-ro,relatime,rw

Processor Notes: Scaling Governor: intel_pstate powersave

Python Notes: Python 2.7.15rc1 + Python 3.6.7

Security Notes: I1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled

MDS Mitigations + No HT

Processor: Intel Core i7-4960X @ 4.00GHz (6 Cores), Motherboard: MSI X79MA-GD45 (MS-7738) v1.0 (V3.8 BIOS), Chipset: Intel Xeon E7 v2/Xeon, Memory: 8192MB, Disk: VisionTek 240GB, Graphics: AMD FirePro V4800 1GB, Audio: Realtek ALC892, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 4.18.0-21-generic (x86_64), Desktop: GNOME Shell 3.28.3, Display Server: X Server 1.20.1, Display Driver: modesetting 1.20.1, OpenGL: 3.3 Mesa 18.2.8 (LLVM 7.0.0), Compiler: GCC 7.4.0, File-System: ext4, Screen Resolution: 1920x1080

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Disk Notes: CFQ / errors=remount-ro,relatime,rw

Processor Notes: Scaling Governor: intel_pstate powersave

Python Notes: Python 2.7.15rc1 + Python 3.6.7

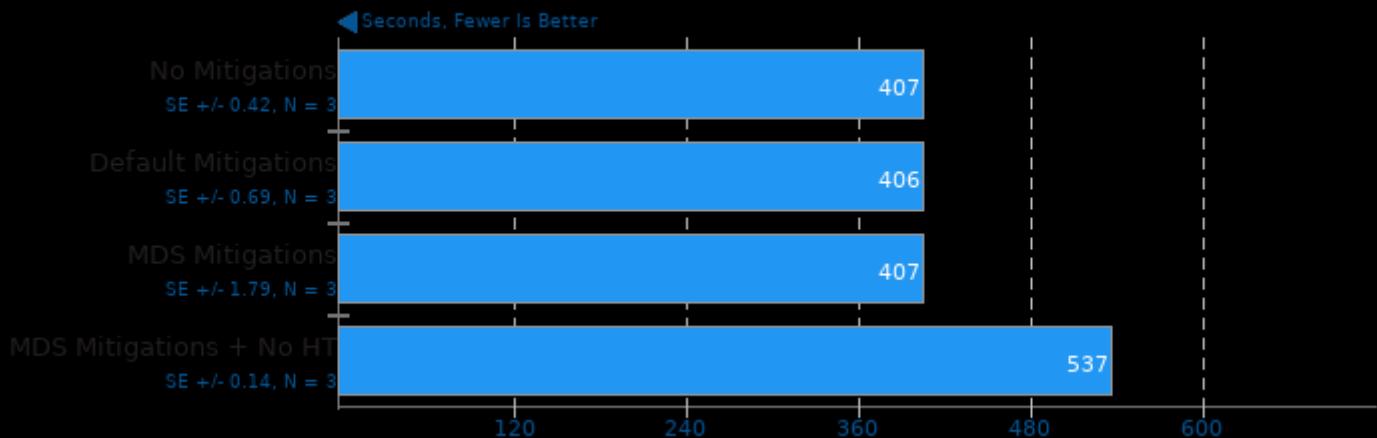
Security Notes: I1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled

	No Mitigations	Default Mitigations	MDS Mitigations	MDS Mitigations + No HT
Blender - BMW27 - CPU-Only (sec)	407	406	407	537
Normalized	99.75%	100%	99.75%	75.61%
Standard Deviation	0.2%	0.3%	0.8%	0%
Selenium - ARES-6 - Google Chrome (ms)	26.89	32.70	27.22	27.29
Normalized	100%	82.23%	98.79%	98.53%
Standard Deviation	0.4%	0.8%	0.7%	0.2%
Selenium - Basemark - Google Chrome (Overall Score)	504	464	504	514
Normalized	98.05%	90.27%	98.05%	100%
Standard Deviation	4.6%	5.5%	5.5%	3%
Selenium - Speedometer - Google Chrome (Runs/min)	77.79	69.70	77.52	77.87
Normalized	99.9%	89.51%	99.55%	100%
Standard Deviation	0.3%	0.9%	0.8%	0.8%
Selenium - WebXPRT - Google Chrome (Score)	204	179	203	201
Normalized	100%	87.75%	99.51%	98.53%
Standard Deviation				0.7%
Selenium - Octane - Google Chrome (Geometric Mean)	36984	30248	36762	36194
Normalized	100%	81.79%	99.4%	97.86%
Standard Deviation	0.5%	0.5%	0.3%	0.8%
Selenium - Jetstream - Google Chrome (Score)	178	147	177	175
Normalized	100%	82.58%	99.44%	98.31%
Standard Deviation	1%	0.3%	0.2%	1%
Selenium - Jetstream 2 - Google Chrome (Score)	103.62	87.94	103.63	99.79
Normalized	99.99%	84.86%	100%	96.29%
Standard Deviation	0.5%	0.4%	0.3%	0.6%
Go Benchmarks - build (ns/op)	19052584533	20324187878	19458391602	19037709479
Normalized	99.92%	93.67%	97.84%	100%
Standard Deviation	1.1%	1%	1%	1%
Go Benchmarks - json (ns/op)	10528486	10532921	10534687	11407052
Normalized	100%	99.96%	99.94%	92.3%
Standard Deviation	0.2%	0.2%	0.2%	0.2%
Go Benchmarks - garbage (ns/op)	2179291	2196653	2187754	2731818
Normalized	100%	99.21%	99.61%	79.77%
Standard Deviation	0.4%	0.3%	0.3%	0.3%
x264 - H.2.V.E (FPS)	46.14	45.89	46.07	40.22
Normalized	100%	99.46%	99.85%	87.17%
Standard Deviation	1.2%	1.1%	1.1%	1.8%
Timed LLVM Compilation - Time To Compile (sec)	899	914	905	1056
Normalized	100%	98.36%	99.34%	85.13%
Standard Deviation	0.3%	0.5%	0.5%	0.1%
Darktable - Boat - CPU-only (sec)	25.82	25.89	25.85	22.46
Normalized	86.99%	86.75%	86.89%	100%
Standard Deviation	0.1%	0.1%	0.1%	0.1%
Darktable - Masskrug - CPU-only (sec)	10.25	10.43	10.33	11.32
Normalized	100%	98.27%	99.23%	90.55%

	Standard Deviation	0.1%	0.1%	0.1%	0.6%
Darktable - Server Room - CPU-only	9.20	9.27	9.23	9.64	
(sec)					
	Normalized	100%	99.24%	99.67%	95.44%
	Standard Deviation	0.2%	0.3%	0.3%	0.1%
Darktable - Server Rack - CPU-only	0.32	0.33	0.32	0.32	
(sec)					
	Normalized	100%	96.97%	100%	100%
	Standard Deviation	0.2%	1%	0.3%	0.4%
IndigoBench - Supercar (M samples/s)	1.55	1.54	1.55	1.15	
	Normalized	100%	99.35%	100%	74.19%
	Standard Deviation	0.7%	0.3%	0.9%	0.4%
IndigoBench - Bedroom (M samples/s)	0.71	0.71	0.71	0.51	
	Normalized	100%	100%	100%	71.83%
	Standard Deviation	0.2%	0.4%	0.6%	0.2%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9	49.20	49.30	49.22	59.71	
(sec)					
	Normalized	100%	99.8%	99.96%	82.4%
	Standard Deviation	0.2%	0.3%	0.3%	0.5%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)	37.20	37.26	37.26	37.70	
	Normalized	100%	99.84%	99.84%	98.67%
	Standard Deviation	0.1%	0.1%	0.2%	0.1%
Stockfish - Total Time (Nodes/s)	14456352	14353931	14521789	11702383	
	Normalized	99.55%	98.84%	100%	80.58%
	Standard Deviation	1.3%	1.1%	0.7%	1.2%
Scikit-Learn (sec)	15.60	15.75	15.66	15.03	
	Normalized	96.35%	95.43%	95.98%	100%
	Standard Deviation	0.8%	0.8%	1.3%	1.1%
PHPBench - P.B.S (Score)	446994	435319	441784	444162	
	Normalized	100%	97.39%	98.83%	99.37%
	Standard Deviation	0.2%	0.3%	0.7%	0.3%
Dbench - 6 (MB/s)	574	558	568		
	Normalized	100%	97.21%	98.95%	
	Standard Deviation	0.7%	0.5%	1%	
GraphicsMagick - Enhanced	108	107	108		
(Iterations/min)					
	Normalized	100%	99.07%	100%	
GraphicsMagick - Resizing	211	209	210		
(Iterations/min)					
	Normalized	100%	99.05%	99.53%	
	Standard Deviation	0.2%		0.2%	
GraphicsMagick - Sharpen	102	102	102		
(Iterations/min)					
Himenzo Benchmark - P.P.S (MFLOPS)	1717	1714	1713		
	Normalized	100%	99.83%	99.77%	
	Standard Deviation	0.7%	0.9%	0.5%	
PyBench - T.F.A.T.T (Milliseconds)	1368	1367	1367		
	Normalized	99.93%	100%	100%	
	Standard Deviation		0.2%	0.3%	
Chaos Group V-RAY - CPU	5975	5912	5924		
	Normalized	100%	98.95%	99.15%	
	Standard Deviation	0.4%	0.9%	0.2%	

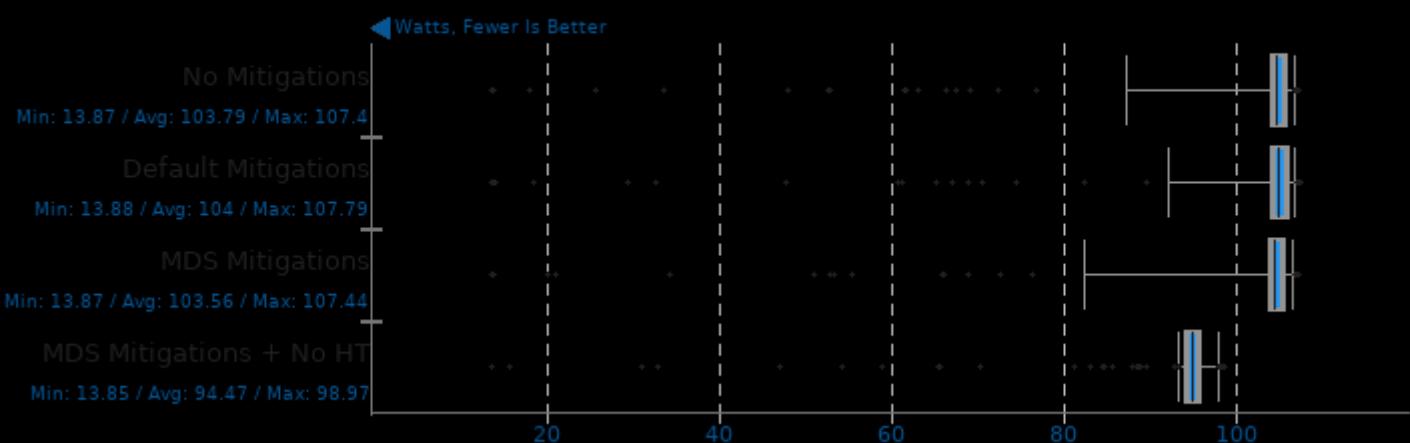
Blender 2.79a

Blend File: BMW27 - Compute: CPU-Only



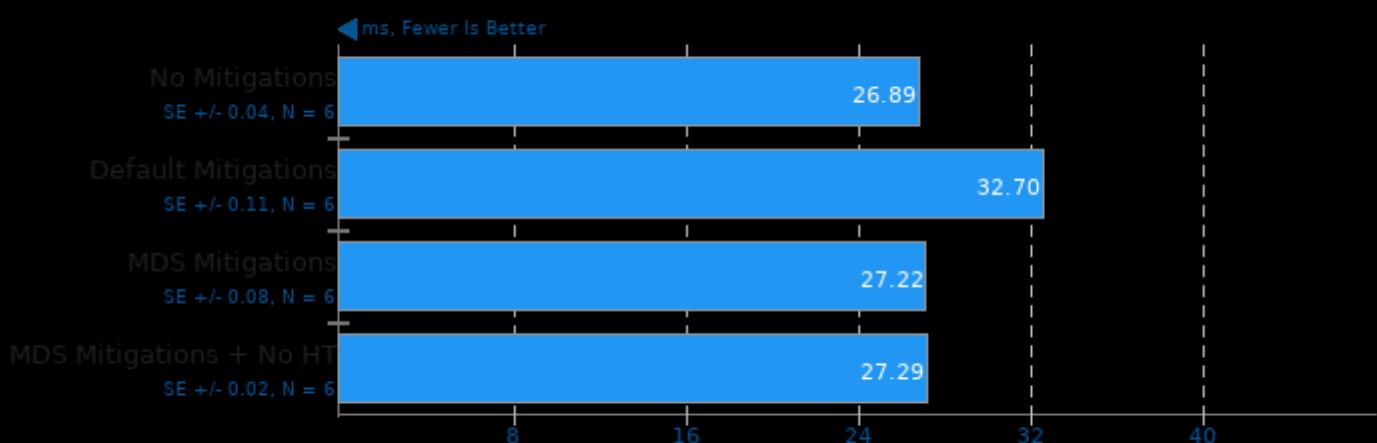
Blender 2.79a

CPU Power Consumption Monitor



Selenium

Benchmark: ARES-6 - Browser: Google Chrome



1. chrome 74.0.3729.169

Selenium

CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.9	51.7	68.6
Default Mitigations	13.8	52.9	69.0
MDS Mitigations	13.9	51.6	68.5
MDS Mitigations + No HT	13.8	51.9	74.8

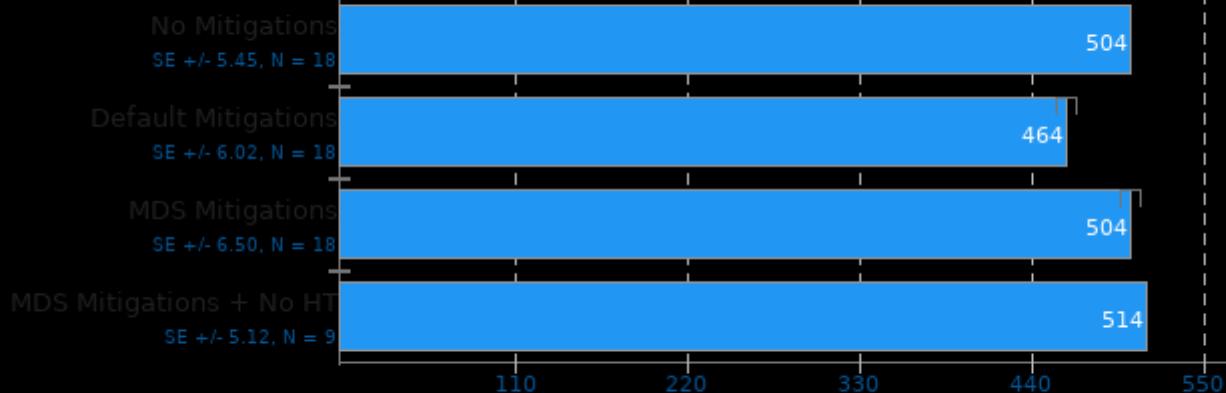
▼ Watts, Fewer Is Better



Selenium

Benchmark: Basemark - Browser: Google Chrome

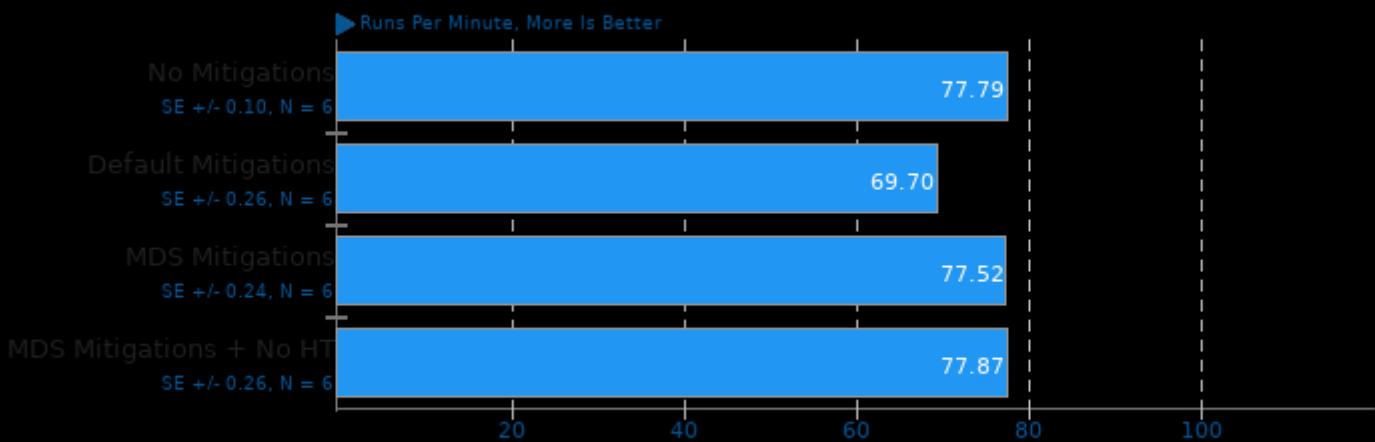
► Overall Score, More Is Better



1. chrome 74.0.3729.169

Selenium

Benchmark: Speedometer - Browser: Google Chrome



1. chrome 74.0.3729.169

Selenium

CPU Power Consumption Monitor

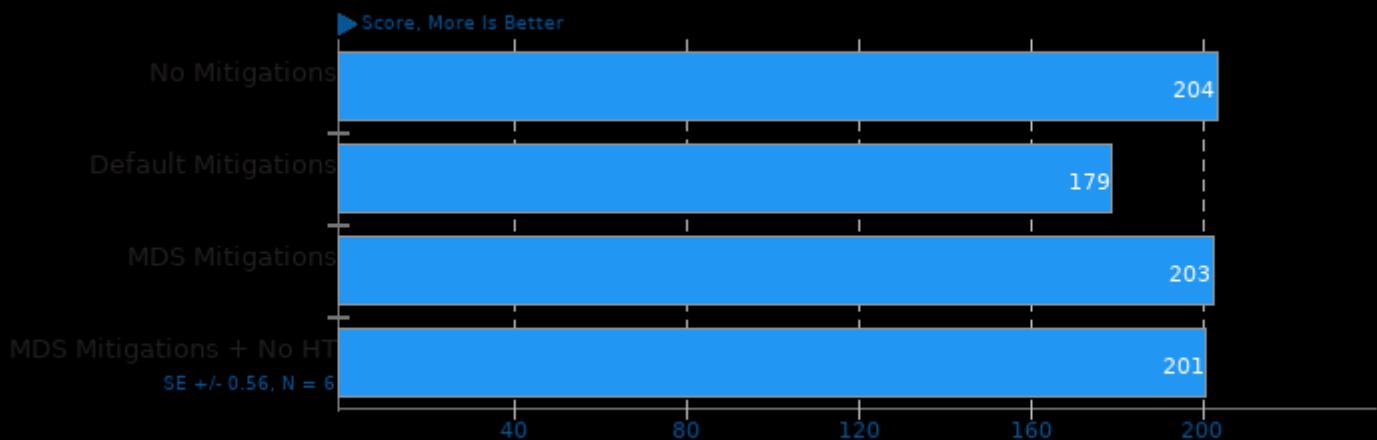
	Min	Avg	Max
No Mitigations	13.9	51.4	66.6
Default Mitigations	13.9	51.8	66.5
MDS Mitigations	13.9	51.0	67.2
MDS Mitigations + No HT	13.8	50.6	66.5

▼ Watts, Fewer Is Better



Selenium

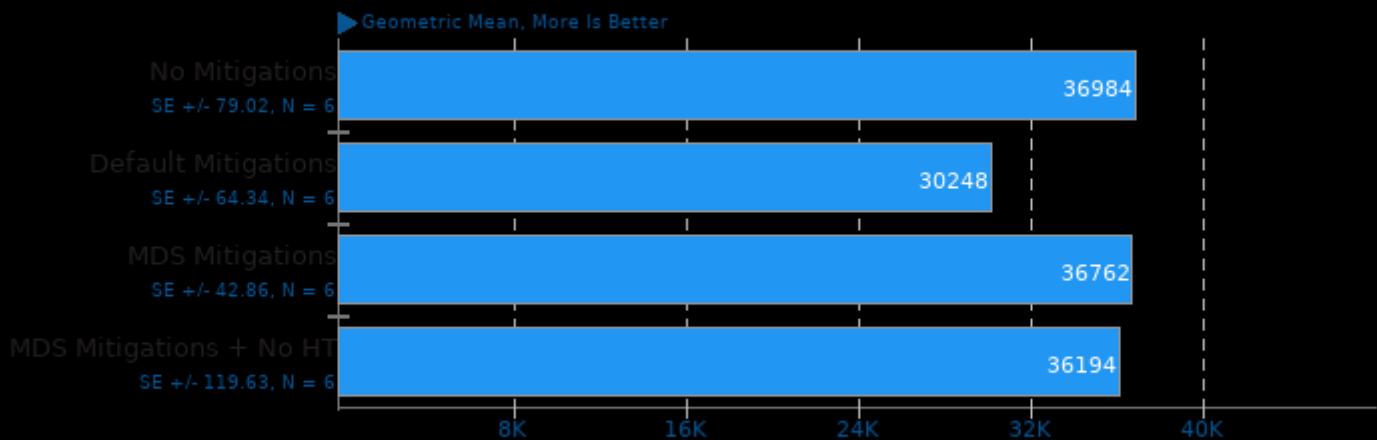
Benchmark: WebXPRT - Browser: Google Chrome



1. chrome 74.0.3729.169

Selenium

Benchmark: Octane - Browser: Google Chrome



1. chrome 74.0.3729.169

Selenium

CPU Power Consumption Monitor

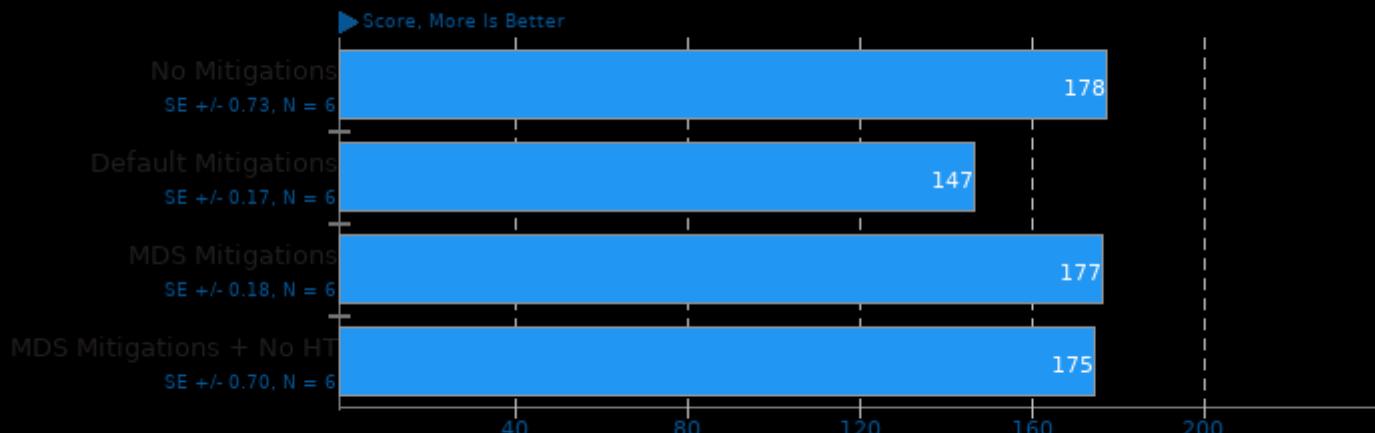
	Min	Avg	Max
No Mitigations	13.9	49.2	69.2
Default Mitigations	13.9	49.5	68.7
MDS Mitigations	13.9	49.3	68.7
MDS Mitigations + No HT	13.8	48.0	69.2

▼ Watts, Fewer Is Better



Selenium

Benchmark: Jetstream - Browser: Google Chrome



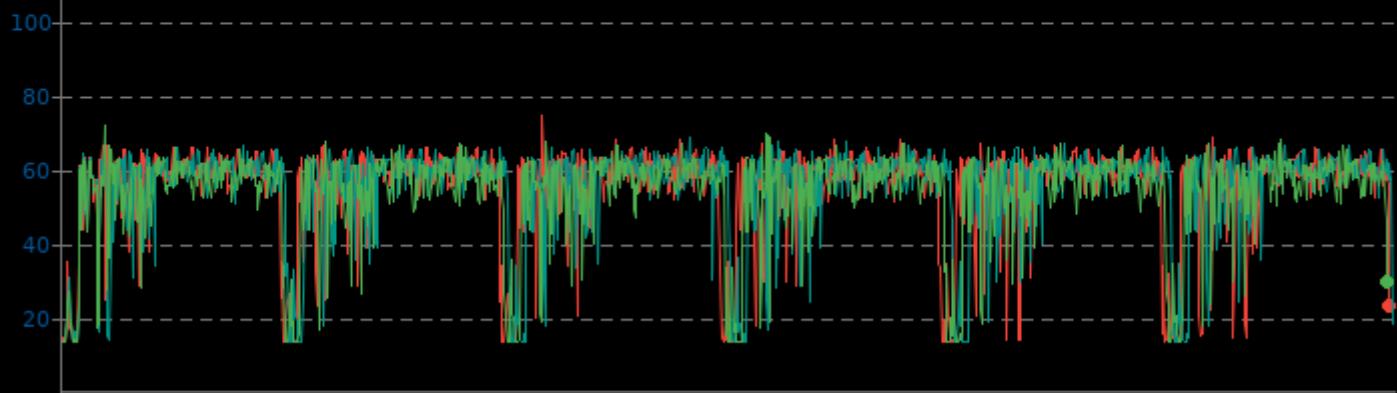
1. chrome 74.0.3729.169

Selenium

CPU Power Consumption Monitor

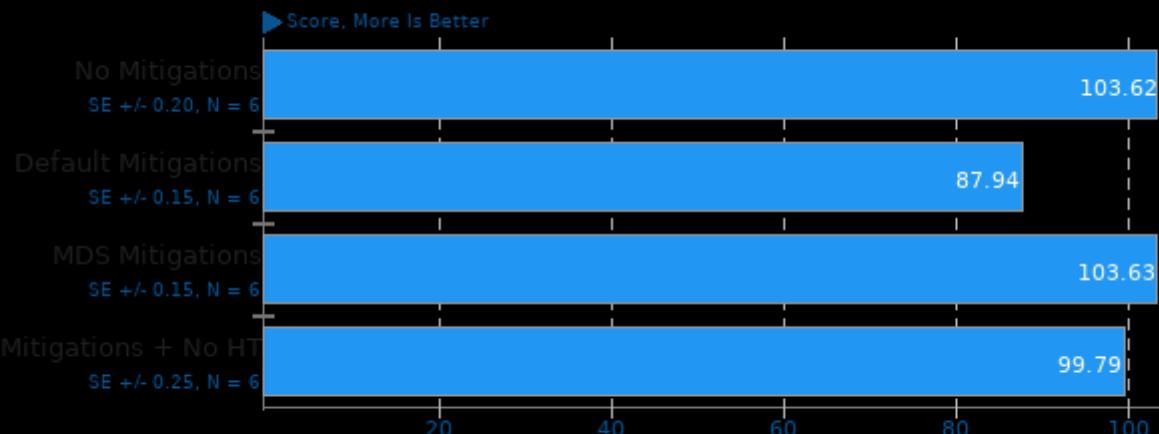
	Min	Avg	Max
No Mitigations	13.9	54.9	74.2
MDS Mitigations	13.9	54.9	68.3
MDS Mitigations + No HT	13.9	53.7	71.5

▼ Watts, Fewer Is Better



Selenium

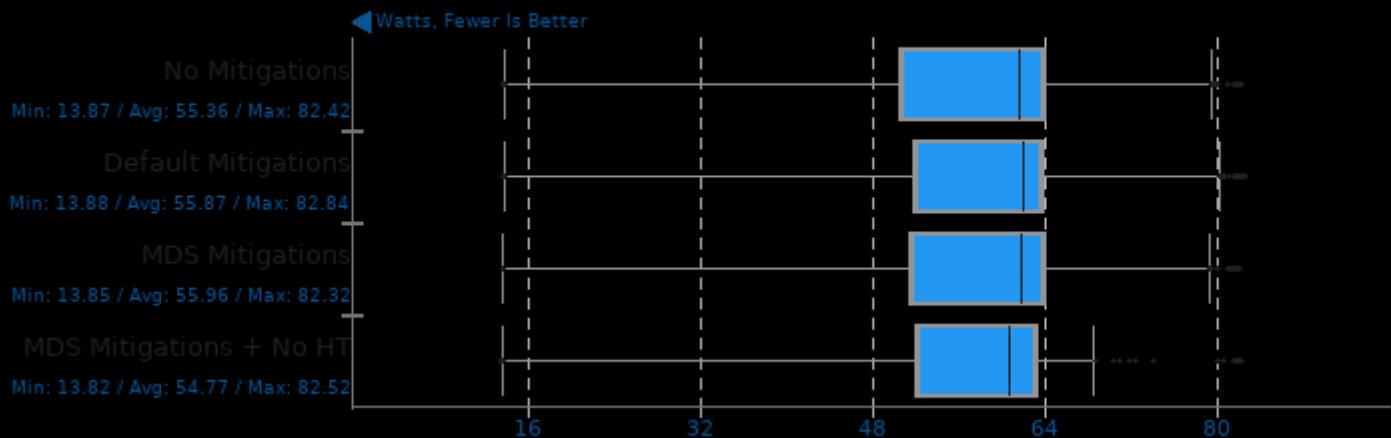
Benchmark: Jetstream 2 - Browser: Google Chrome



1. chrome 74.0.3729.169

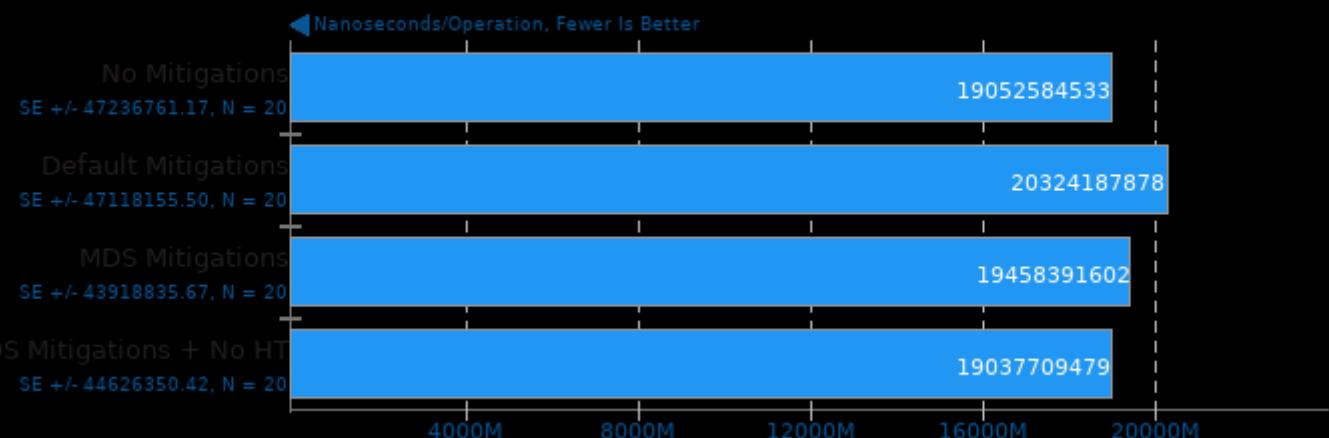
Selenium

CPU Power Consumption Monitor



Go Benchmarks

Test: build



Go Benchmarks

CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	7.5	48.6	61.7
Default Mitigations	13.9	49.3	61.9
MDS Mitigations	13.8	48.8	61.6
MDS Mitigations + No HT	13.8	49.1	61.7

▼ Watts, Fewer Is Better



Go Benchmarks

Test: json

◀ Nanoseconds/Operation, Fewer Is Better

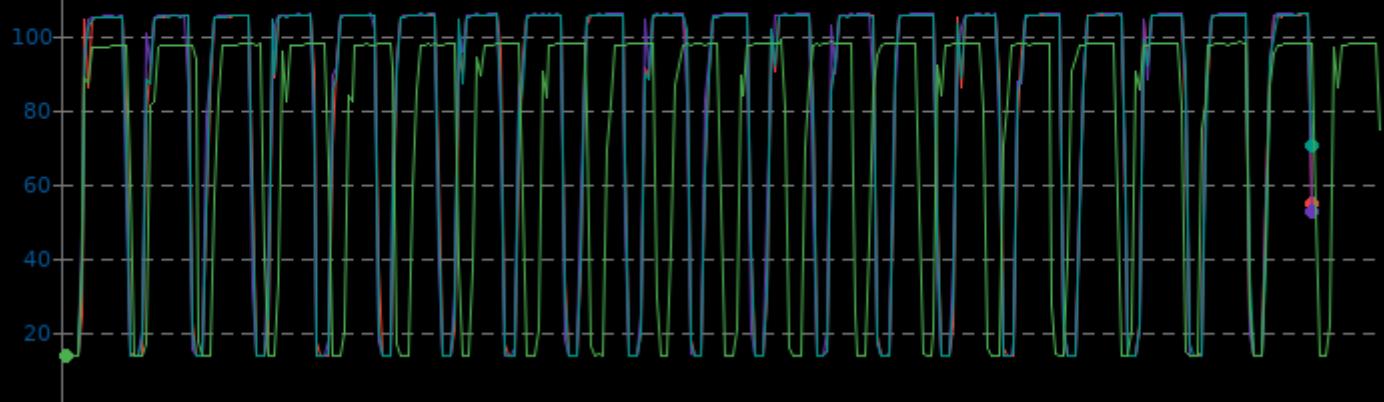


Go Benchmarks

CPU Power Consumption Monitor

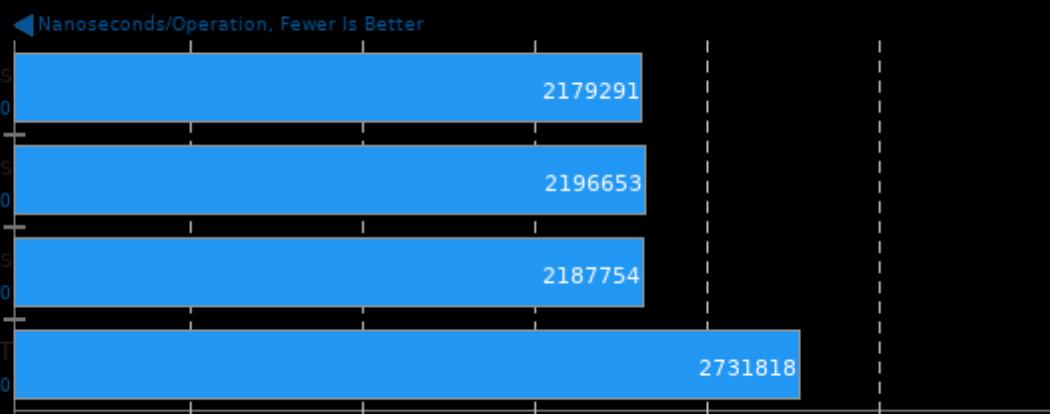
	Min	Avg	Max
No Mitigations	13.9	78.8	105.5
Default Mitigations	13.9	79.1	105.7
MDS Mitigations	13.8	78.9	105.8
MDS Mitigations + No HT	13.8	74.7	98.8

▼ Watts, Fewer Is Better



Go Benchmarks

Test: garbage

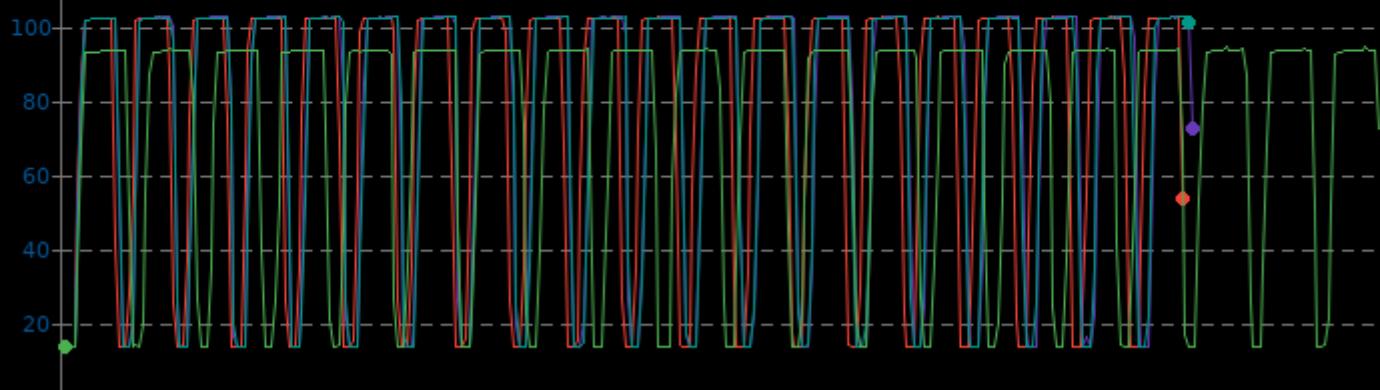


Go Benchmarks

CPU Power Consumption Monitor

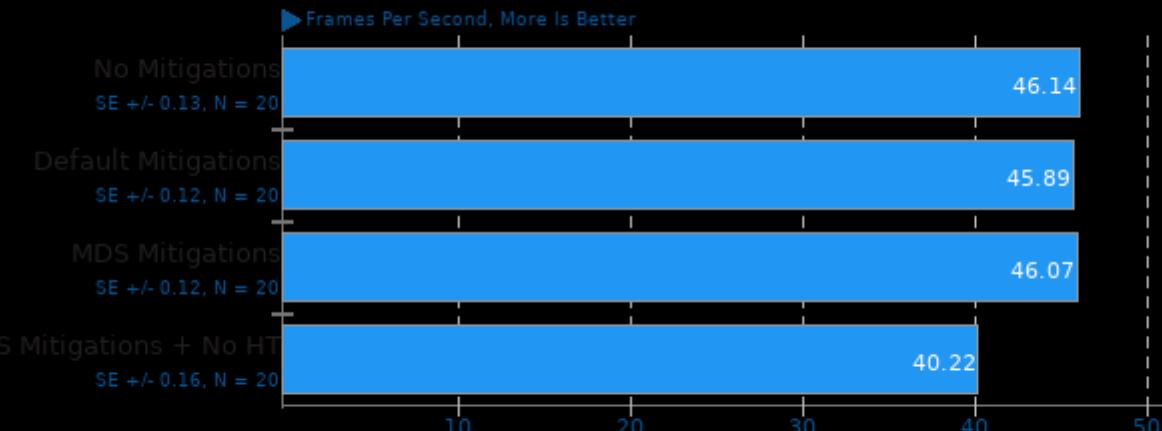
	Min	Avg	Max
No Mitigations	13.8	75.3	102.3
Default Mitigations	13.9	75.7	102.4
MDS Mitigations	13.9	75.4	102.3
MDS Mitigations + No HT	13.9	72.8	94.1

▼ Watts, Fewer Is Better



x264 2018-09-25

H.264 Video Encoding



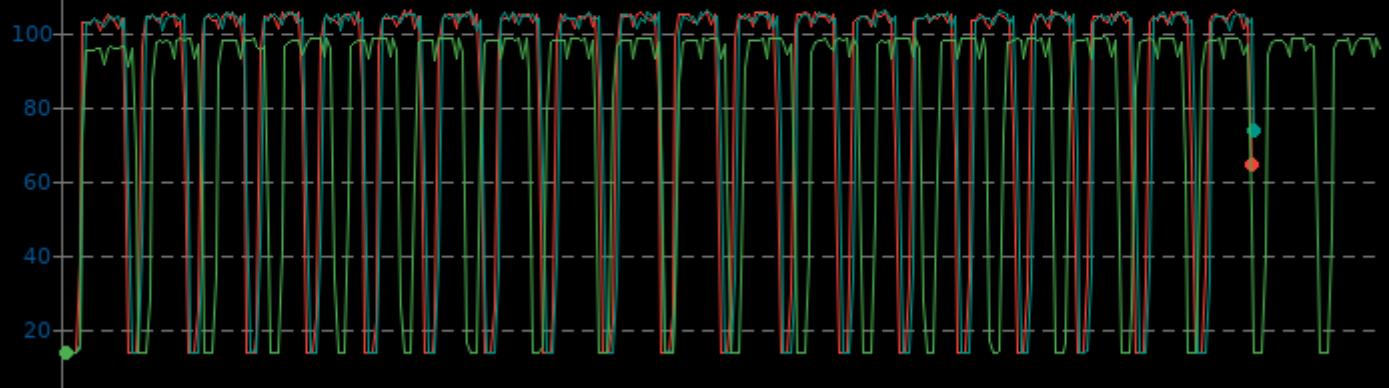
1. (CC) gcc options: -fPIC -fno-tree-vectorize

x264 2018-09-25

CPU Power Consumption Monitor

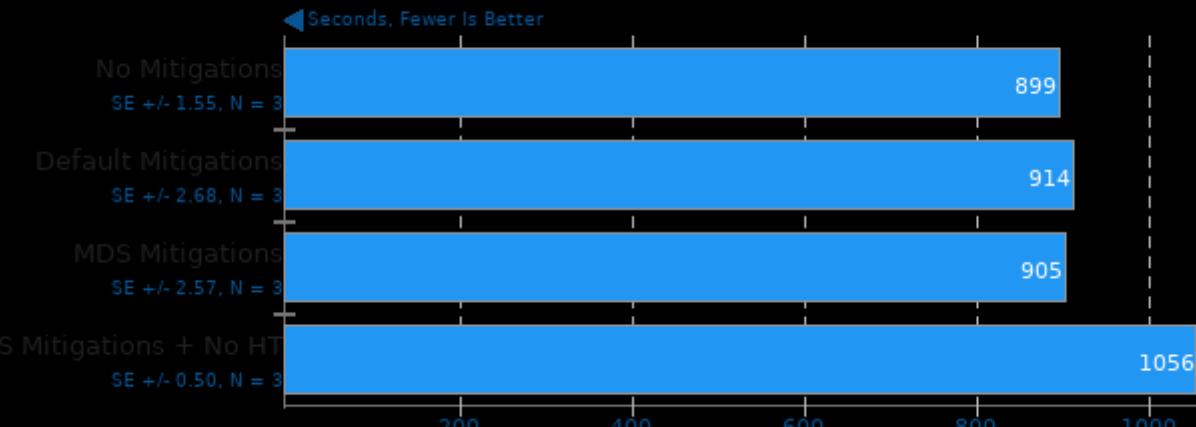
	Min	Avg	Max
No Mitigations	13.8	81.3	105.8
MDS Mitigations	13.9	81.2	105.7
MDS Mitigations + No HT	13.9	77.8	98.7

▼ Watts, Fewer Is Better



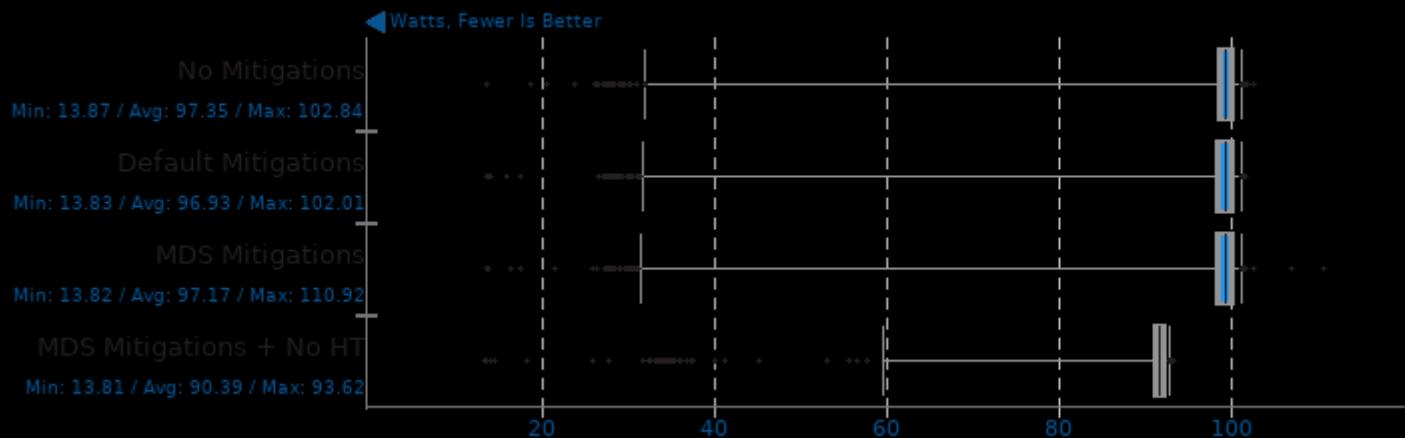
Timed LLVM Compilation 6.0.1

Time To Compile



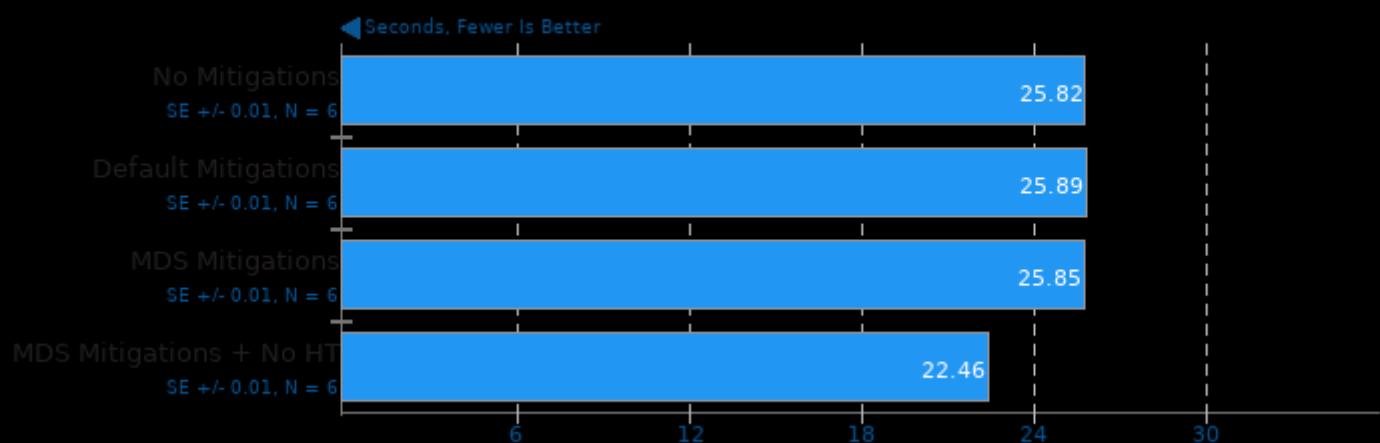
Timed LLVM Compilation 6.0.1

CPU Power Consumption Monitor



Darktable 2.4.2

Test: Boat - Acceleration: CPU-only



Darktable

CPU Power Consumption Monitor

No Mitigations	Min 13.9	Avg 79.4	Max 93.8
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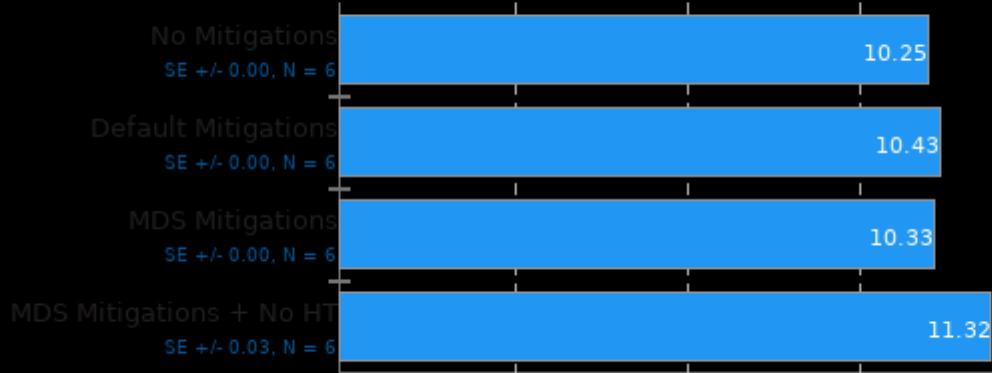
▼ Watts, Fewer Is Better



Darktable 2.4.2

Test: Masskrug - Acceleration: CPU-only

◀ Seconds, Fewer Is Better



Darktable

CPU Power Consumption Monitor

No Mitigations	Min 13.9	Avg 67.4	Max 93.9
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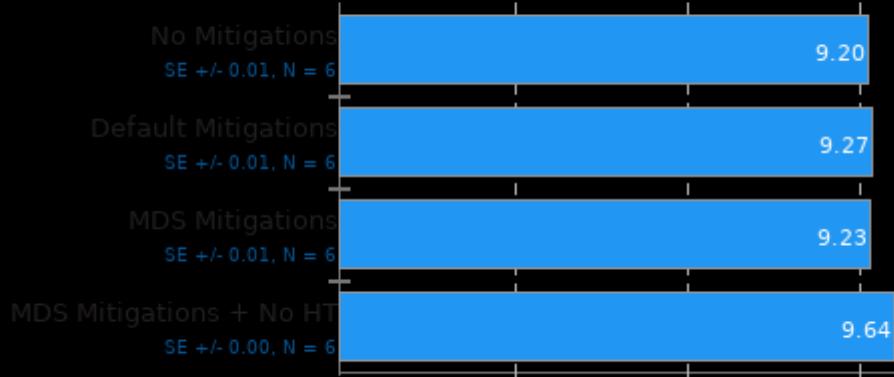
▼ Watts, Fewer Is Better



Darktable 2.4.2

Test: Server Room - Acceleration: CPU-only

◀ Seconds, Fewer Is Better



Darktable

CPU Power Consumption Monitor

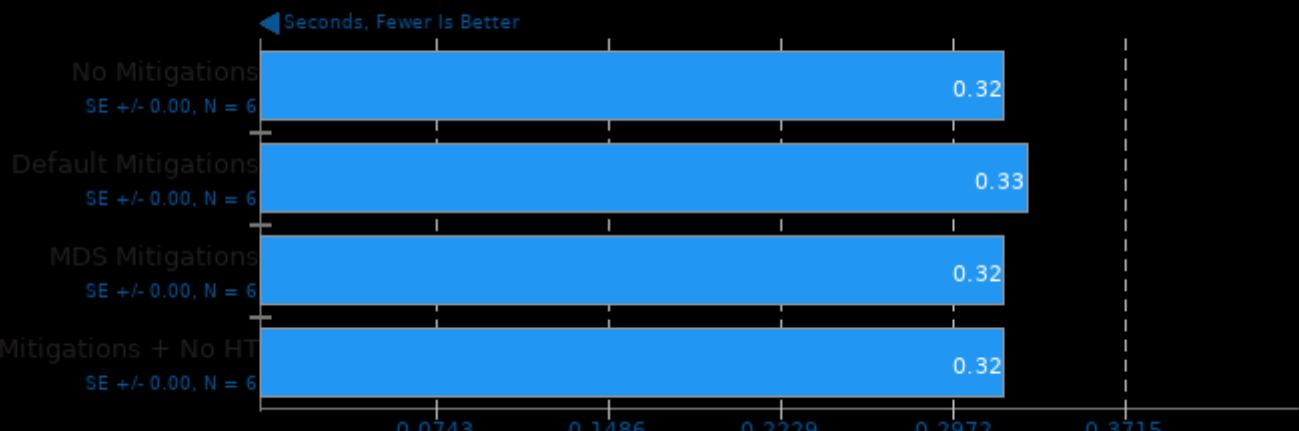
No Mitigations	Min	13.9
	Avg	66.4
	Max	94.0

▼ Watts, Fewer Is Better



Darktable 2.4.2

Test: Server Rack - Acceleration: CPU-only

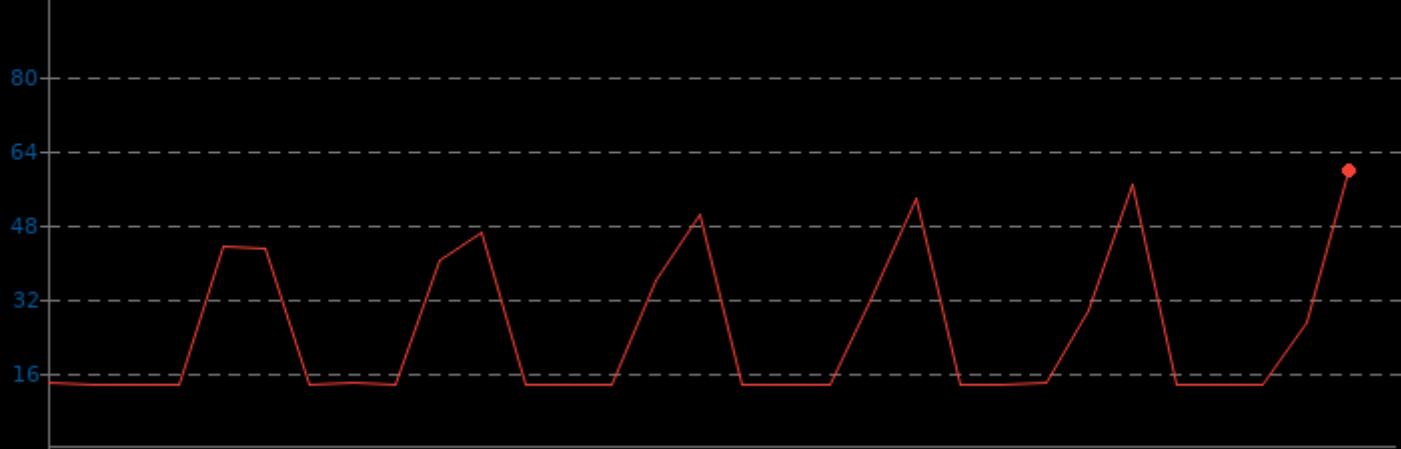


Darktable

CPU Power Consumption Monitor

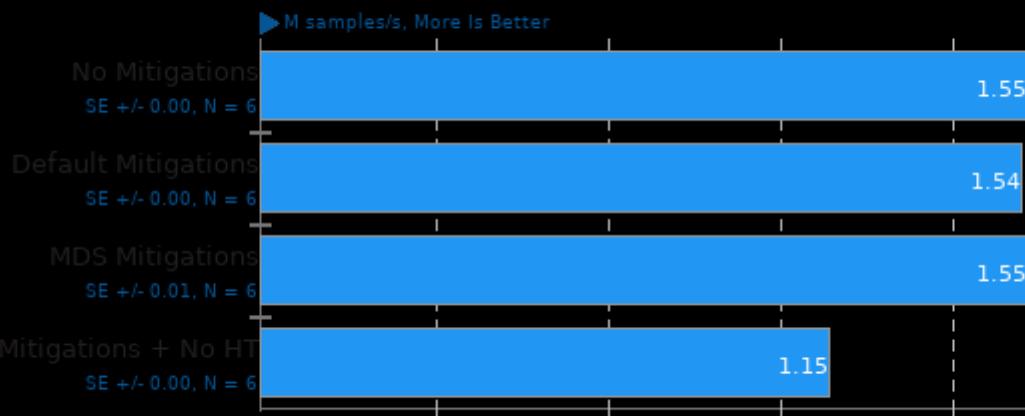
No Mitigations	Min 13.8	Avg 25.2	Max 59.4
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▼ Watts, Fewer Is Better



IndigoBench 4.0.64

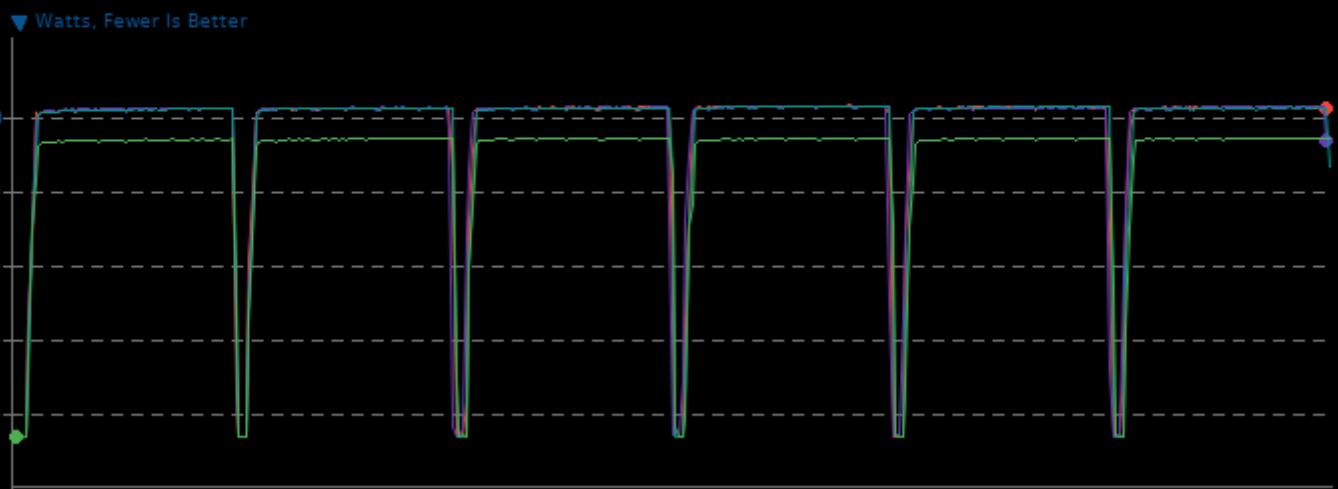
Scene: Supercar



IndigoBench 4.0.64

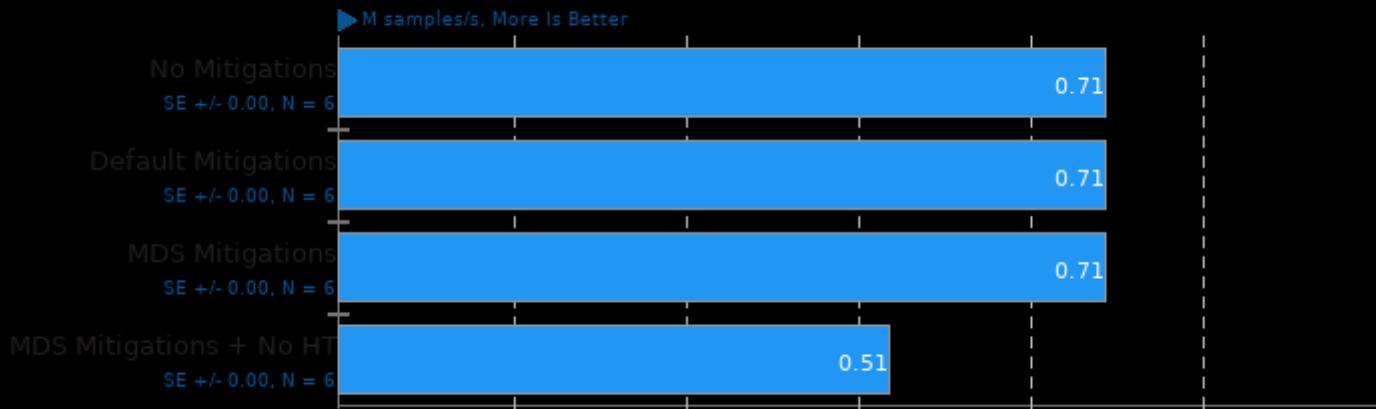
CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.9	95.7	102.6
Default Mitigations	13.9	95.6	102.4
MDS Mitigations	13.9	95.5	102.5
MDS Mitigations + No HT	13.9	87.9	94.0



IndigoBench 4.0.64

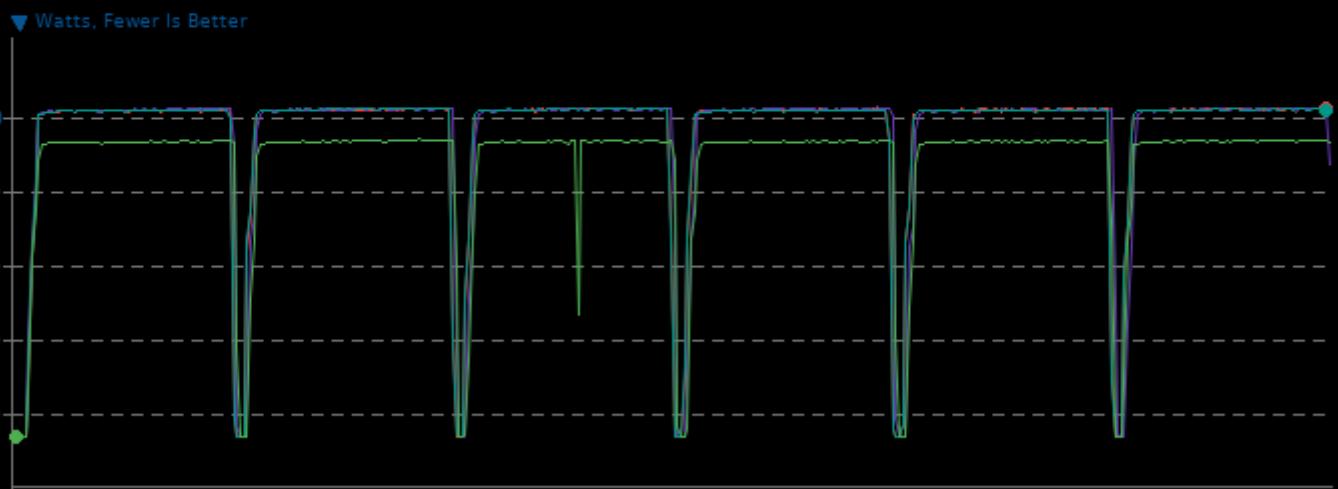
Scene: Bedroom



IndigoBench 4.0.64

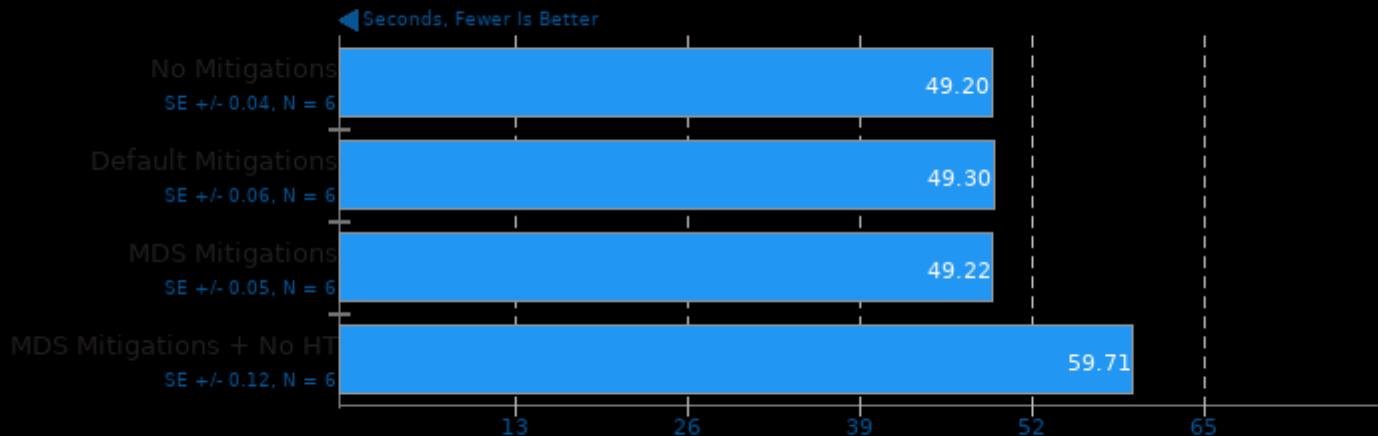
CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.9	94.9	101.7
Default Mitigations	13.9	94.9	102.6
MDS Mitigations	13.9	94.9	101.8
MDS Mitigations + No HT	13.9	87.1	93.5



XZ Compression 5.2.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9

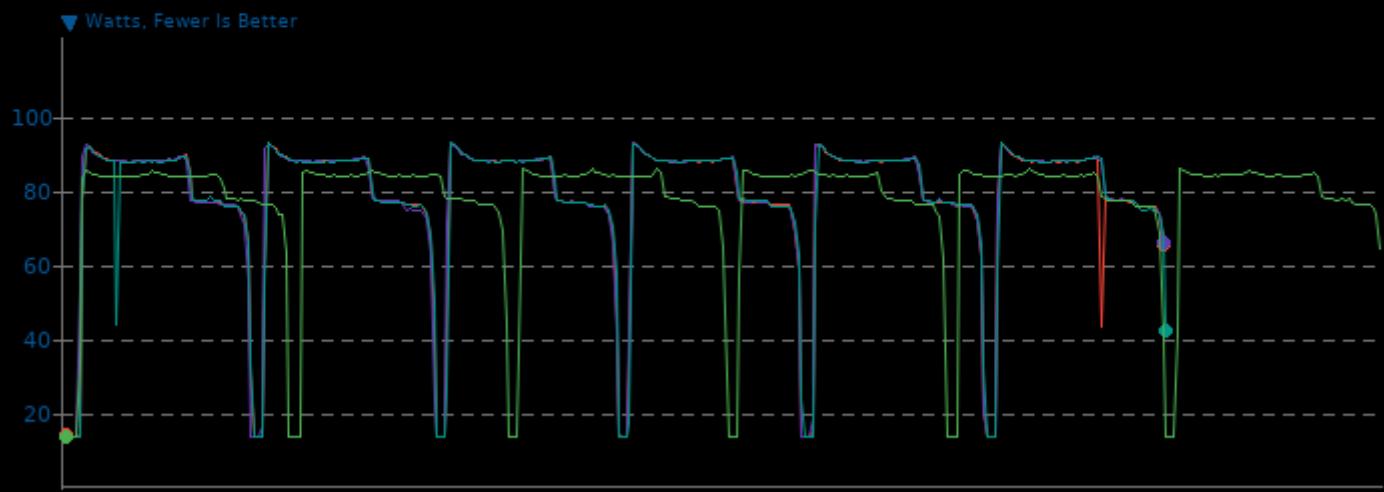


1. (CC) gcc options: -pthread -fvisibility=hidden -O2

XZ Compression 5.2.4

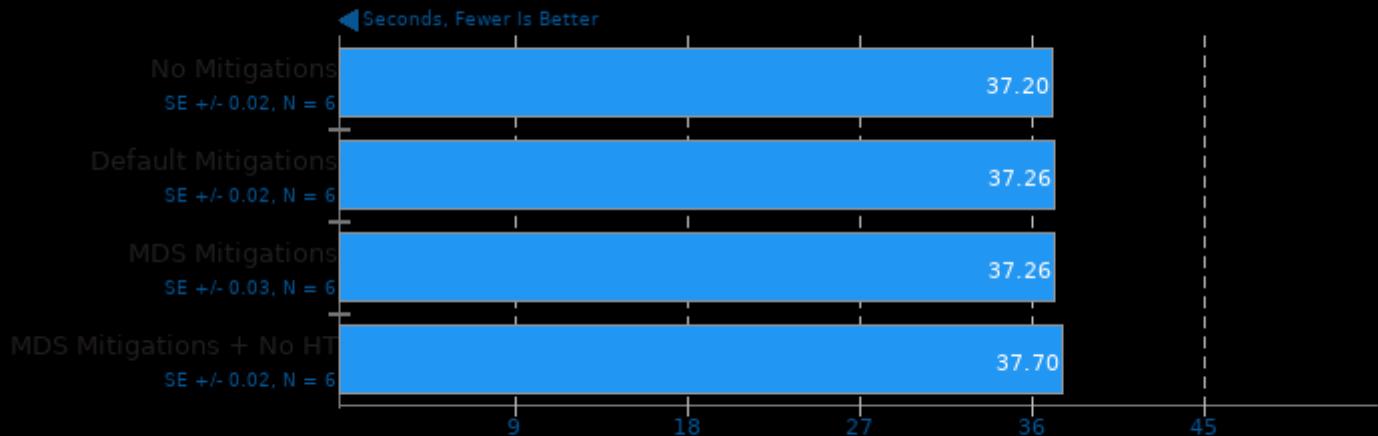
CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.9	77.8	92.9
Default Mitigations	13.9	78.2	92.8
MDS Mitigations	13.9	77.7	92.7
MDS Mitigations + No HT	13.9	77.1	85.6



Zstd Compression 1.3.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 19

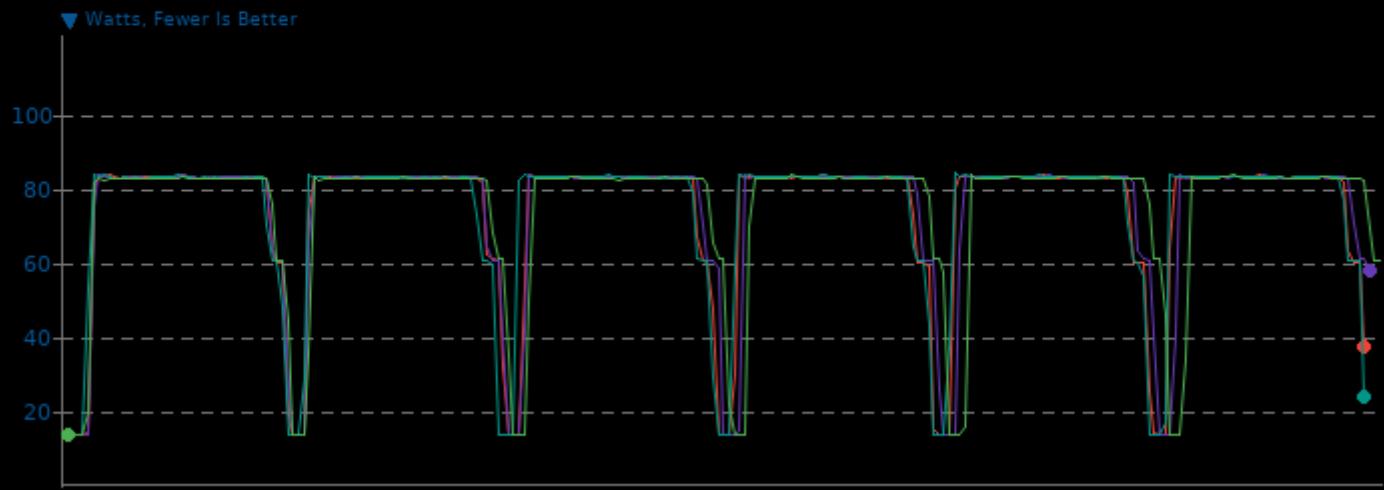


1. (CC) gcc options: -O3 -pthread -lz

Zstd Compression 1.3.4

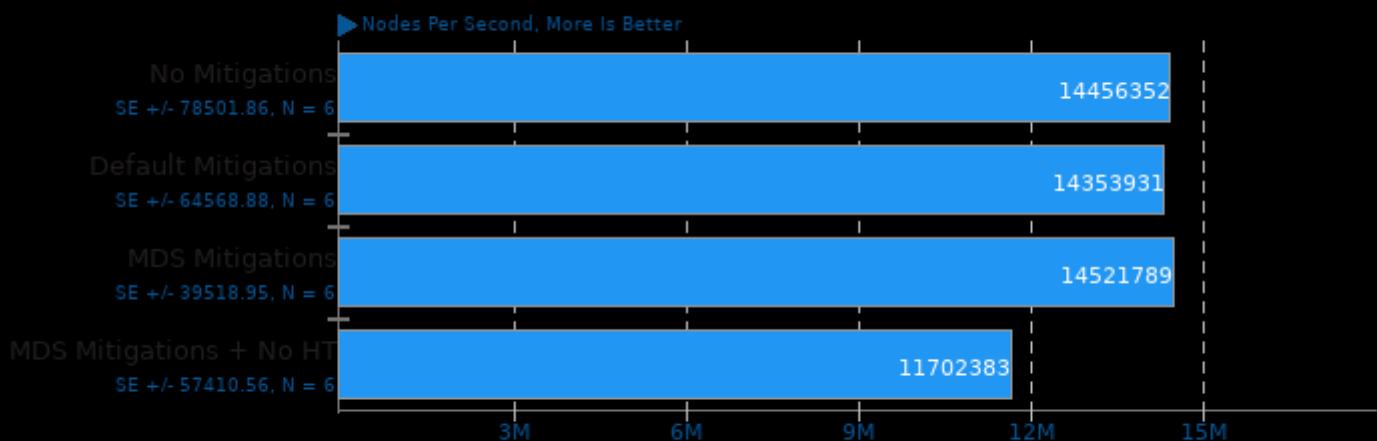
CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.8	73.9	83.7
Default Mitigations	13.8	74.0	83.7
MDS Mitigations	13.9	74.0	84.1
MDS Mitigations + No HT	13.9	74.2	83.6



Stockfish 9

Total Time

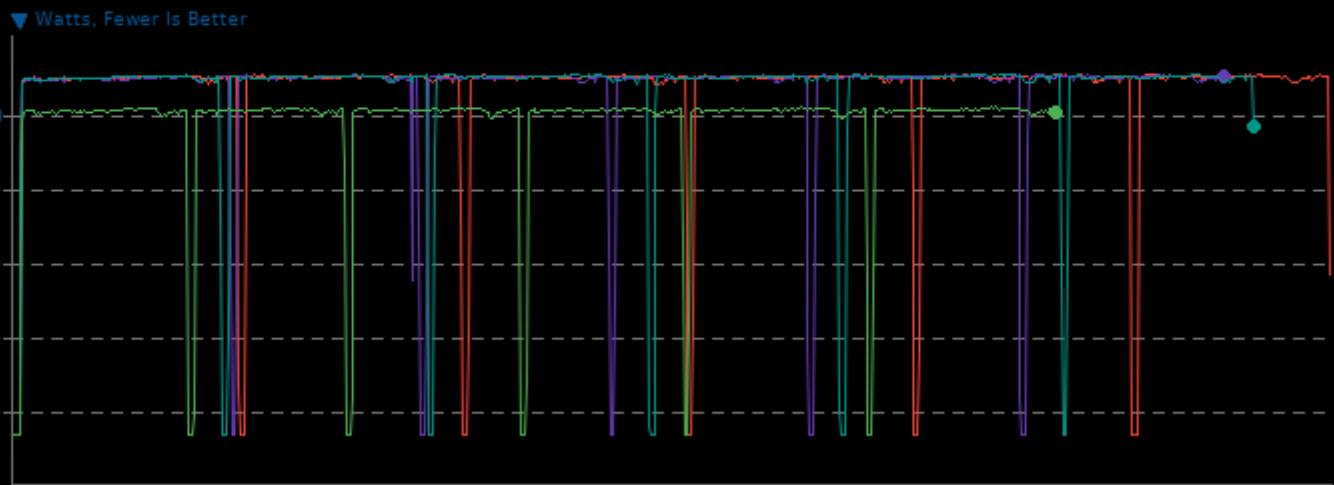


1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -fno-

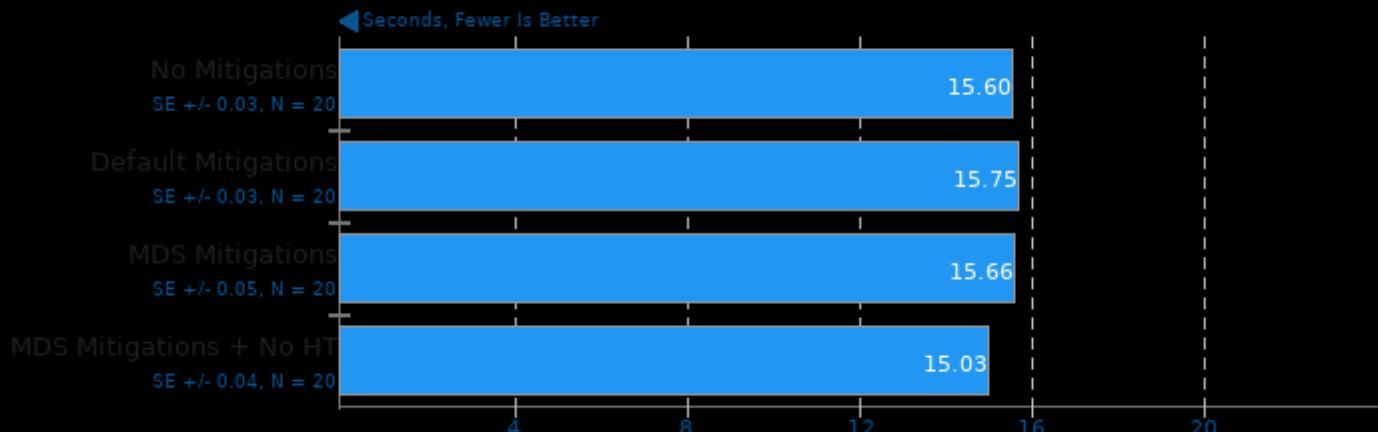
Stockfish 9

CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.9	106.3	110.4
Default Mitigations	13.9	105.9	110.4
MDS Mitigations	13.9	106.2	110.3
MDS Mitigations + No HT	13.9	97.0	101.6



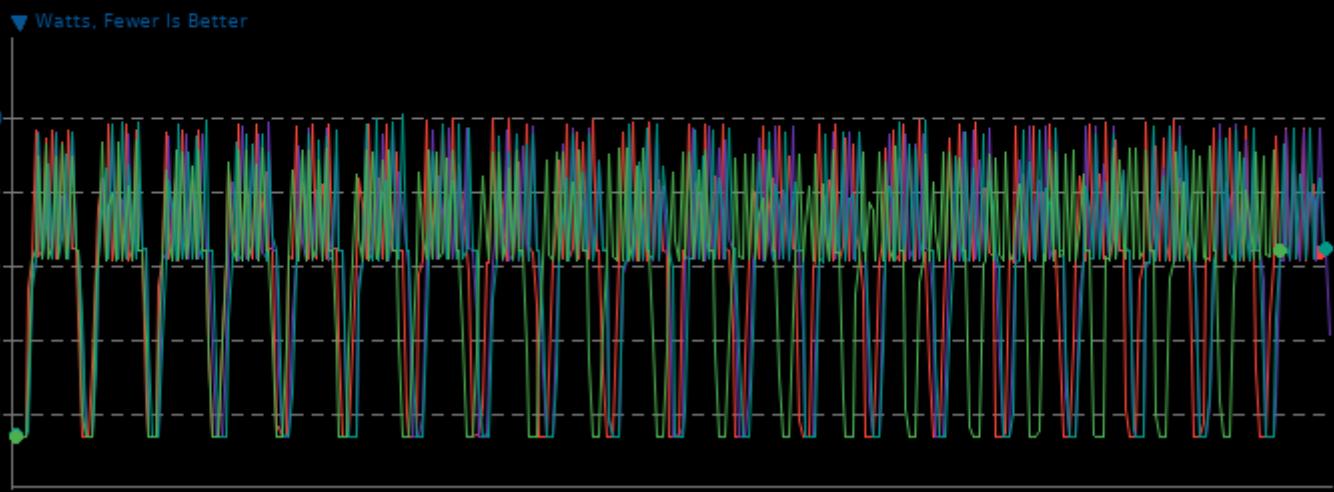
Scikit-Learn 0.17.1



Scikit-Learn 0.17.1

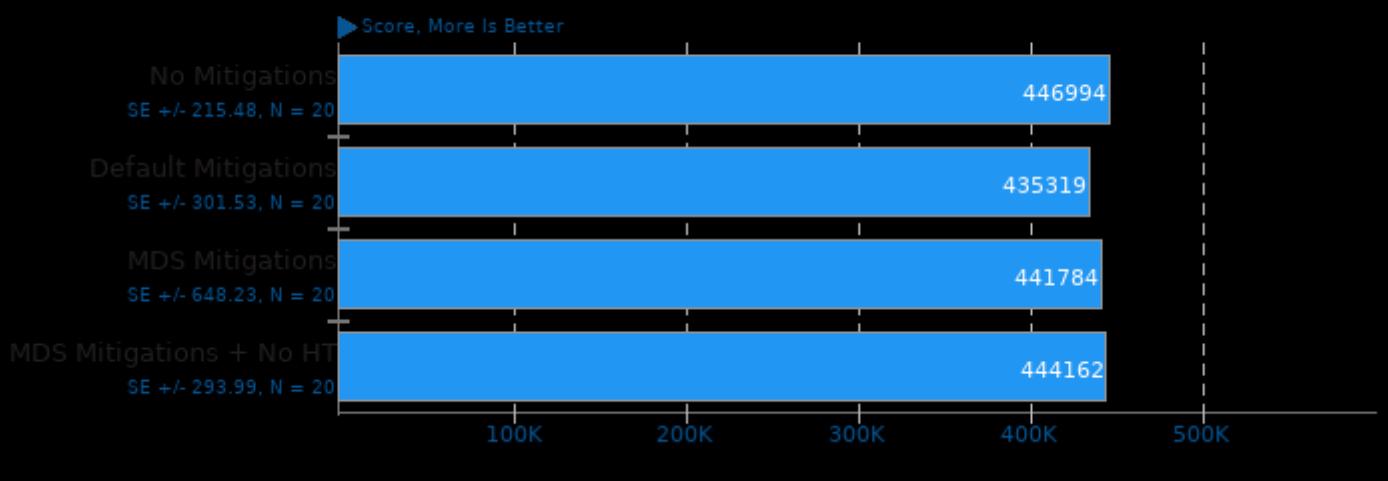
CPU Power Consumption Monitor

	Min	Avg	Max
No Mitigations	13.8	61.2	99.1
Default Mitigations	13.8	60.7	97.8
MDS Mitigations	13.8	60.8	100.1
MDS Mitigations + No HT	13.8	59.2	93.2



PHPBench 0.8.1

PHP Benchmark Suite

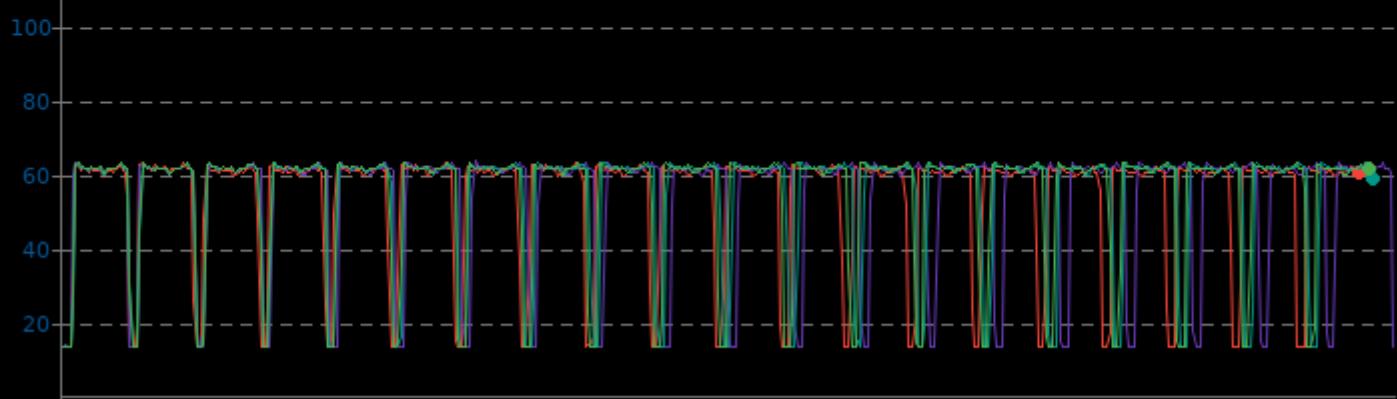


PHPBench 0.8.1

CPU Power Consumption Monitor

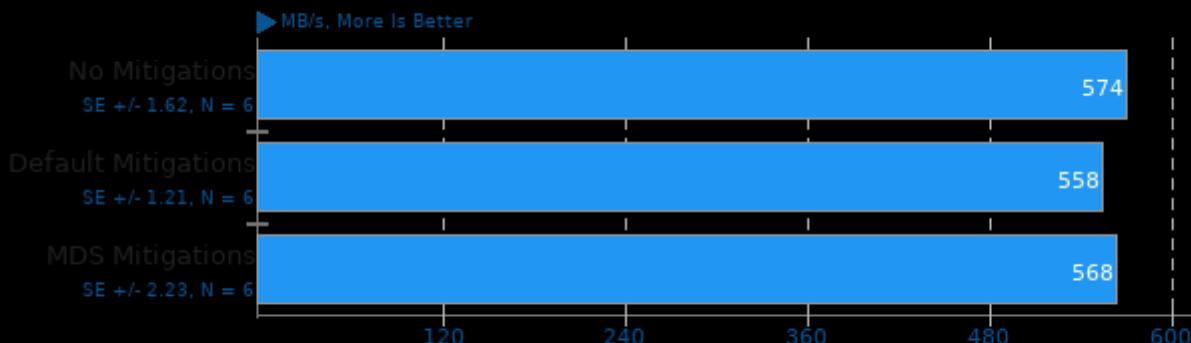
	Min	Avg	Max
No Mitigations	13.8	53.9	63.0
Default Mitigations	13.8	54.5	63.5
MDS Mitigations	13.9	54.6	63.5
MDS Mitigations + No HT	13.8	54.6	63.5

▼ Watts, Fewer Is Better



Dbench 4.0

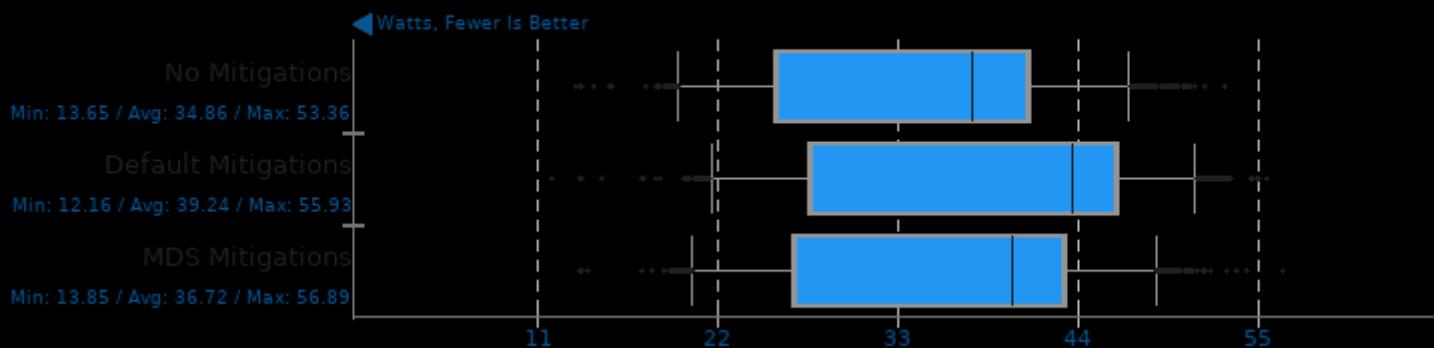
Client Count: 6



1. (CC) gcc options: -fno-optimize-sibling-calls

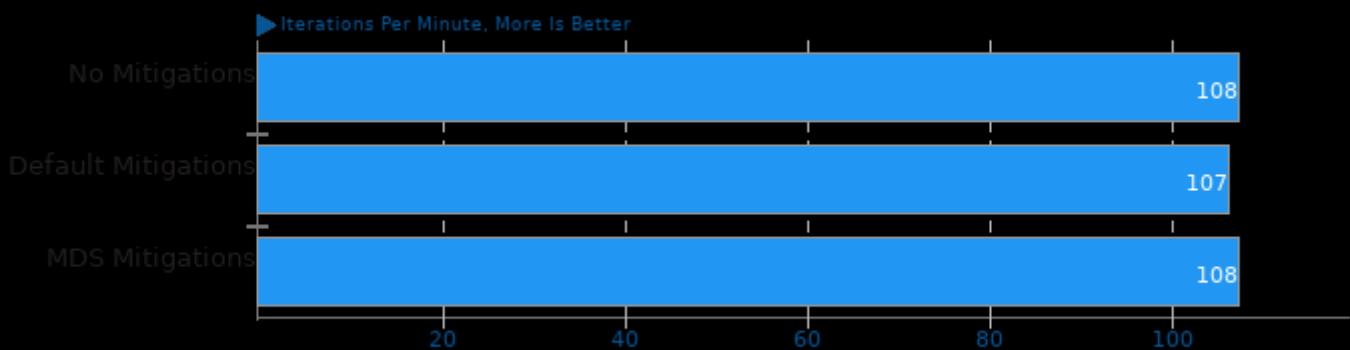
Dbench 4.0

CPU Power Consumption Monitor



GraphicsMagick 1.3.30

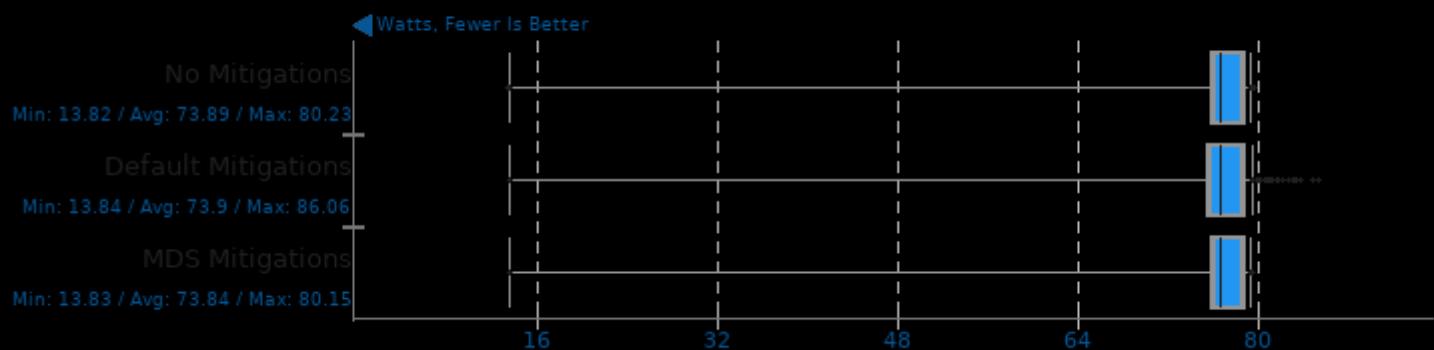
Operation: Enhanced



1. (CC) gcc options: -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -pthread

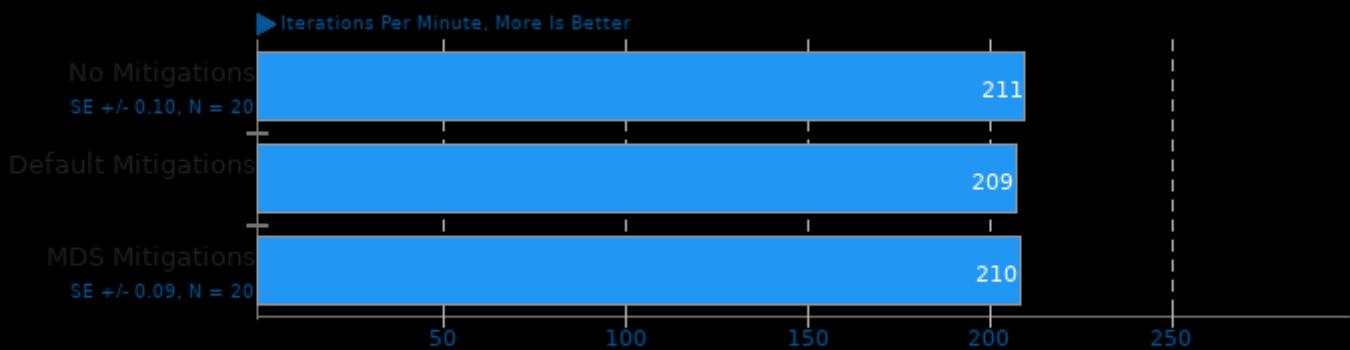
GraphicsMagick 1.3.30

CPU Power Consumption Monitor



GraphicsMagick 1.3.30

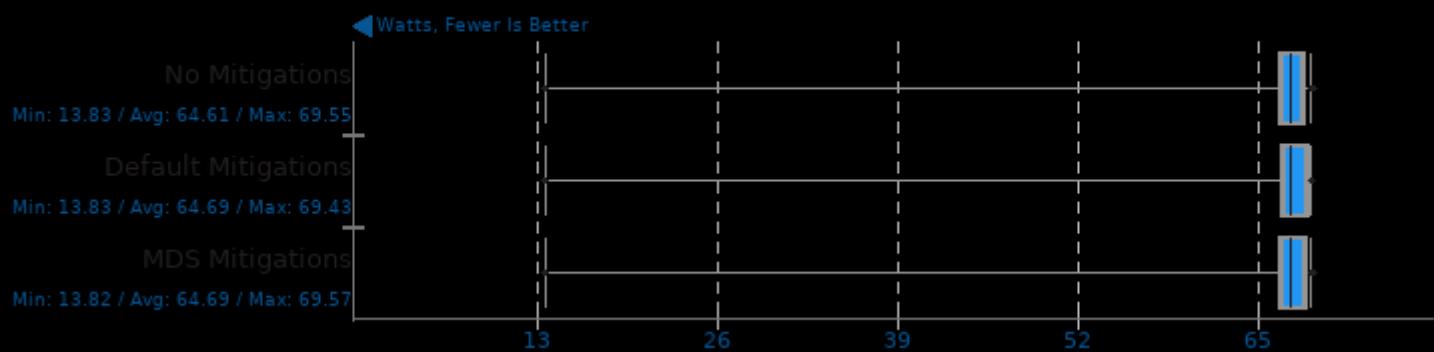
Operation: Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

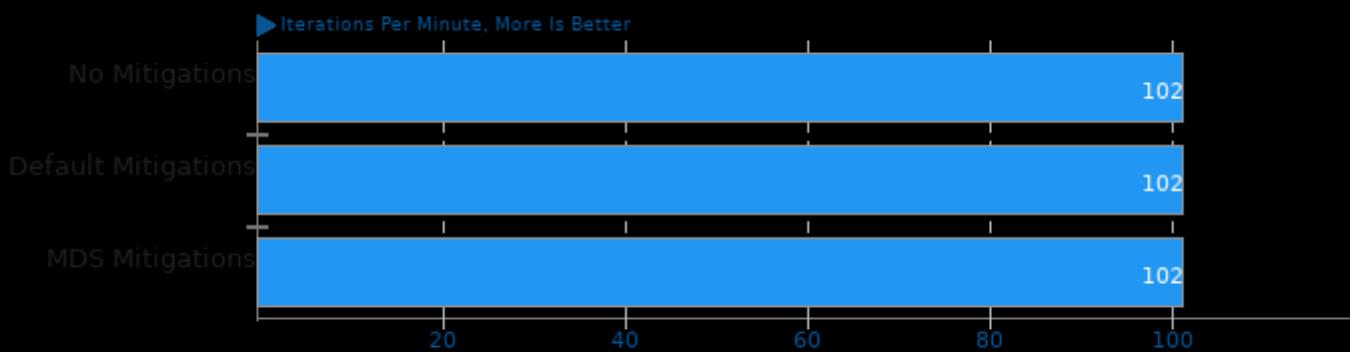
GraphicsMagick 1.3.30

CPU Power Consumption Monitor



GraphicsMagick 1.3.30

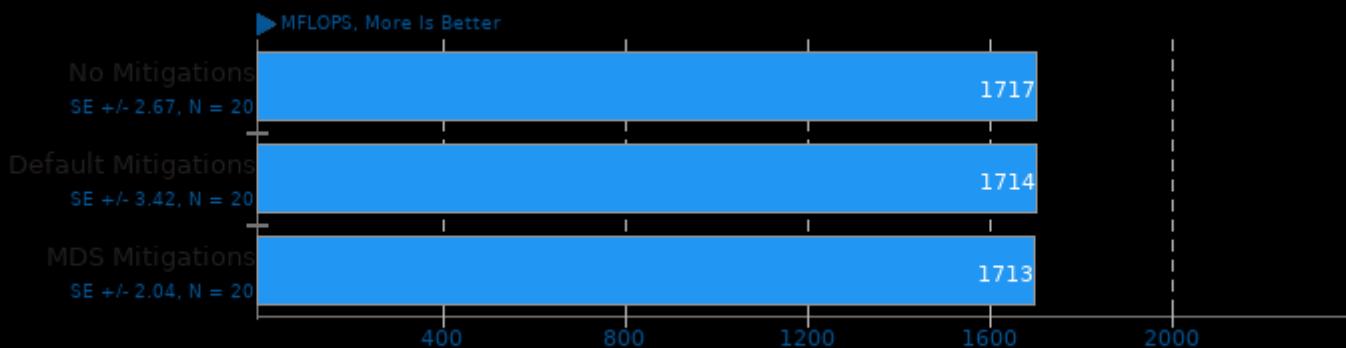
Operation: Sharpen



1. (CC) gcc options: -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

Himeno Benchmark 3.0

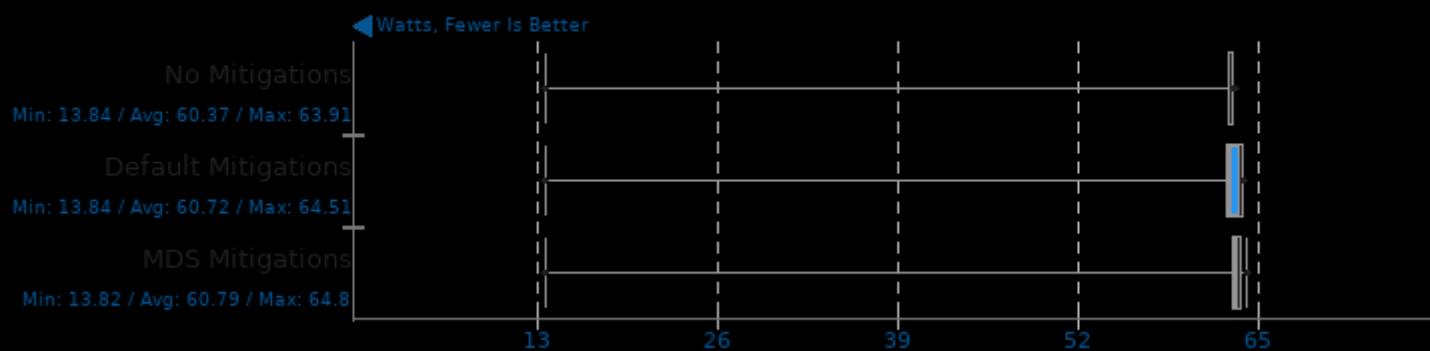
Poisson Pressure Solver



1. (CC) gcc options: -O3

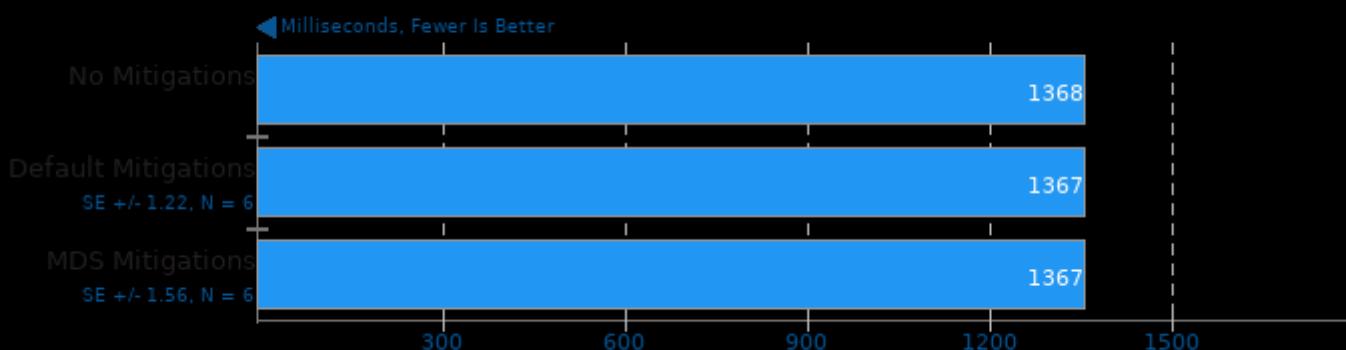
Himeno Benchmark 3.0

CPU Power Consumption Monitor



PyBench 2018-02-16

Total For Average Test Times

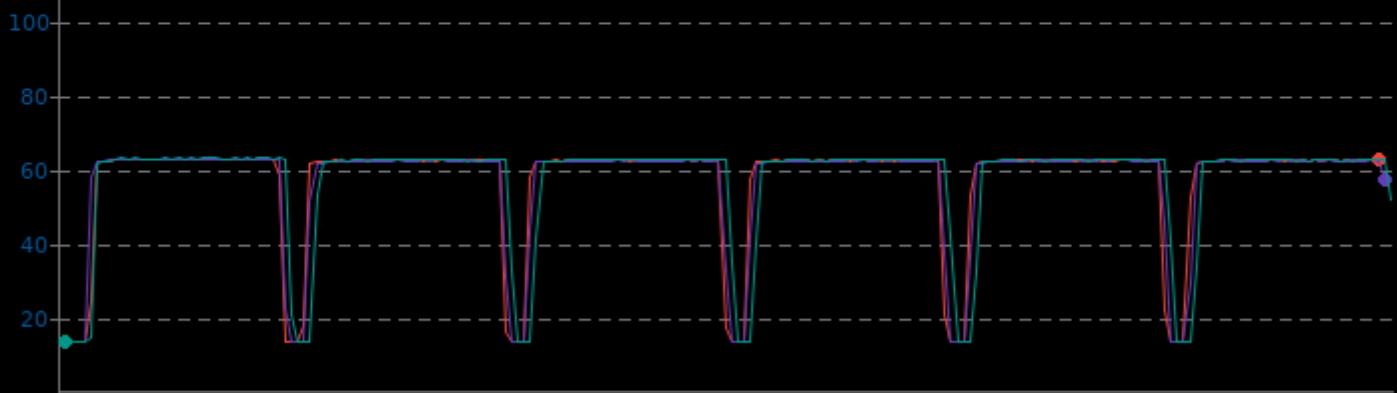


PyBench 2018-02-16

CPU Power Consumption Monitor

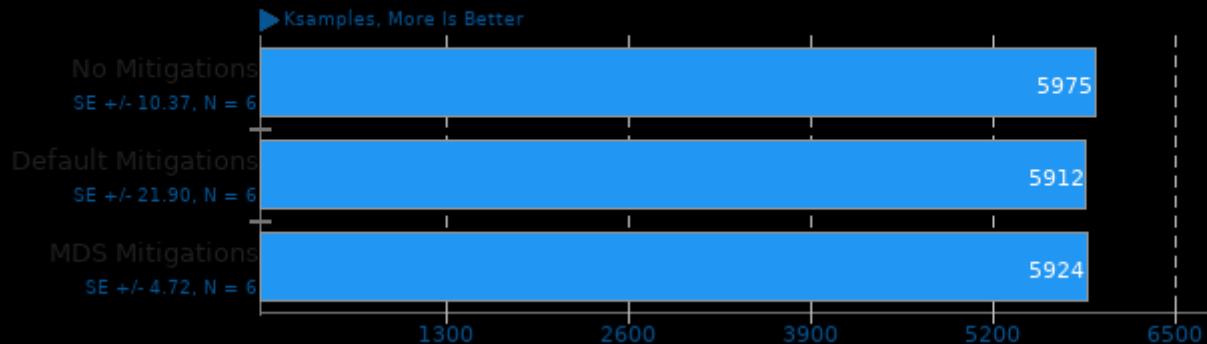
	Min	Avg	Max
No Mitigations	13.9	56.7	63.0
Default Mitigations	13.9	56.8	62.8
MDS Mitigations	13.9	56.7	63.1

▼ Watts, Fewer Is Better



Chaos Group V-RAY 4.10.03

Mode: CPU

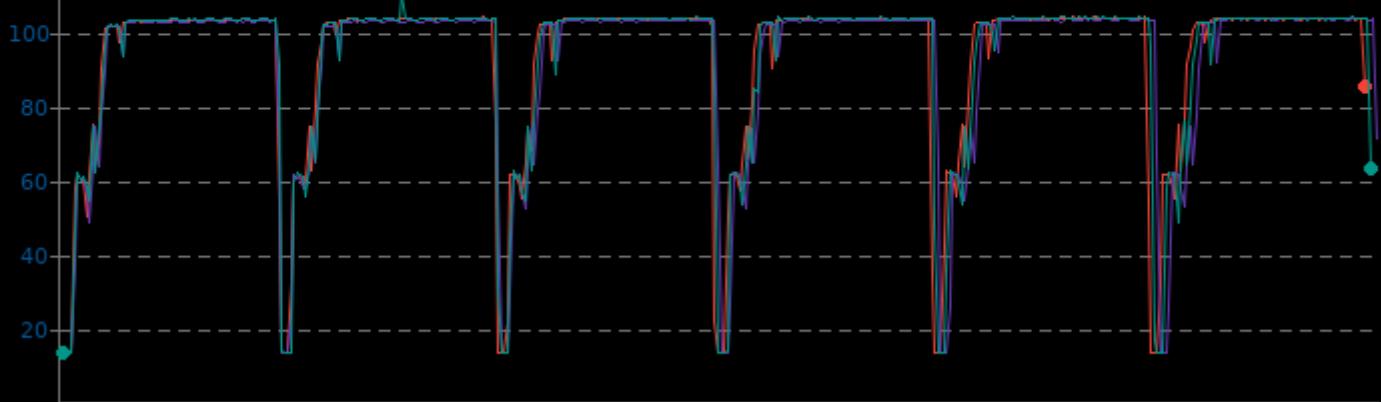


Chaos Group V-RAY 4.10.03

CPU Power Consumption Monitor

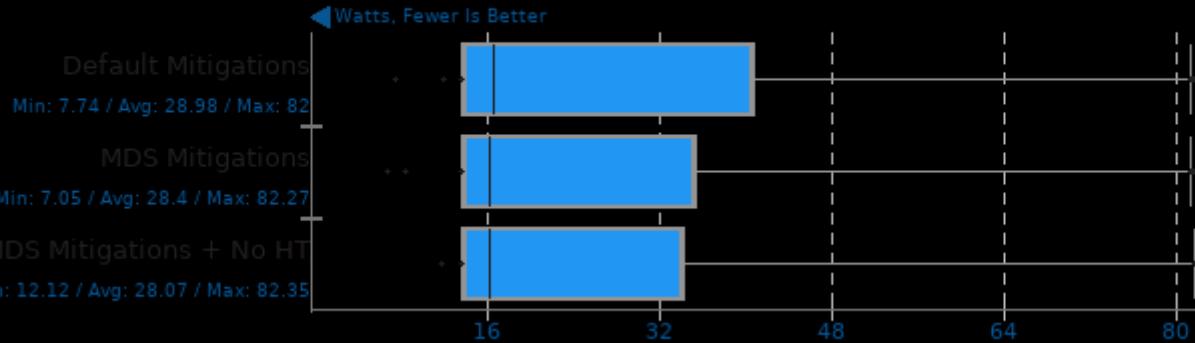
	Min	Avg	Max
No Mitigations	13.9	93.0	103.8
Default Mitigations	13.9	92.3	103.5
MDS Mitigations	13.9	92.9	109.7

▼ Watts, Fewer Is Better



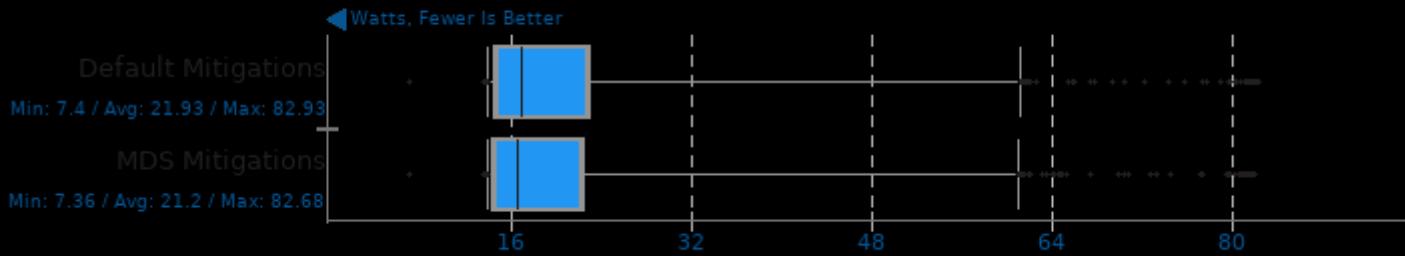
Selenium

CPU Power Consumption Monitor



Selenium

CPU Power Consumption Monitor

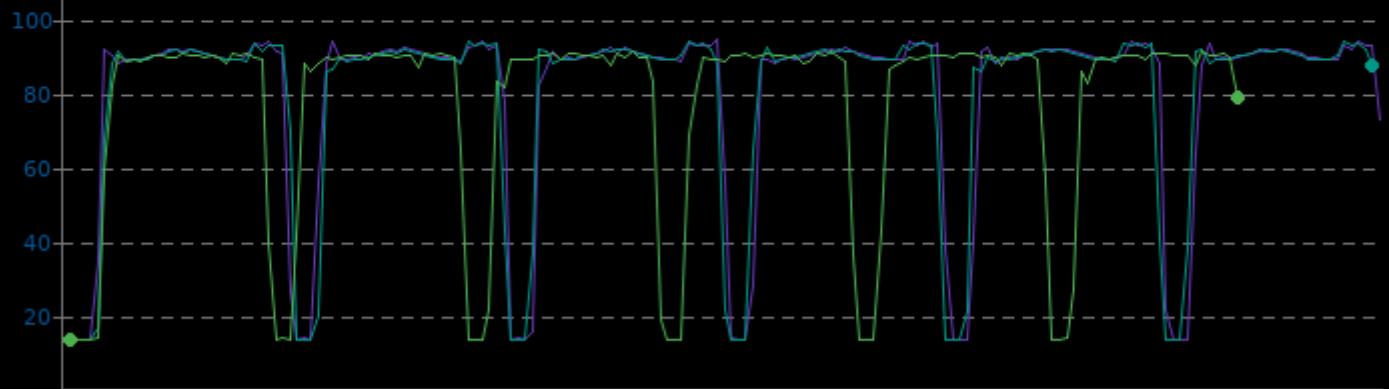


Darktable 2.4.2

CPU Power Consumption Monitor

	Min	Avg	Max
Default Mitigations	13.9	79.7	94.1
MDS Mitigations	13.9	79.3	93.7
MDS Mitigations + No HT	13.8	77.0	91.2

▼ Watts, Fewer Is Better

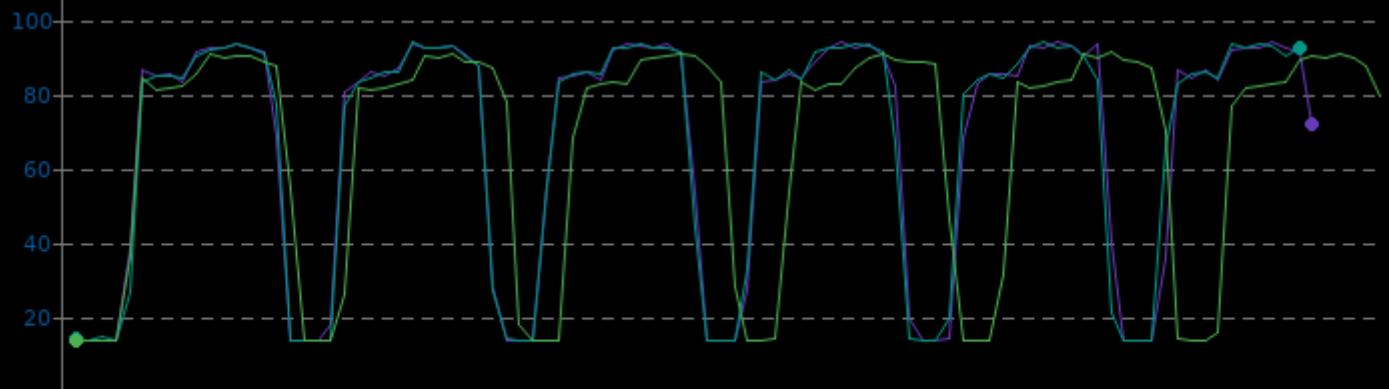


Darktable 2.4.2

CPU Power Consumption Monitor

	Min	Avg	Max
Default Mitigations	13.8	67.7	93.9
MDS Mitigations	13.8	67.5	93.7
MDS Mitigations + No HT	13.8	66.9	90.8

▼ Watts, Fewer Is Better

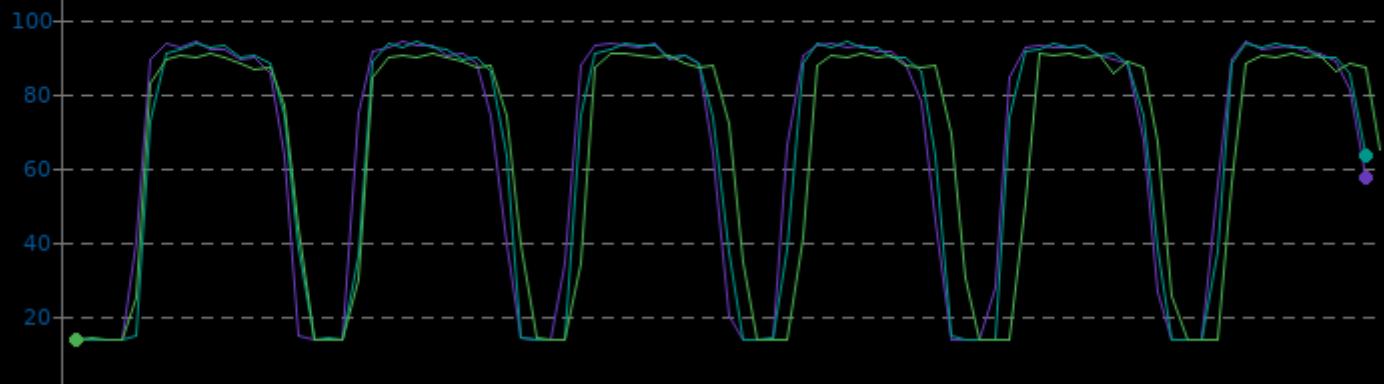


Darktable 2.4.2

CPU Power Consumption Monitor

	Min	Avg	Max
Default Mitigations	13.9	66.2	93.6
MDS Mitigations	13.9	65.9	93.6
MDS Mitigations + No HT	13.9	65.1	90.6

▼ Watts, Fewer Is Better

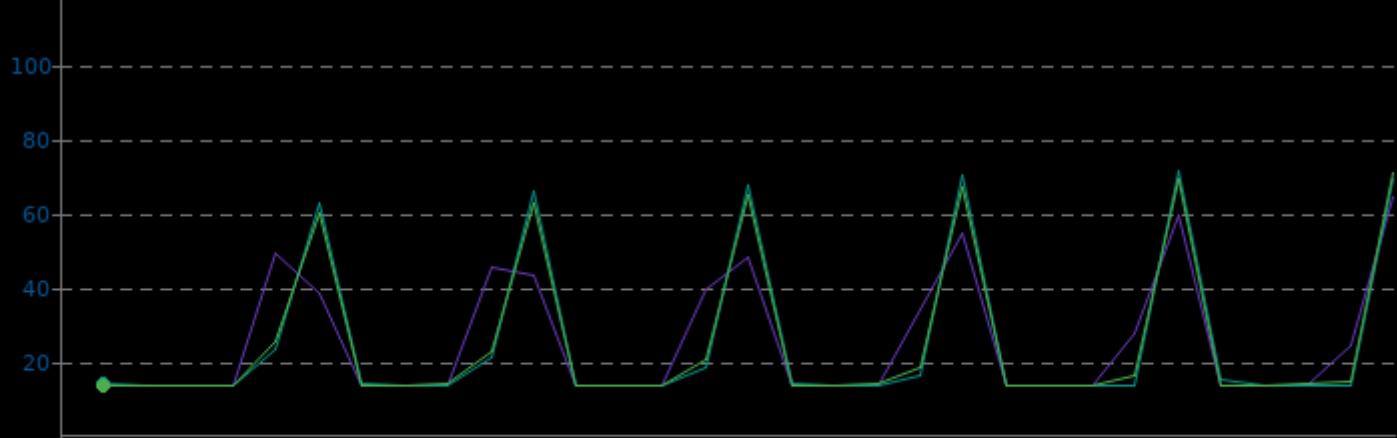


Darktable 2.4.2

CPU Power Consumption Monitor

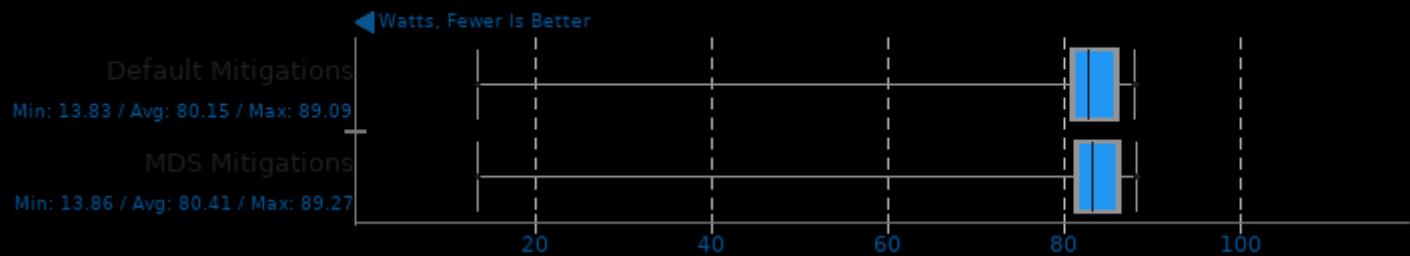
	Min	Avg	Max
Default Mitigations	13.9	25.6	64.1
MDS Mitigations	13.9	25.3	71.5
MDS Mitigations + No HT	13.9	25.2	70.5

▼ Watts, Fewer Is Better



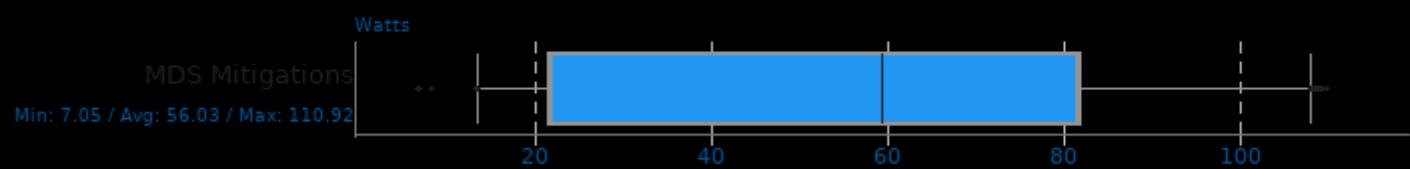
GraphicsMagick 1.3.30

CPU Power Consumption Monitor

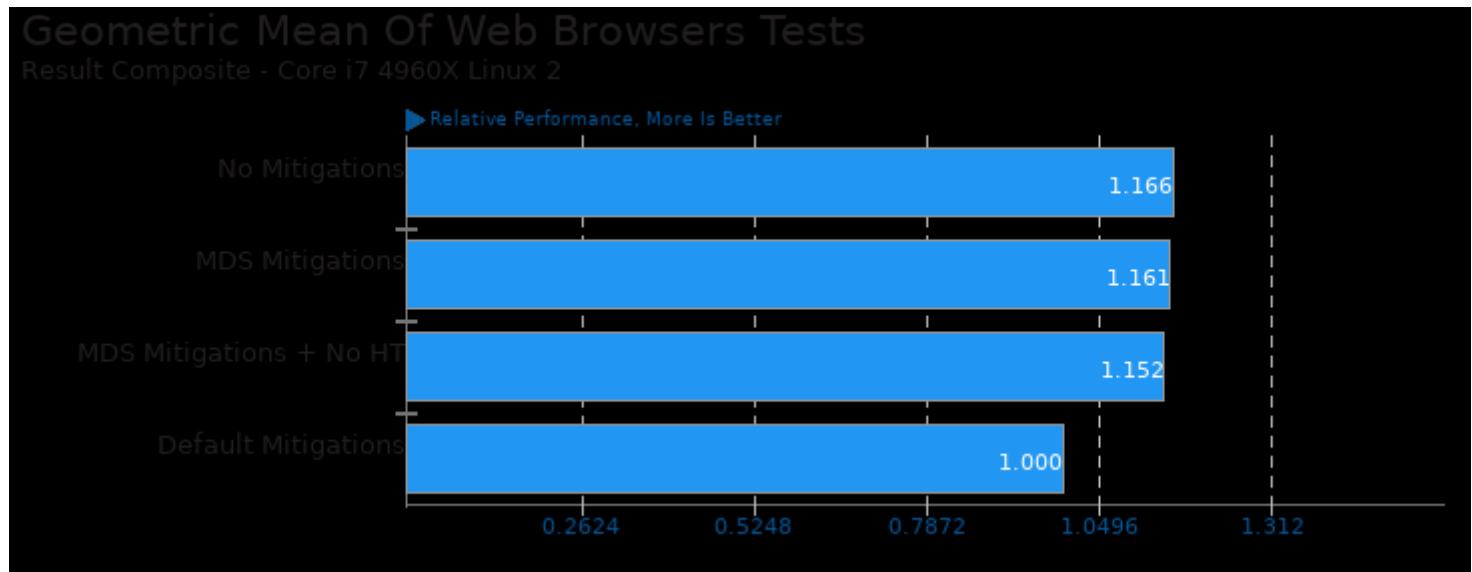


CPU Power Consumption Monitor

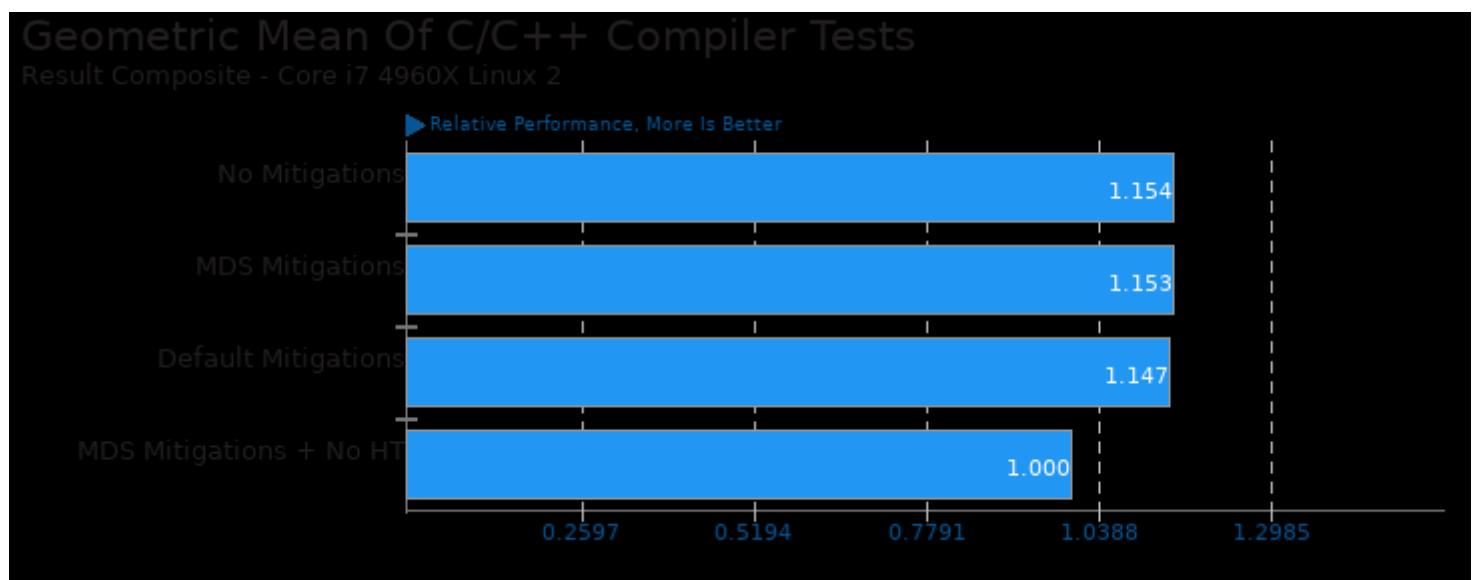
Phoronix Test Suite System Monitoring



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



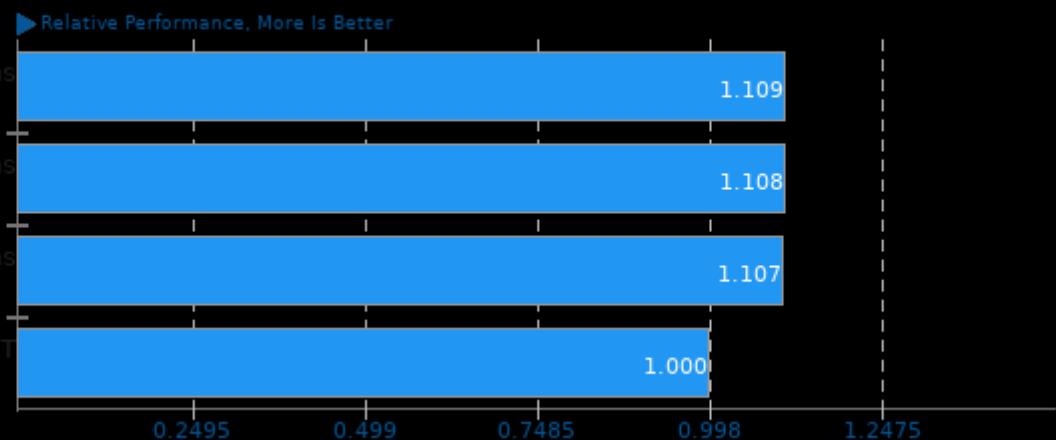
Geometric mean based upon tests: system/selenium



Geometric mean based upon tests: pts/graphics-magick, pts/himeno, pts/stockfish, pts/build-llvm, pts/x264, pts/compress-xz and pts/compress-zstd

Geometric Mean Of Compression Tests

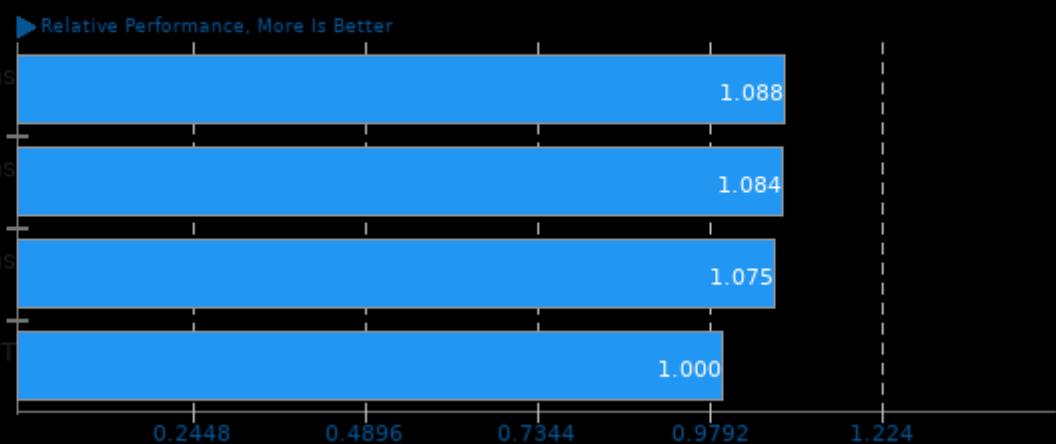
Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/compress-zstd and pts/compress-xz

Geometric Mean Of CPU Massive Tests

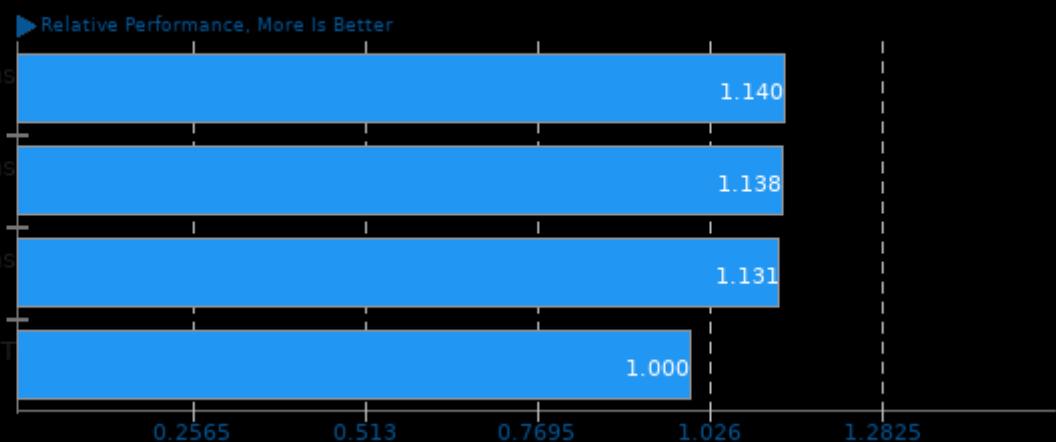
Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/build-llvm, pts/compress-xz, pts/compress-zstd, pts/x264, pts/go-benchmark, pts/graphics-magick, pts/himeno, pts/phpbench, pts/scikit-learn, pts/stockfish, pts/v-ray, pts/blender and system/darktable

Geometric Mean Of Creator Workloads Tests

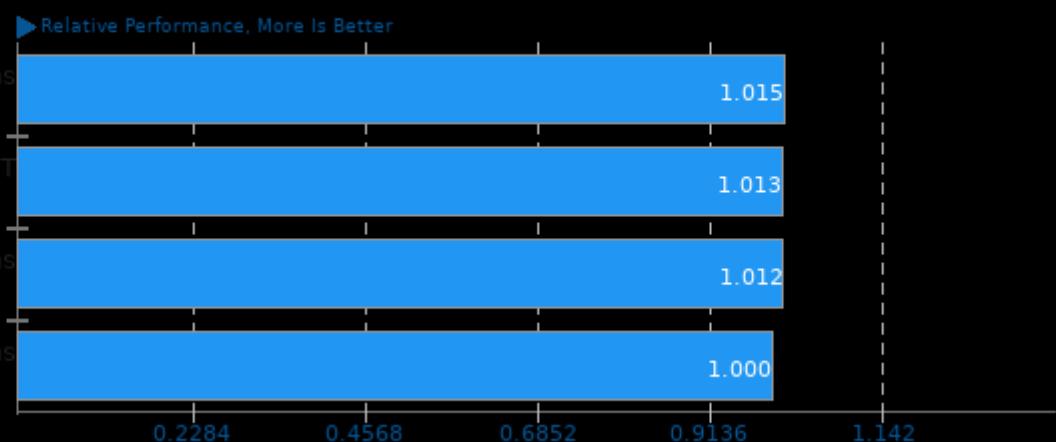
Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/blender, pts/v-ray, pts/indigobench, pts/x264, pts/graphics-magick and system/darktable

Geometric Mean Of Imaging Tests

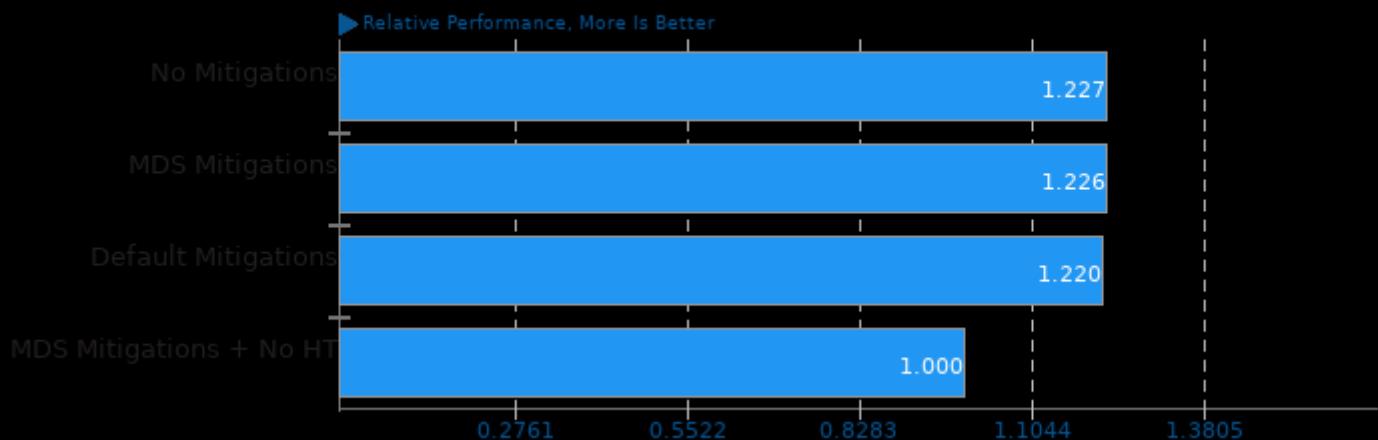
Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/graphics-magick and system/darktable

Geometric Mean Of Multi-Core Tests

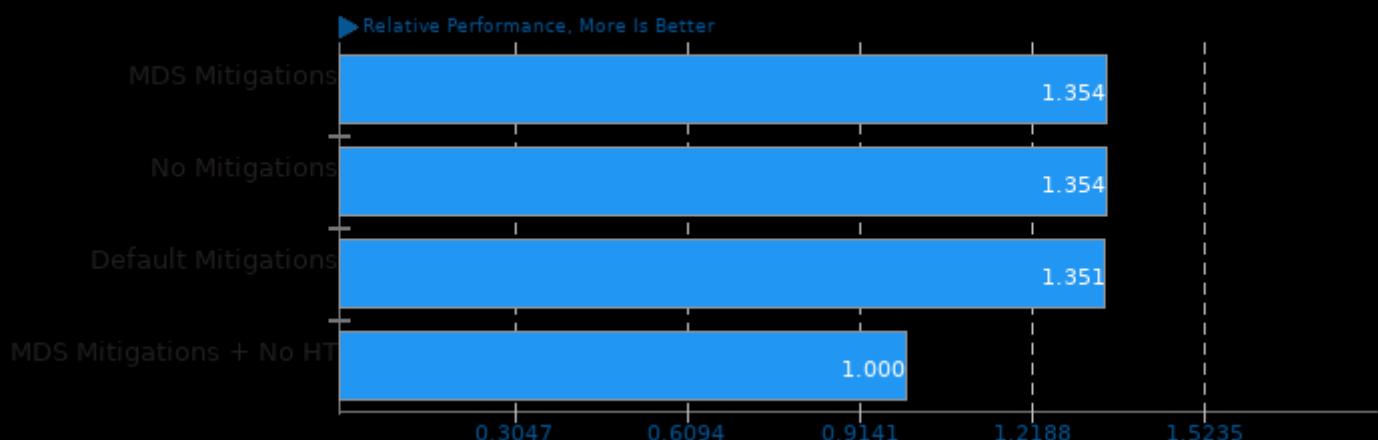
Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/blender, pts/stockfish, pts/x264, pts/graphics-magick, pts/compress-zstd, pts/build-llvm, pts/v-ray and pts/indigobench

Geometric Mean Of NVIDIA GPU Compute Tests

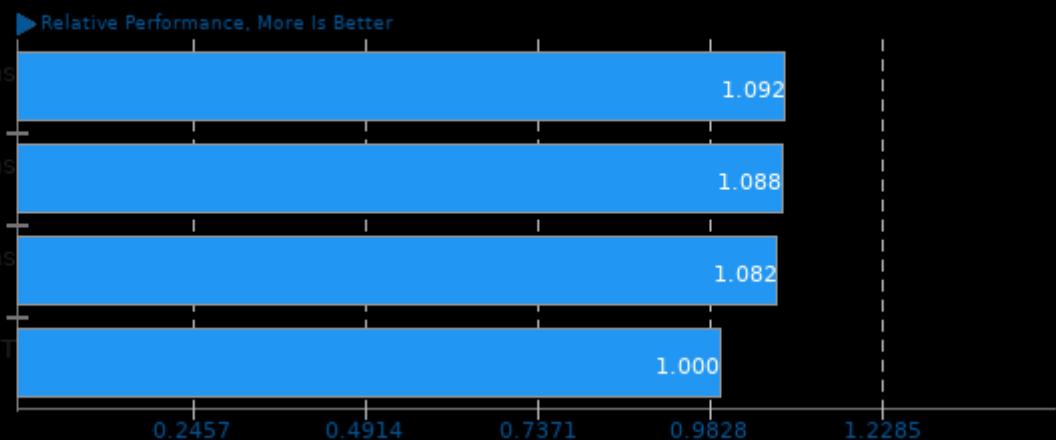
Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/indigobench, pts/v-ray and pts/blender

Geometric Mean Of Programmer / Developer System Benchmarks Tests

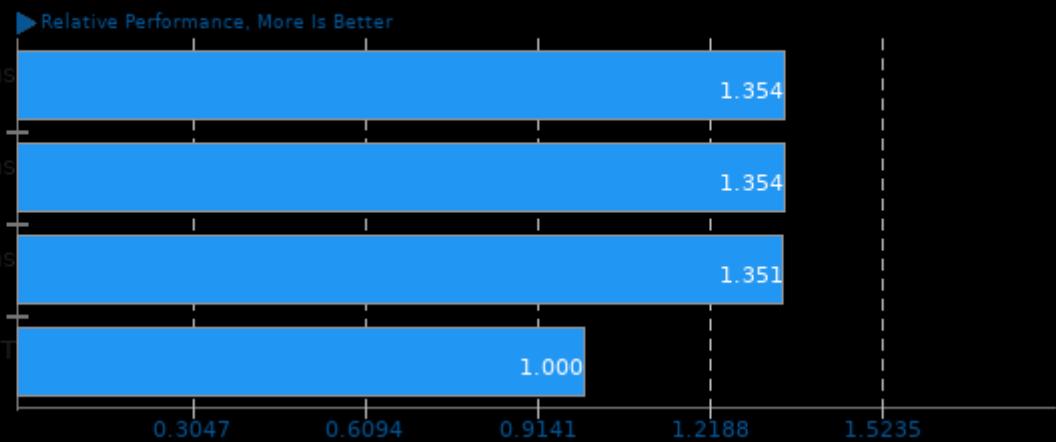
Result Composite - Core i7 4960X Linux 2



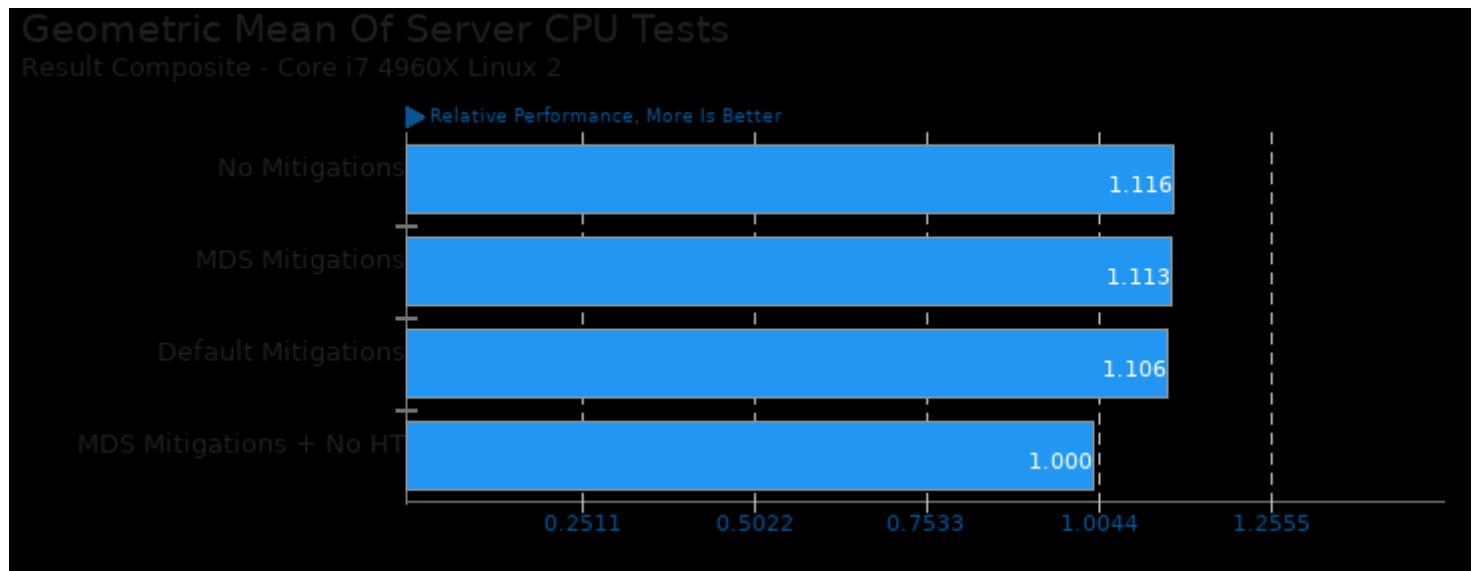
Geometric mean based upon tests: pts/compress-zstd, pts/pybench and pts/build-llvm

Geometric Mean Of Renderers Tests

Result Composite - Core i7 4960X Linux 2



Geometric mean based upon tests: pts/blender, pts/v-ray and pts/indigobench



Geometric mean based upon tests: pts/x264, pts/himeno, pts/stockfish, pts/build-llvm, pts/compress-zstd, pts/blender, pts/pybench, pts/phpbench and pts/scikit-learn

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:08.