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Threadripper 2970WX Linux

AMD Ryzen Threadripper 2970WX 24-Core testing with a Gigabyte X399 AORUS Gaming 7 (F12h BIOS) and Sapphire AMD Radeon RX 550 640SP / 560/560X 4GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Threadripper 2970WX

Processor: AMD Ryzen Threadripper 2970WX 24-Core @ 3.00GHz (24 Cores / 48 Threads), Motherboard: Gigabyte X399 AORUS Gaming 7 (F12h BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: 120GB Force MP500, Graphics: Sapphire AMD Radeon RX 550 640SP / 560/560X 4GB (1300/1750MHz), Audio: Realtek ALC1220, Monitor: DELL S2409W, Network: Qualcomm Atheros Killer E2500 + 2 x QLogic cLOM8214 1/10GbE + Intel 8265 / 8275

OS: Ubuntu 20.04, Kernel: 5.5.0-rc7-phx-k10temp6 (x86_64) 20200123, Desktop: GNOME Shell 3.36.1, Display Server: X Server 1.20.7, Display Driver: modesetting 1.20.7, OpenGL: 4.6 Mesa 20.0.4 (LLVM 9.0.1), Compiler: GCC 9.3.0, 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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch

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```
--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: acpi-cpufreq ondemand - CPU Microcode: 0x800820d
Java Notes: OpenJDK Runtime Environment (build 11.0.7+ea+9-post-Ubuntu-1ubuntu1)
Python Notes: Python 3.8.2
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + tsx_async_abort: Not affected
```

Threadripper 2970WX

LeelaChessZero - Rand (Nodes/s)	117749
Standard Deviation	13.2%
DaCapo Benchmark - Tradesoap (msec)	5288
Standard Deviation	4.3%
LeelaChessZero - BLAS (Nodes/s)	414
Standard Deviation	26.5%
Montage Astronomical Image Mosaic Engine - M.o.M.K.b.1.5.d.x.1.5.d (sec)	89.500
Standard Deviation	2.7%
Blender - Barbershop - CPU-Only (sec)	380.38
Standard Deviation	0.4%
LeelaChessZero - Eigen (Nodes/s)	528
Standard Deviation	2.7%
Blender - Pabellon Barcelona - CPU-Only (sec)	338.25
Standard Deviation	0.5%
LuxCoreRender - DLSC (M samples/sec)	3.49
Standard Deviation	2.7%
G'MIC - 2.F.P.1.T (sec)	256.248
Standard Deviation	1.5%
Blender - Classroom - CPU-Only (sec)	241.71
Standard Deviation	0.8%
SVT-AV1 - Enc Mode 0 - 1080p (FPS)	0.103
Standard Deviation	0.6%
Zstd Compression - 3 (MB/s)	2995
Standard Deviation	14.4%
Stress-NG - MMAP (Bogo Ops/s)	129.91
Standard Deviation	4.9%
Stress-NG - CPU Cache (Bogo Ops/s)	60.46
Standard Deviation	6.7%
DaCapo Benchmark - Tradebeans (msec)	6583
Standard Deviation	1.5%
Blender - Fishy Cat - CPU-Only (sec)	139.82
Standard Deviation	0.6%
dav1d - C.1.1.b (FPS)	103.63
Standard Deviation	0.5%
Rodinia - O.S (sec)	24.897
Standard Deviation	8.6%
Stress-NG - Memory Copying (Bogo Ops/s)	2963
Standard Deviation	4.4%
Rodinia - OpenMP LavaMD (sec)	117.286
Standard Deviation	0.1%

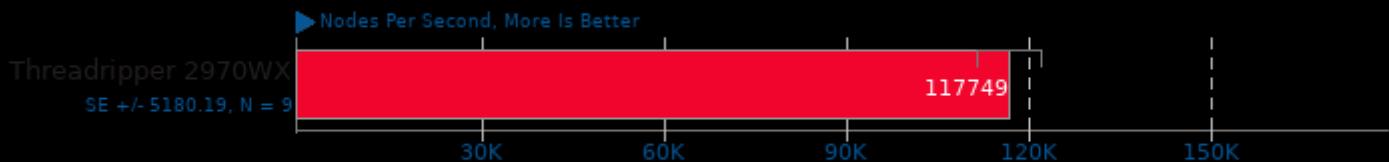
Rodinia - OpenMP HotSpot3D (sec)	106.857
Standard Deviation	1.6%
C-Blosc - blosclz (MB/s)	7839
Standard Deviation	1%
YafaRay - T.T.F.S.S (sec)	99.233
Standard Deviation	0.6%
PyPerformance - raytrace (Milliseconds)	570
Standard Deviation	0.3%
Blender - BMW27 - CPU-Only (sec)	93.25
Standard Deviation	0.2%
G'MIC - 3.E.F.I.R.C.1.T (sec)	88.618
Standard Deviation	0.3%
Build2 - Time To Compile (sec)	84.822
Standard Deviation	1.6%
Timed Linux Kernel Compilation - Time To Compile (sec)	50.502
Standard Deviation	2.8%
PyPerformance - python_startup (Milliseconds)	14.0
Standard Deviation	0.4%
libavif avifenc - 0 (sec)	77.314
Standard Deviation	1.8%
Zstd Compression - 19 (MB/s)	41.0
Standard Deviation	2.4%
PyPerformance - 2to3 (Milliseconds)	372
Chaos Group V-RAY - CPU (Ksamples)	25794
Standard Deviation	1.1%
DaCapo Benchmark - H2 (msec)	4878
Standard Deviation	3.8%
Rodinia - OpenMP Leukocyte (sec)	64.854
Standard Deviation	2.8%
LuxCoreRender - R.C.a.P (M samples/sec)	3.68
Standard Deviation	1.3%
PyPerformance - go (Milliseconds)	290
Standard Deviation	0.4%
oneDNN - IP Batch All - u8s8f32 - CPU (ms)	37.6915
Standard Deviation	2.2%
oneDNN - IP Batch All - f32 - CPU (ms)	73.2862
Standard Deviation	0.7%
Hugin - P.P.A.S.T (sec)	51.945
Standard Deviation	0.9%
libavif avifenc - 2 (sec)	46.289
Standard Deviation	0.9%
AOM AV1 - Speed 0 Two-Pass (FPS)	0.23
Standard Deviation	2.5%
AOM AV1 - Speed 6 Realtime (FPS)	14.14
Standard Deviation	1%
PyPerformance - regex_compile (Milliseconds)	191
oneDNN - R.N.N.T - f32 - CPU (ms)	382.577
Standard Deviation	2.2%
oneDNN - R.N.N.I - f32 - CPU (ms)	86.5963
Standard Deviation	0.8%
PyPerformance - pickle_pure_python (Milliseconds)	588
Standard Deviation	0.3%
AOM AV1 - Speed 6 Two-Pass (FPS)	3.00

PyPerformance - pathlib (Milliseconds)	20.0	Standard Deviation 0.7%
Tesseract OCR - T.T.O.7.I (sec)	30.829	Standard Deviation 0.6%
PyPerformance - django_template (Milliseconds)	67.4	Standard Deviation 0.8%
Stress-NG - CPU Stress (Bogo Ops/s)	8266	Standard Deviation 0.1%
Stress-NG - Atomic (Bogo Ops/s)	271413	Standard Deviation 1.4%
Stress-NG - NUMA (Bogo Ops/s)	485.22	Standard Deviation 0.1%
Stress-NG - S.V.M.P (Bogo Ops/s)	12667682	Standard Deviation 1.2%
Stress-NG - Matrix Math (Bogo Ops/s)	110040	Standard Deviation 0.3%
Stress-NG - SENDFILE (Bogo Ops/s)	341330	Standard Deviation 0.6%
Stress-NG - Crypto (Bogo Ops/s)	5041	Standard Deviation 2.5%
Stress-NG - G.Q.D.S (Bogo Ops/s)	315.72	Standard Deviation 2.6%
Stress-NG - Vector Math (Bogo Ops/s)	165697	Standard Deviation 2.4%
Stress-NG - Malloc (Bogo Ops/s)	225795409	Standard Deviation 0.3%
Stress-NG - G.C.S.F (Bogo Ops/s)	2195829	Standard Deviation 0.1%
Stress-NG - MEMFD (Bogo Ops/s)	1659	Standard Deviation 1.4%
Stress-NG - Context Switching (Bogo Ops/s)	12122712	Standard Deviation 0.5%
Stress-NG - Socket Activity (Bogo Ops/s)	14637	Standard Deviation 1.5%
Stress-NG - Semaphores (Bogo Ops/s)	4283225	Standard Deviation 1.6%
Stress-NG - Forking (Bogo Ops/s)	60233	Standard Deviation 0.1%
PyPerformance - json.loads (Milliseconds)	29.0	Standard Deviation 1.4%
PyPerformance - nbody (Milliseconds)	145	Standard Deviation 0.2%
PyPerformance - chaos (Milliseconds)	133	Standard Deviation 0.8%
Timed Apache Compilation - Time To Compile (sec)	25.701	Standard Deviation 0.3%
AOM AV1 - Speed 4 Two-Pass (FPS)	1.86	Standard Deviation 0.6%
oneDNN - IP Batch 1D - f32 - CPU (ms)	6.62625	Standard Deviation 2.9%
dav1d - Chimera 1080p (FPS)	479.32	Standard Deviation 0.3%
PyPerformance - float (Milliseconds)	123	

	Standard Deviation	1.9%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	144.05	
	Standard Deviation	7.6%
PyPerformance - crypto_pyaes (Milliseconds)	122	
	Standard Deviation	0.8%
AOM AV1 - Speed 8 Realtime (FPS)	26.36	
	Standard Deviation	2.2%
G'MIC - P.I.O.A.3.V.1.T (sec)	22.134	
	Standard Deviation	1.9%
OCRMyPDF - P.6.P.P.D (sec)	21.601	
	Standard Deviation	1.7%
oneDNN - D.B.d - u8s8f32 - CPU (ms)	8.28328	
	Standard Deviation	1.1%
oneDNN - D.B.d - f32 - CPU (ms)	3.68311	
	Standard Deviation	2.8%
SVT-AV1 - Enc Mode 4 - 1080p (FPS)	4.640	
	Standard Deviation	1.1%
dav1d - Summer Nature 4K (FPS)	189.29	
	Standard Deviation	0.5%
oneDNN - IP Batch 1D - u8s8f32 - CPU (ms)	3.09048	
	Standard Deviation	1.3%
GNU Octave Benchmark (sec)	7.798	
	Standard Deviation	1.1%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	1.41831	
	Standard Deviation	2%
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	1.57541	
	Standard Deviation	0.6%
SVT-AV1 - Enc Mode 8 - 1080p (FPS)	40.720	
	Standard Deviation	0.5%
Rodinia - OpenMP CFD Solver (sec)	10.222	
	Standard Deviation	1.1%
DaCapo Benchmark - Jython (msec)	5166	
	Standard Deviation	0.7%
dav1d - S.N.1 (FPS)	503.61	
	Standard Deviation	0.4%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	22.8045	
	Standard Deviation	0.6%
oneDNN - C.B.S.A - f32 - CPU (ms)	20.0117	
	Standard Deviation	0%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	146.53	
	Standard Deviation	2.9%
libavif avifenc - 8 (sec)	5.854	
	Standard Deviation	0.8%
libavif avifenc - 10 (sec)	5.646	
	Standard Deviation	1.4%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	151.67	
	Standard Deviation	2.3%
oneDNN - D.B.d - u8s8f32 - CPU (ms)	5.97184	
	Standard Deviation	0.2%
oneDNN - D.B.d - f32 - CPU (ms)	7.55695	
	Standard Deviation	0.1%

LeelaChessZero 0.25

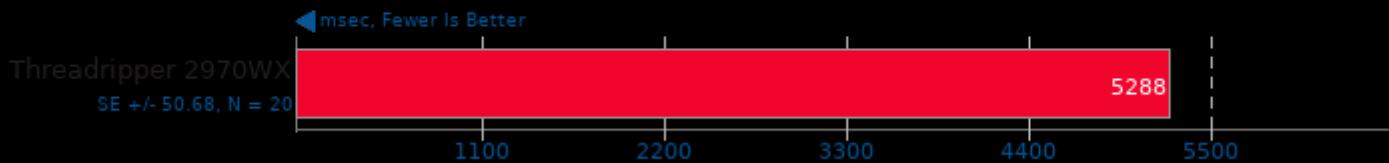
Backend: Random



l. (CXX) g++ options: -pthread

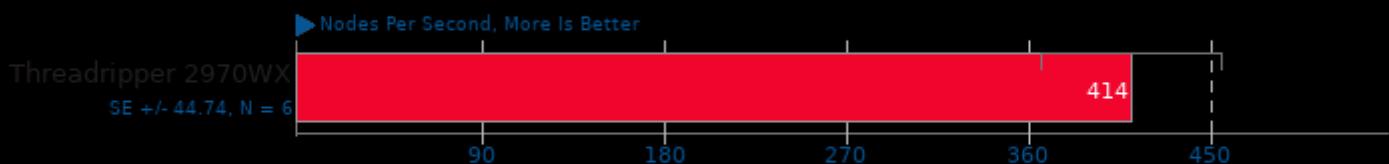
DaCapo Benchmark 9.12-MR1

Java Test: Tradessoap



LeelaChessZero 0.25

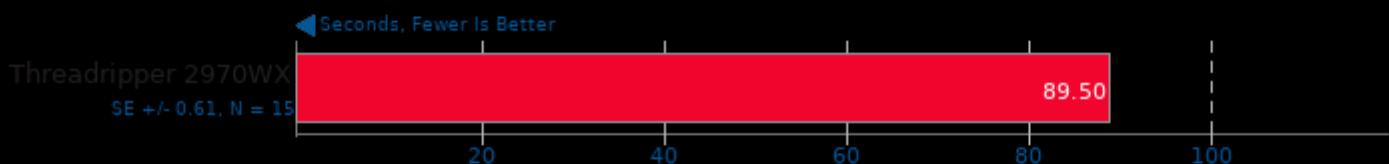
Backend: BLAS



l. (CXX) g++ options: -pthread

Montage Astronomical Image Mosaic Engine 6.0

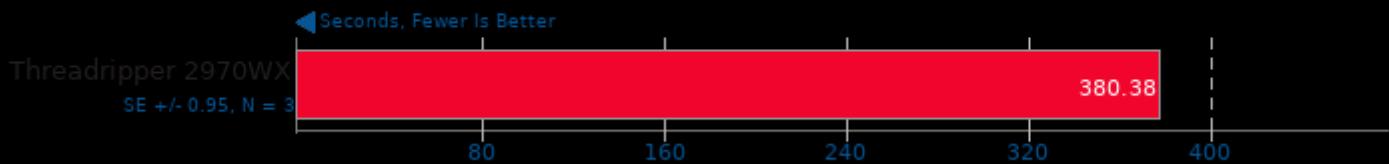
Mosaic of M17, K band, 1.5 deg x 1.5 deg



l. (CC) gcc options: -std=gnu99 -lfitsio -lm -O2

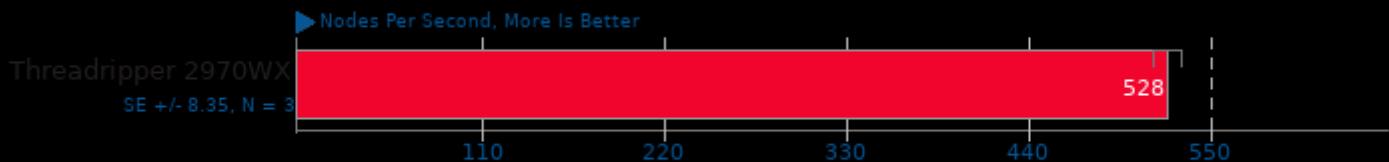
Blender 2.82

Blend File: Barbershop - Compute: CPU-Only



LeelaChessZero 0.25

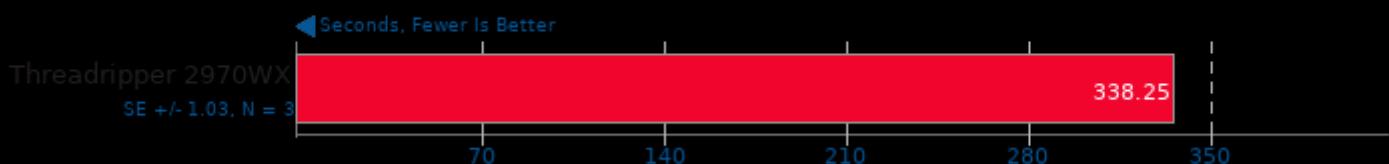
Backend: Eigen



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

Blender 2.82

Blend File: Pabellon Barcelona - Compute: CPU-Only



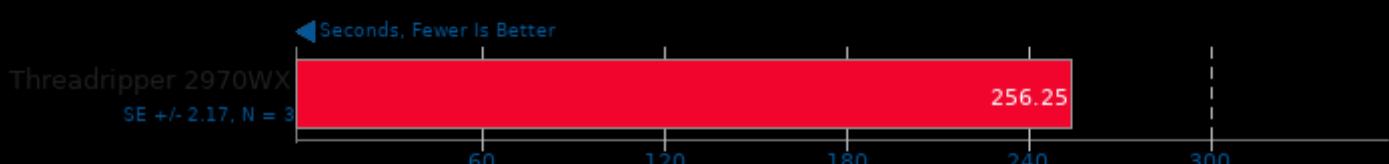
LuxCoreRender 2.3

Scene: DLSC



G'MIC

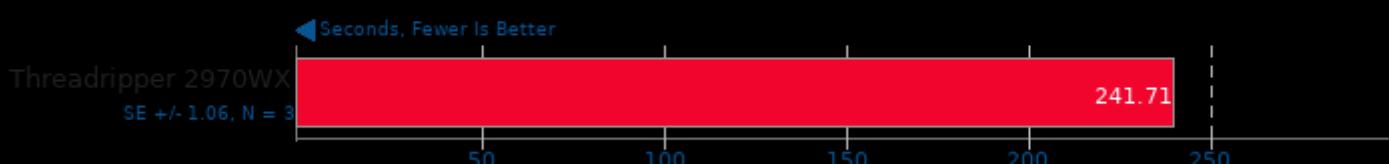
Test: 2D Function Plotting, 1000 Times



1. Version 2.4.5, Copyright (c) 2008-2019, David Tschumperle.

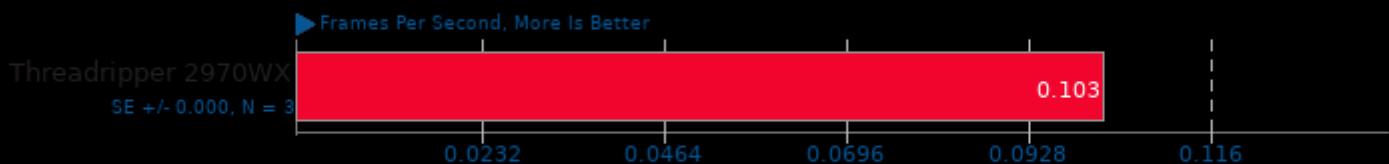
Blender 2.82

Blend File: Classroom - Compute: CPU-Only



SVT-AV1 0.8

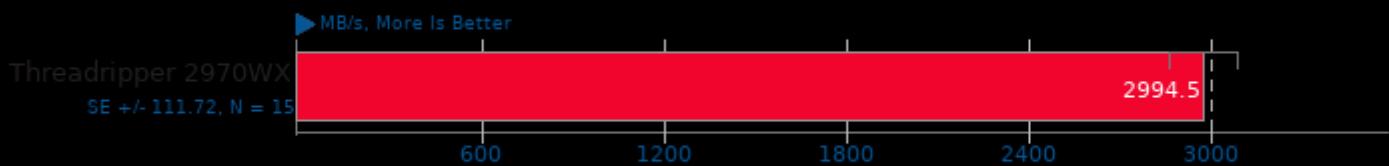
Encoder Mode: Enc Mode 0 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

Zstd Compression 1.4.5

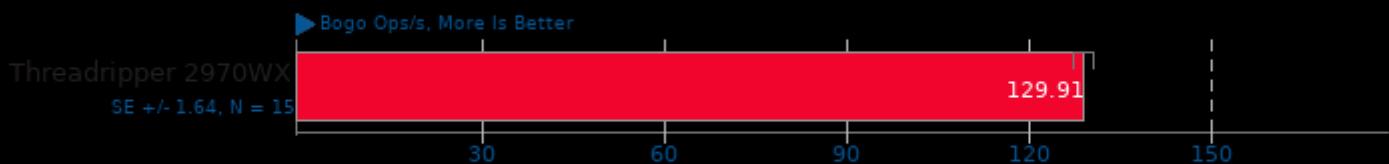
Compression Level: 3



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

Stress-NG 0.11.07

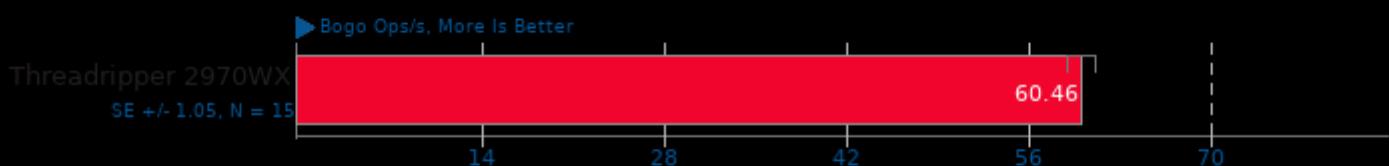
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

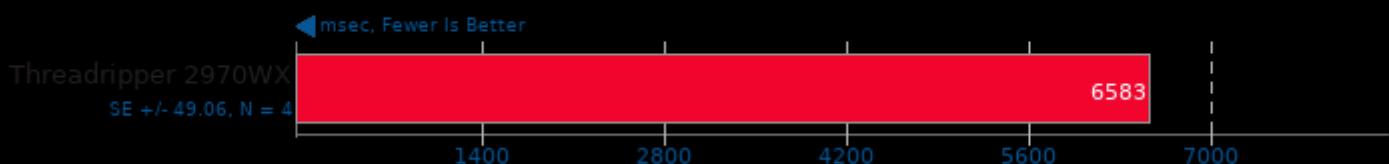
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

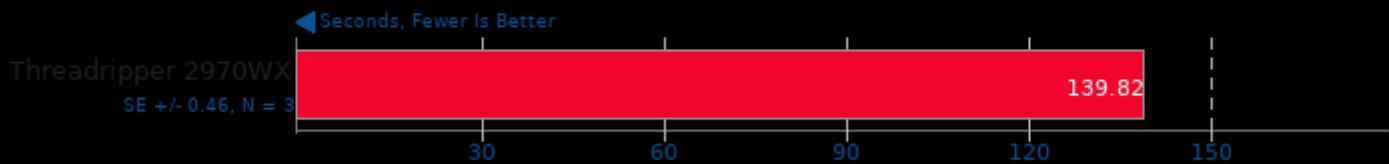
DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



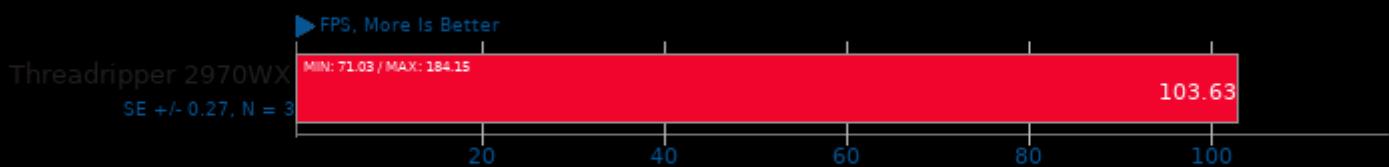
Blender 2.82

Blend File: Fishy Cat - Compute: CPU-Only



dav1d 0.7.0

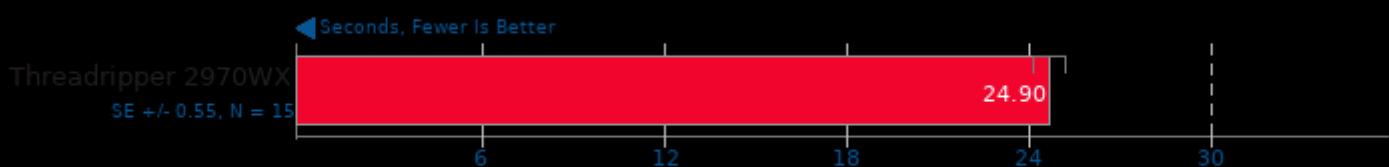
Video Input: Chimera 1080p 10-bit



l. (CC) gcc options: -pthread

Rodinia 3.1

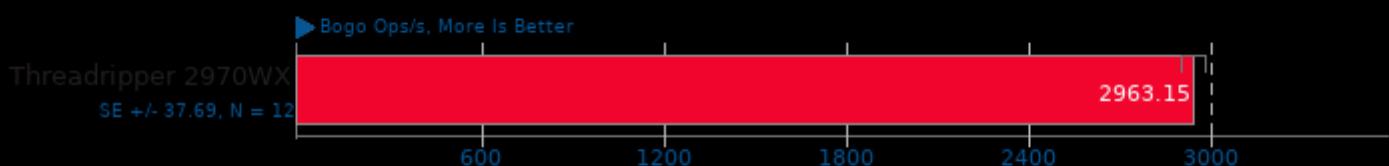
Test: OpenMP Streamcluster



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

Stress-NG 0.11.07

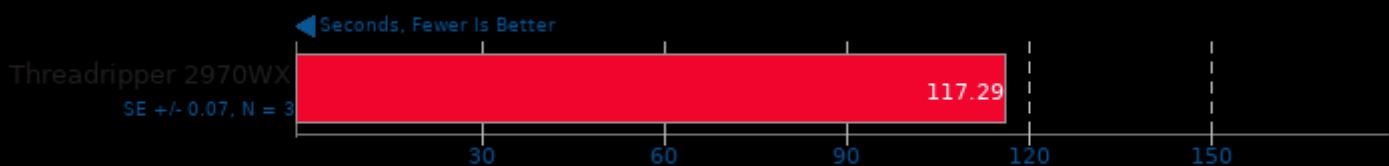
Test: Memory Copying



l. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Rodinia 3.1

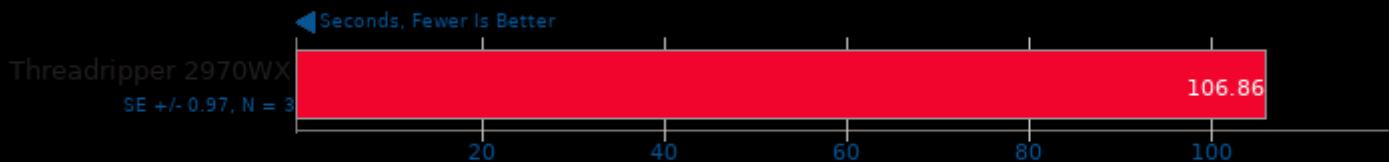
Test: OpenMP LavaMD



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

Rodinia 3.1

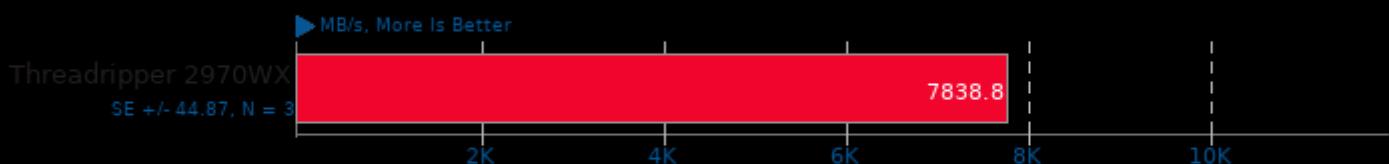
Test: OpenMP HotSpot3D



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

C-Blosc 2.0 Beta 5

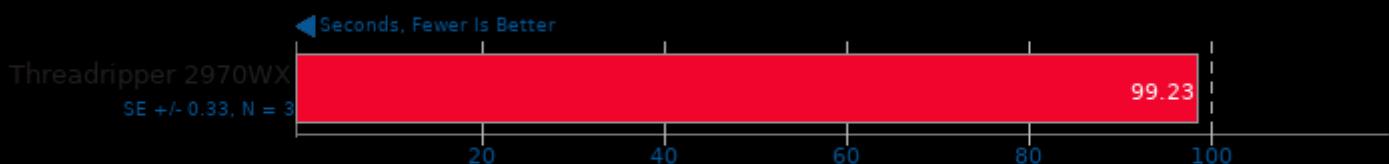
Compressor: blosclz



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

YafaRay 3.4.1

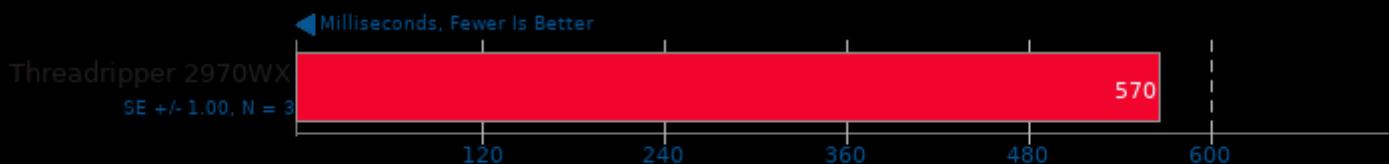
Total Time For Sample Scene



1. (CXX) g++ options: -std=c++11 -O3 -ffast-math -rdynamic -ldl -lmath -lImath -lImImf -lIm -lHalf -lz -lImThread -lxml2 -lfreetype -lpthread

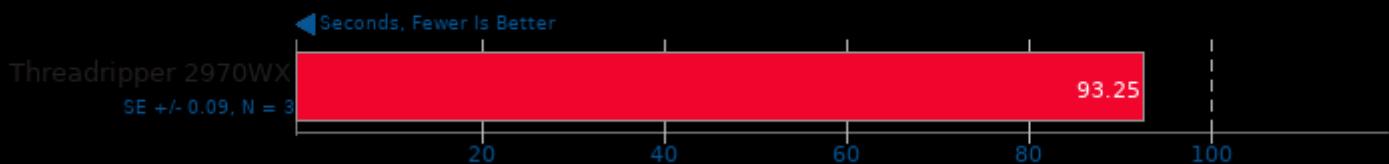
PyPerformance 1.0.0

Benchmark: raytrace



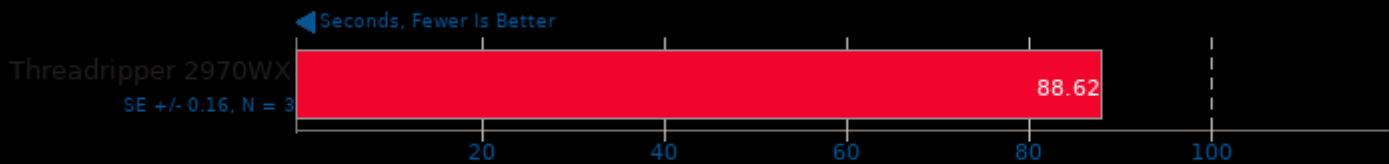
Blender 2.82

Blend File: BMW27 - Compute: CPU-Only



G'MIC

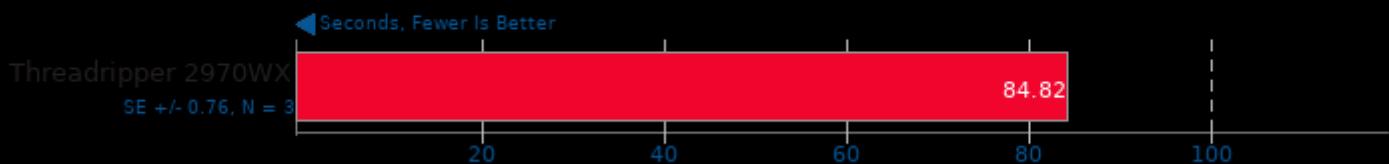
Test: 3D Elevated Function In Random Colors, 100 Times



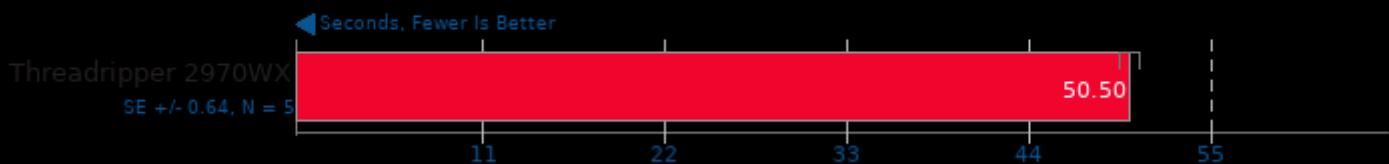
1. Version 2.4.5, Copyright (c) 2008-2019, David Tschumperle.

Build2 0.12

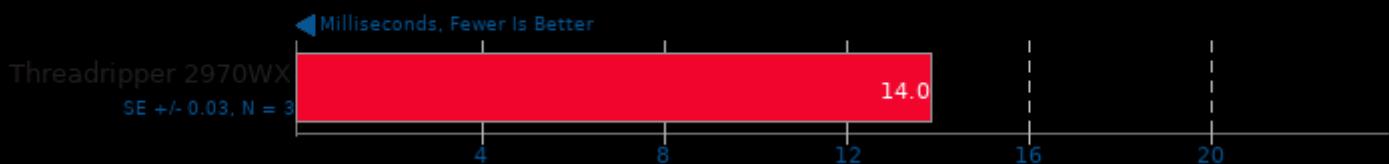
Time To Compile

**Timed Linux Kernel Compilation 5.4**

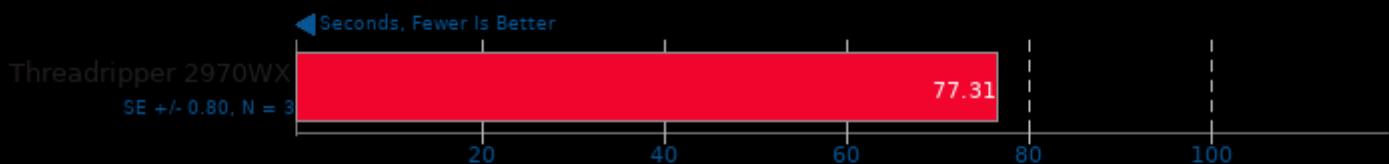
Time To Compile

**PyPerformance 1.0.0**

Benchmark: python_startup

**libavif avifenc 0.7.3**

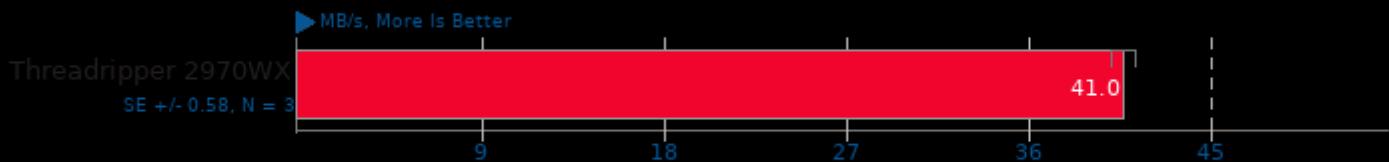
Encoder Speed: 0



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

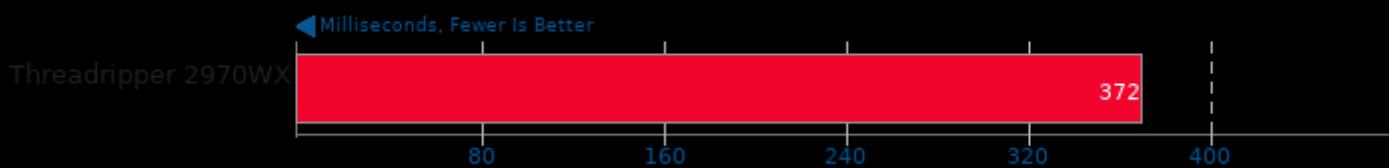
Zstd Compression 1.4.5

Compression Level: 19



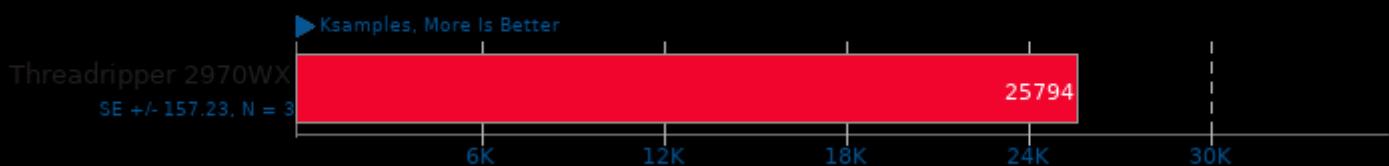
PyPerformance 1.0.0

Benchmark: 2to3



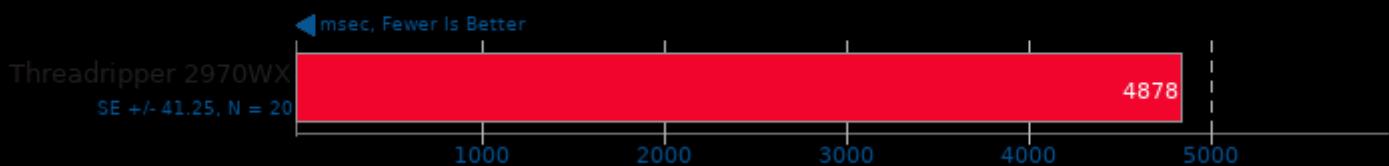
Chaos Group V-RAY 4.10.07

Mode: CPU



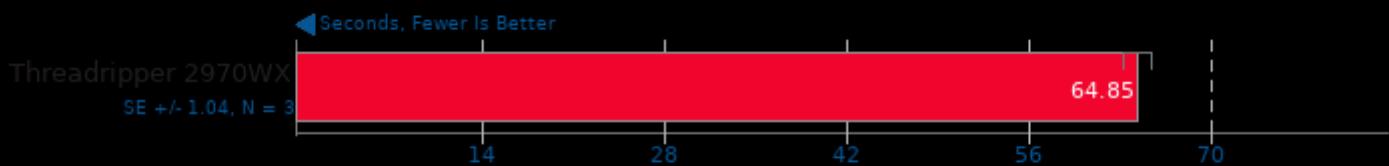
DaCapo Benchmark 9.12-MR1

Java Test: H2



Rodinia 3.1

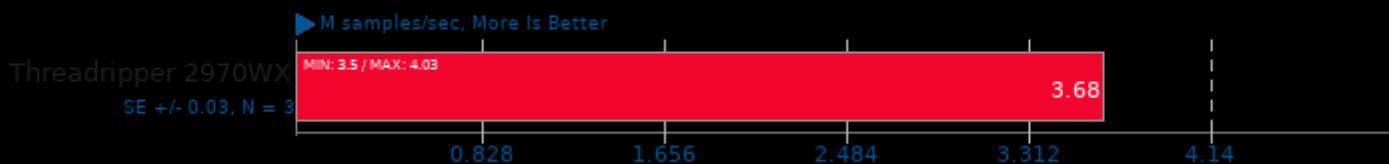
Test: OpenMP Leukocyte



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

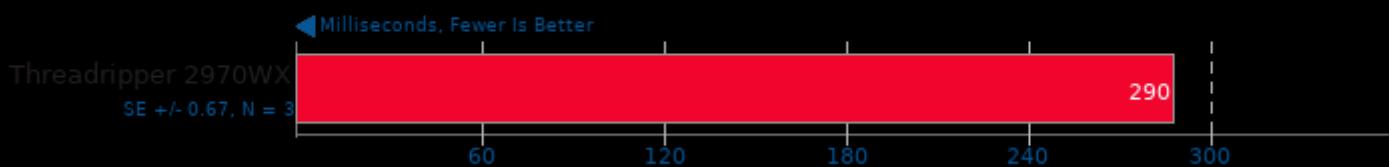
LuxCoreRender 2.3

Scene: Rainbow Colors and Prism



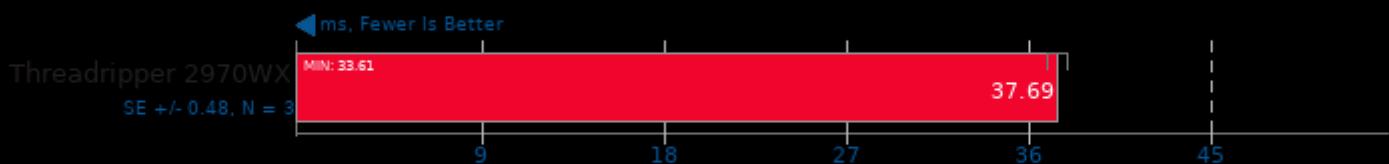
PyPerformance 1.0.0

Benchmark: go



oneDNN 1.5

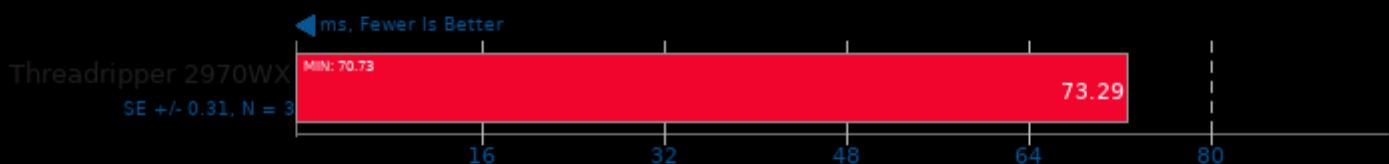
Harness: IP Batch All - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 1.5

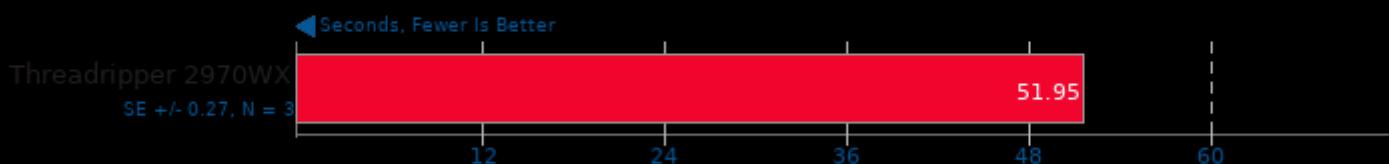
Harness: IP Batch All - Data Type: f32 - Engine: CPU



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

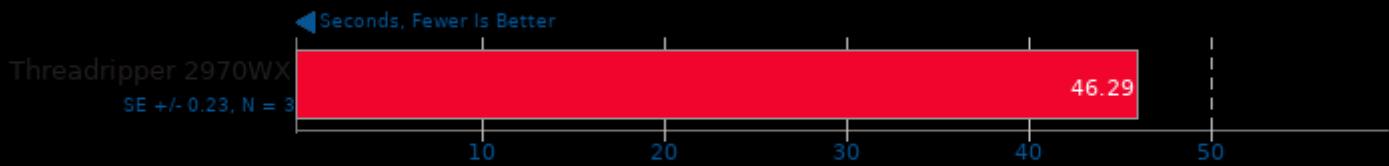
Hugin

Panorama Photo Assistant + Stitching Time



libavif avifenc 0.7.3

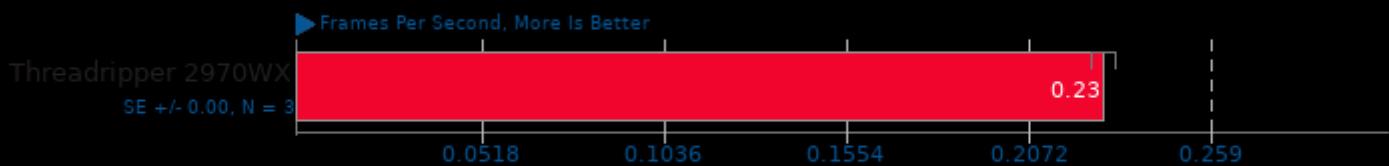
Encoder Speed: 2



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

AOM AV1 2.0

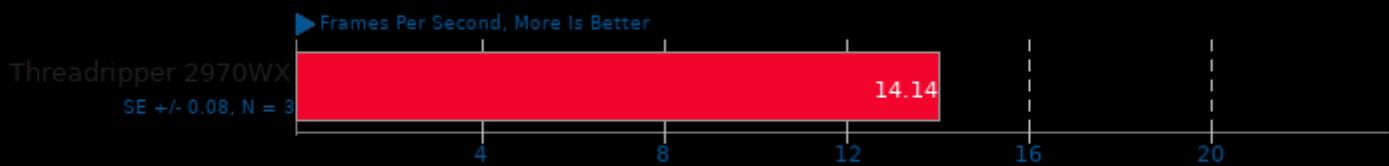
Encoder Mode: Speed 0 Two-Pass



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

AOM AV1 2.0

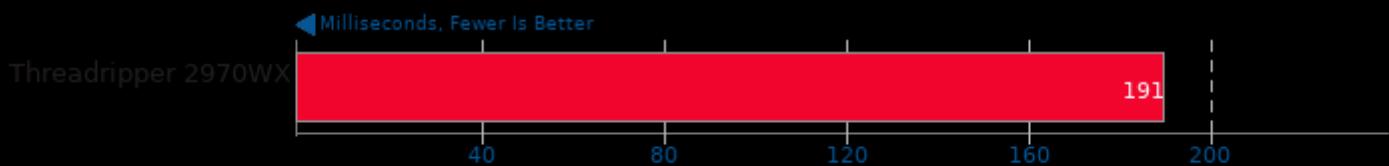
Encoder Mode: Speed 6 Realtime



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

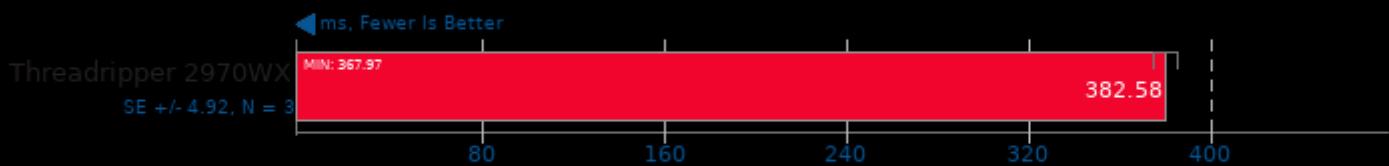
PyPerformance 1.0.0

Benchmark: regex_compile



oneDNN 1.5

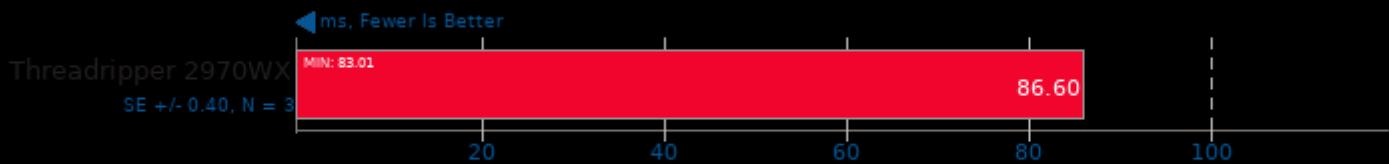
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU



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

oneDNN 1.5

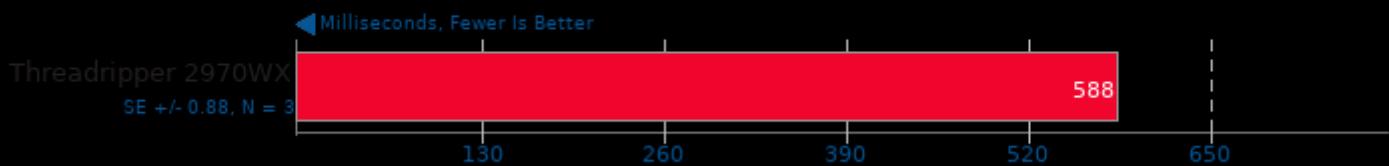
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU



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

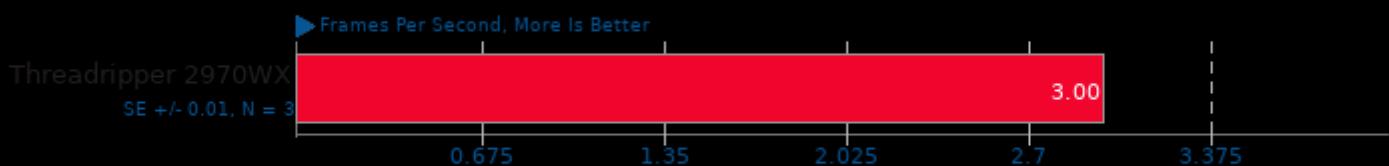
PyPerformance 1.0.0

Benchmark: pickle_pure_python



AOM AV1 2.0

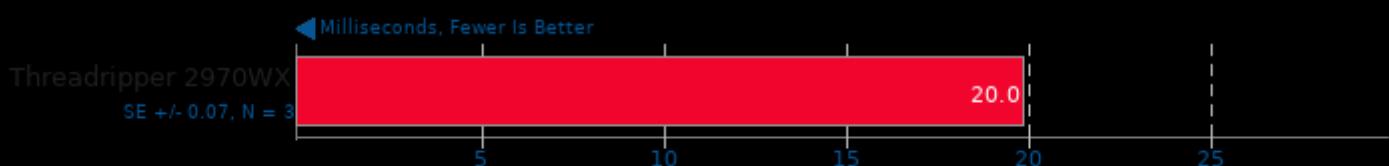
Encoder Mode: Speed 6 Two-Pass



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

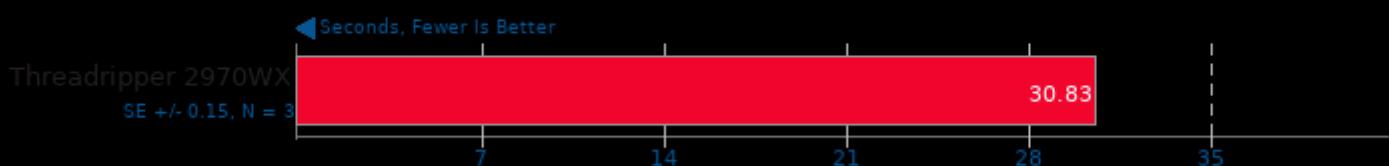
PyPerformance 1.0.0

Benchmark: pathlib



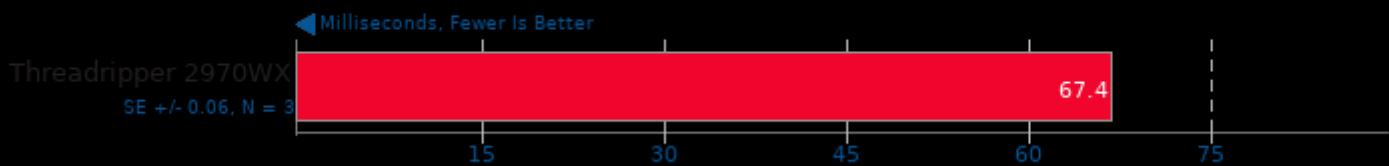
Tesseract OCR 4.1.1

Time To OCR 7 Images



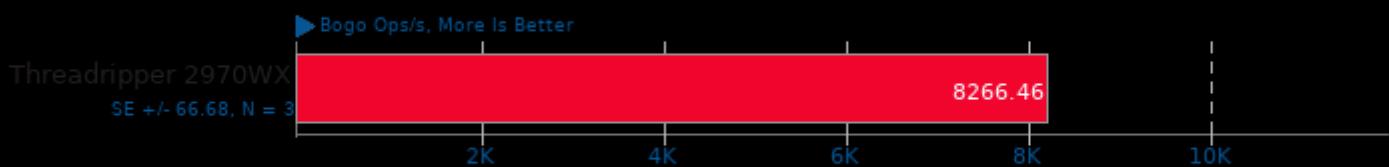
PyPerformance 1.0.0

Benchmark: django_template



Stress-NG 0.11.07

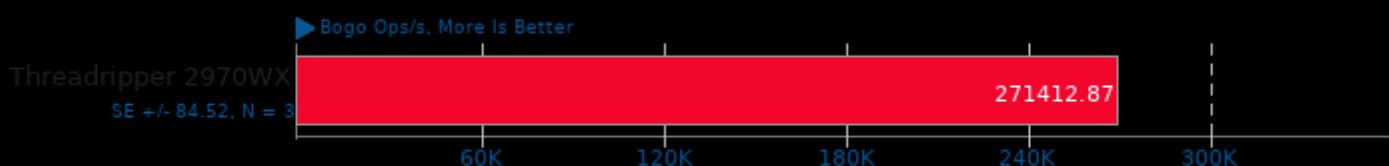
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

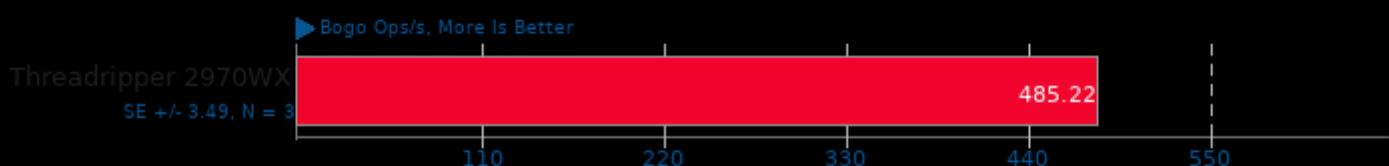
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

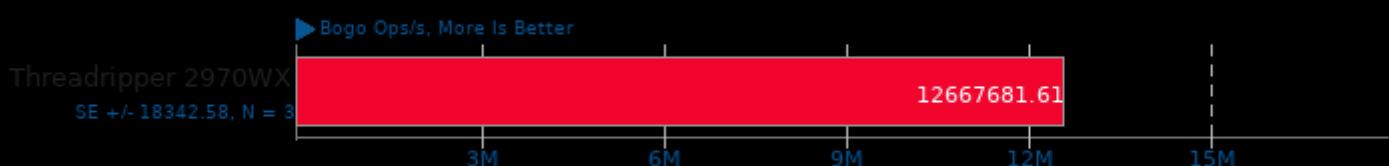
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

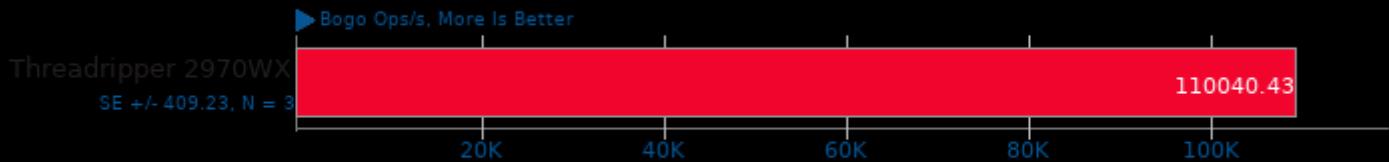
Test: System V Message Passing



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

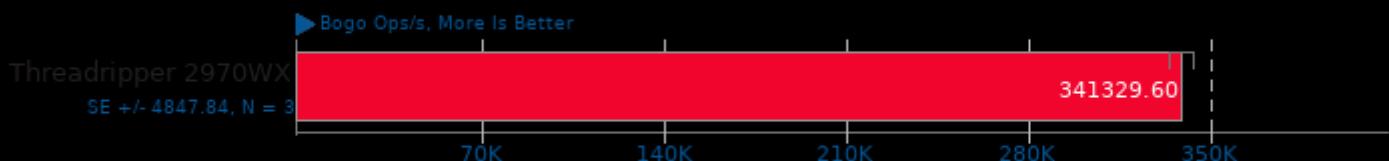
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

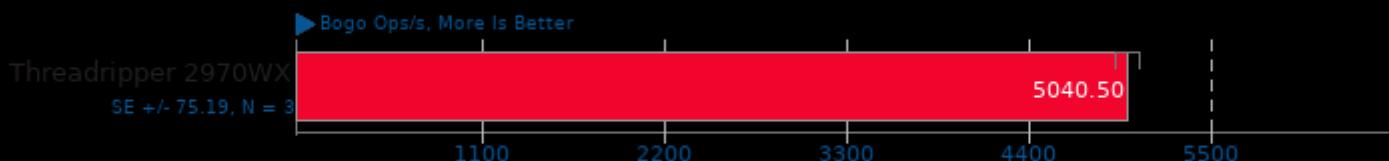
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

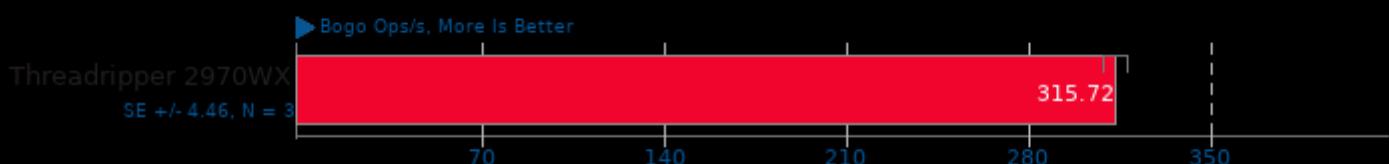
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

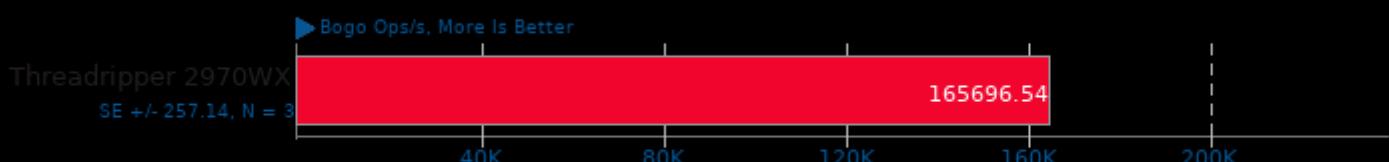
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

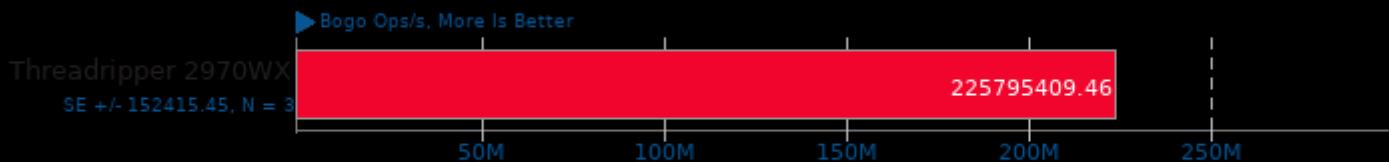
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

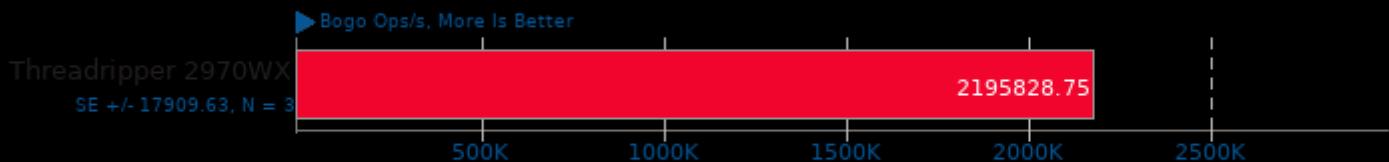
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

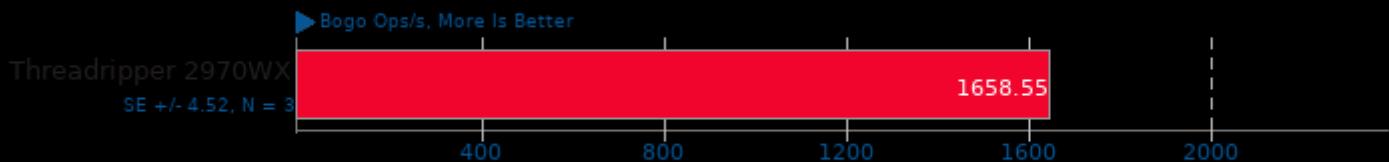
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

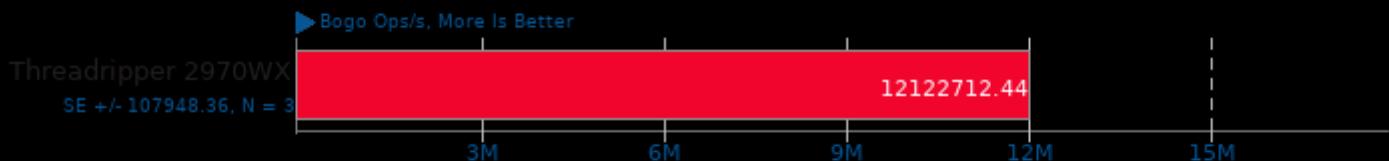
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

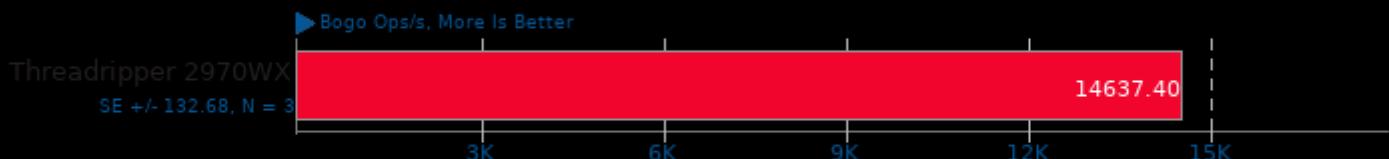
Test: Context Switching



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

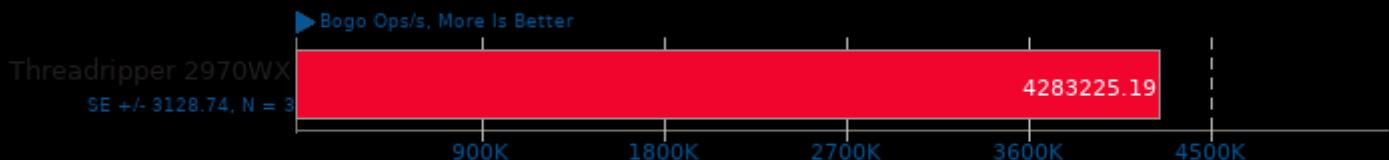
Test: Socket Activity



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

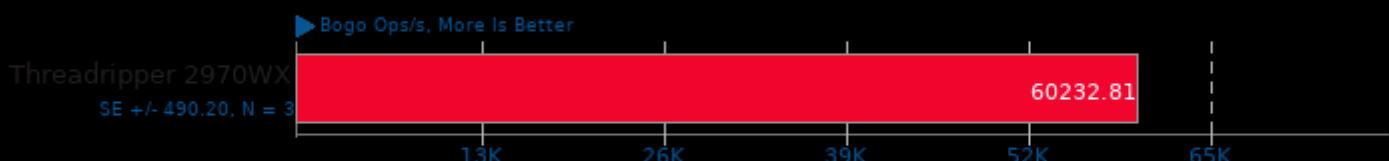
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

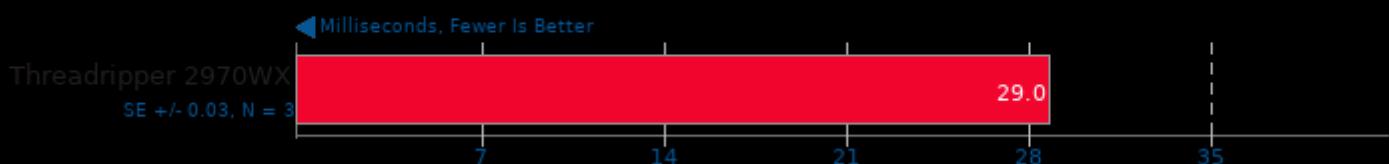
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lz -ldl -lpthread -lc

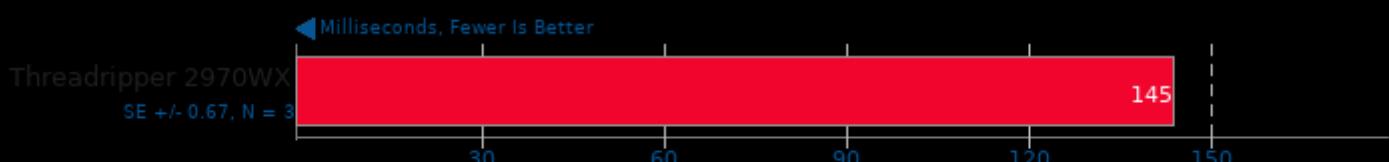
PyPerformance 1.0.0

Benchmark: json.loads



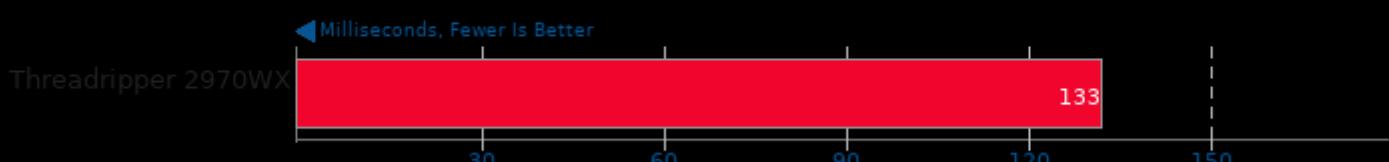
PyPerformance 1.0.0

Benchmark: nbody



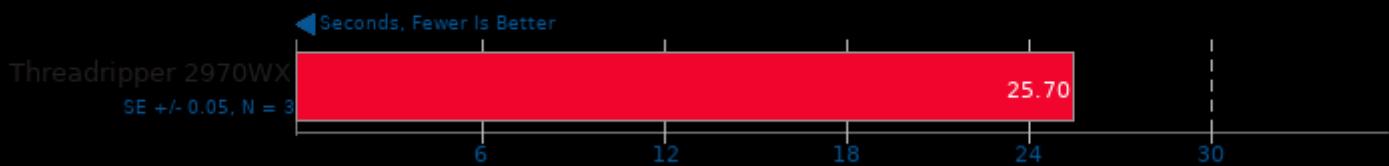
PyPerformance 1.0.0

Benchmark: chaos



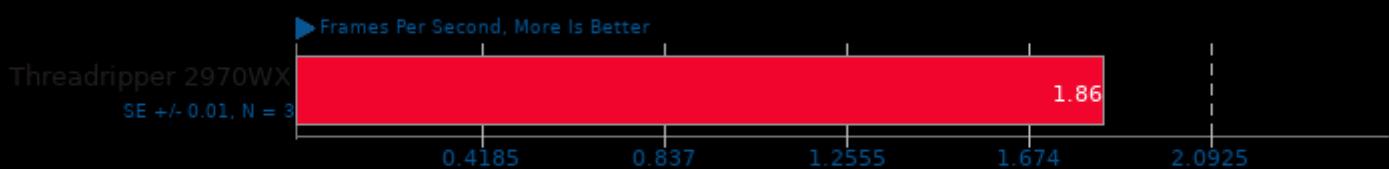
Timed Apache Compilation 2.4.41

Time To Compile



AOM AV1 2.0

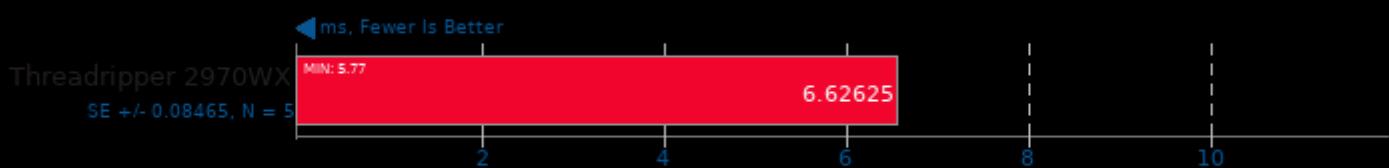
Encoder Mode: Speed 4 Two-Pass



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

oneDNN 1.5

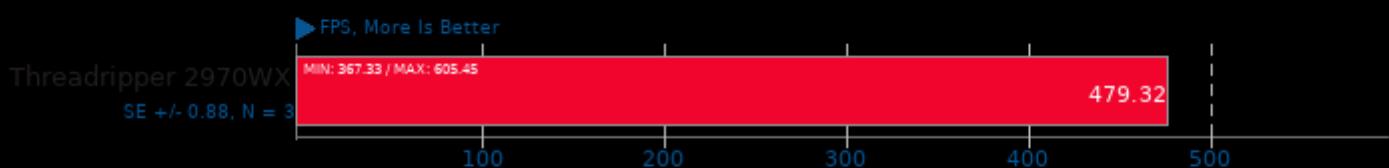
Harness: IP Batch 1D - Data Type: f32 - Engine: CPU



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

dav1d 0.7.0

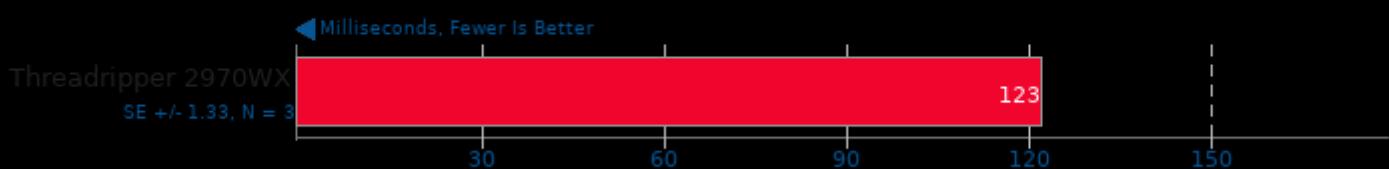
Video Input: Chimera 1080p



1. (CC) gcc options: -pthread

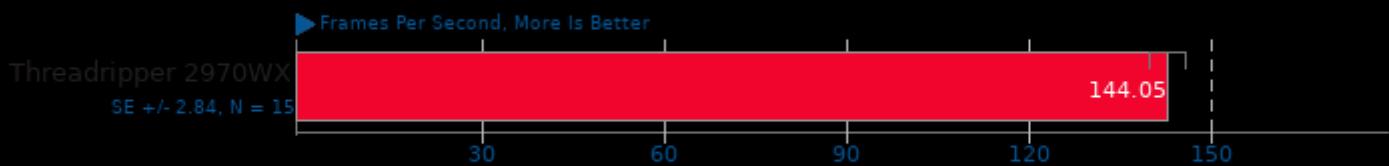
PyPerformance 1.0.0

Benchmark: float



SVT-VP9 0.1

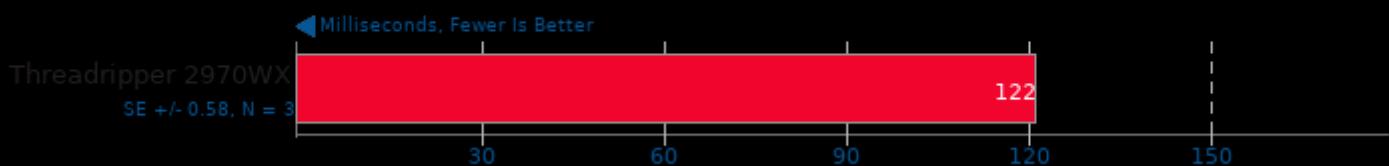
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

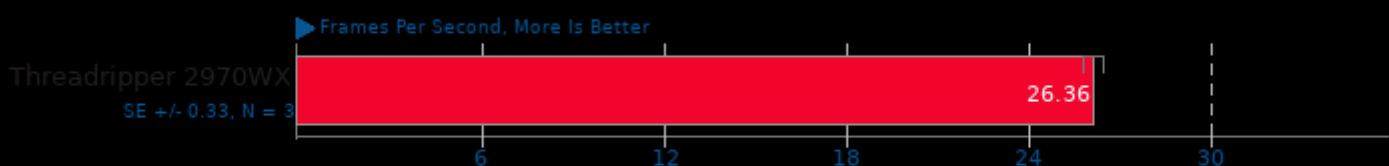
PyPerformance 1.0.0

Benchmark: crypto_pyaes



AOM AV1 2.0

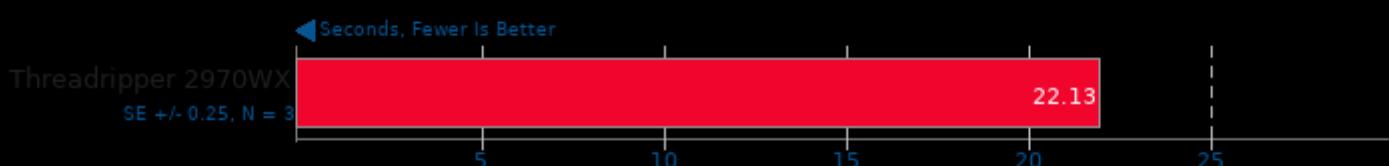
Encoder Mode: Speed 8 Realtime



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

G'MIC

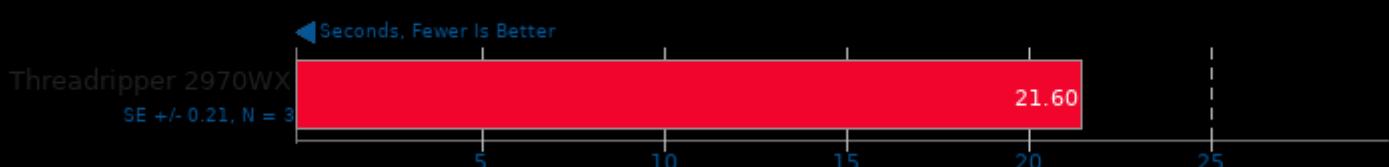
Test: Plotting Isosurface Of A 3D Volume, 1000 Times



1. Version 2.4.5, Copyright (c) 2008-2019, David Tschumperle.

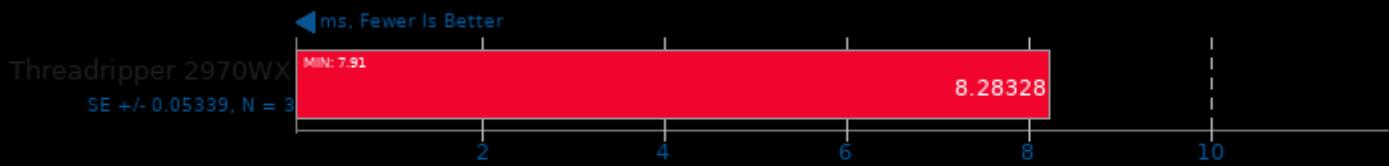
OCRMypdf 9.6.0+dfsg

Processing 60 Page PDF Document



oneDNN 1.5

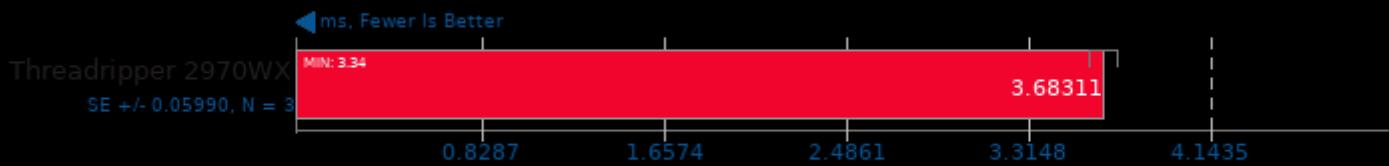
Harness: Deconvolution Batch deconv_1d - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 1.5

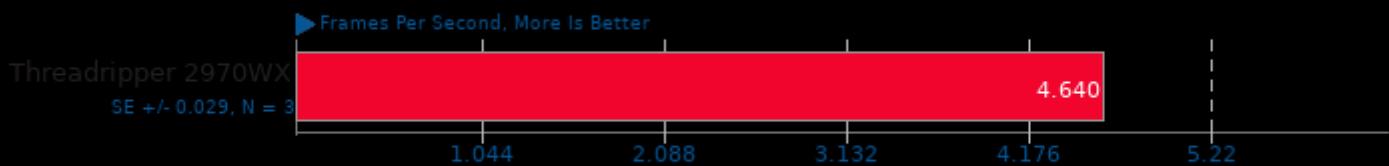
Harness: Deconvolution Batch deconv_1d - Data Type: f32 - Engine: CPU



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

SVT-AV1 0.8

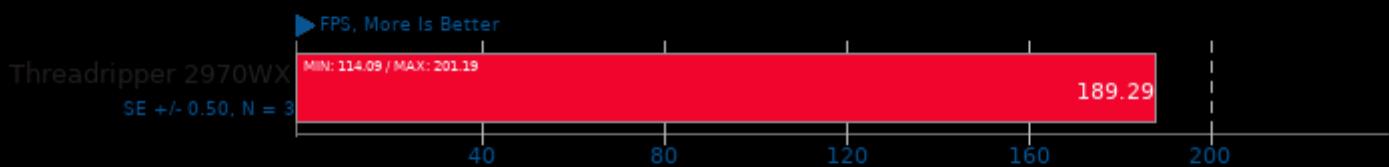
Encoder Mode: Enc Mode 4 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

dav1d 0.7.0

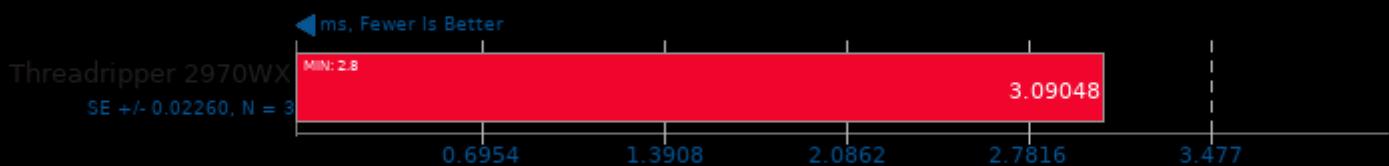
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread

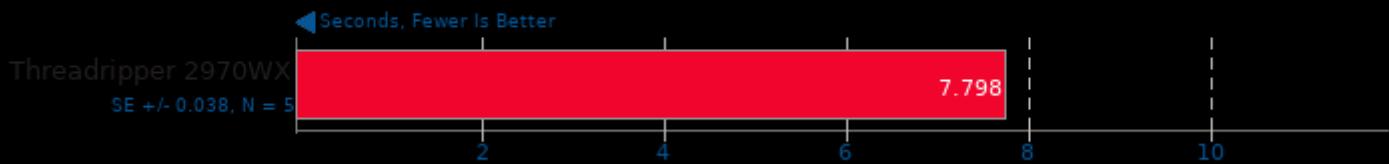
oneDNN 1.5

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



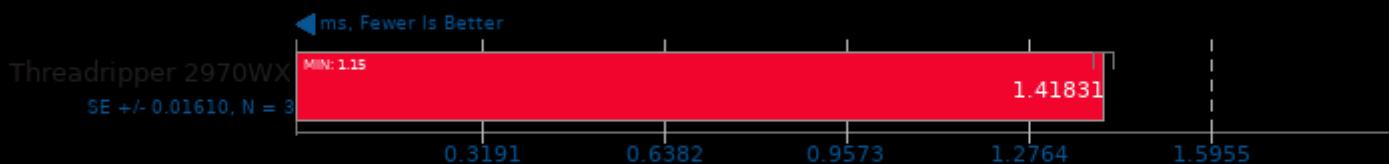
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

GNU Octave Benchmark 5.2.0



oneDNN 1.5

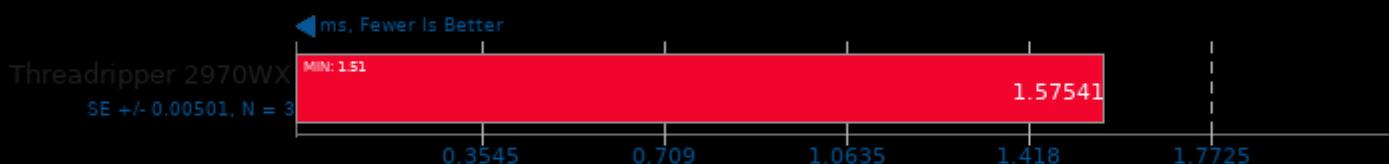
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU



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

oneDNN 1.5

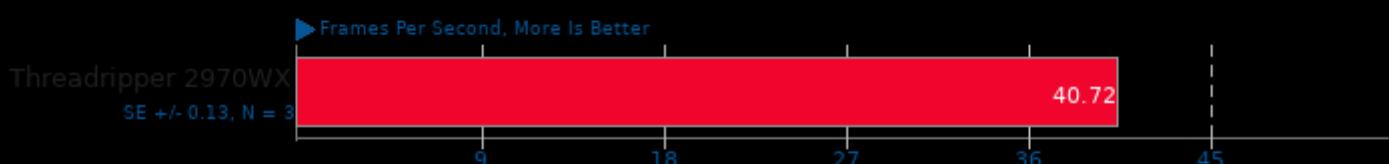
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



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

SVT-AV1 0.8

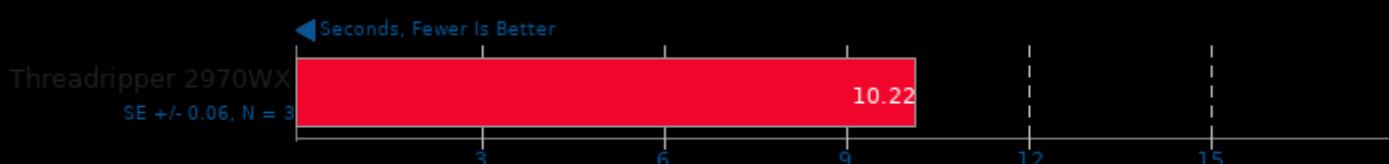
Encoder Mode: Enc Mode 8 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

Rodinia 3.1

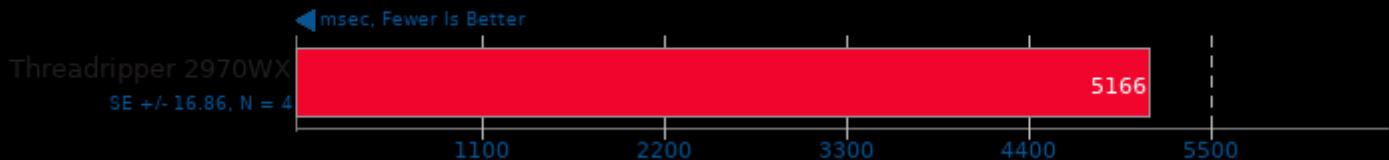
Test: OpenMP CFD Solver



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

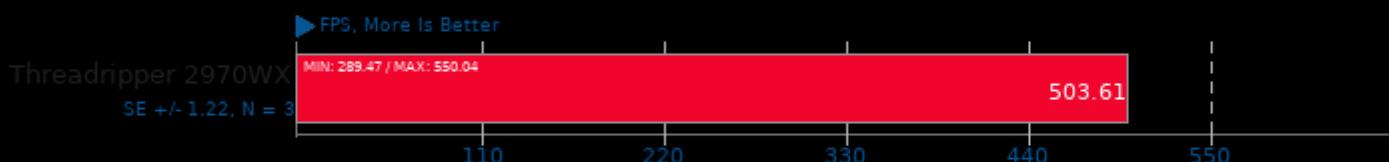
DaCapo Benchmark 9.12-MR1

Java Test: Jython



dav1d 0.7.0

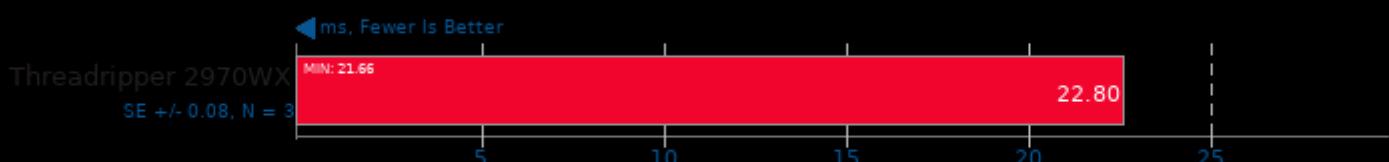
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread

oneDNN 1.5

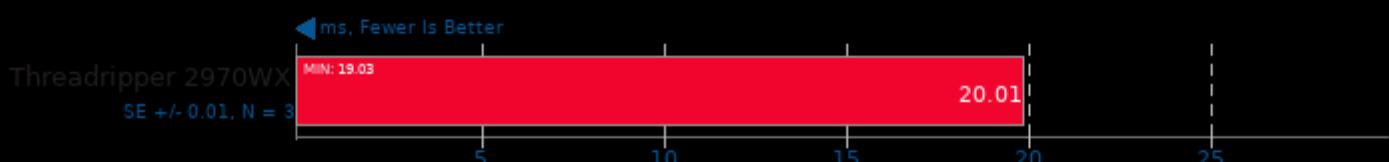
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 1.5

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



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

SVT-VP9 0.1

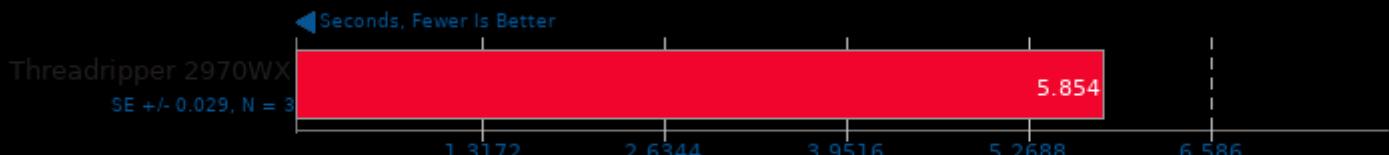
Tuning: VMAF Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -pthread -lrt -lm

libavif avifenc 0.7.3

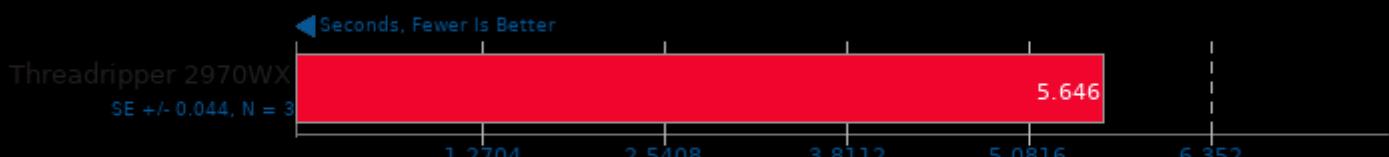
Encoder Speed: 8



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

libavif avifenc 0.7.3

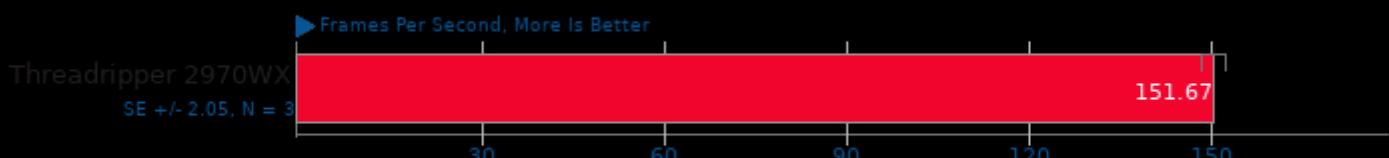
Encoder Speed: 10



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

SVT-VP9 0.1

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



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -visibility=hidden -pie -rdynamic -lpthread -lrt -lm

oneDNN 1.5

Harness: Deconvolution Batch deconv_3d - Data Type: u8s8f32 - Engine: CPU



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

oneDNN 1.5

Harness: Deconvolution Batch deconv_3d - Data Type: f32 - Engine: CPU



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:12.