

www.phoronix-test-suite.com

OnLogic Helix 500 Core i7 10700T

Intel Core i7-10700T testing on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

Circa Freezing had the most wins, coming in first place for 75% of the tests.

Based on the geometric mean of all complete results, the fastest (Circa Freezing) was 1.008x the speed of the slowest (Room Temperature).

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

JPEG XL (Input: PNG - Encode Speed: 5) at 1.03x
InfluxDB (Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000) at 1.025x
Timed Godot Game Engine Compilation (Time To Compile) at 1.024x
InfluxDB (Concurrent Streams: 4 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000) at 1.021x
KeyDB at 1.02x
TensorFlow Lite (Model: Mobilenet Quant) at 1.015x
TensorFlow Lite (Model: Inception ResNet V2) at 1.014x
QuantLib at 1.014x
TensorFlow Lite (Model: Mobilenet Float) at 1.014x
TensorFlow Lite (Model: Inception V4) at 1.013x.

Test Systems:

Room Temperature

Processor: Intel Core i7-10700T @ 4.50GHz (8 Cores / 16 Threads), Motherboard: Logic Supply RXM-181 (Z01-0002A026 BIOS), Chipset: Intel Comet Lake PCH, Memory: 2 x 16384 MB DDR4-2667MT/s M4S0-AGS1O5IK, Disk: 256GB TS256GMTS800, Graphics: Intel UHD 630 3GB (1200MHz), Audio: Realtek ALC233, Monitor: DELL P2415Q, Network: Intel I219-LM + Intel I210

OS: Ubuntu 20.10, Kernel: 5.8.0-43-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe0 - Thermald 2.3
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Circa Freezing

Processor: Intel Core i7-10700T @ 4.50GHz (8 Cores / 16 Threads), Motherboard: Logic Supply RXM-181 (Z01-0002A026 BIOS), Chipset: Intel Comet Lake PCH, Memory: 2 x 16384 MB DDR4-2667MT/s M4S0-AGS1O5IK, Disk: 256GB TS256GMTS800, Graphics: (1200MHz), Audio: Realtek ALC233, Network: Intel I219-LM + Intel I210

OS: Ubuntu 20.10, Kernel: 5.8.0-43-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: madvise
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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe0 - Thermald 2.3
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Room Temperature	Circa Freezing
Chaos Group V-RAY - CPU (vsamples)	**5402**	**5445**
Normalized	99.21%	100%
Standard Deviation	2.5%	2.3%
KeyDB (Ops/sec)	**495025**	**505005**
Normalized	98.02%	100%
Standard Deviation	1.4%	1.4%

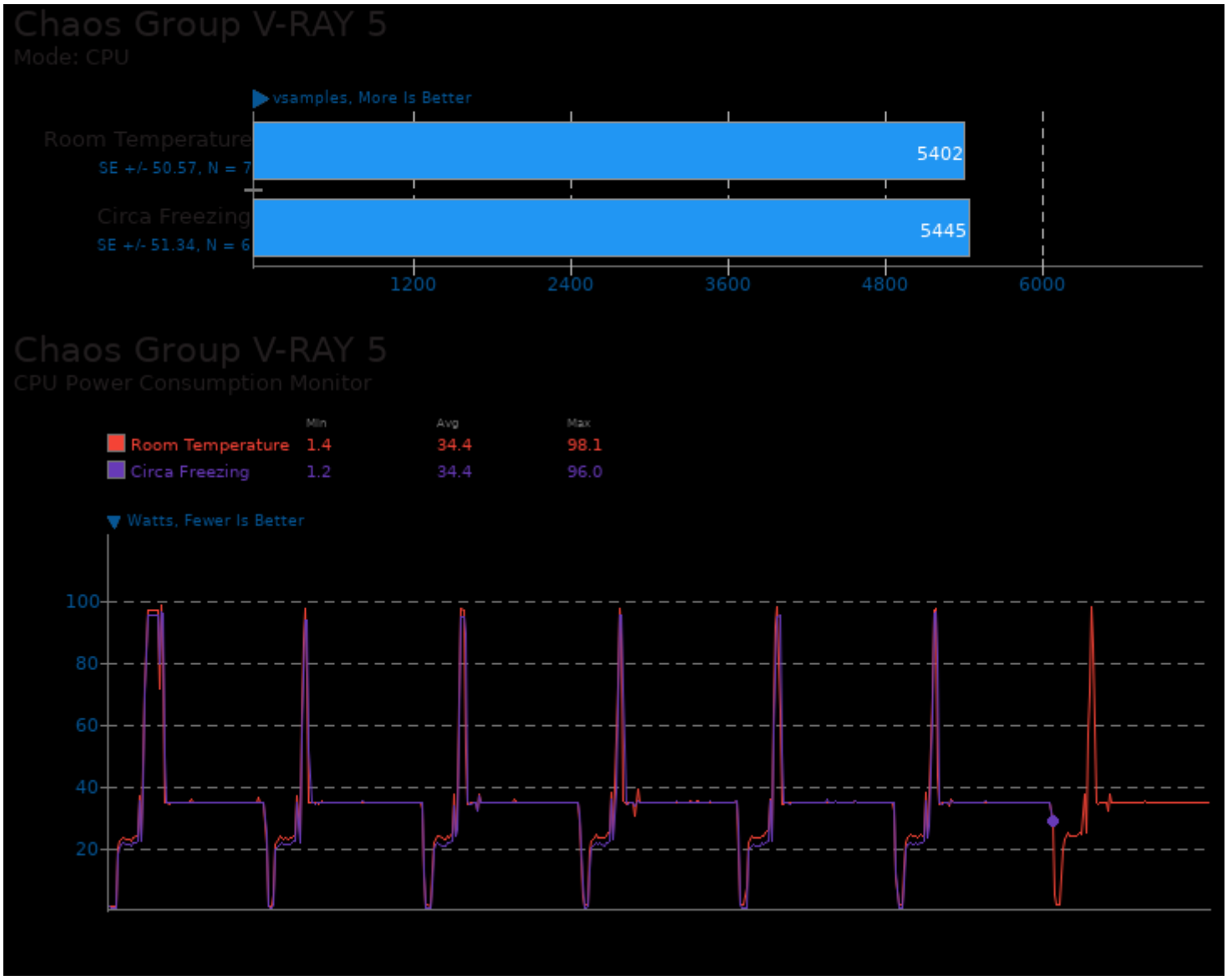
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InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec)	**1124387**	**1148266**
Normalized	97.92%	100%
Standard Deviation	1.1%	0.6%
InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec)	**1156387**	**1185202**
Normalized	97.57%	100%
Standard Deviation	1.1%	1.3%
JPEG XL - JPEG - 5 (MP/s)	**54.04**	**53.99**
Normalized	100%	99.91%
Standard Deviation	0.4%	0.3%
JPEG XL - JPEG - 7 (MP/s)	**53.64**	**53.87**
Normalized	99.57%	100%
Standard Deviation	0.7%	0.2%
JPEG XL - PNG - 5 (MP/s)	**53.21**	**54.79**
Normalized	97.12%	100%
Standard Deviation	2.5%	2.4%
JPEG XL - PNG - 7 (MP/s)	**7.53**	**7.54**
Normalized	99.87%	100%
Standard Deviation	0.1%	0.2%
ONNX Runtime - yolov4 - OpenMP CPU	**266**	**268**
Normalized	99.25%	100%
Standard Deviation	1.1%	1%
ONNX Runtime - fcn-resnet101-11 - OpenMP CPU (Inferences/min)	42	42
Standard Deviation	1.2%	1.4%
ONNX Runtime - shufflenet-v2-10 - OpenMP CPU (Inferences/min)	**12195**	**12295**
Normalized	99.19%	100%
Standard Deviation	1.1%	0.6%
ONNX Runtime - super-resolution-10 - OpenMP CPU (Inferences/min)	**2819**	**2848**
Normalized	98.98%	100%
Standard Deviation	1.4%	1.6%
ONNX Runtime - bertsquad-10 - OpenMP CPU (Inferences/min)	**381**	**380**
Normalized	100%	99.74%
Standard Deviation	0.8%	0.9%
QuantLib (MFLOPS)	**2117**	**2088**
Normalized	100%	98.64%
Standard Deviation	0.1%	2.2%
Google SynthMark - VoiceMark_100 (Voices)	**589.563**	**589.446**
Normalized	100%	99.98%
Standard Deviation	0.1%	0.1%
DeepSpeech - CPU (sec)	**78.71463**	**77.71379**
Normalized	98.73%	100%
Standard Deviation	0.9%	0.7%
TNN - CPU - MobileNet v2 (ms)	**366.055**	**366.624**
Normalized	100%	99.84%
Standard Deviation	0.1%	0.1%
TNN - CPU - SqueezeNet v1.1 (ms)	**359.539**	**359.126**
Normalized	99.89%	100%
Standard Deviation	0.1%	0.2%
TensorFlow Lite - Mobilenet Float (us)	**237661**	**234439**
Normalized	98.64%	100%
Standard Deviation	2.5%	2.4%

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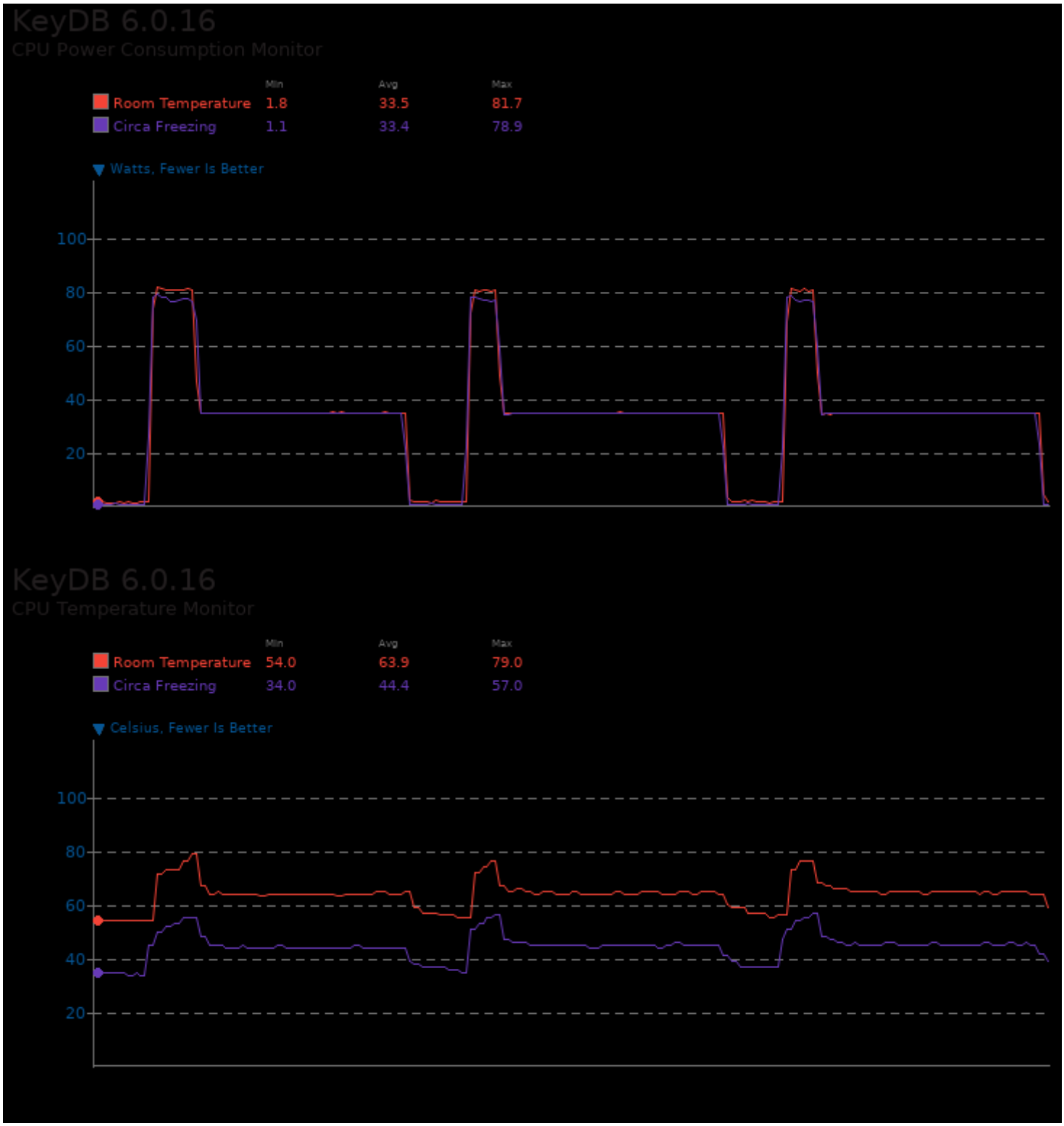
TensorFlow Lite - Mobilenet Quant (us)	**236389**	**232888**
Normalized	98.52%	100%
Standard Deviation	2.1%	2.1%
TensorFlow Lite - NASNet Mobile (us)	**297392**	**297020**
Normalized	99.87%	100%
Standard Deviation	2.1%	2.3%
TensorFlow Lite - SqueezeNet (us)	**353439**	**349067**
Normalized	98.76%	100%
Standard Deviation	2.1%	2.3%
TensorFlow Lite - I.R.V (us)	**4691777**	**4627133**
Normalized	98.62%	100%
Standard Deviation	0.9%	0.9%
TensorFlow Lite - Inception V4 (us)	**5191900**	**5125863**
Normalized	98.73%	100%
Standard Deviation	0.7%	0.8%
Build2 - Time To Compile (sec)	**250.965**	**248.179**
Normalized	98.89%	100%
Standard Deviation	1.4%	0.7%
Timed Godot Game Engine Compilation - Time To Compile (sec)	**255.449**	**249.532**
Normalized	97.68%	100%
Standard Deviation	0.6%	0.3%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	**62.179**	**62.837**
Normalized	100%	98.95%
Standard Deviation	0.1%	0.4%
GROMACS - water_GMX50_bare (Ns/Day)	**0.645**	**0.650**
Normalized	99.23%	100%
Standard Deviation	0.5%	0.5%

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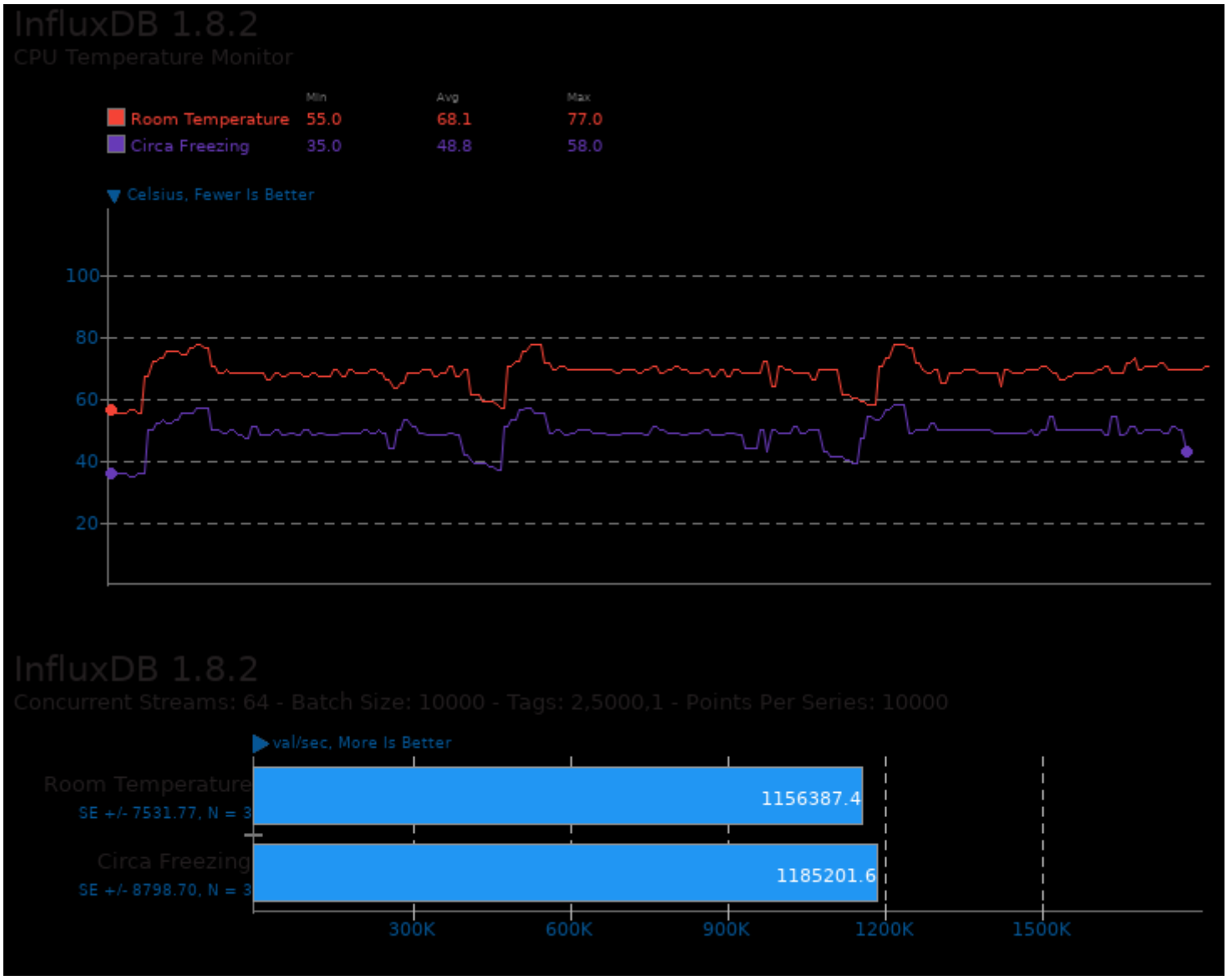

Chaos Group V-RAY 5
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 45.0 60.9 76.0
Circa Freezing 26.0 41.5 56.0
Celsius, Fewer Is Better
100
80
60
40
20
KeyDB 6.0.16
Ops/sec, More Is Better
Room Temperature
SE +/- 4010.76, N = 3
495025.46
Circa Freezing
SE +/- 4170.78, N = 3
505005.33
110K
220K
330K
440K
550K
1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

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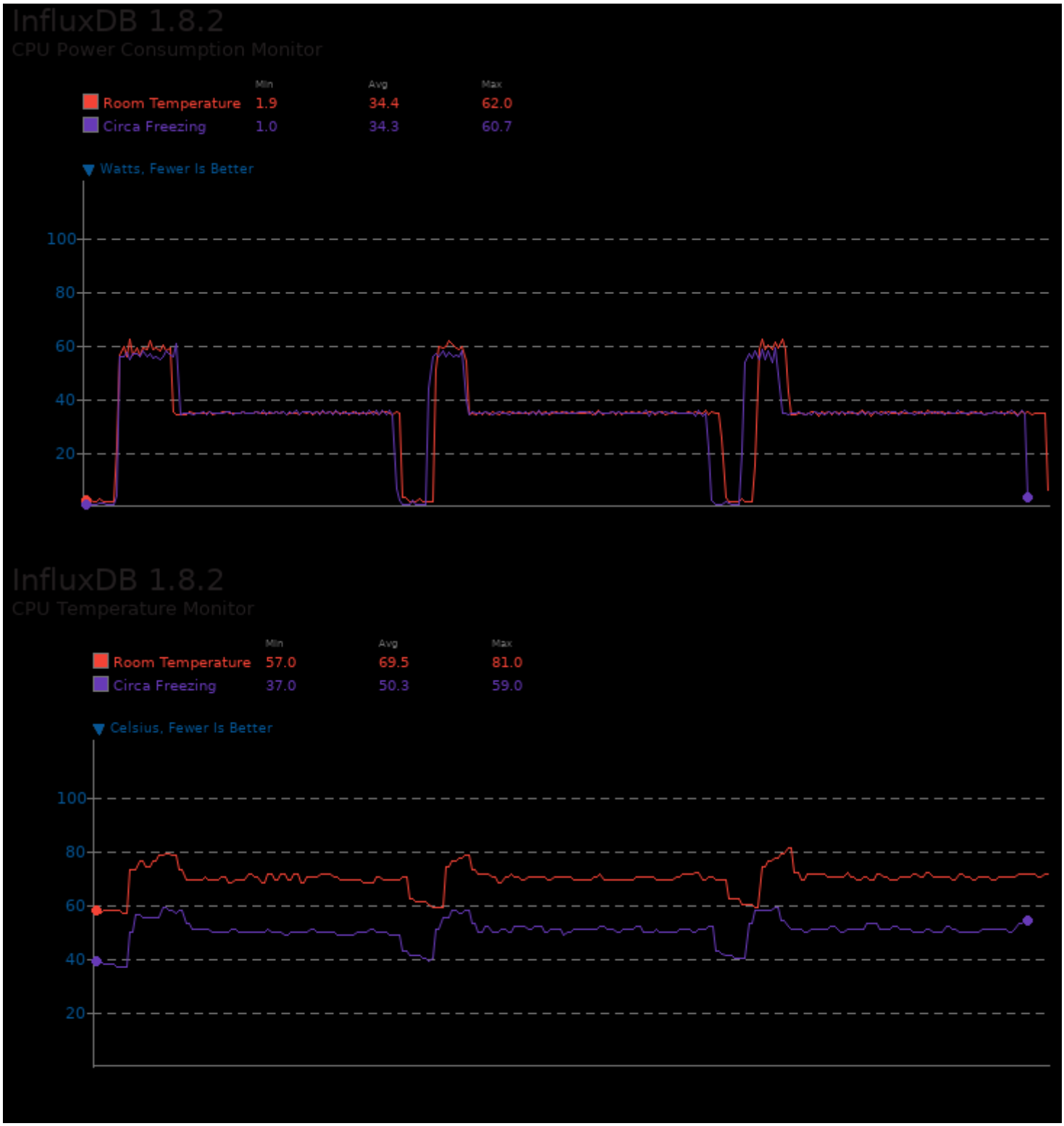


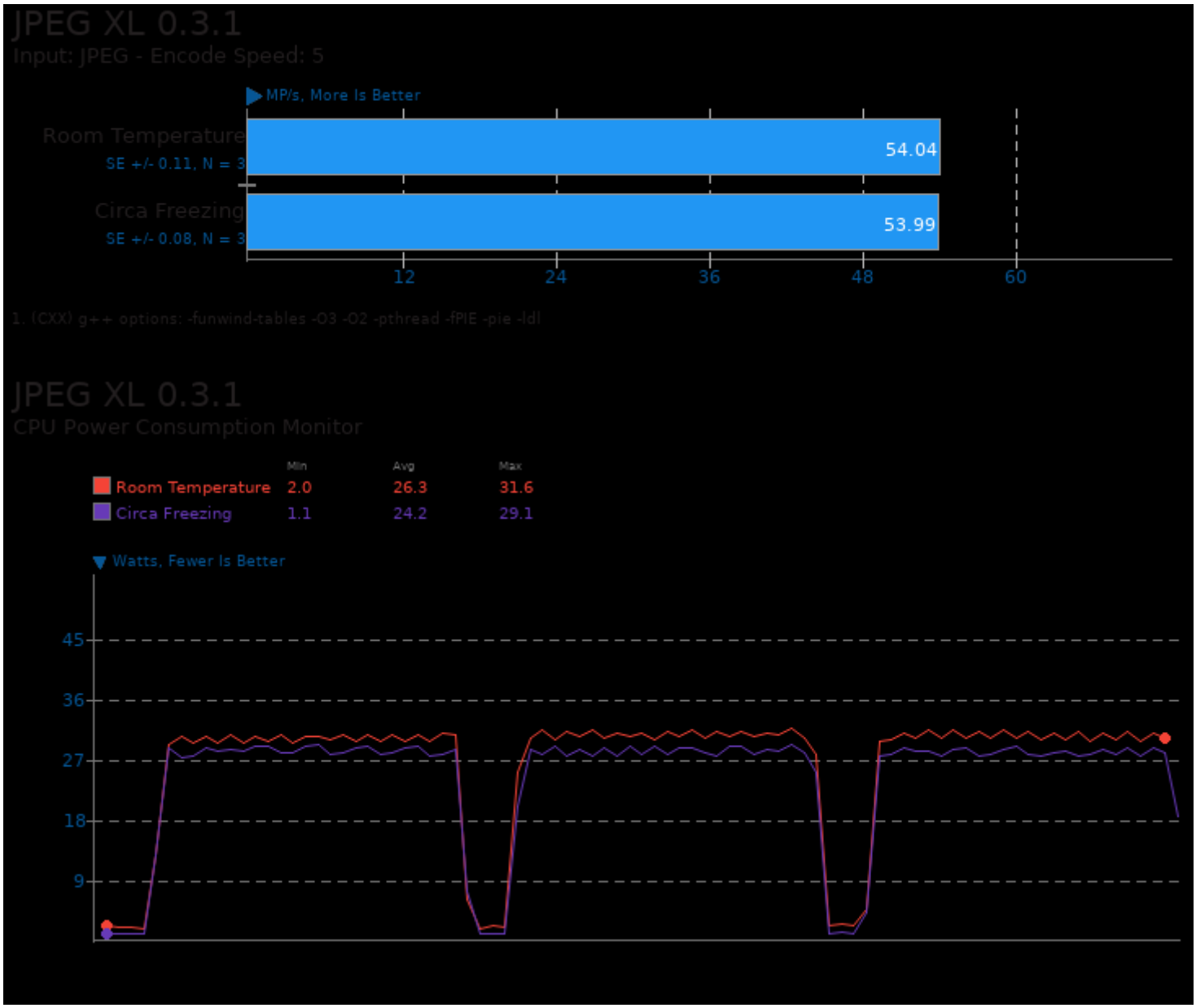
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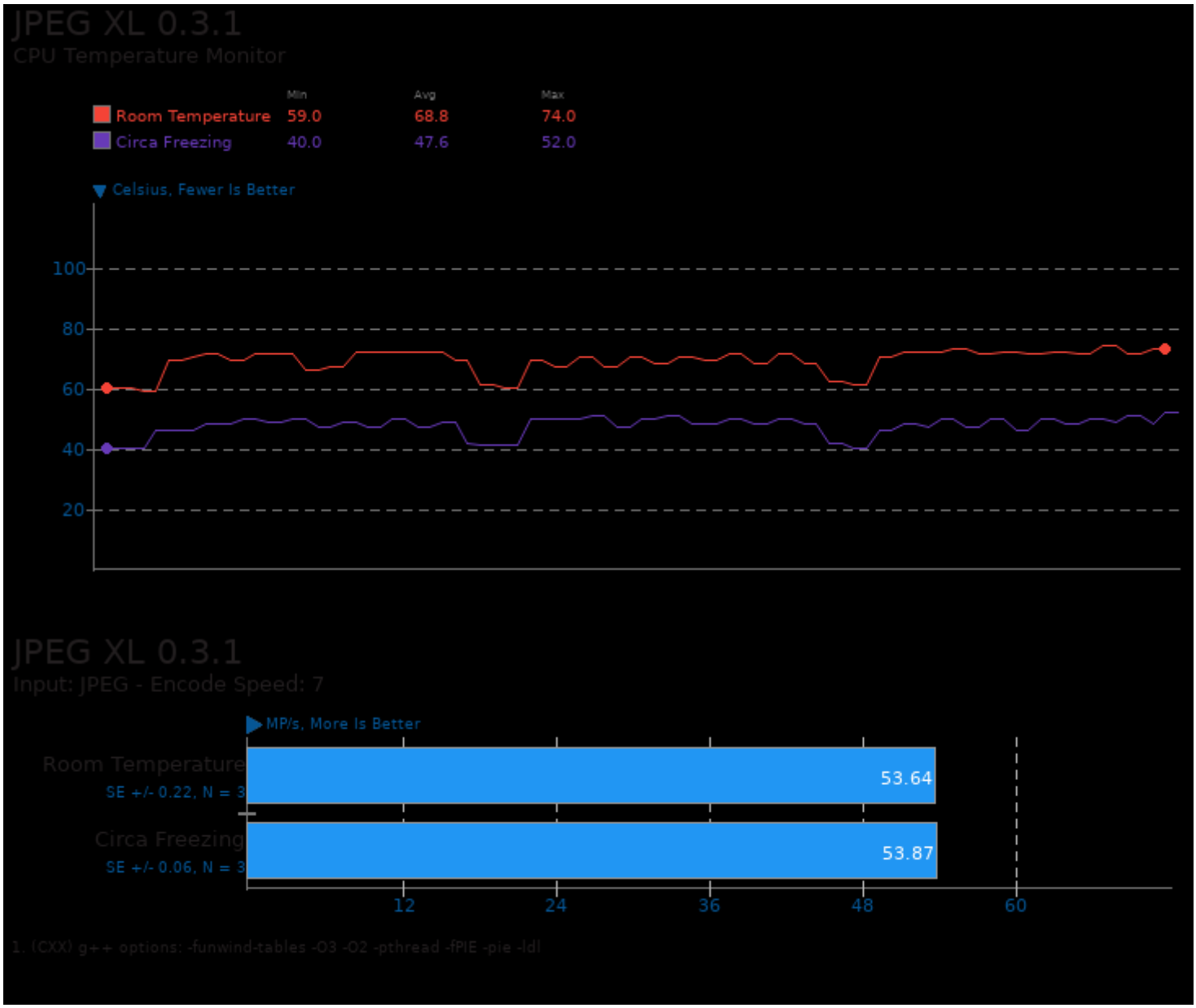


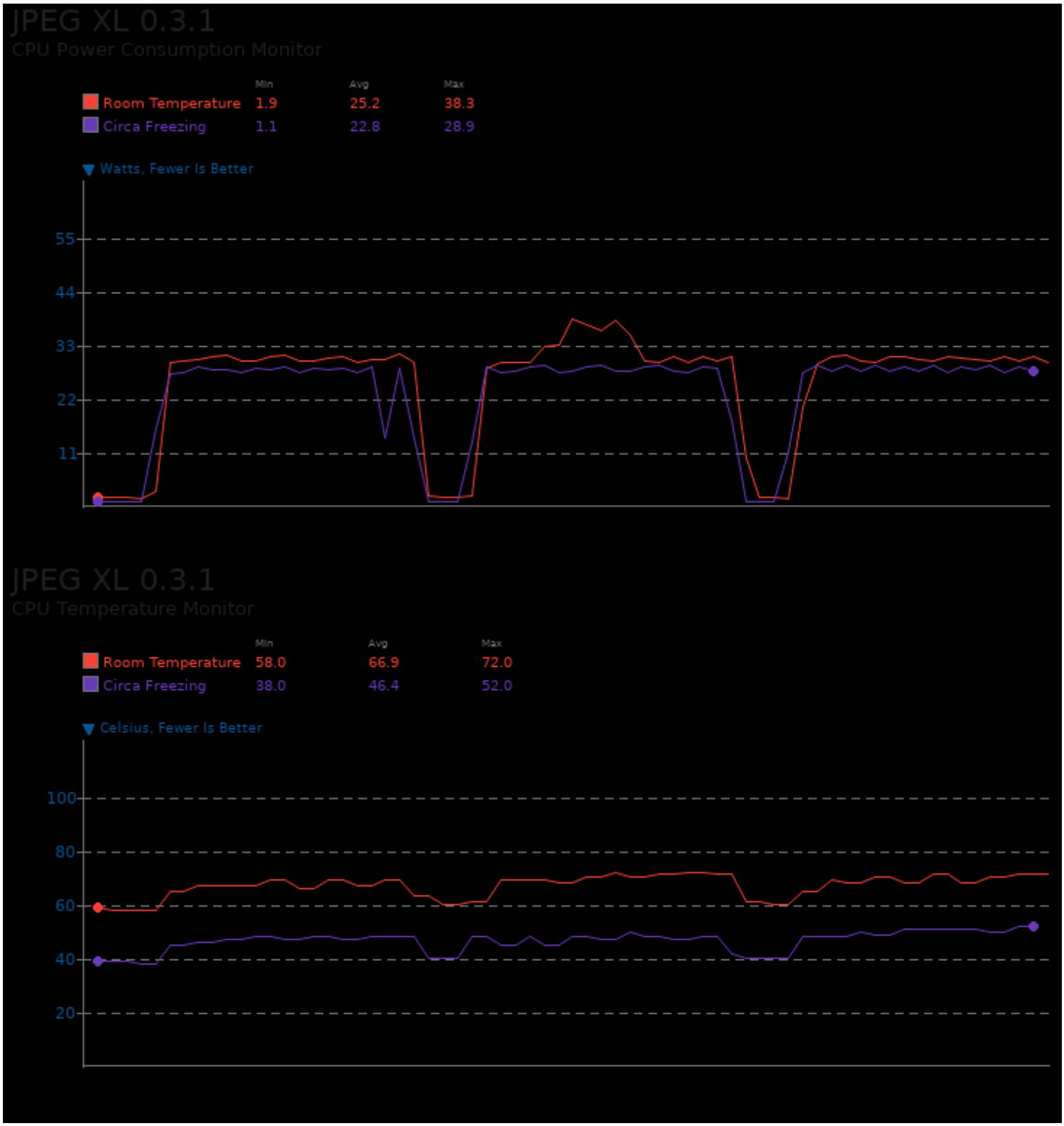

InfluxDB 1.8.2
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 55.0 68.1 77.0
Circa Freezing 35.0 48.8 58.0
Celsius, Fewer Is Better
100
80
60
40
20
InfluxDB 1.8.2
Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000
val/sec, More Is Better
Room Temperature
SE +/- 7531.77, N = 3
1156387.4
Circa Freezing
SE +/- 8798.70, N = 3
1185201.6
300K
600K
900K
1200K
1500K

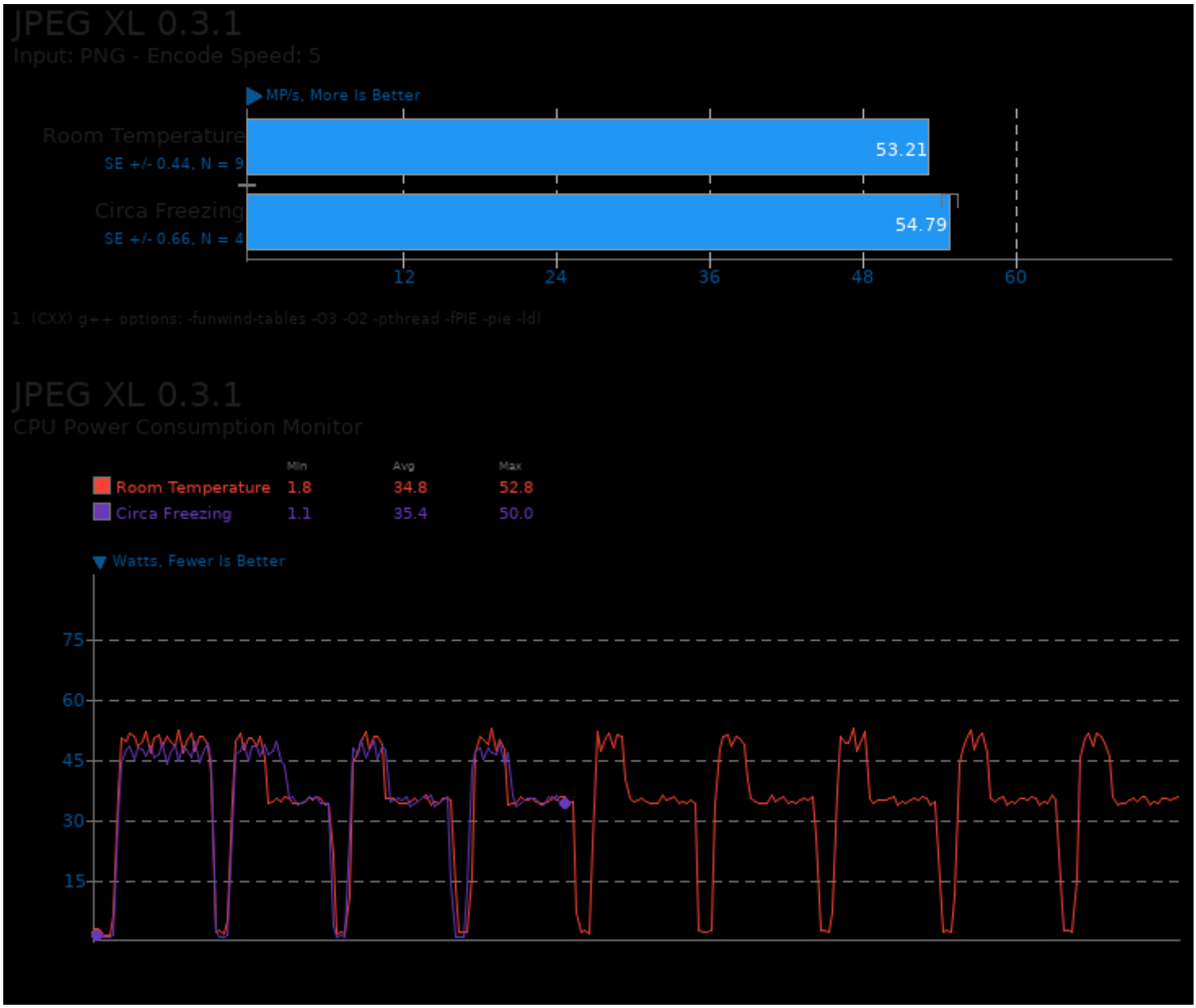
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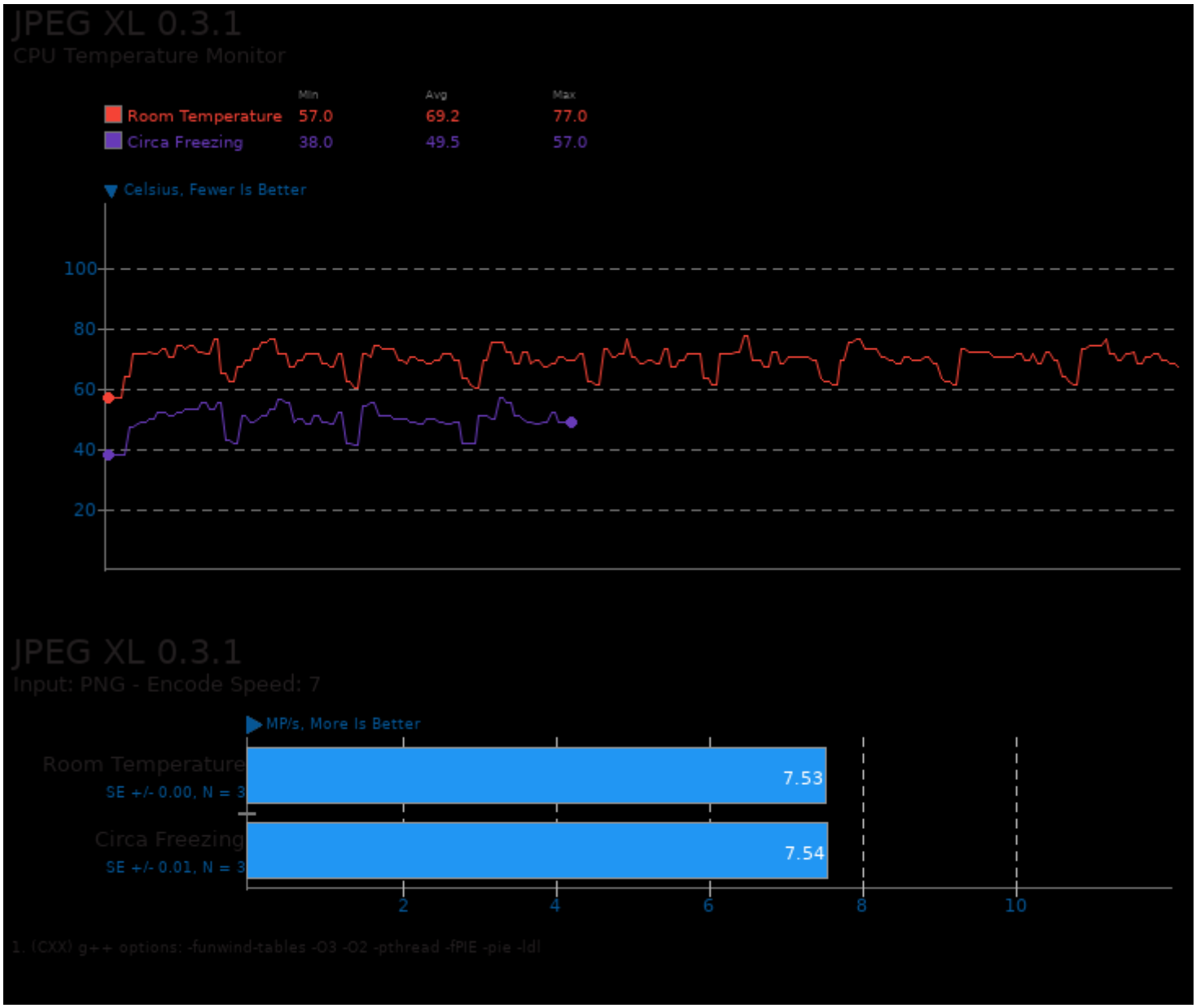

JPEG XL 0.3.1
Input: JPEG - Encode Speed: 5
MP/s, More Is Better
Room Temperature
SE +/- 0.11, N = 3
54.04
Circa Freezing
SE +/- 0.08, N = 3
53.99
12
24
36
48
60
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl
JPEG XL 0.3.1
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.0 26.3 31.6
Circa Freezing 1.1 24.2 29.1
Watts, Fewer Is Better
45
36
27
18
9


JPEG XL 0.3.1
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 59.0 68.8 74.0
Circa Freezing 40.0 47.6 52.0
Celsius, Fewer Is Better
100
80
60
40
20
JPEG XL 0.3.1
Input: JPEG - Encode Speed: 7
MP/s, More Is Better
Room Temperature
SE +/- 0.22, N = 3
53.64
Circa Freezing
SE +/- 0.06, N = 3
53.87
12
24
36
48
60
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

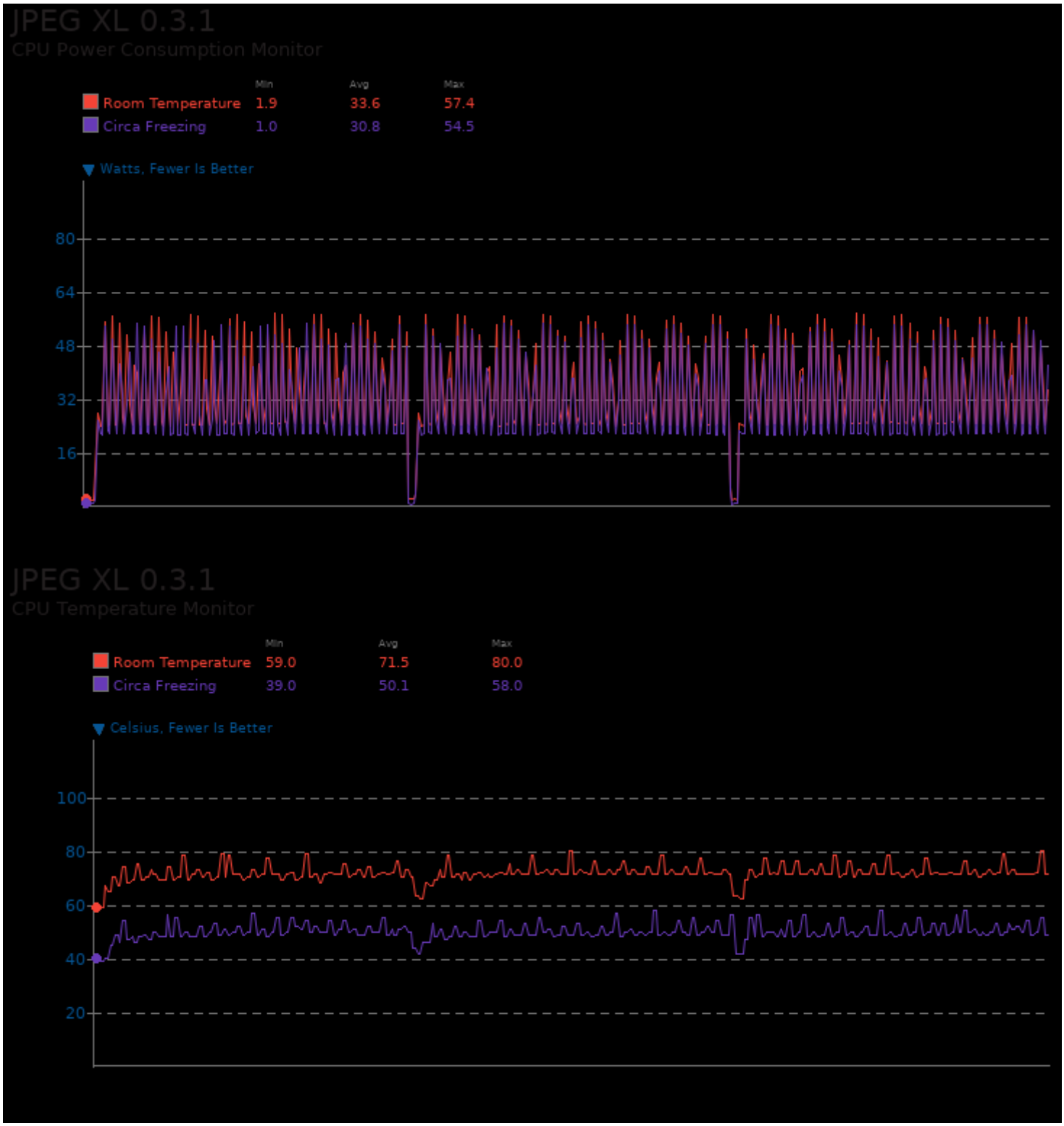

JPEG XL 0.3.1
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 1.9 25.2 38.3
Circa Freezing 1.1 22.8 28.9
Watts, Fewer Is Better
55
44
33
22
11
JPEG XL 0.3.1
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 58.0 66.9 72.0
Circa Freezing 38.0 46.4 52.0
Celsius, Fewer Is Better
100
80
60
40
20


JPEG XL 0.3.1
Input: PNG - Encode Speed: 5
MP/s, More Is Better
Room Temperature
SE +/- 0.44, N = 9
53.21
Circa Freezing
SE +/- 0.66, N = 4
54.79
12
24
36
48
60
1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl
JPEG XL 0.3.1
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 1.8 34.8 52.8
Circa Freezing 1.1 35.4 50.0
Watts, Fewer Is Better
75
60
45
30
15

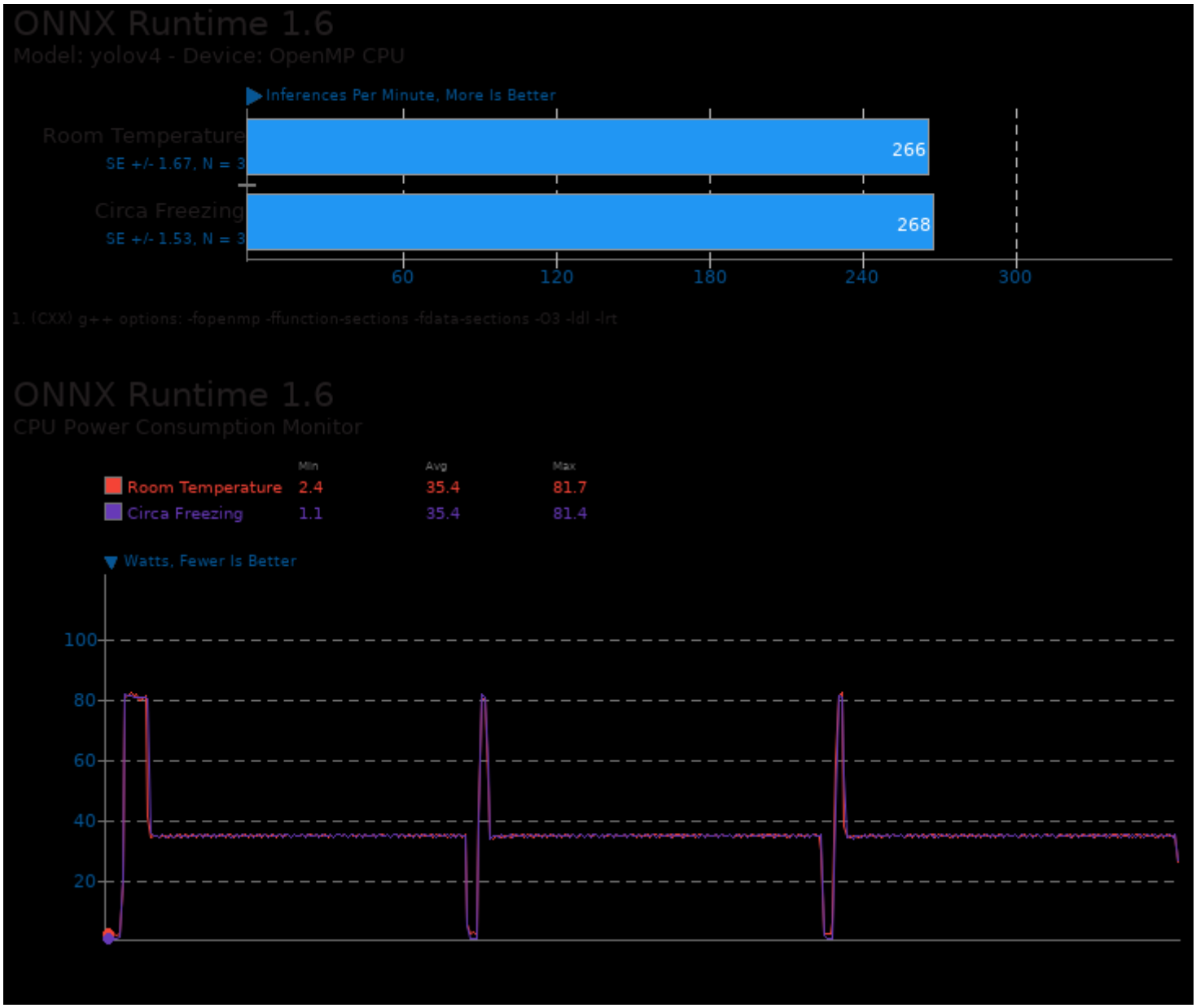
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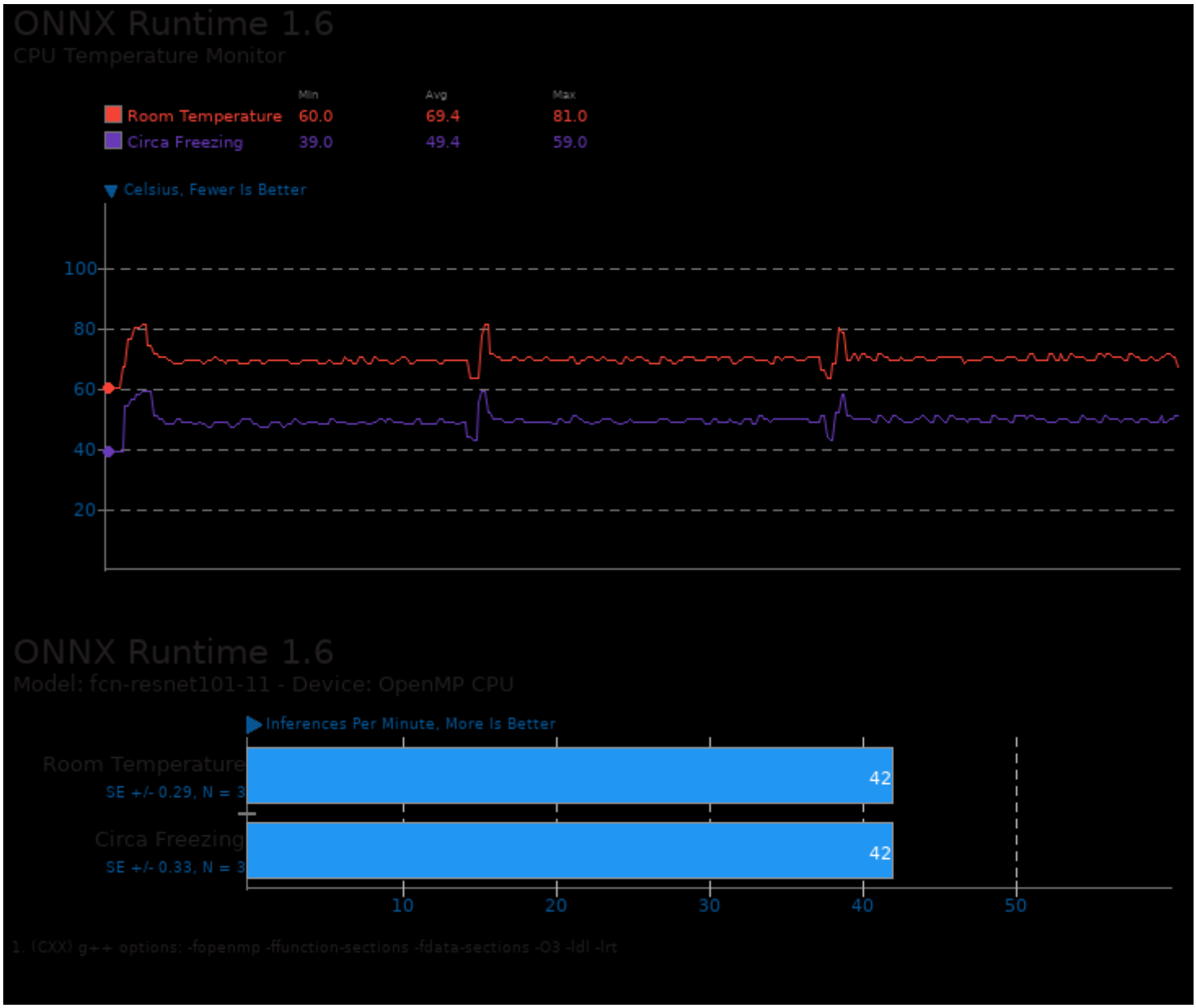


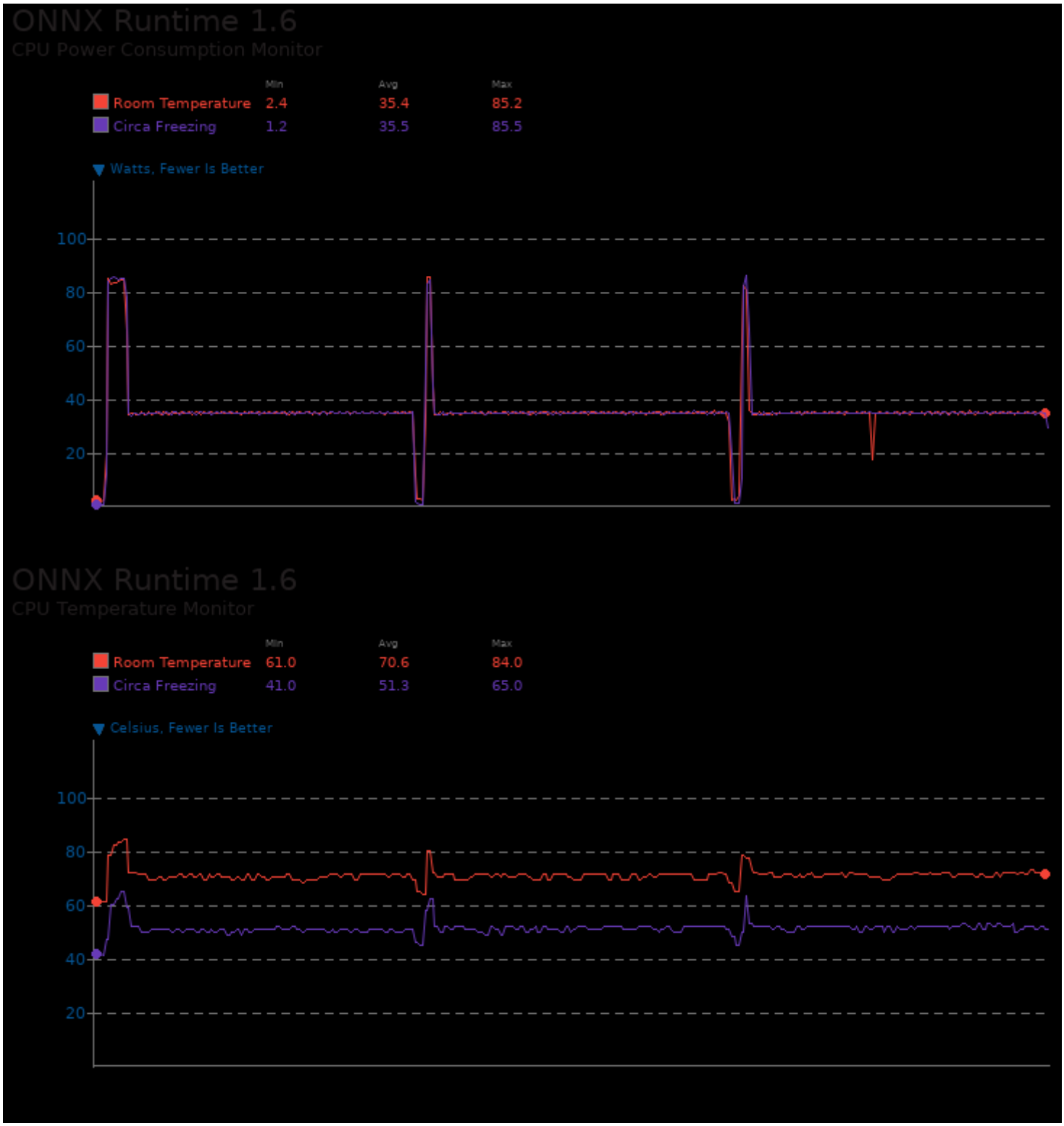
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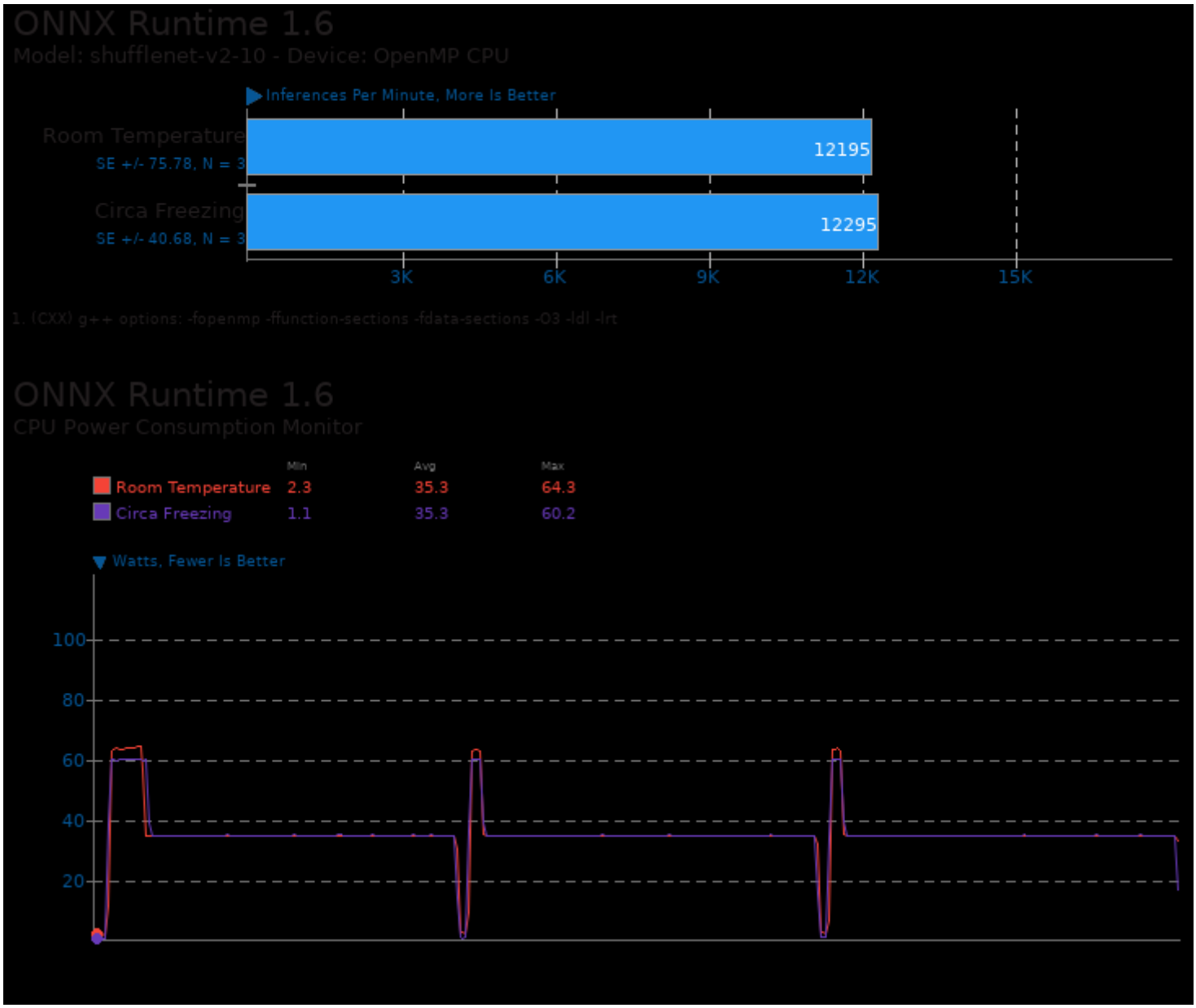


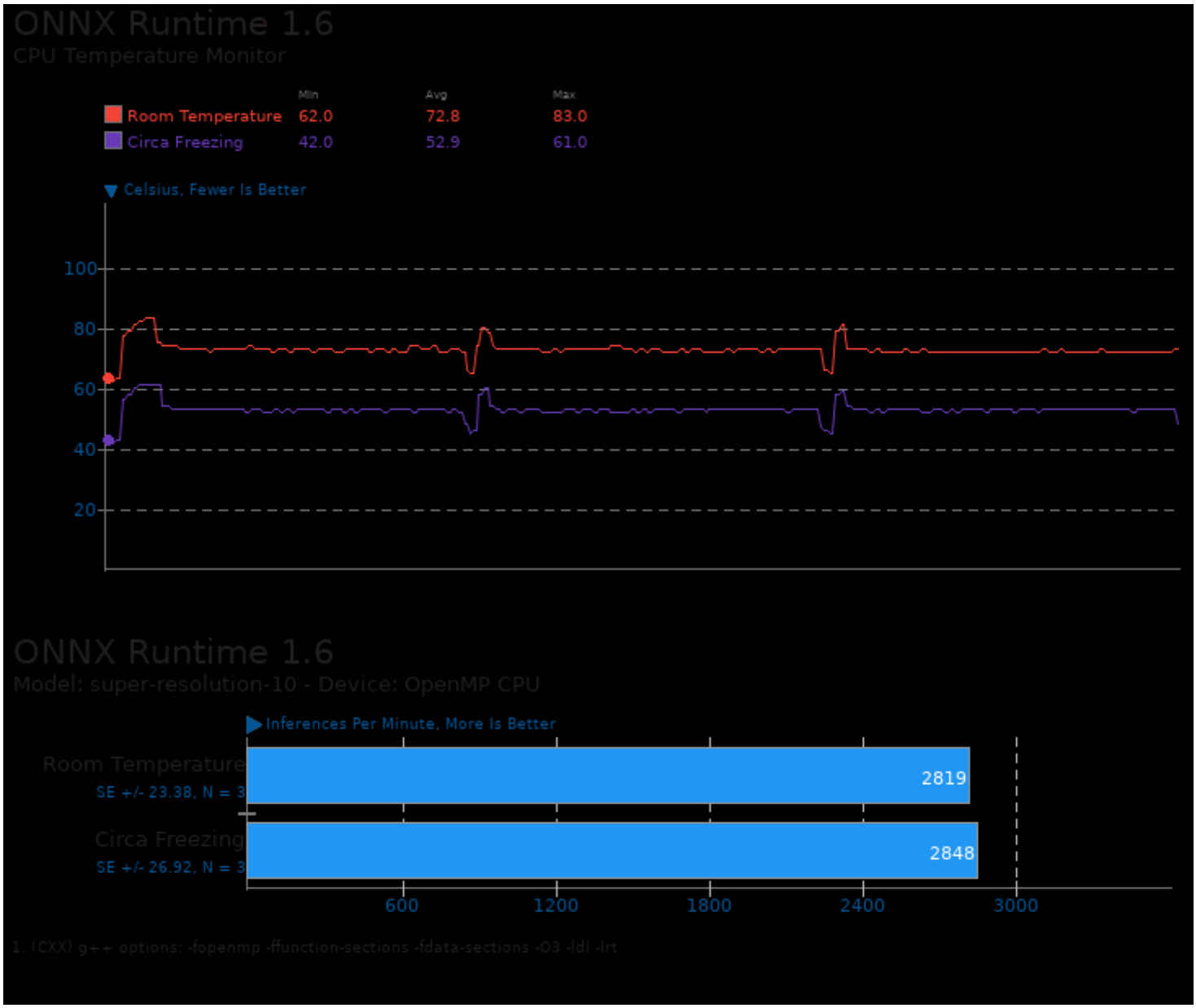
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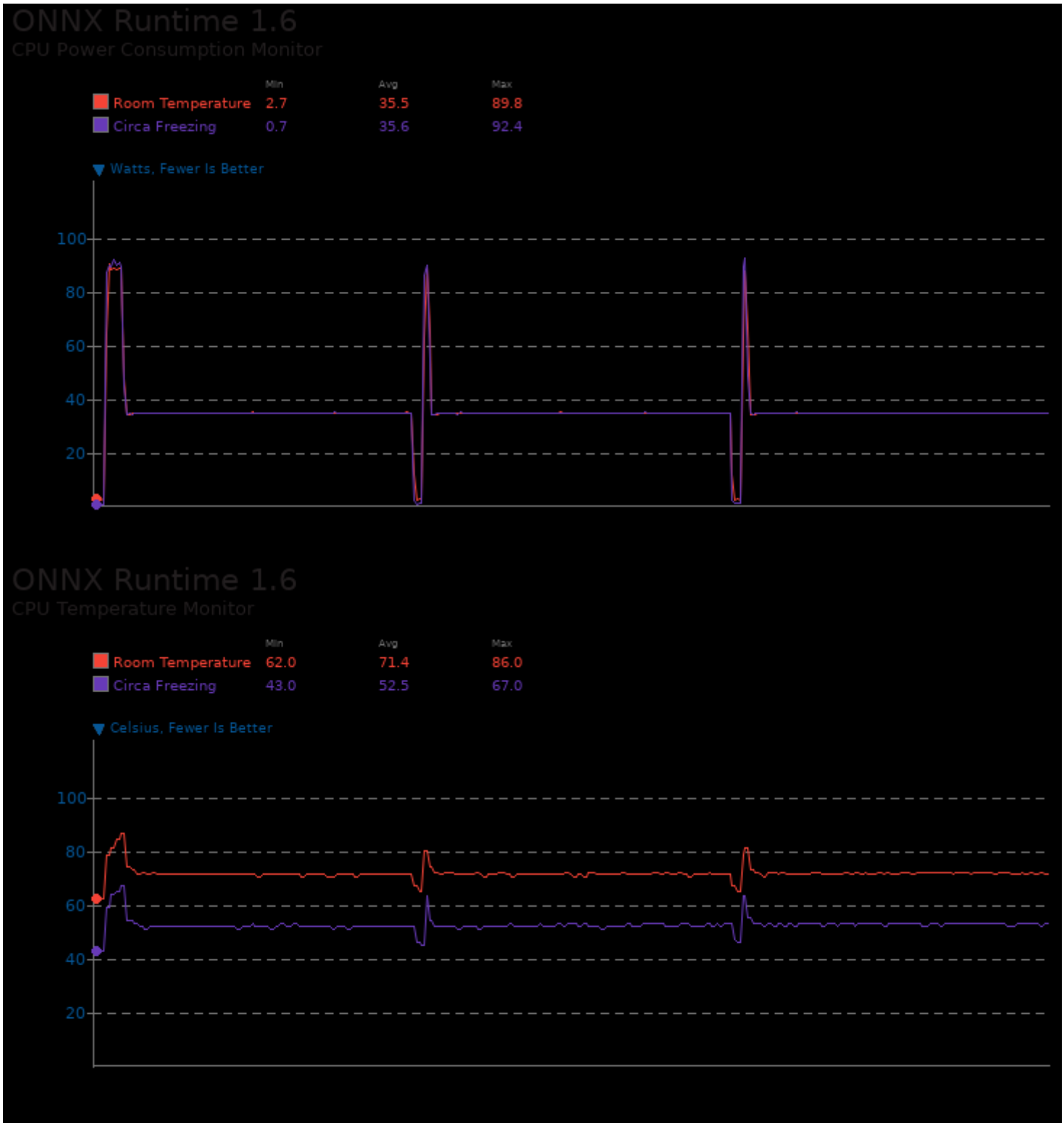

ONNX Runtime 1.6
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 60.0 69.4 81.0
Circa Freezing 39.0 49.4 59.0
Celsius, Fewer Is Better
100
80
60
40
20
ONNX Runtime 1.6
Model: fcn-resnet101-11 - Device: OpenMP CPU
Inferences Per Minute, More Is Better
Room Temperature
SE +/- 0.29, N = 3
42
Circa Freezing
SE +/- 0.33, N = 3
42
10
20
30
40
50
1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

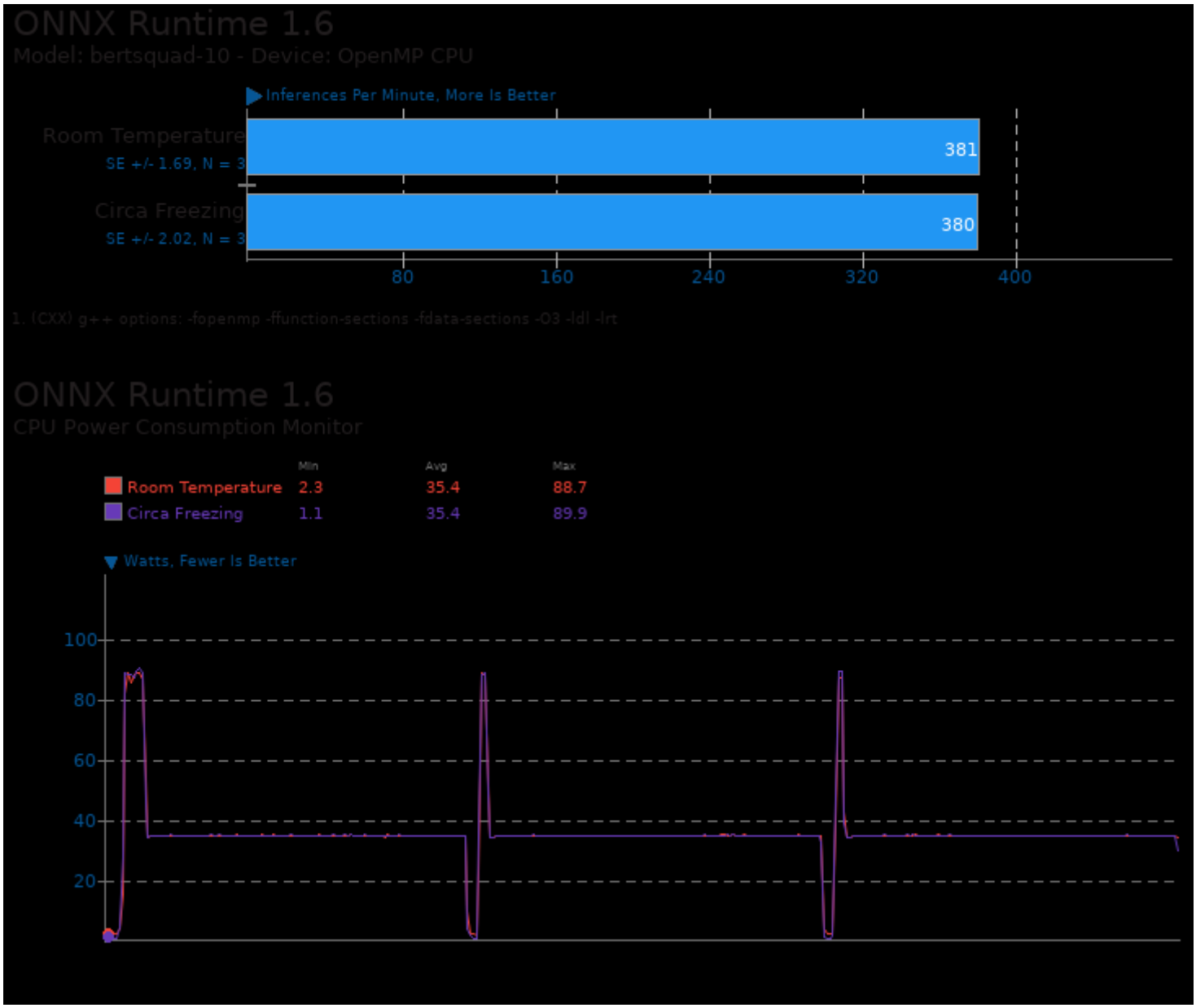

ONNX Runtime 1.6
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.4 35.4 85.2
Circa Freezing 1.2 35.5 85.5
Watts, Fewer Is Better
100
80
60
40
20
ONNX Runtime 1.6
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 61.0 70.6 84.0
Circa Freezing 41.0 51.3 65.0
Celsius, Fewer Is Better
100
80
60
40
20


ONNX Runtime 1.6
Model: shufflenet-v2-10 - Device: OpenMP CPU
Inferences Per Minute, More Is Better
Room Temperature
SE +/- 75.78, N = 3
12195
Circa Freezing
SE +/- 40.68, N = 3
12295
3K
6K
9K
12K
15K
1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt
ONNX Runtime 1.6
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.3 35.3 64.3
Circa Freezing 1.1 35.3 60.2
Watts, Fewer Is Better
100
80
60
40
20

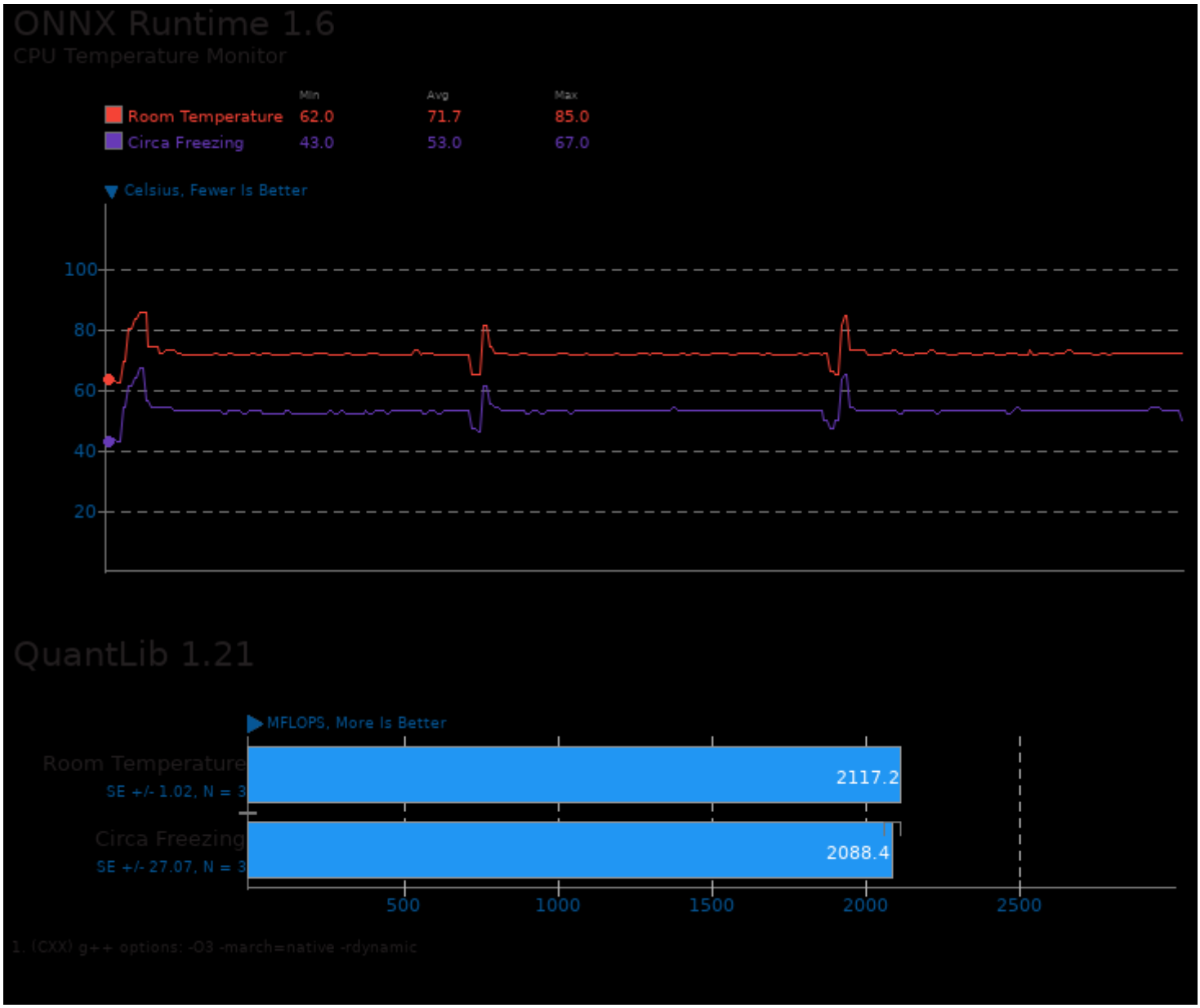

ONNX Runtime 1.6
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 62.0 72.8 83.0
Circa Freezing 42.0 52.9 61.0
Celsius, Fewer Is Better
100
80
60
40
20
ONNX Runtime 1.6
Model: super-resolution-10 - Device: OpenMP CPU
Inferences Per Minute, More Is Better
Room Temperature
SE +/- 23.38, N = 3
2819
Circa Freezing
SE +/- 26.92, N = 3
2848
600
1200
1800
2400
3000
1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

OnLogic Helix 500 Core i7 10700T



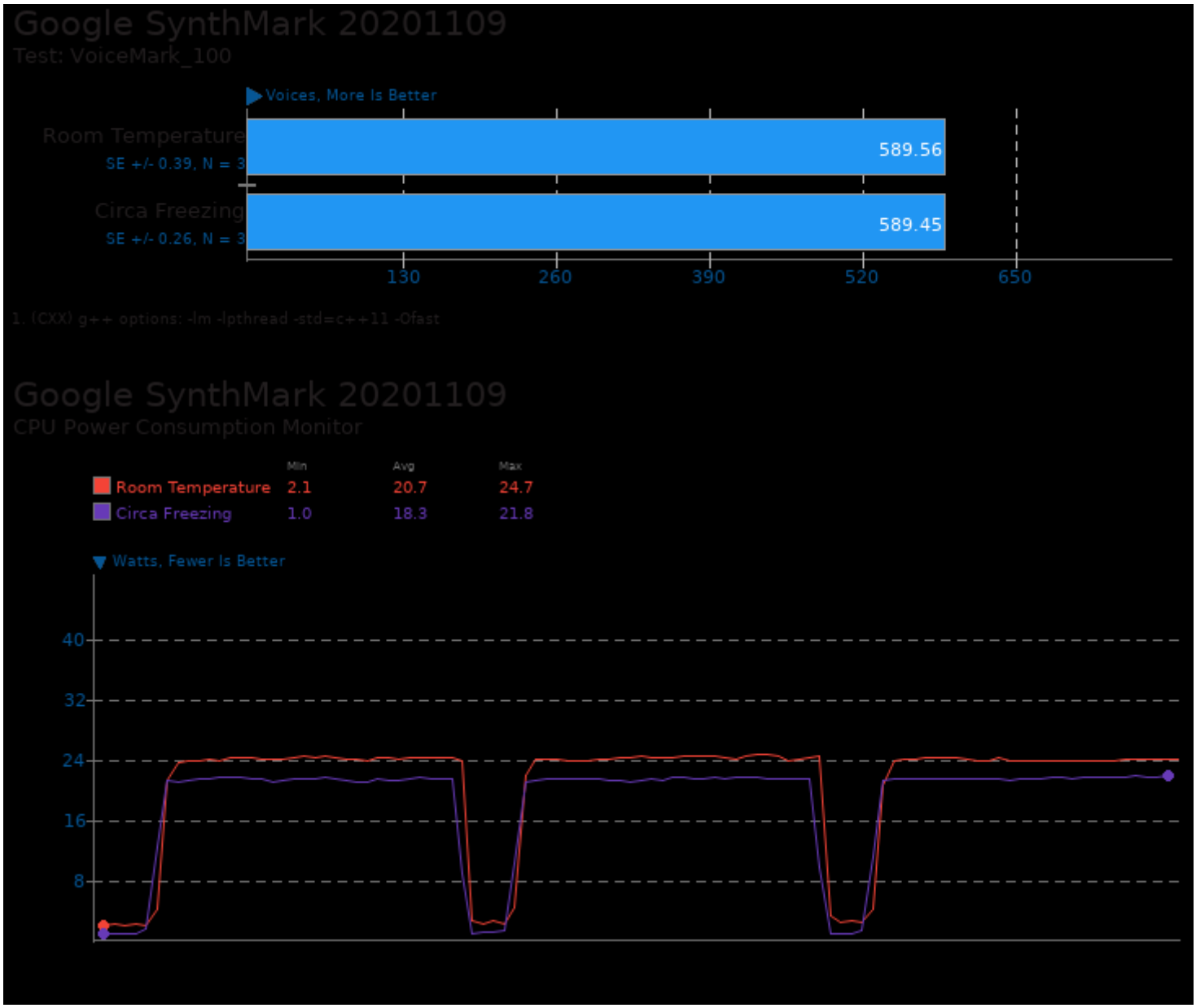

ONNX Runtime 1.6
Model: bertsquad-10 - Device: OpenMP CPU
Inferences Per Minute, More Is Better
Room Temperature
SE +/- 1.69, N = 3
381
Circa Freezing
SE +/- 2.02, N = 3
380
80
160
240
320
400
1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt
ONNX Runtime 1.6
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.3 35.4 88.7
Circa Freezing 1.1 35.4 89.9
Watts, Fewer Is Better
100
80
60
40
20

OnLogic Helix 500 Core i7 10700T

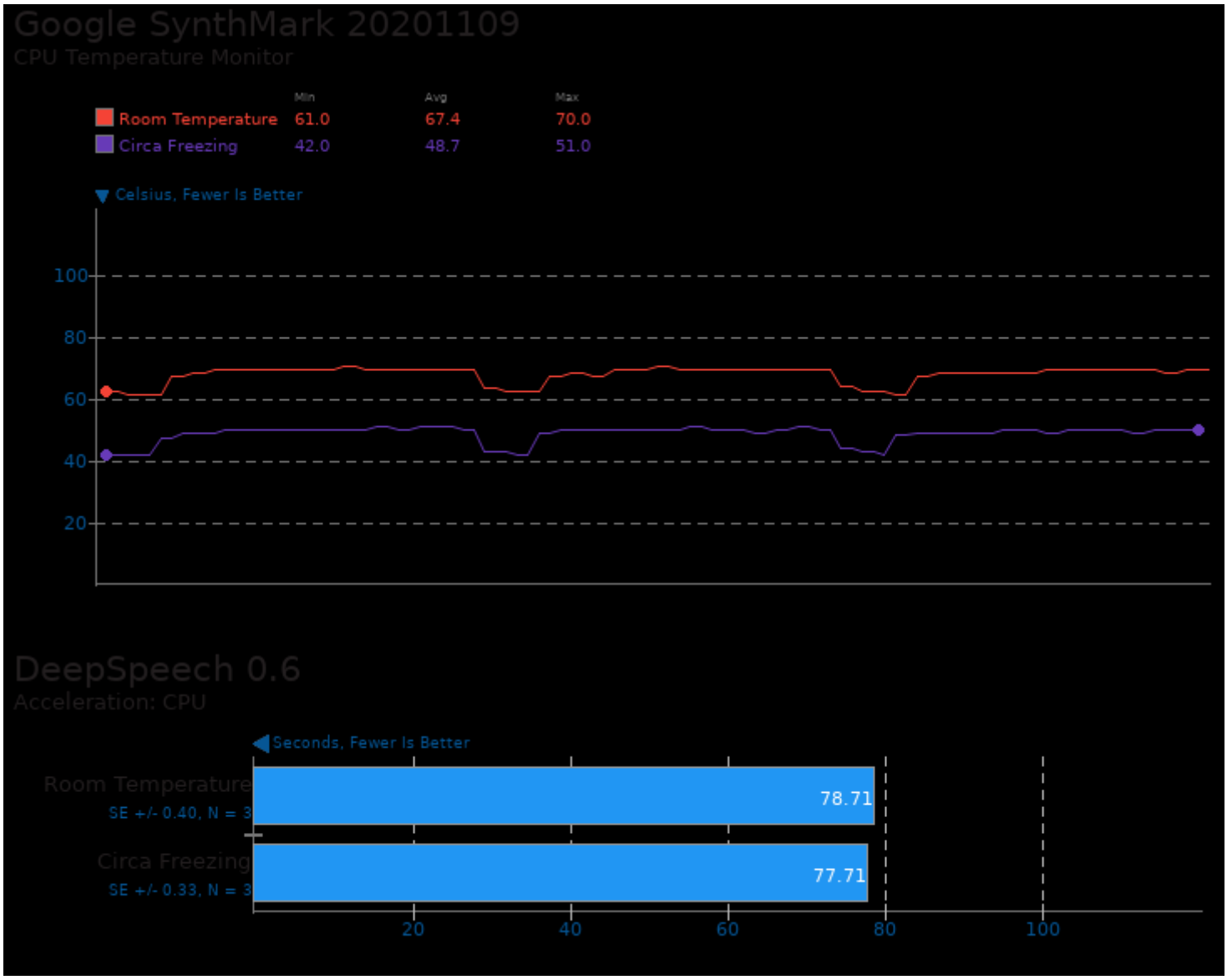


OnLogic Helix 500 Core i7 10700T

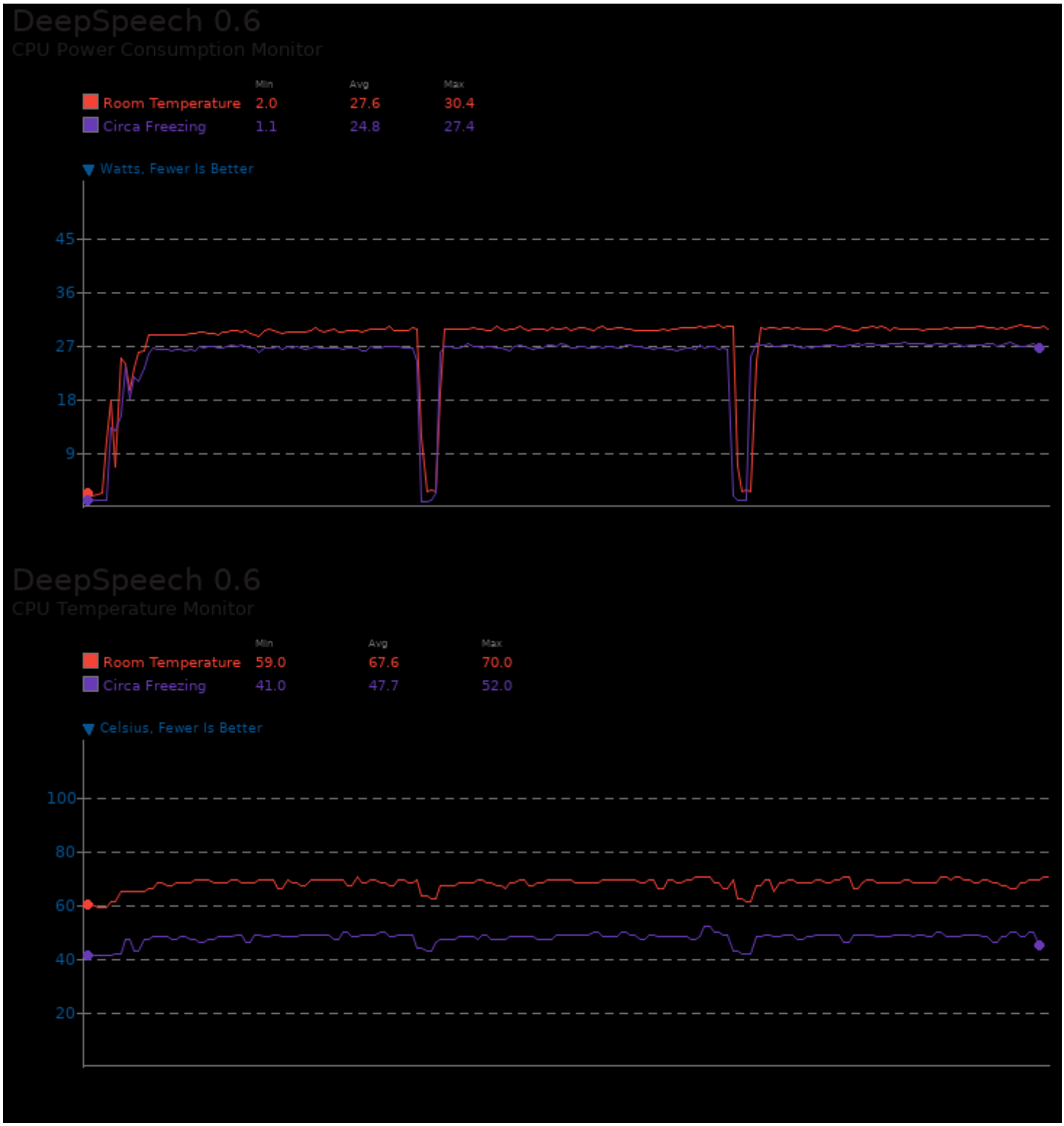


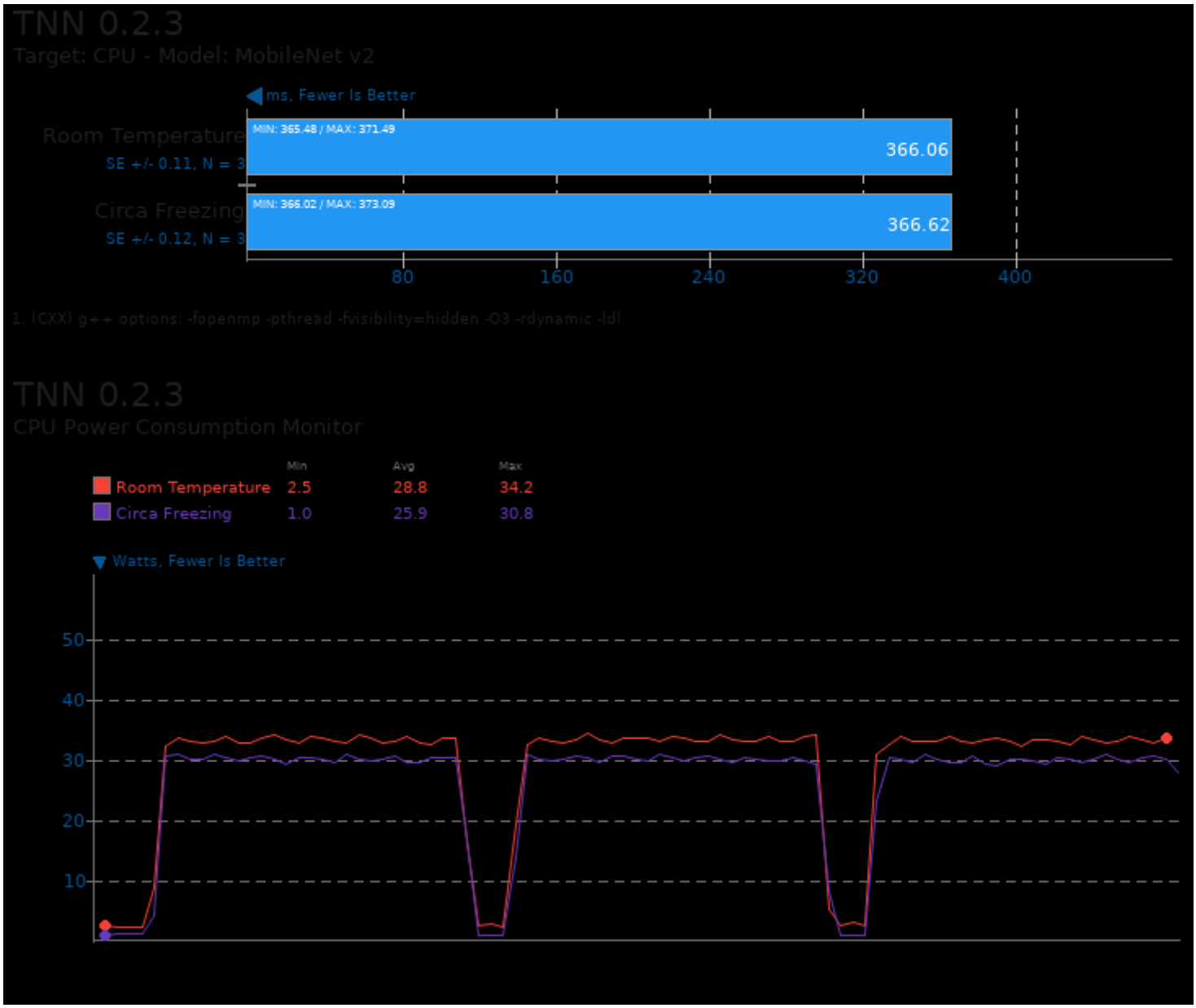

Google SynthMark 20201109
Test: VoiceMark_100
Voices, More Is Better
Room Temperature
SE +/- 0.39, N = 3
589.56
Circa Freezing
SE +/- 0.26, N = 3
589.45
130
260
390
520
650
1. (CXX) g++ options: -lm -lpthread -std=c++11 -Ofast
Google SynthMark 20201109
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.1 20.7 24.7
Circa Freezing 1.0 18.3 21.8
Watts, Fewer Is Better
40
32
24
16
8

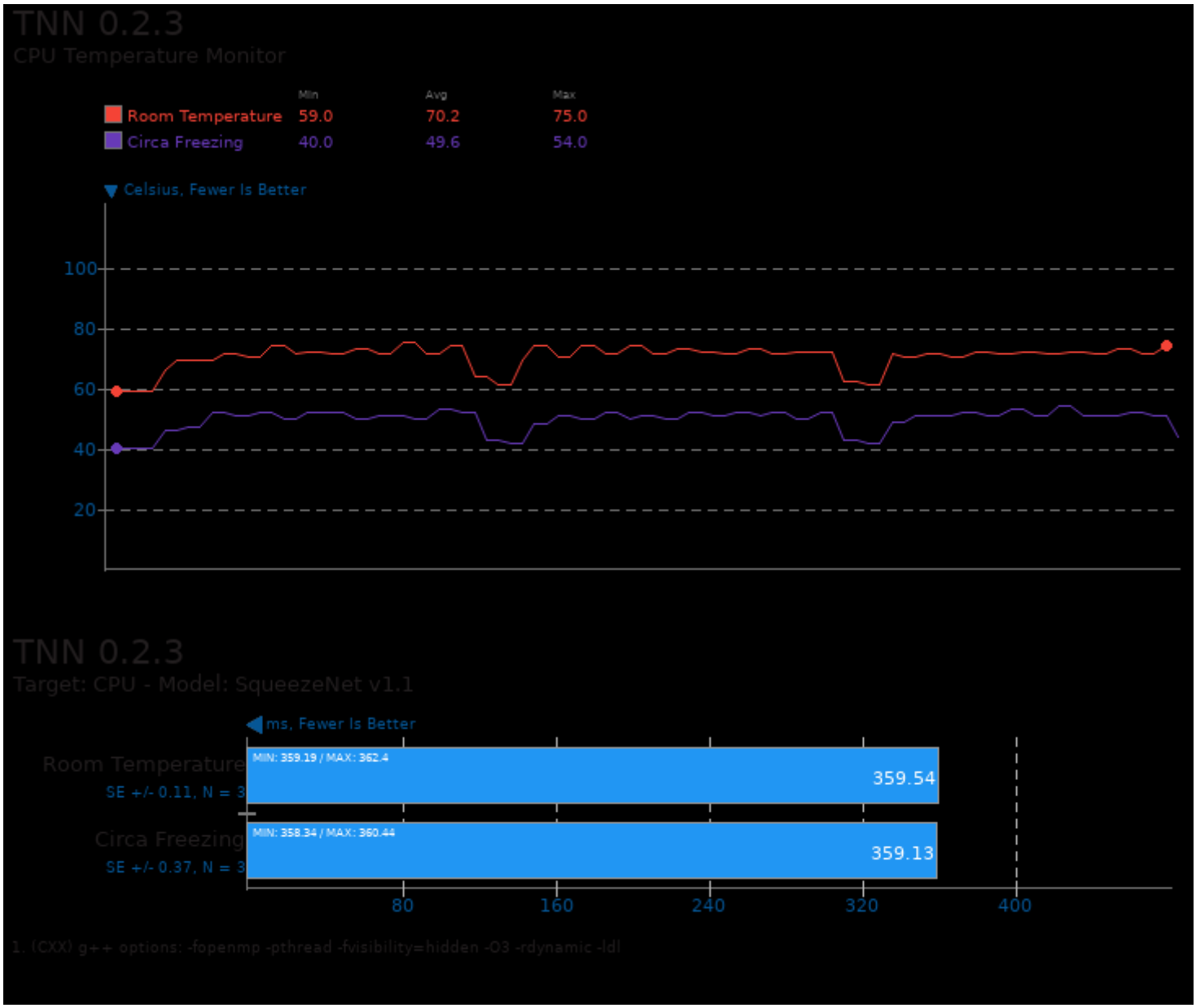
OnLogic Helix 500 Core i7 10700T



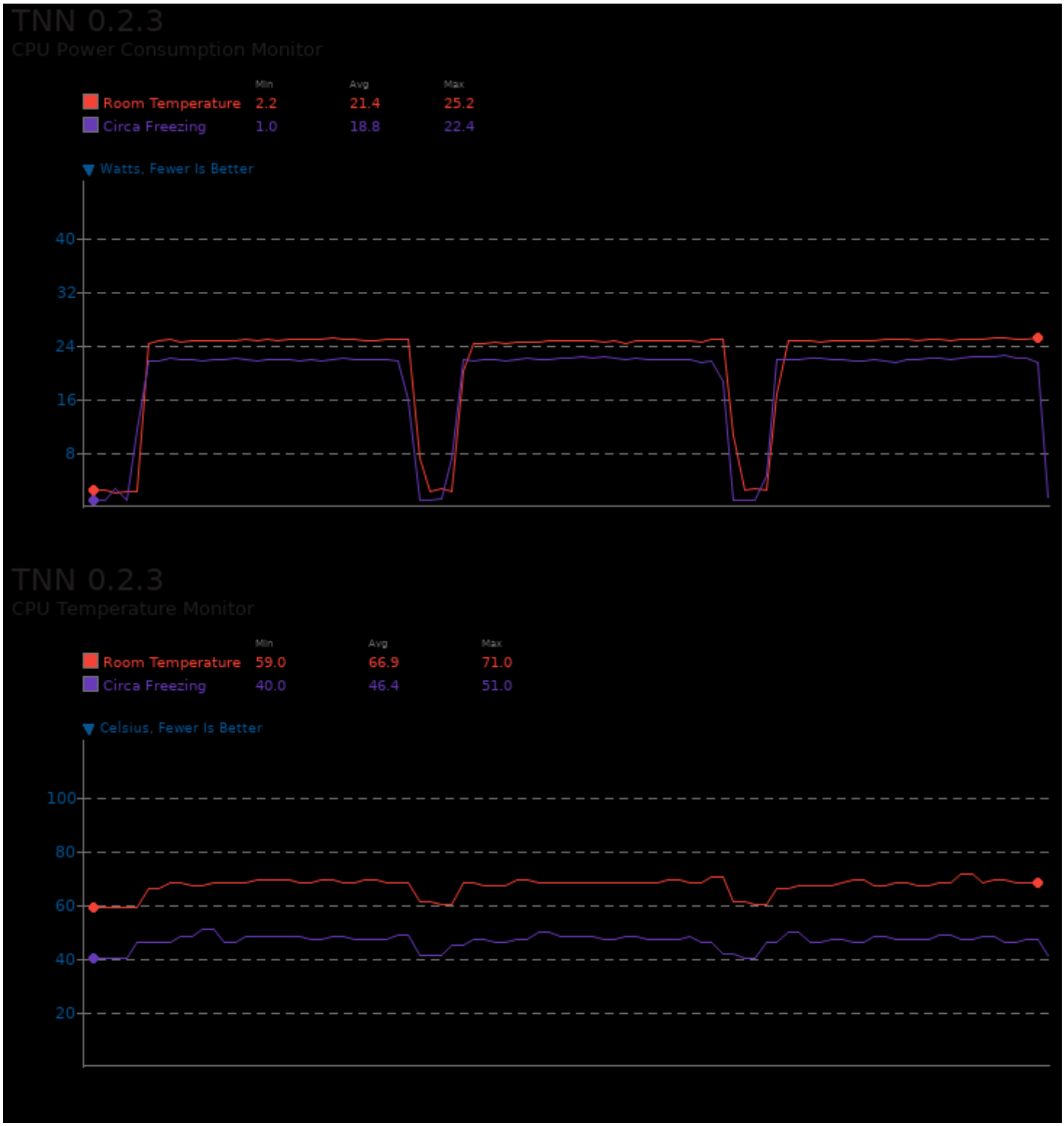
OnLogic Helix 500 Core i7 10700T

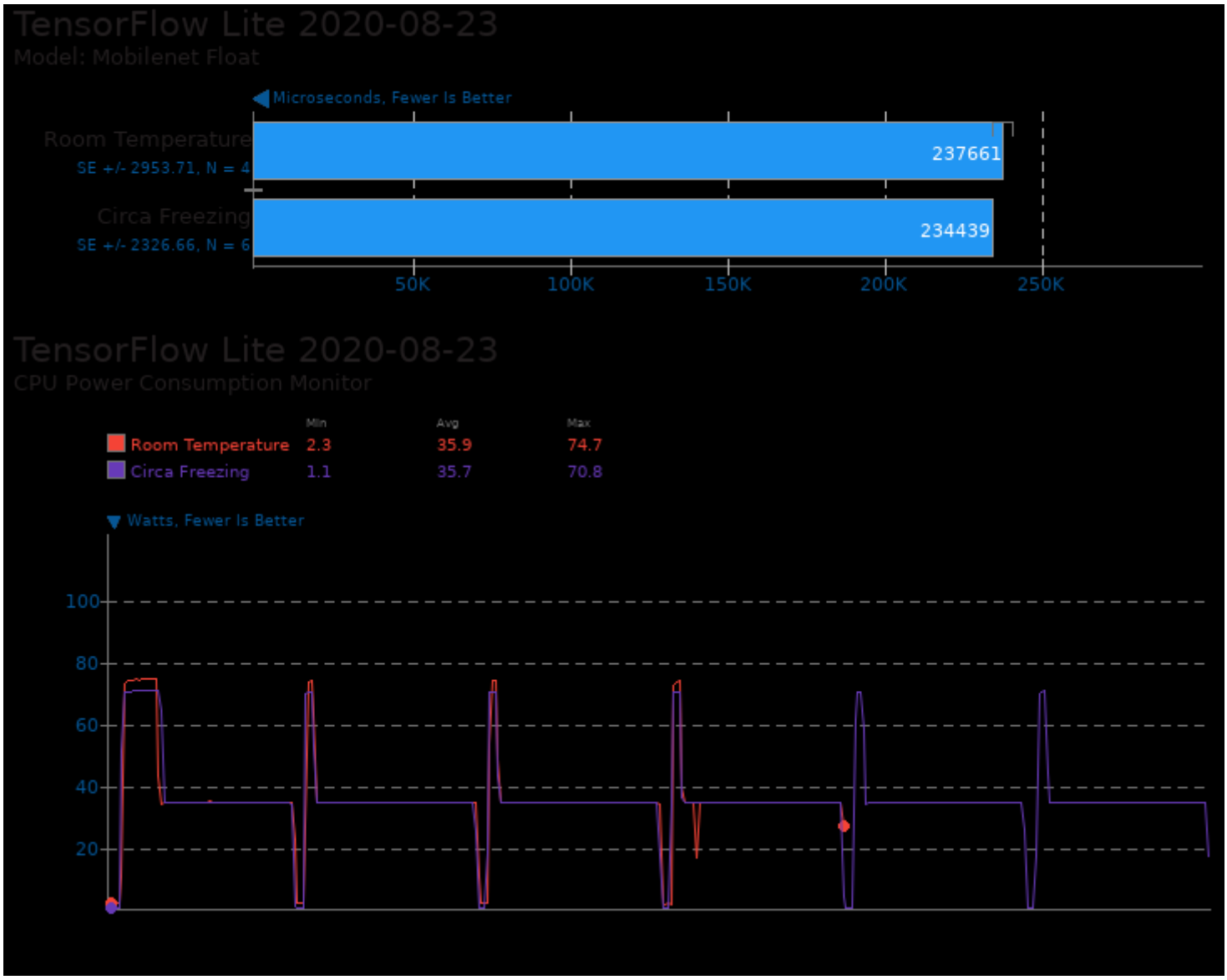


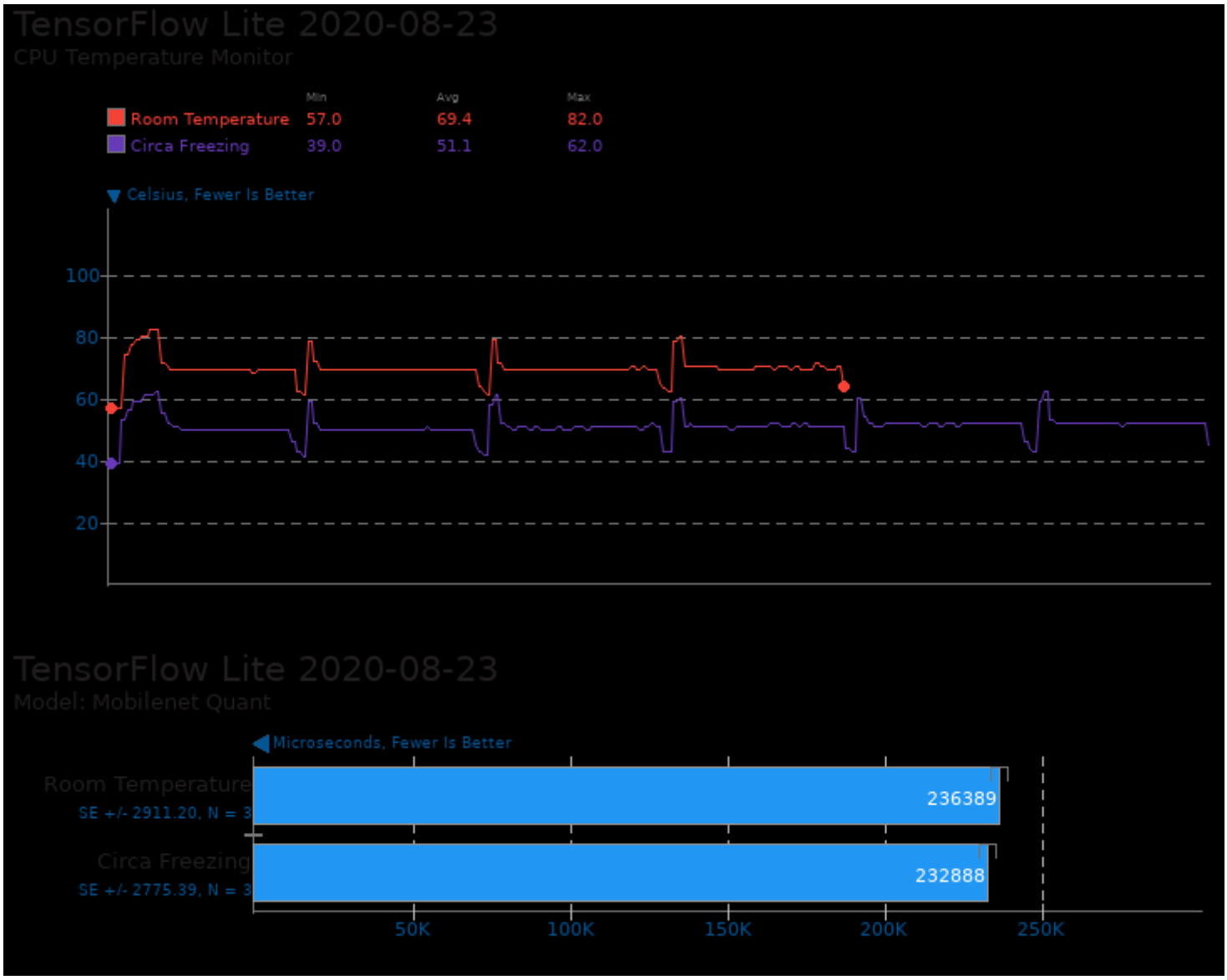

TNN 0.2.3
Target: CPU - Model: MobileNet v2
ms, Fewer Is Better
Room Temperature
SE +/- 0.11, N = 3
MIN: 365.48 / MAX: 371.49
366.06
Circa Freezing
SE +/- 0.12, N = 3
MIN: 366.02 / MAX: 373.09
366.62
80
160
240
320
400
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -O3 -rdynamic -ldl
TNN 0.2.3
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.5 28.8 34.2
Circa Freezing 1.0 25.9 30.8
Watts, Fewer Is Better
50
40
30
20
10

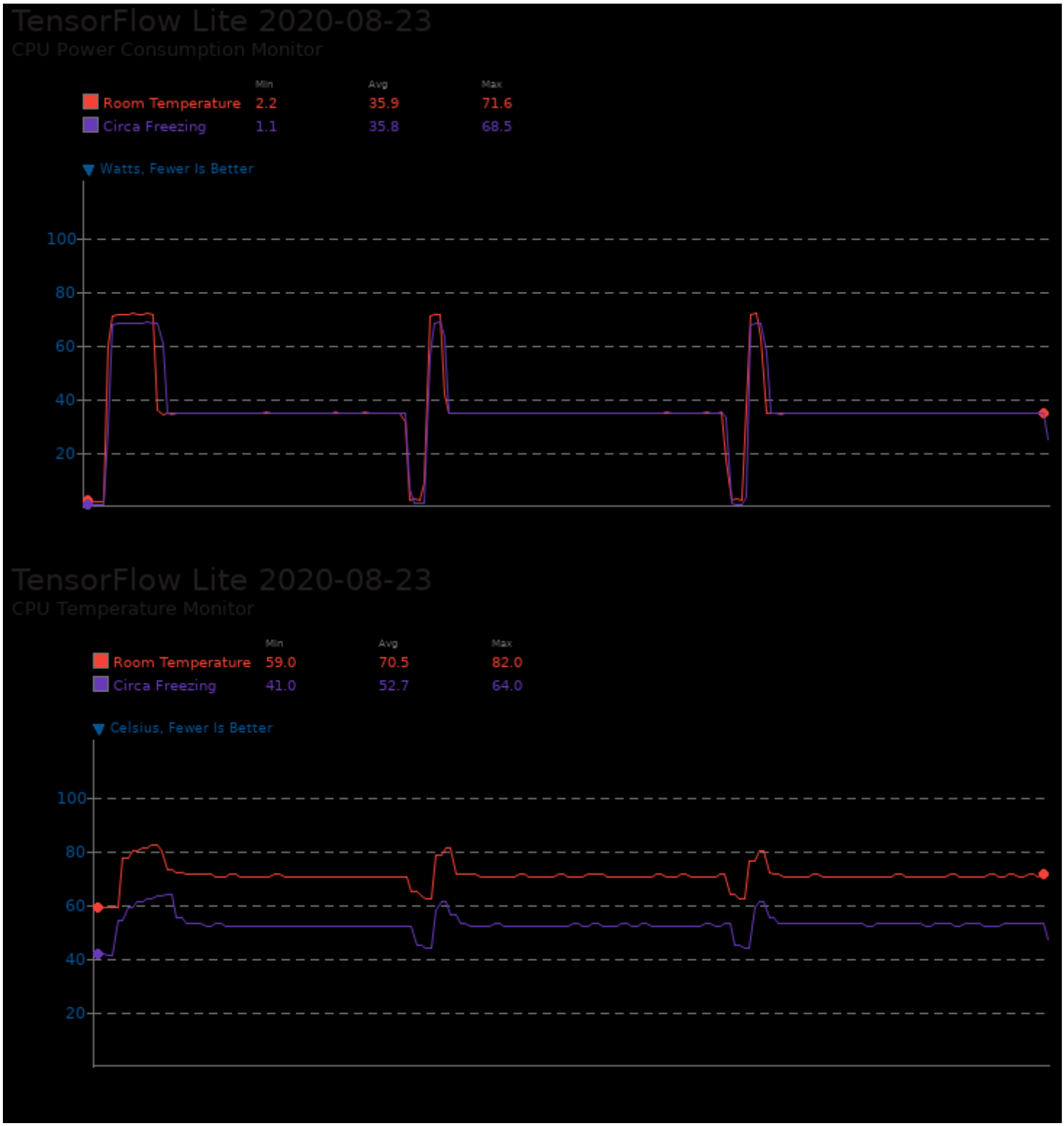

TNN 0.2.3
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 59.0 70.2 75.0
Circa Freezing 40.0 49.6 54.0
Celsius, Fewer Is Better
100
80
60
40
20
TNN 0.2.3
Target: CPU - Model: SqueezeNet v1.1
ms, Fewer Is Better
Room Temperature
SE +/- 0.11, N = 3
MIN: 359.19 / MAX: 362.4
359.54
Circa Freezing
SE +/- 0.37, N = 3
MIN: 358.34 / MAX: 360.44
359.13
80
160
240
320
400
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -O3 -rdynamic -ldl

OnLogic Helix 500 Core i7 10700T

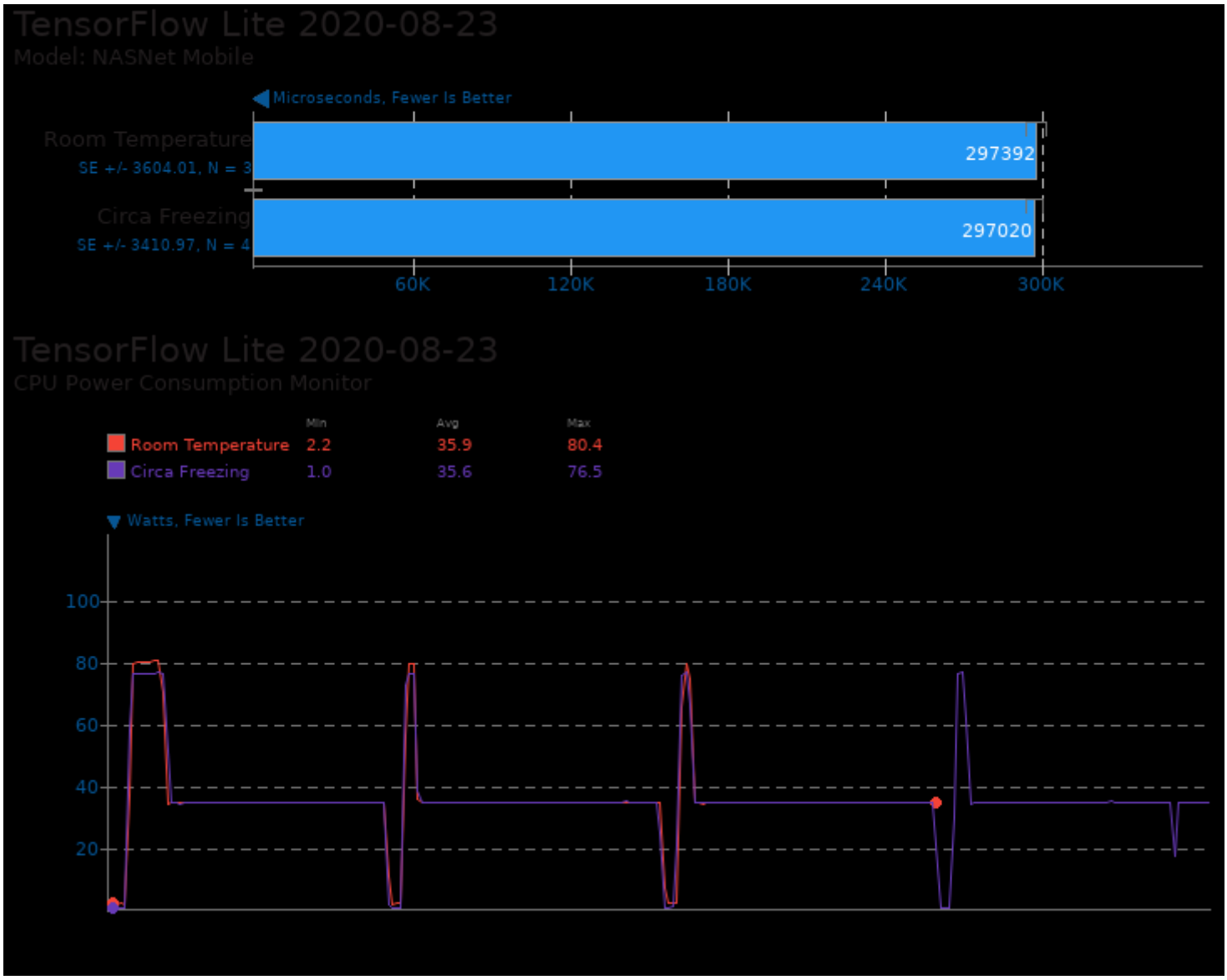


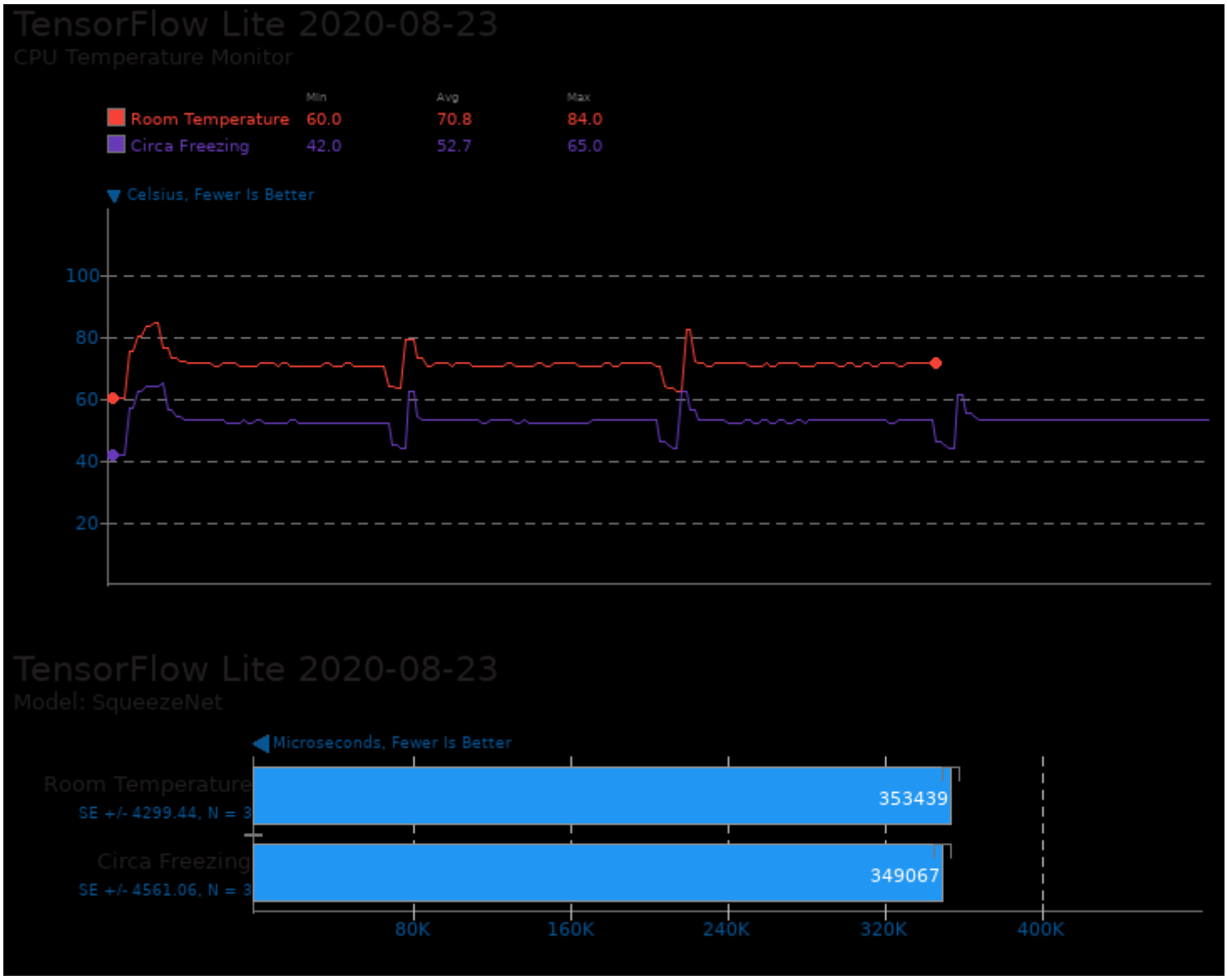

TensorFlow Lite 2020-08-23
Model: Mobilenet Float
Microseconds, Fewer Is Better
Room Temperature
SE +/- 2953.71, N = 4
237661
Circa Freezing
SE +/- 2326.66, N = 6
234439
50K
100K
150K
200K
250K
TensorFlow Lite 2020-08-23
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.3 35.9 74.7
Circa Freezing 1.1 35.7 70.8
Watts, Fewer Is Better
100
80
60
40
20

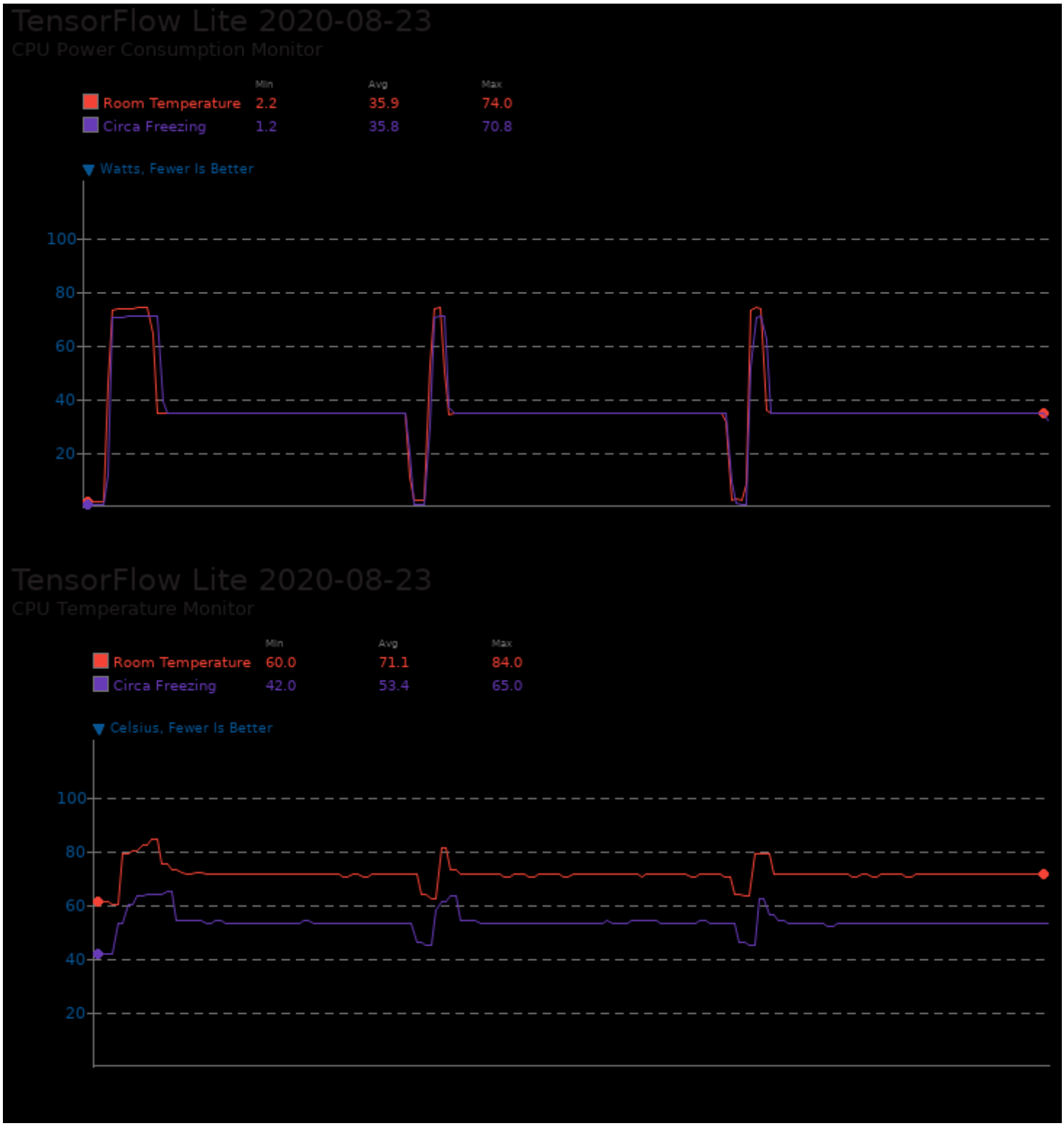

TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 57.0 69.4 82.0
Circa Freezing 39.0 51.1 62.0
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: Mobilenet Quant
Microseconds, Fewer Is Better
Room Temperature
SE +/- 2911.20, N = 3
236389
Circa Freezing
SE +/- 2775.39, N = 3
232888
50K
100K
150K
200K
250K


TensorFlow Lite 2020-08-23
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.2 35.9 71.6
Circa Freezing 1.1 35.8 68.5
Watts, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 59.0 70.5 82.0
Circa Freezing 41.0 52.7 64.0
Celsius, Fewer Is Better
100
80
60
40
20

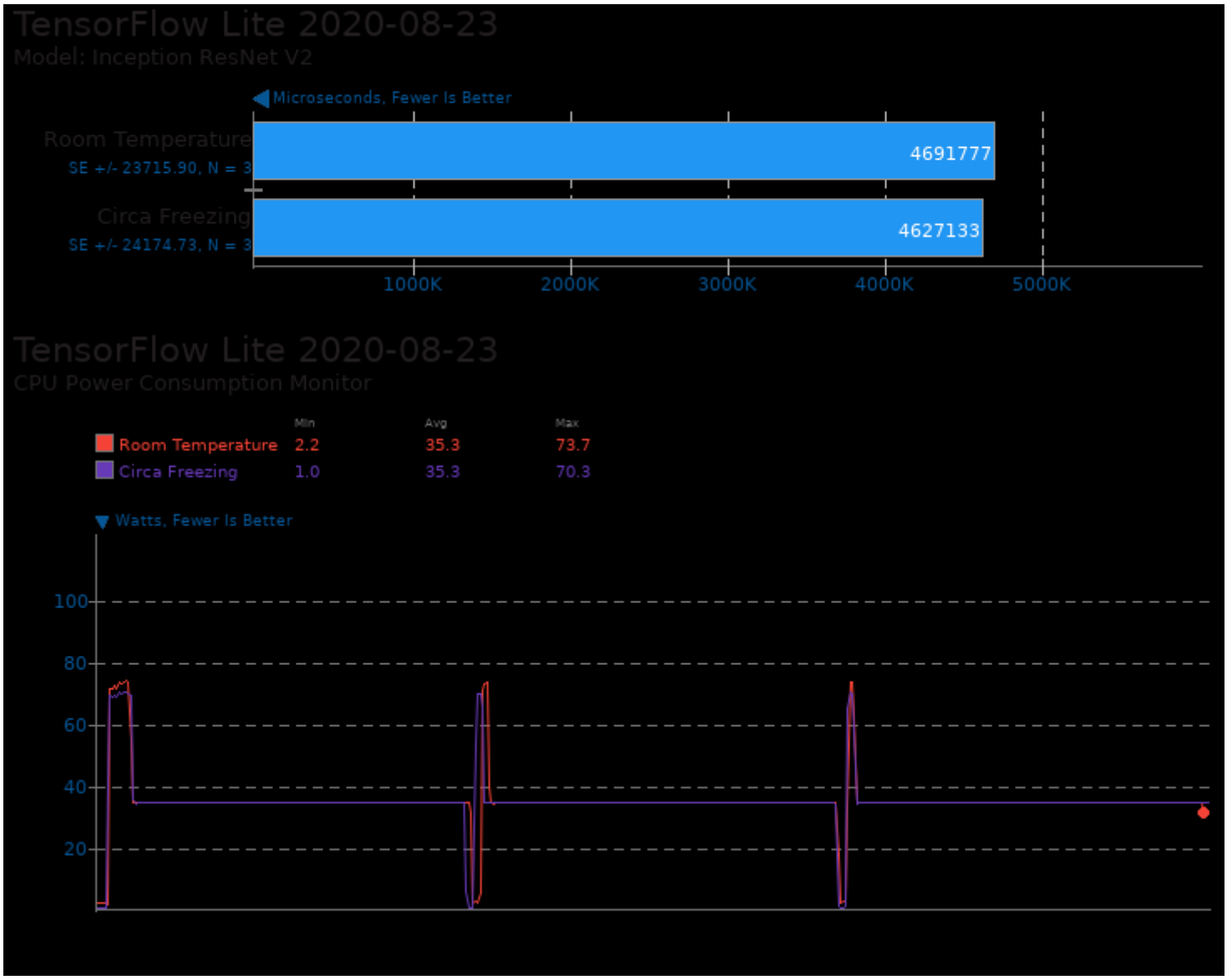
OnLogic Helix 500 Core i7 10700T

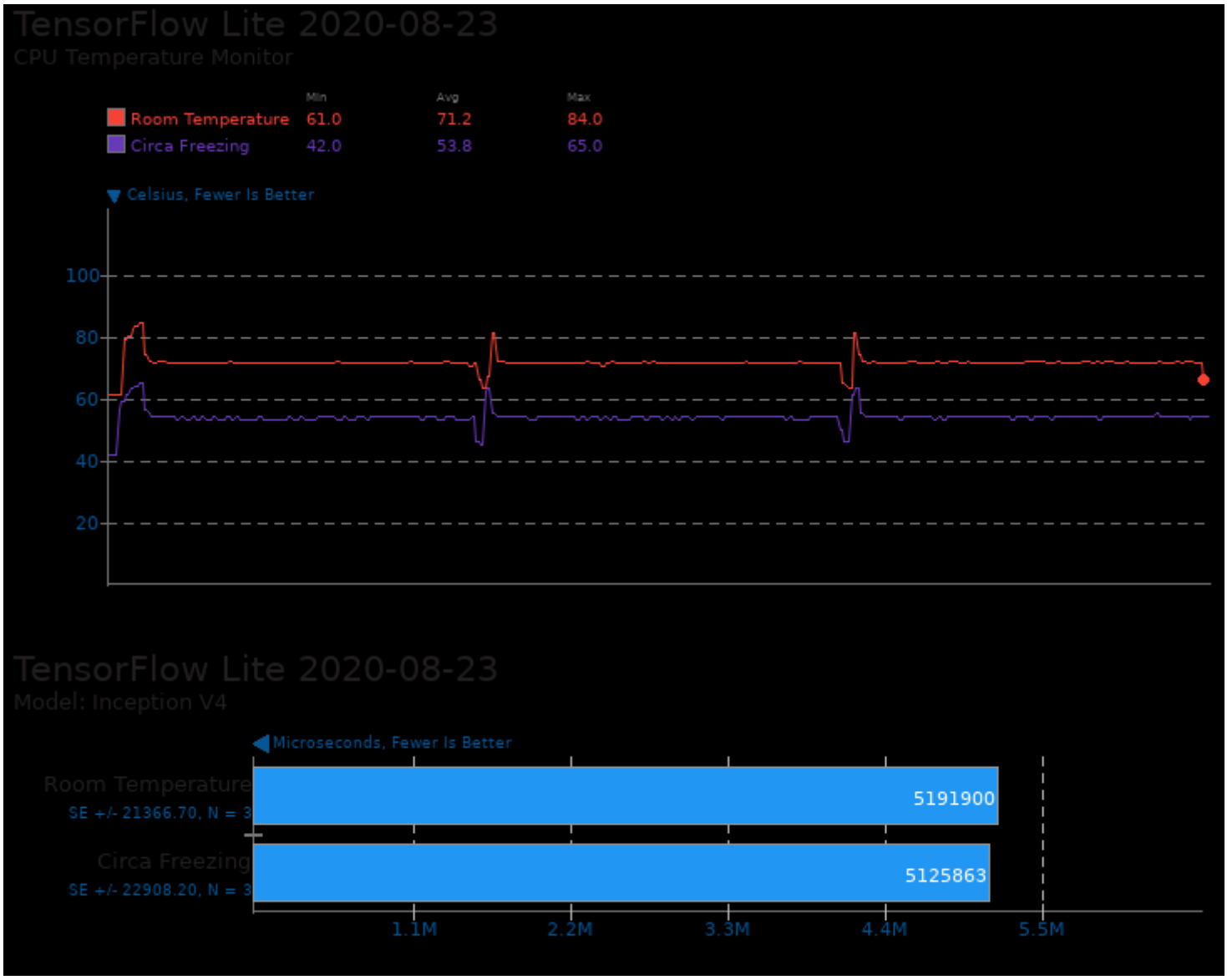


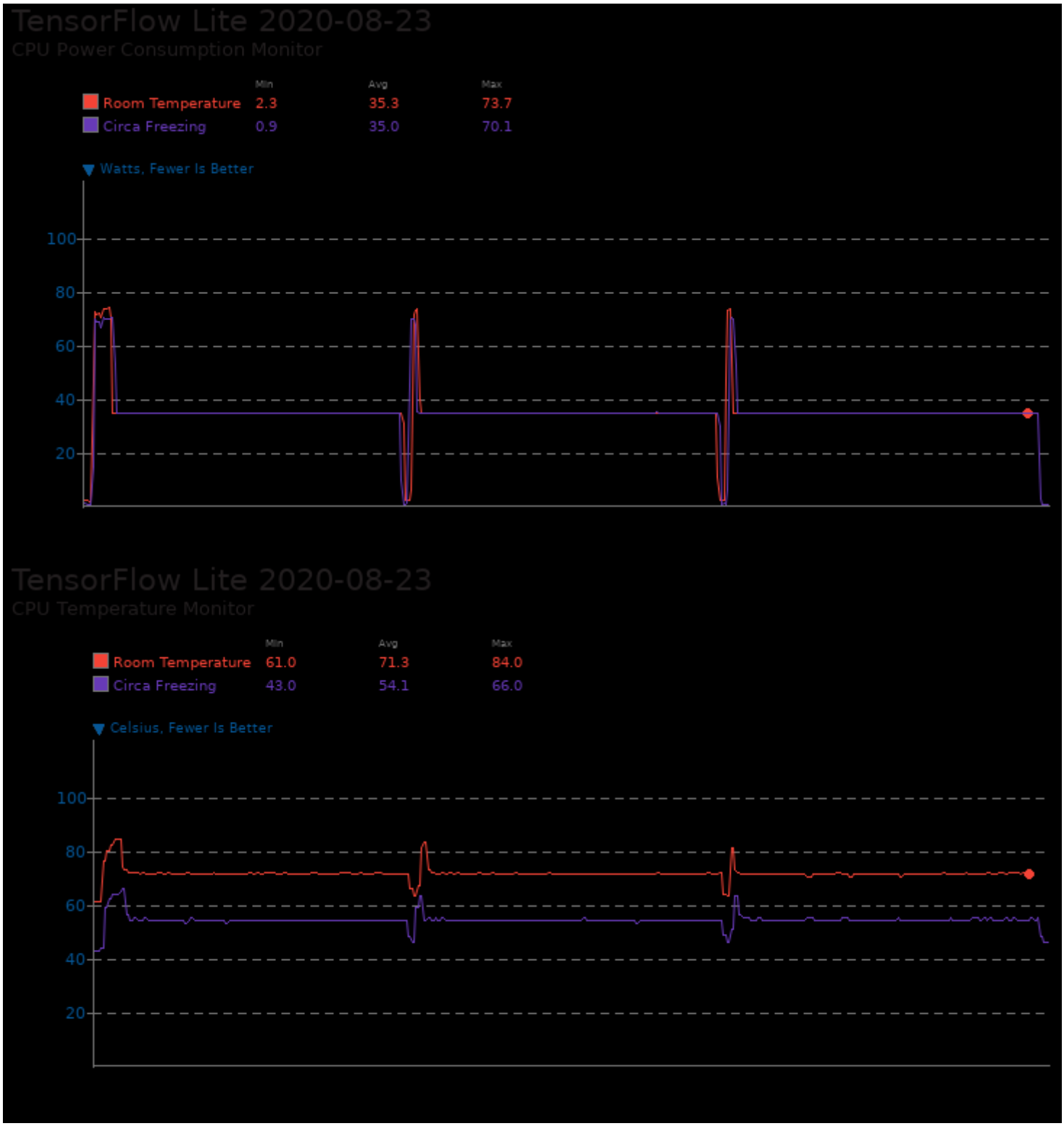

TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 60.0 70.8 84.0
Circa Freezing 42.0 52.7 65.0
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: SqueezeNet
Microseconds, Fewer Is Better
Room Temperature
SE +/- 4299.44, N = 3
353439
Circa Freezing
SE +/- 4561.06, N = 3
349067
80K
160K
240K
320K
400K


TensorFlow Lite 2020-08-23
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.2 35.9 74.0
Circa Freezing 1.2 35.8 70.8
Watts, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 60.0 71.1 84.0
Circa Freezing 42.0 53.4 65.0
Celsius, Fewer Is Better
100
80
60
40
20

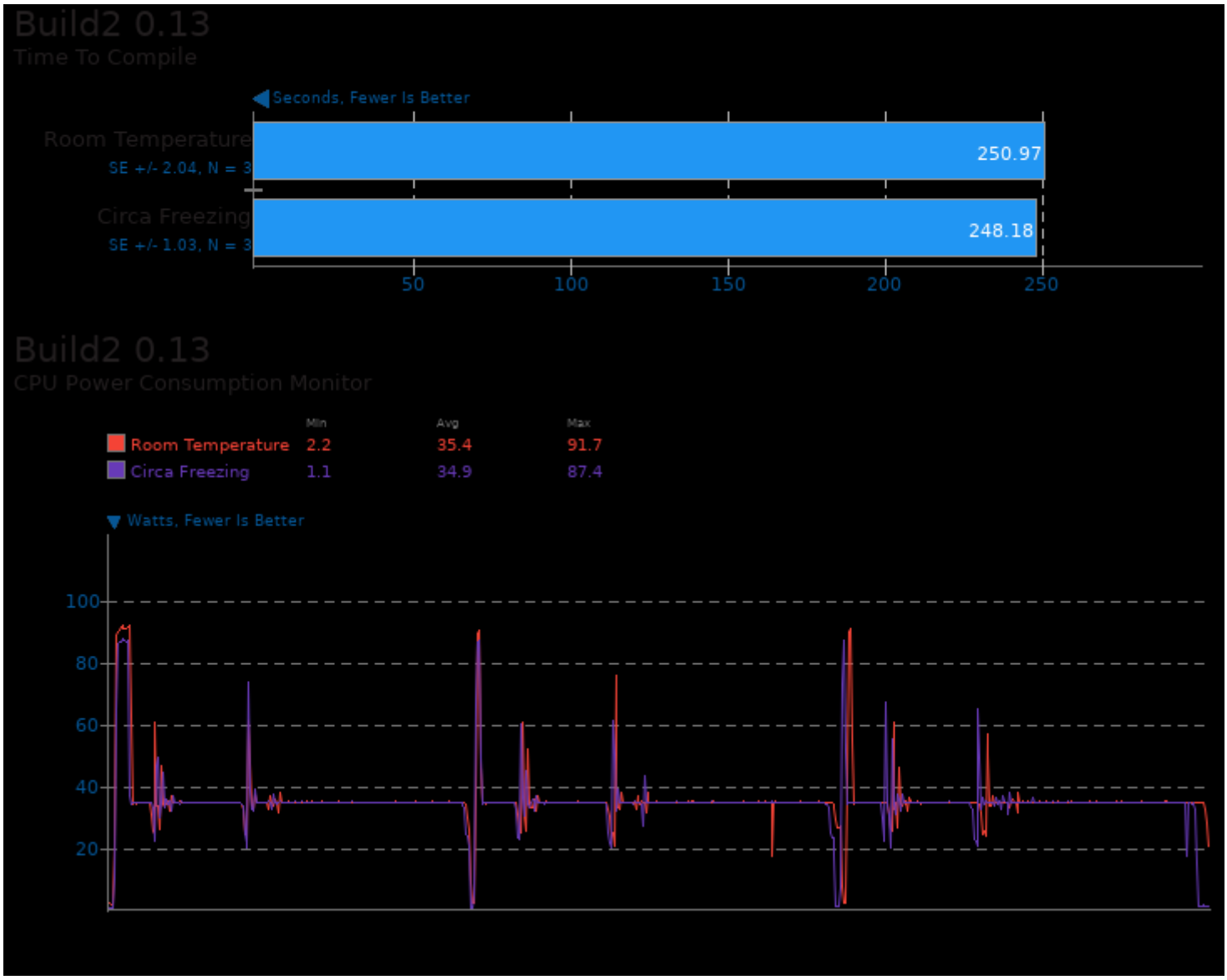
OnLogic Helix 500 Core i7 10700T

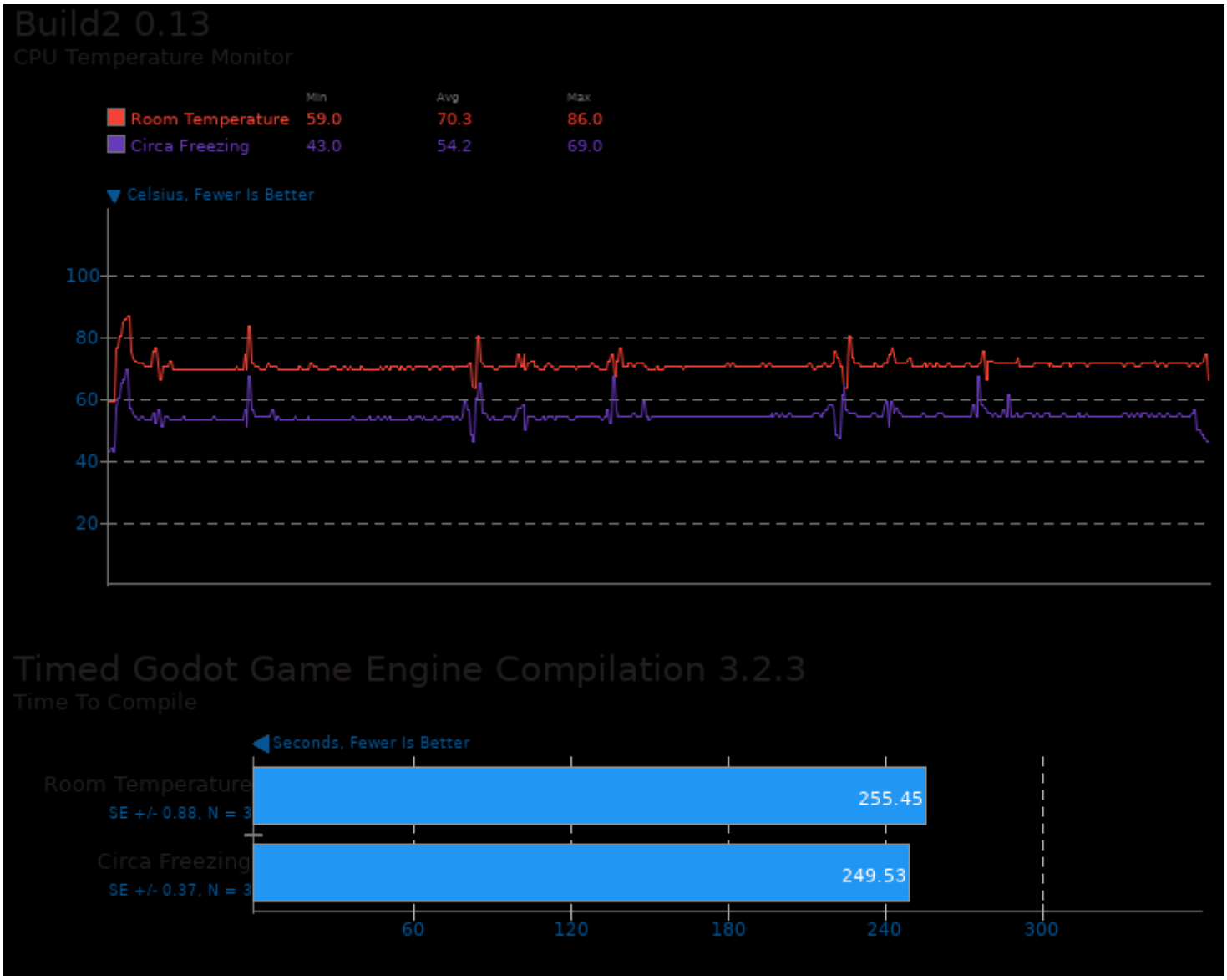



TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 61.0 71.2 84.0
Circa Freezing 42.0 53.8 65.0
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: Inception V4
Microseconds, Fewer Is Better
Room Temperature
SE +/- 21366.70, N = 3
5191900
Circa Freezing
SE +/- 22908.20, N = 3
5125863
1.1M
2.2M
3.3M
4.4M
5.5M

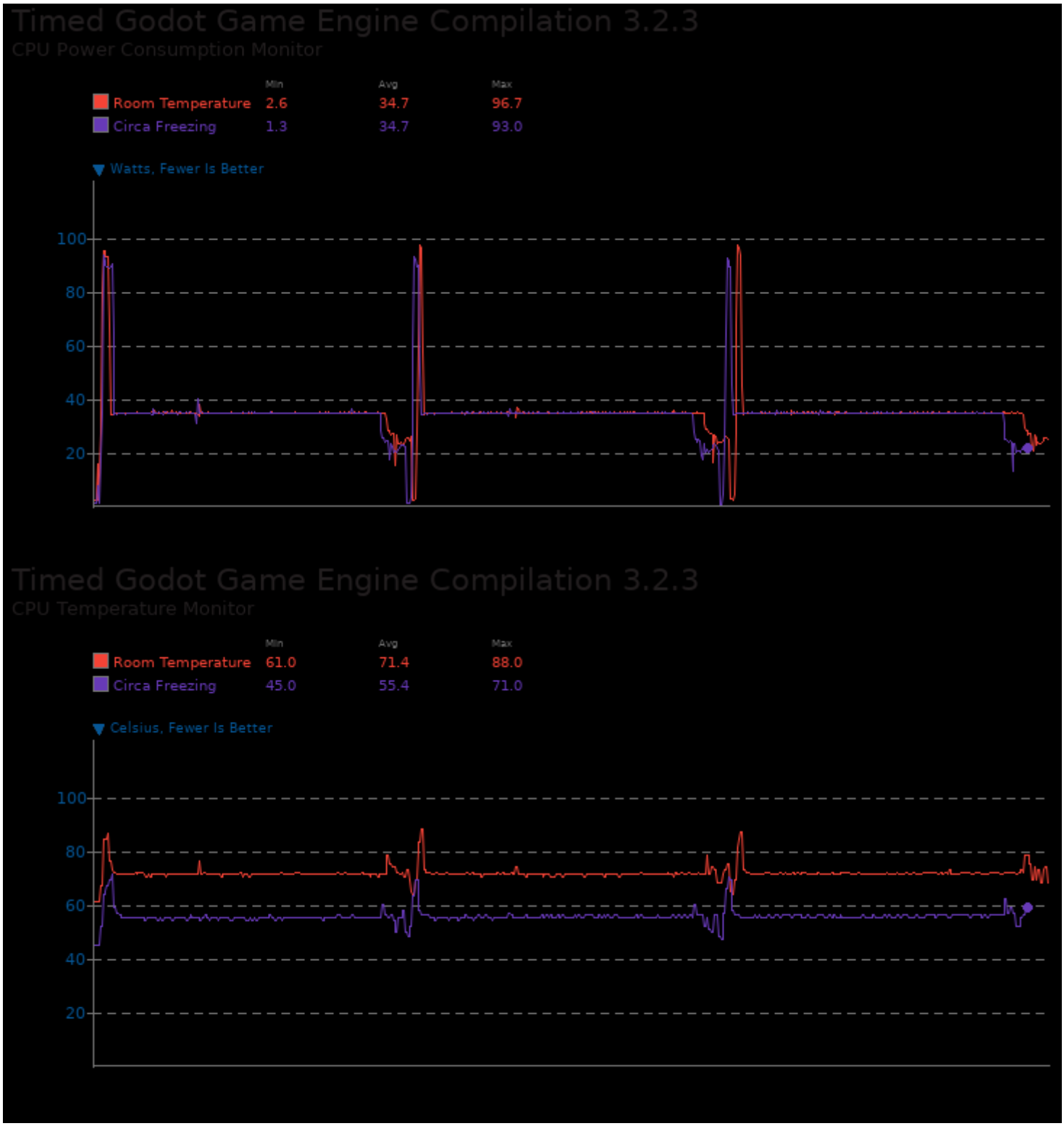

TensorFlow Lite 2020-08-23
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.3 35.3 73.7
Circa Freezing 0.9 35.0 70.1
Watts, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 61.0 71.3 84.0
Circa Freezing 43.0 54.1 66.0
Celsius, Fewer Is Better
100
80
60
40
20

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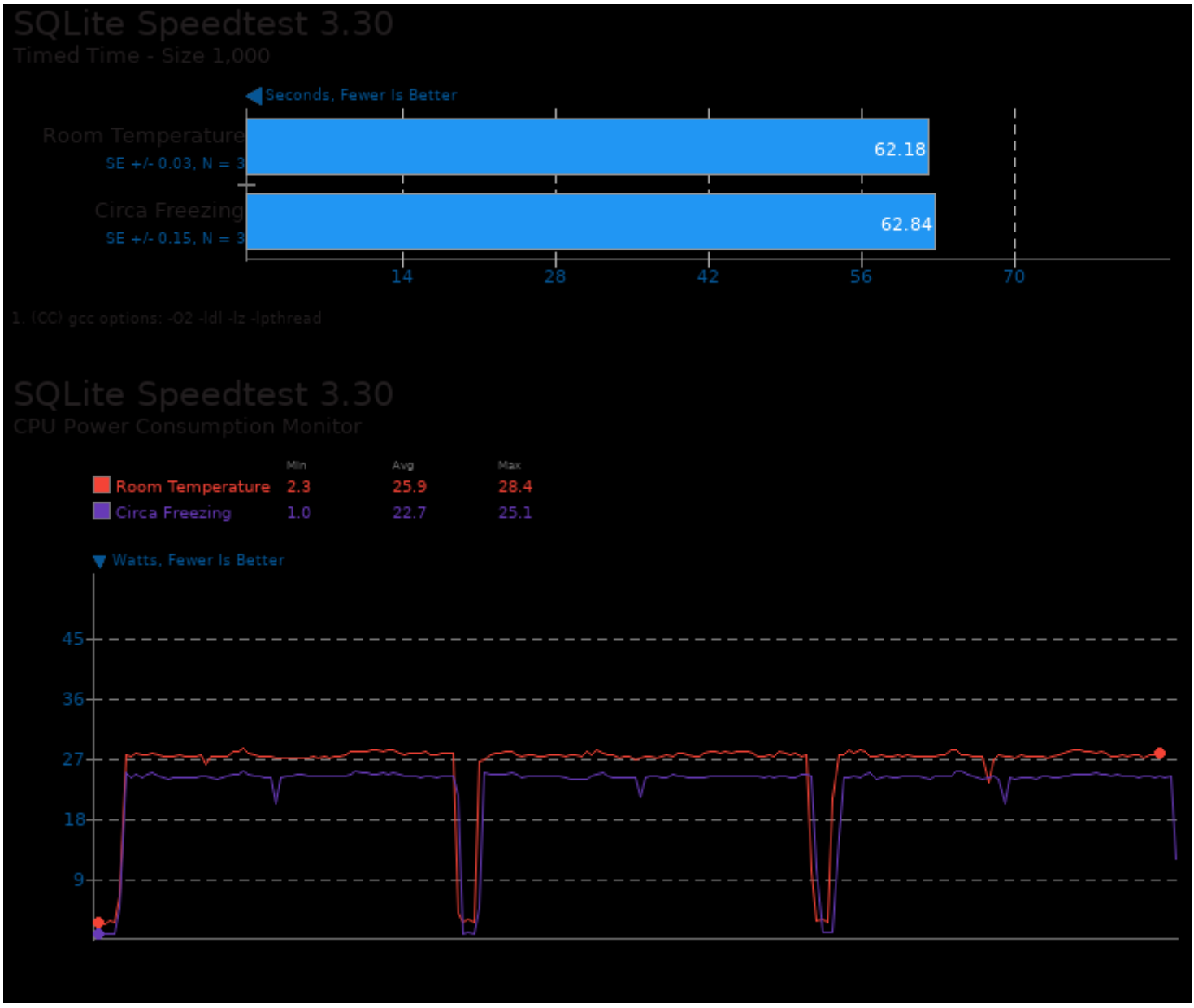


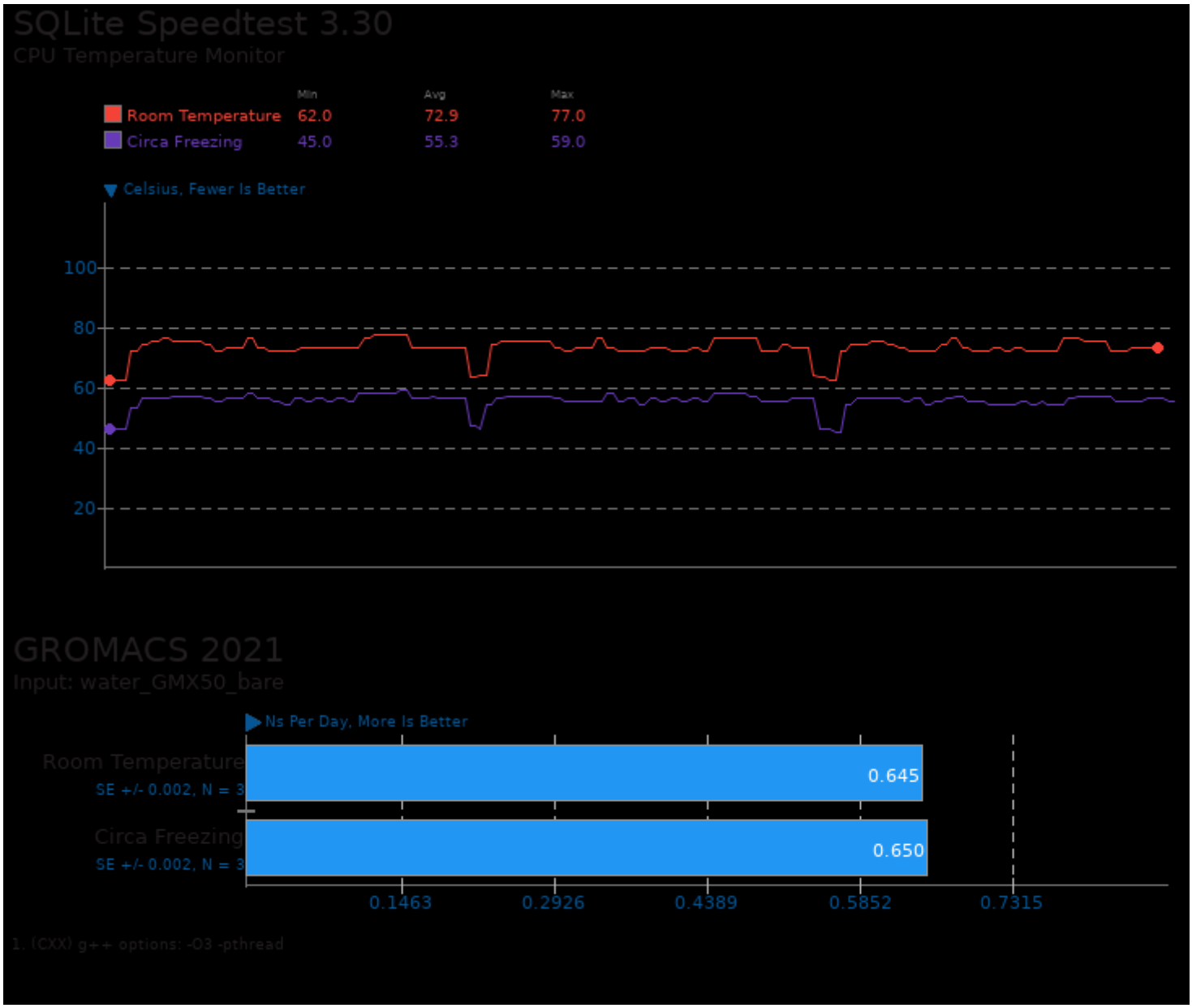

Build2 0.13
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 59.0 70.3 86.0
Circa Freezing 43.0 54.2 69.0
Celsius, Fewer Is Better
100
80
60
40
20

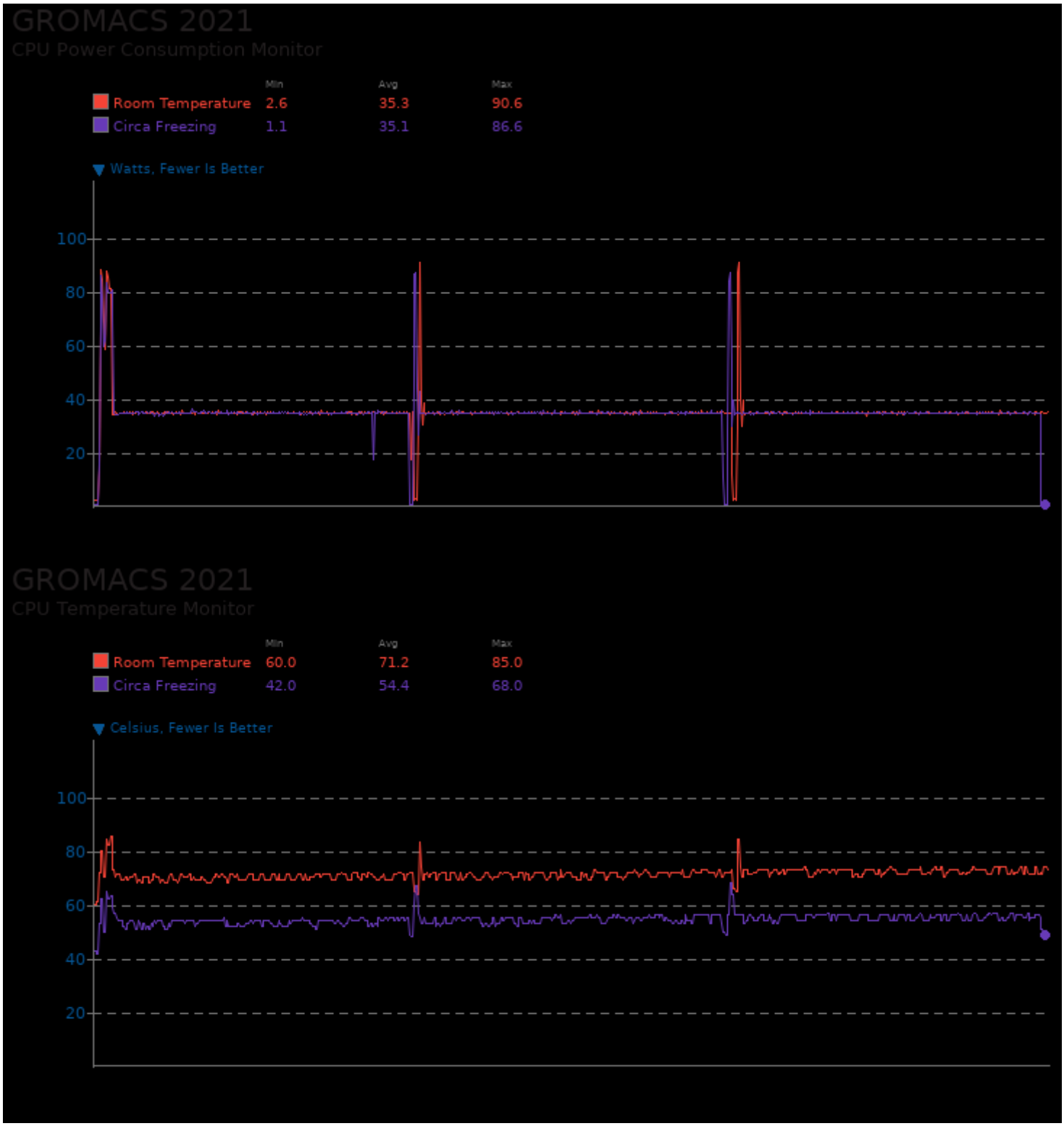
Timed Godot Game Engine Compilation 3.2.3
Time To Compile
Seconds, Fewer Is Better
Room Temperature
SE +/- 0.88, N = 3
255.45
Circa Freezing
SE +/- 0.37, N = 3
249.53
60
120
180
240
300

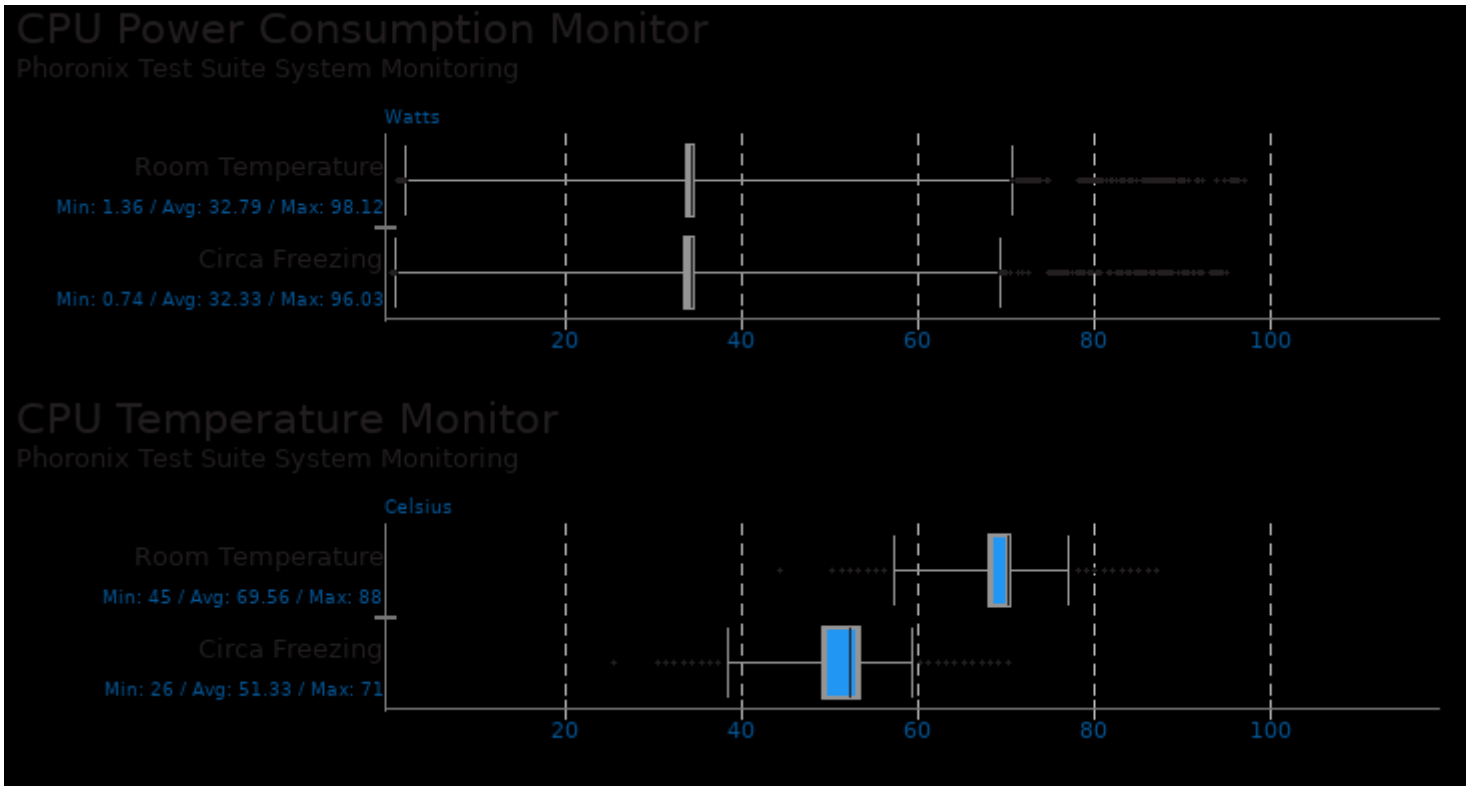

Timed Godot Game Engine Compilation 3.2.3
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.6 34.7 96.7
Circa Freezing 1.3 34.7 93.0
Watts, Fewer Is Better
100
80
60
40
20
Timed Godot Game Engine Compilation 3.2.3
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 61.0 71.4 88.0
Circa Freezing 45.0 55.4 71.0
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Helix 500 Core i7 10700T

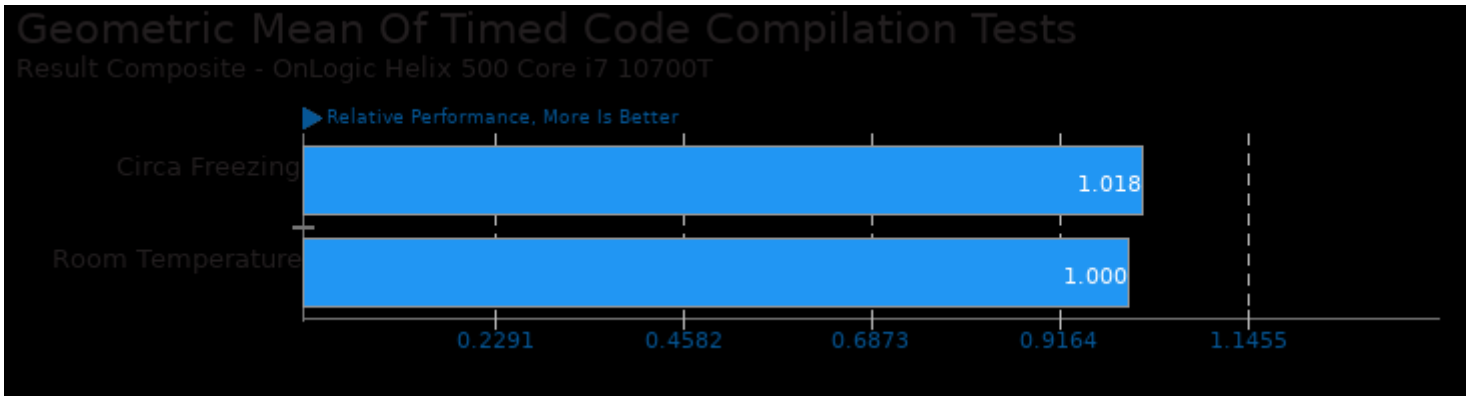



SQLite Speedtest 3.30
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 62.0 72.9 77.0
Circa Freezing 45.0 55.3 59.0
Celsius, Fewer Is Better
100
80
60
40
20
GROMACS 2021
Input: water_GMX50_bare
Ns Per Day, More Is Better
Room Temperature
SE +/- 0.002, N = 3
0.645
Circa Freezing
SE +/- 0.002, N = 3
0.650
0.1463
0.2926
0.4389
0.5852
0.7315
1. (CXX) g++ options: -O3 -pthread

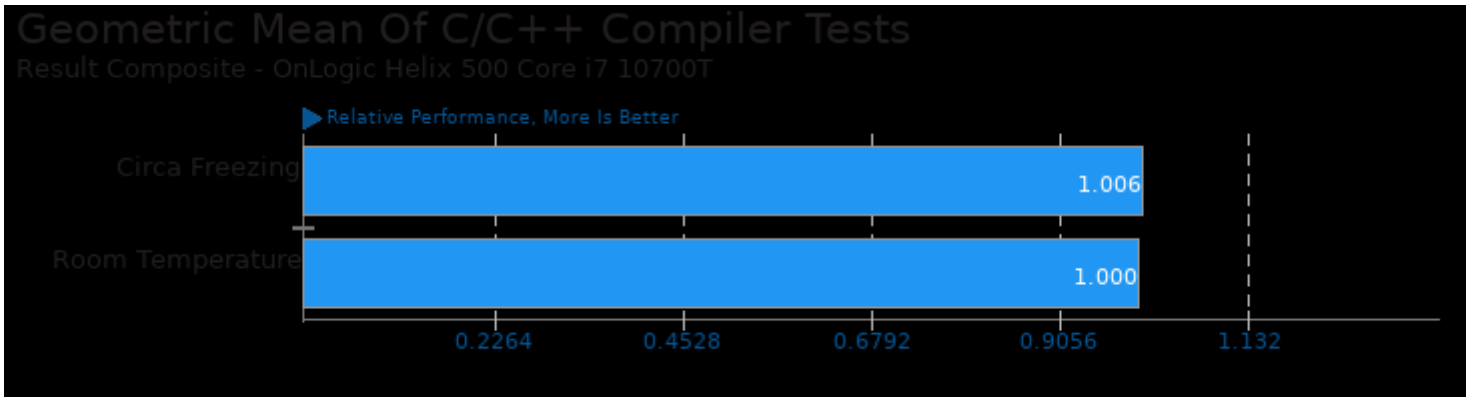

GROMACS 2021
CPU Power Consumption Monitor
Min
Avg
Max
Room Temperature 2.6 35.3 90.6
Circa Freezing 1.1 35.1 86.6
Watts, Fewer Is Better
100
80
60
40
20
GROMACS 2021
CPU Temperature Monitor
Min
Avg
Max
Room Temperature 60.0 71.2 85.0
Circa Freezing 42.0 54.4 68.0
Celsius, Fewer Is Better
100
80
60
40
20


CPU Power Consumption Monitor
Phoronix Test Suite System Monitoring
Watts
Room Temperature
Min: 1.36 / Avg: 32.79 / Max: 98.12
Circa Freezing
Min: 0.74 / Avg: 32.33 / Max: 96.03
20
40
60
80
100
CPU Temperature Monitor
Phoronix Test Suite System Monitoring
Celsius
Room Temperature
Min: 45 / Avg: 69.56 / Max: 88
Circa Freezing
Min: 26 / Avg: 51.33 / Max: 71
20
40
60
80
100

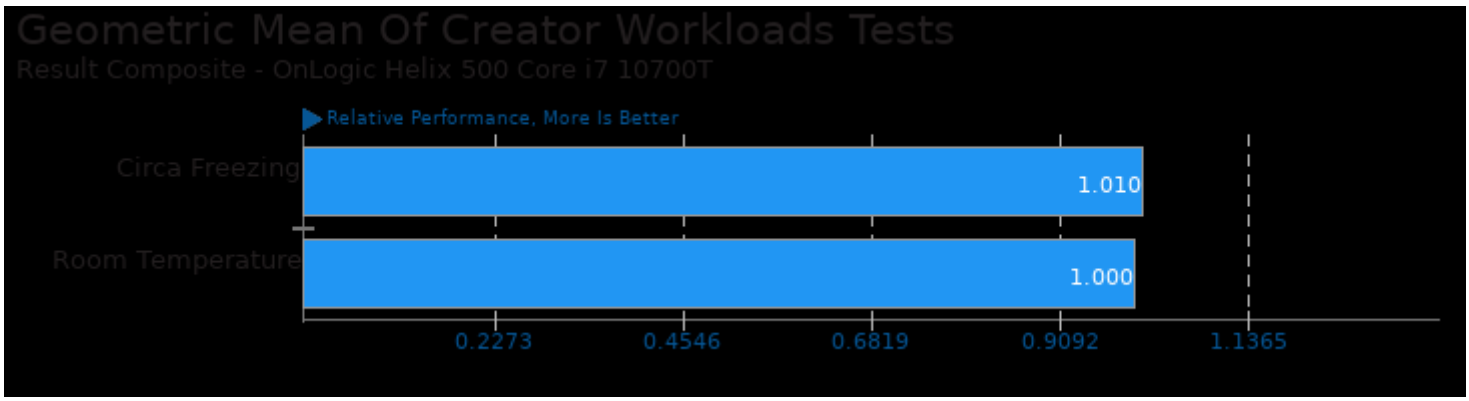
These geometric means are based upon test groupings / test suites for this result file.



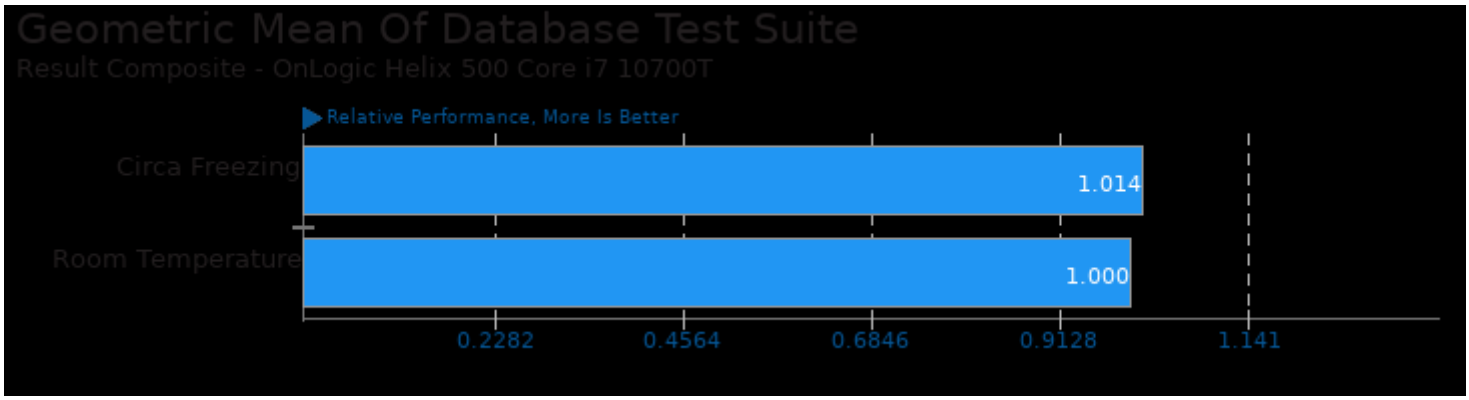
Geometric mean based upon tests: pts/build2 and pts/build-godot



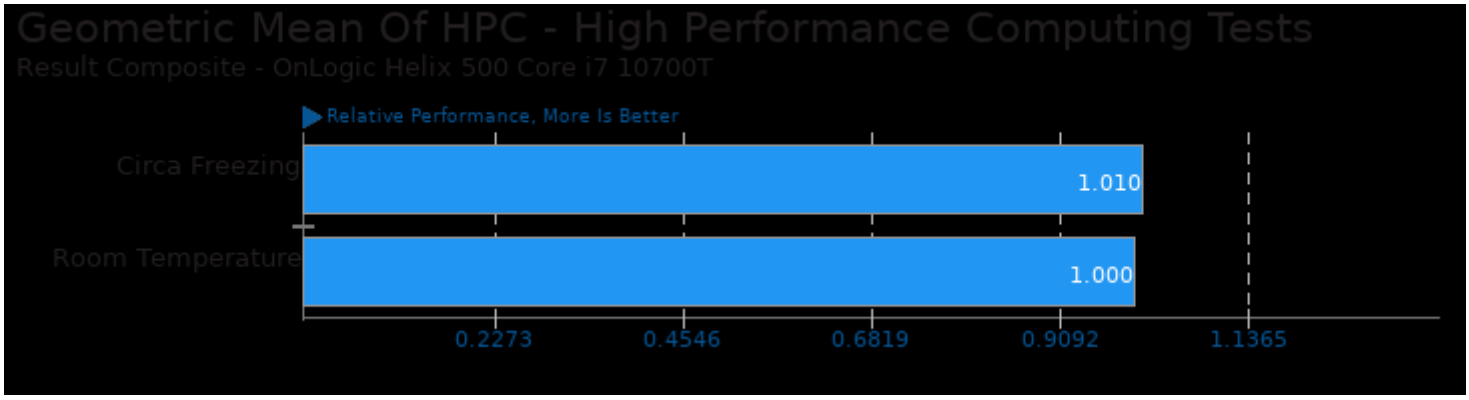
Geometric mean based upon tests: pts/sqlite-speedtest, pts/gromacs and pts/keydb



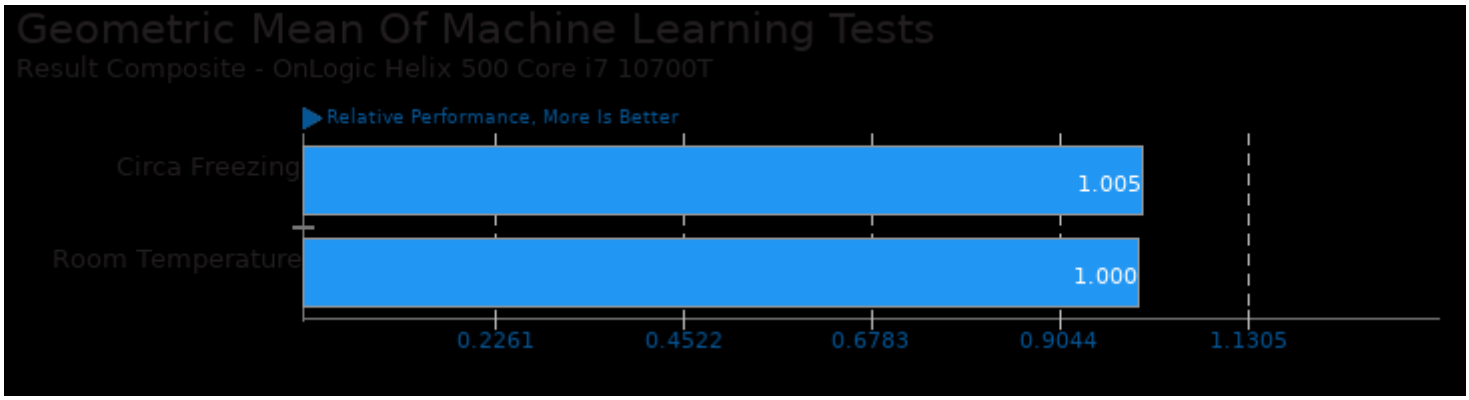
Geometric mean based upon tests: pts/v-ray, pts/jpegxl, pts/build-godot, pts/deepspeech and pts/synthmark



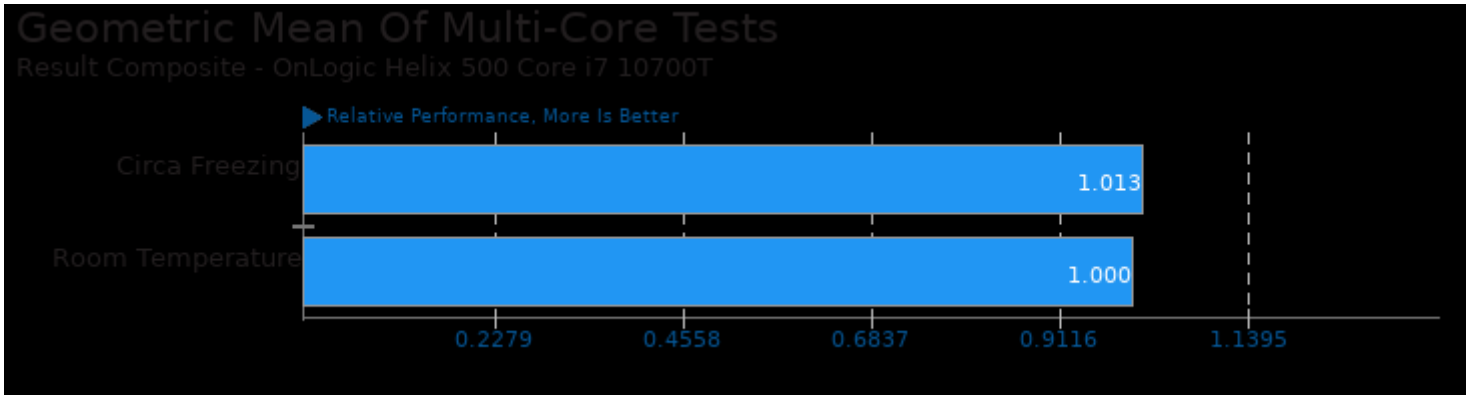
Geometric mean based upon tests: pts/sqlite-speedtest, pts/keydb and pts/influxdb



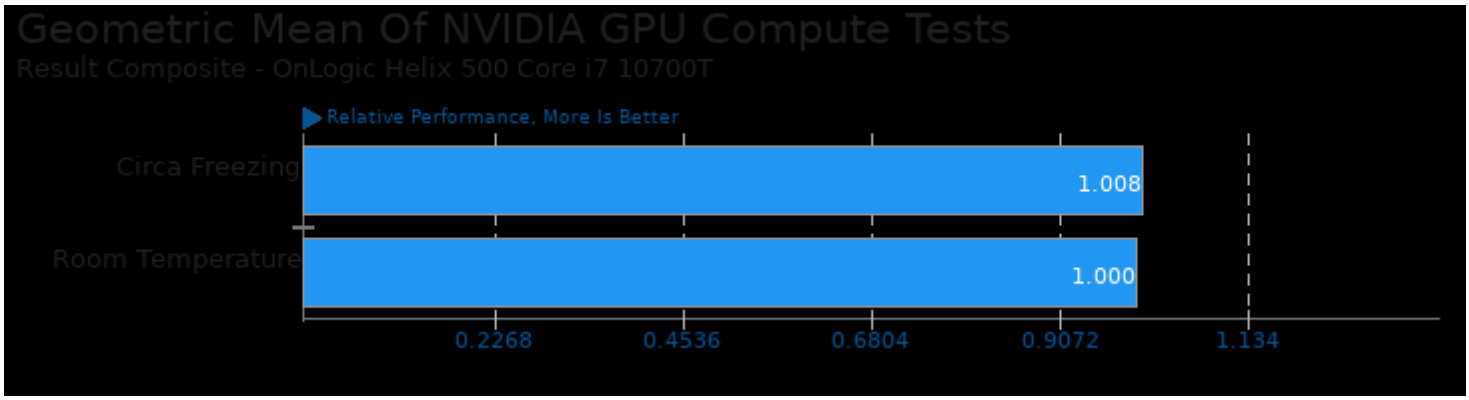
Geometric mean based upon tests: pts/gromacs, pts/tnn, pts/deepspeech, pts/tensorflow-lite and pts/onnx



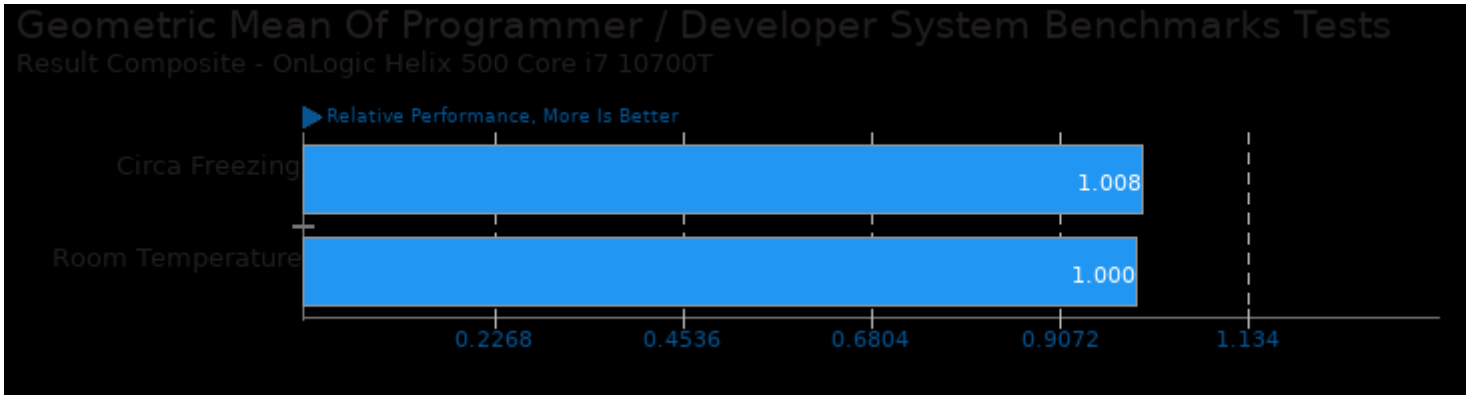
Geometric mean based upon tests: pts/tnn, pts/deepspeech, pts/tensorflow-lite and pts/onnx



Geometric mean based upon tests: pts/gromacs, pts/build2, pts/build-godot and pts/v-ray



Geometric mean based upon tests: pts/gromacs and pts/v-ray



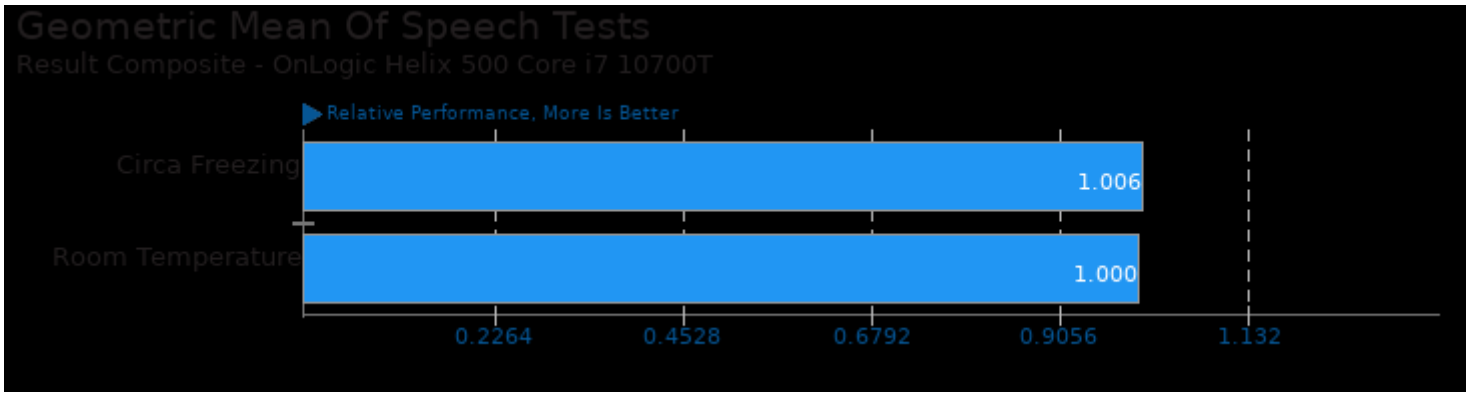
Geometric mean based upon tests: pts/sqlite-speedtest, pts/build2 and pts/build-godot



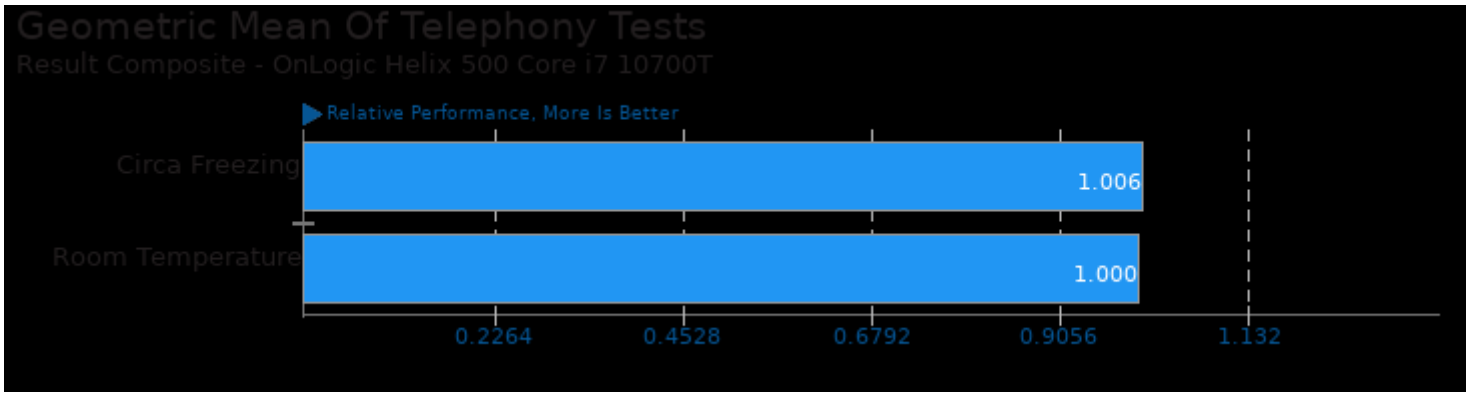
Geometric mean based upon tests: pts/onnx and pts/build-godot



Geometric mean based upon tests: pts/keydb, pts/sqlite-speedtest and pts/influxdb



Geometric mean based upon tests: pts/deepspeech and pts/synthmark



Geometric mean based upon tests: pts/deepspeech and pts/synthmark

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:50.