

www.phoronix-test-suite.com

Compare Ubuntu i7-1165G7

Intel Core i7-1165G7 testing with a Dell 0GG9PT (1.0.1 BIOS) and Intel Xe 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Bad

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0GG9PT (1.0.1 BIOS), Chipset: Intel Device a0ef, Memory: 16GB, Disk: KIOXIA KBG40ZNS256G NVMe 256GB, Graphics: Intel Xe 3GB (1300MHz), Audio: Realtek ALC289, Network: Intel Device a0f0

OS: Ubuntu 20.04, Kernel: 5.9.0-050900-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.3.0-devel (git-57d3178 2020-10-17 focal-oibaf-ppa), Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1200

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin

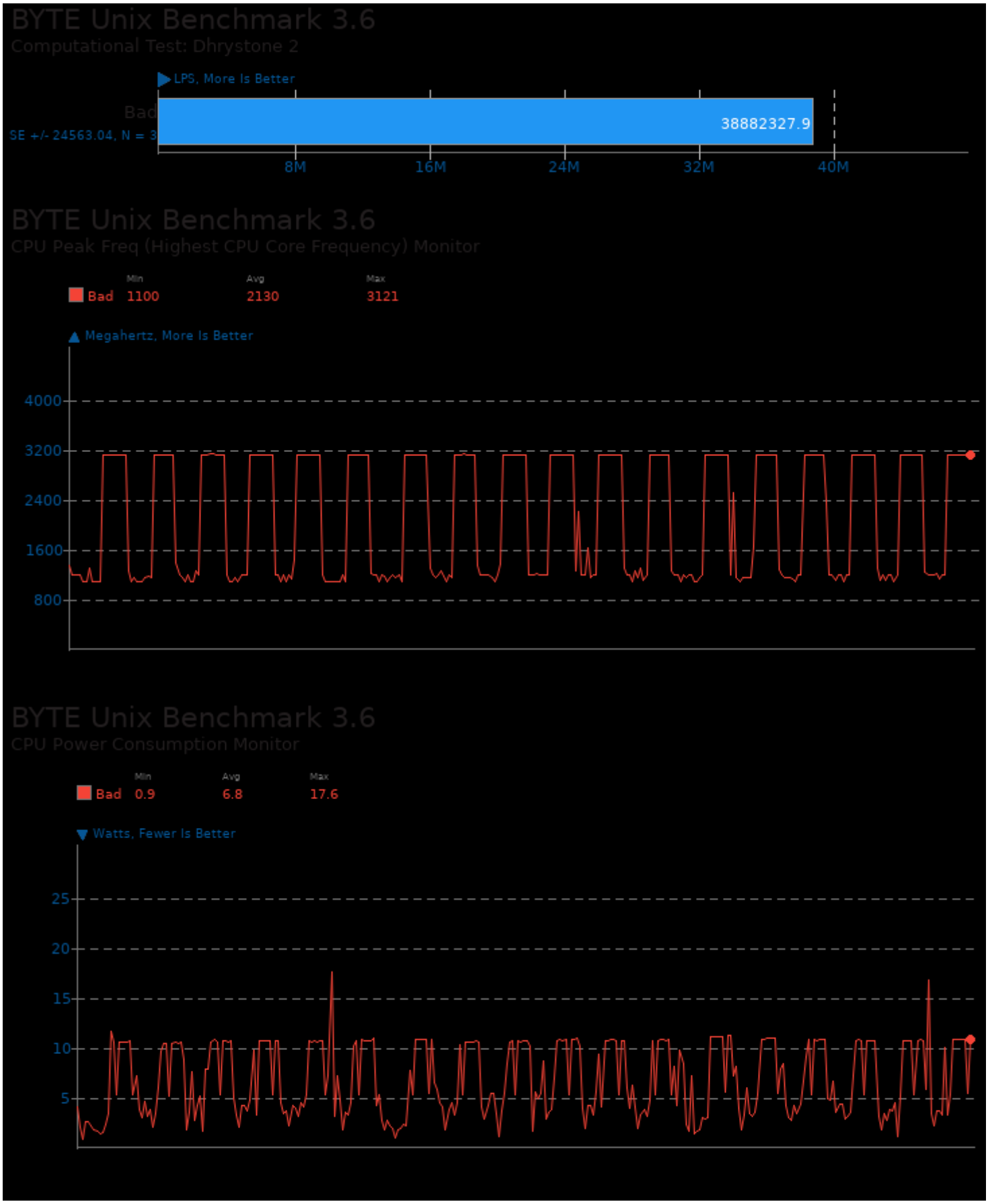
Compare Ubuntu i7-1165G7

--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: 0x52 - Thermald 2.3
Python Notes: Python 3.8.5
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

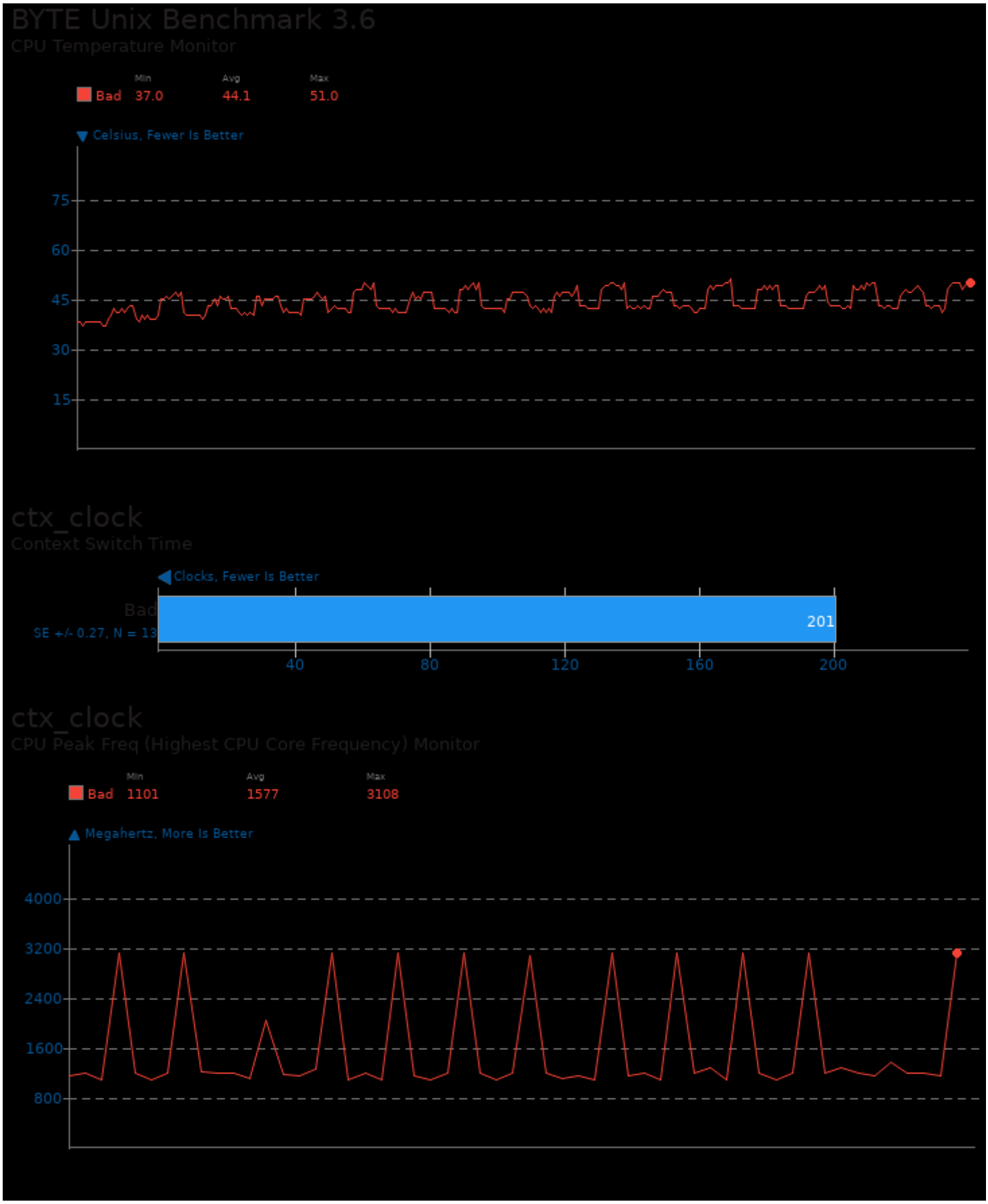
	Bad
BYTE Unix Benchmark - Dhrystone 2 (LPS)	38882328
Standard Deviation	0.1%
ctx_clock - C.S.T (Clocks)	201
Standard Deviation	0.5%
DeepSpeech - CPU (sec)	80.78340
Standard Deviation	0.5%
eSpeak-NG Speech Engine - T.T.S.S (sec)	39.529
Standard Deviation	0.2%
GEGL - Rotate 90 Degrees (sec)	53.440
Standard Deviation	0.1%
GEGL - Color Enhance (sec)	75.893
Standard Deviation	0.1%
GEGL - Crop (sec)	10.231
Standard Deviation	0.8%
GIMP - unsharp-mask (sec)	18.371
Standard Deviation	0.1%
GIMP - resize (sec)	11.640
Standard Deviation	0.6%
GIMP - rotate (sec)	15.661
Standard Deviation	0.7%
GIMP - auto-levels (sec)	16.475
Standard Deviation	0.8%
Tesseract - 1920 x 1200 (FPS)	96.79248
Standard Deviation	0.8%
ET: Legacy - Renderer2 - 1920 x 1200 (FPS)	112.7
Standard Deviation	1.4%
LibreOffice - 2.D.T.P (sec)	8.139
Standard Deviation	0.4%
PyBench - T.F.A.T.T (Milliseconds)	1087
Standard Deviation	0.3%
RNNoise (sec)	31.960
Standard Deviation	0%
Selenium - ARES-6 - Firefox (ms)	54.08
Standard Deviation	1.8%
Selenium - StyleBench - Firefox (Runs / Minute)	68.3
Standard Deviation	0.5%
Selenium - PSPDFKit WASM - Firefox (Score)	1851
Standard Deviation	0.7%
Selenium - Kraken - Firefox (ms)	1020
Standard Deviation	0.3%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	76.126
Standard Deviation	0.3%

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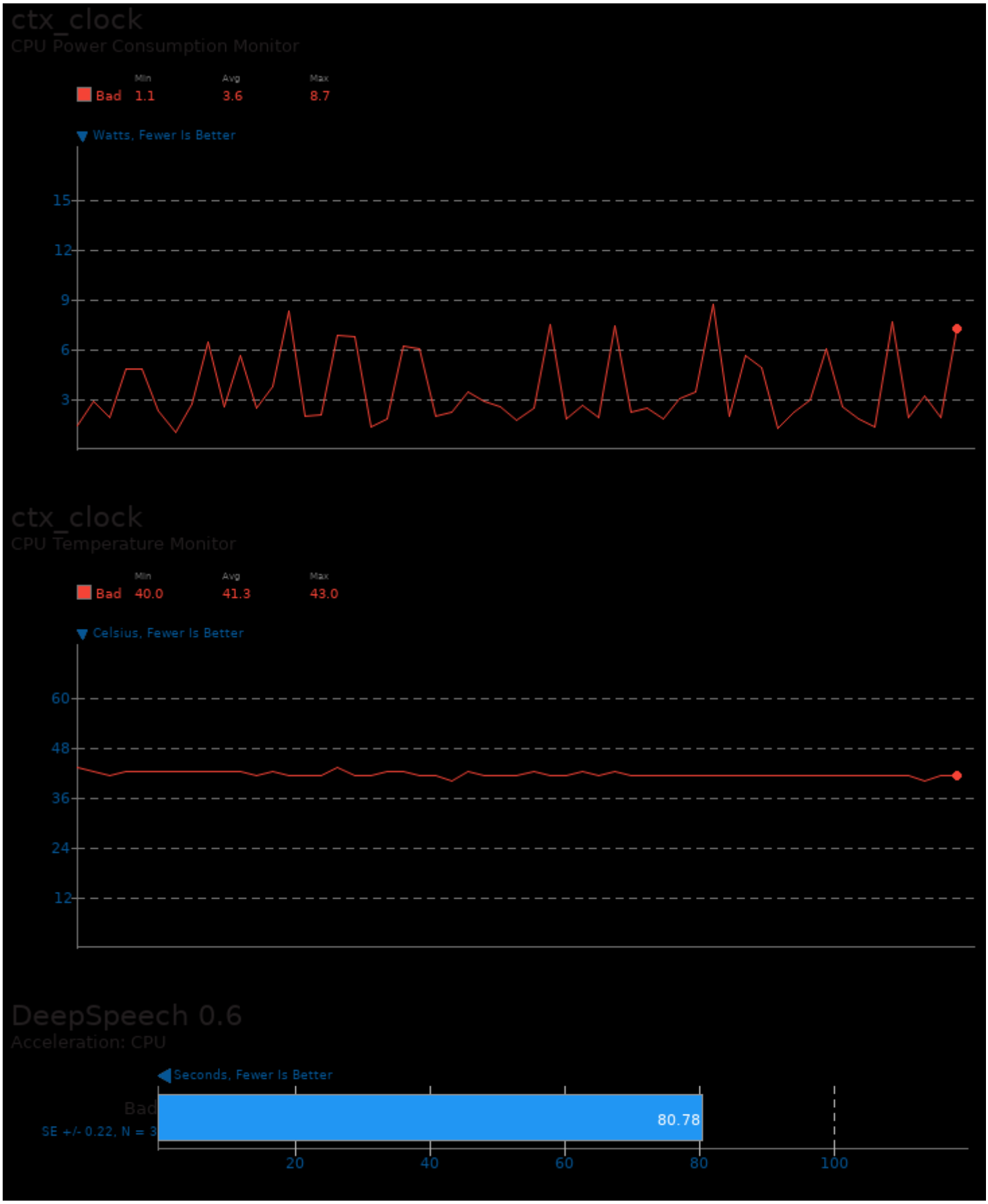
Timed Linux Kernel Compilation - Time To Compile (sec)	237.645
Standard Deviation	0.3%
GROMACS - Water Benchmark (Ns/Day)	0.439
Standard Deviation	1.2%
WebP Image Encode - Q.1.H.C (Encode Time - sec)	9.660
Standard Deviation	0.2%
WebP Image Encode - Q.1.L (Encode Time - sec)	23.596
Standard Deviation	0.1%
WebP Image Encode - Q.1.L.H.C (Encode Time - sec)	48.951
Standard Deviation	0.2%
Zstd Compression - 19 (MB/s)	21.2
Standard Deviation	0.3%

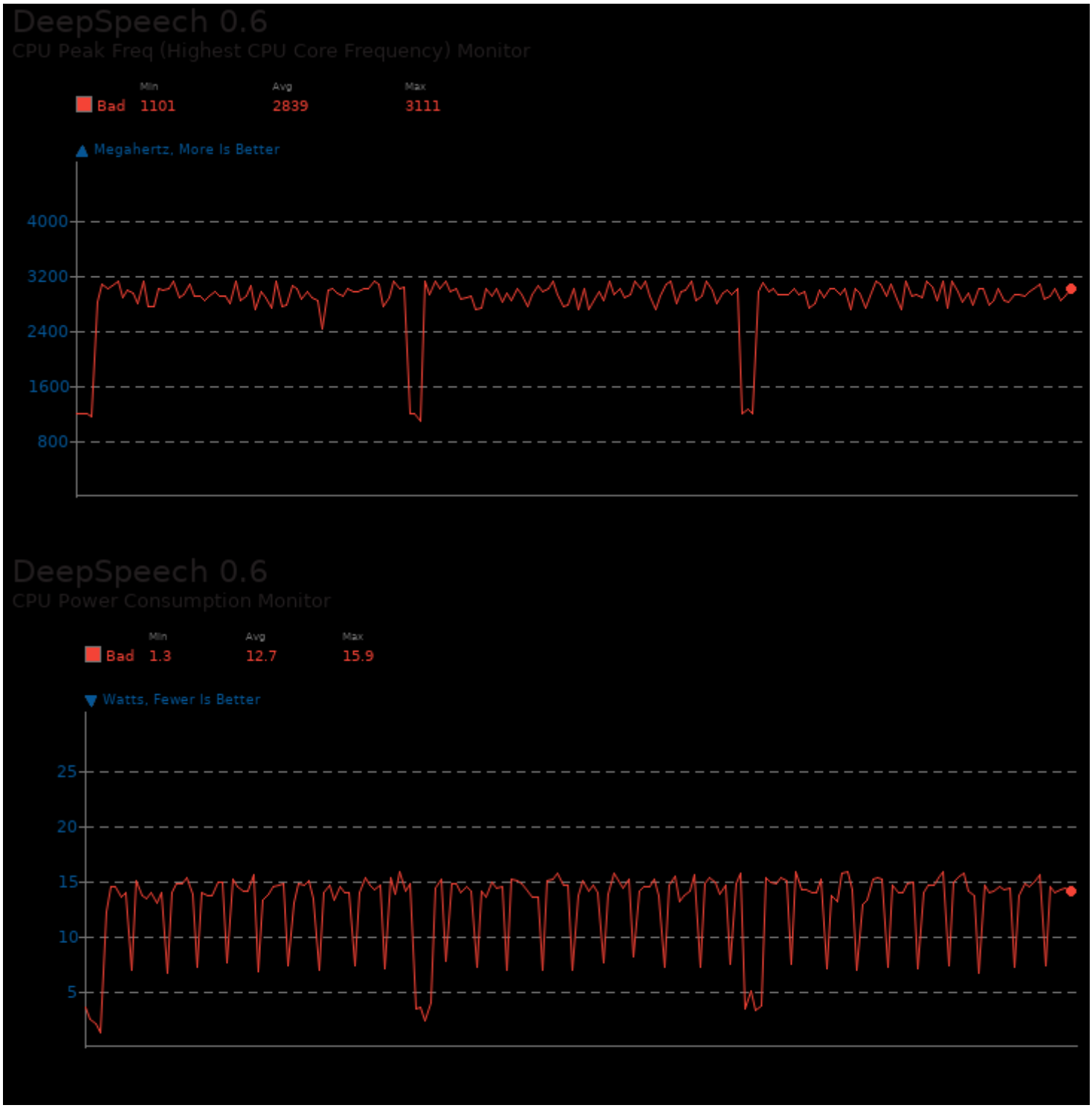

BYTE Unix Benchmark 3.6
Computational Test: Dhrystone 2
LPS, More Is Better
Bad
38882327.9
SE +/- 24563.04, N = 3
8M
16M
24M
32M
40M
BYTE Unix Benchmark 3.6
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Min
Avg
Max
Bad 1100 2130 3121
Megahertz, More Is Better
4000
3200
2400
1600
800
BYTE Unix Benchmark 3.6
CPU Power Consumption Monitor
Min
Avg
Max
Bad 0.9 6.8 17.6
Watts, Fewer Is Better
25
20
15
10
5

Compare Ubuntu i7-1165G7



Compare Ubuntu i7-1165G7

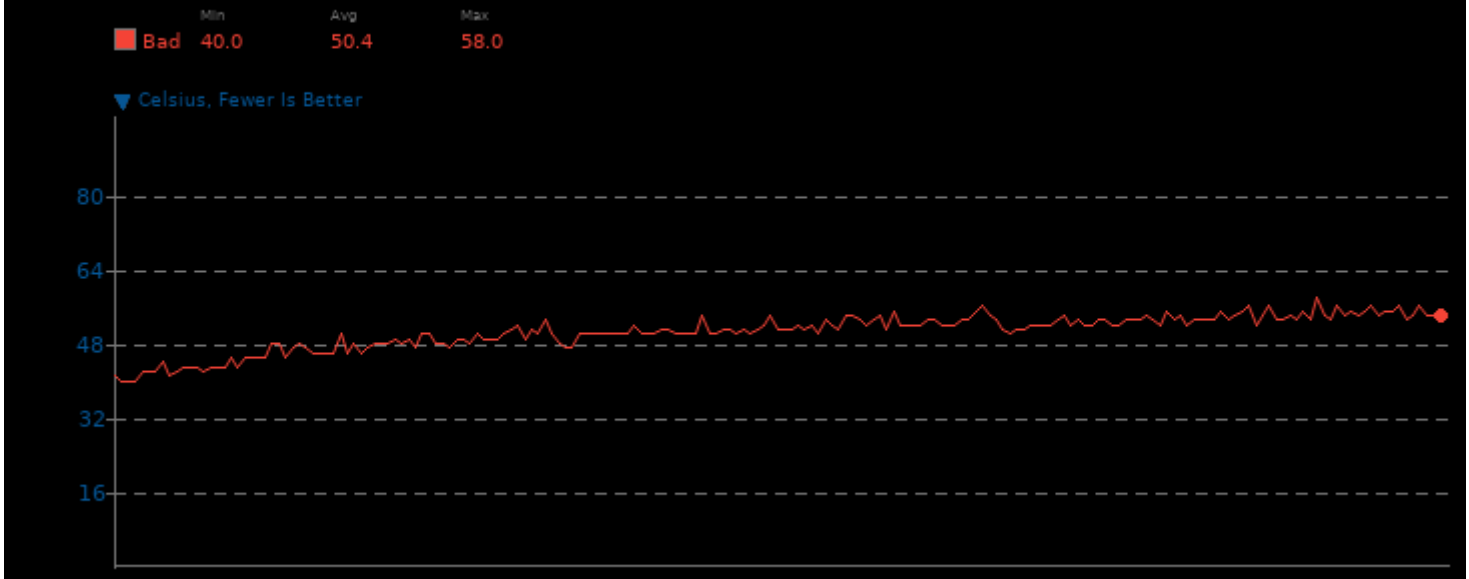



DeepSpeech 0.6
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Min
Avg
Max
Bad
1101
2839
3111
Megahertz, More Is Better
4000
3200
2400
1600
800
DeepSpeech 0.6
CPU Power Consumption Monitor
Min
Avg
Max
Bad
1.3
12.7
15.9
Watts, Fewer Is Better
25
20
15
10
5

Compare Ubuntu i7-1165G7

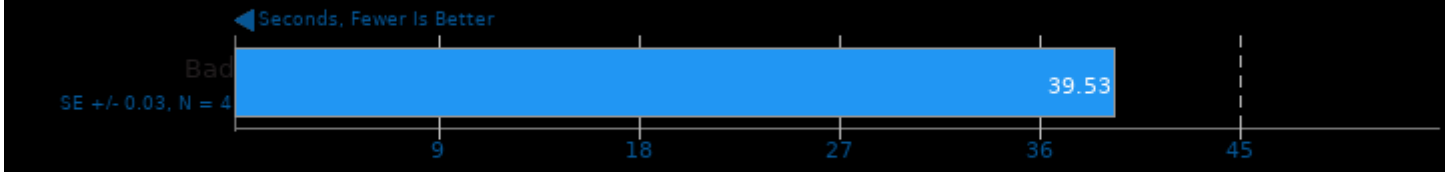
DeepSpeech 0.6

CPU Temperature Monitor



eSpeak-NG Speech Engine 20200907

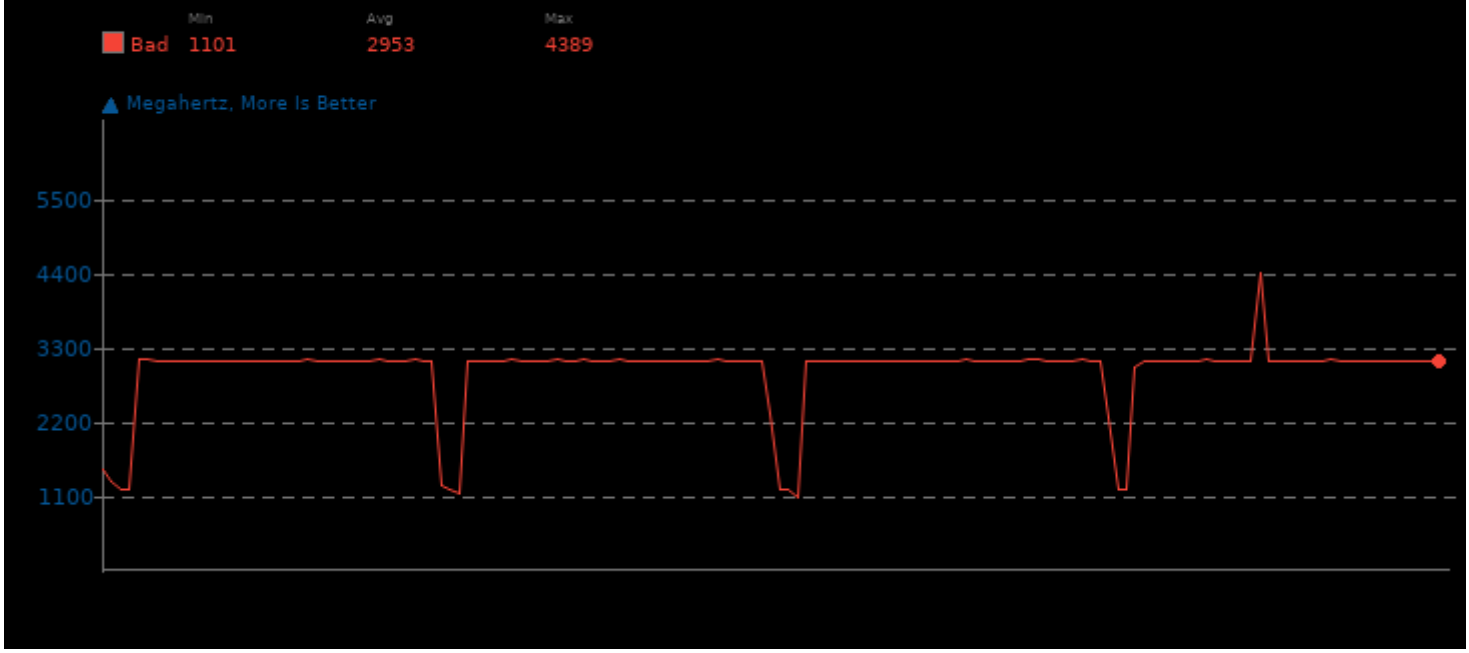
Text-To-Speech Synthesis



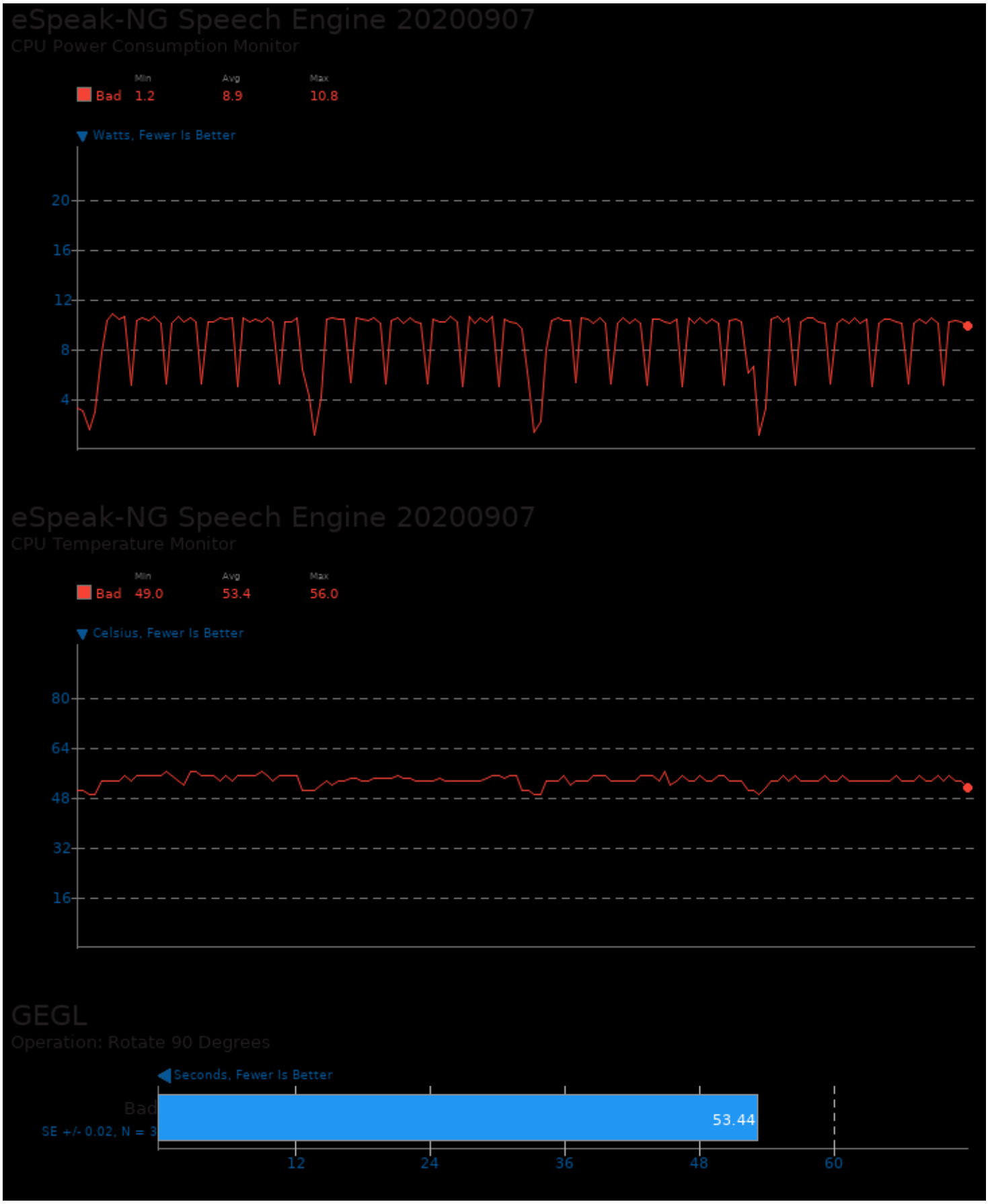
1. (CC) gcc options: -O2 -std=c99

eSpeak-NG Speech Engine 20200907

CPU Peak Freq (Highest CPU Core Frequency) Monitor



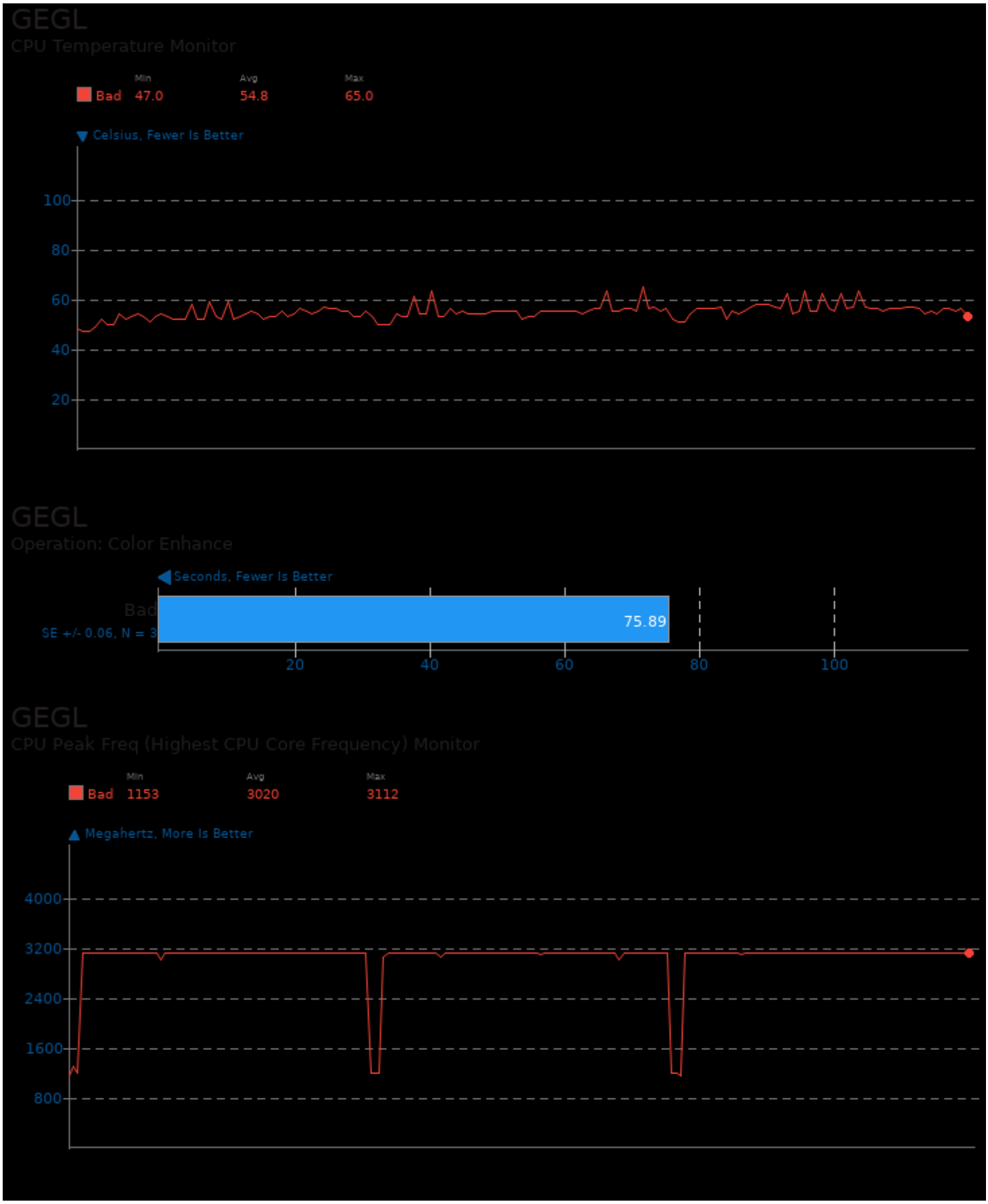
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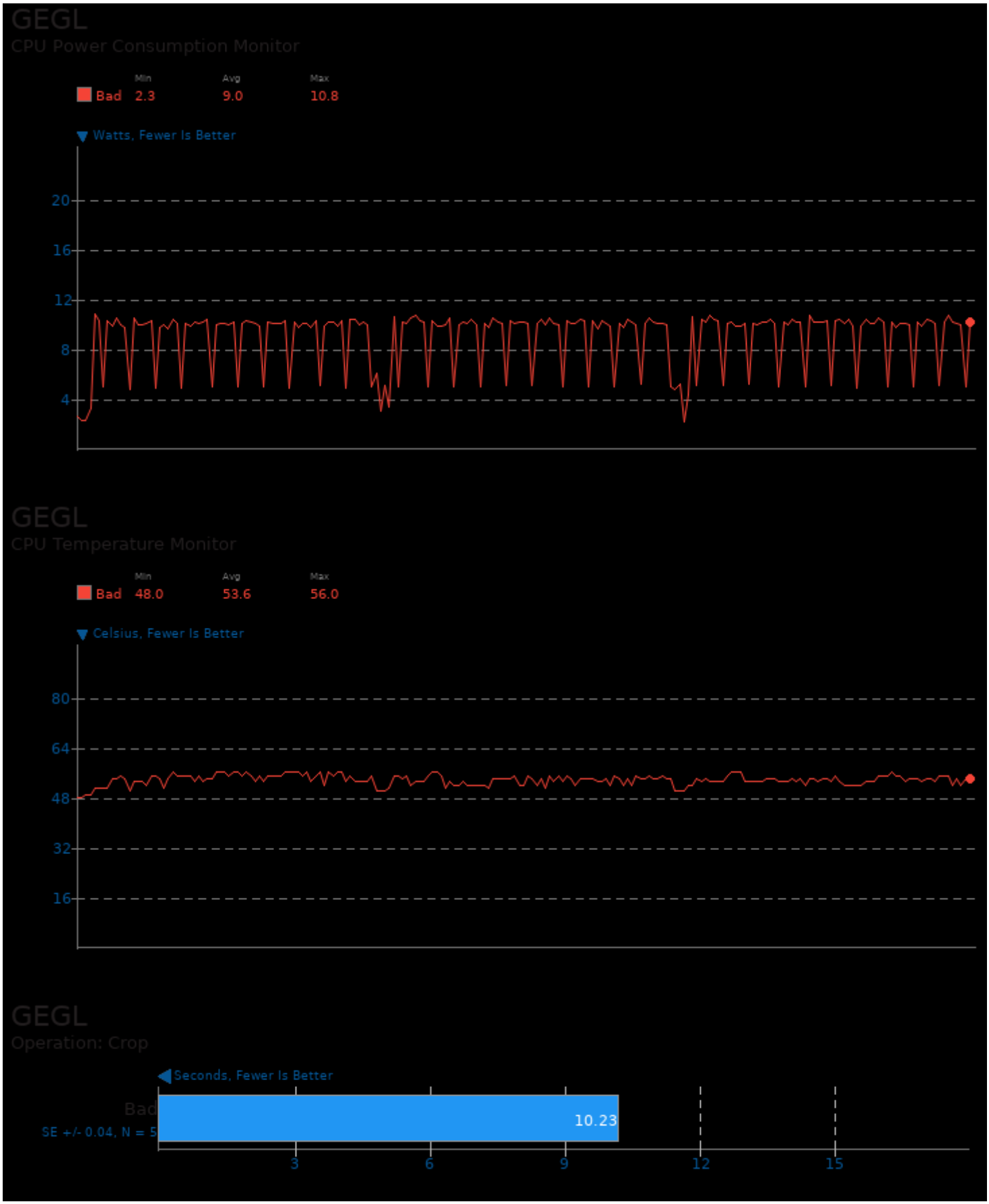
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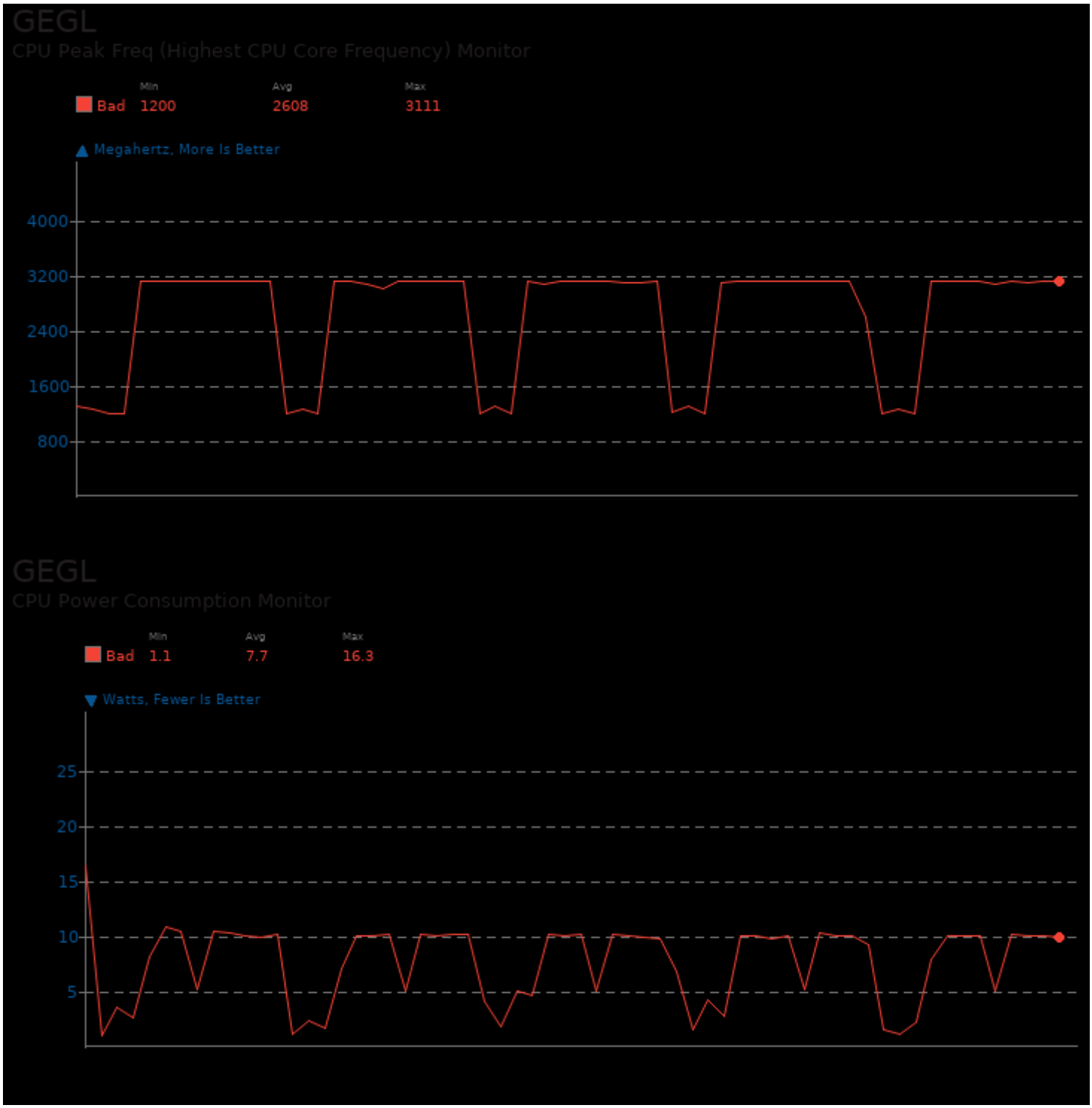
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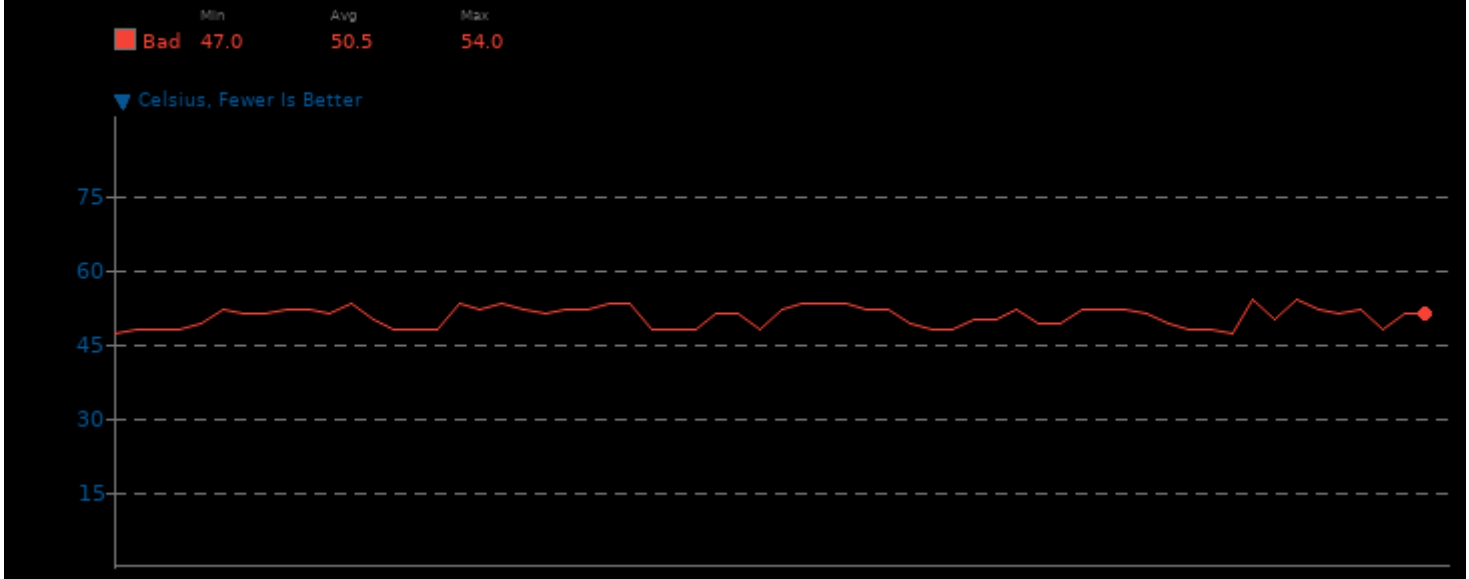
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Compare Ubuntu i7-1165G7

GEGL

CPU Temperature Monitor



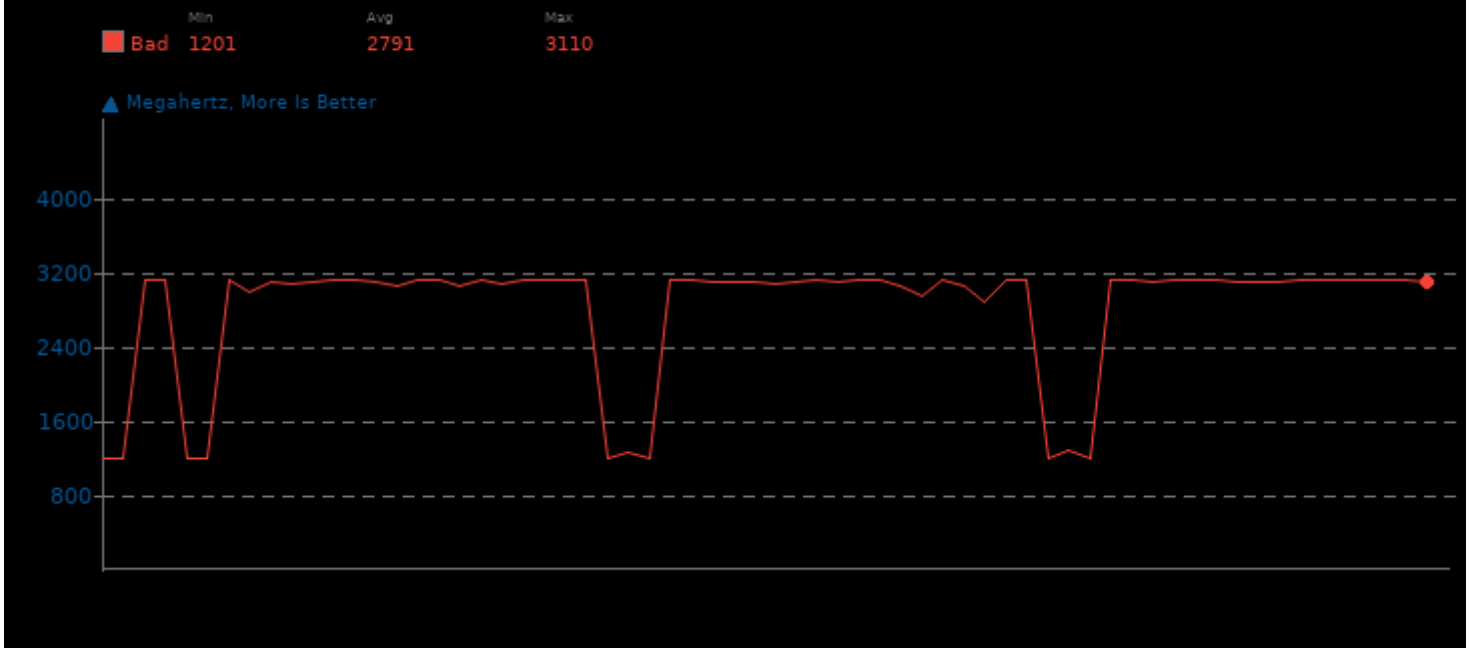
GIMP 2.10.18

Test: unsharp-mask

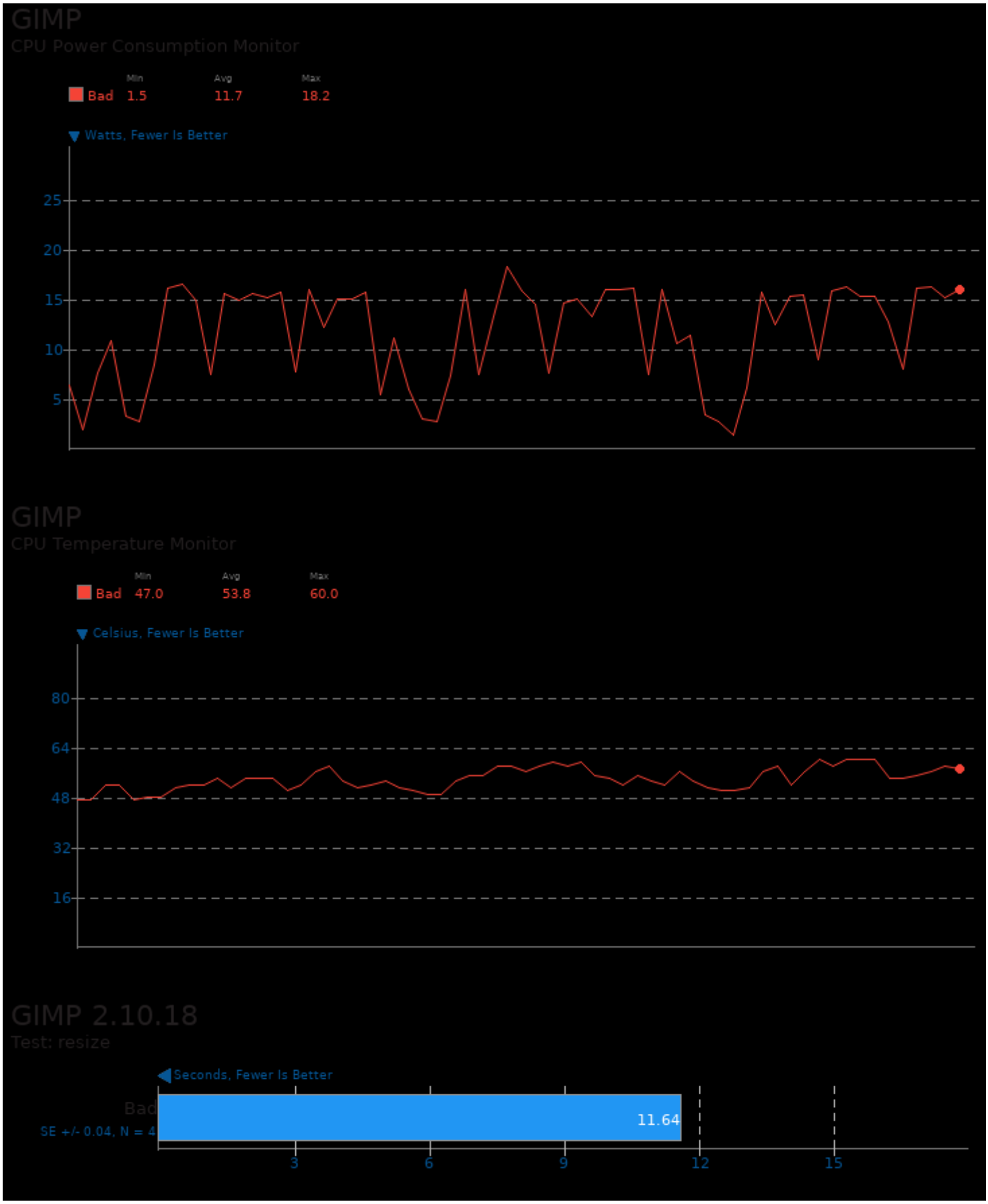


GIMP

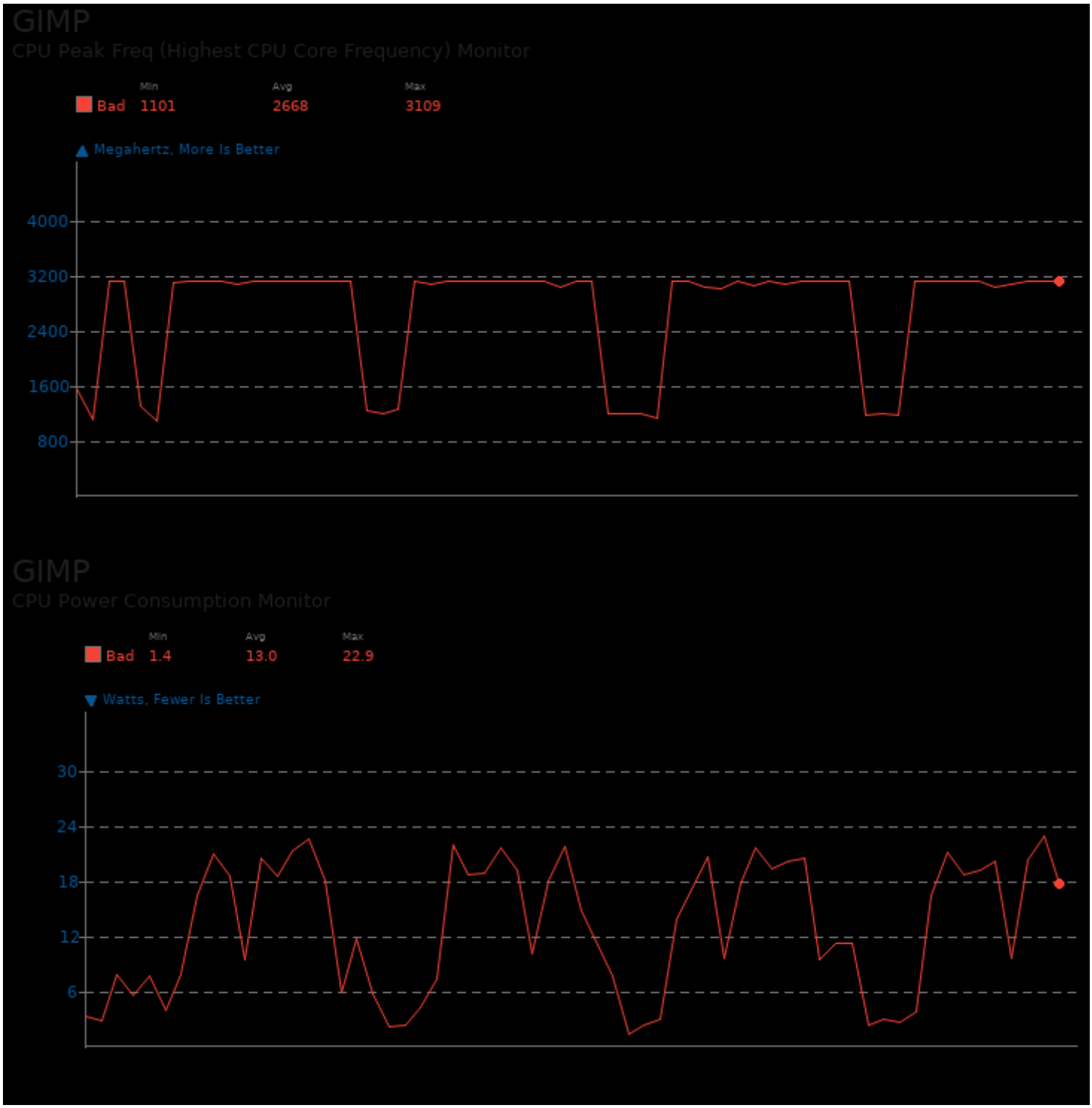
CPU Peak Freq (Highest CPU Core Frequency) Monitor



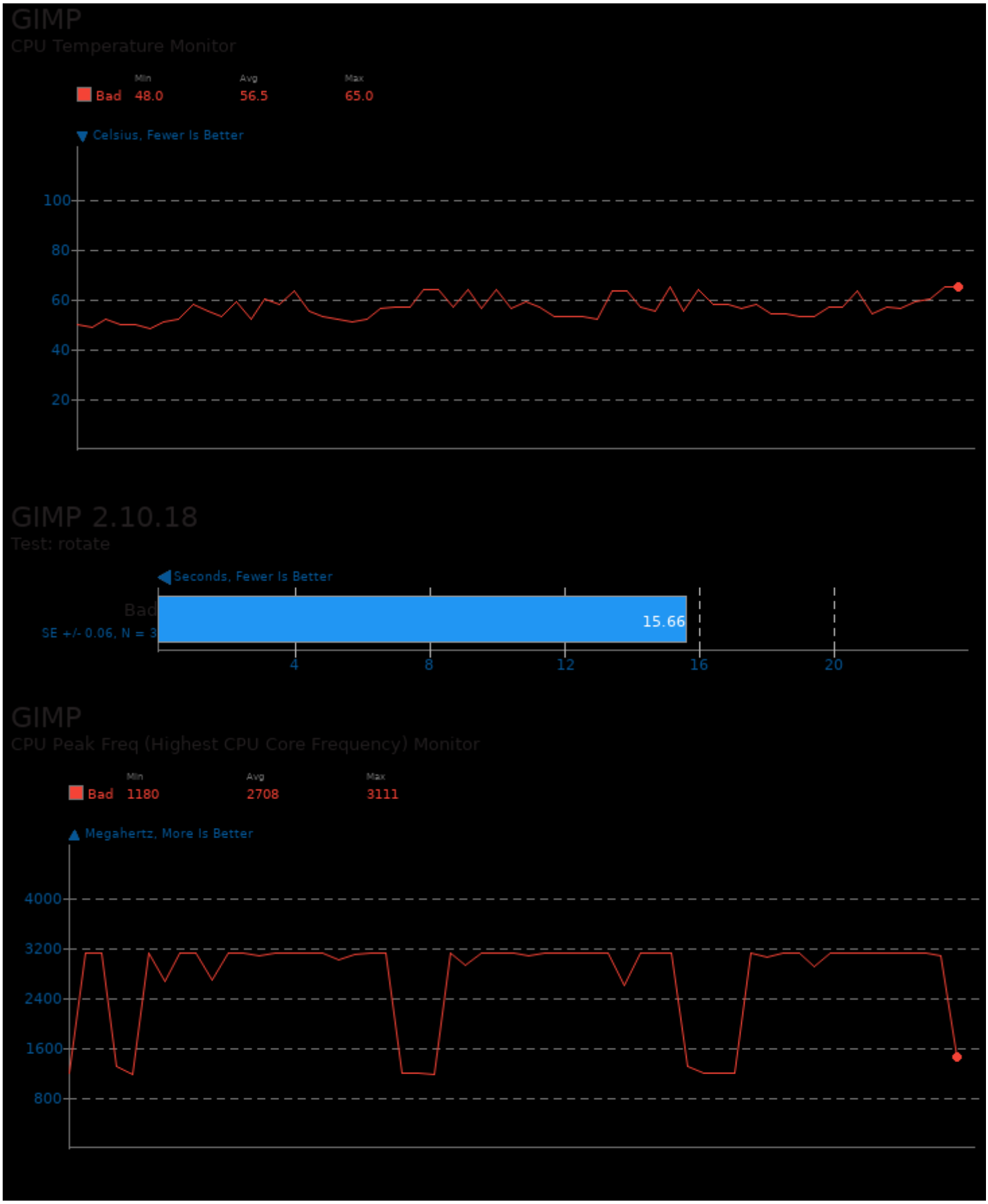
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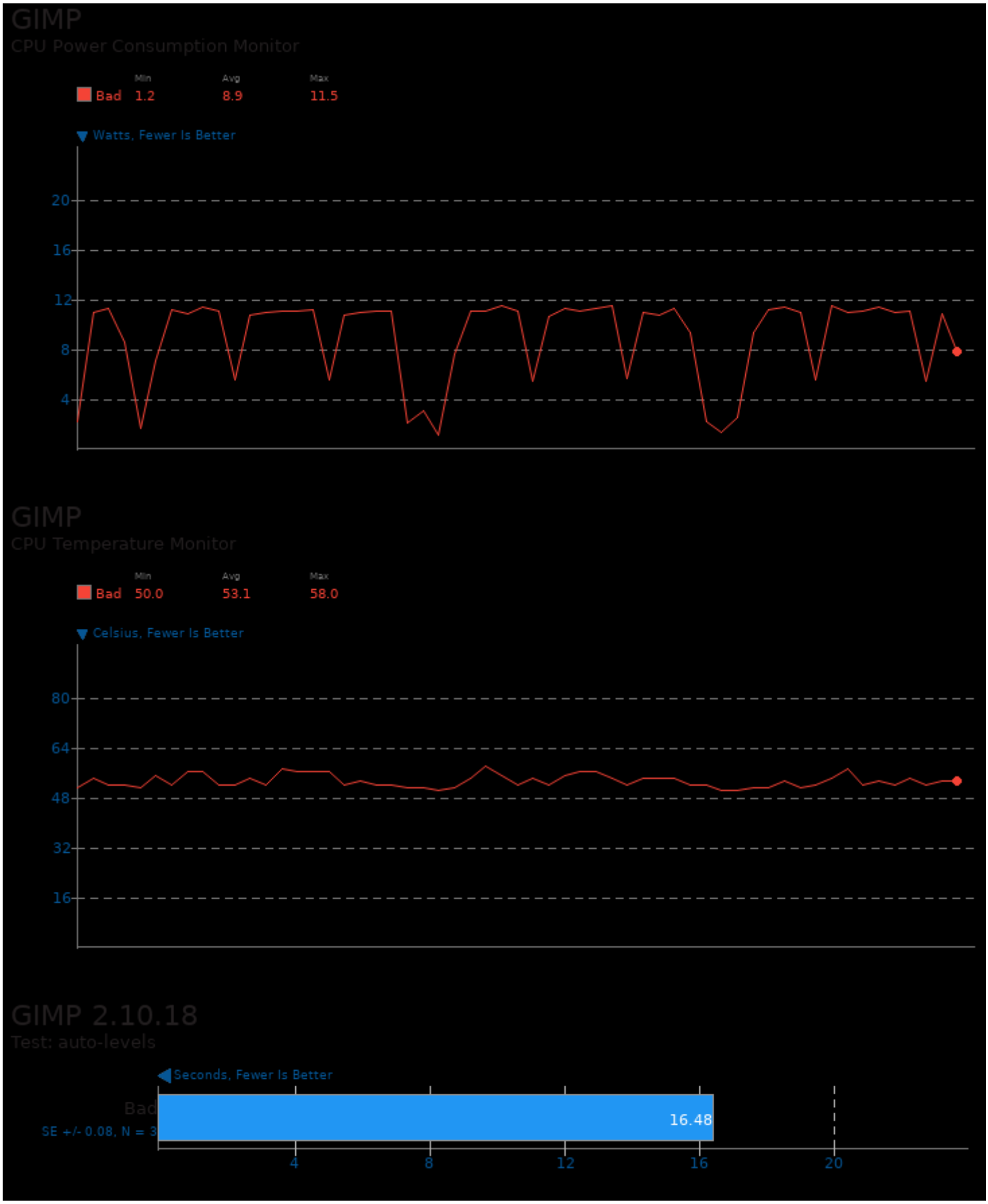
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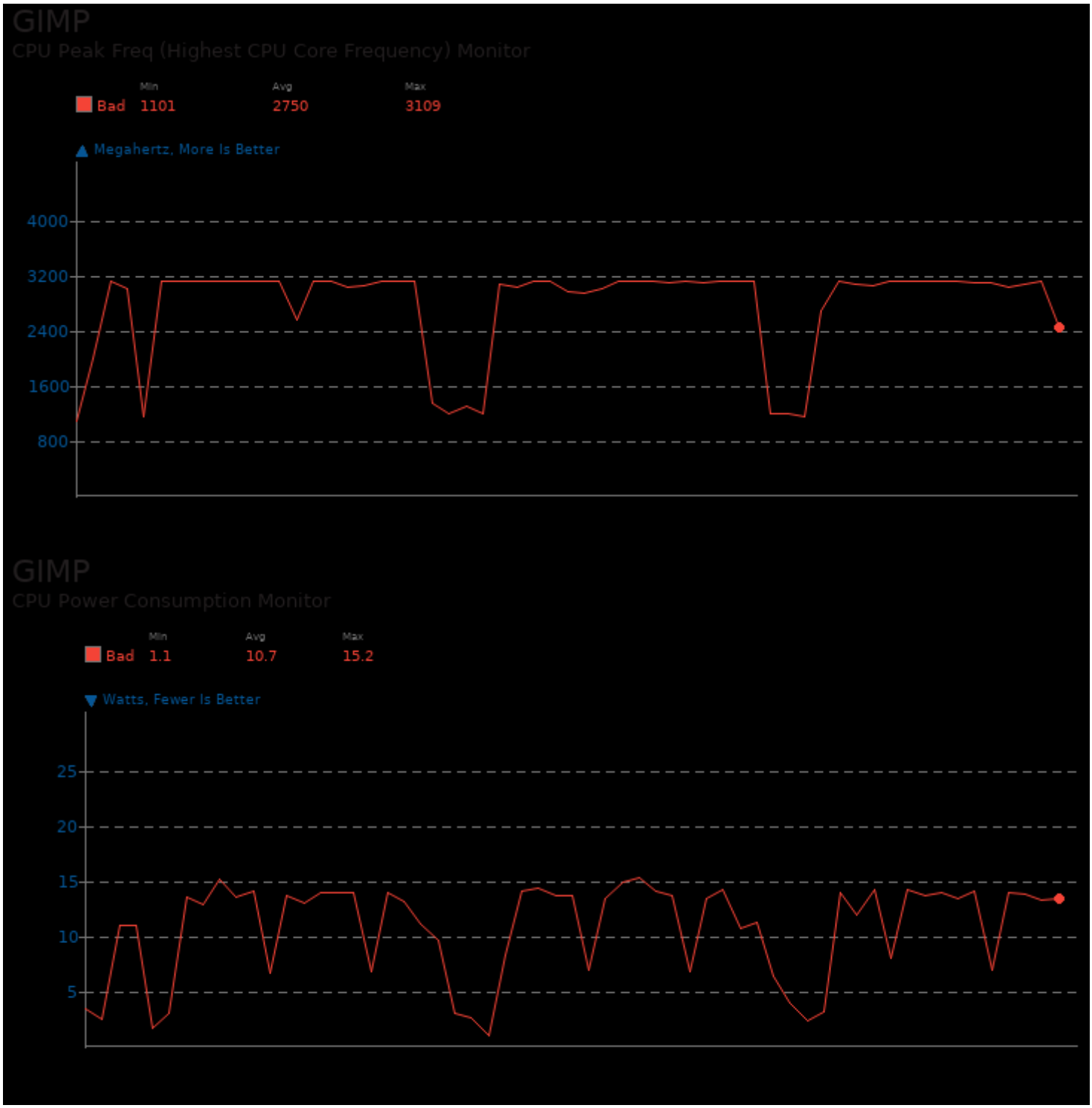
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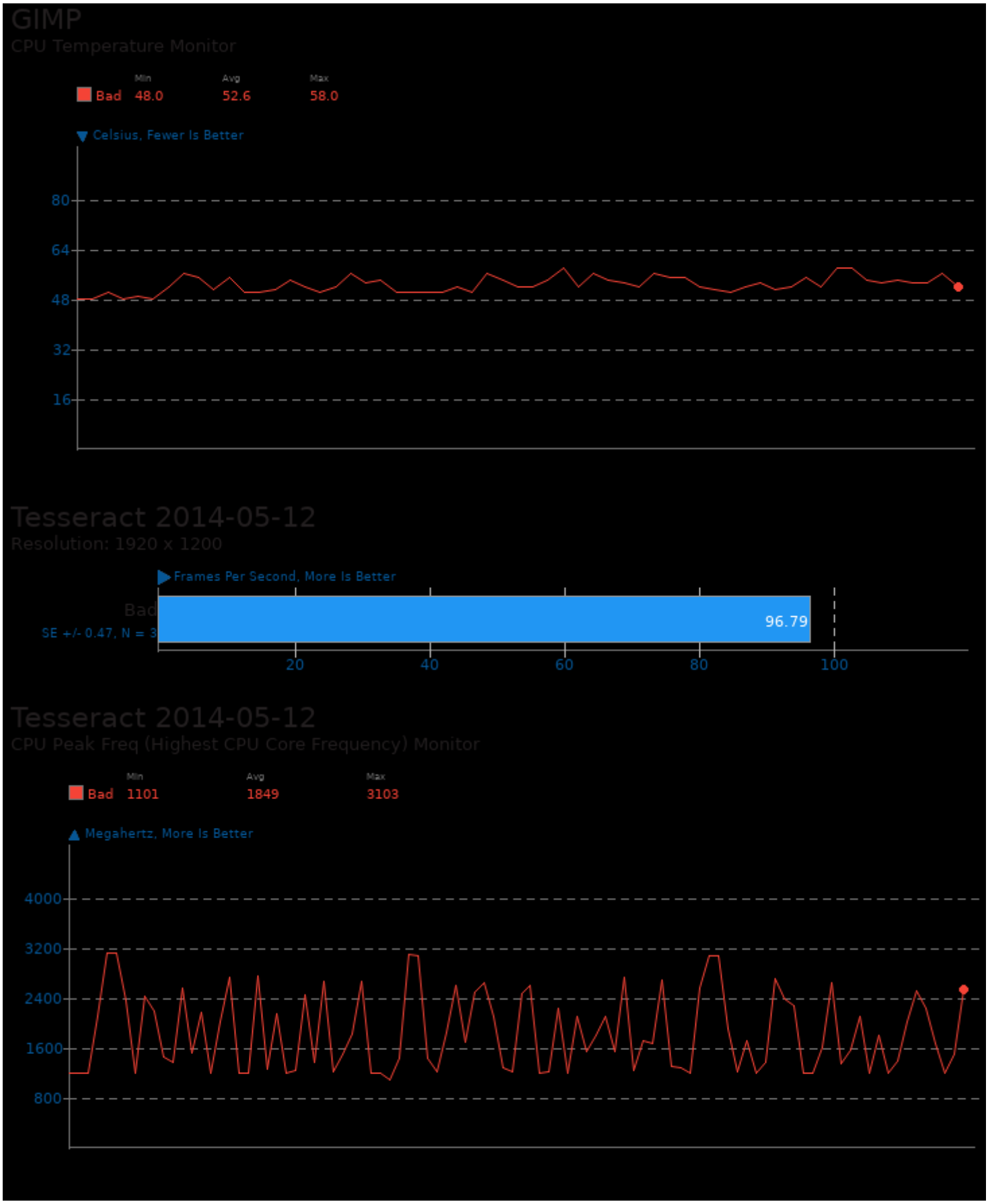
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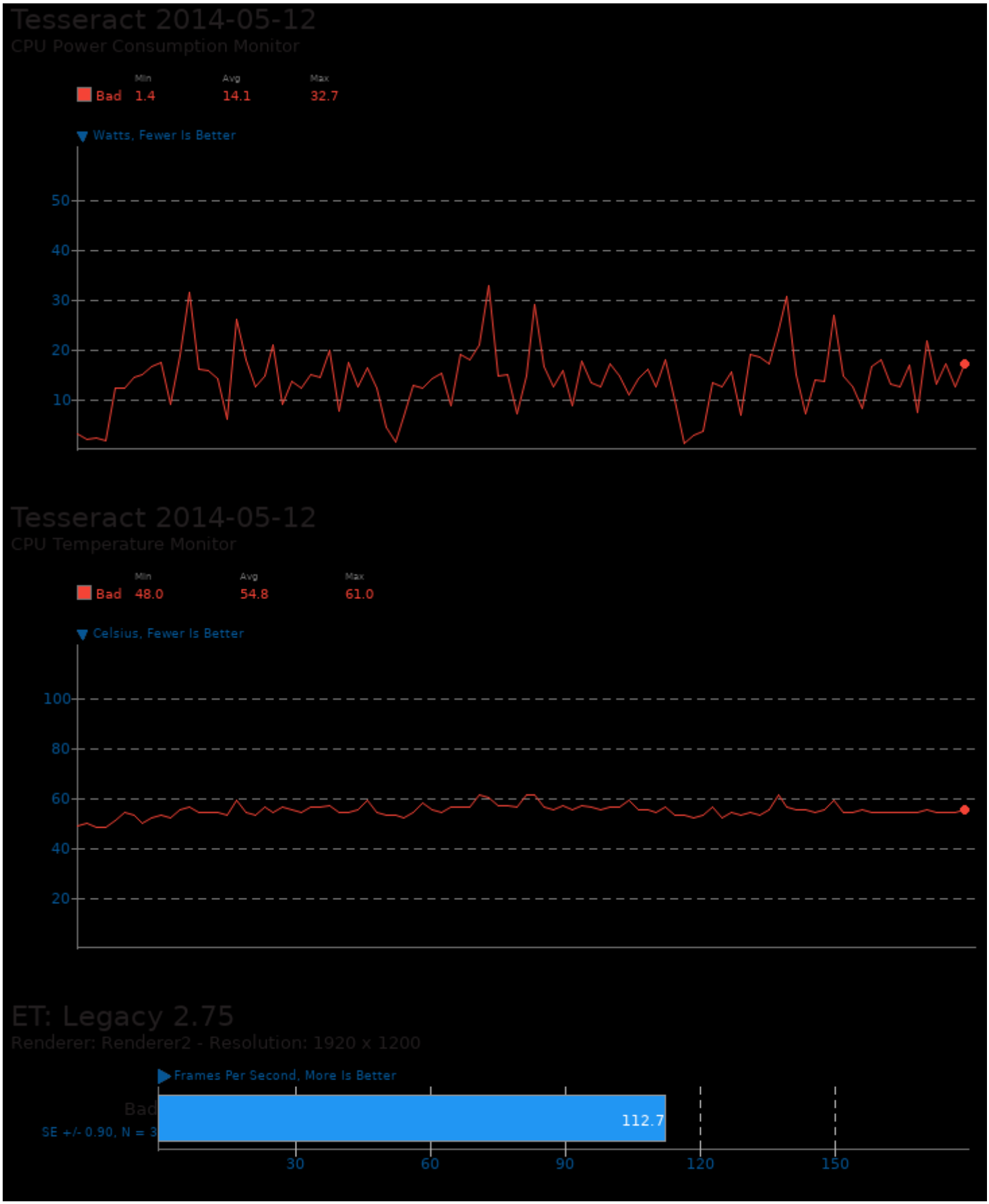
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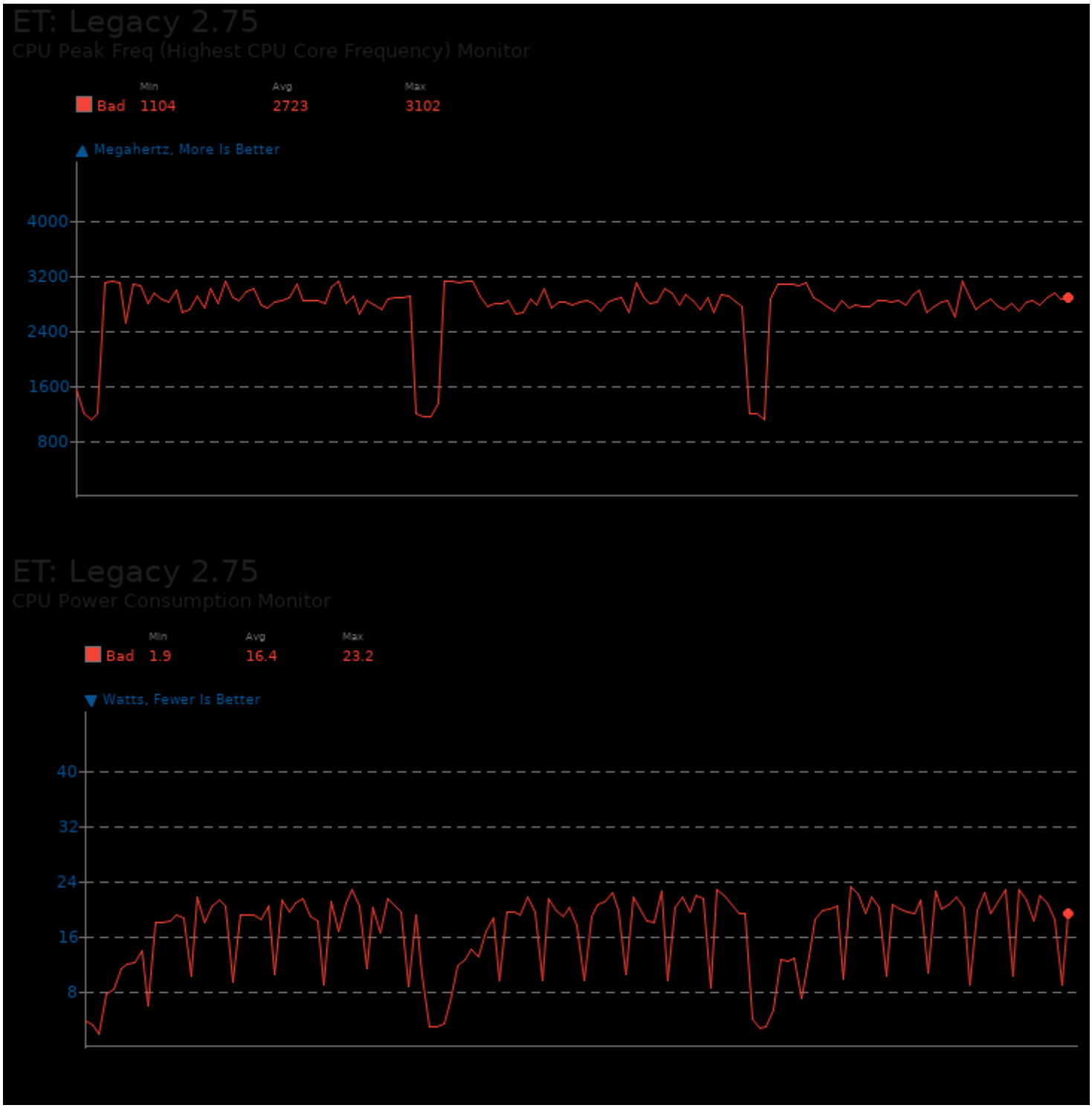
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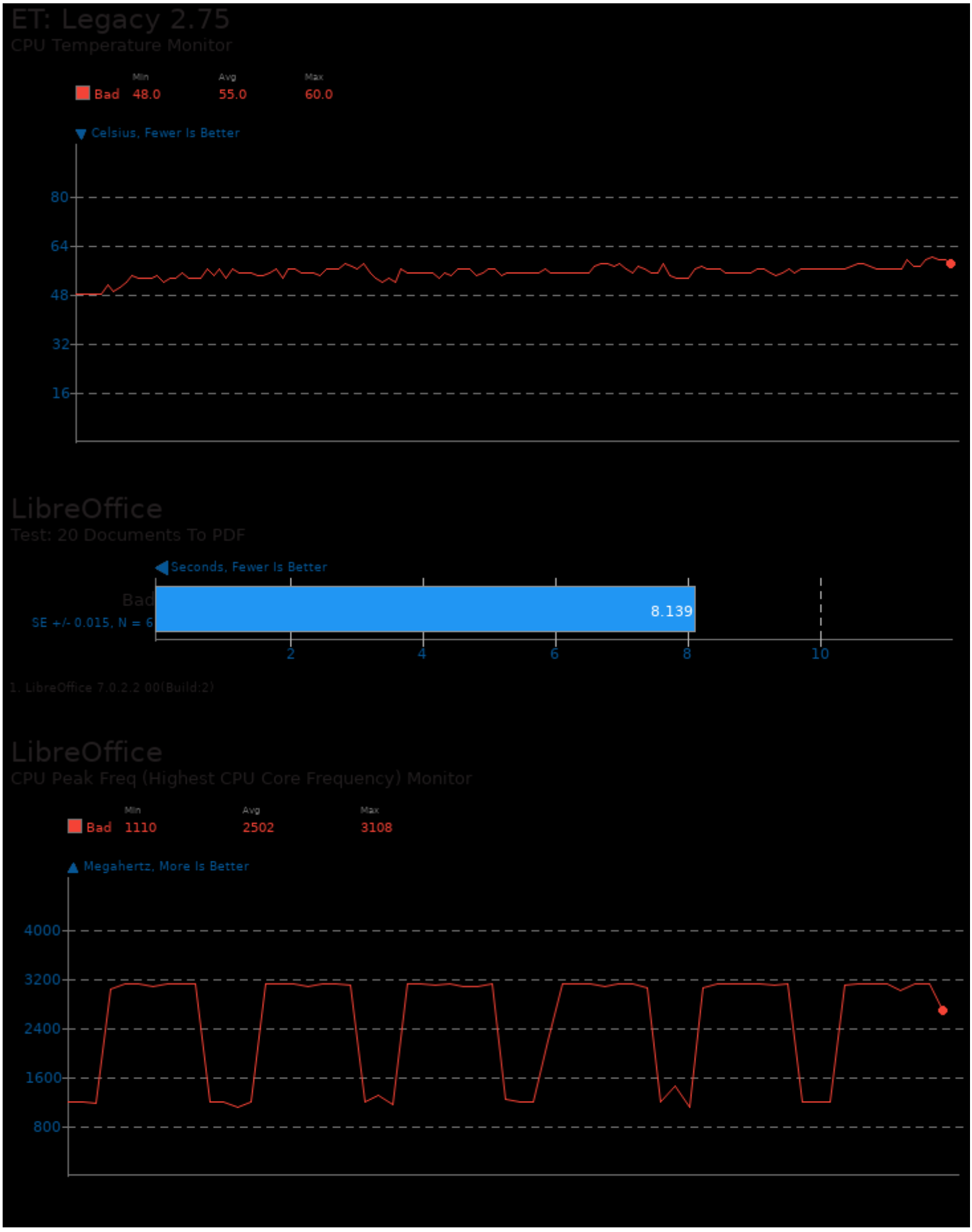
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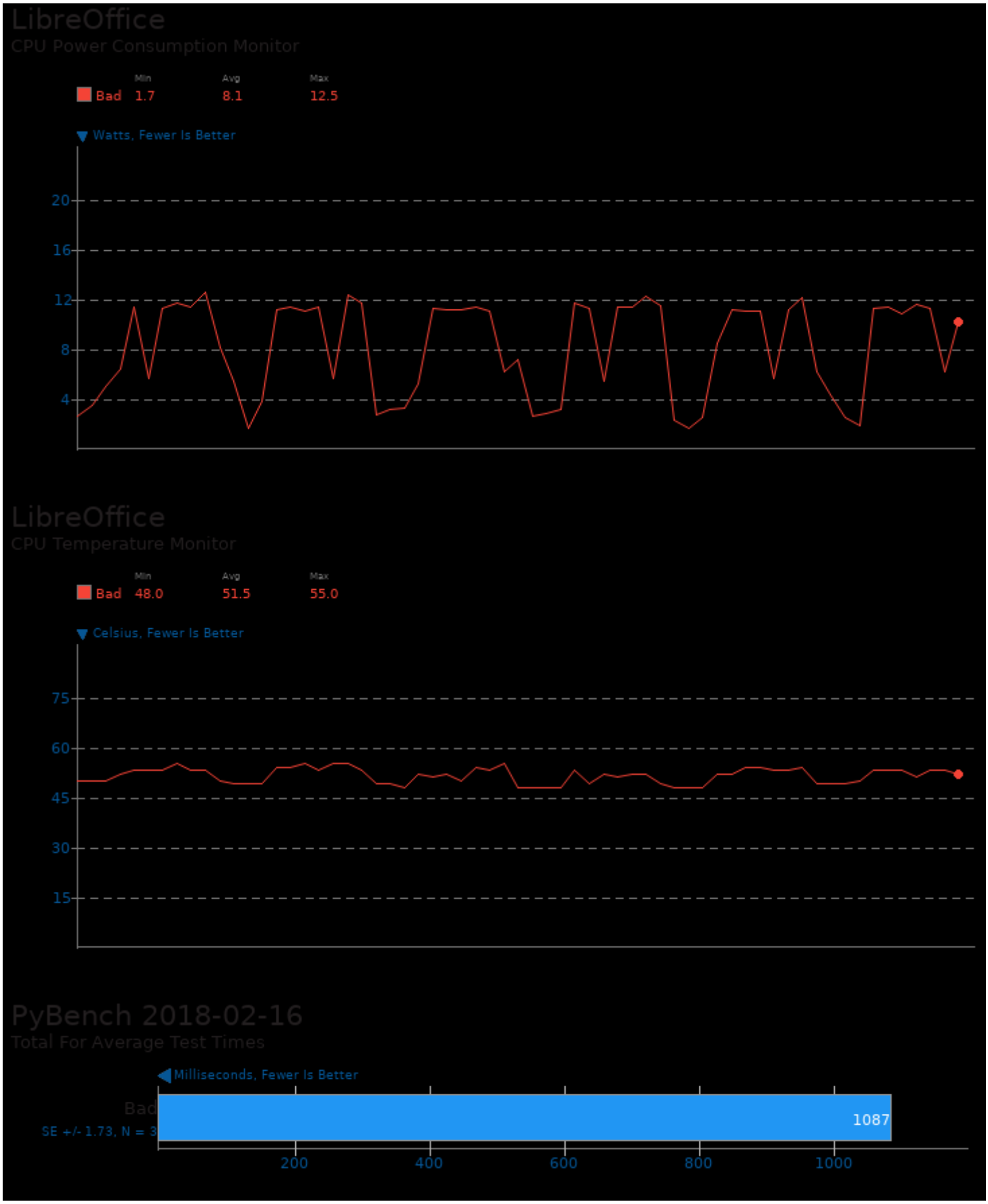
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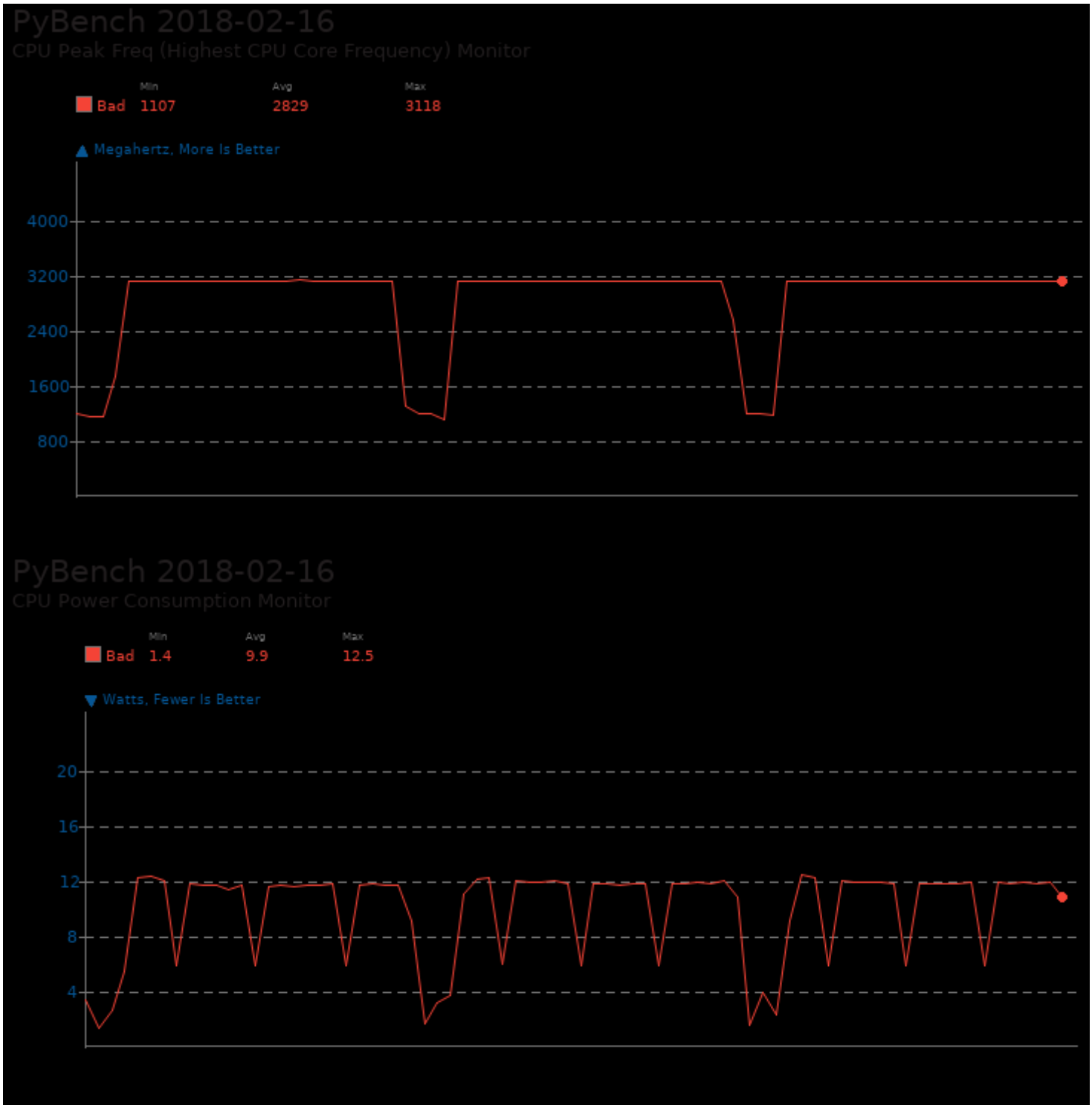
Compare Ubuntu i7-1165G7



Compare Ubuntu i7-1165G7



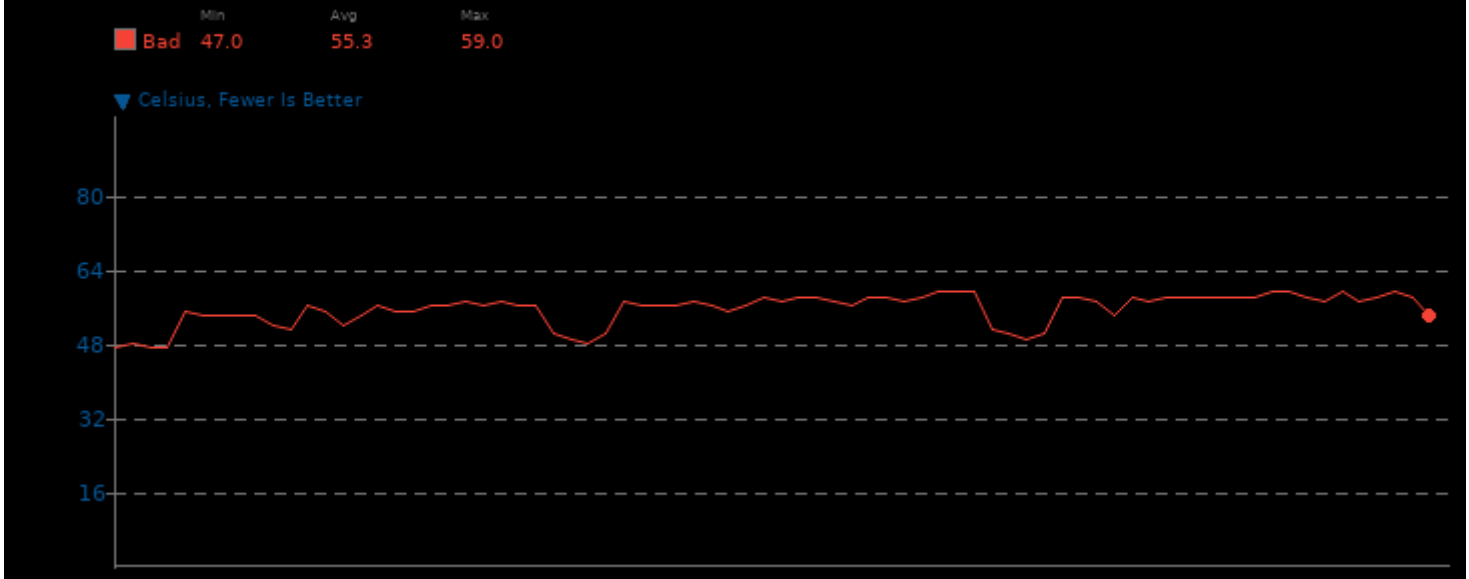
Compare Ubuntu i7-1165G7



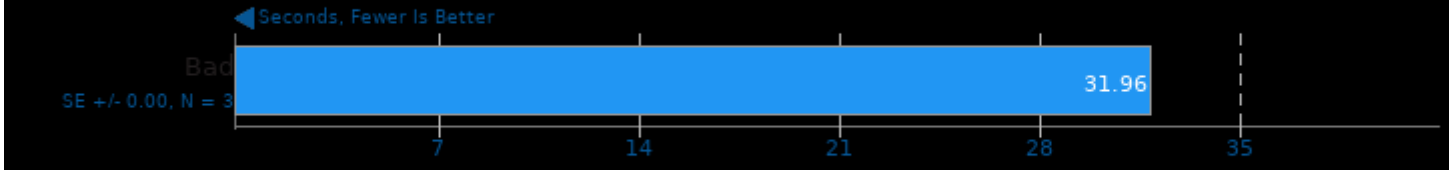
Compare Ubuntu i7-1165G7

PyBench 2018-02-16

CPU Temperature Monitor



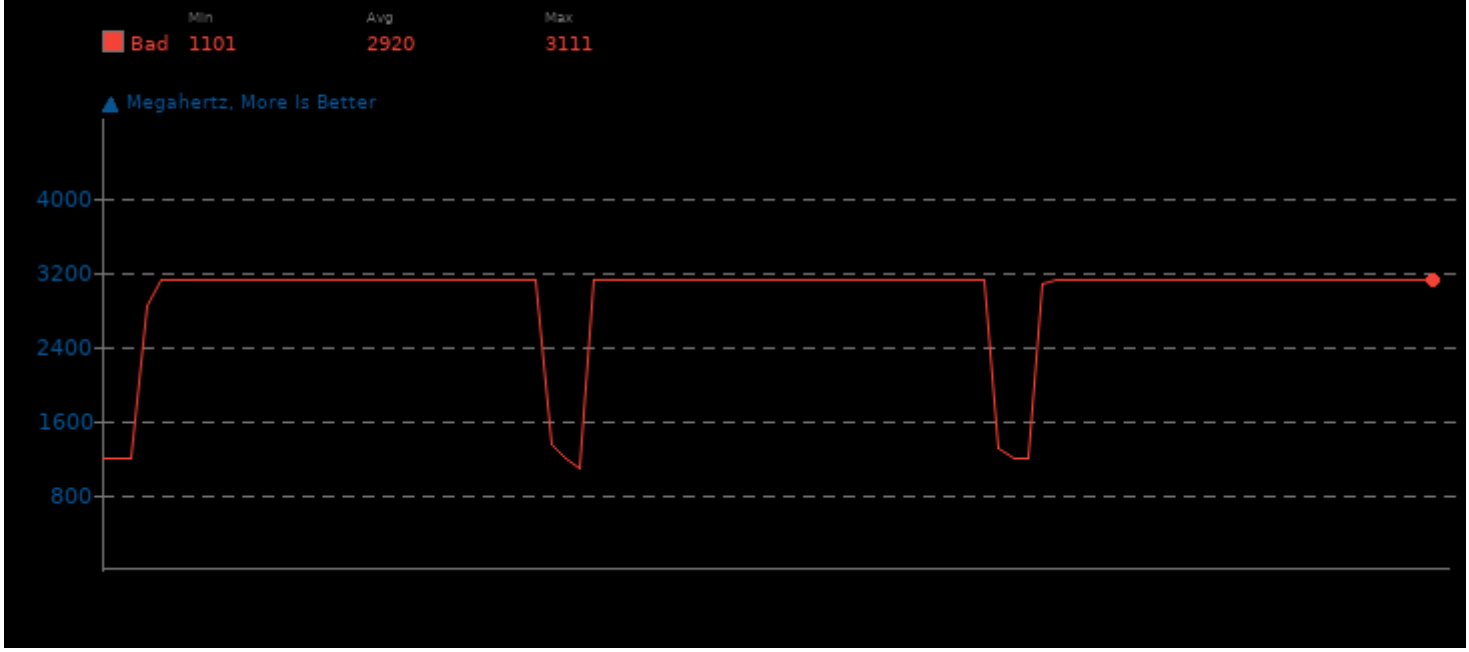
RNNoise 2020-06-28

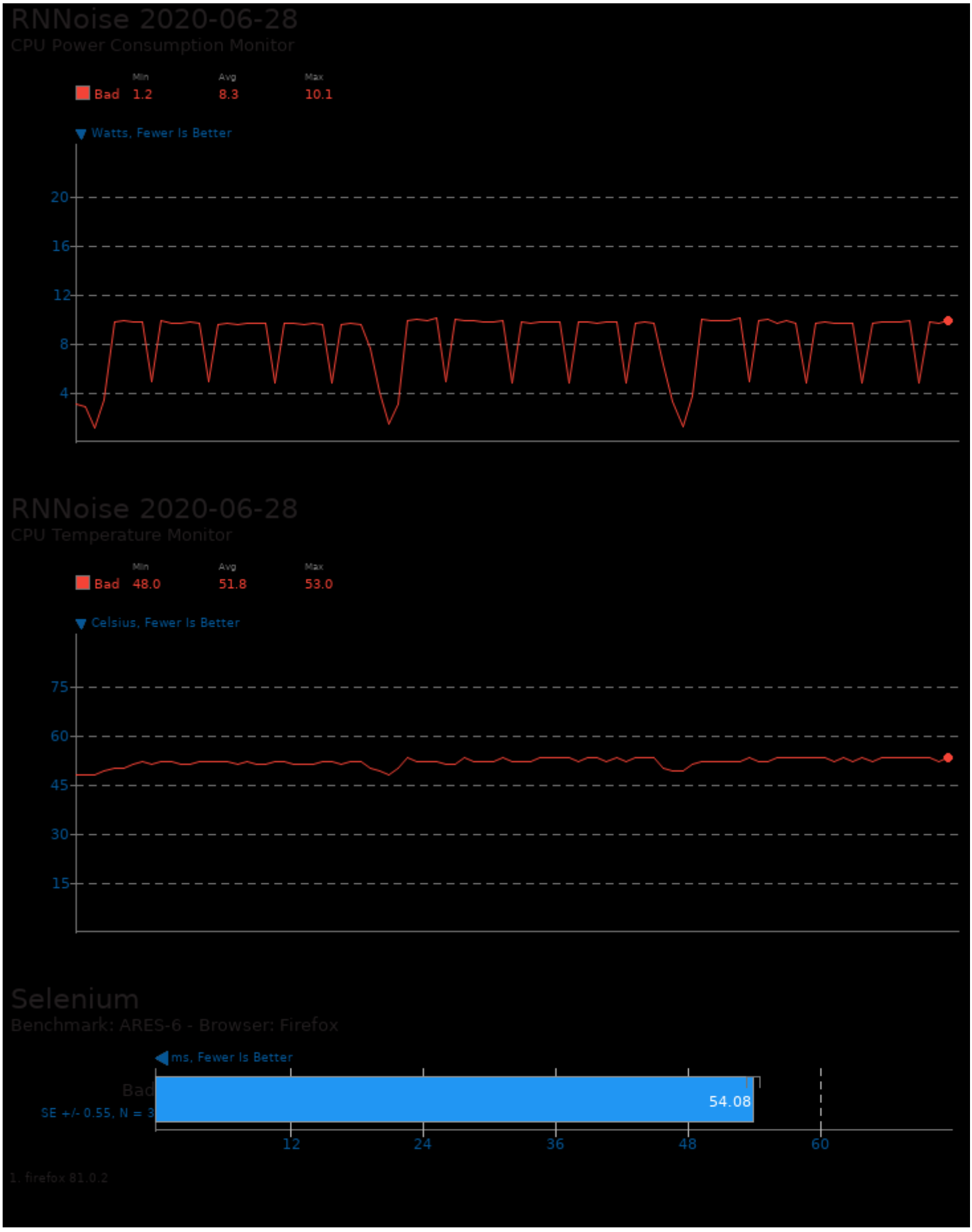


1. (CC) gcc options: -O2 -pedantic -fvisibility=hidden

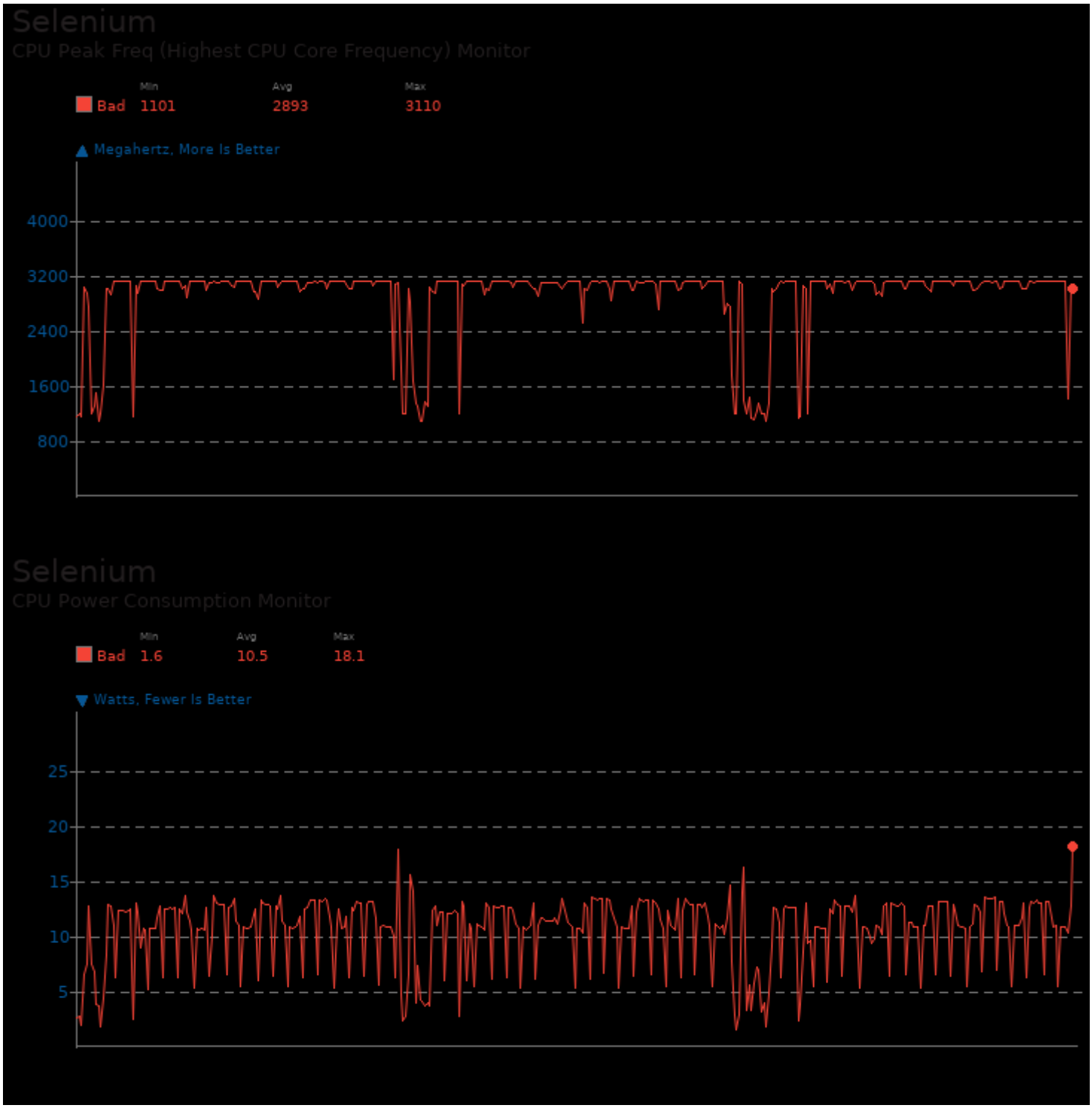
RNNoise 2020-06-28

CPU Peak Freq (Highest CPU Core Frequency) Monitor




RNNoise 2020-06-28
CPU Power Consumption Monitor
Min
Avg
Max
Bad
1.2
8.3
10.1
Watts, Fewer Is Better
20
16
12
8
4
RNNoise 2020-06-28
CPU Temperature Monitor
Min
Avg
Max
Bad
48.0
51.8
53.0
Celsius, Fewer Is Better
75
60
45
30
15
Selenium
Benchmark: ARES-6 - Browser: Firefox
ms, Fewer Is Better
Bad
SE +/- 0.55, N = 3
54.08
12
24
36
48
60
1. firefox 81.0.2

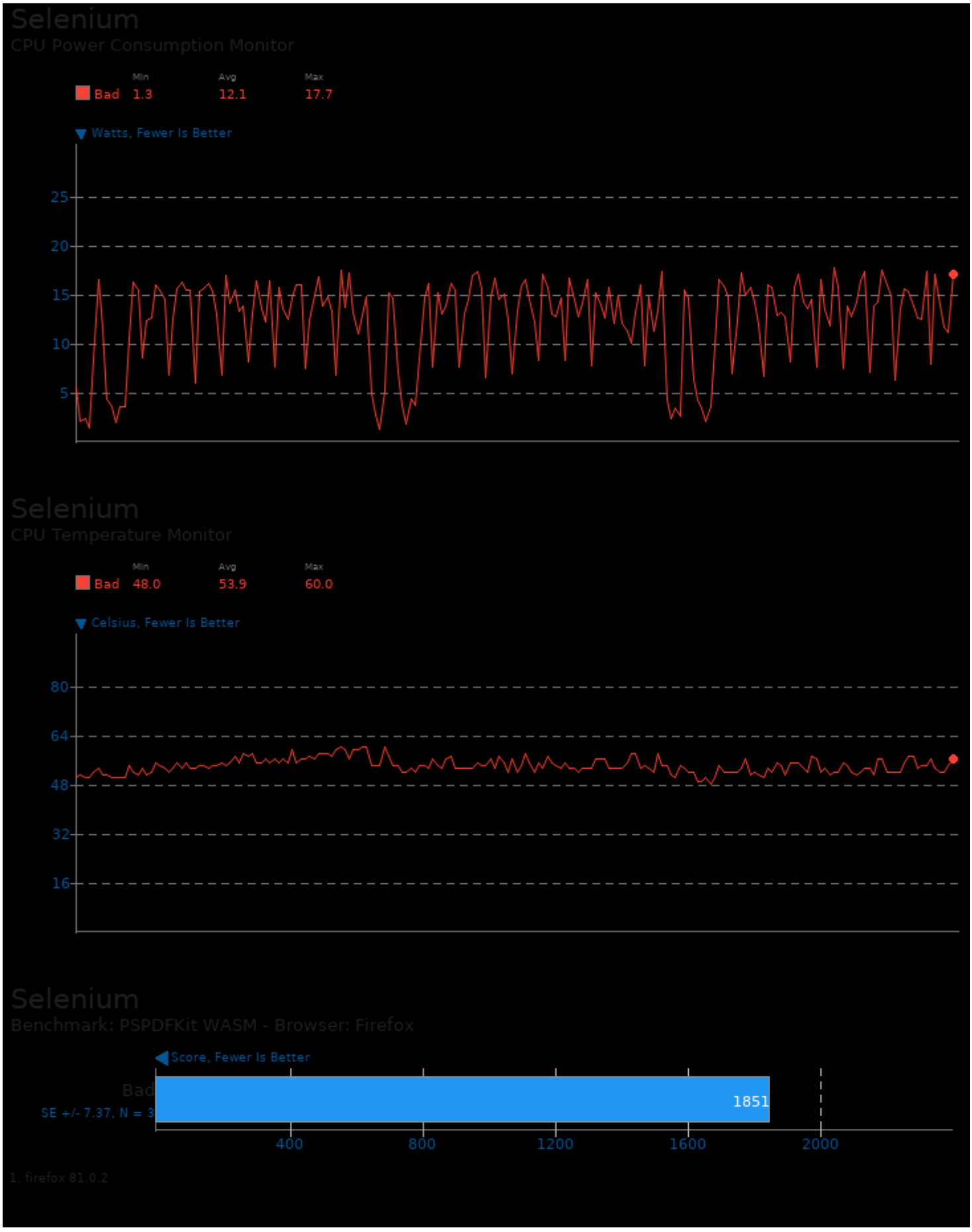
Compare Ubuntu i7-1165G7



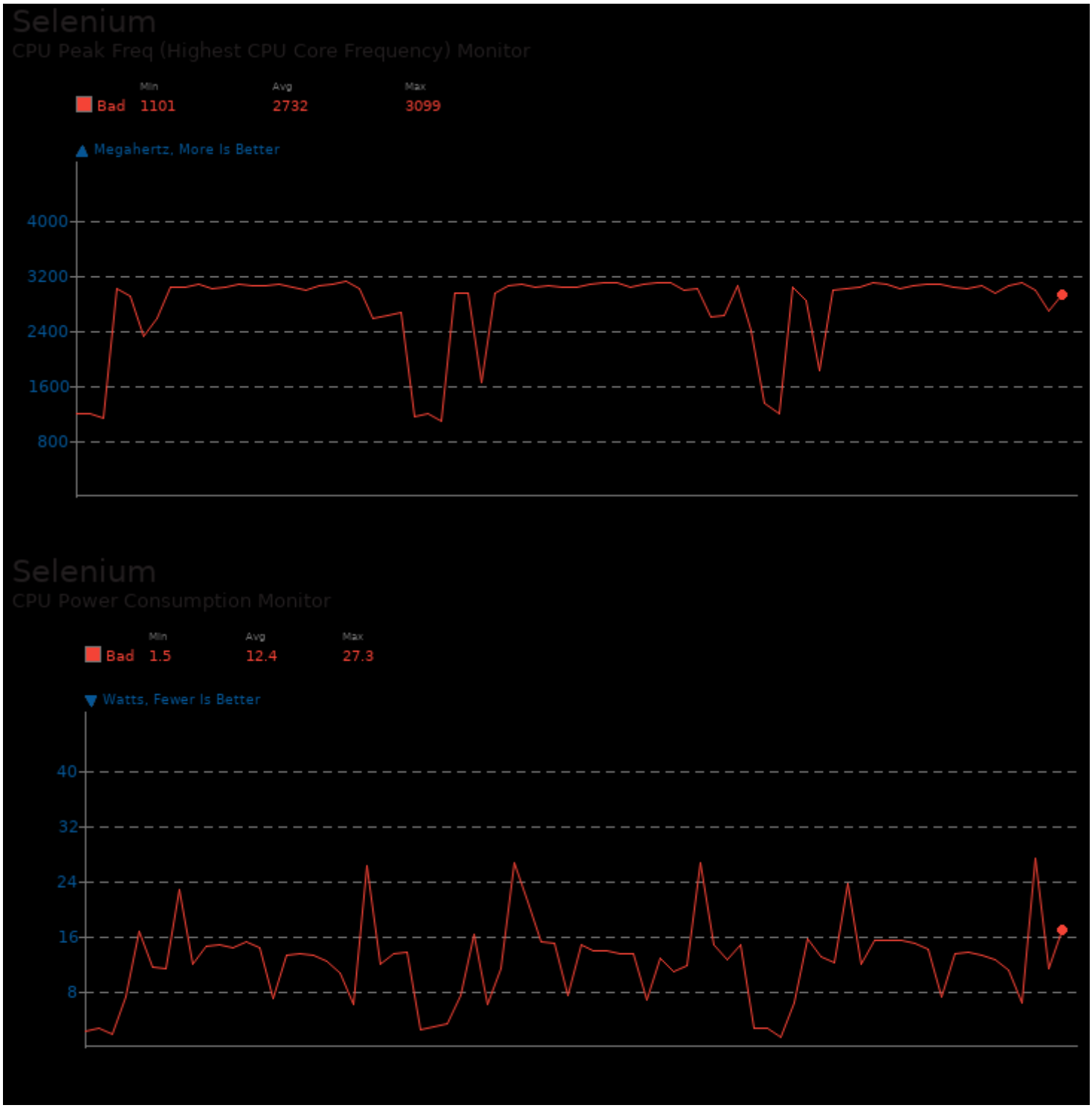
Compare Ubuntu i7-1165G7



Compare Ubuntu i7-1165G7

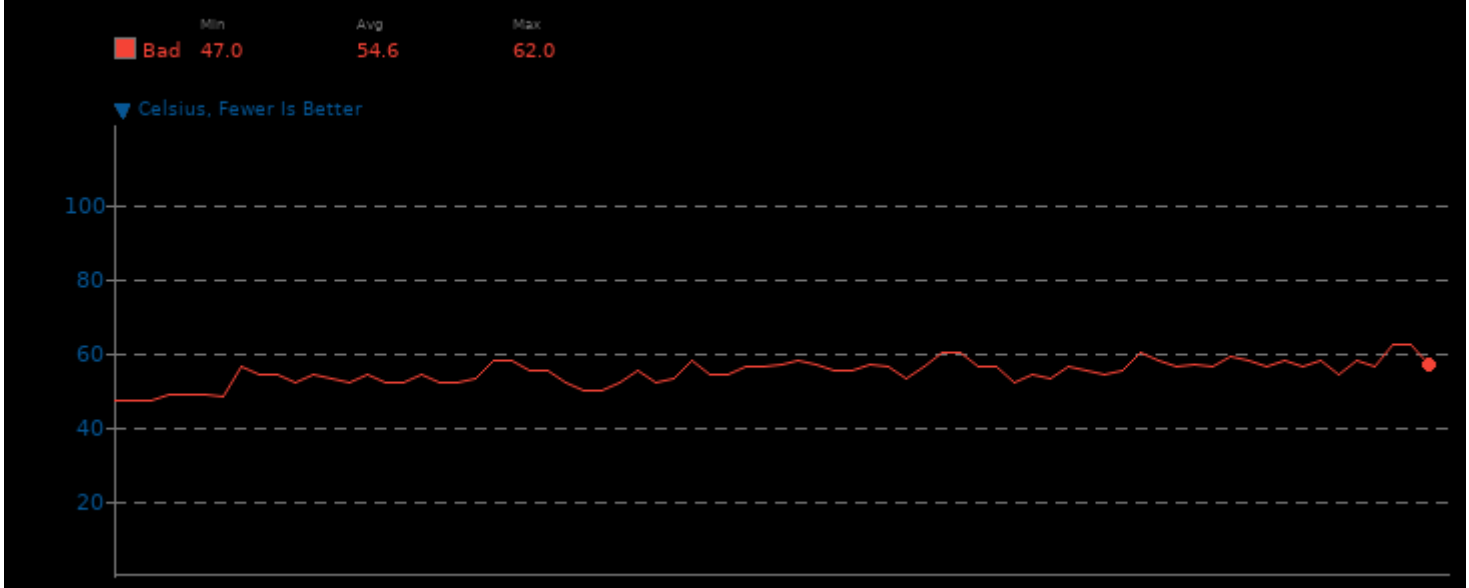


Compare Ubuntu i7-1165G7

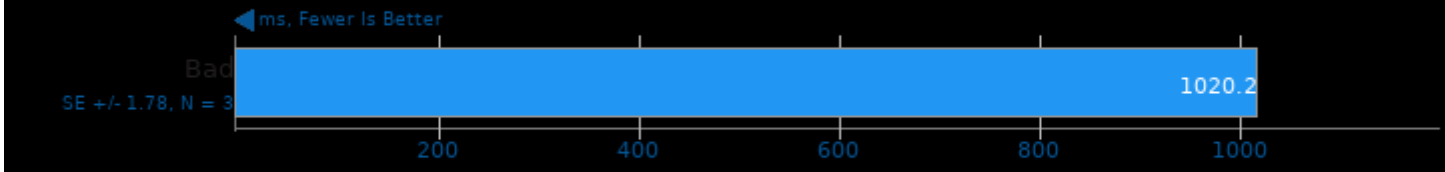


Compare Ubuntu i7-1165G7

Selenium
CPU Temperature Monitor

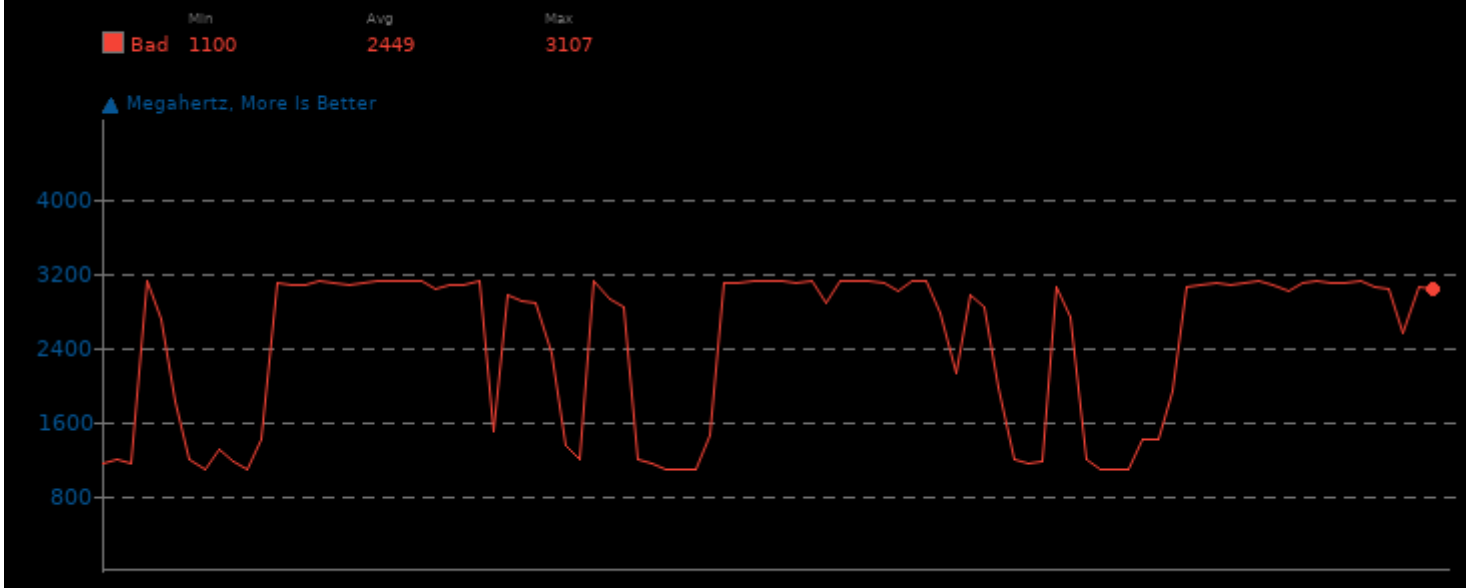


Selenium
Benchmark: Kraken - Browser: Firefox

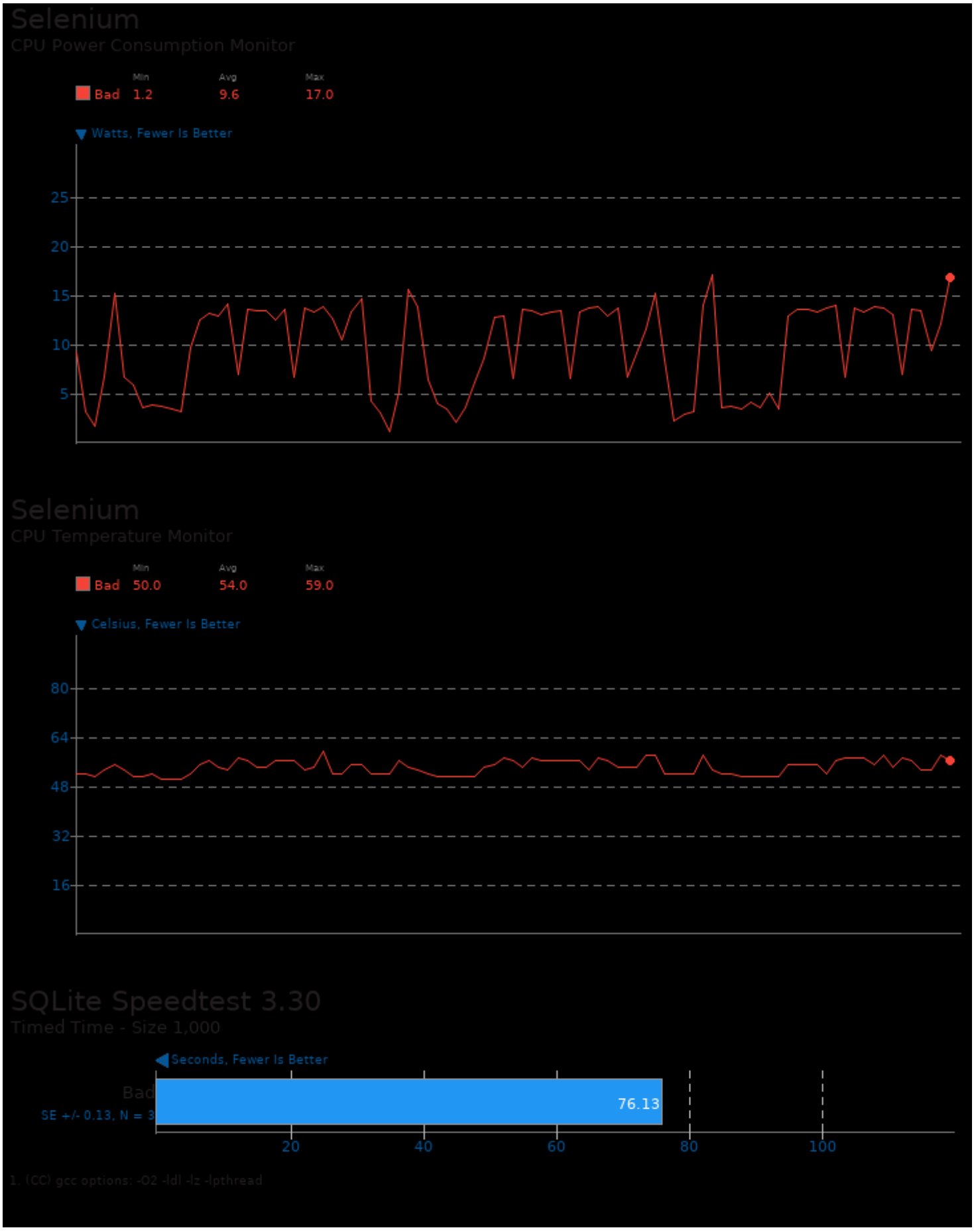


1. firefox 81.0.2

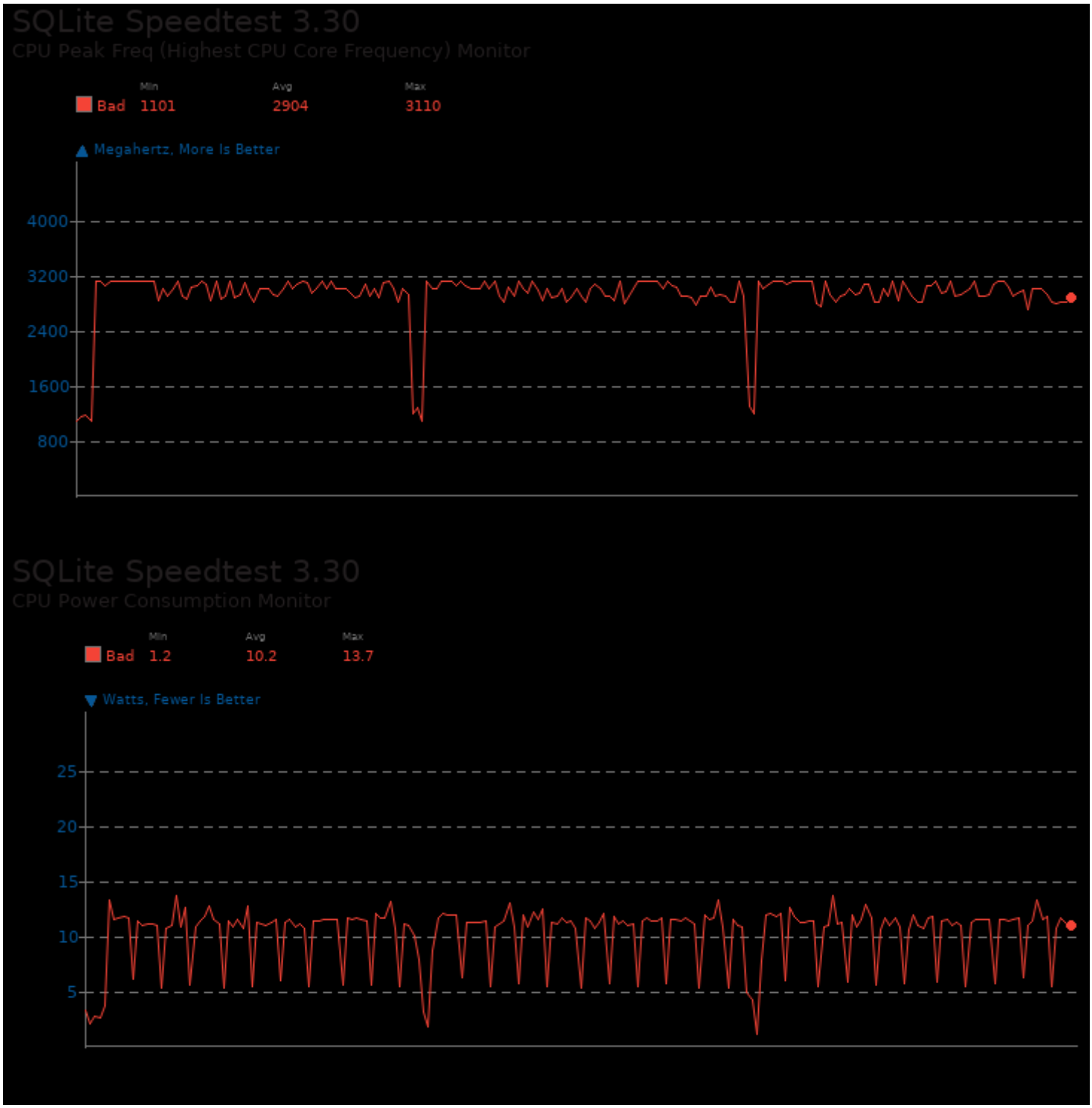
Selenium
CPU Peak Freq (Highest CPU Core Frequency) Monitor

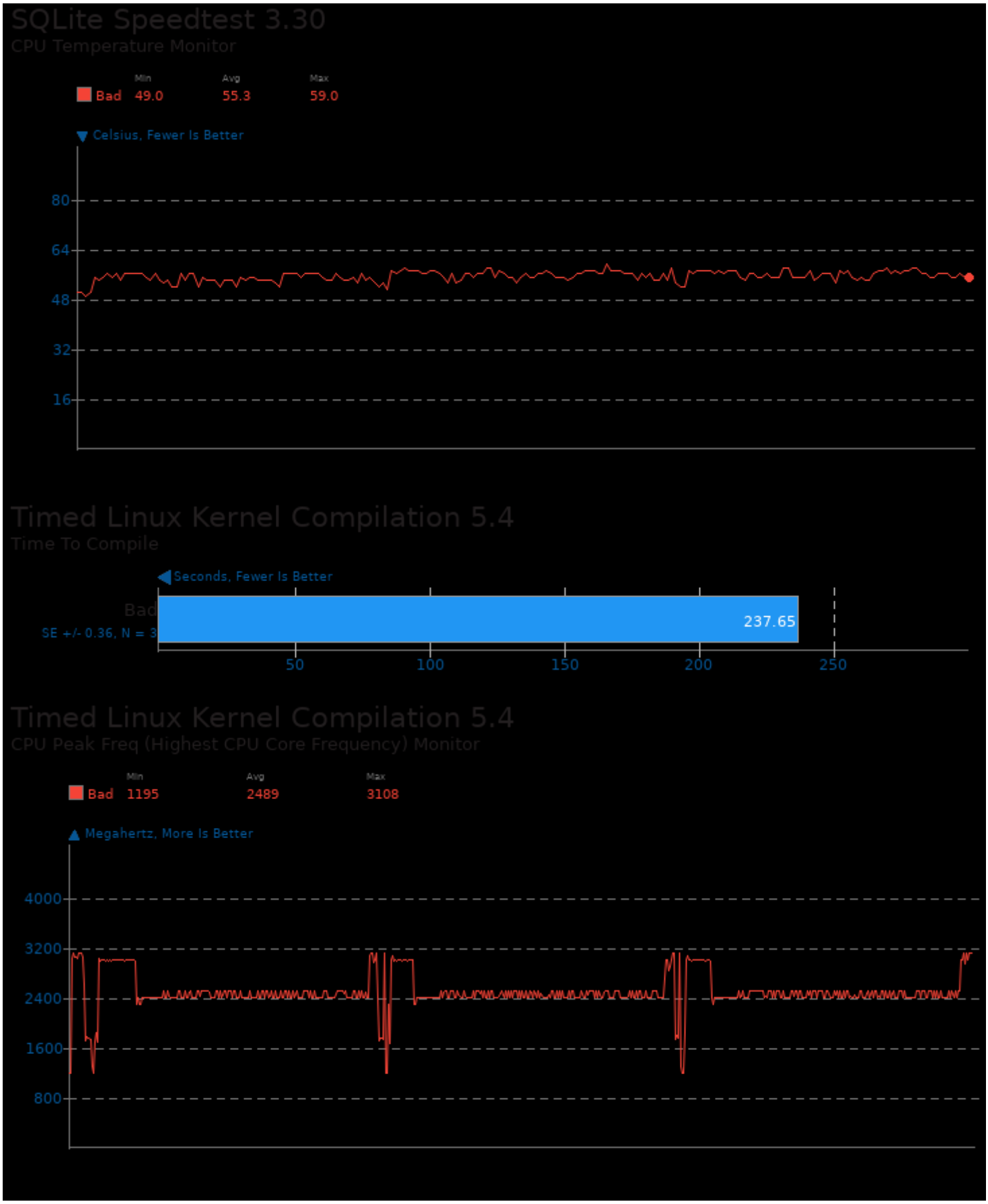


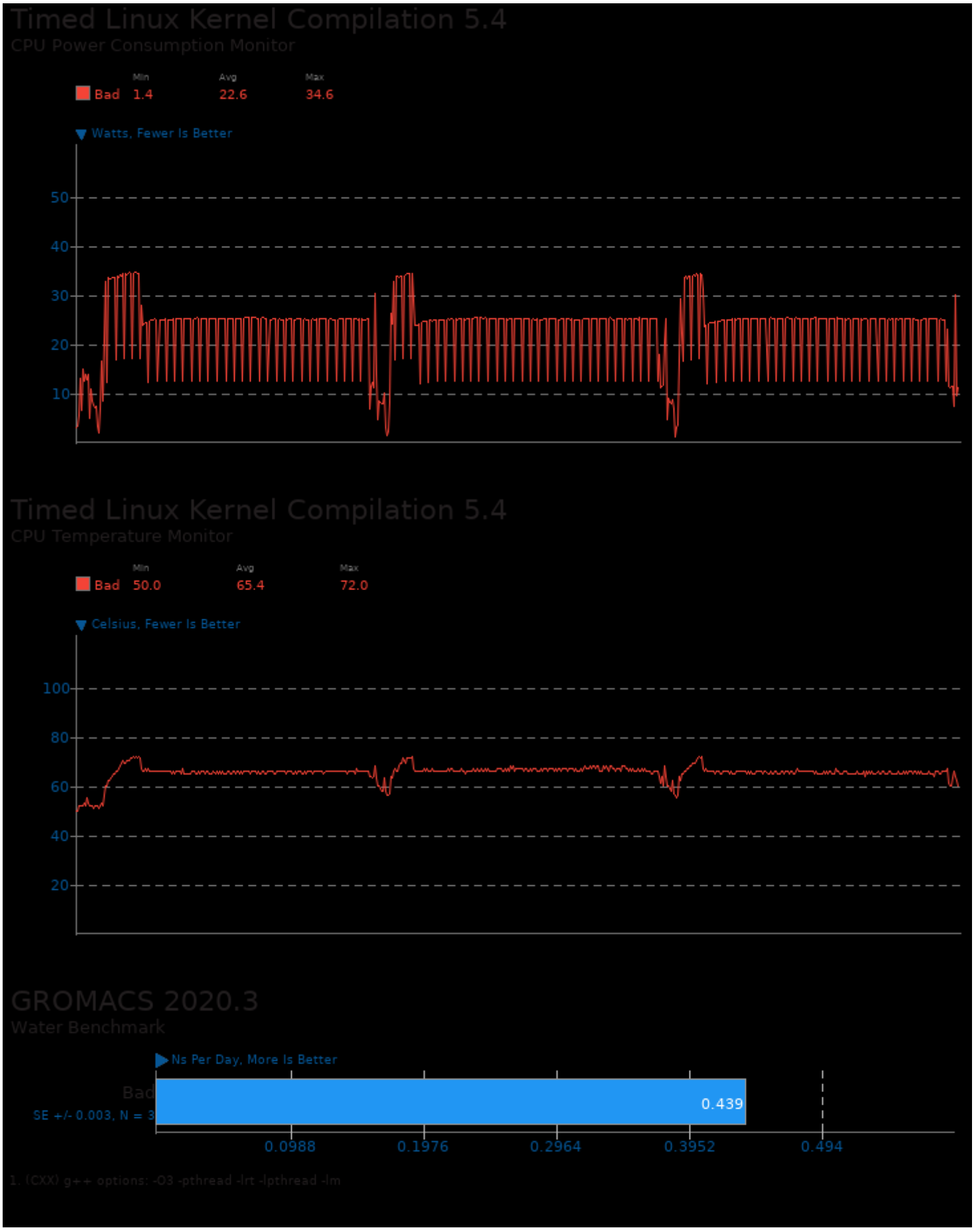
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Compare Ubuntu i7-1165G7

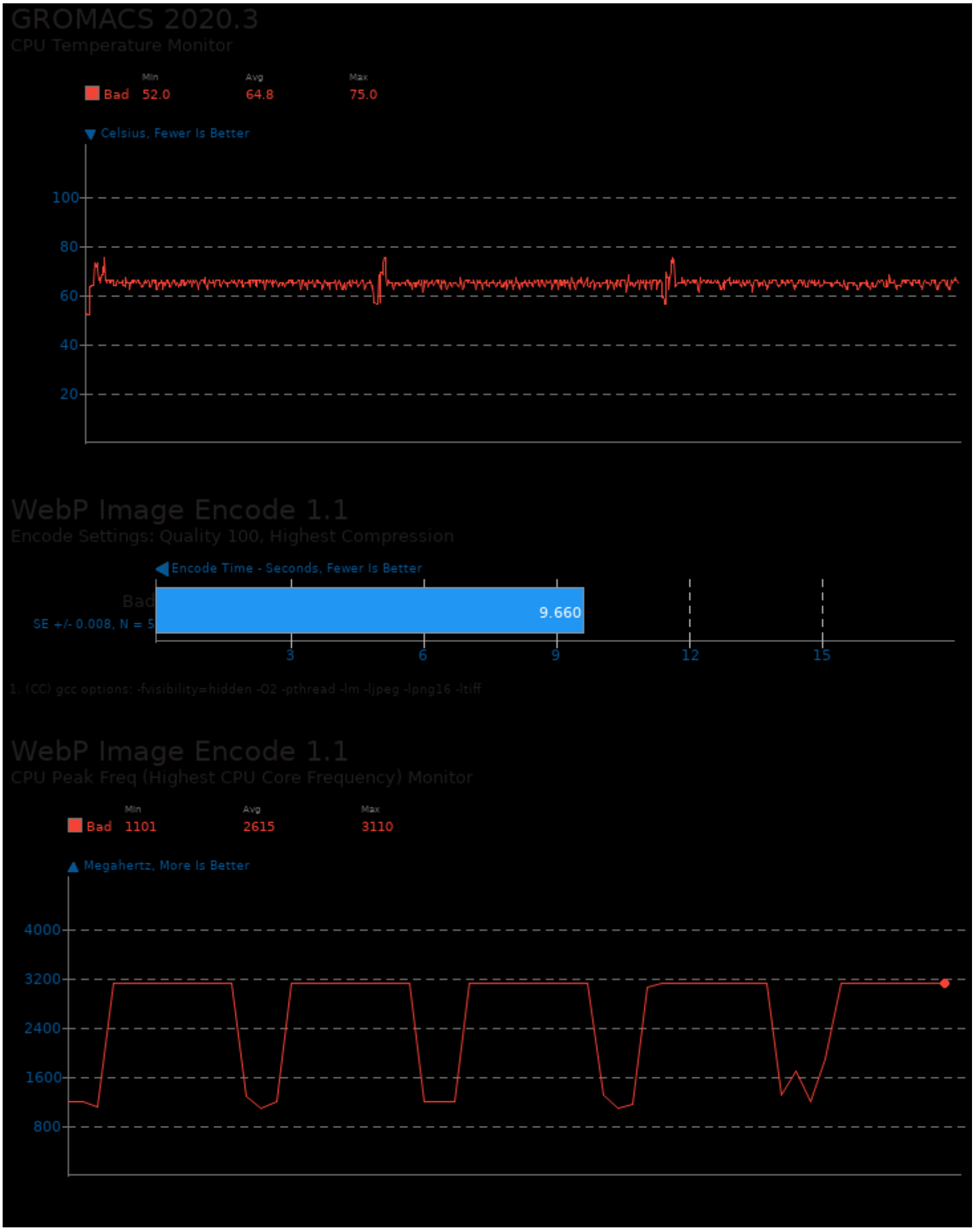


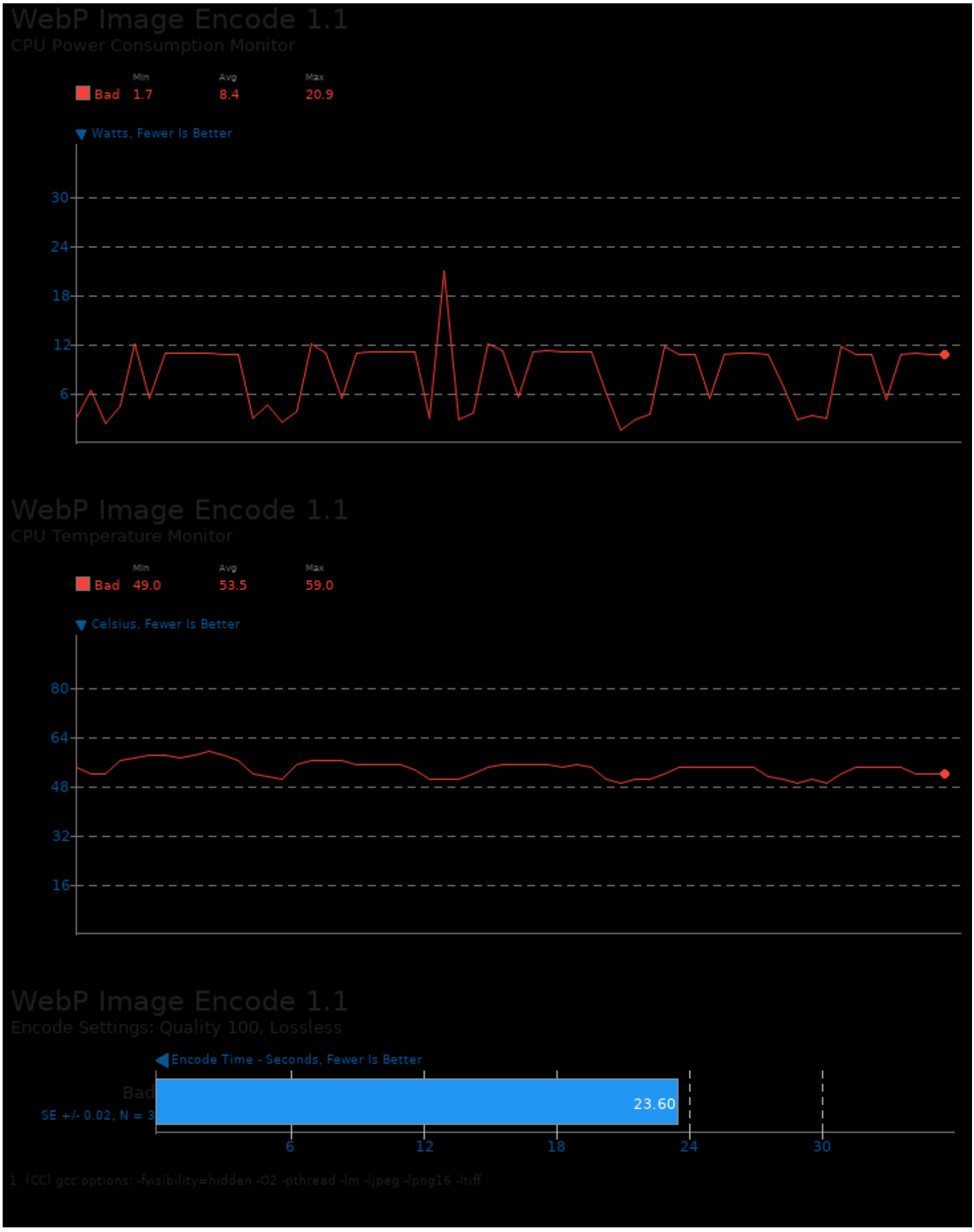

SQLite Speedtest 3.30
CPU Temperature Monitor
Min
Avg
Max
Bad
49.0
55.3
59.0
Celsius, Fewer Is Better
80
64
48
32
16
Timed Linux Kernel Compilation 5.4
Time To Compile
Seconds, Fewer Is Better
Bad
SE +/- 0.36, N = 3
237.65
50
100
150
200
250
Timed Linux Kernel Compilation 5.4
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Min
Avg
Max
Bad
1195
2489
3108
Megahertz, More Is Better
4000
3200
2400
1600
800

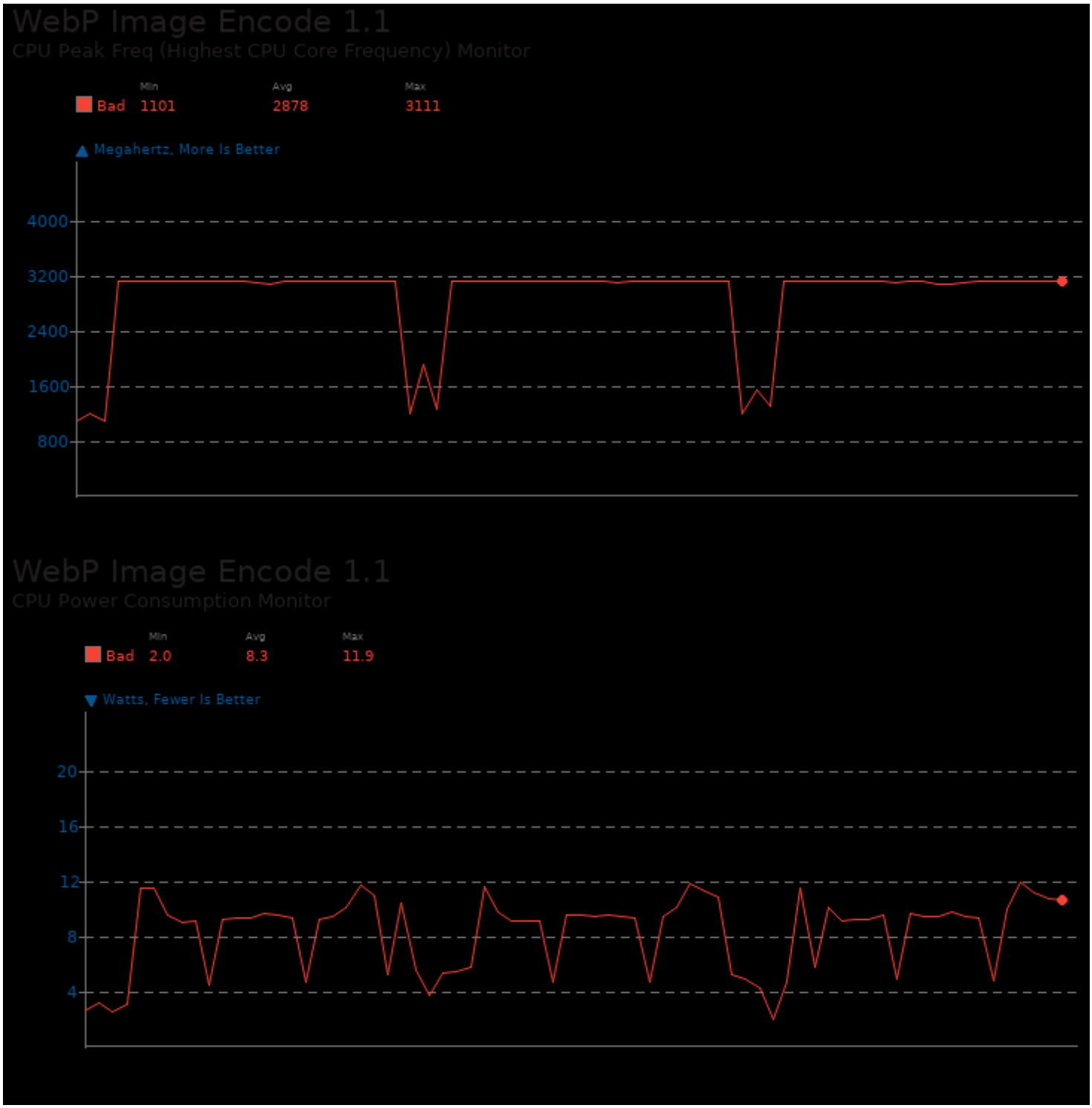

Timed Linux Kernel Compilation 5.4
CPU Power Consumption Monitor
Min
Avg
Max
Bad
1.4
22.6
34.6
Watts, Fewer Is Better
50
40
30
20
10
Timed Linux Kernel Compilation 5.4
CPU Temperature Monitor
Min
Avg
Max
Bad
50.0
65.4
72.0
Celsius, Fewer Is Better
100
80
60
40
20
GROMACS 2020.3
Water Benchmark
Ns Per Day, More Is Better
Bad
SE +/- 0.003, N = 3
0.439
0.0988
0.1976
0.2964
0.3952
0.494
1. (CXX) g++ options: -O3 -pthread -lrt -lpthread -lm

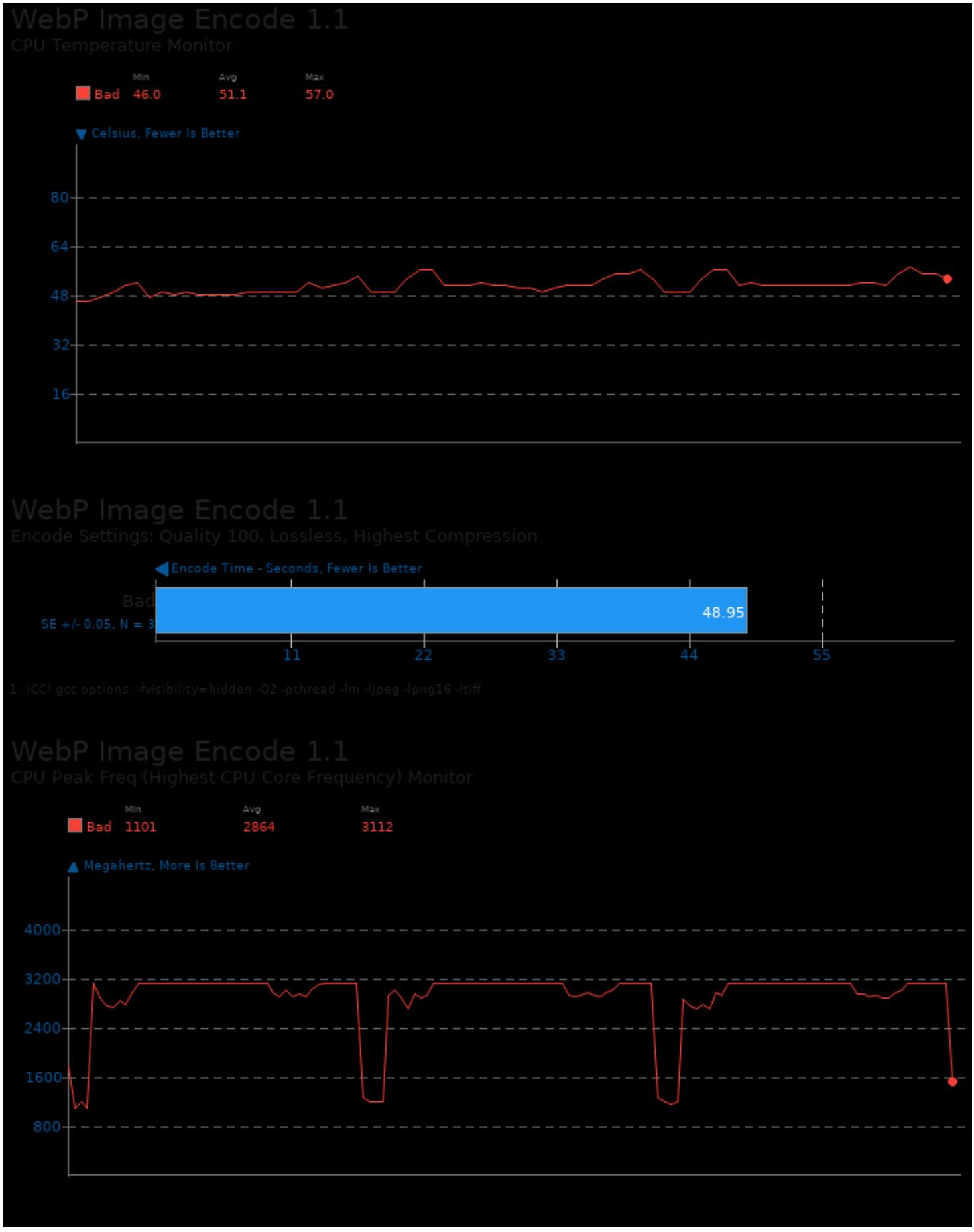
Compare Ubuntu i7-1165G7

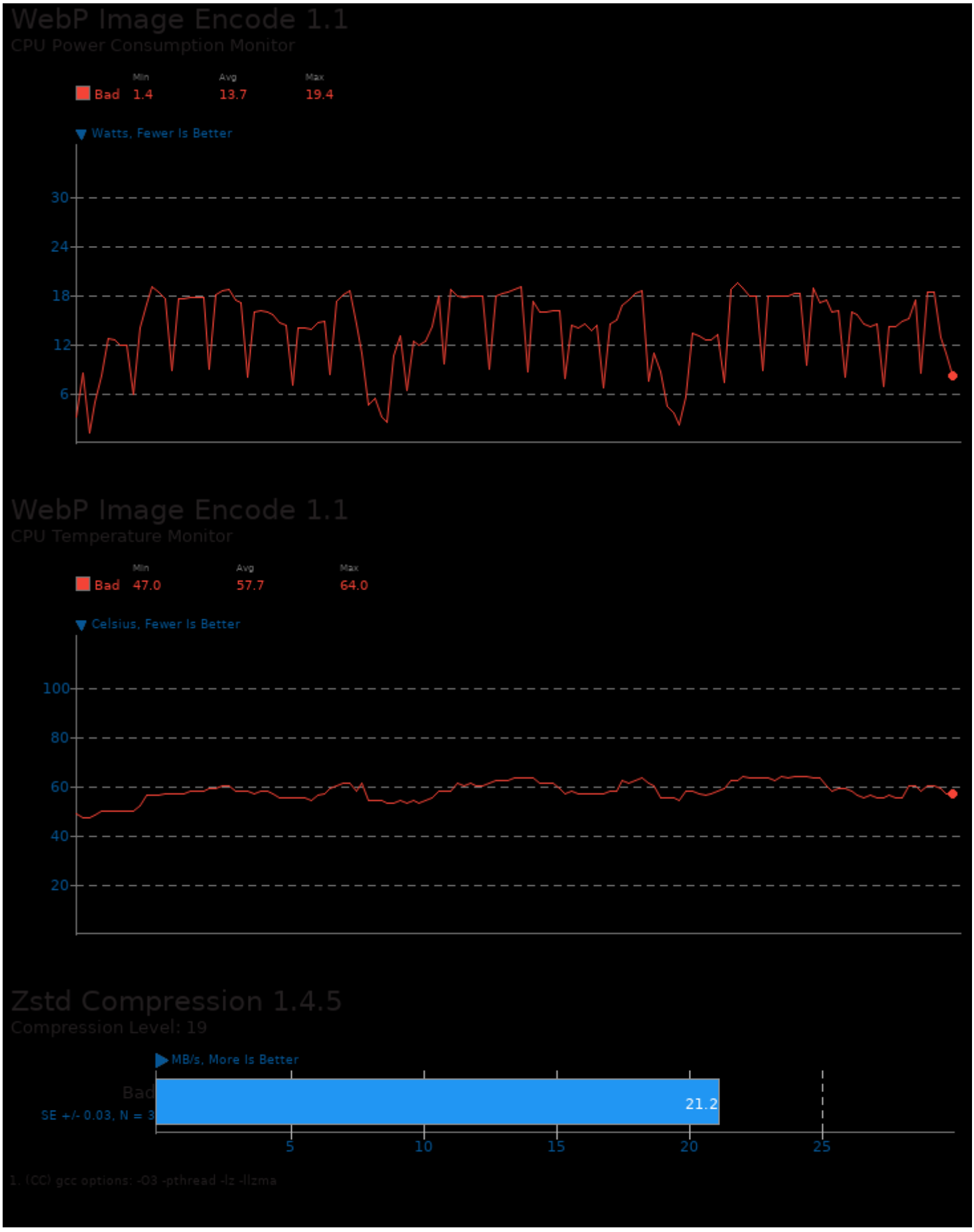



GROMACS 2020.3
CPU Temperature Monitor
Min
Avg
Max
Bad
52.0
64.8
75.0
Celsius, Fewer Is Better
100
80
60
40
20
WebP Image Encode 1.1
Encode Settings: Quality 100, Highest Compression
Encode Time - Seconds, Fewer Is Better
Bad
SE +/- 0.008, N = 5
9.660
3
6
9
12
15
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff
WebP Image Encode 1.1
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Min
Avg
Max
Bad
1101
2615
3110
Megahertz, More Is Better
4000
3200
2400
1600
800

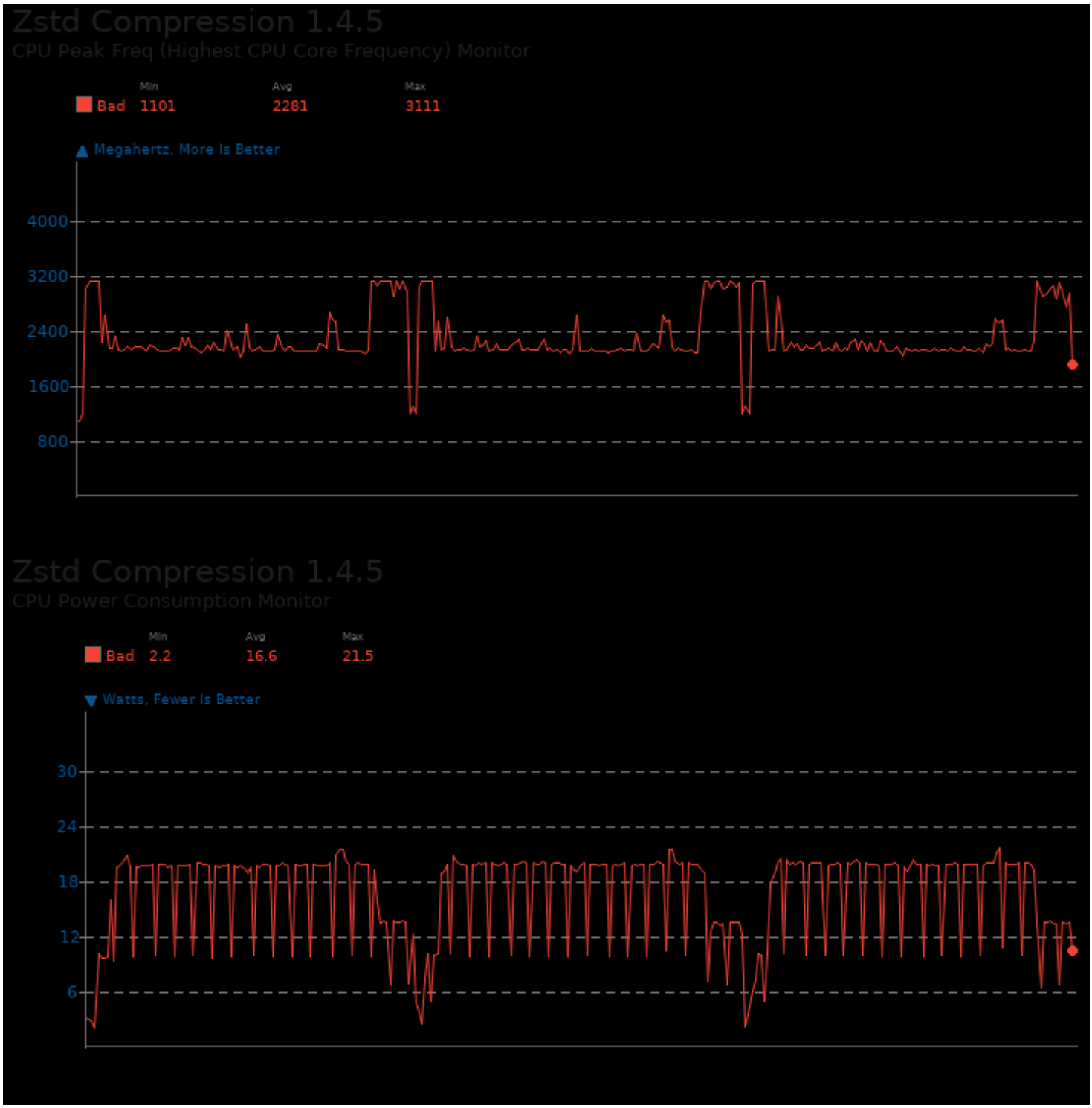

WebP Image Encode 1.1
CPU Power Consumption Monitor
Min
Avg
Max
Bad
1.7
8.4
20.9
Watts, Fewer Is Better
30
24
18
12
6
WebP Image Encode 1.1
CPU Temperature Monitor
Min
Avg
Max
Bad
49.0
53.5
59.0
Celsius, Fewer Is Better
80
64
48
32
16
WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless
Encode Time - Seconds, Fewer Is Better
Bad
SE +/- 0.02, N = 3
23.60
6
12
18
24
30
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff


WebP Image Encode 1.1
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Min
Avg
Max
Bad
1101
2878
3111
Megahertz, More Is Better
4000
3200
2400
1600
800
WebP Image Encode 1.1
CPU Power Consumption Monitor
Min
Avg
Max
Bad
2.0
8.3
11.9
Watts, Fewer Is Better
20
16
12
8
4

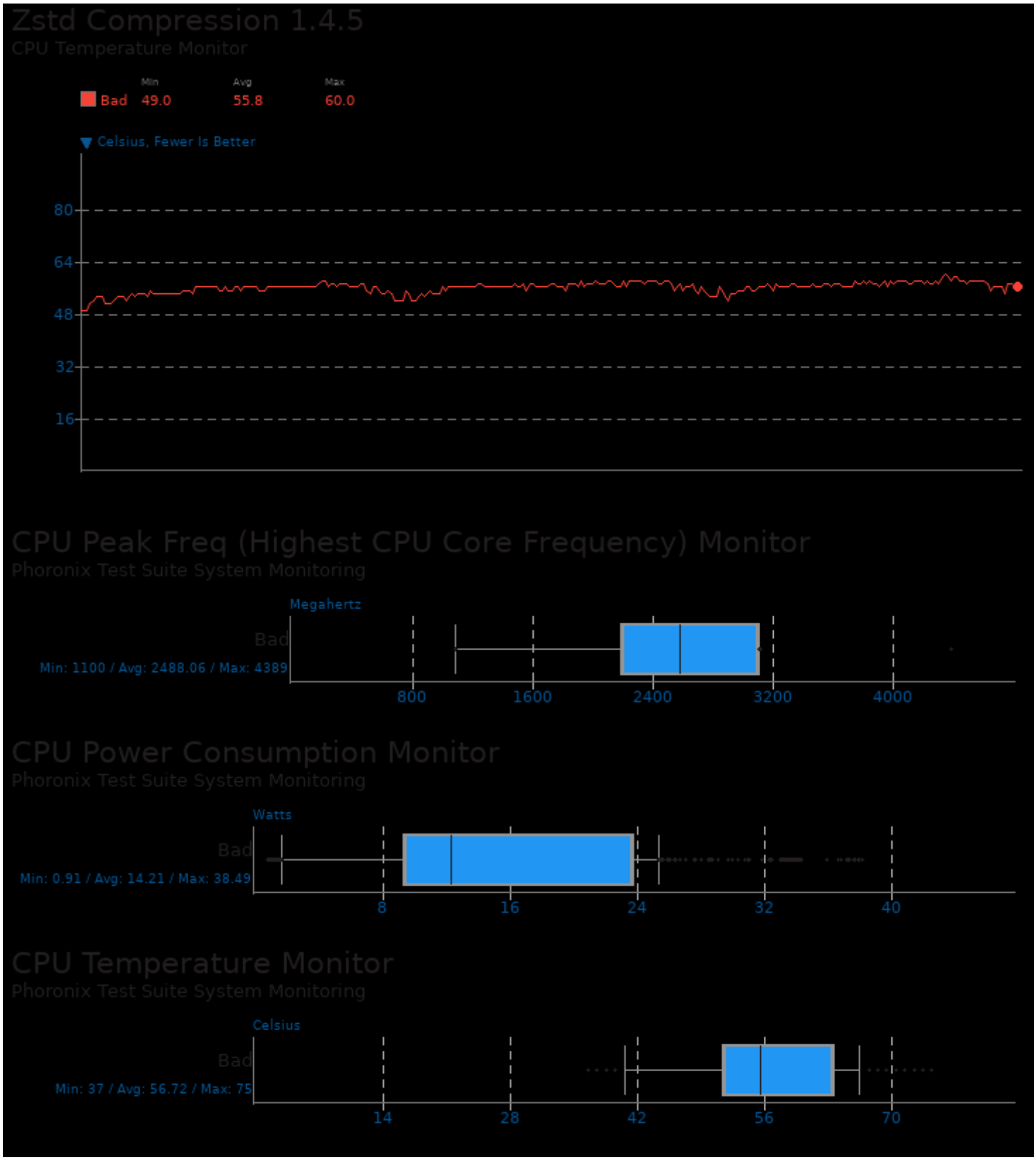

WebP Image Encode 1.1
CPU Temperature Monitor
Min
Avg
Max
Bad
46.0
51.1
57.0
Celsius, Fewer Is Better
80
64
48
32
16
WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless, Highest Compression
Encode Time - Seconds, Fewer Is Better
Bad
SE +/- 0.05, N = 3
48.95
11
22
33
44
55
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff
WebP Image Encode 1.1
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Min
Avg
Max
Bad
1101
2864
3112
Megahertz, More Is Better
4000
3200
2400
1600
800


WebP Image Encode 1.1
CPU Power Consumption Monitor
Min
Avg
Max
Bad
1.4
13.7
19.4
Watts, Fewer Is Better
30
24
18
12
6
WebP Image Encode 1.1
CPU Temperature Monitor
Min
Avg
Max
Bad
47.0
57.7
64.0
Celsius, Fewer Is Better
100
80
60
40
20
Zstd Compression 1.4.5
Compression Level: 19
MB/s, More Is Better
Bad
SE +/- 0.03, N = 3
21.2
5
10
15
20
25
1. (CC) gcc options: -O3 -pthread -lz -llzma

Compare Ubuntu i7-1165G7



Compare Ubuntu i7-1165G7



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 03:01.