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OnLogic Ryzen 4800U

Intel Core i7-10700T testing with a Logic Supply RXM-181 (Z01-0002A026 BIOS) and Intel UHD 630 CML GT2 3GB on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

4800U had the most wins, coming in first place for 51% of the tests.

Based on the geometric mean of all complete results, the fastest (i7 10700T) was 1.048x the speed of the slowest (4800U).

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

Apache HTTP Server (Concurrent Requests: 100) at 3.071x
Apache HTTP Server (Concurrent Requests: 200) at 2.953x
ParaView (Test: Wavelet Volume - Resolution: 1920 x 1080) at 2.939x
ParaView (Test: Wavelet Volume - Resolution: 1920 x 1080) at 2.939x
AOM AV1 (Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p) at 2.536x
AOM AV1 (Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p) at 2.417x
PyPerformance (Benchmark: python_startup) at 2.265x
PyHPC Benchmarks (Device: CPU - Backend: JAX - Project Size: 4194304 - Benchmark: Equation of State) at 2.077x
ONNX Runtime (Model: yolov4 - Device: CPU) at 1.962x

PyHPC Benchmarks (Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Equation of State) at 1.911x.

Test Systems:

4800U

Processor: AMD Ryzen 7 4800U @ 1.80GHz (8 Cores / 16 Threads), Motherboard: ASRock 4X4-4000 (P1.30Q BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 512GB TS512GMTS952T-I, Graphics: AMD Renoir 512MB (1750/400MHz), Audio: AMD Renoir Radeon HD Audio, Monitor: DELL P2415Q, Network: Realtek RTL8125 2.5GbE + Realtek RTL8111/8168/8411 + Intel 8265 / 8275

OS: Ubuntu 21.10, Kernel: 5.16.0-051600rc8daily20220108-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.0-devel (git-4198ca4 2022-01-22 impish-oibaf-ppa) (LLVM 13.0.0 DRM 3.44), Vulkan: 1.2.199, Compiler: GCC 11.2.0, 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-bootstrap --enable-cet --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-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --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 schedutil (Boost: Enabled) - CPU Microcode: 0x8600103
Graphics Notes: BAR1 / Visible vRAM Size: 512 MB
Python Notes: Python 3.9.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

i7 10700T

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: 32GB, Disk: 256GB TS256GMTS800, Graphics: Intel UHD 630 CML GT2 3GB (1200MHz), Audio: Realtek ALC233, Monitor: DELL P2415Q, Network: Intel I219-LM + Intel I210

OS: Ubuntu 21.10, Kernel: 5.13.0-27-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.2, Vulkan: 1.2.182, Compiler: GCC 11.2.0, 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-bootstrap --enable-cet --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-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --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 (EPP: balance_performance) - CPU Microcode: 0xec - Thermald 2.4.6
Python Notes: Python 3.9.7
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

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	4800U	i7 10700T
ParaView - Many Spheres - 1920 x 1080 (Frames / Sec)	**7.14**	**6.00**
Normalized	100%	84.03%
Standard Deviation	0.4%	0.2%
ParaView - Many Spheres - 1920 x 1080 (MiPolys /	**715.389**	**601.411**
Normalized	100%	84.07%
Standard Deviation	0.4%	0.2%
ParaView - Wavelet Volume - 1920 x 1080 (Frames /	**71.70**	**24.40**
Normalized	100%	34.03%
Standard Deviation	0.8%	0.3%
ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	**1147**	**390.361**
Normalized	100%	34.03%
Standard Deviation	0.8%	0.3%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	**36.76**	**37.04**
Normalized	99.24%	100%
Standard Deviation	0.3%	0.1%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	**383.023**	**385.986**
Normalized	99.23%	100%
Standard Deviation	0.3%	0.1%
QuantLib (MFLOPS)	**2803**	**2323**
Normalized	100%	82.86%
Standard Deviation	2.4%	2.2%
WebP Image Encode - Default (Encode Time - sec)	**1.381**	**1.741**
Normalized	100%	79.32%
Standard Deviation	0.7%	0.3%
WebP Image Encode - Q.1.L (Encode Time - sec)	**20.207**	**20.111**
Normalized	99.52%	100%
Standard Deviation	1%	1.2%
WebP Image Encode - Q.1.L.H.C (Encode Time - sec)	**43.230**	**41.982**
Normalized	97.11%	100%
Standard Deviation	0.1%	0.4%
JPEG XL libjxl - PNG - 8 (MP/s)	**0.69**	**0.7**
Normalized	98.57%	100%
Standard Deviation	0%	0%
JPEG XL libjxl - JPEG - 8 (MP/s)	**25.69**	**22.61**
Normalized	100%	88.01%
Standard Deviation	1.1%	0.2%
srsRAN - OFDM_Test (Samples / Second)	**131900000**	**100400000**
Normalized	100%	76.12%
Standard Deviation	1.9%	0.4%
srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)	**273.7**	**316.0**
Normalized	86.61%	100%
Standard Deviation	0.7%	0.1%
srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)	**106.8**	**101.3**
Normalized	100%	94.85%
Standard Deviation	0.1%	0.1%
srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)	**358.0**	**318.4**
Normalized	100%	88.94%
Standard Deviation	0.8%	0.4%
srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)	**155.0**	**125.0**
Normalized	100%	80.65%
Standard Deviation	1.3%	0.2%

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srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)	**307.9**	**344.0**
Normalized	89.51%	100%
Standard Deviation	0.8%	0.2%
srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)	**114.7**	**111.6**
Normalized	100%	97.3%
Standard Deviation	1.3%	0.6%
srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)	**383.9**	**345.5**
Normalized	100%	90%
Standard Deviation	1.1%	0.4%
srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)	**162.2**	**132.2**
Normalized	100%	81.5%
Standard Deviation	1.2%	0.5%
srsRAN - 5.P.T.5.P.S.6.Q (eNb Mb/s)	**98.4**	**101.9**
Normalized	96.57%	100%
Standard Deviation	0.2%	0.7%
srsRAN - 5.P.T.5.P.S.6.Q (UE Mb/s)	**54.9**	**49.6**
Normalized	100%	90.35%
Standard Deviation	0.5%	0.3%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	**4.21**	**4.83**
Normalized	87.16%	100%
Standard Deviation	0.5%	0.5%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	**22.19**	**37.84**
Normalized	58.64%	100%
Standard Deviation	0.9%	3.4%
AOM AV1 - Speed 10 Realtime - Bosphorus 4K (FPS)	**24.70**	**42.67**
Normalized	57.89%	100%
Standard Deviation	0.6%	3.6%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p	**10.17**	**14.34**
Normalized	70.92%	100%
Standard Deviation	0.2%	2.3%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p	**50.60**	**122.28**
Normalized	41.38%	100%
Standard Deviation	0.9%	2.6%
AOM AV1 - Speed 10 Realtime - Bosphorus 1080p	**54.15**	**137.33**
Normalized	39.43%	100%
Standard Deviation	1.3%	1.4%
rav1e - 5 (FPS)	**1.789**	**1.775**
Normalized	100%	99.22%
Standard Deviation	0.5%	2.3%
rav1e - 6 (FPS)	**2.289**	**2.421**
Normalized	94.55%	100%
Standard Deviation	1.1%	2.3%
rav1e - 10 (FPS)	**4.596**	**6.709**
Normalized	68.5%	100%
Standard Deviation	1.2%	2.6%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	**1.369**	**1.167**
Normalized	100%	85.24%
Standard Deviation	1.2%	0.7%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	**16.084**	**14.339**
Normalized	100%	89.15%
Standard Deviation	1.6%	2.4%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	**31.624**	**31.927**
Normalized	99.05%	100%
Standard Deviation	1%	4.1%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	**45.416**	**62.760**

Normalized	72.36%	100%
Standard Deviation	0.8%	5.1%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	**4.820**	**4.220**
Normalized	100%	87.55%
Standard Deviation	0.6%	2.3%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	**57.476**	**58.019**
Normalized	99.06%	100%
Standard Deviation	1%	6.6%
SVT-AV1 - Preset 10 - Bosphorus 1080p (FPS)	**124.051**	**158.836**
Normalized	78.1%	100%
Standard Deviation	0.9%	6.4%
SVT-AV1 - Preset 12 - Bosphorus 1080p (FPS)	**189.123**	**347.651**
Normalized	54.4%	100%
Standard Deviation	1.1%	0.3%
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	**5.32**	**3.76**
Normalized	100%	70.68%
Standard Deviation	1.5%	1.2%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	**66.01**	**67.73**
Normalized	97.46%	100%
Standard Deviation	0.2%	8%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	**124.31**	**174.35**
Normalized	71.3%	100%
Standard Deviation	0.4%	5.5%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	**75.99**	**130.27**
Normalized	58.33%	100%
Standard Deviation	2.4%	4.5%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	**80.76**	**133.06**
Normalized	60.69%	100%
Standard Deviation	0.4%	5.6%
PJSIP - INVITE (Responses/sec)	**3209**	**4264**
Normalized	75.26%	100%
Standard Deviation	0.1%	2.4%
PJSIP - OPTIONS, Stateful (Responses/sec)	**4933**	**4825**
Normalized	100%	97.81%
Standard Deviation	0.3%	1.3%
PJSIP - OPTIONS, Stateless (Responses/sec)	**46322**	**143577**
Normalized	32.26%	100%
Standard Deviation	1.4%	7.1%
libavif avifenc - 6 (sec)	**15.294**	**18.825**
Normalized	100%	81.24%
Standard Deviation	0.5%	3.4%
libavif avifenc - 10 (sec)	**4.123**	**4.180**
Normalized	100%	98.64%
Standard Deviation	0.4%	0.2%
libavif avifenc - 6, Lossless (sec)	**74.604**	**108.967**
Normalized	100%	68.46%
Standard Deviation	1.7%	1.9%
Timed GDB GNU Debugger Compilation - Time To Compile (sec)	**104.388**	**99.133**
Normalized	94.97%	100%
Standard Deviation	0.2%	0.9%
Timed Linux Kernel Compilation - defconfig (sec)	**157.369**	**165.117**
Normalized	100%	95.31%
Standard Deviation	0.6%	0.6%
Timed LLVM Compilation - Ninja (sec)	**1237**	**1162**

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Normalized	93.95%	100%
Standard Deviation	0.2%	0.4%
Timed LLVM Compilation - Unix Makefiles (sec)	**1261**	**1196**
Normalized	94.86%	100%
Standard Deviation	0.7%	1.2%
Timed Wasmer Compilation - Time To Compile (sec)	**110.107**	**100.075**
Normalized	90.89%	100%
Standard Deviation	0.2%	1.3%
Tachyon - Total Time (sec)	**224.7529**	**307.6365**
Normalized	100%	73.06%
Standard Deviation	0.7%	0.5%
Liquid-DSP - 1 - 256 - 57 (samples/s)	**58110667**	**50001333**
Normalized	100%	86.05%
Standard Deviation	0.8%	0%
Liquid-DSP - 2 - 256 - 57 (samples/s)	**117466667**	**94687333**
Normalized	100%	80.61%
Standard Deviation	0.2%	0.1%
Liquid-DSP - 4 - 256 - 57 (samples/s)	**220508000**	**167839167**
Normalized	100%	76.11%
Standard Deviation	5.5%	2.8%
Liquid-DSP - 8 - 256 - 57 (samples/s)	**389966667**	**266446429**
Normalized	100%	68.33%
Standard Deviation	0.5%	3.2%
Liquid-DSP - 16 - 256 - 57 (samples/s)	**405953333**	**283901429**
Normalized	100%	69.93%
Standard Deviation	0.4%	3.6%
TensorFlow Lite - SqueezeNet (us)	**240932**	**346317**
Normalized	100%	69.57%
Standard Deviation	1.1%	2.2%
TensorFlow Lite - Inception V4 (us)	**3566037**	**5085817**
Normalized	100%	70.12%
Standard Deviation	1.3%	0.9%
TensorFlow Lite - NASNet Mobile (us)	**212330**	**290825**
Normalized	100%	73.01%
Standard Deviation	0.2%	2.2%
TensorFlow Lite - Mobilenet Float (us)	**166359**	**232437**
Normalized	100%	71.57%
Standard Deviation	0.3%	2.4%
TensorFlow Lite - Mobilenet Quant (us)	**170578**	**232762**
Normalized	100%	73.28%
Standard Deviation	0.6%	2.3%
TensorFlow Lite - I.R.V (us)	**3282220**	**4594567**
Normalized	100%	71.44%
Standard Deviation	0.7%	0.7%
Basis Universal - UASTC Level 3 (sec)	**77.439**	**109.350**
Normalized	100%	70.82%
Standard Deviation	0.1%	0.9%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	**77.200**	**64.845**
Normalized	84%	100%
Standard Deviation	0.5%	0.3%
Darktable - Boat - CPU-only (sec)	**7.398**	**6.845**
Normalized	92.53%	100%
Standard Deviation	0.4%	6.4%
Darktable - Masskrug - CPU-only (sec)	**8.359**	**5.602**
Normalized	67.02%	100%

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Standard Deviation	0.4%	2.5%
Darktable - Server Rack - CPU-only (sec)	**0.518**	**0.276**
Normalized	53.28%	100%
Standard Deviation	1%	0.9%
Darktable - Server Room - CPU-only (sec)	**6.824**	**4.051**
Normalized	59.36%	100%
Standard Deviation	0.4%	0.1%
GIMP - resize (sec)	**11.093**	**8.607**
Normalized	77.59%	100%
Standard Deviation	2.4%	2.3%
GIMP - rotate (sec)	**13.962**	**13.096**
Normalized	93.8%	100%
Standard Deviation	2.6%	0.1%
GIMP - auto-levels (sec)	**15.405**	**13.099**
Normalized	85.03%	100%
Standard Deviation	0.8%	0.5%
GIMP - unsharp-mask (sec)	**19.329**	**15.594**
Normalized	80.68%	100%
Standard Deviation	0.7%	0.1%
RawTherapee - T.B.T (sec)	**99.225**	**80.755**
Normalized	81.39%	100%
Standard Deviation	0.4%	1.3%
Google Draco - Lion (ms)	**6024**	**5625**
Normalized	93.38%	100%
Standard Deviation	0.7%	0.1%
Google Draco - Church Facade (ms)	**8962**	**8485**
Normalized	94.68%	100%
Standard Deviation	0.5%	0.2%
Mobile Neural Network - mobilenetV3 (ms)	**2.911**	**2.688**
Normalized	92.34%	100%
Standard Deviation	3.4%	2.4%
Mobile Neural Network - squeezenetv1.1 (ms)	**5.507**	**5.581**
Normalized	100%	98.67%
Standard Deviation	2.5%	1.4%
Mobile Neural Network - resnet-v2-50 (ms)	**41.728**	**39.977**
Normalized	95.8%	100%
Standard Deviation	2.1%	3.9%
Mobile Neural Network - SqueezeNetV1.0 (ms)	**10.513**	**8.568**
Normalized	81.5%	100%
Standard Deviation	3%	0.8%
Mobile Neural Network - MobileNetV2_224 (ms)	**5.521**	**4.520**
Normalized	81.87%	100%
Standard Deviation	1.5%	0.9%
Mobile Neural Network - mobilenet-v1-1.0 (ms)	**4.636**	**4.009**
Normalized	86.48%	100%
Standard Deviation	2%	1.8%
Mobile Neural Network - inception-v3 (ms)	**54.930**	**57.771**
Normalized	100%	95.08%
Standard Deviation	1.9%	0.8%
TNN - CPU - DenseNet (ms)	**3731**	**4335**
Normalized	100%	86.09%
Standard Deviation	1%	0.2%
TNN - CPU - MobileNet v2 (ms)	**288.264**	**378.636**
Normalized	100%	76.13%
Standard Deviation	0.2%	0.3%

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TNN - CPU - SqueezeNet v2 (ms)	**73.948**	**86.118**
Normalized	100%	85.87%
Standard Deviation	1.1%	0.1%
TNN - CPU - SqueezeNet v1.1 (ms)	**248.771**	**358.061**
Normalized	100%	69.48%
Standard Deviation	0.1%	0%
Blender - BMW27 - CPU-Only (sec)	**206.43**	**295.36**
Normalized	100%	69.89%
Standard Deviation	2.5%	1.1%
PyBench - T.F.A.T.T (Milliseconds)	**1037**	**1104**
Normalized	100%	93.93%
Standard Deviation	2.4%	0.2%
PyPerformance - go (Milliseconds)	**238**	**265**
Normalized	100%	89.81%
Standard Deviation	0.5%	0.2%
PyPerformance - 2to3 (Milliseconds)	**352**	**357**
Normalized	100%	98.6%
Standard Deviation	0.2%	0.2%
PyPerformance - chaos (Milliseconds)	**104**	**112**
Normalized	100%	92.86%
Standard Deviation	0%	0%
PyPerformance - float (Milliseconds)	**123**	**120**
Normalized	97.56%	100%
Standard Deviation	2.4%	0%
PyPerformance - nbody (Milliseconds)	**117**	**135**
Normalized	100%	86.67%
Standard Deviation	0.5%	0%
PyPerformance - pathlib (Milliseconds)	**16.8**	**19.1**
Normalized	100%	87.96%
Standard Deviation	0%	0.3%
PyPerformance - raytrace (Milliseconds)	**460**	**497**
Normalized	100%	92.56%
Standard Deviation	0.8%	0.4%
PyPerformance - json_loads (Milliseconds)	**23.9**	**25.8**
Normalized	100%	92.64%
Standard Deviation	0.2%	0%
PyPerformance - crypto_pyaes (Milliseconds)	**105**	**111**
Normalized	100%	94.59%
Standard Deviation	0.6%	0%
PyPerformance - regex_compile (Milliseconds)	**156**	**188**
Normalized	100%	82.98%
Standard Deviation	0.4%	0.3%
PyPerformance - python_startup (Milliseconds)	**20.0**	**8.83**
Normalized	44.15%	100%
Standard Deviation	2.1%	0.3%
PyPerformance - django_template (Milliseconds)	**41.8**	**53.1**
Normalized	100%	78.72%
Standard Deviation	0.1%	0.4%
PyPerformance - pickle_pure_python (Milliseconds)	**411**	**463**
Normalized	100%	88.77%
Standard Deviation	0.3%	0.1%
nginx - 1 (Reqs/sec)	**45351**	**61363**
Normalized	73.91%	100%
Standard Deviation	0.4%	0.4%
nginx - 20 (Reqs/sec)	**333060**	**293610**

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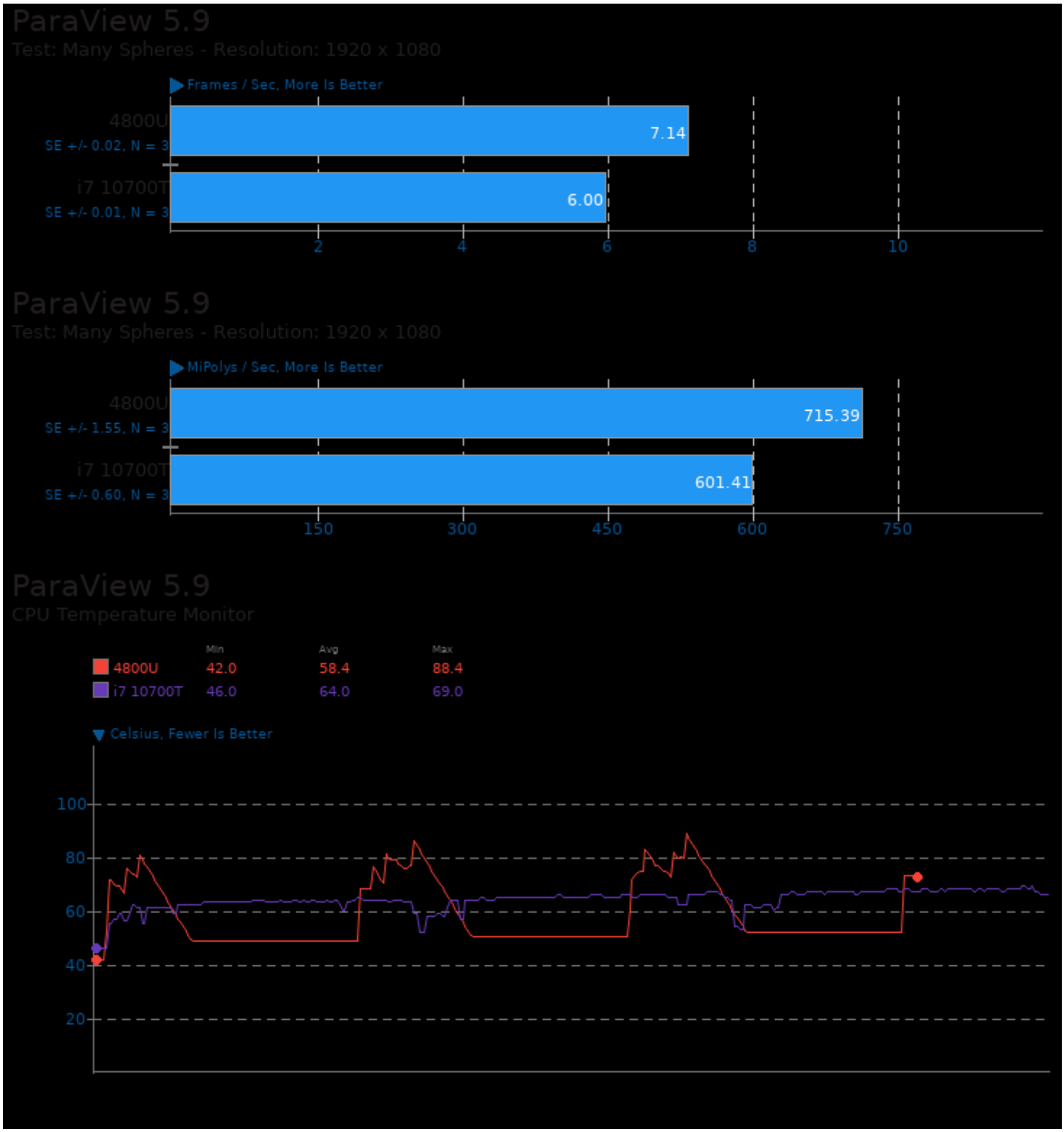
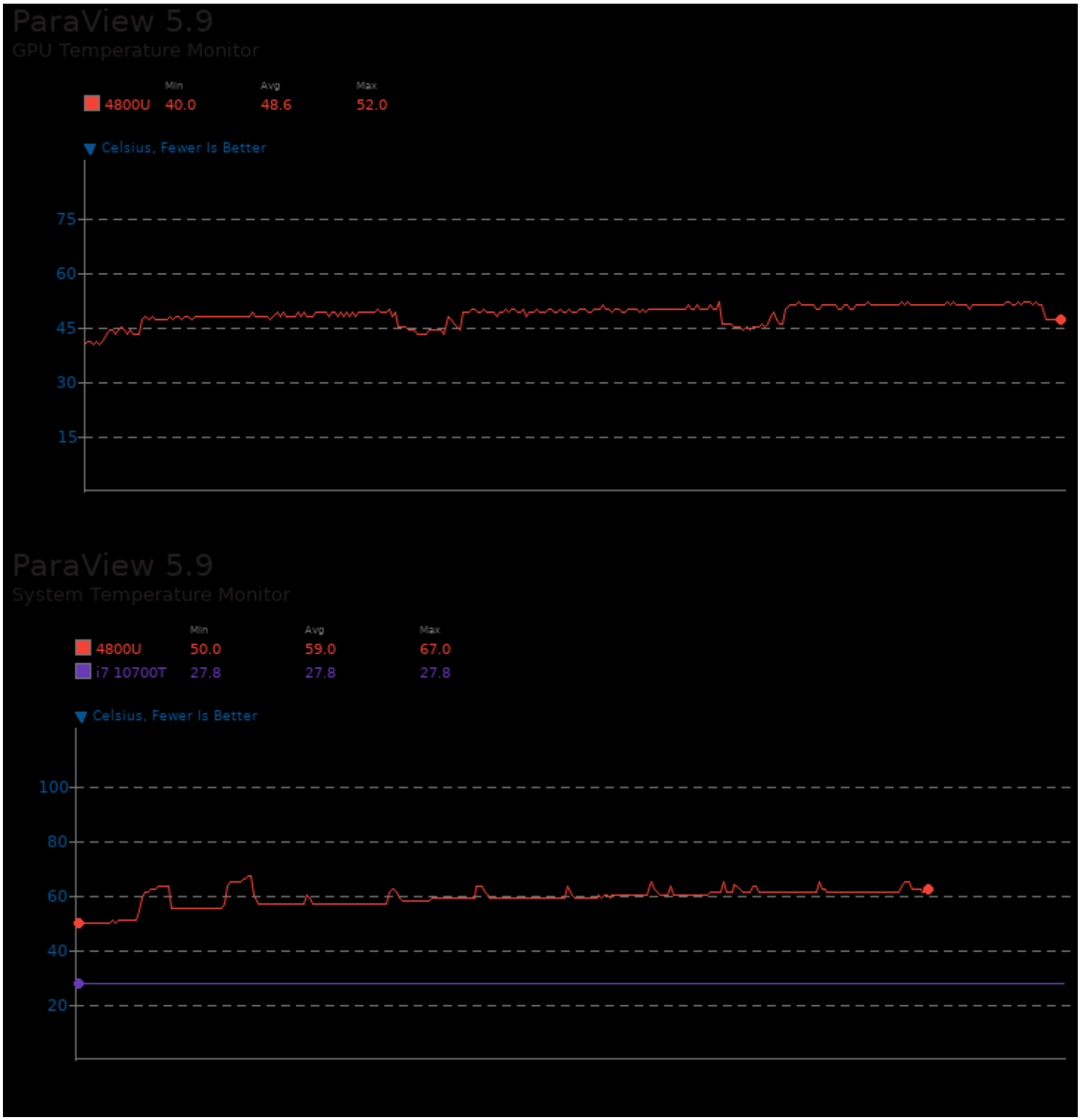
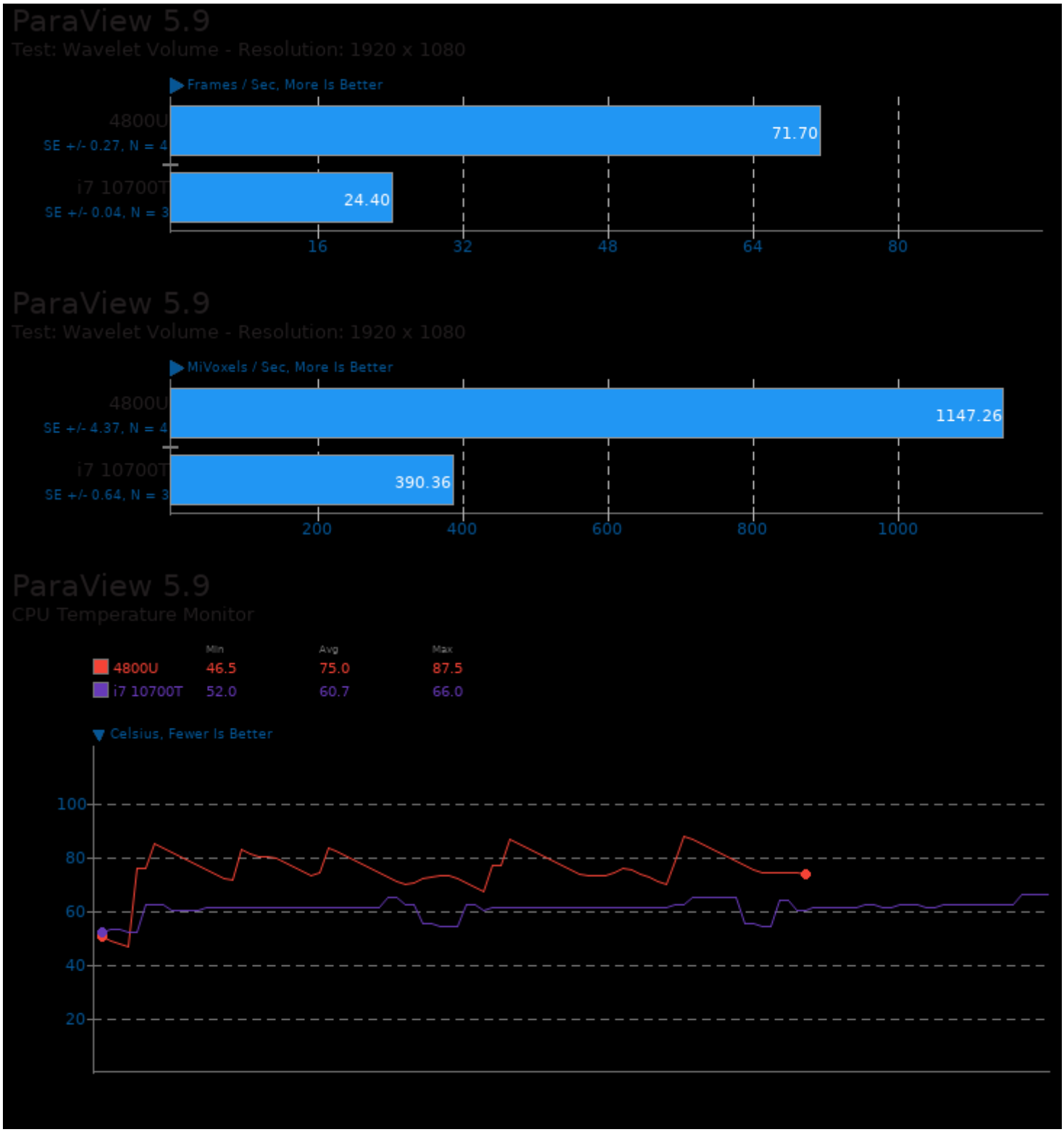
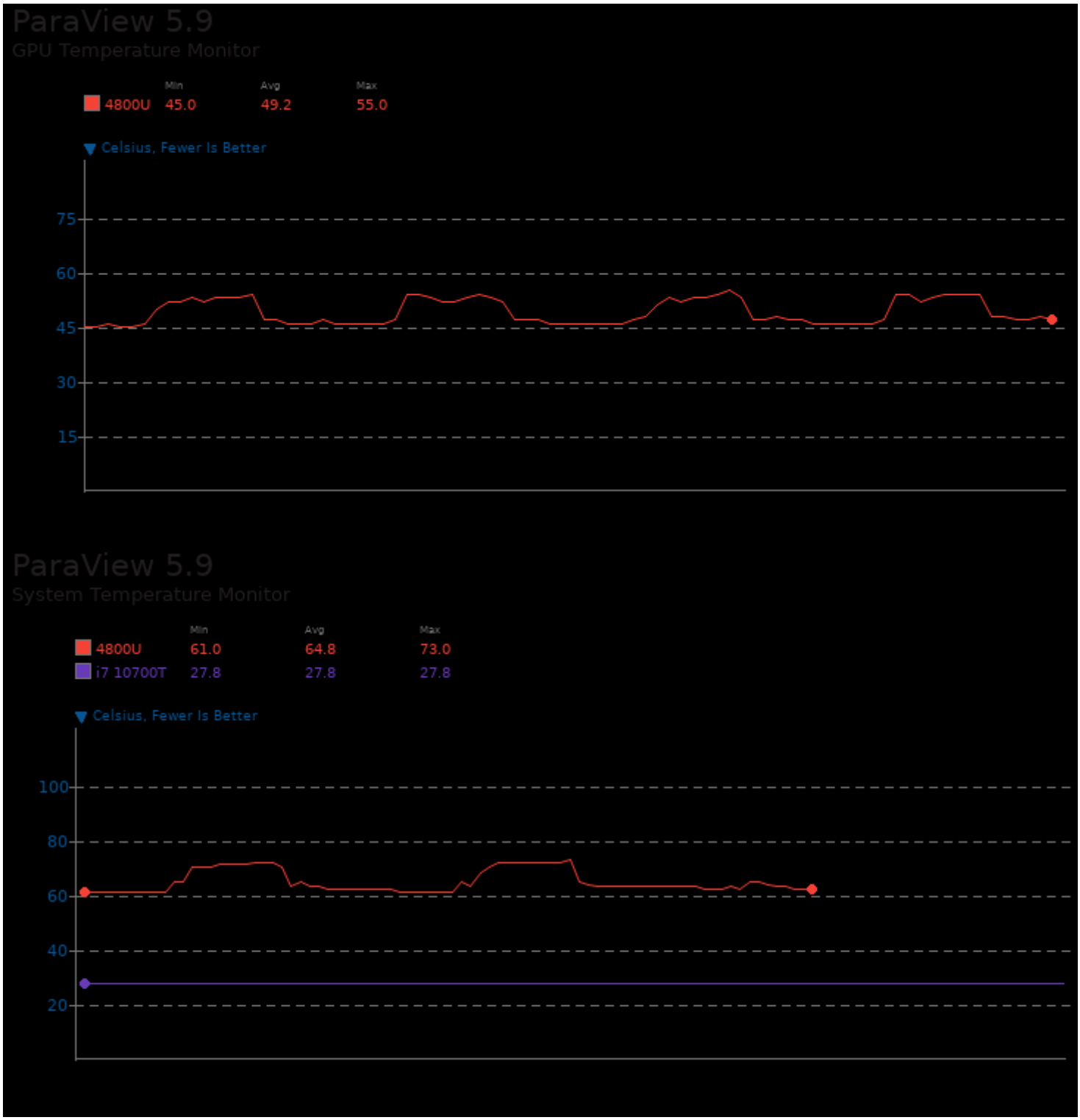
Normalized	100%	88.16%
Standard Deviation	1.1%	1.9%
nginx - 100 (Reqs/sec)	**321211**	**289575**
Normalized	100%	90.15%
Standard Deviation	1.1%	2.1%
nginx - 200 (Reqs/sec)	**311372**	**288147**
Normalized	100%	92.54%
Standard Deviation	0.7%	1.9%
ONNX Runtime - yolov4 - CPU (Inferences/min)	**156**	**306**
Normalized	50.98%	100%
Standard Deviation	0.6%	1.2%
ONNX Runtime - fcn-resnet101-11 - CPU (Inferences/min)	**32**	**50**
Normalized	64%	100%
Standard Deviation	0%	1.2%
ONNX Runtime - shufflenet-v2-10 - CPU	**17220**	**19319**
Normalized	89.14%	100%
Standard Deviation	0.3%	7.3%
ONNX Runtime - super-resolution-10 - CPU (Inferences/min)	**2484**	**2099**
Normalized	100%	84.5%
Standard Deviation	0.3%	1.5%
Apache HTTP Server - 1 (Reqs/sec)	**6372**	**11182**
Normalized	56.98%	100%
Standard Deviation	3.2%	3.6%
Apache HTTP Server - 20 (Reqs/sec)	**21876**	**36638**
Normalized	59.71%	100%
Standard Deviation	0.1%	1.4%
Apache HTTP Server - 100 (Reqs/sec)	**18156**	**55751**
Normalized	32.57%	100%
Standard Deviation	0.1%	1.5%
Apache HTTP Server - 200 (Reqs/sec)	**18866**	**55717**
Normalized	33.86%	100%
Standard Deviation	1.3%	0.2%
PHPBench - P.B.S (Score)	**713002**	**715818**
Normalized	99.61%	100%
Standard Deviation	1.7%	0.1%
Selenium - Kraken - Google Chrome (ms)	**728.4**	**816.5**
Normalized	100%	89.21%
Standard Deviation	0.5%	0.7%
Selenium - StyleBench - Google Chrome (Runs /	**39.0**	**33.20**
Normalized	100%	85.13%
Standard Deviation	0.3%	1.1%
Selenium - Jetstream 2 - Google Chrome (Score)	**129.021**	**141.016**
Normalized	91.49%	100%
Standard Deviation	0.7%	1.3%
Selenium - PSPDFKit WASM - Google Chrome (Score)	**3743**	**3260**
Normalized	87.1%	100%
Standard Deviation		0.6%
Selenium - W.i - Google Chrome (ms)	**27.51**	**36.14**
Normalized	100%	76.12%
Standard Deviation	0.4%	0.3%
Selenium - W.c - Google Chrome (ms)	**284.44**	**438.17**
Normalized	100%	64.92%
Standard Deviation	1%	0.2%

PyHPC Benchmarks - CPU - JAX - 4194304 - Equation of State (sec)	**0.081**	**0.039**
Normalized	48.15%	100%
Standard Deviation	0%	1.5%
PyHPC Benchmarks - CPU - JAX - 4194304 - Isoneutral Mixing (sec)	**1.636**	**0.898**
Normalized	54.89%	100%
Standard Deviation	0.2%	0.3%
PyHPC Benchmarks - CPU - Numba - 4194304 - Equation of State (sec)	**0.257**	**0.282**
Normalized	100%	91.13%
Standard Deviation	0.2%	0.7%
PyHPC Benchmarks - CPU - Numba - 4194304 - Isoneutral Mixing (sec)	**1.279**	**1.650**
Normalized	100%	77.52%
Standard Deviation	0.1%	0.2%
PyHPC Benchmarks - CPU - Numpy - 4194304 - Equation of State (sec)	**2.914**	**1.525**
Normalized	52.33%	100%
Standard Deviation	0.1%	0.2%
PyHPC Benchmarks - CPU - Numpy - 4194304 - Isoneutral Mixing (sec)	**4.355**	**2.812**
Normalized	64.57%	100%
Standard Deviation	0%	0.3%
PyHPC Benchmarks - CPU - Aesara - 4194304 - Equation of State (sec)	**0.323**	**0.382**
Normalized	100%	84.55%
Standard Deviation	0.8%	0.4%
PyHPC Benchmarks - CPU - Aesara - 4194304 - Isoneutral Mixing (sec)	**2.382**	**1.982**
Normalized	83.21%	100%
Standard Deviation	0.2%	0%
PyHPC Benchmarks - CPU - PyTorch - 4194304 - Equation of State (sec)	**0.096**	**0.110**
Normalized	100%	87.27%
Standard Deviation	3.5%	0.5%
PyHPC Benchmarks - CPU - PyTorch - 4194304 - Isoneutral Mixing (sec)	**2.856**	**1.889**
Normalized	66.14%	100%
Standard Deviation	1%	0.5%
PyHPC Benchmarks - CPU - TensorFlow - 4194304 - Equation of State (sec)	**0.151**	**0.161**
Normalized	100%	93.79%
Standard Deviation	0.4%	0.6%

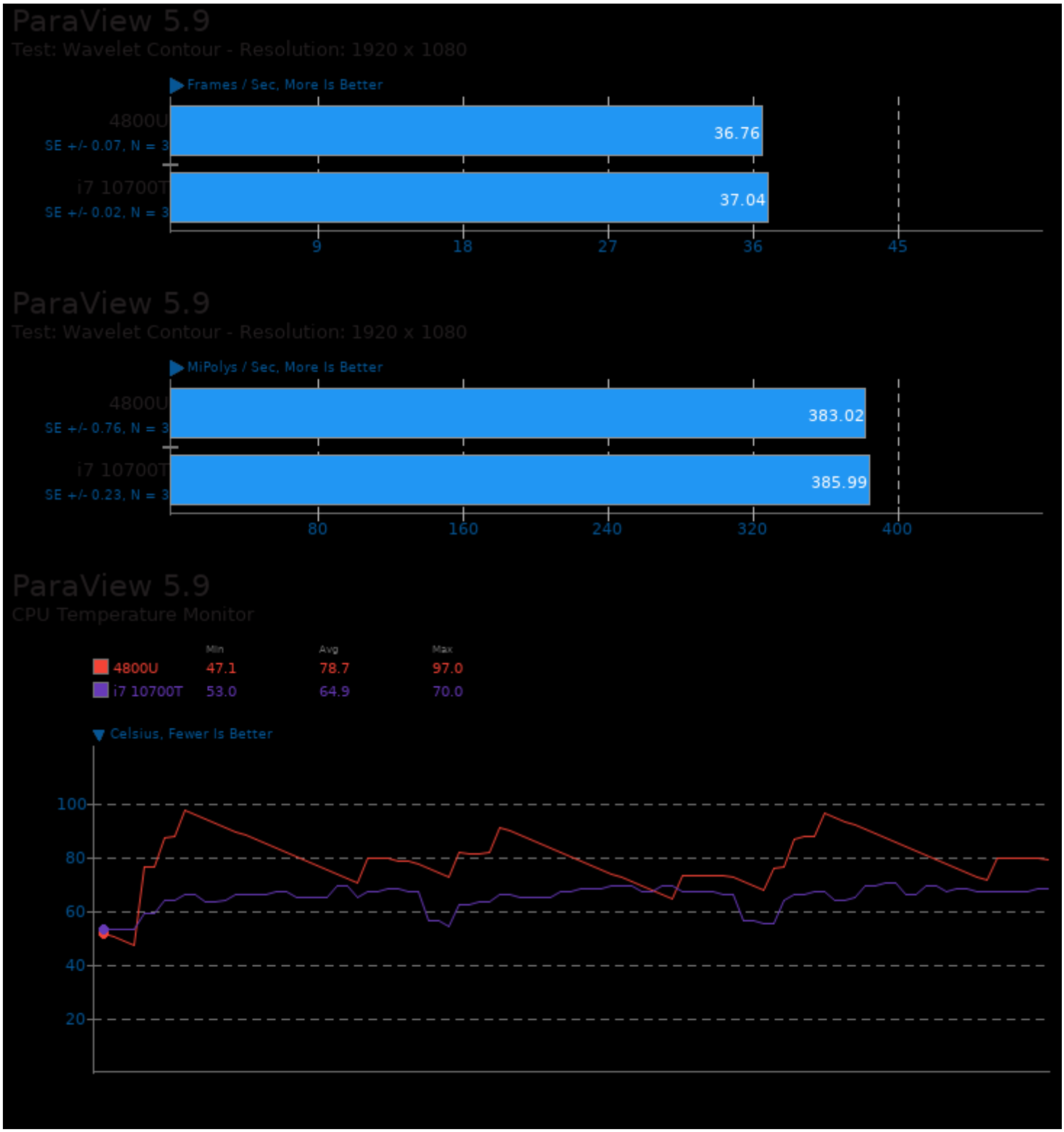

ParaView 5.9
Test: Many Spheres - Resolution: 1920 x 1080
Frames / Sec, More Is Better
4800U
SE +/- 0.02, N = 3
7.14
i7 10700T
SE +/- 0.01, N = 3
6.00
2
4
6
8
10
ParaView 5.9
Test: Many Spheres - Resolution: 1920 x 1080
MiPolys / Sec, More Is Better
4800U
SE +/- 1.55, N = 3
715.39
i7 10700T
SE +/- 0.60, N = 3
601.41
150
300
450
600
750
ParaView 5.9
CPU Temperature Monitor
Min
Avg
Max
4800U
42.0
58.4
88.4
i7 10700T
46.0
64.0
69.0
Celsius, Fewer Is Better
100
80
60
40
20


ParaView 5.9
GPU Temperature Monitor
Min
Avg
Max
4800U 40.0 48.6 52.0
Celsius, Fewer Is Better
75
60
45
30
15
ParaView 5.9
System Temperature Monitor
Min
Avg
Max
4800U 50.0 59.0 67.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

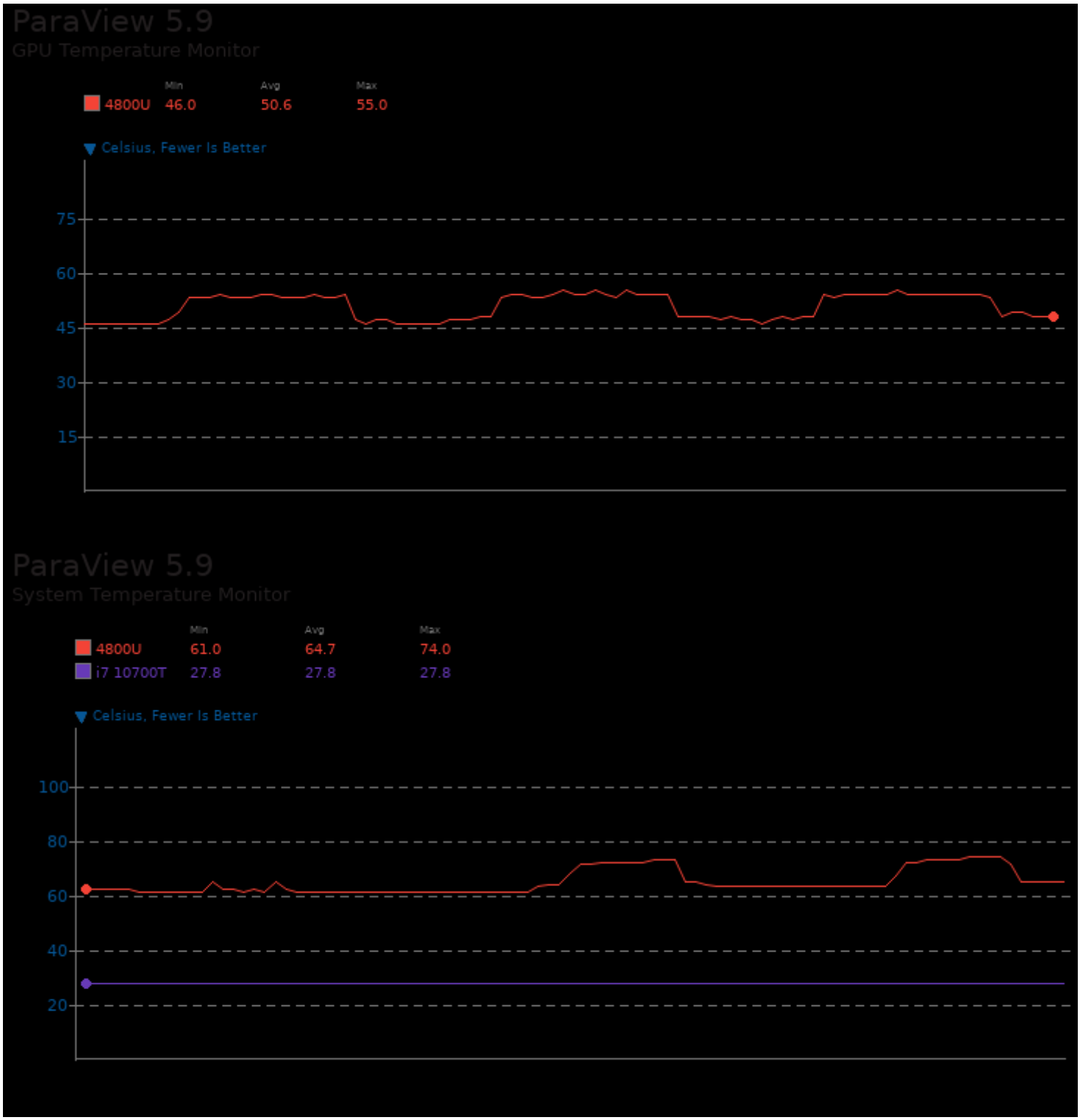

ParaView 5.9
Test: Wavelet Volume - Resolution: 1920 x 1080
Frames / Sec, More Is Better
4800U
SE +/- 0.27, N = 4
71.70
i7 10700T
SE +/- 0.04, N = 3
24.40
16
32
48
64
80
ParaView 5.9
Test: Wavelet Volume - Resolution: 1920 x 1080
MiVoxels / Sec, More Is Better
4800U
SE +/- 4.37, N = 4
1147.26
i7 10700T
SE +/- 0.64, N = 3
390.36
200
400
600
800
1000
ParaView 5.9
CPU Temperature Monitor
Min
Avg
Max
4800U
46.5
75.0
87.5
i7 10700T
52.0
60.7
66.0
Celsius, Fewer Is Better
100
80
60
40
20


ParaView 5.9
GPU Temperature Monitor
Min
Avg
Max
4800U 45.0 49.2 55.0
Celsius, Fewer Is Better
75
60
45
30
15
ParaView 5.9
System Temperature Monitor
Min
Avg
Max
4800U 61.0 64.8 73.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

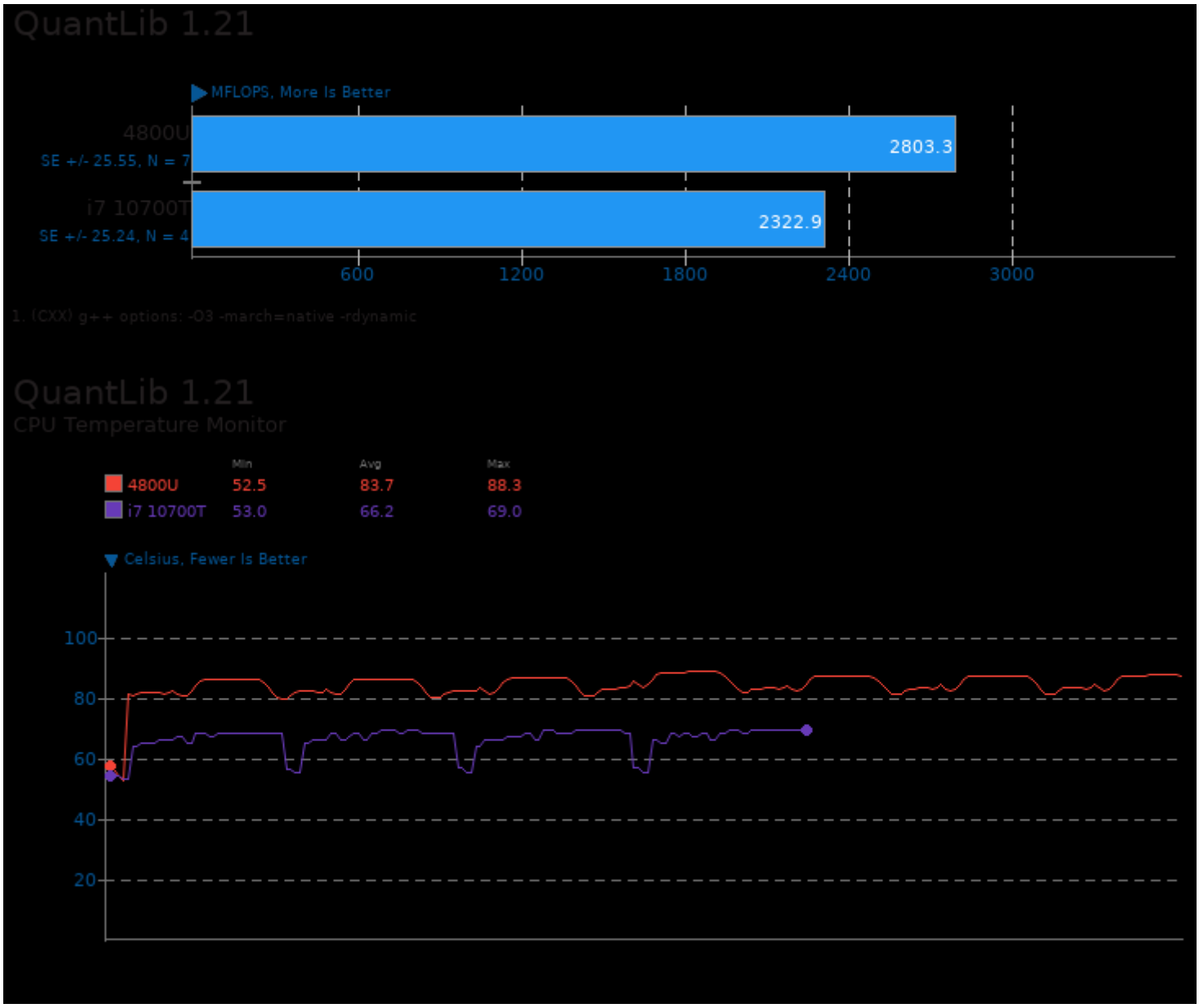
OnLogic Ryzen 4800U



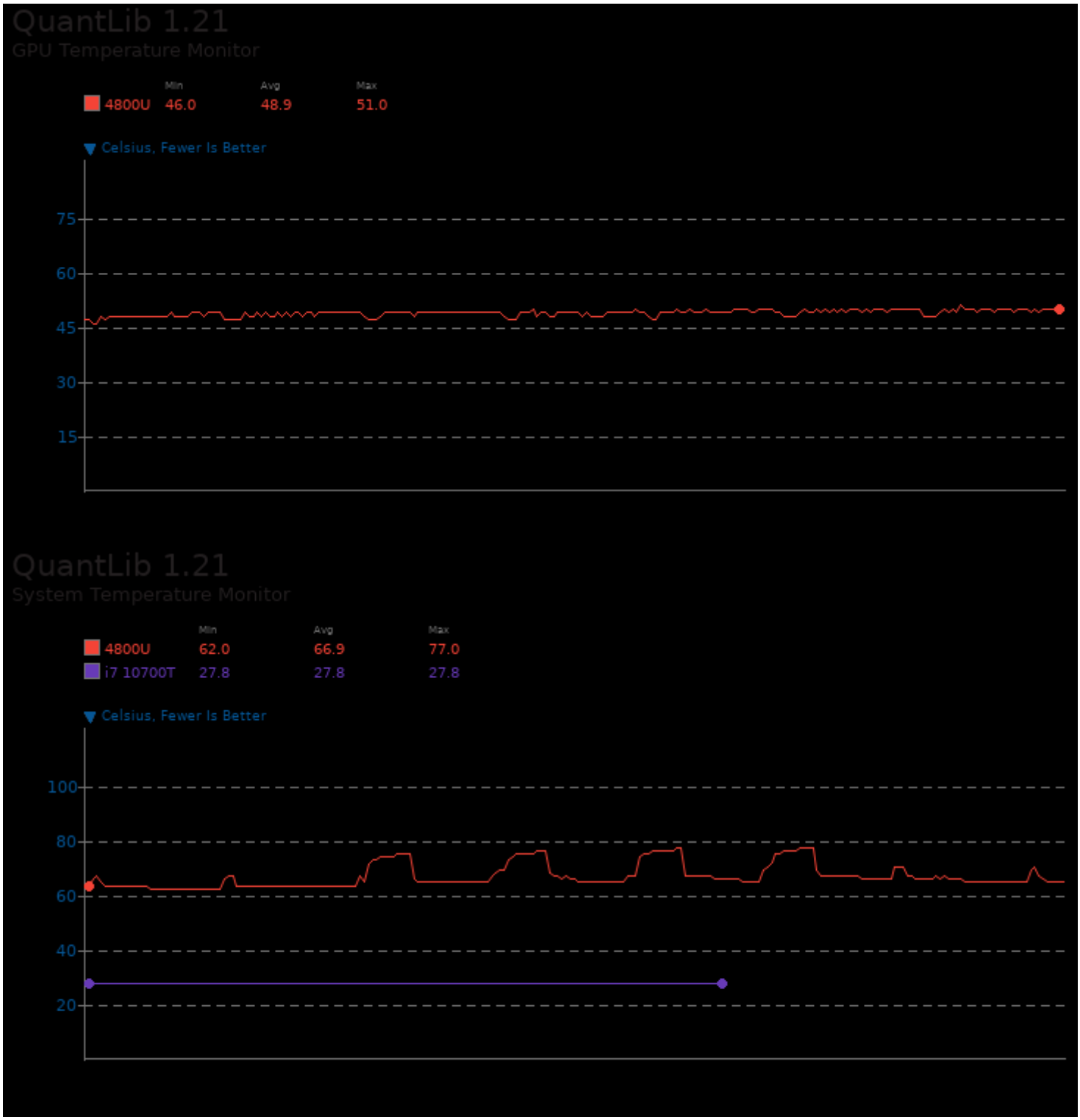
OnLogic Ryzen 4800U

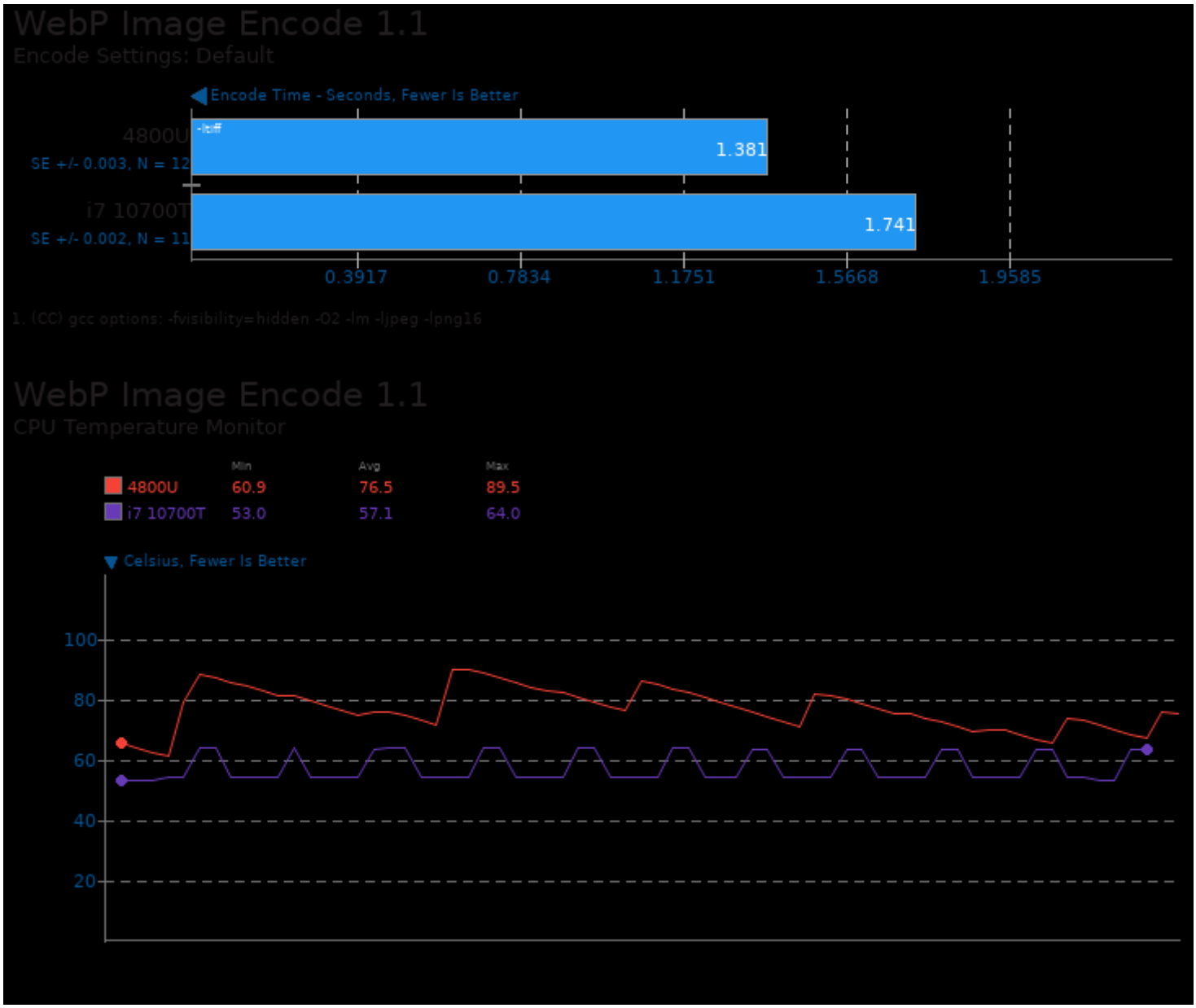


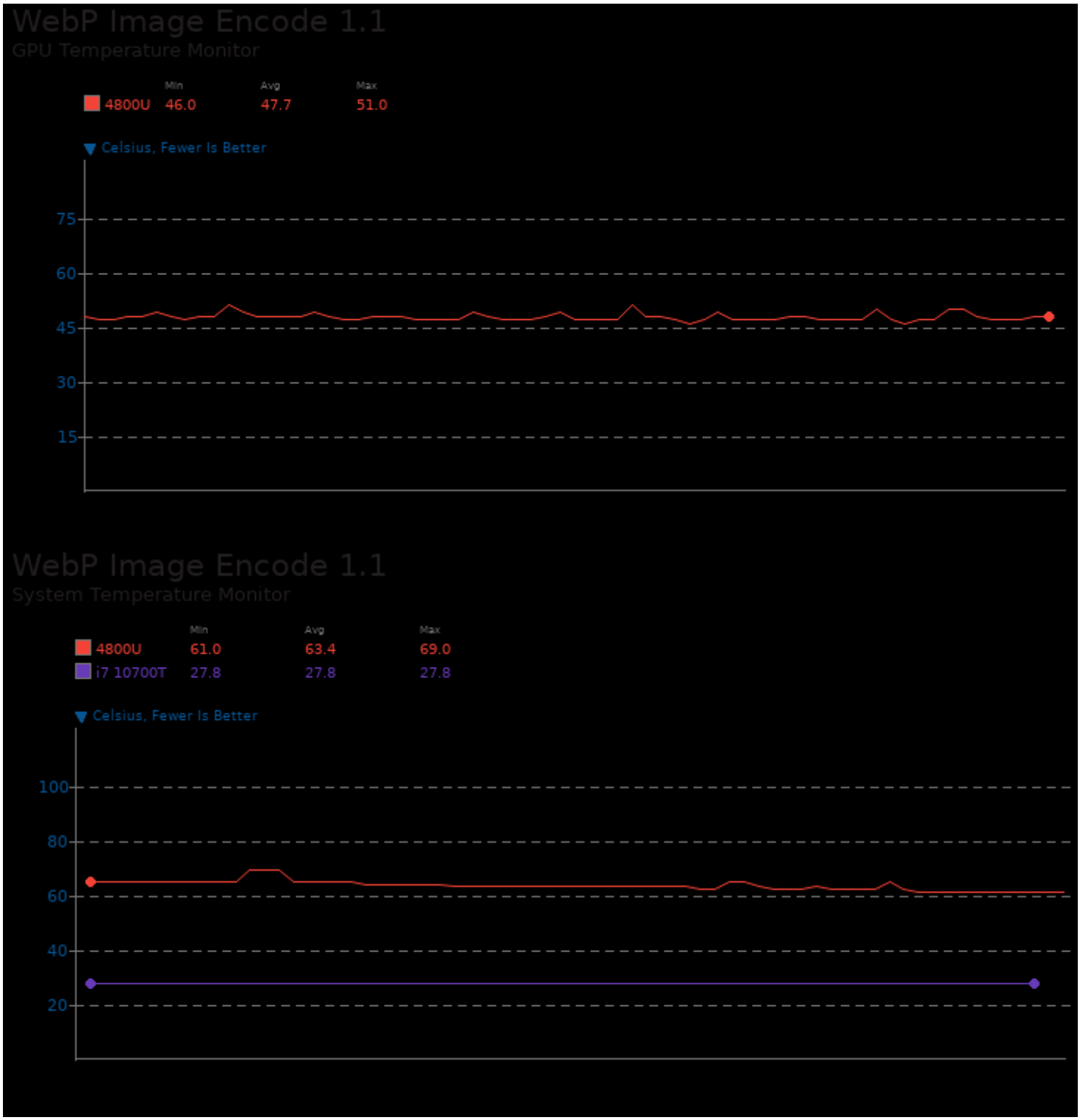
OnLogic Ryzen 4800U

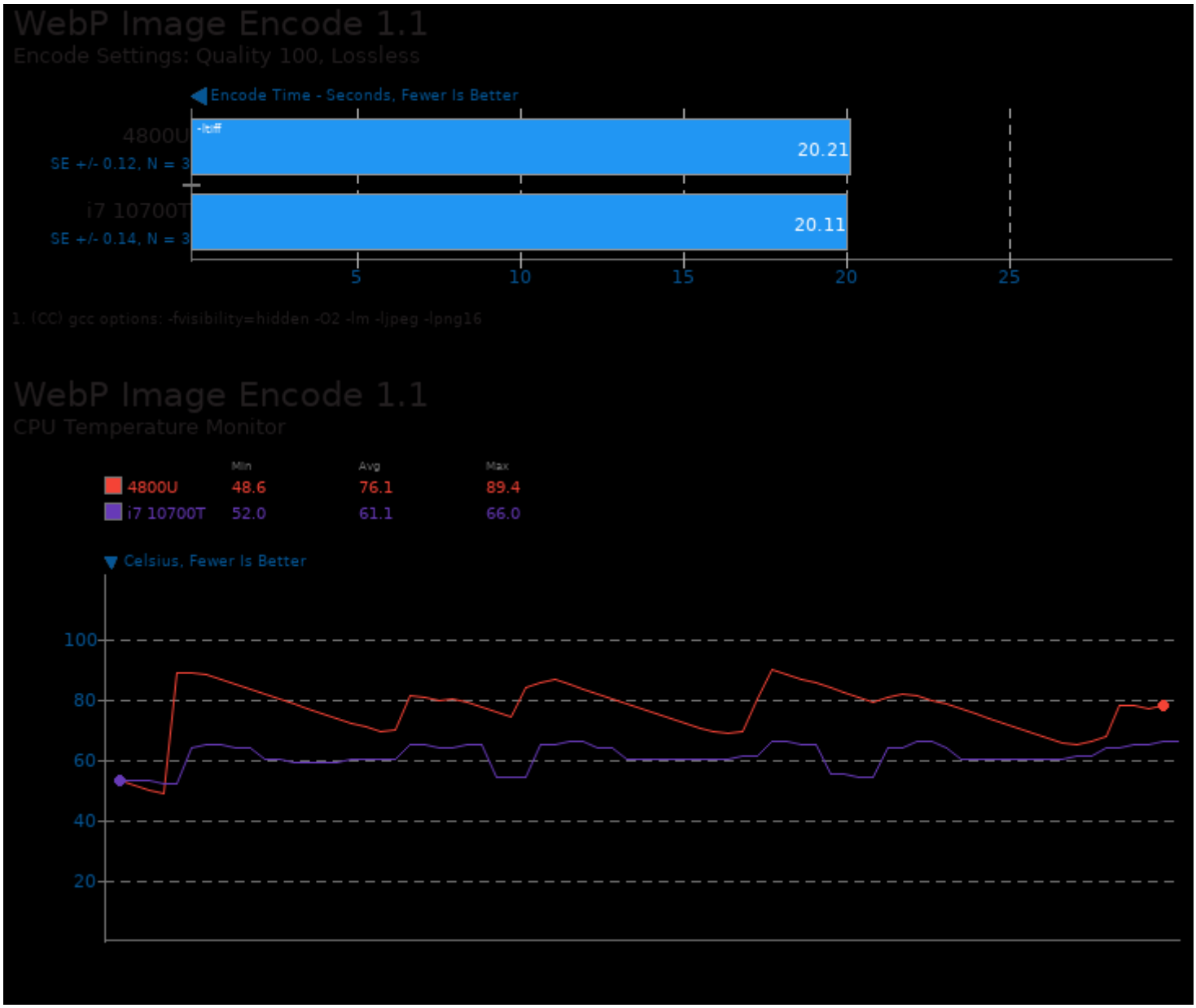


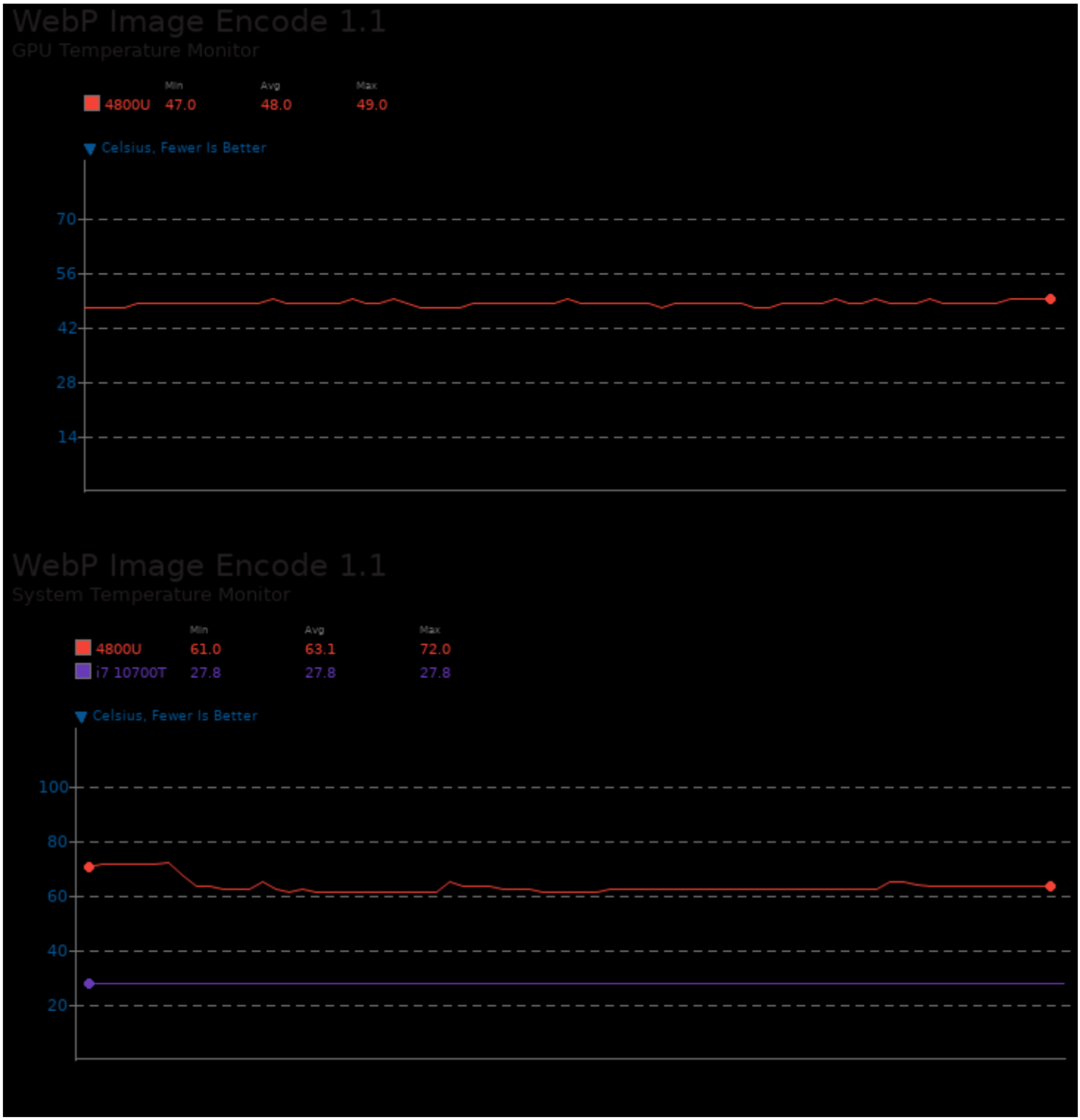
OnLogic Ryzen 4800U



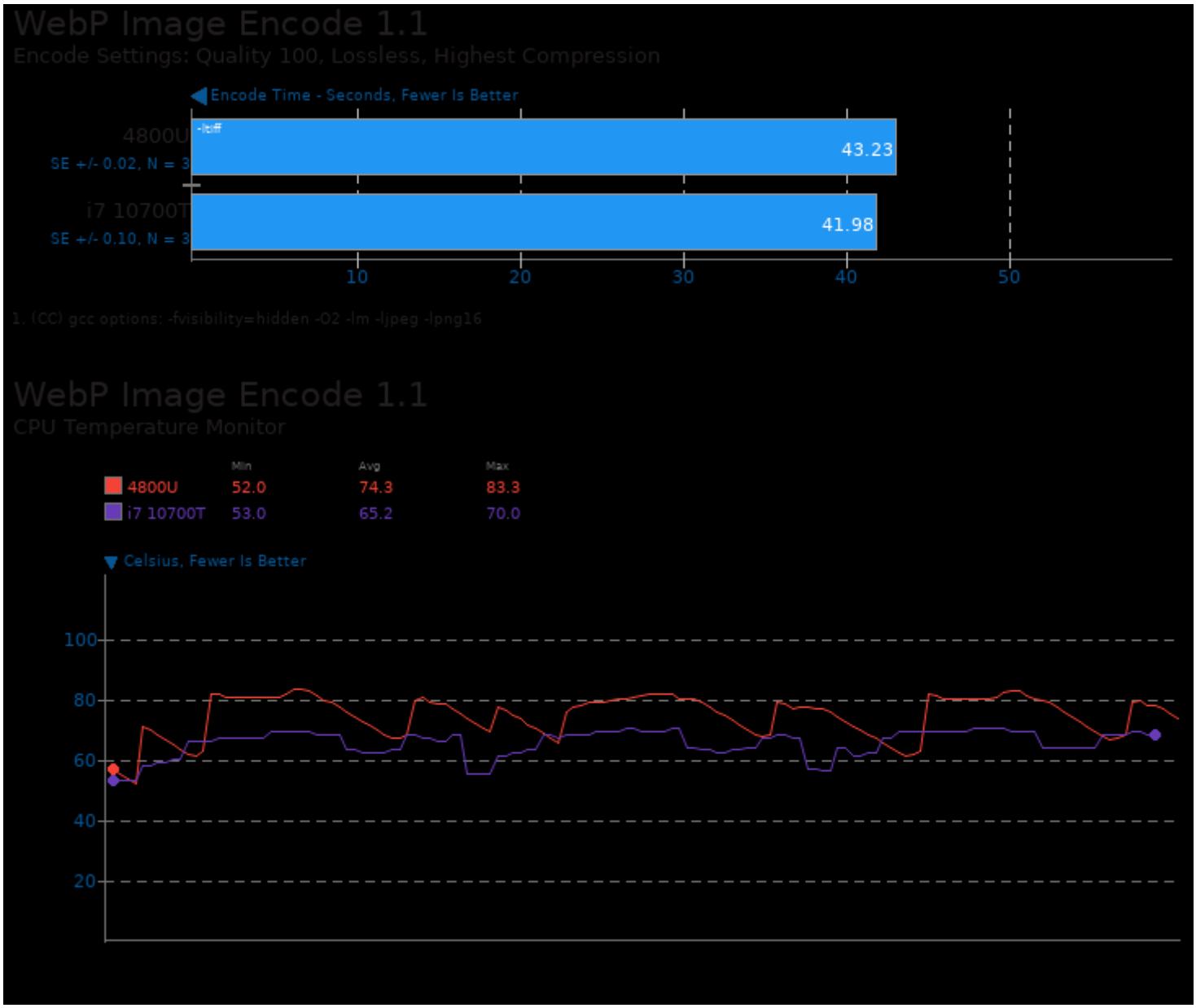

WebP Image Encode 1.1
Encode Settings: Default
Encode Time - Seconds, Fewer Is Better
4800U
-lpng16
1.381
SE +/- 0.003, N = 12
i7 10700T
1.741
SE +/- 0.002, N = 11
0.3917
0.7834
1.1751
1.5668
1.9585
1. (CC) gcc options: -fvisibility=hidden -O2 -lm -ljpeg -lpng16
WebP Image Encode 1.1
CPU Temperature Monitor
Min
Avg
Max
4800U
60.9
76.5
89.5
i7 10700T
53.0
57.1
64.0
Celsius, Fewer Is Better
100
80
60
40
20

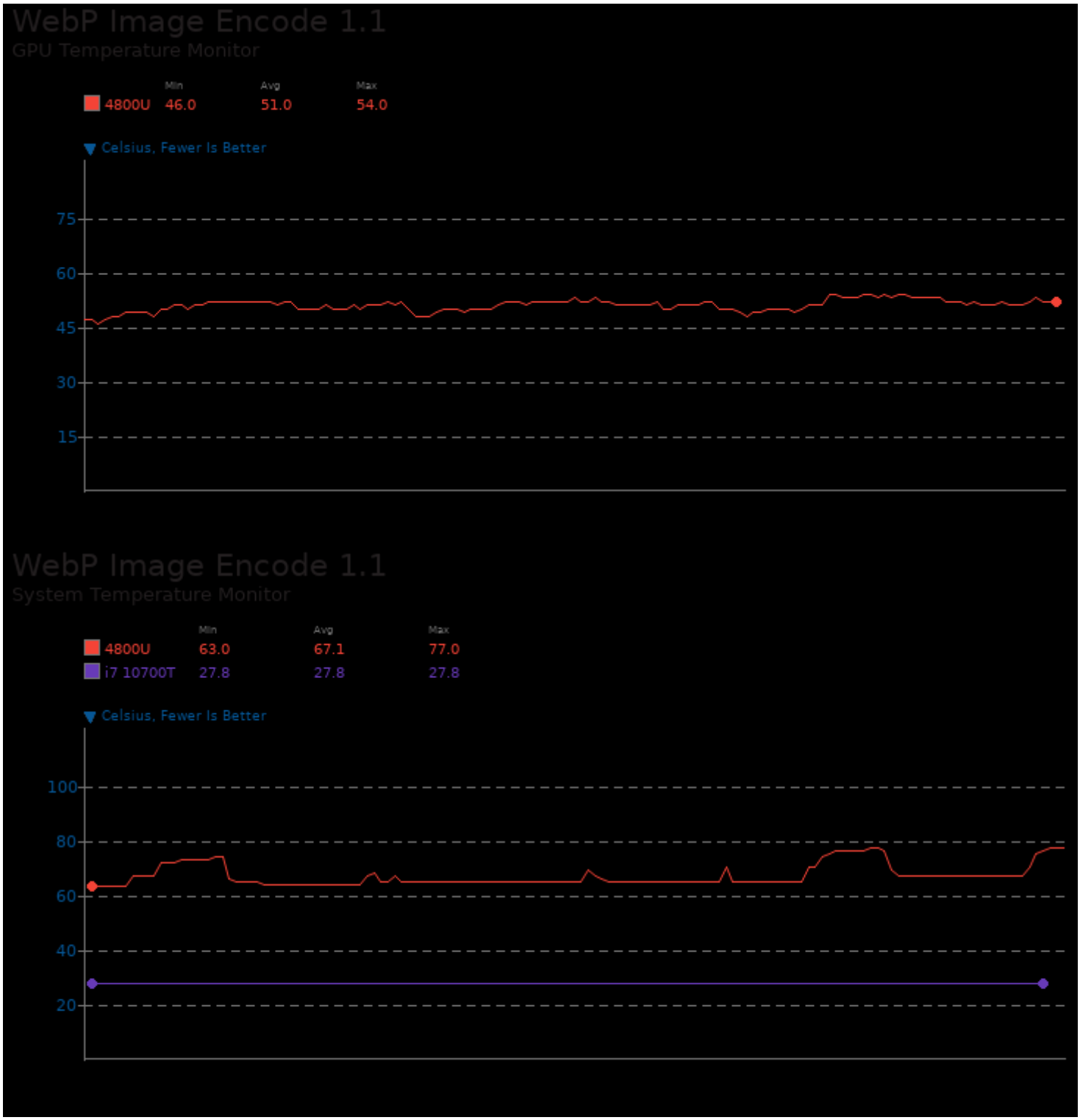

WebP Image Encode 1.1
GPU Temperature Monitor
Min
Avg
Max
4800U 46.0 47.7 51.0
Celsius, Fewer Is Better
75
60
45
30
15
WebP Image Encode 1.1
System Temperature Monitor
Min
Avg
Max
4800U 61.0 63.4 69.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

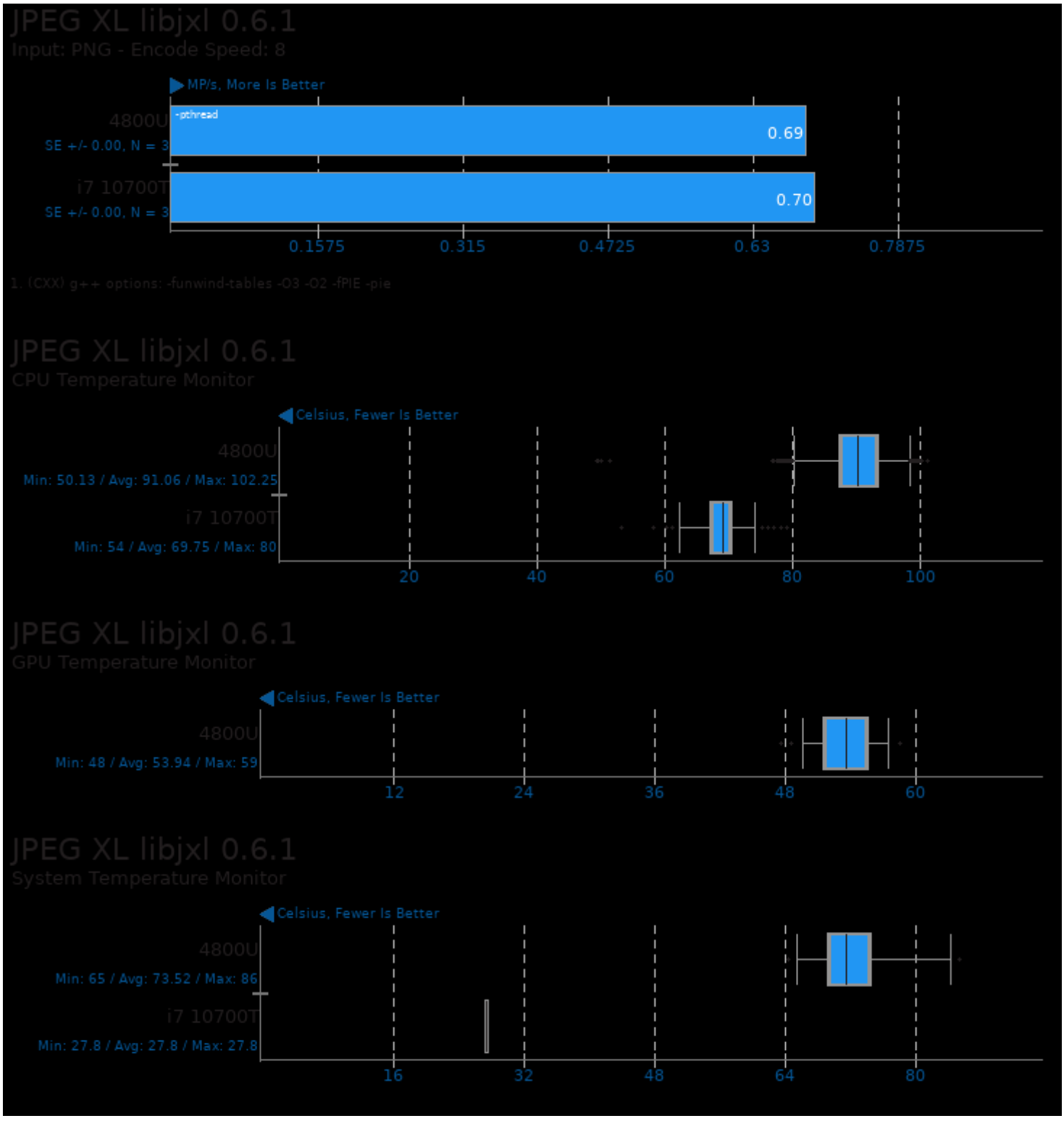

WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless
Encode Time - Seconds, Fewer Is Better
4800U
-lpthread
SE +/- 0.12, N = 3
20.21
i7 10700T
SE +/- 0.14, N = 3
20.11
5
10
15
20
25
1. (CC) gcc options: -fvisibility=hidden -O2 -lm -ljpeg -lpng16
WebP Image Encode 1.1
CPU Temperature Monitor
Min
Avg
Max
4800U
48.6
76.1
89.4
i7 10700T
52.0
61.1
66.0
Celsius, Fewer Is Better
100
80
60
40
20

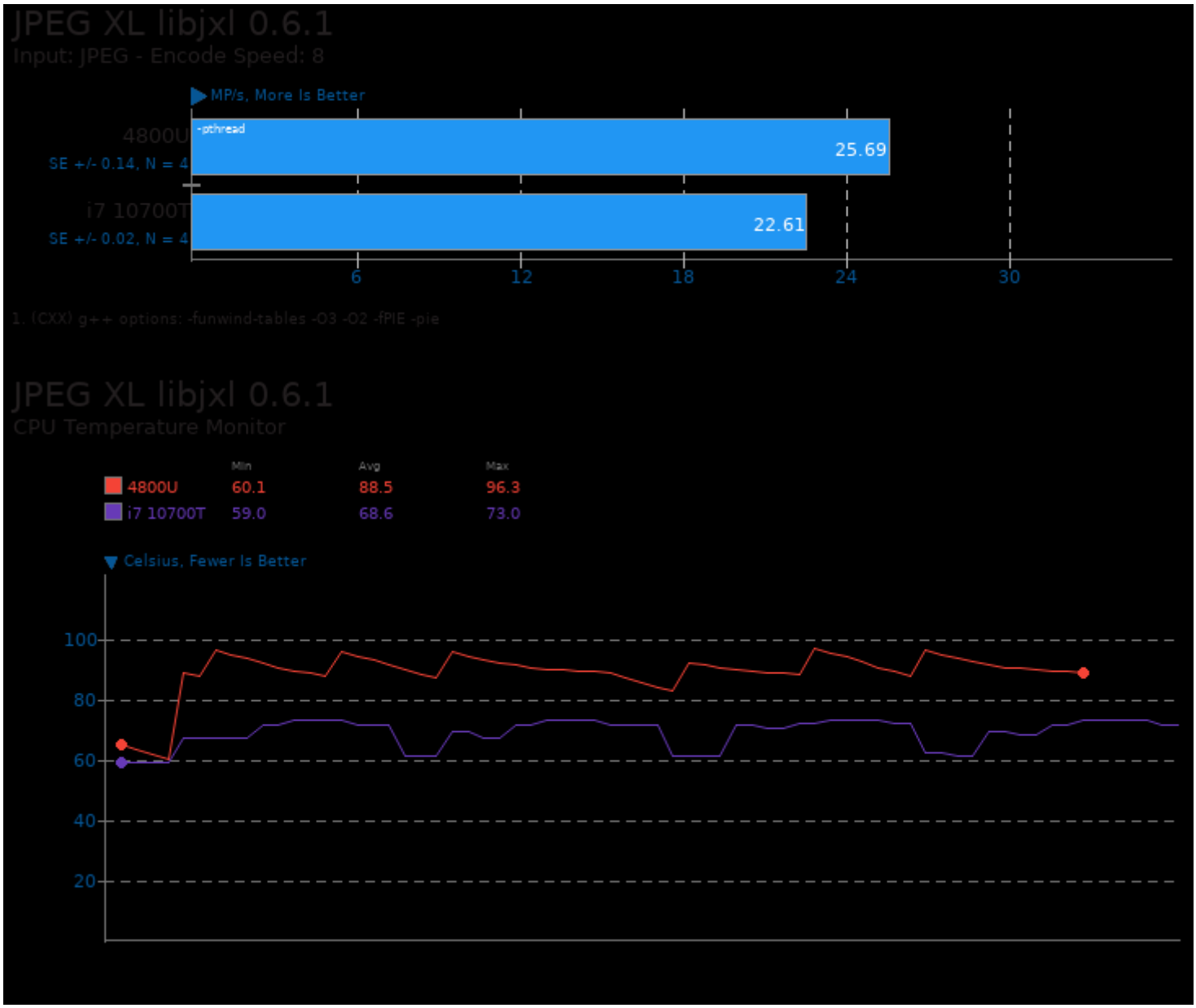

WebP Image Encode 1.1
GPU Temperature Monitor
Min
Avg
Max
4800U 47.0 48.0 49.0
Celsius, Fewer Is Better
70
56
42
28
14
WebP Image Encode 1.1
System Temperature Monitor
Min
Avg
Max
4800U 61.0 63.1 72.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

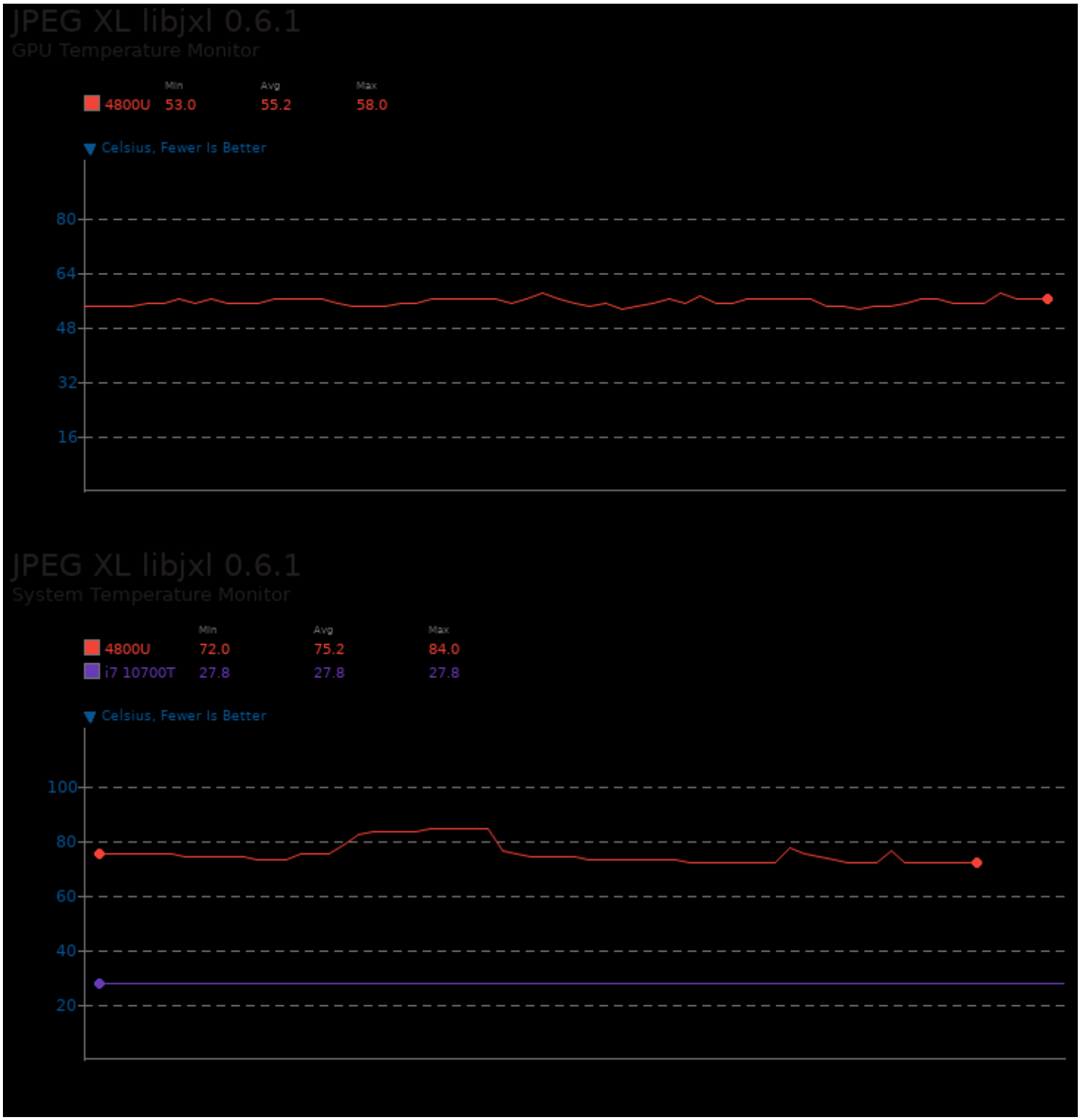
OnLogic Ryzen 4800U

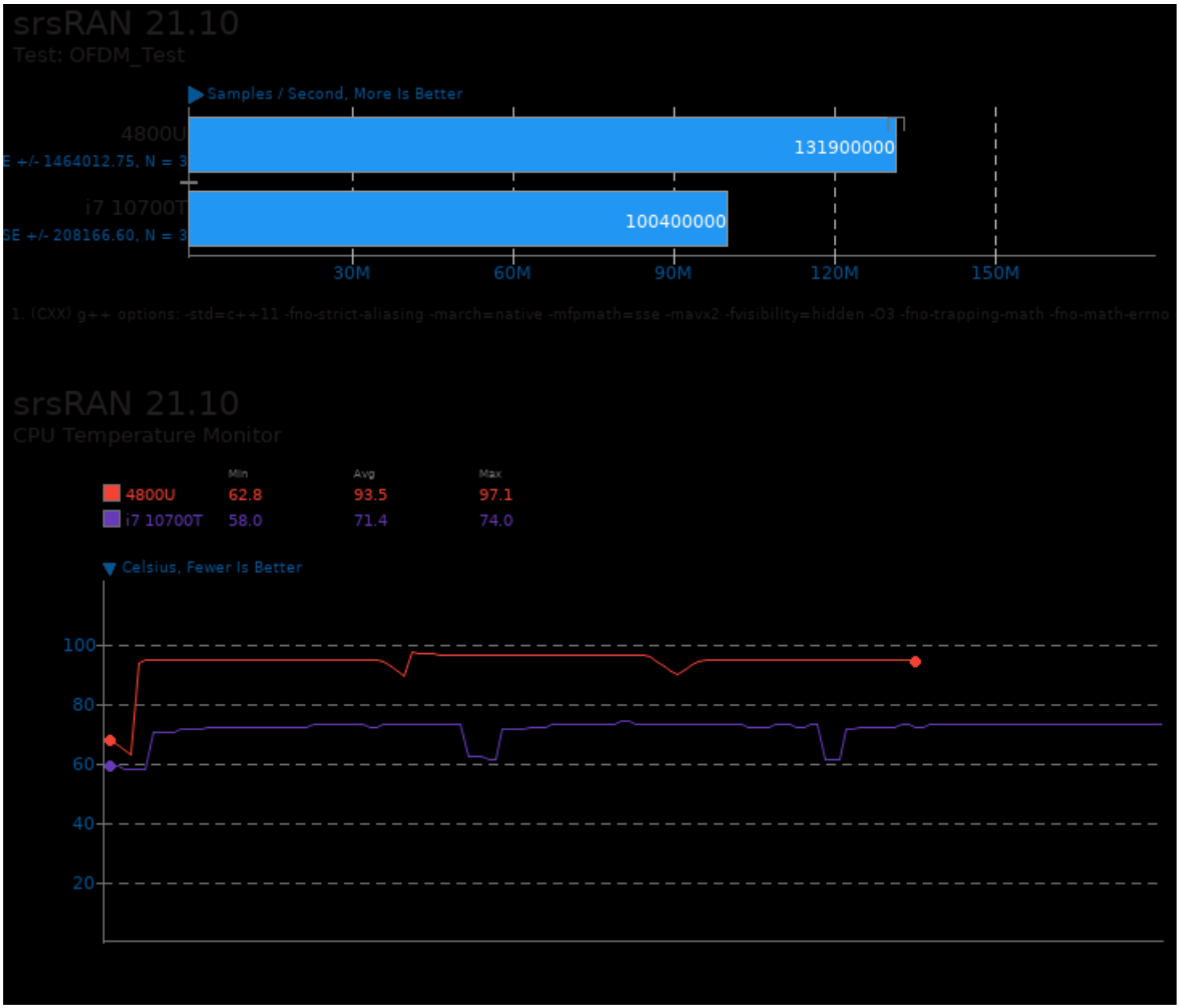


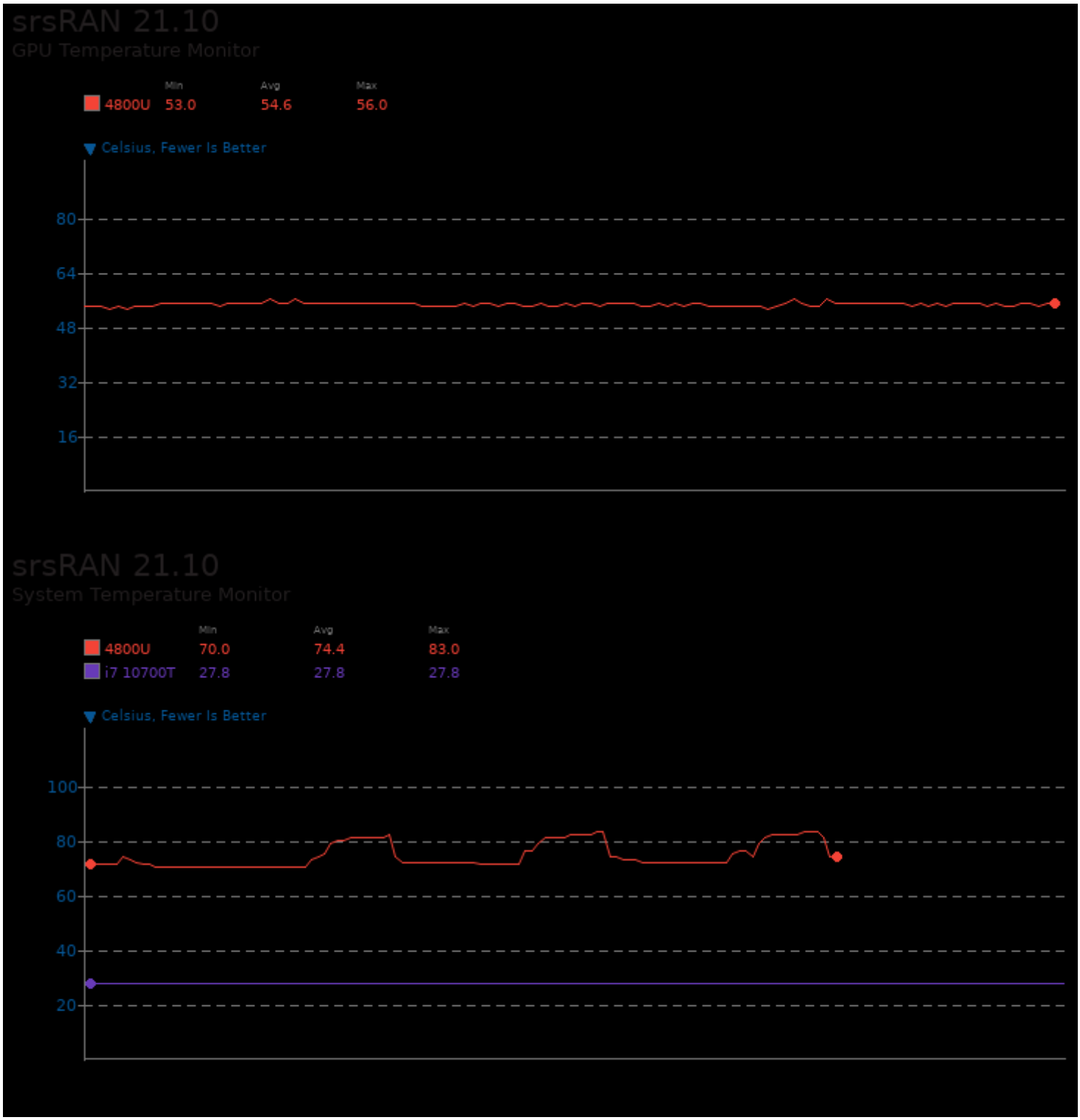

WebP Image Encode 1.1
GPU Temperature Monitor
Min
Avg
Max
4800U 46.0 51.0 54.0
Celsius, Fewer Is Better
75
60
45
30
15
WebP Image Encode 1.1
System Temperature Monitor
Min
Avg
Max
4800U 63.0 67.1 77.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


JPEG XL libjxl 0.6.1
Input: PNG - Encode Speed: 8
MP/s, More Is Better
4800U
-pthread
SE +/- 0.00, N = 3
0.69
i7 10700T
SE +/- 0.00, N = 3
0.70
0.1575
0.315
0.4725
0.63
0.7875
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie
JPEG XL libjxl 0.6.1
CPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 50.13 / Avg: 91.06 / Max: 102.25
i7 10700T
Min: 54 / Avg: 69.75 / Max: 80
20
40
60
80
100
JPEG XL libjxl 0.6.1
GPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 48 / Avg: 53.94 / Max: 59
12
24
36
48
60
JPEG XL libjxl 0.6.1
System Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 65 / Avg: 73.52 / Max: 86
i7 10700T
Min: 27.8 / Avg: 27.8 / Max: 27.8
16
32
48
64
80

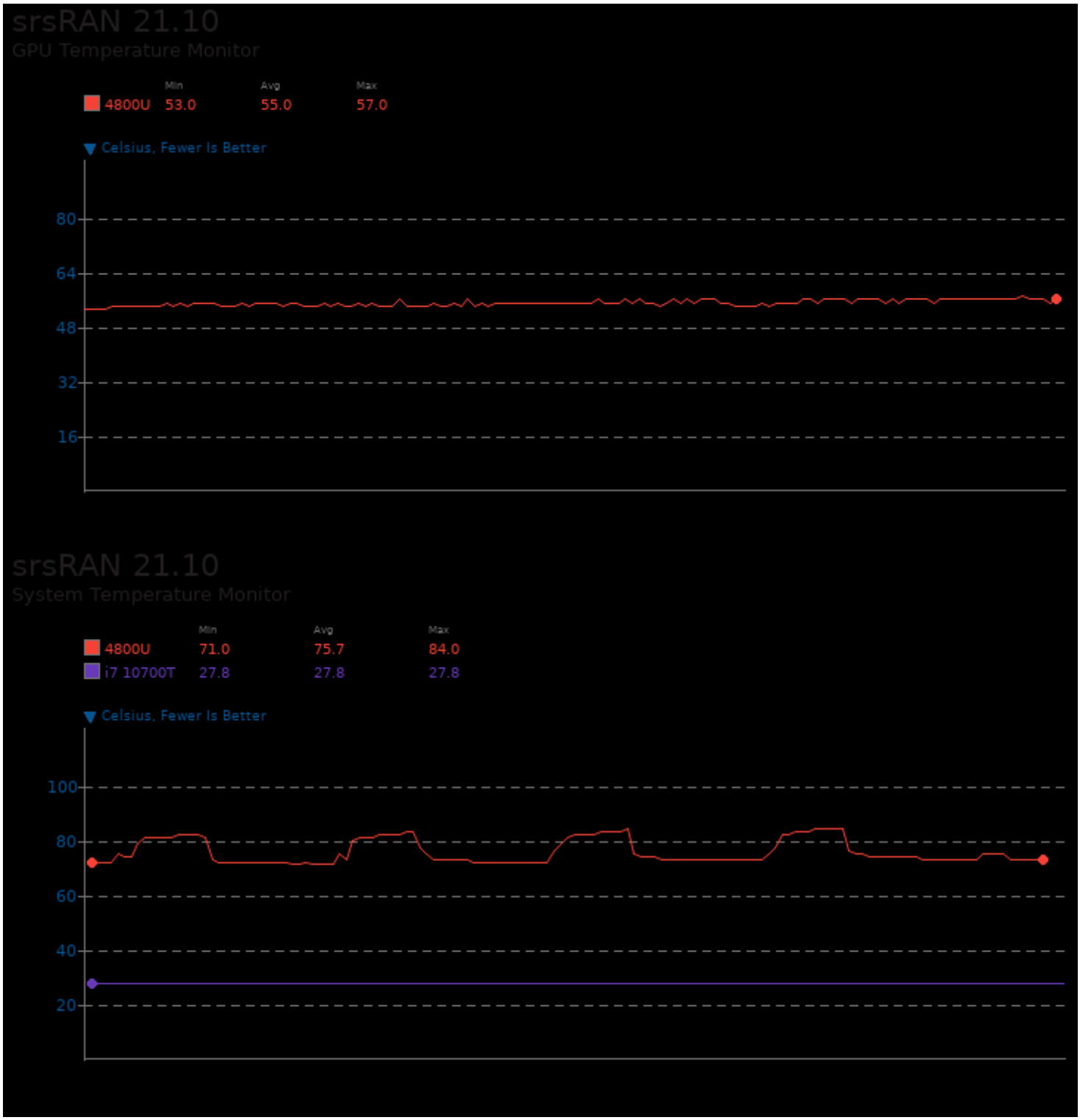

JPEG XL libjxl 0.6.1
Input: JPEG - Encode Speed: 8
MP/s, More Is Better
4800U
-pthread
25.69
SE +/- 0.14, N = 4
i7 10700T
22.61
SE +/- 0.02, N = 4
6
12
18
24
30
1. (CXX) g++ options: -funwind-tables -O3 -O2 -fPIE -pie
JPEG XL libjxl 0.6.1
CPU Temperature Monitor
Min
Avg
Max
4800U
60.1
88.5
96.3
i7 10700T
59.0
68.6
73.0
Celsius, Fewer Is Better
100
80
60
40
20

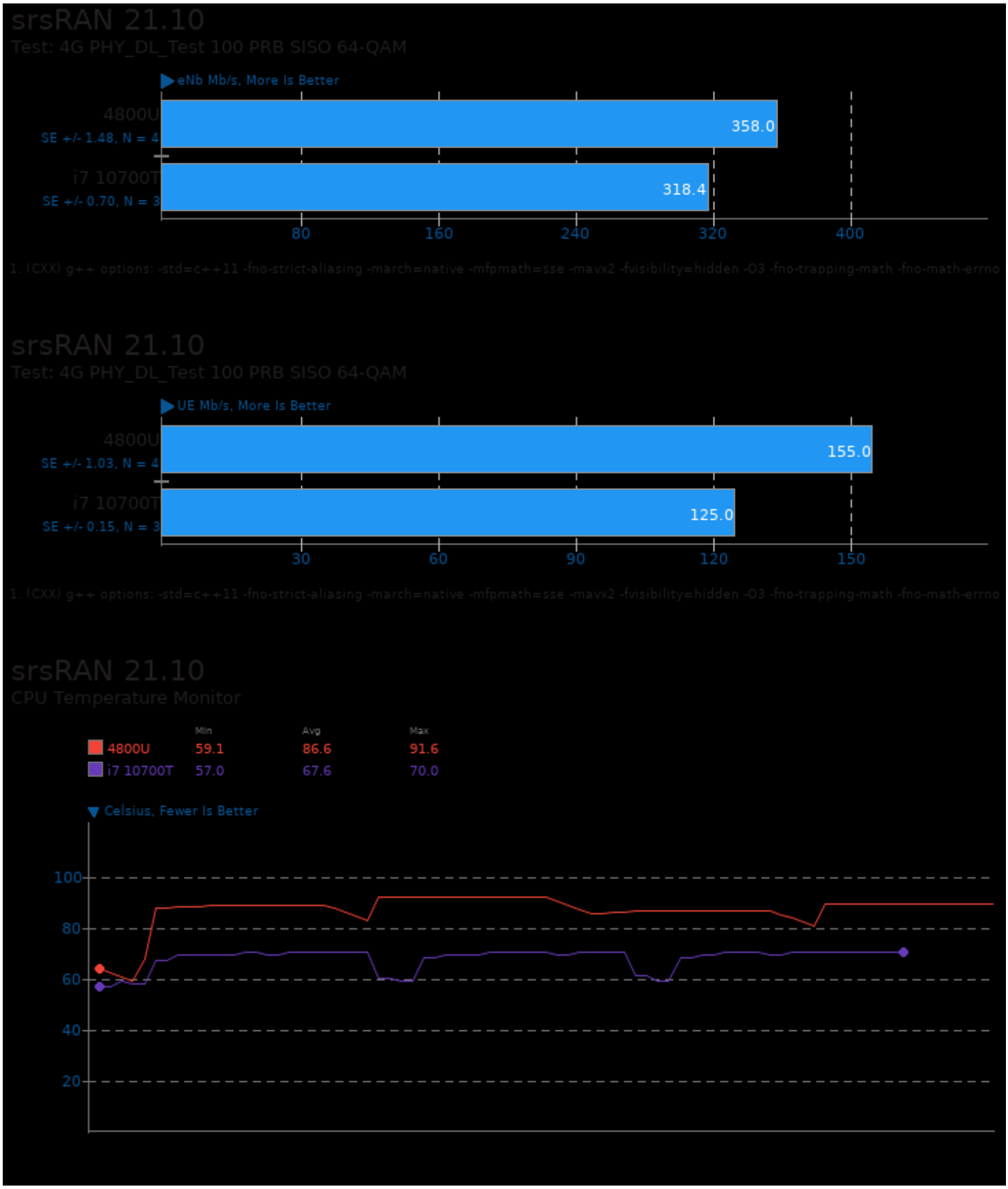

JPEG XL libjxl 0.6.1
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 55.2 58.0
Celsius, Fewer Is Better
80
64
48
32
16
JPEG XL libjxl 0.6.1
System Temperature Monitor
Min
Avg
Max
4800U 72.0 75.2 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


srsRAN 21.10
Test: OFDM_Test
Samples / Second, More Is Better
4800U
131900000
E +/- 1464012.75, N = 3
i7 10700T
100400000
SE +/- 208166.60, N = 3
30M
60M
90M
120M
150M
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
CPU Temperature Monitor
Min
Avg
Max
4800U 62.8 93.5 97.1
i7 10700T 58.0 71.4 74.0
Celsius, Fewer Is Better
100
80
60
40
20

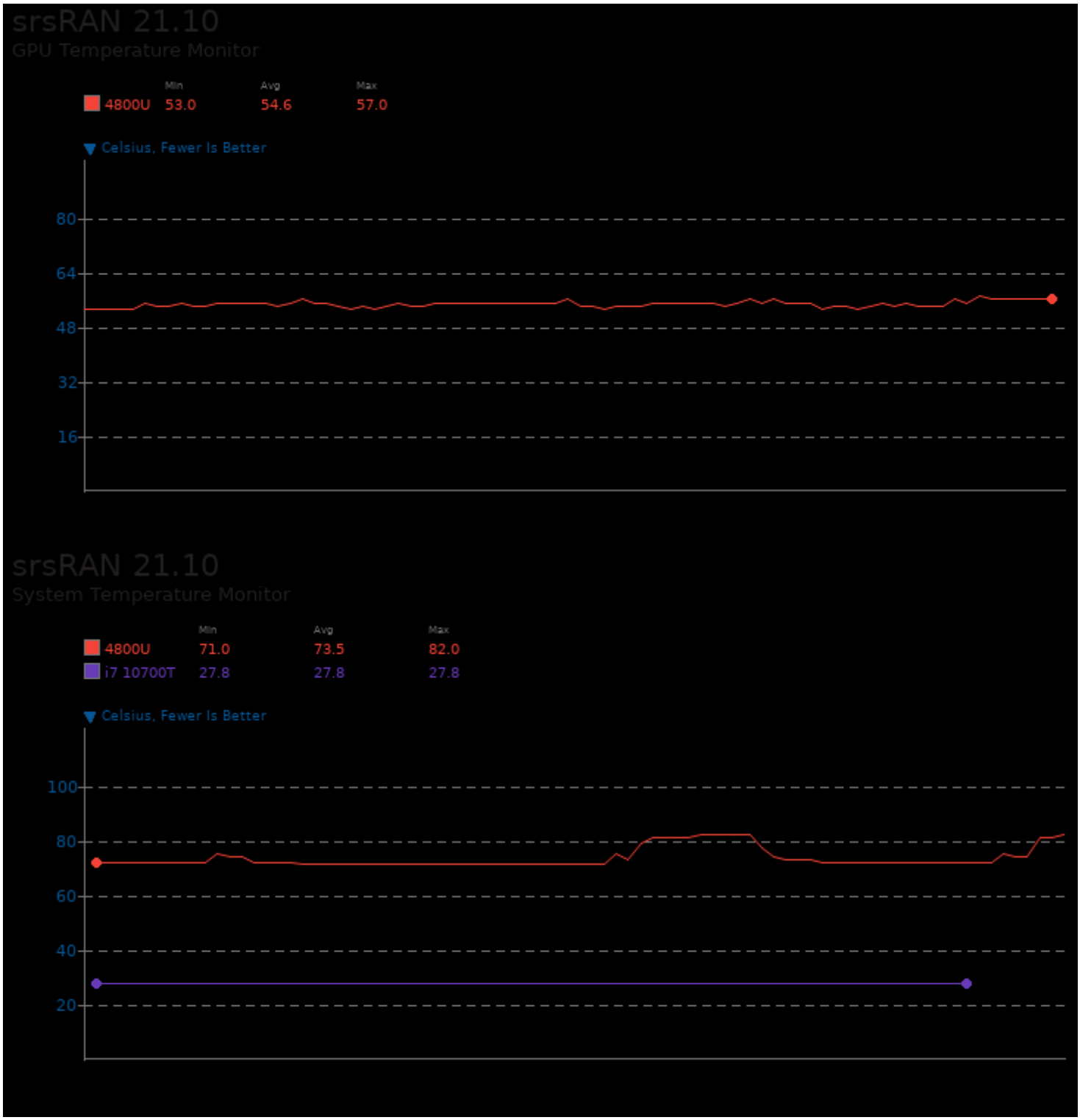

srsRAN 21.10
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 54.6 56.0
Celsius, Fewer Is Better
80
64
48
32
16
srsRAN 21.10
System Temperature Monitor
Min
Avg
Max
4800U 70.0 74.4 83.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

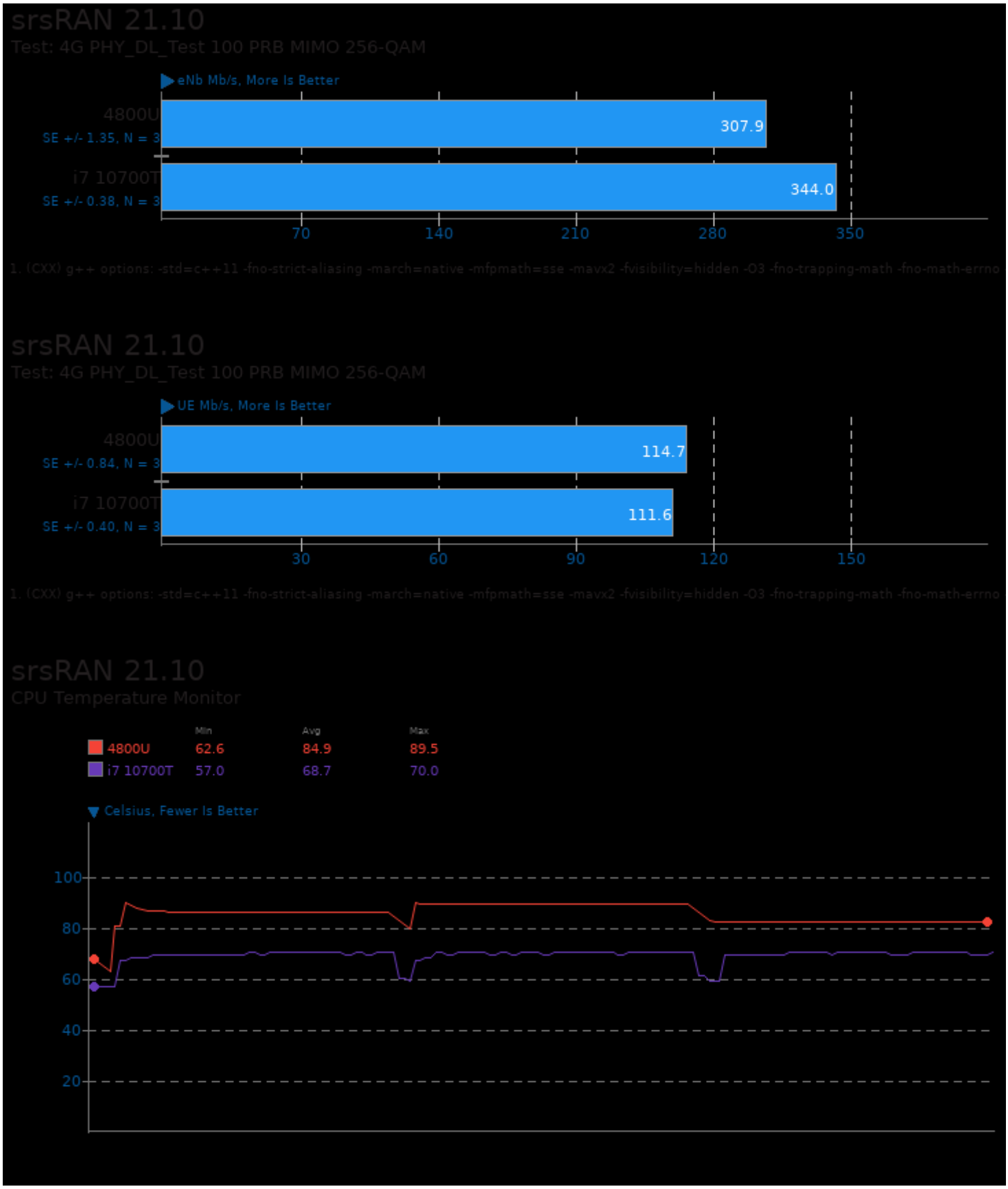

srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
eNb Mb/s, More Is Better
4800U
SE +/- 1.11, N = 3
273.7
i7 10700T
SE +/- 0.12, N = 3
316.0
70
140
210
280
350
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
UE Mb/s, More Is Better
4800U
SE +/- 0.03, N = 3
106.8
i7 10700T
SE +/- 0.03, N = 3
101.3
20
40
60
80
100
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
CPU Temperature Monitor
Min
Avg
Max
4800U
67.4
88.8
95.1
i7 10700T
59.0
69.6
71.0
Celsius, Fewer Is Better
100
80
60
40
20

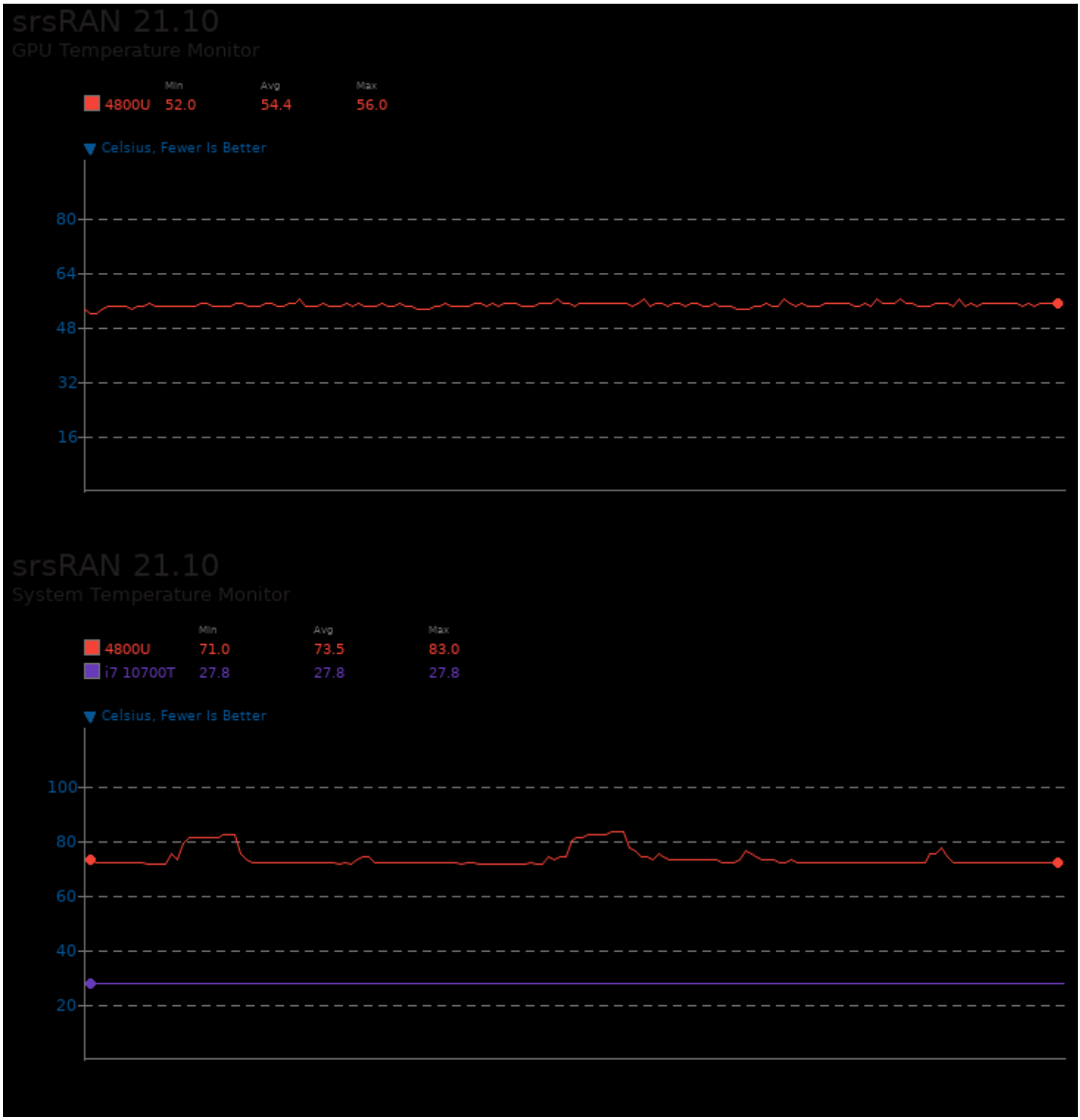

srsRAN 21.10
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 55.0 57.0
Celsius, Fewer Is Better
80
64
48
32
16
srsRAN 21.10
System Temperature Monitor
Min
Avg
Max
4800U 71.0 75.7 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

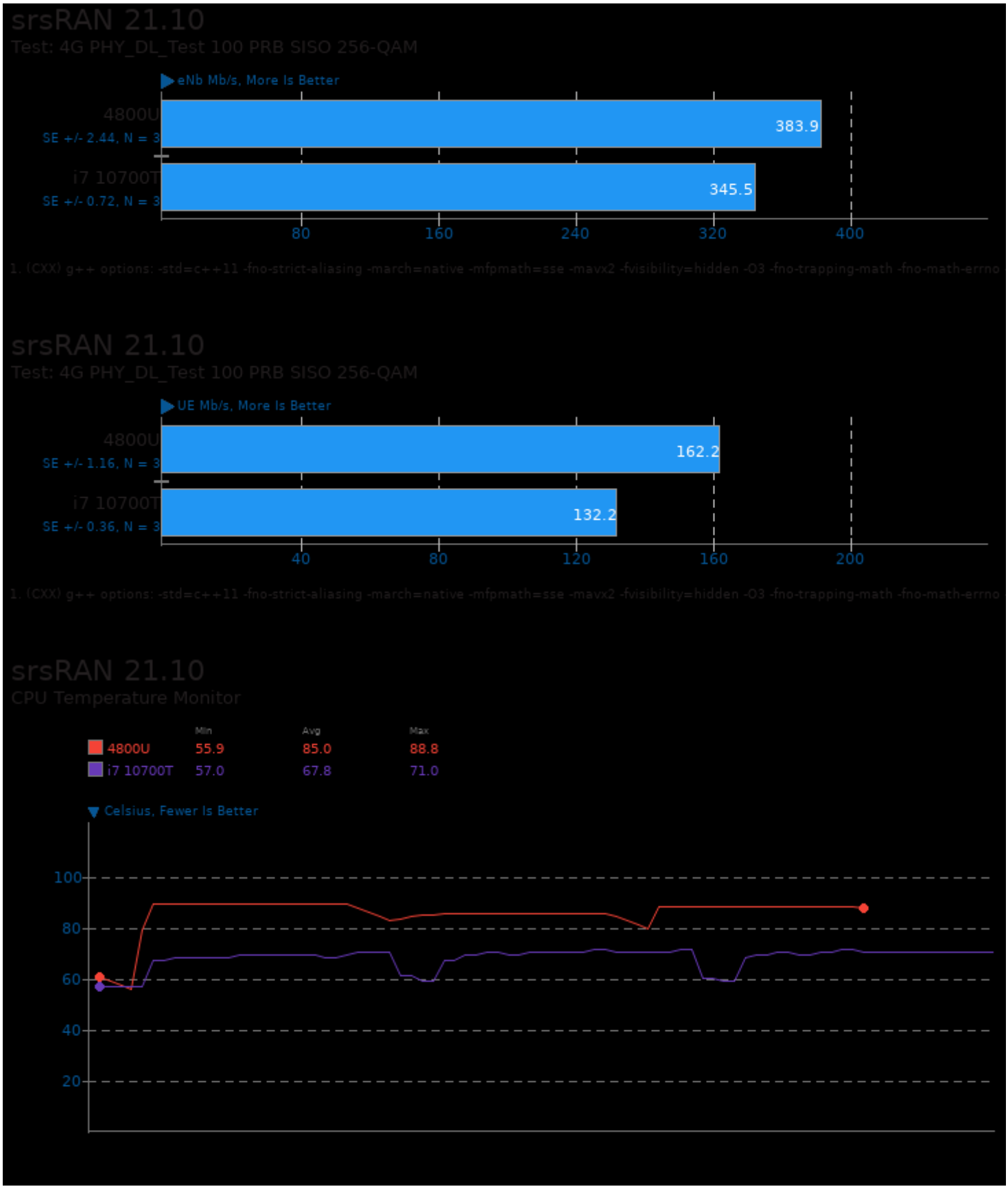

srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
eNb Mb/s, More Is Better
4800U
SE +/- 1.48, N = 4
358.0
i7 10700T
SE +/- 0.70, N = 3
318.4
80
160
240
320
400
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
UE Mb/s, More Is Better
4800U
SE +/- 1.03, N = 4
155.0
i7 10700T
SE +/- 0.15, N = 3
125.0
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
CPU Temperature Monitor
Min
Avg
Max
4800U
59.1
86.6
91.6
i7 10700T
57.0
67.6
70.0
Celsius, Fewer Is Better
100
80
60
40
20

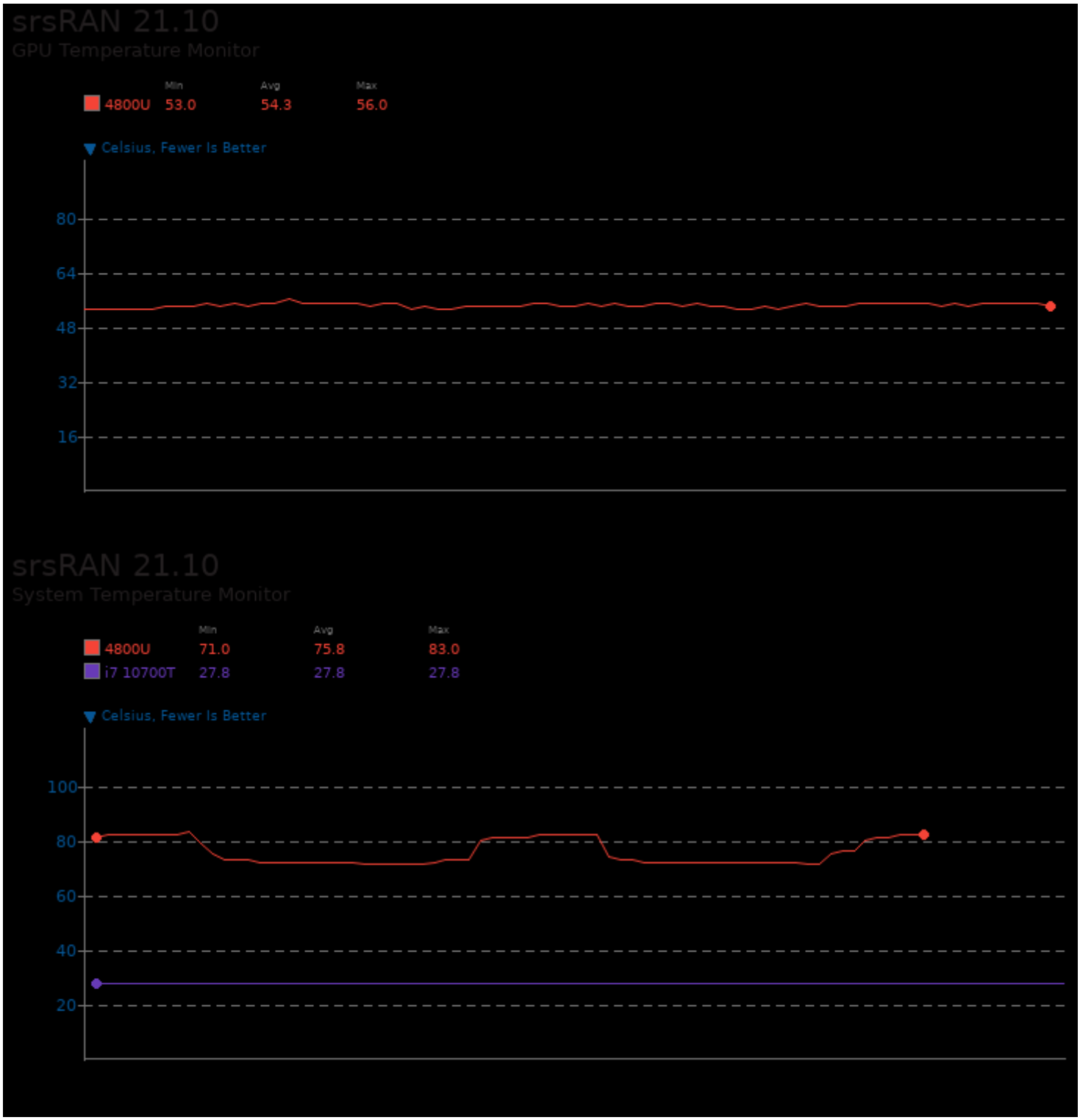
OnLogic Ryzen 4800U

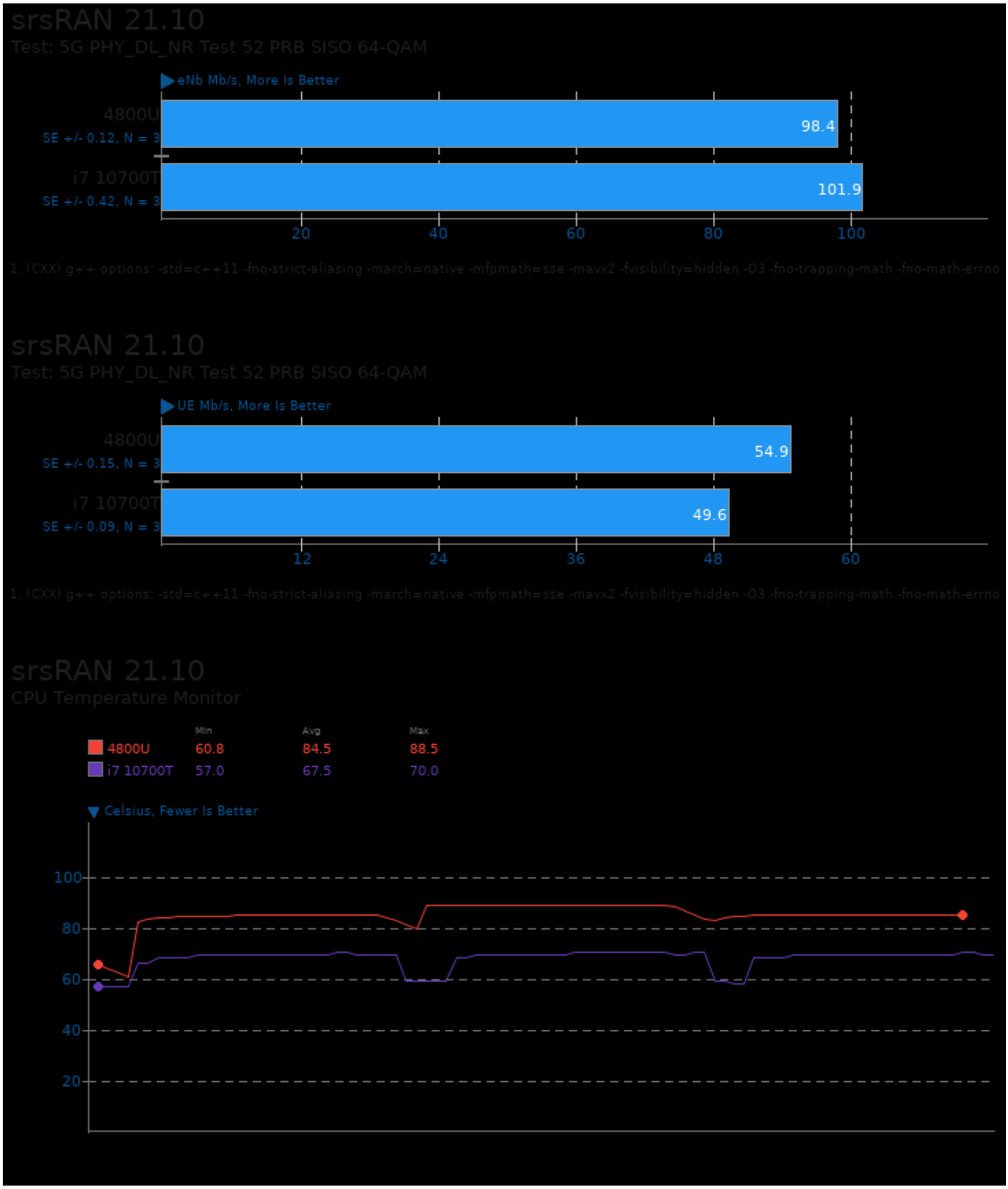


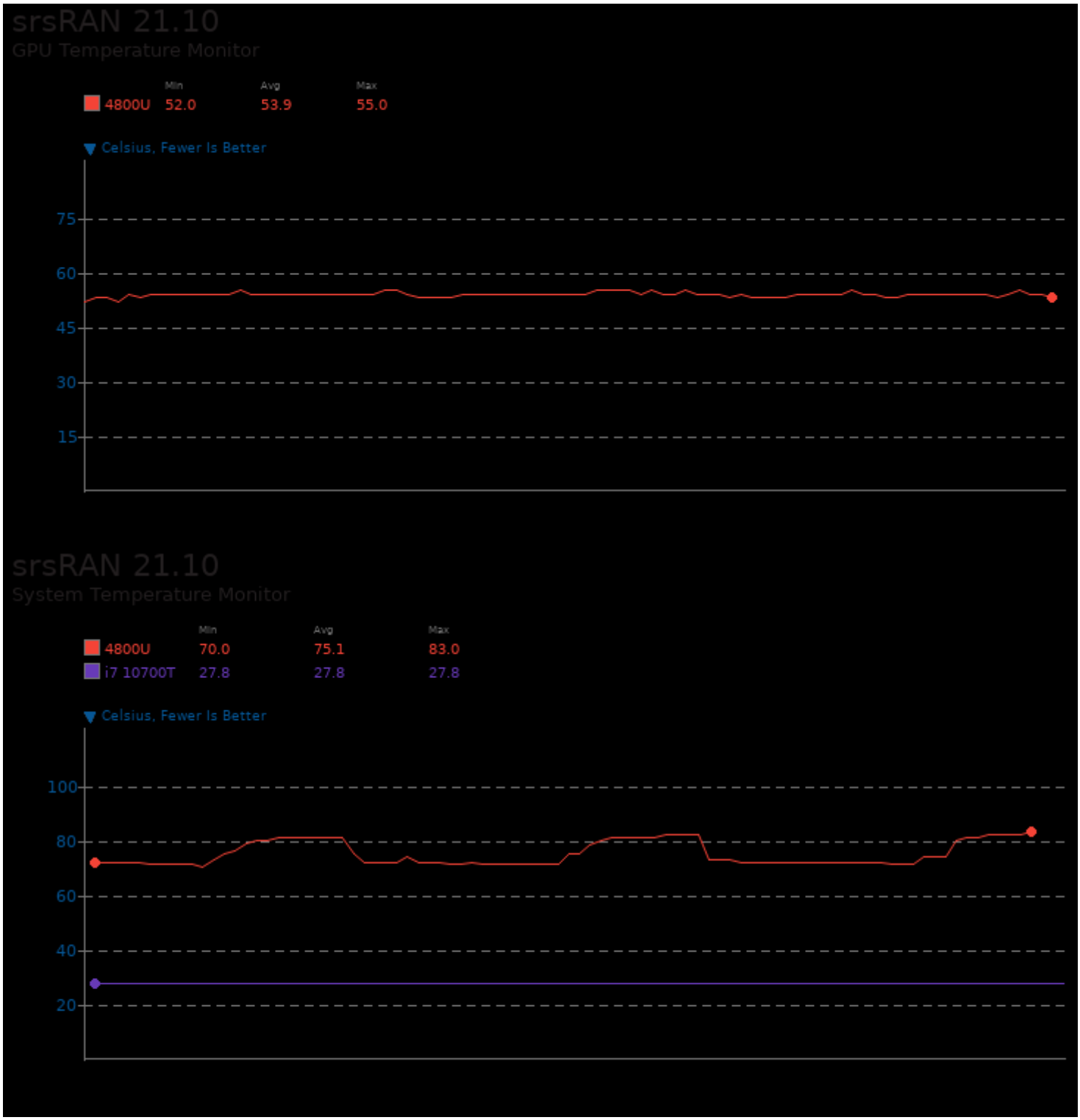

srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM
eNb Mb/s, More Is Better
4800U
SE +/- 1.35, N = 3
307.9
i7 10700T
SE +/- 0.38, N = 3
344.0
70
140
210
280
350
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM
UE Mb/s, More Is Better
4800U
SE +/- 0.84, N = 3
114.7
i7 10700T
SE +/- 0.40, N = 3
111.6
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
CPU Temperature Monitor
Min
Avg
Max
4800U
62.6
84.9
89.5
i7 10700T
57.0
68.7
70.0
Celsius, Fewer Is Better
100
80
60
40
20

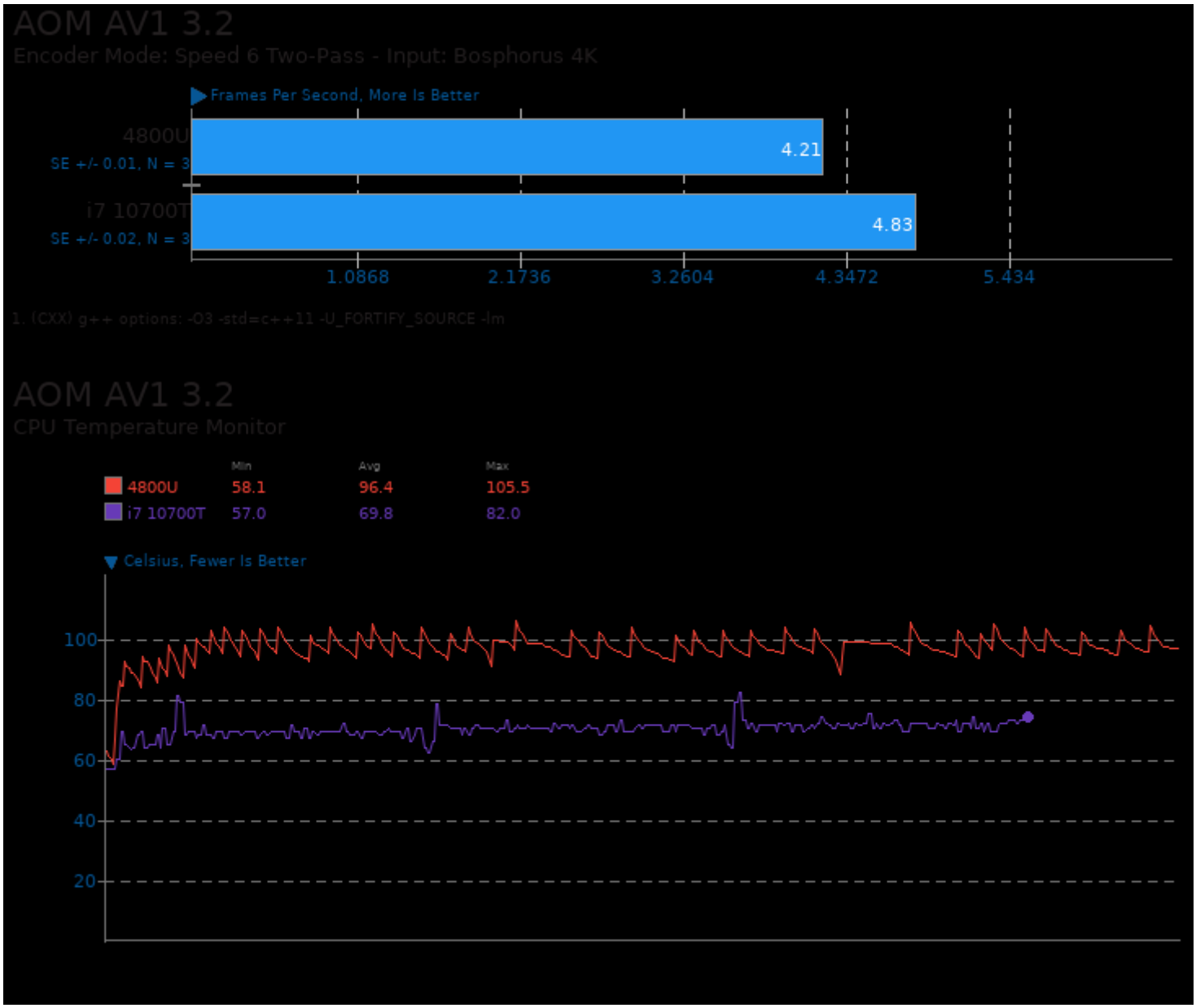

srsRAN 21.10
GPU Temperature Monitor
Min
Avg
Max
4800U 52.0 54.4 56.0
Celsius, Fewer Is Better
80
64
48
32
16
srsRAN 21.10
System Temperature Monitor
Min
Avg
Max
4800U 71.0 73.5 83.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

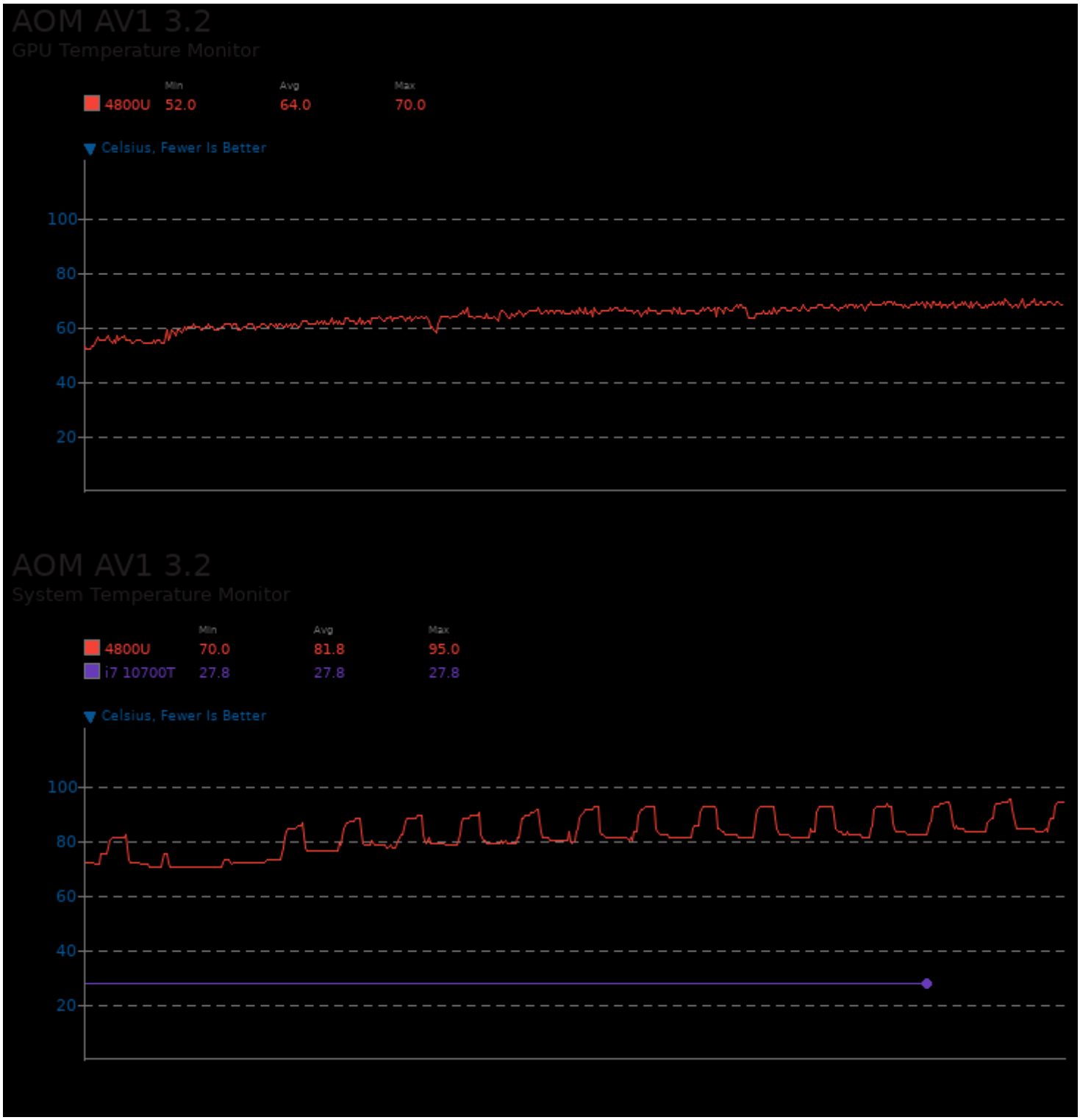

srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM
eNb Mb/s, More Is Better
4800U
SE +/- 2.44, N = 3
383.9
i7 10700T
SE +/- 0.72, N = 3
345.5
80
160
240
320
400
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM
UE Mb/s, More Is Better
4800U
SE +/- 1.16, N = 3
162.2
i7 10700T
SE +/- 0.36, N = 3
132.2
40
80
120
160
200
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
CPU Temperature Monitor
Min
Avg
Max
4800U 55.9 85.0 88.8
i7 10700T 57.0 67.8 71.0
Celsius, Fewer Is Better
100
80
60
40
20

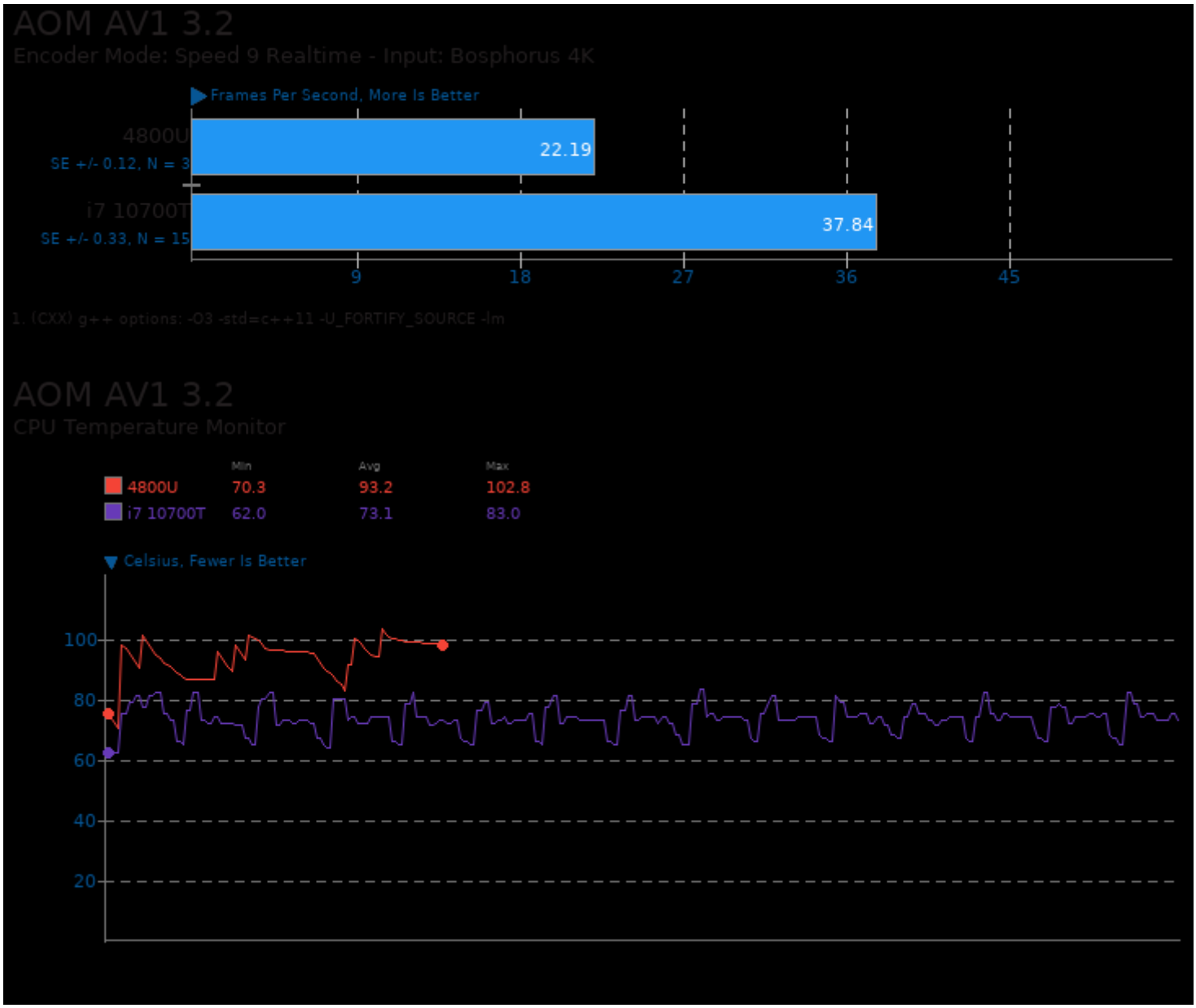

srsRAN 21.10
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 54.3 56.0
Celsius, Fewer Is Better
80
64
48
32
16
srsRAN 21.10
System Temperature Monitor
Min
Avg
Max
4800U 71.0 75.8 83.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

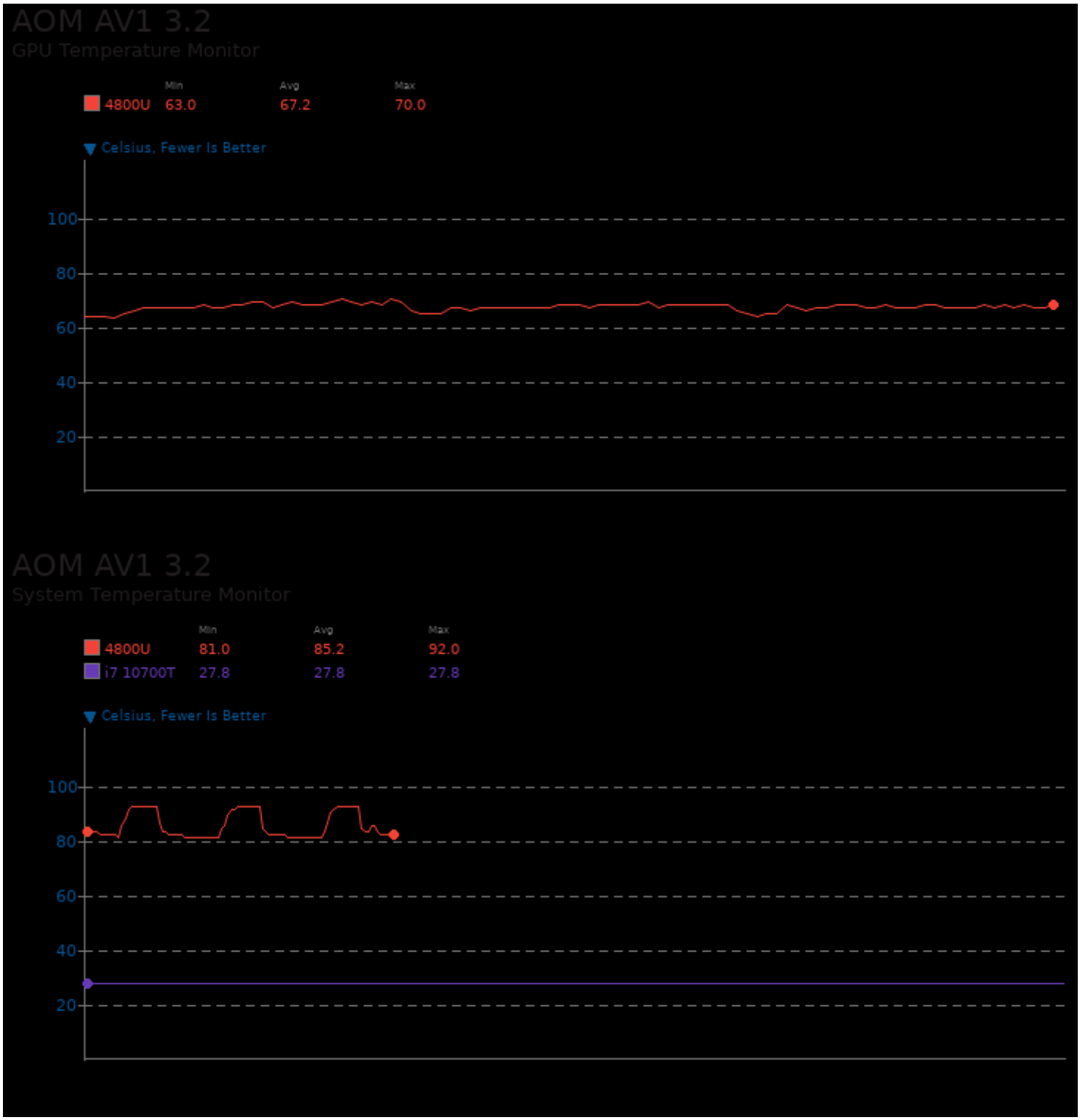

srsRAN 21.10
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM
eNb Mb/s, More Is Better
4800U
SE +/- 0.12, N = 3
98.4
i7 10700T
SE +/- 0.42, N = 3
101.9
20
40
60
80
100
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM
UE Mb/s, More Is Better
4800U
SE +/- 0.15, N = 3
54.9
i7 10700T
SE +/- 0.09, N = 3
49.6
12
24
36
48
60
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.10
CPU Temperature Monitor
Min
Avg
Max
4800U 60.8 84.5 88.5
i7 10700T 57.0 67.5 70.0
Celsius, Fewer Is Better
100
80
60
40
20

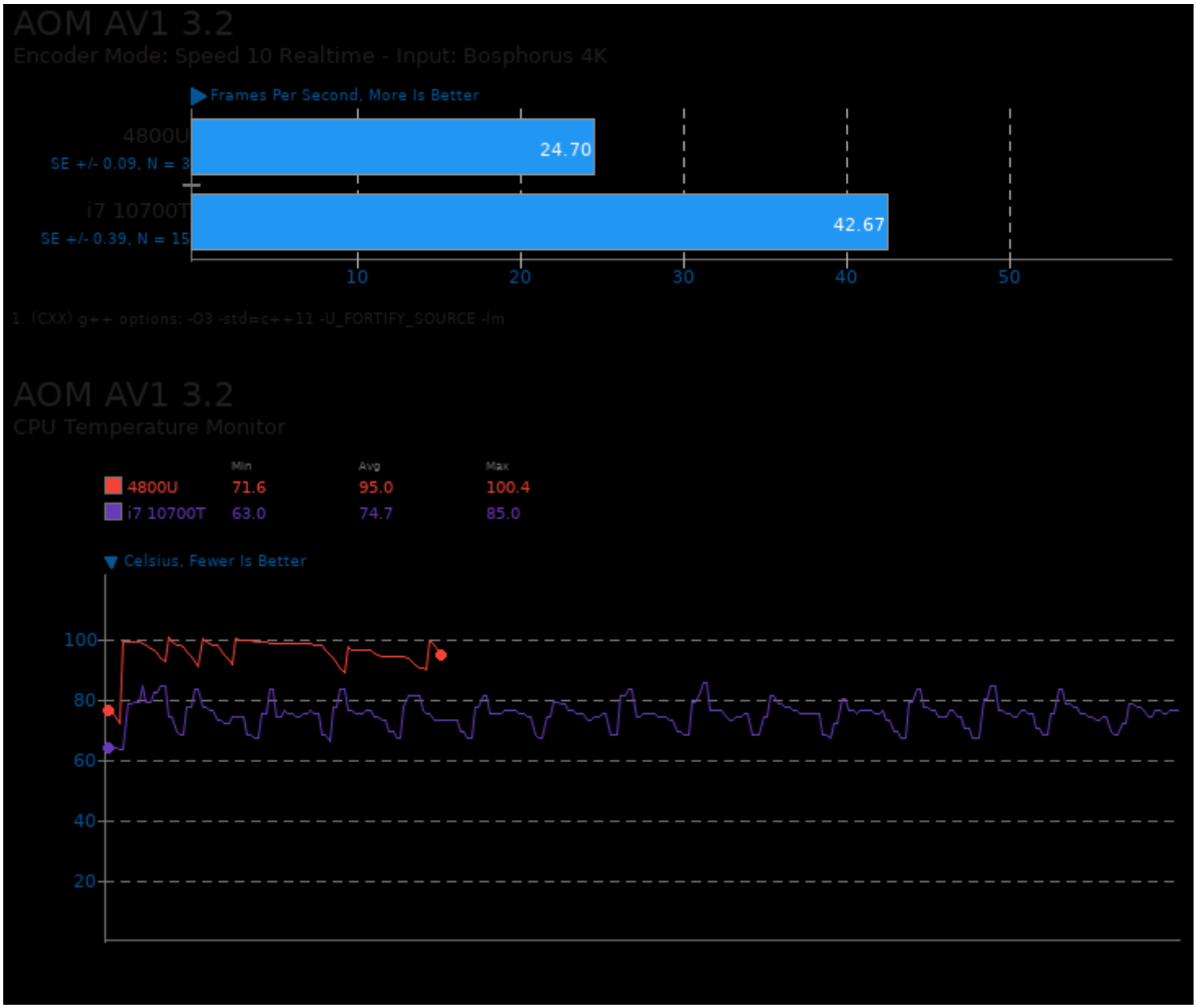

srsRAN 21.10
GPU Temperature Monitor
Min
Avg
Max
4800U 52.0 53.9 55.0
Celsius, Fewer Is Better
75
60
45
30
15
srsRAN 21.10
System Temperature Monitor
Min
Avg
Max
4800U 70.0 75.1 83.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

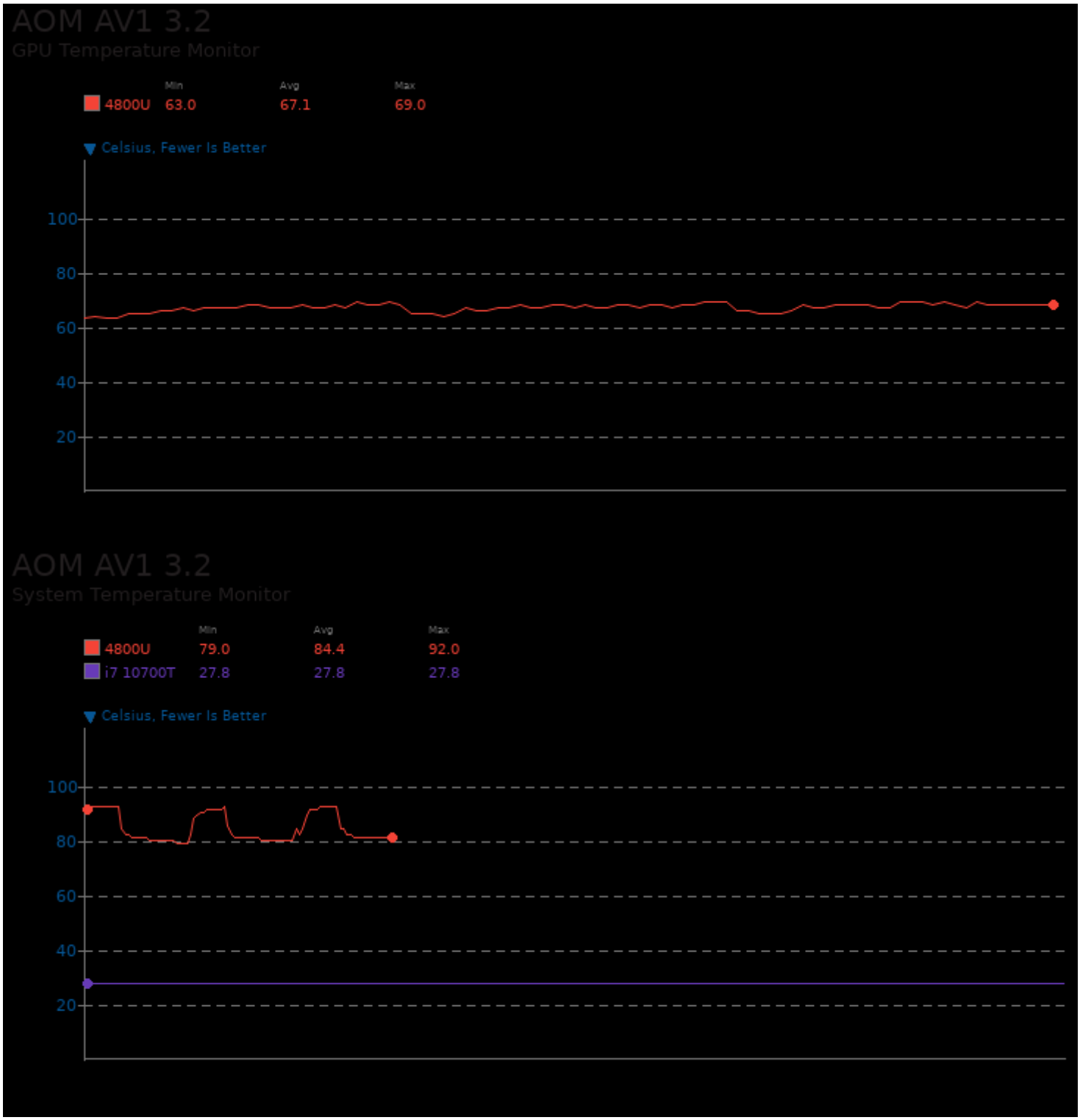

AOM AV1 3.2
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.01, N = 3
4.21
i7 10700T
SE +/- 0.02, N = 3
4.83
1.0868
2.1736
3.2604
4.3472
5.434
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.2
CPU Temperature Monitor
Min
Avg
Max
4800U
58.1
96.4
105.5
i7 10700T
57.0
69.8
82.0
Celsius, Fewer Is Better
100
80
60
40
20

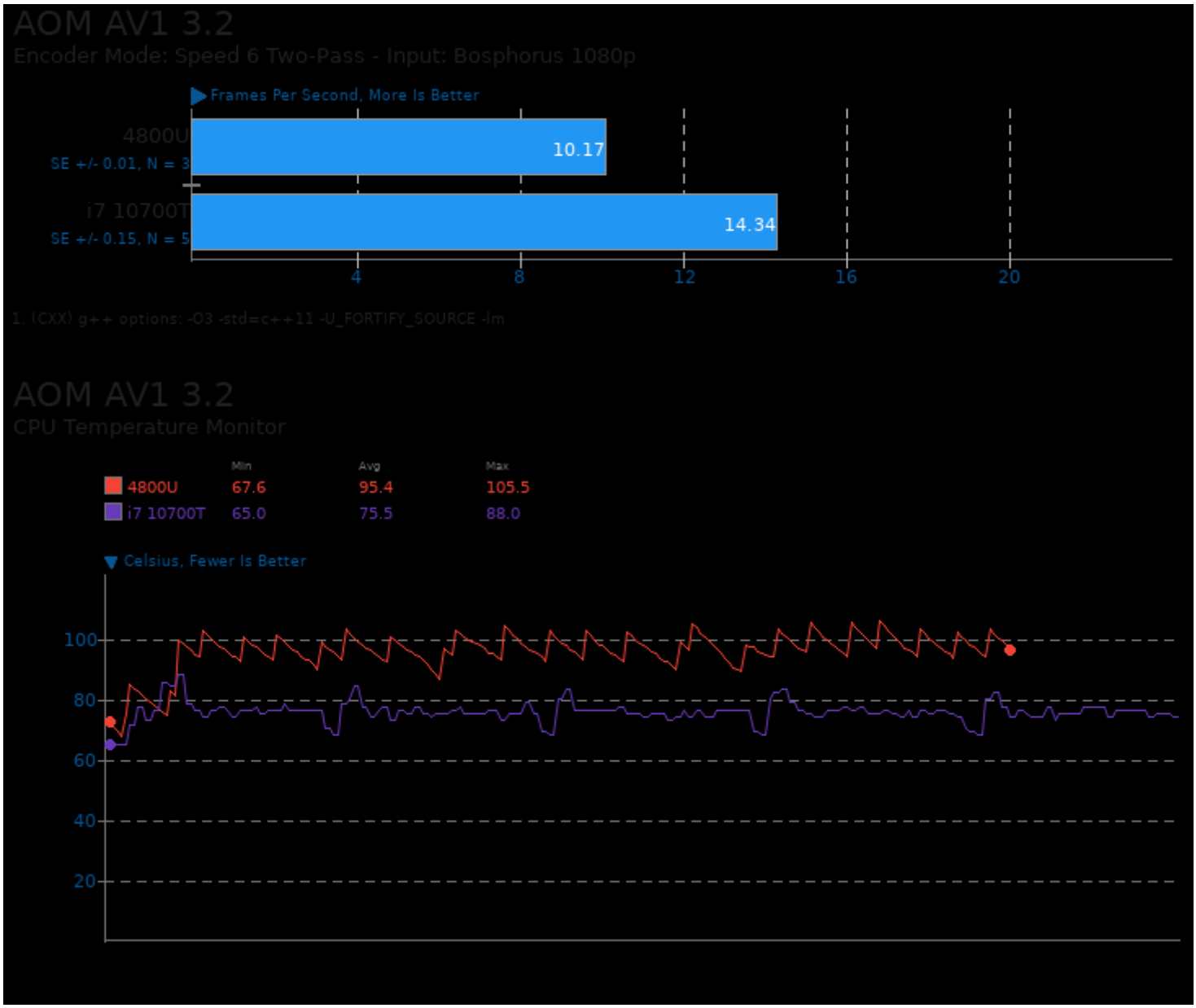

AOM AV1 3.2
GPU Temperature Monitor
Min
Avg
Max
4800U 52.0 64.0 70.0
Celsius, Fewer Is Better
100
80
60
40
20
AOM AV1 3.2
System Temperature Monitor
Min
Avg
Max
4800U 70.0 81.8 95.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

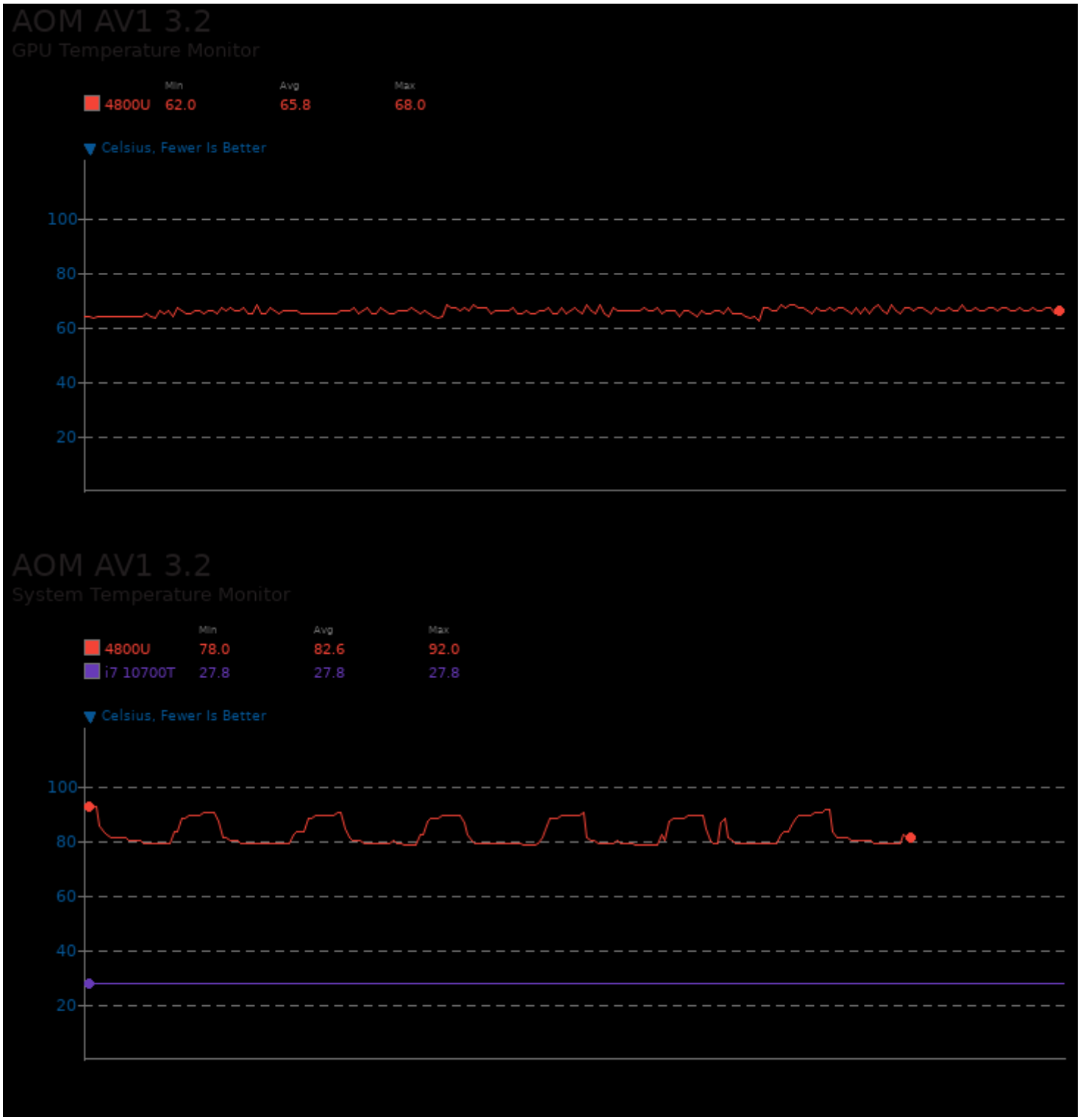

AOM AV1 3.2
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.12, N = 3
22.19
i7 10700T
SE +/- 0.33, N = 15
37.84
9
18
27
36
45
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.2
CPU Temperature Monitor
Min
Avg
Max
4800U 70.3 93.2 102.8
i7 10700T 62.0 73.1 83.0
Celsius, Fewer Is Better
100
80
60
40
20

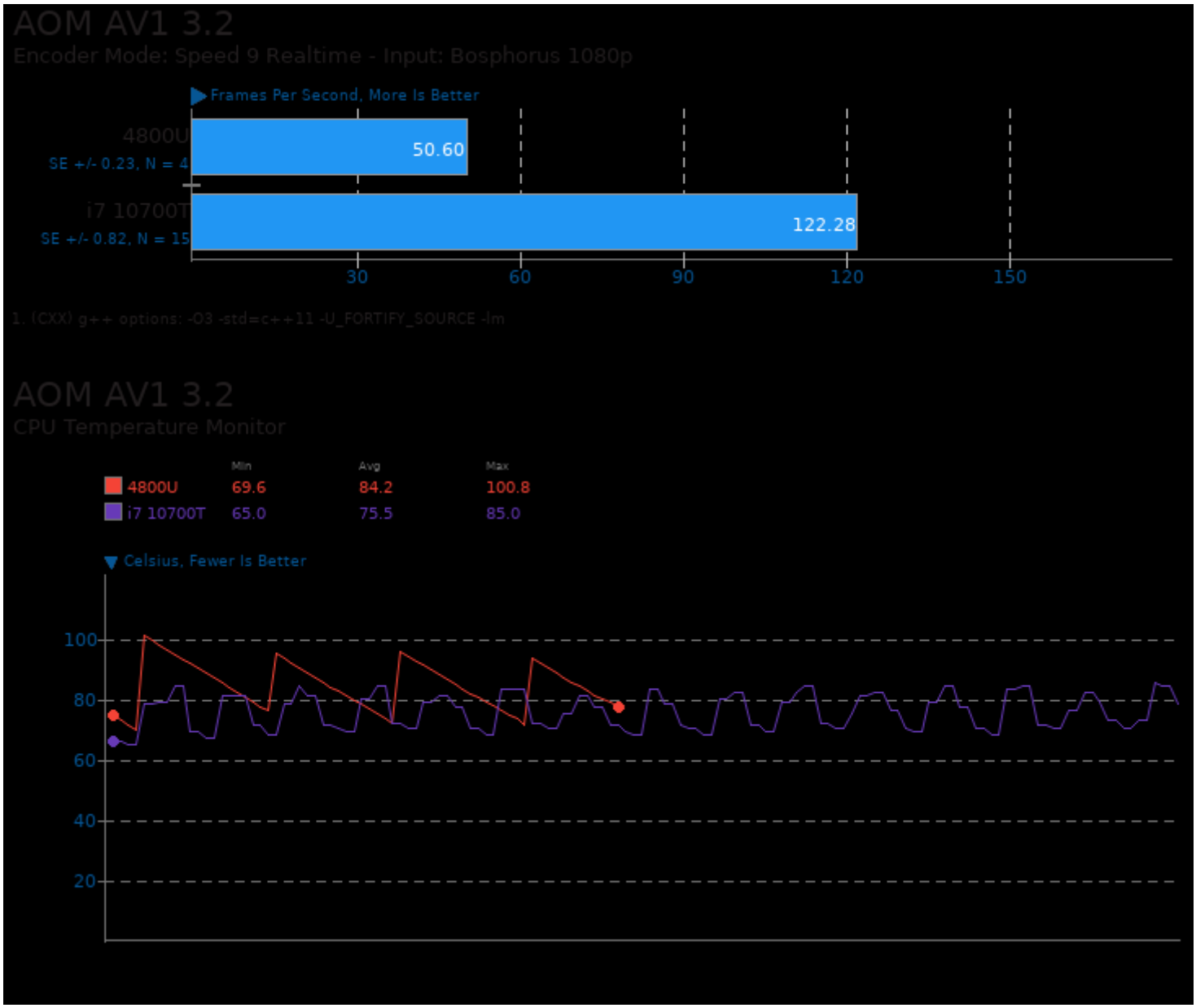

AOM AV1 3.2
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 67.2 70.0
Celsius, Fewer Is Better
100
80
60
40
20
AOM AV1 3.2
System Temperature Monitor
Min
Avg
Max
4800U 81.0 85.2 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


AOM AV1 3.2
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.09, N = 3
24.70
i7 10700T
SE +/- 0.39, N = 15
42.67
10
20
30
40
50
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.2
CPU Temperature Monitor
Min
Avg
Max
4800U 71.6 95.0 100.4
i7 10700T 63.0 74.7 85.0
Celsius, Fewer Is Better
100
80
60
40
20

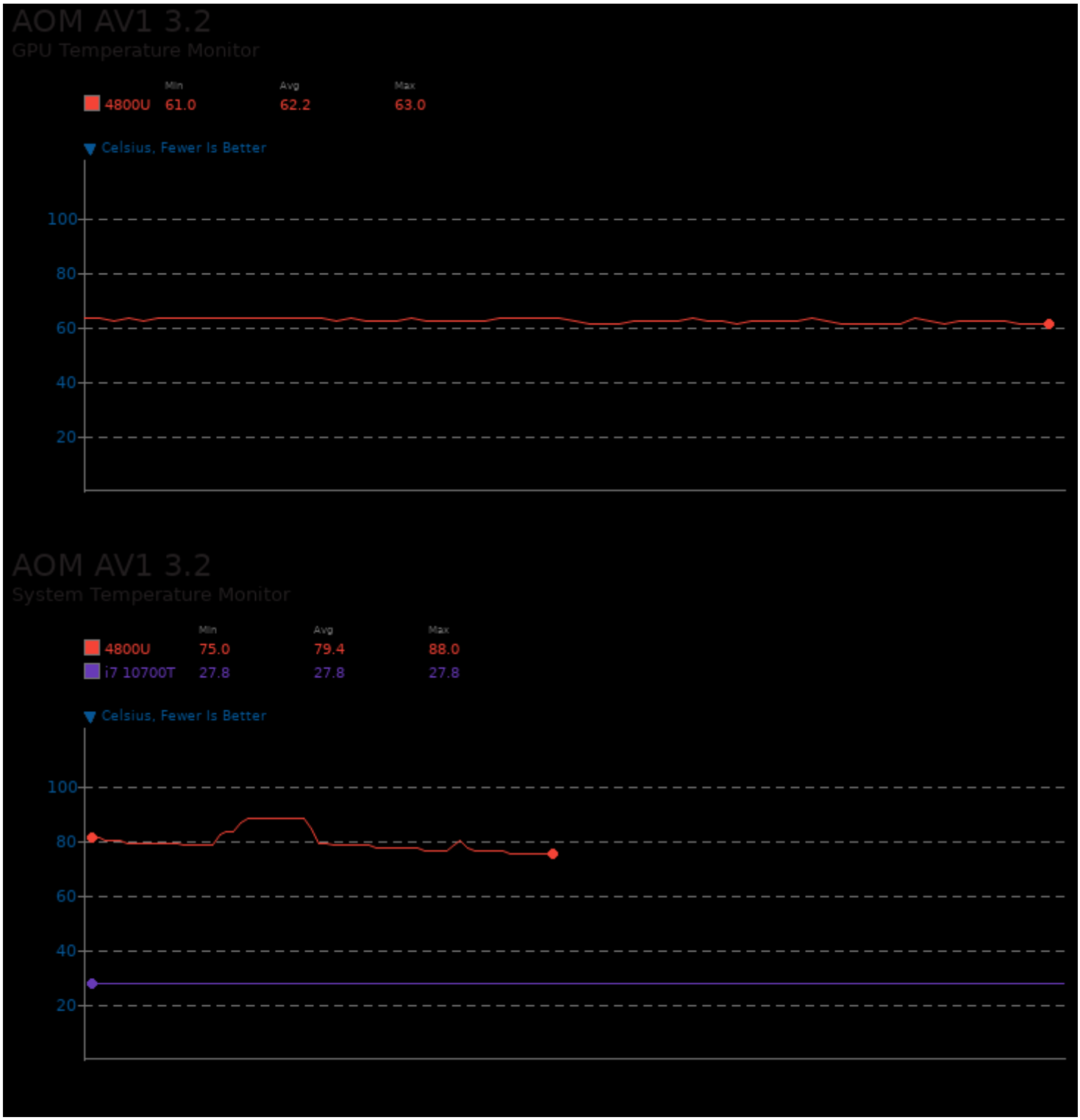

AOM AV1 3.2
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 67.1 69.0
Celsius, Fewer Is Better
100
80
60
40
20
AOM AV1 3.2
System Temperature Monitor
Min
Avg
Max
4800U 79.0 84.4 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

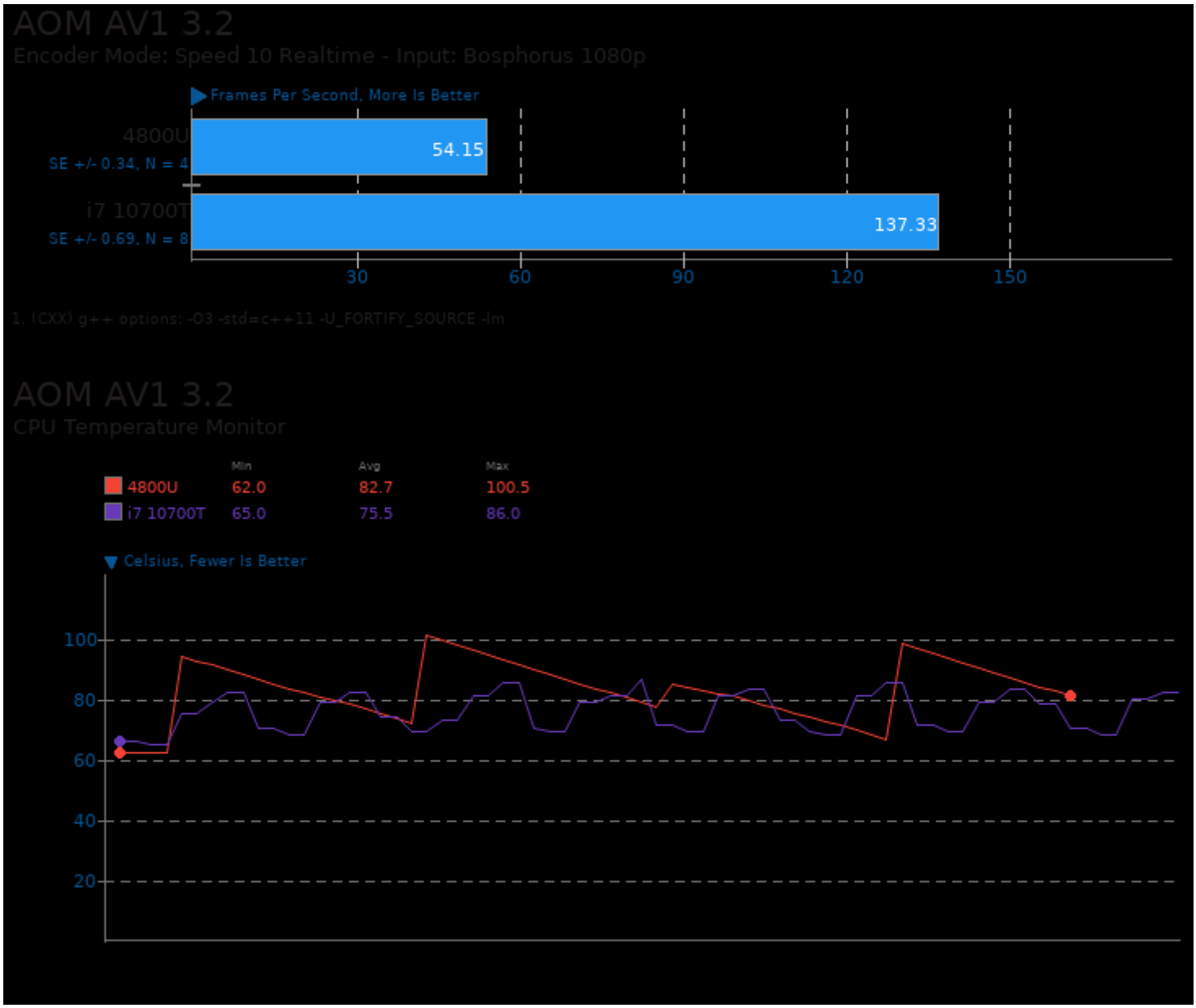

AOM AV1 3.2
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.01, N = 3
10.17
i7 10700T
SE +/- 0.15, N = 5
14.34
4
8
12
16
20
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.2
CPU Temperature Monitor
Min
Avg
Max
4800U
67.6
95.4
105.5
i7 10700T
65.0
75.5
88.0
Celsius, Fewer Is Better
100
80
60
40
20

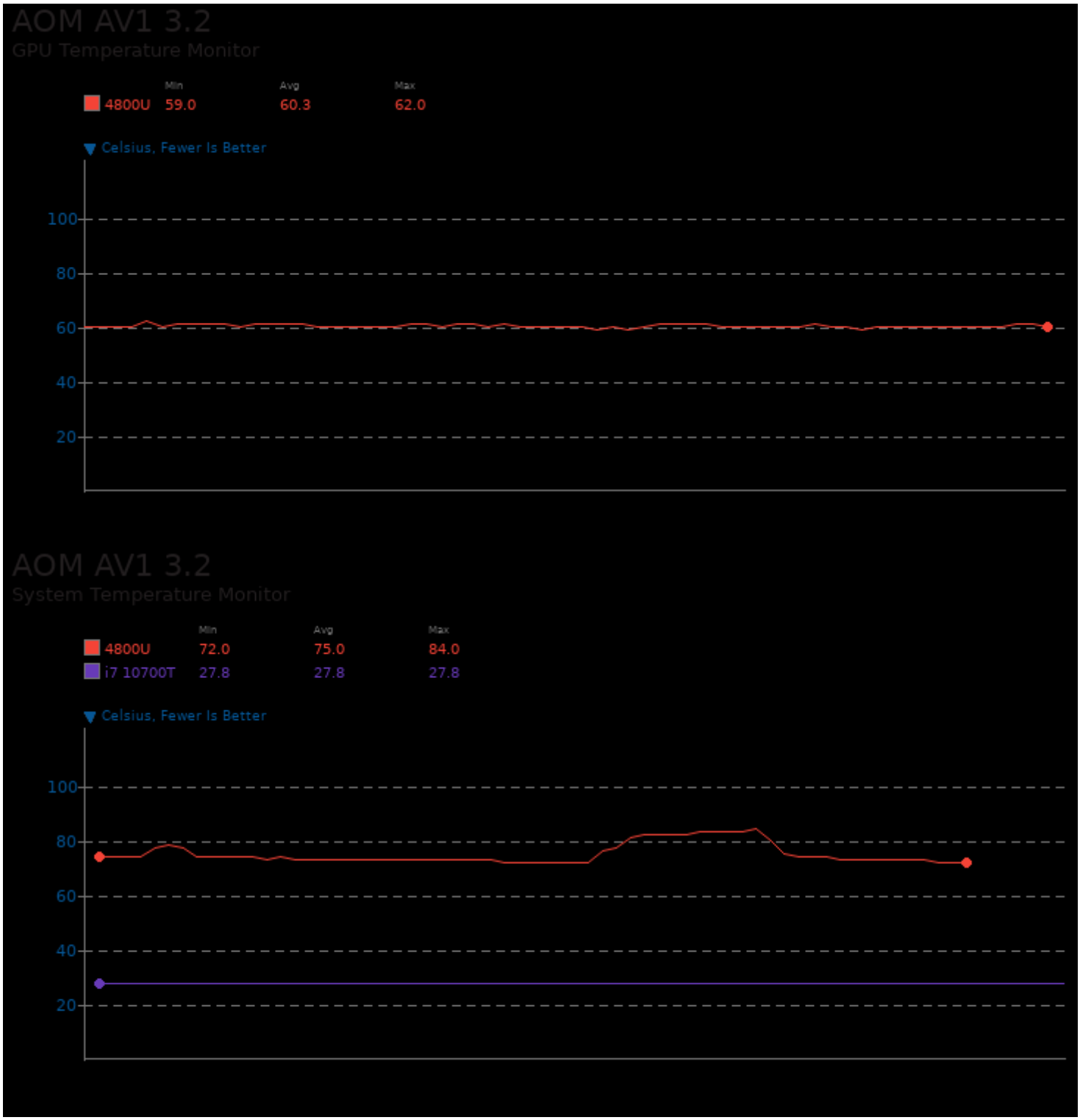

AOM AV1 3.2
GPU Temperature Monitor
Min
Avg
Max
4800U 62.0 65.8 68.0
Celsius, Fewer Is Better
100
80
60
40
20
AOM AV1 3.2
System Temperature Monitor
Min
Avg
Max
4800U 78.0 82.6 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

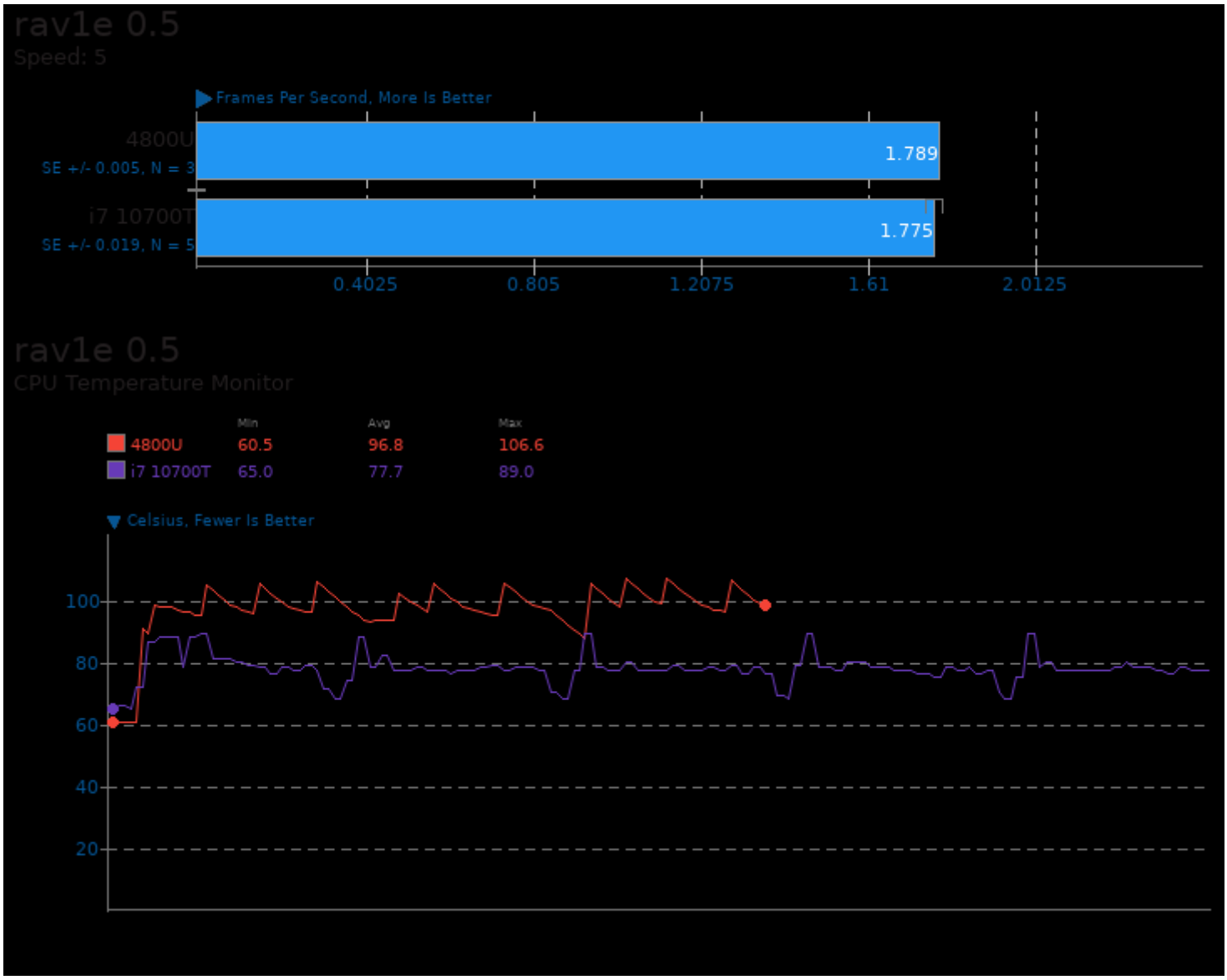

AOM AV1 3.2
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.23, N = 4
50.60
i7 10700T
SE +/- 0.82, N = 15
122.28
30
60
90
120
150
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.2
CPU Temperature Monitor
Min
Avg
Max
4800U 69.6 84.2 100.8
i7 10700T 65.0 75.5 85.0
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

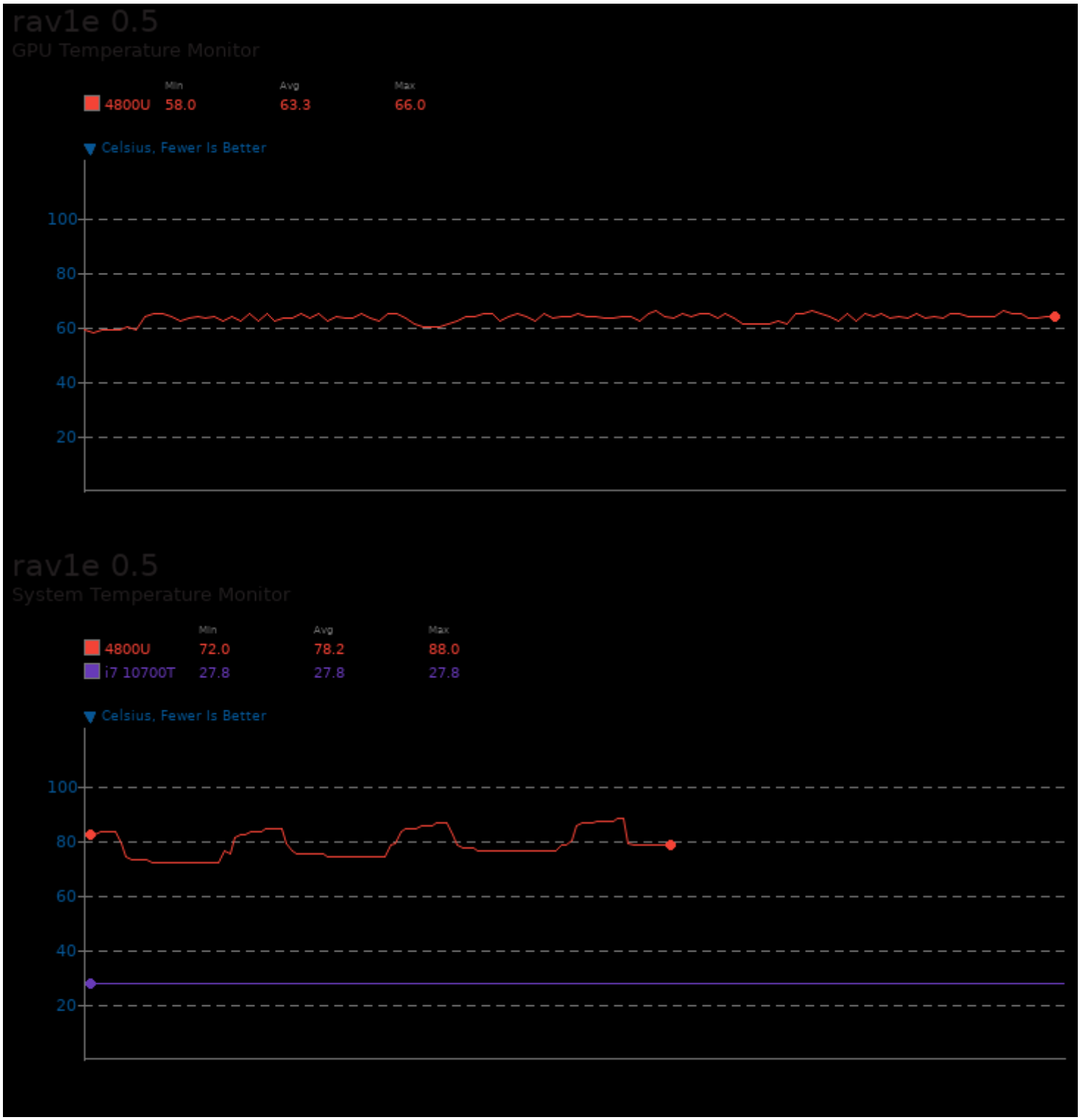



AOM AV1 3.2
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.34, N = 4
54.15
i7 10700T
SE +/- 0.69, N = 8
137.33
30
60
90
120
150
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm
AOM AV1 3.2
CPU Temperature Monitor
Min
Avg
Max
4800U 62.0 82.7 100.5
i7 10700T 65.0 75.5 86.0
Celsius, Fewer Is Better
100
80
60
40
20

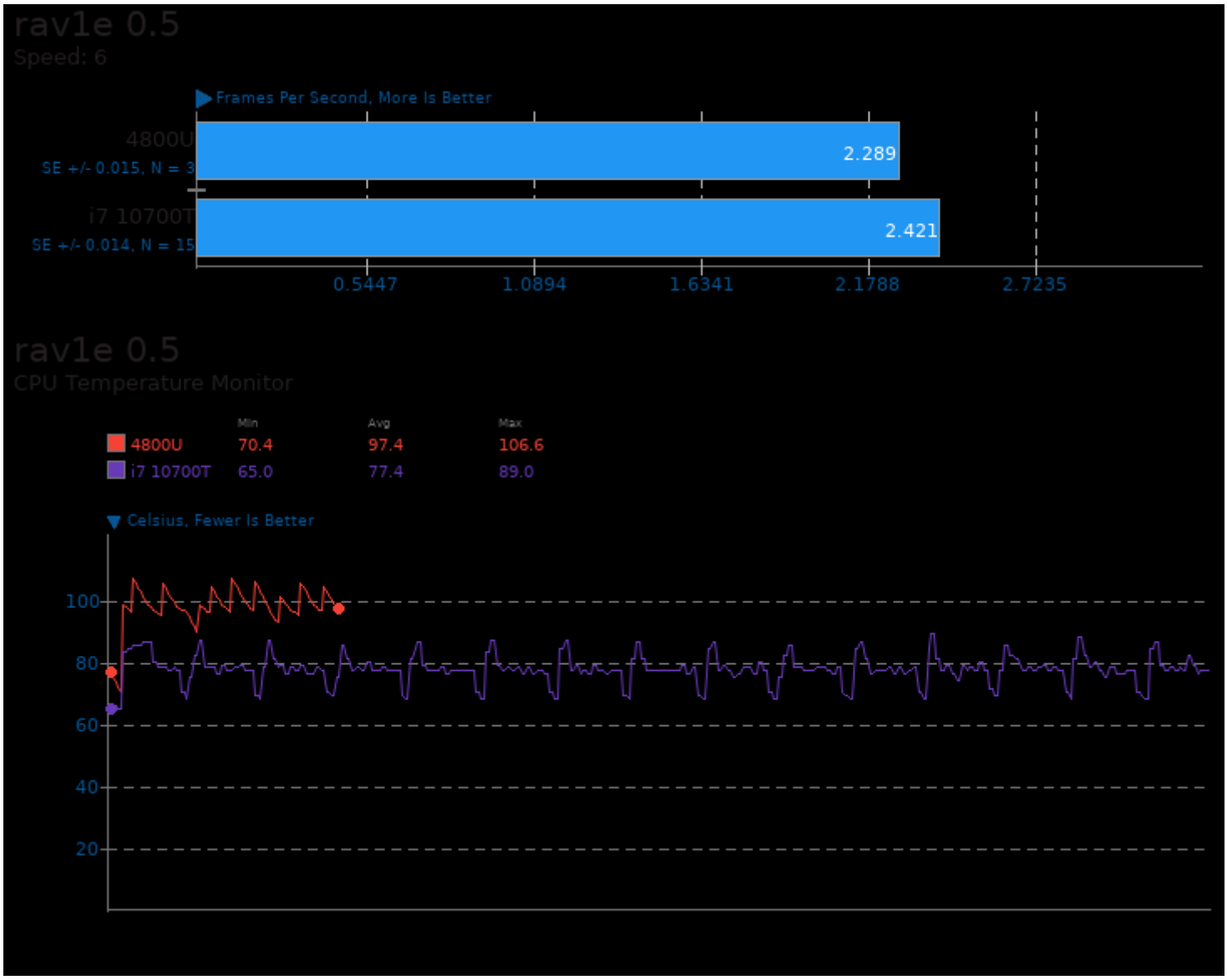

AOM AV1 3.2
GPU Temperature Monitor
Min
Avg
Max
4800U 59.0 60.3 62.0
Celsius, Fewer Is Better
100
80
60
40
20
AOM AV1 3.2
System Temperature Monitor
Min
Avg
Max
4800U 72.0 75.0 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

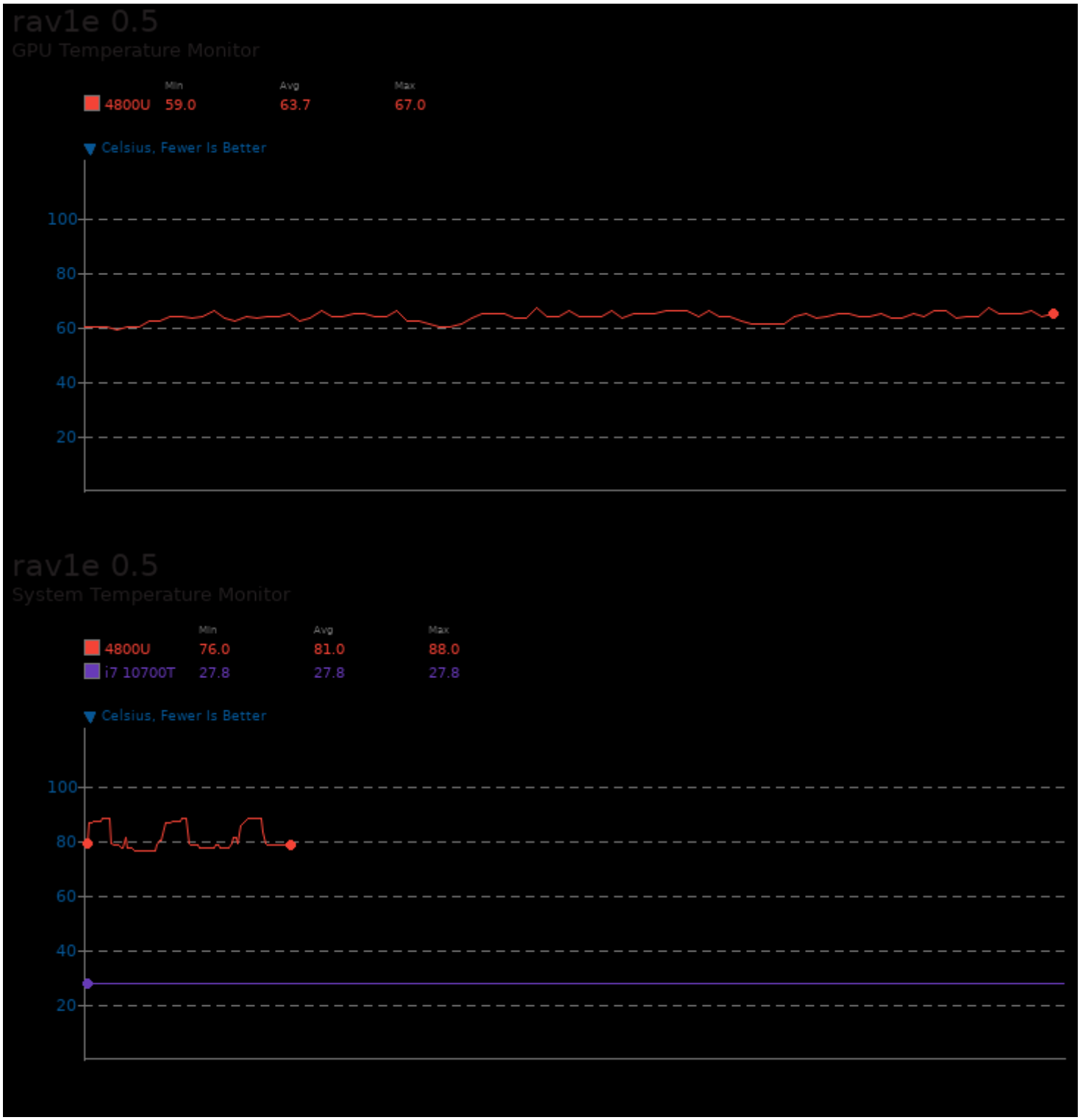

rav1e 0.5
Speed: 5
Frames Per Second, More Is Better
4800U
SE +/- 0.005, N = 3
1.789
i7 10700T
SE +/- 0.019, N = 5
1.775
0.4025
0.805
1.2075
1.61
2.0125
rav1e 0.5
CPU Temperature Monitor
Min
Avg
Max
4800U 60.5 96.8 106.6
i7 10700T 65.0 77.7 89.0
Celsius, Fewer Is Better
100
80
60
40
20

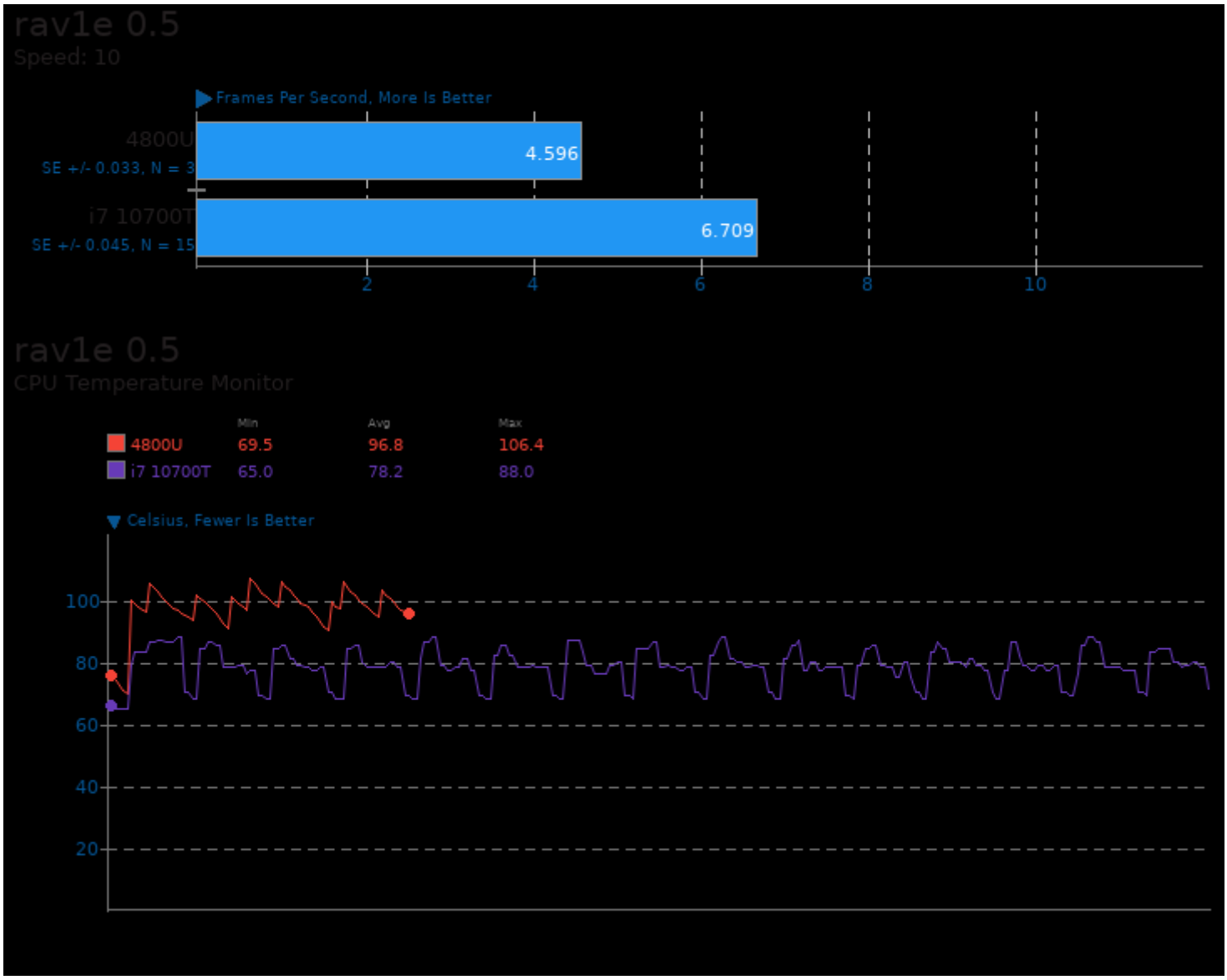
OnLogic Ryzen 4800U



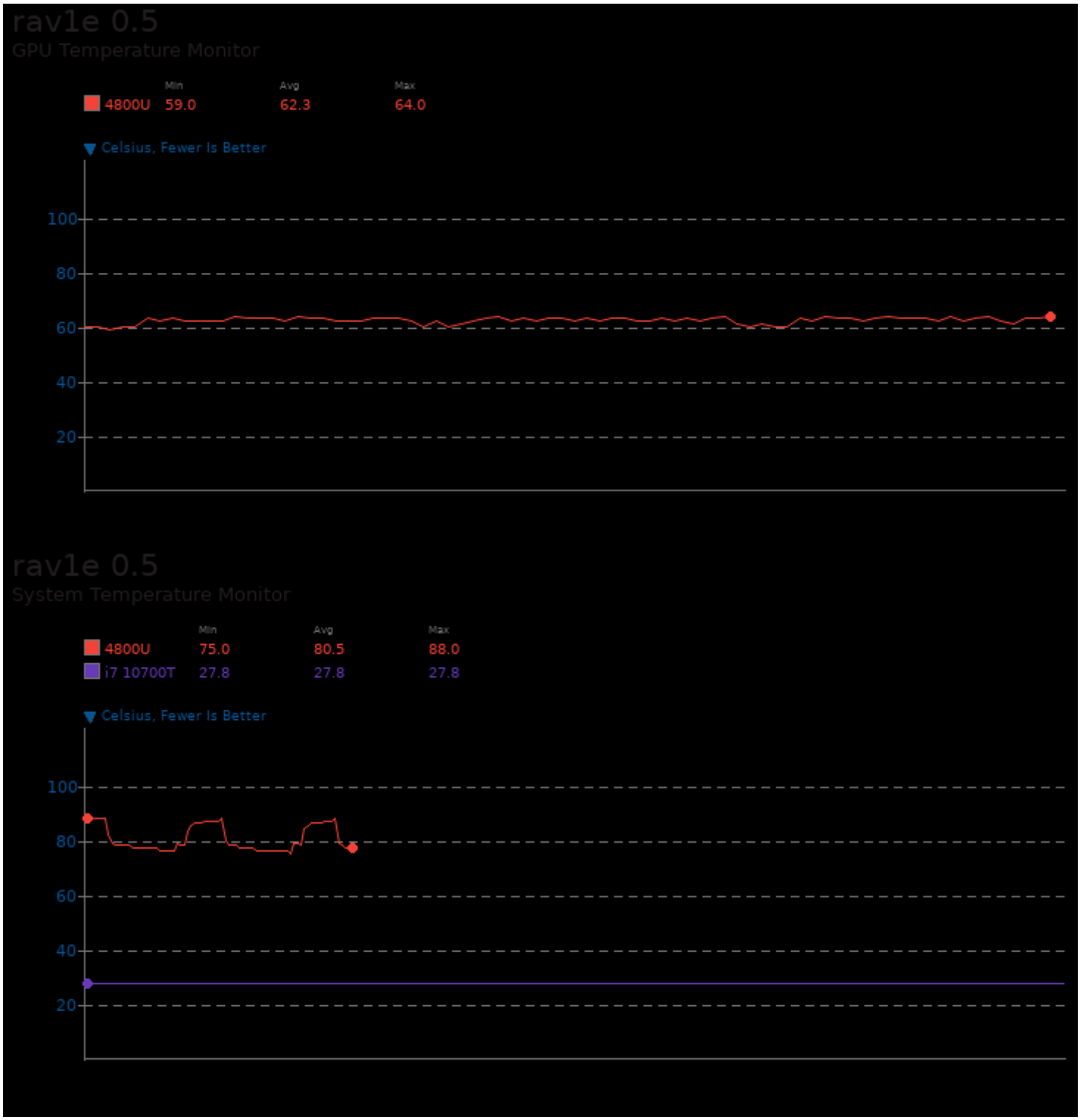
OnLogic Ryzen 4800U

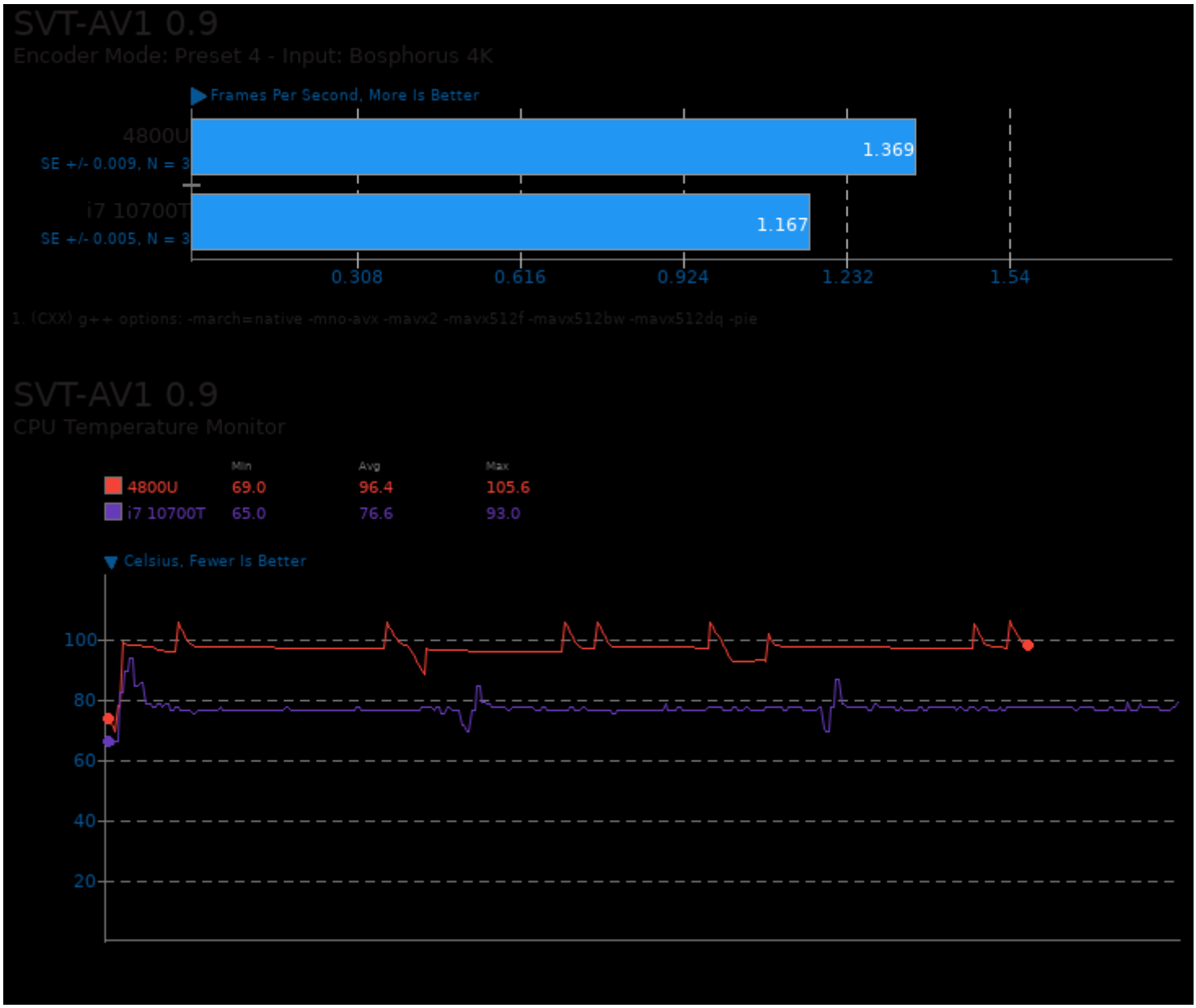


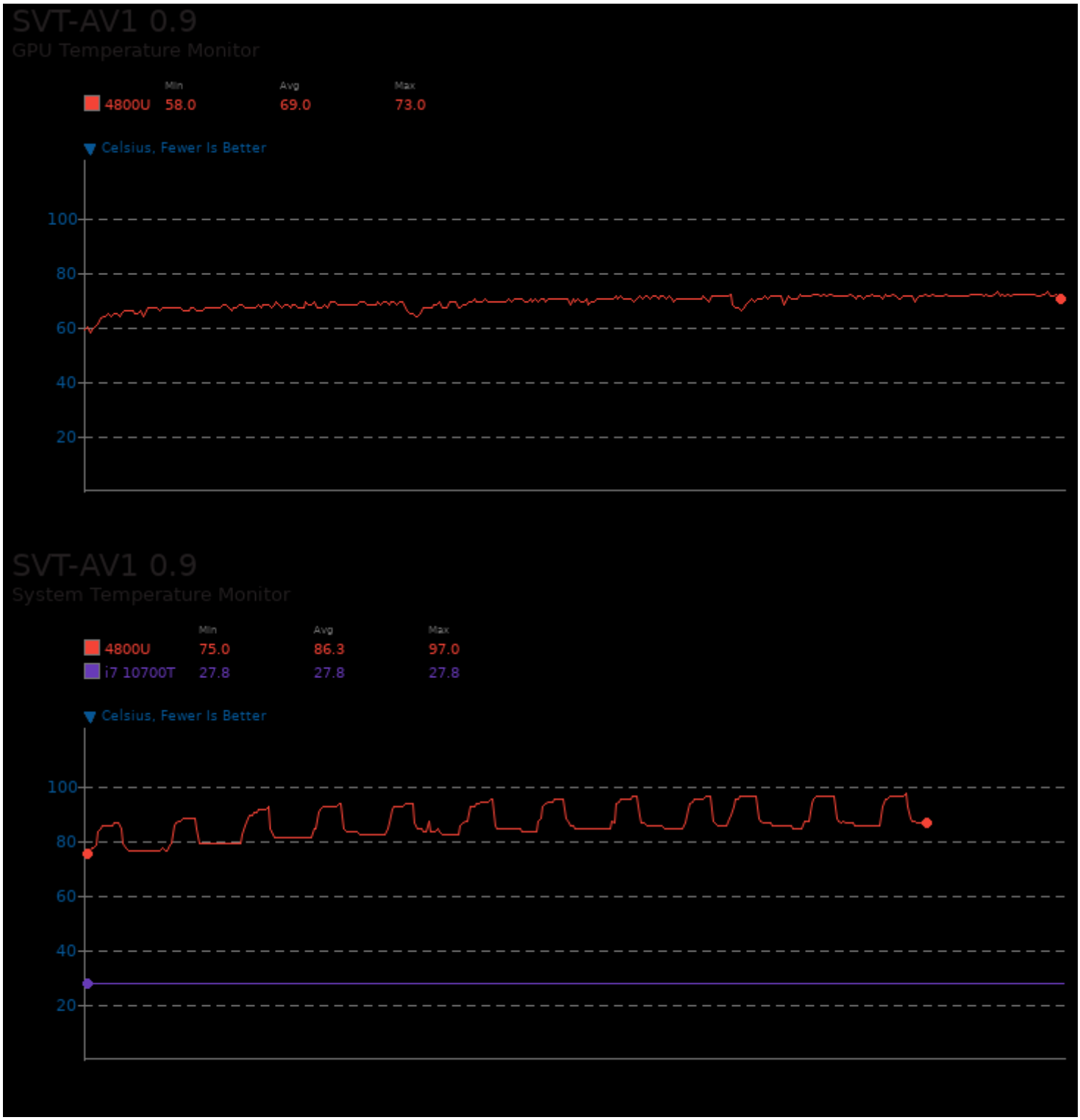

rav1e 0.5
GPU Temperature Monitor
Min
Avg
Max
4800U 59.0 63.7 67.0
Celsius, Fewer Is Better
100
80
60
40
20
rav1e 0.5
System Temperature Monitor
Min
Avg
Max
4800U 76.0 81.0 88.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

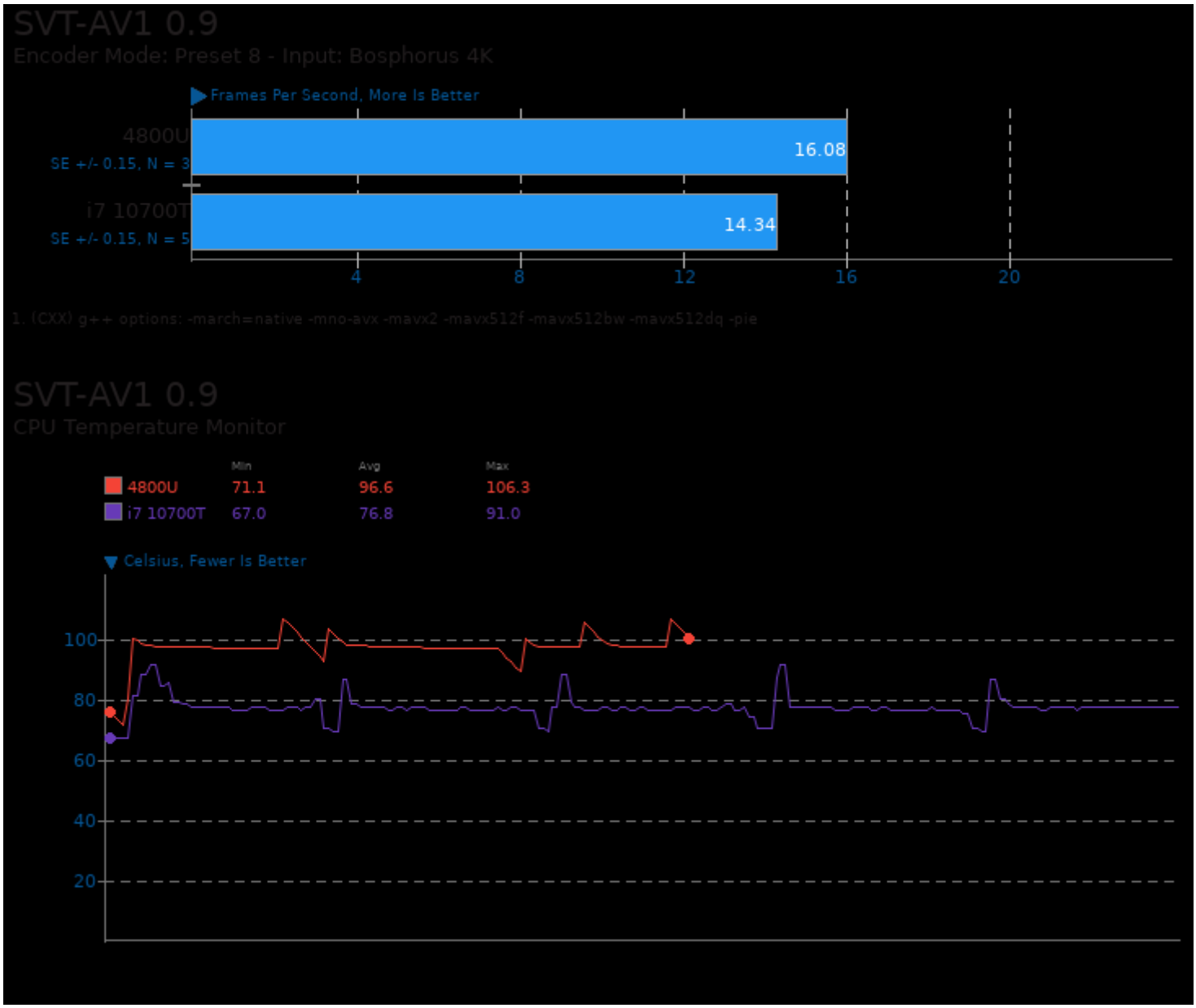

rav1e 0.5
Speed: 10
Frames Per Second, More Is Better
4800U
SE +/- 0.033, N = 3
4.596
i7 10700T
SE +/- 0.045, N = 15
6.709
2
4
6
8
10
rav1e 0.5
CPU Temperature Monitor
Min
Avg
Max
4800U 69.5 96.8 106.4
i7 10700T 65.0 78.2 88.0
Celsius, Fewer Is Better
100
80
60
40
20

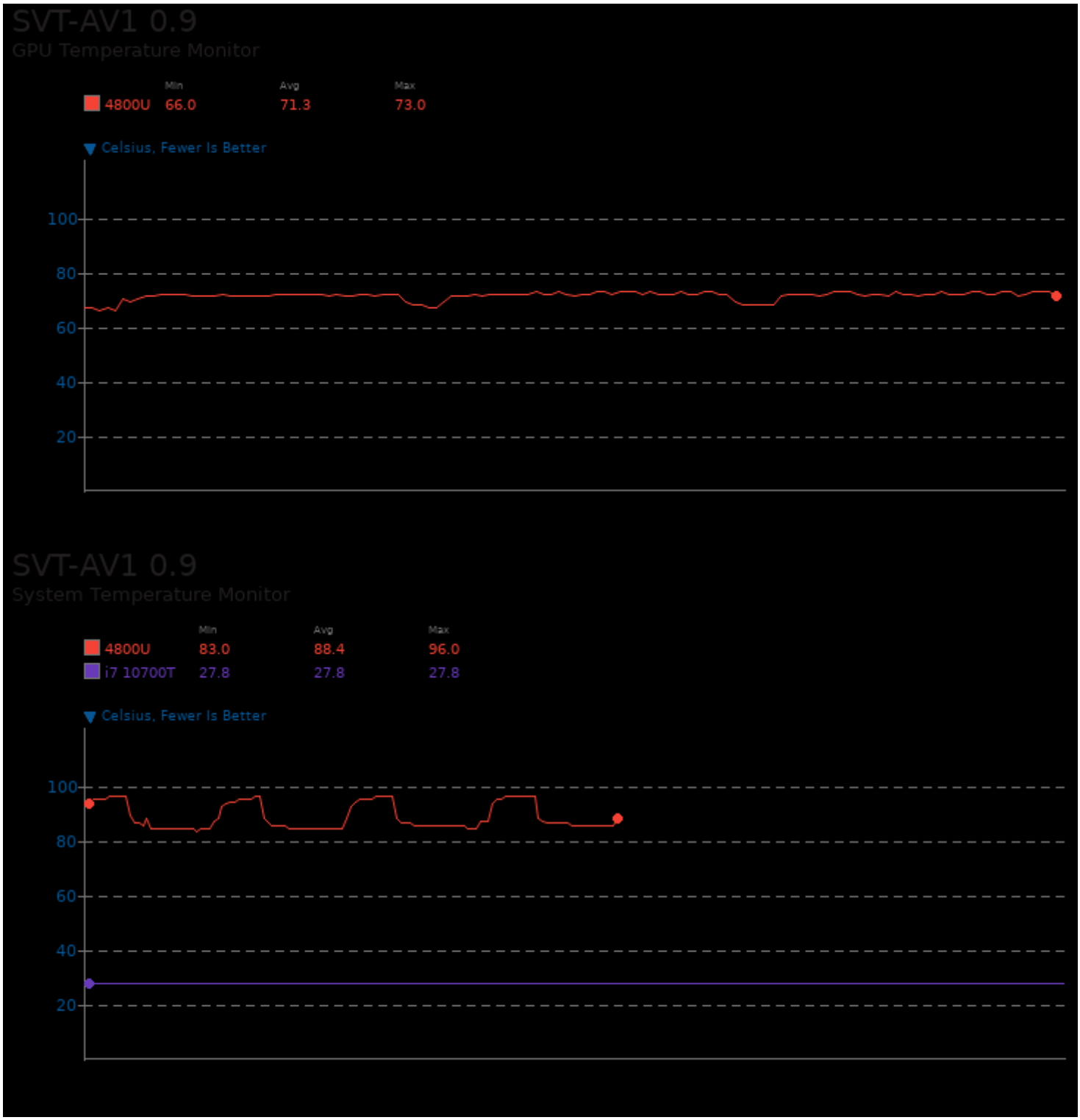
OnLogic Ryzen 4800U

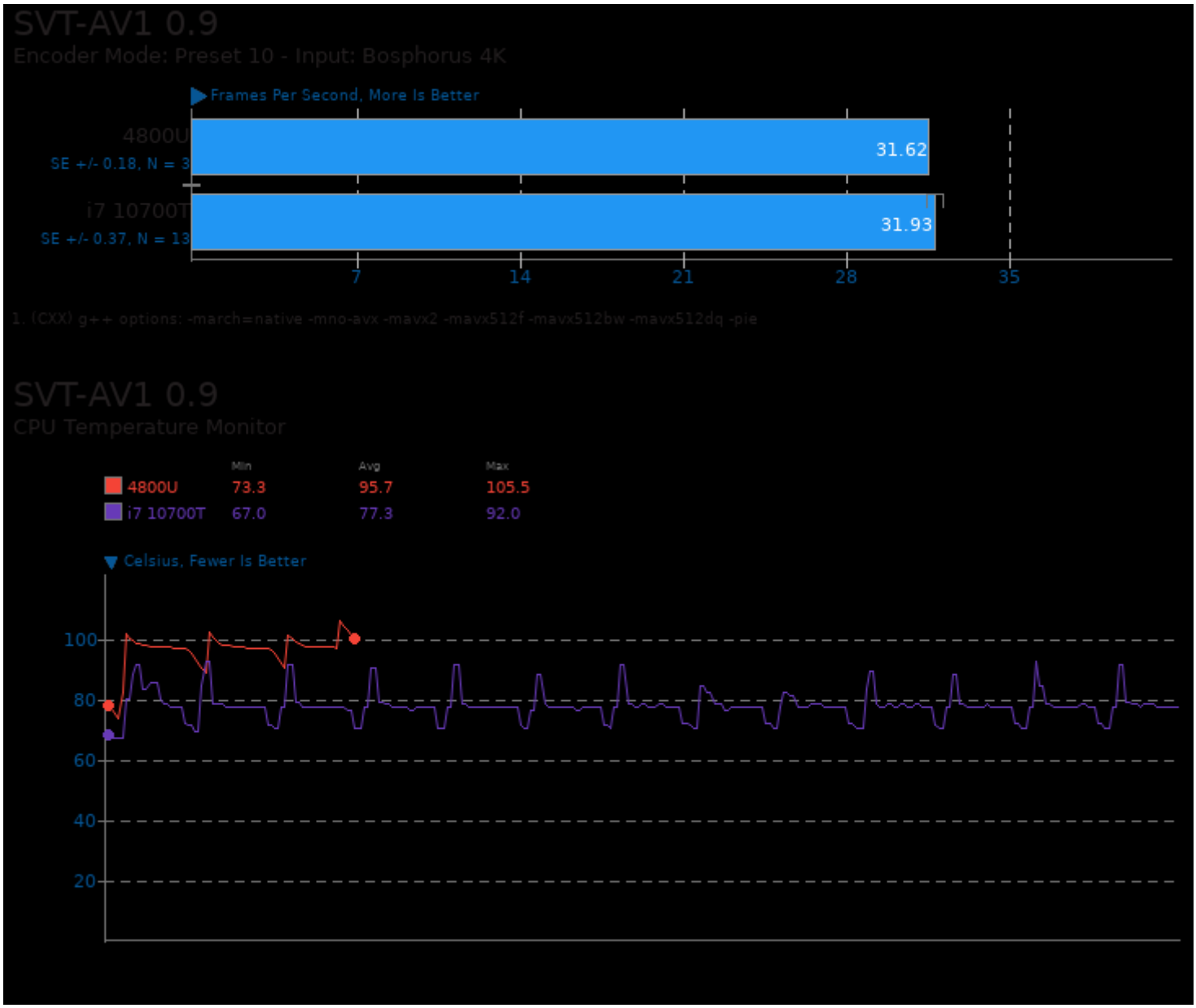


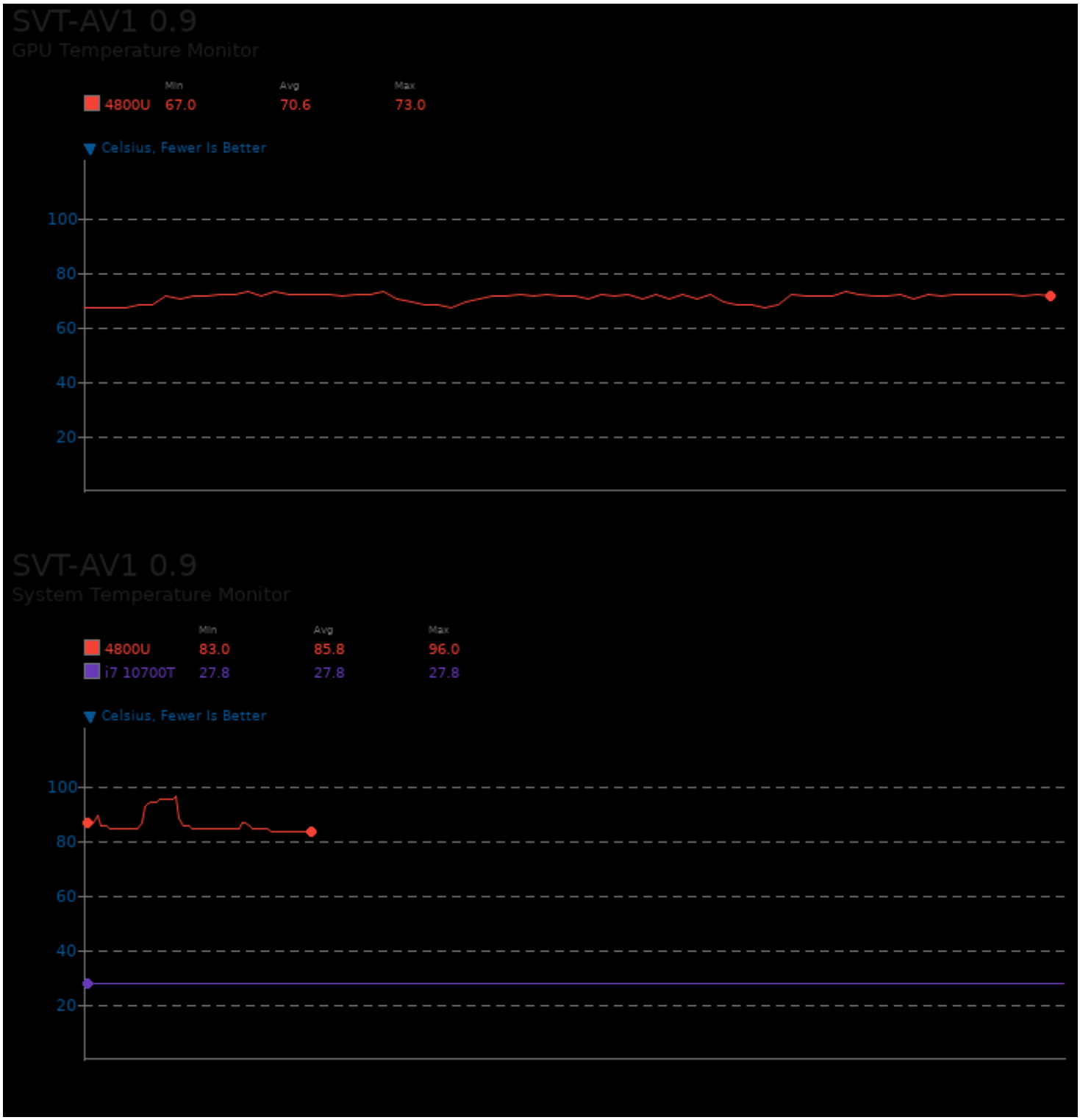

SVT-AV1 0.9
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.009, N = 3
1.369
i7 10700T
SE +/- 0.005, N = 3
1.167
0.308
0.616
0.924
1.232
1.54
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
69.0
96.4
105.6
i7 10700T
65.0
76.6
93.0
Celsius, Fewer Is Better
100
80
60
40
20

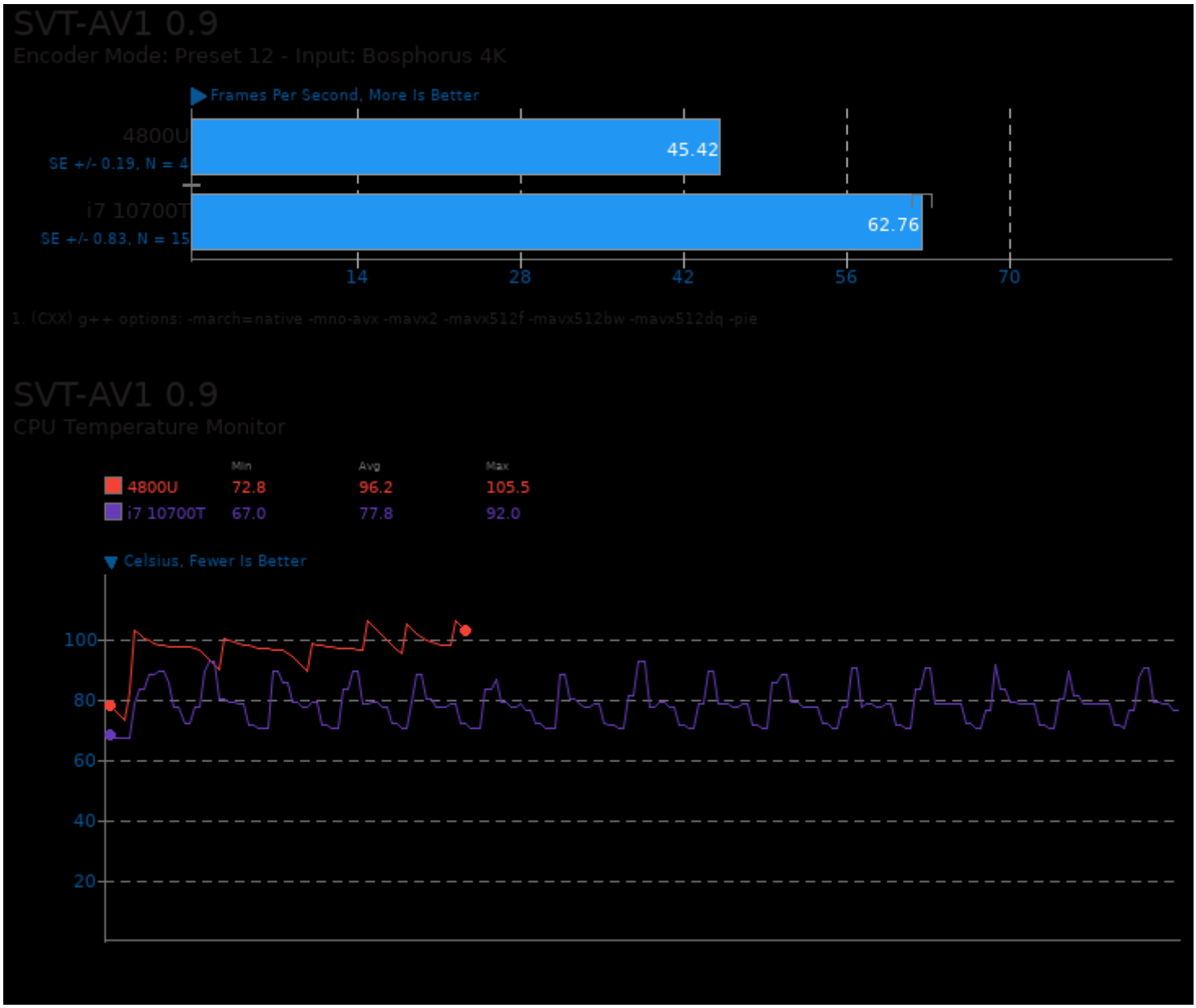

SVT-AV1 0.9
GPU Temperature Monitor
Min
Avg
Max
4800U 58.0 69.0 73.0
Celsius, Fewer Is Better
100
80
60
40
20
SVT-AV1 0.9
System Temperature Monitor
Min
Avg
Max
4800U 75.0 86.3 97.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


SVT-AV1 0.9
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.15, N = 3
16.08
i7 10700T
SE +/- 0.15, N = 5
14.34
4
8
12
16
20
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
71.1
96.6
106.3
i7 10700T
67.0
76.8
91.0
Celsius, Fewer Is Better
100
80
60
40
20

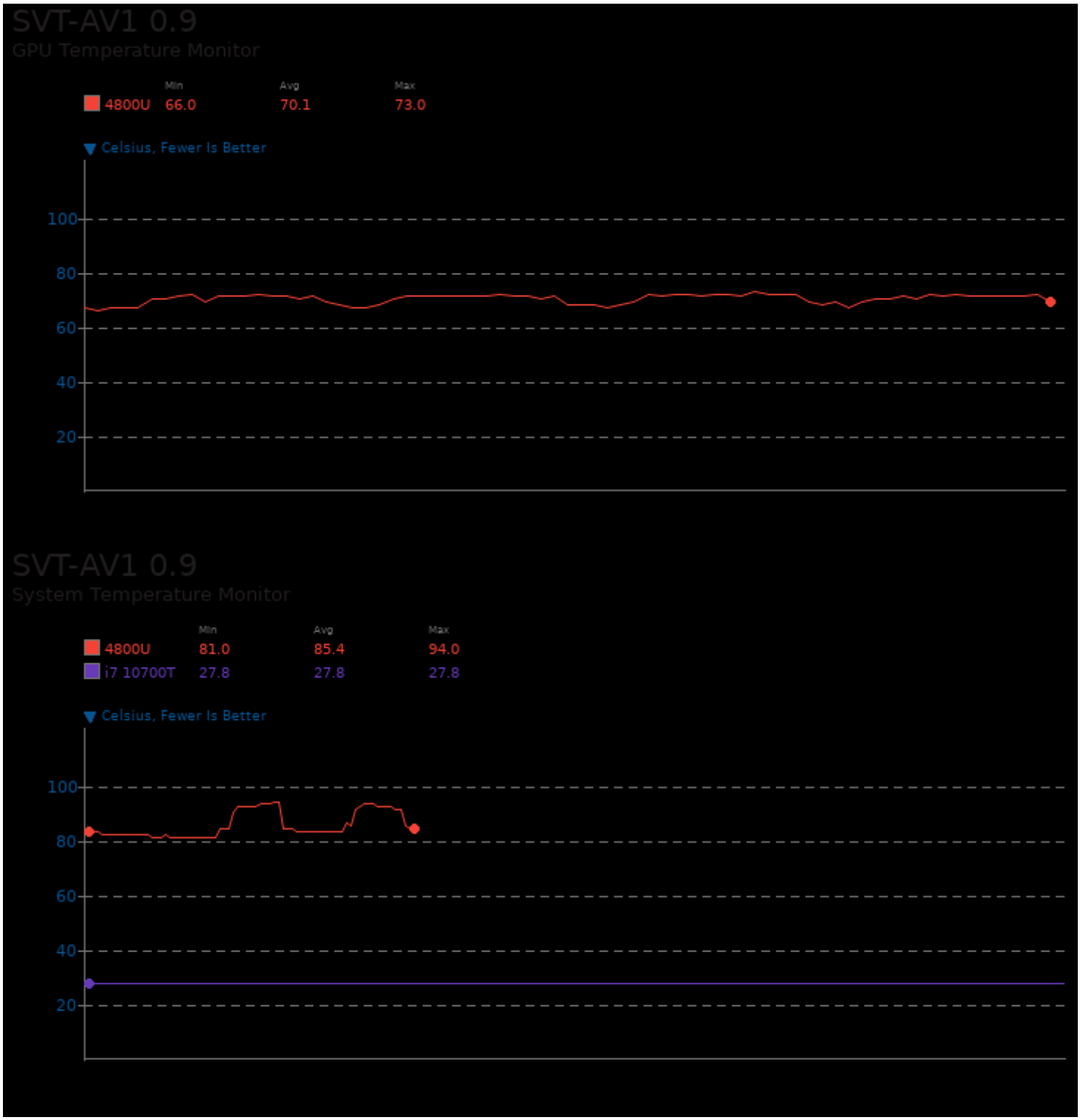

SVT-AV1 0.9
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 71.3 73.0
Celsius, Fewer Is Better
100
80
60
40
20
SVT-AV1 0.9
System Temperature Monitor
Min
Avg
Max
4800U 83.0 88.4 96.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

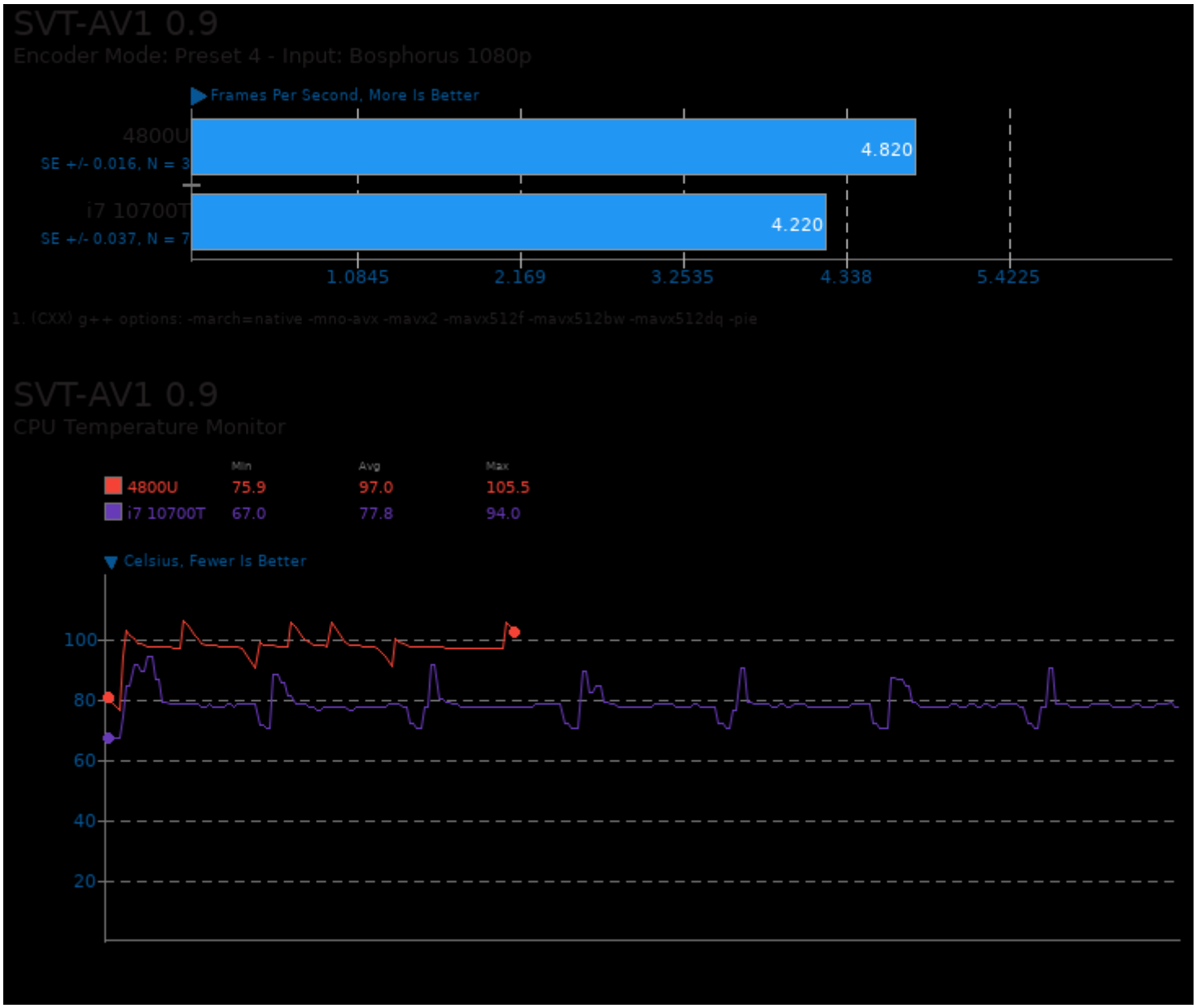

SVT-AV1 0.9
Encoder Mode: Preset 10 - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.18, N = 3
31.62
i7 10700T
SE +/- 0.37, N = 13
31.93
7
14
21
28
35
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
73.3
95.7
105.5
i7 10700T
67.0
77.3
92.0
Celsius, Fewer Is Better
100
80
60
40
20

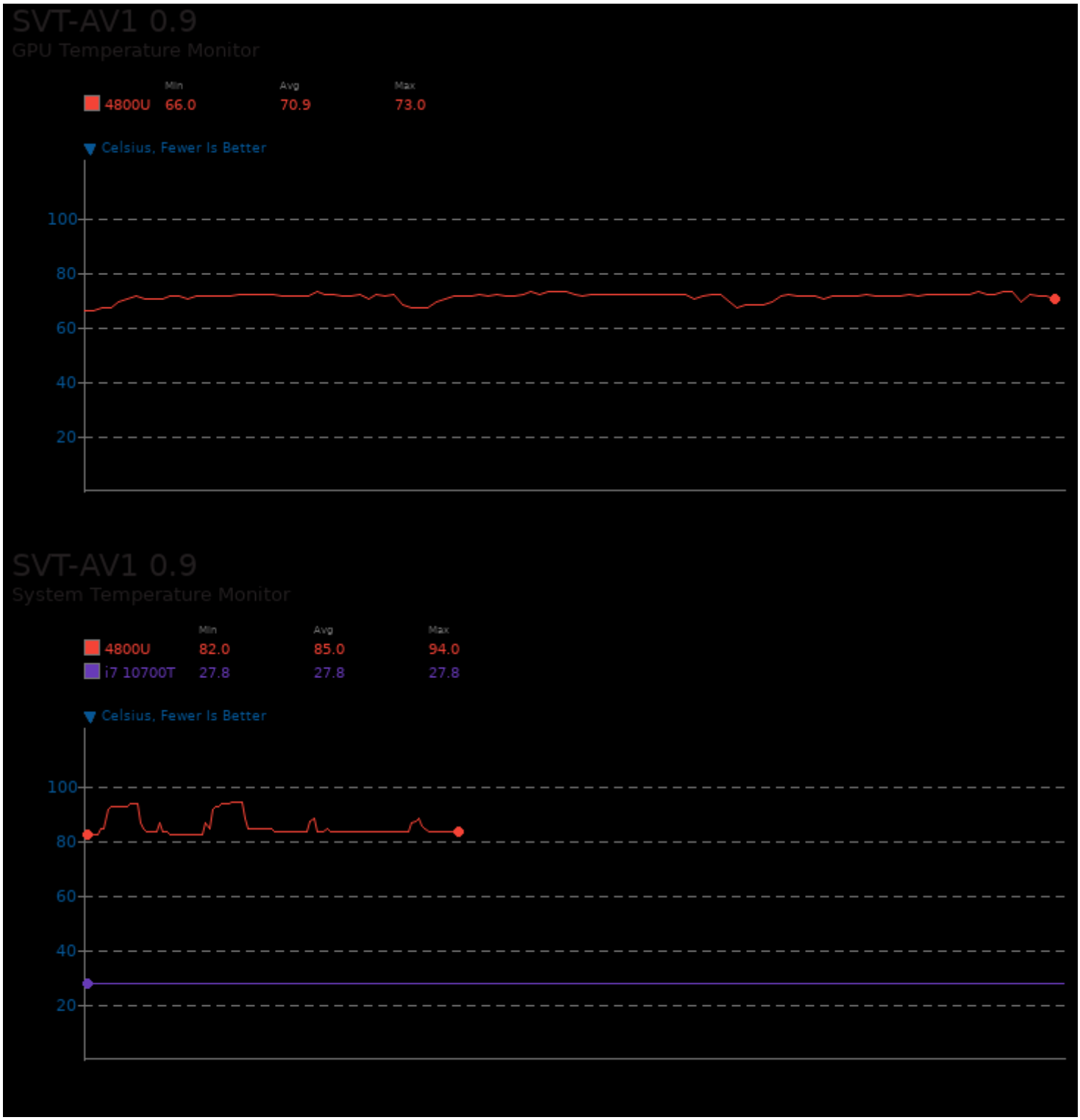

SVT-AV1 0.9
GPU Temperature Monitor
Min
Avg
Max
4800U 67.0 70.6 73.0
Celsius, Fewer Is Better
100
80
60
40
20
SVT-AV1 0.9
System Temperature Monitor
Min
Avg
Max
4800U 83.0 85.8 96.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

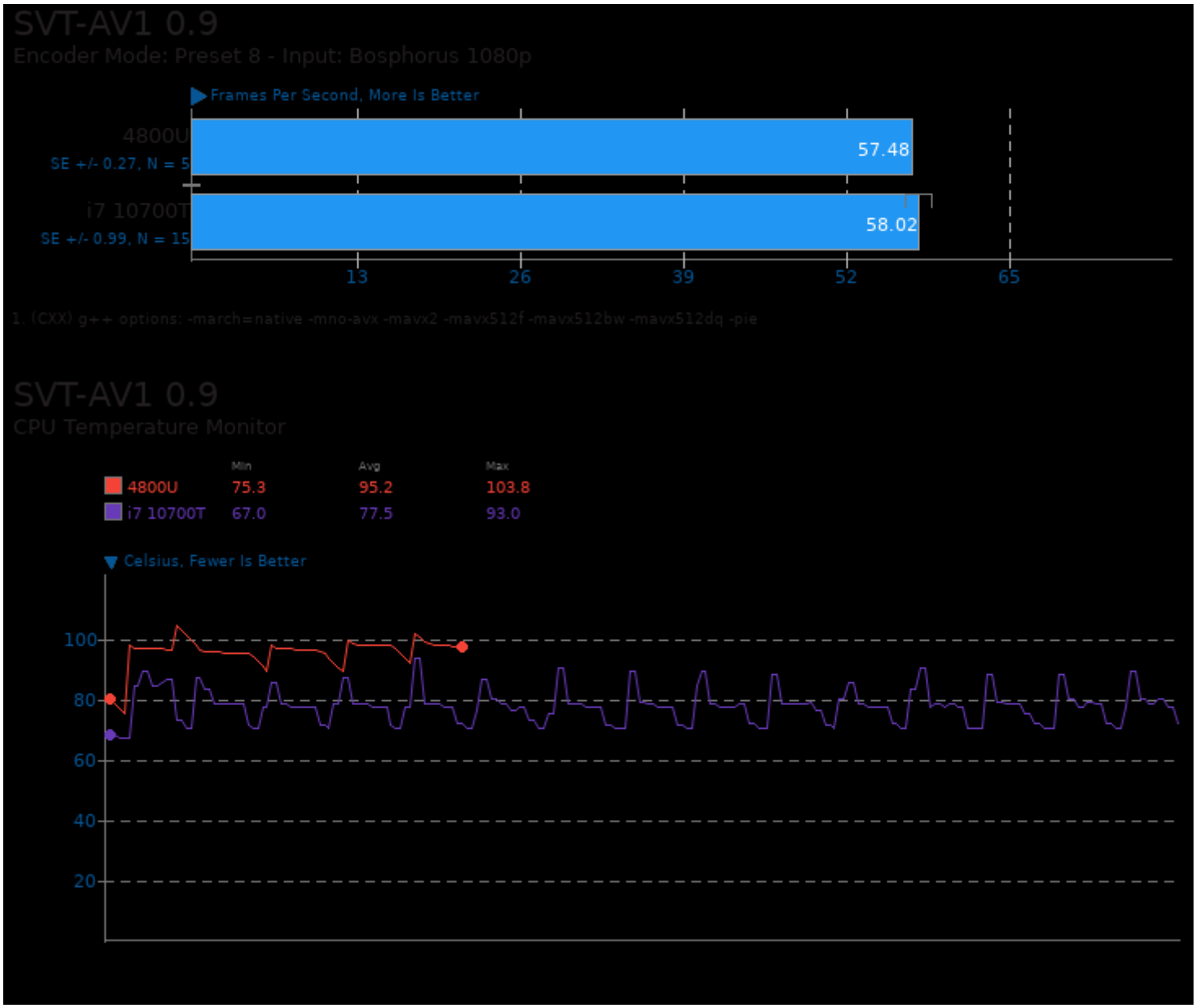

SVT-AV1 0.9
Encoder Mode: Preset 12 - Input: Bosphorus 4K
Frames Per Second, More Is Better
4800U
SE +/- 0.19, N = 4
45.42
i7 10700T
SE +/- 0.83, N = 15
62.76
14
28
42
56
70
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
72.8
96.2
105.5
i7 10700T
67.0
77.8
92.0
Celsius, Fewer Is Better
100
80
60
40
20

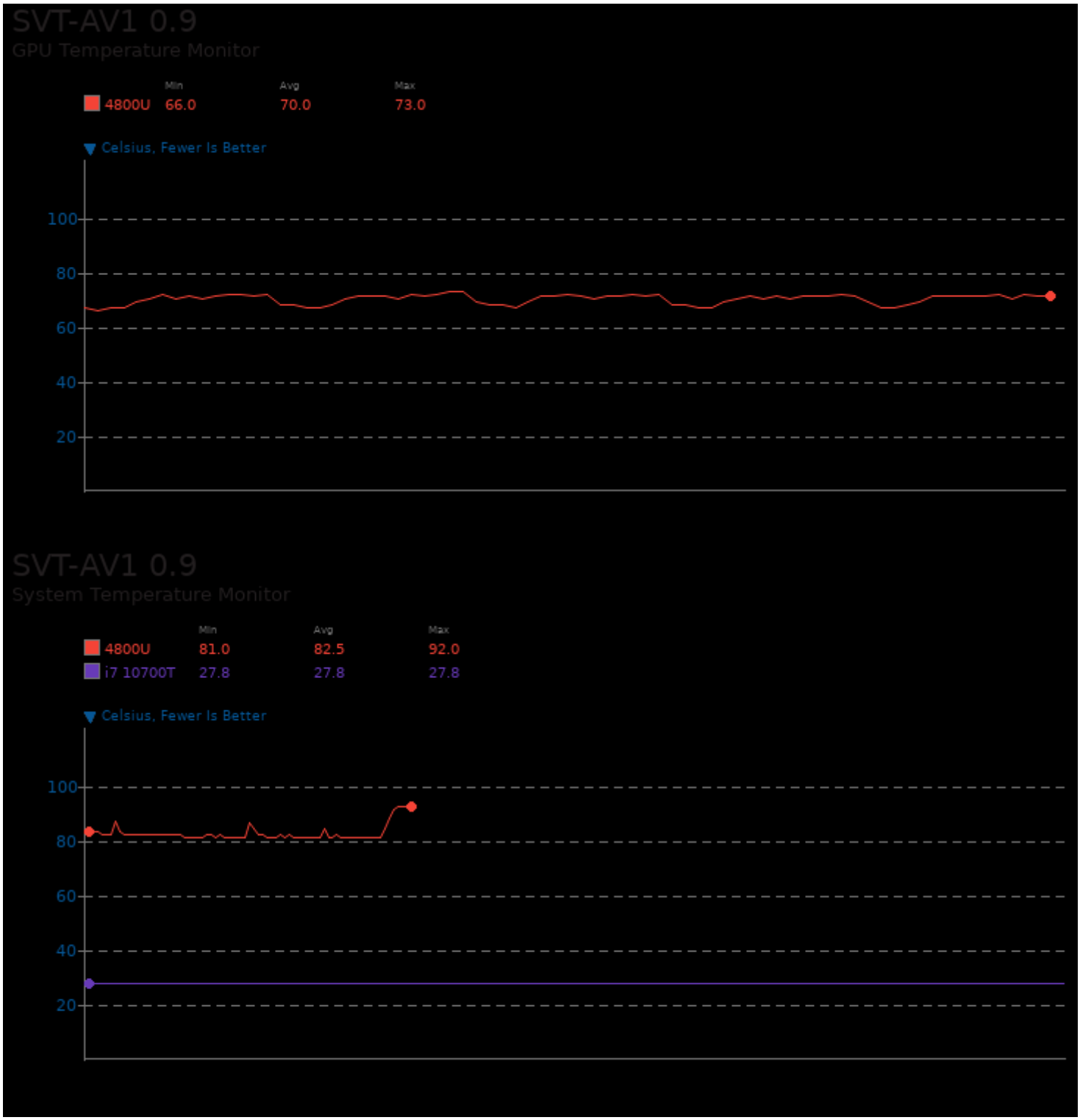
OnLogic Ryzen 4800U

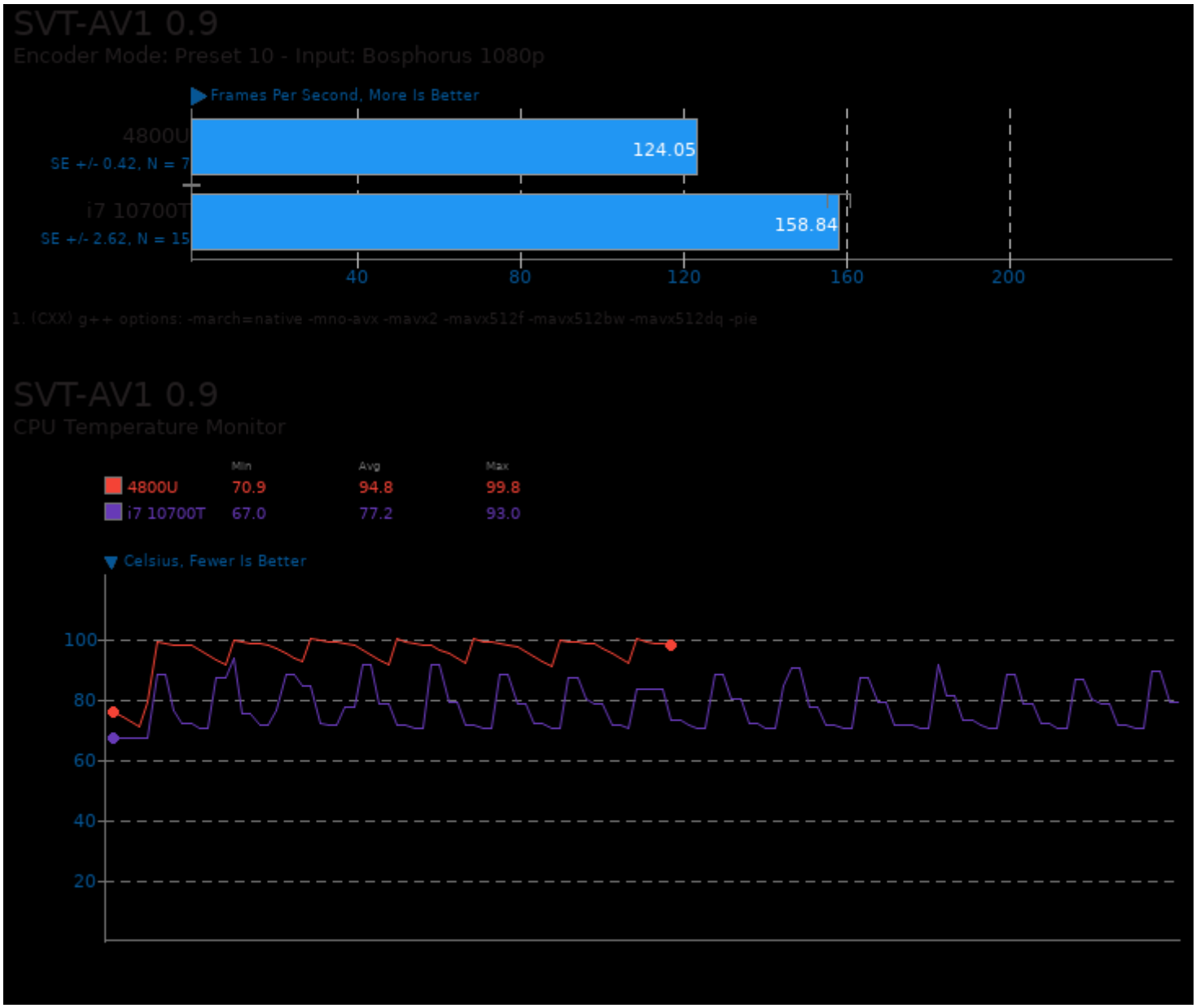



SVT-AV1 0.9
Encoder Mode: Preset 4 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.016, N = 3
4.820
i7 10700T
SE +/- 0.037, N = 7
4.220
1.0845
2.169
3.2535
4.338
5.4225
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
75.9
97.0
105.5
i7 10700T
67.0
77.8
94.0
Celsius, Fewer Is Better
100
80
60
40
20

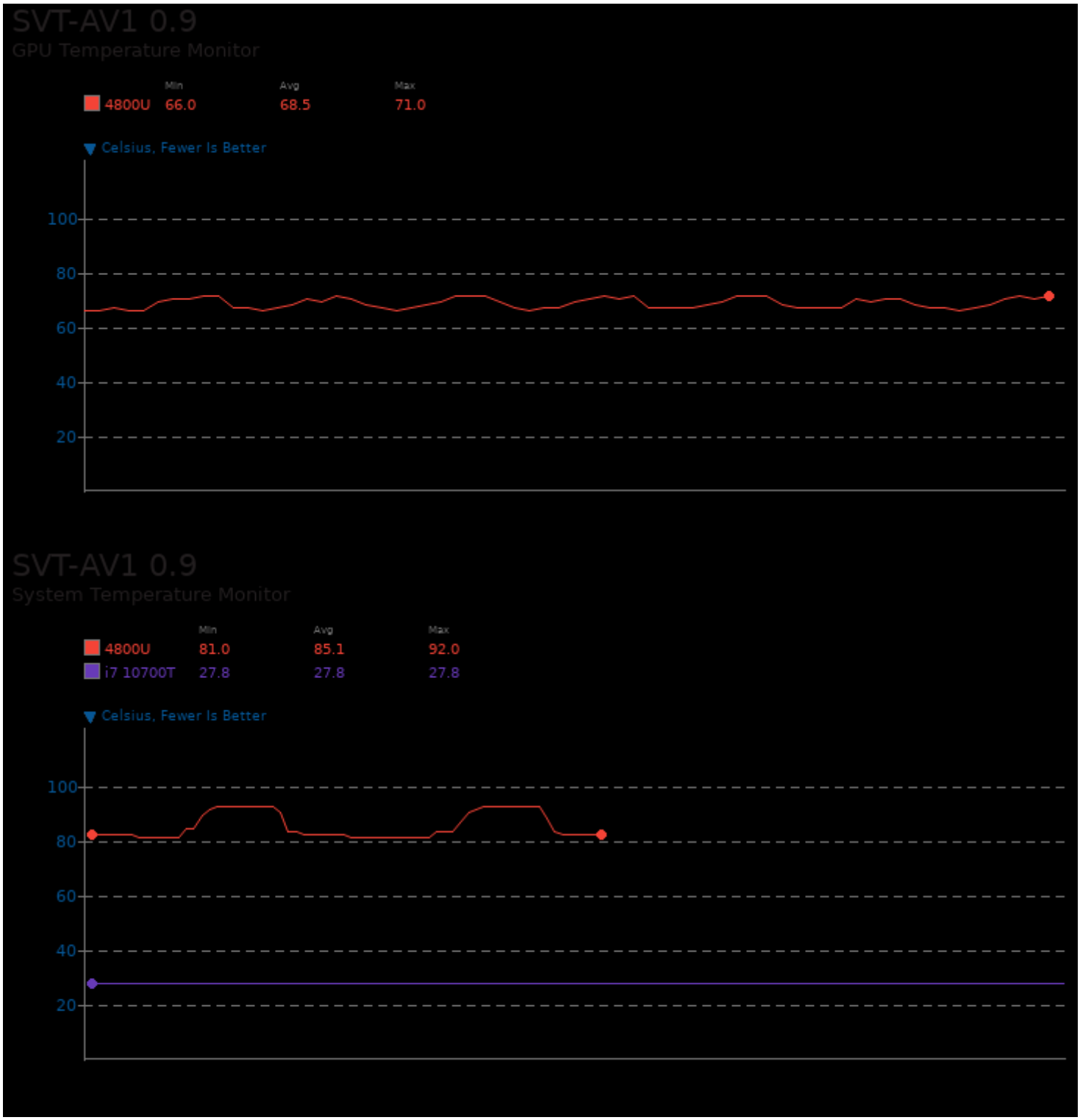

SVT-AV1 0.9
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 70.9 73.0
Celsius, Fewer Is Better
100
80
60
40
20
SVT-AV1 0.9
System Temperature Monitor
Min
Avg
Max
4800U 82.0 85.0 94.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

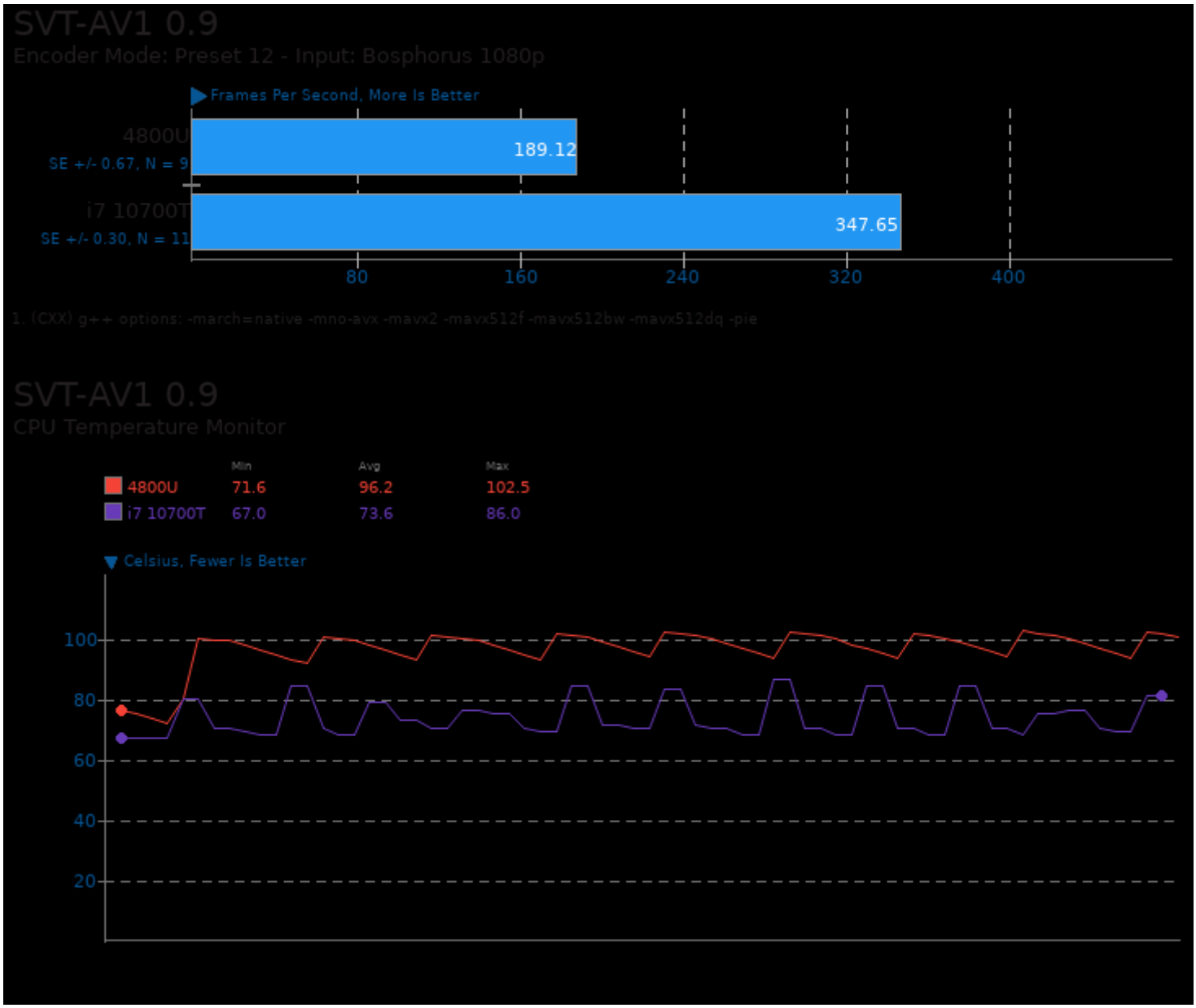

SVT-AV1 0.9
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.27, N = 5
57.48
i7 10700T
SE +/- 0.99, N = 15
58.02
13
26
39
52
65
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
75.3
95.2
103.8
i7 10700T
67.0
77.5
93.0
Celsius, Fewer Is Better
100
80
60
40
20


SVT-AV1 0.9
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 70.0 73.0
Celsius, Fewer Is Better
100
80
60
40
20
SVT-AV1 0.9
System Temperature Monitor
Min
Avg
Max
4800U 81.0 82.5 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

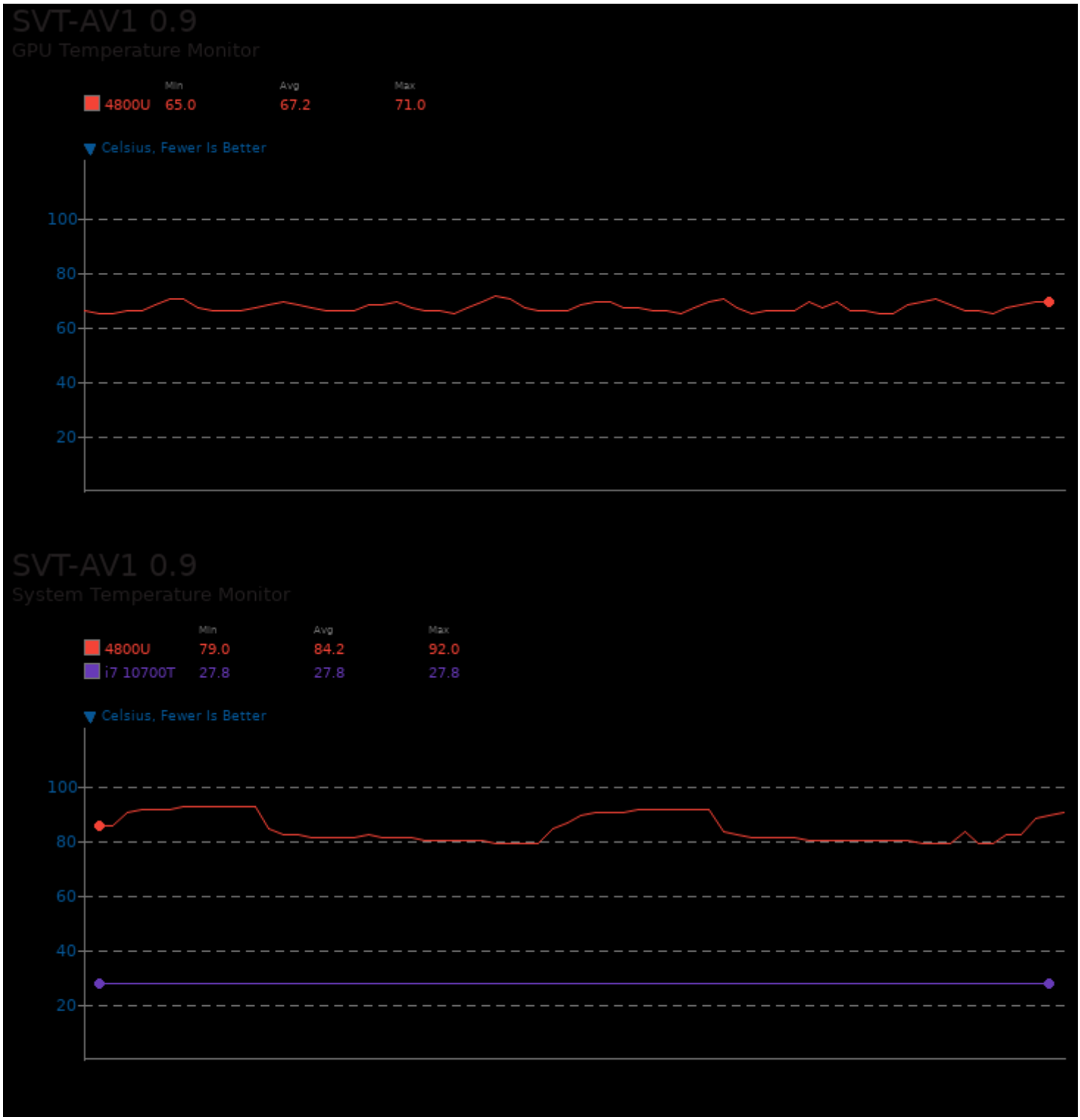

SVT-AV1 0.9
Encoder Mode: Preset 10 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.42, N = 7
124.05
i7 10700T
SE +/- 2.62, N = 15
158.84
40
80
120
160
200
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U
70.9
94.8
99.8
i7 10700T
67.0
77.2
93.0
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

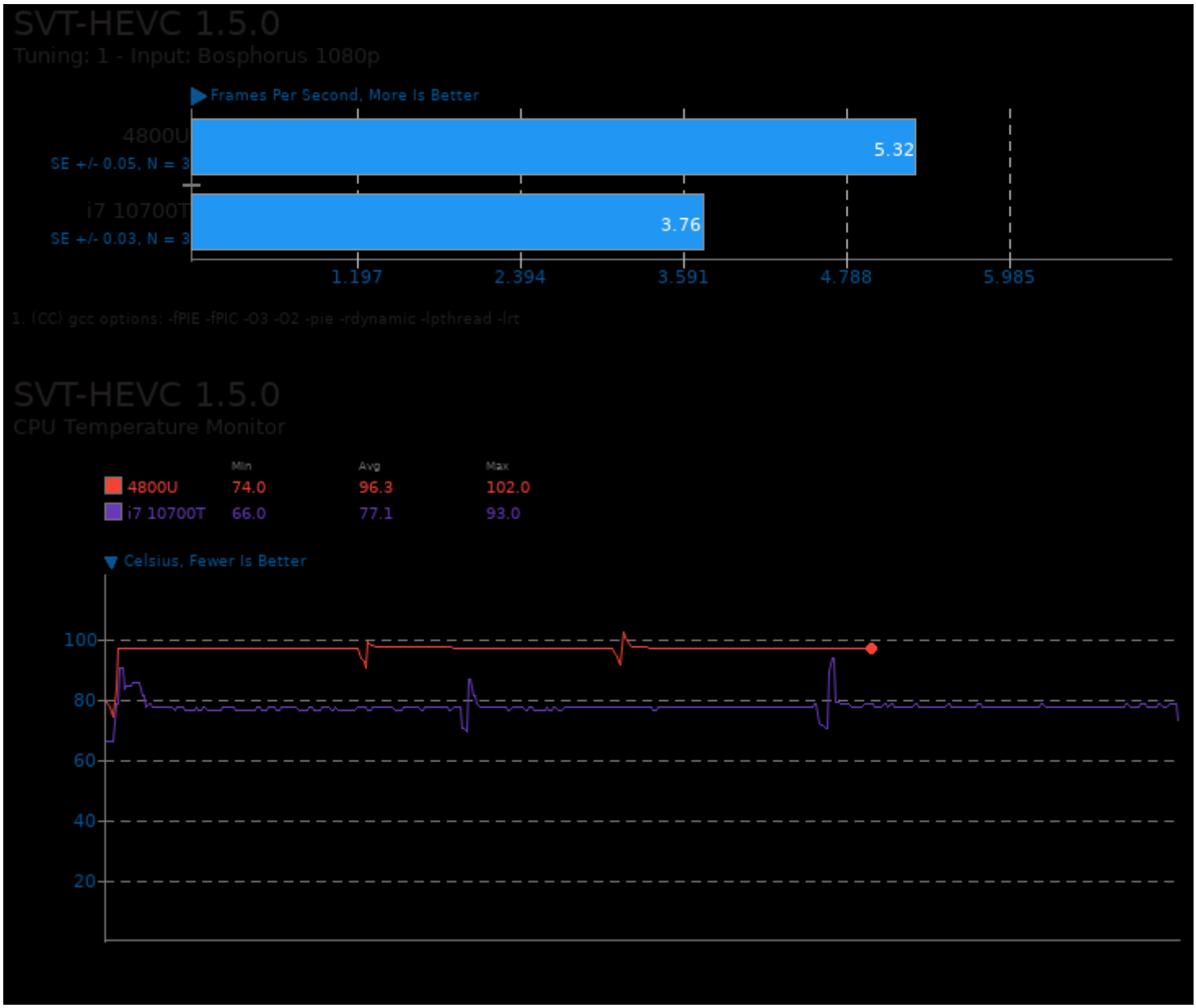


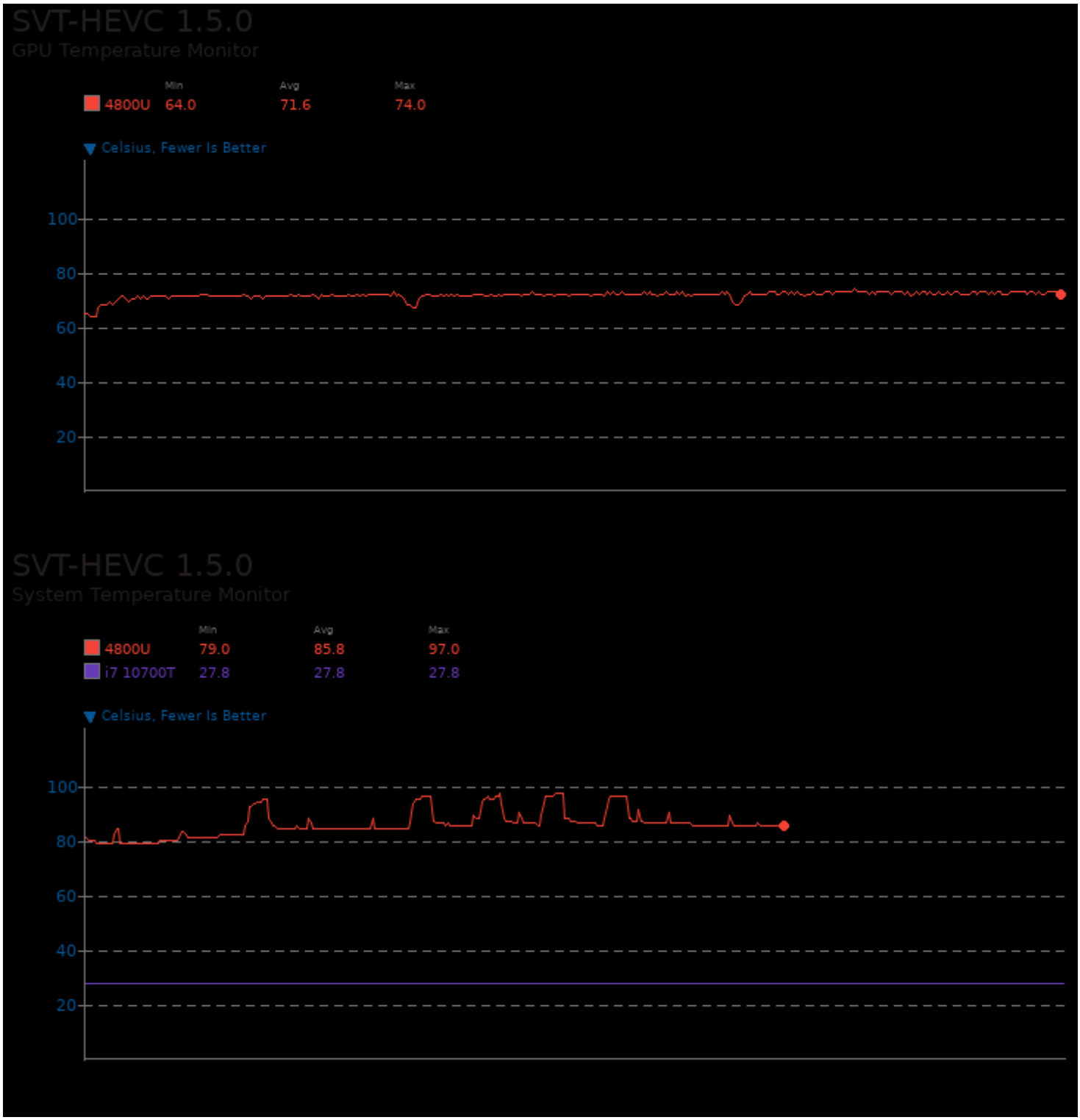

SVT-AV1 0.9
Encoder Mode: Preset 12 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.67, N = 9
189.12
i7 10700T
SE +/- 0.30, N = 11
347.65
80
160
240
320
400
1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.9
CPU Temperature Monitor
Min
Avg
Max
4800U 71.6 96.2 102.5
i7 10700T 67.0 73.6 86.0
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

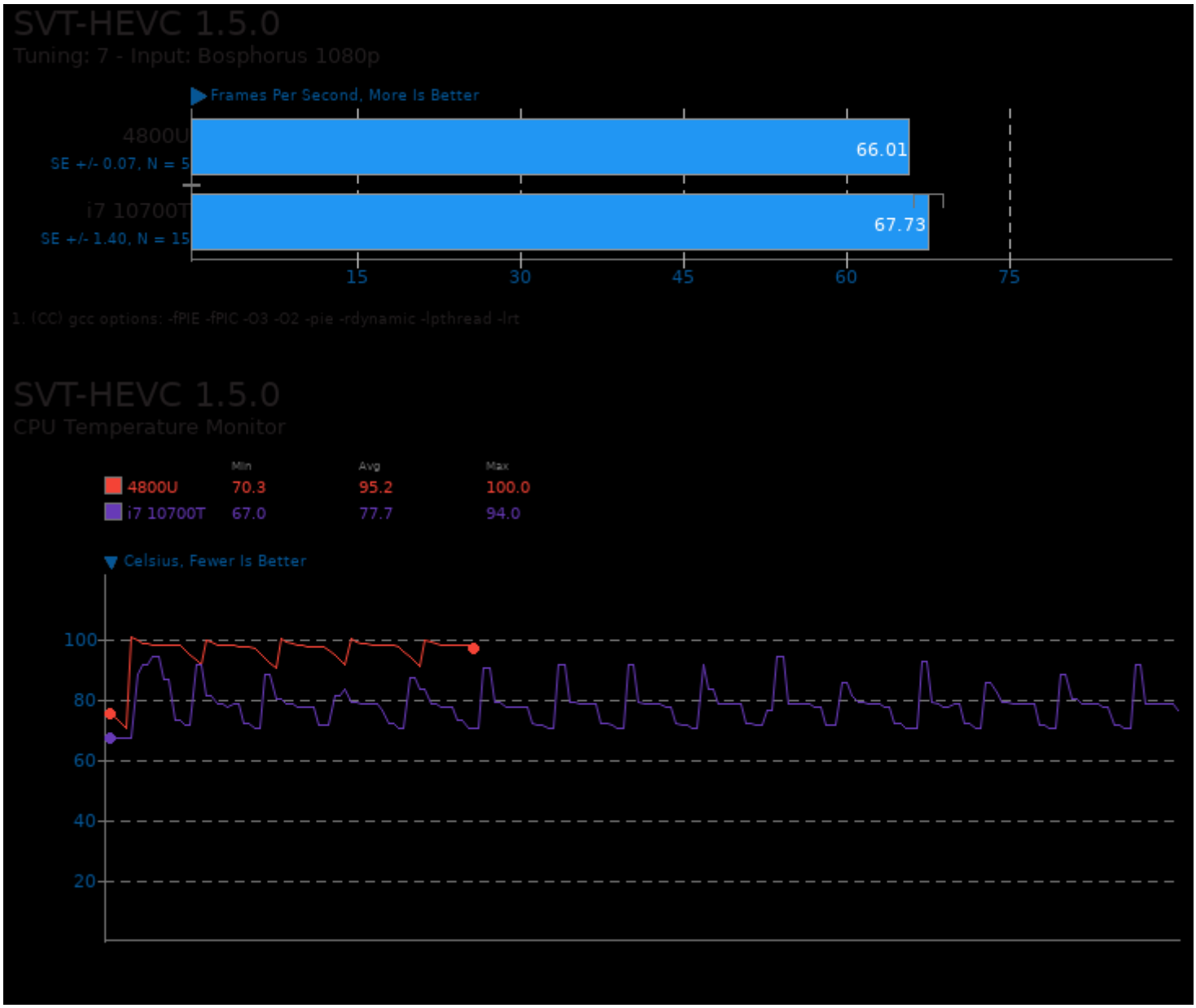


OnLogic Ryzen 4800U

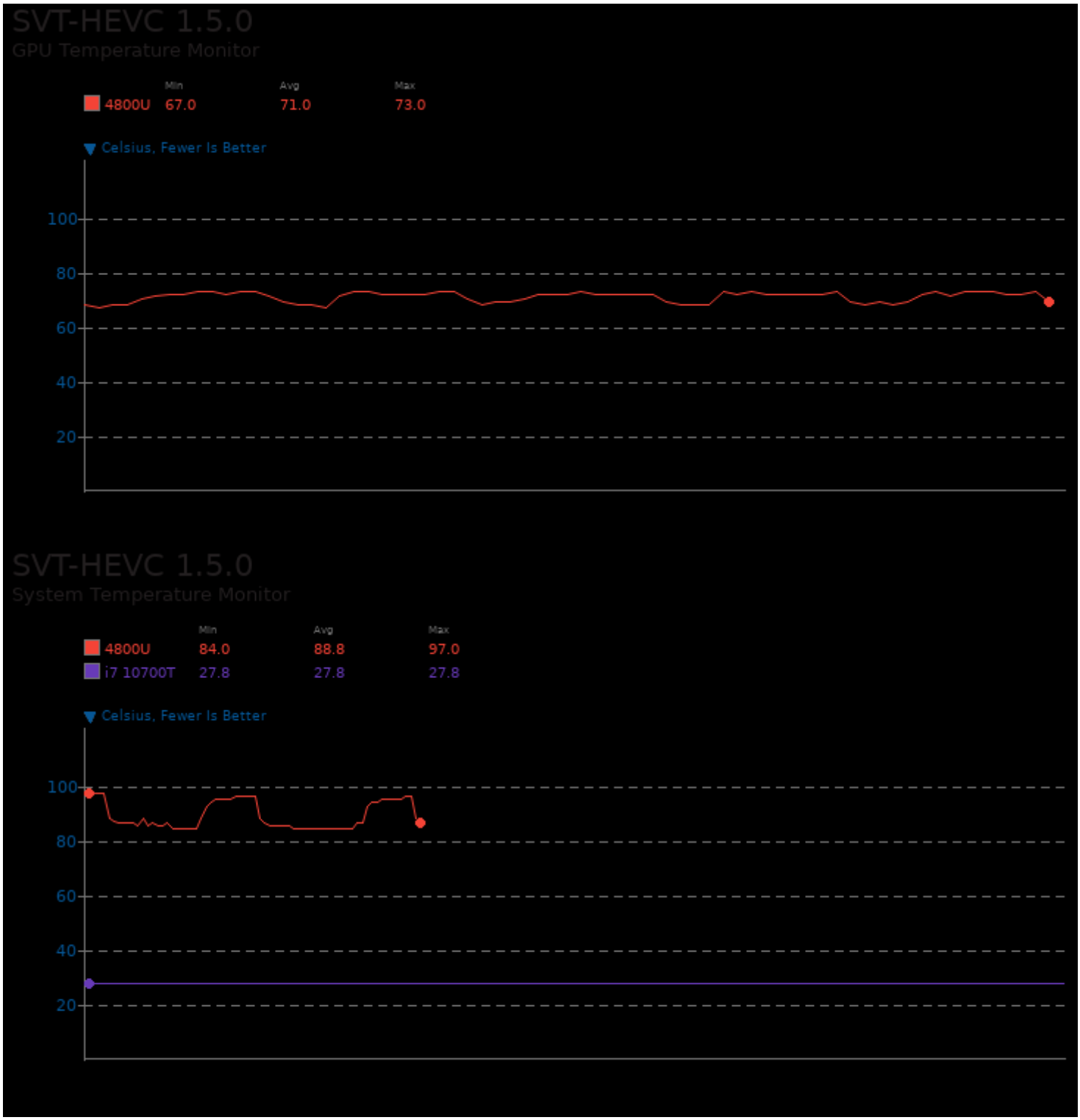



SVT-HEVC 1.5.0
GPU Temperature Monitor
Min
Avg
Max
4800U 64.0 71.6 74.0
Celsius, Fewer Is Better
100
80
60
40
20
SVT-HEVC 1.5.0
System Temperature Monitor
Min
Avg
Max
4800U 79.0 85.8 97.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

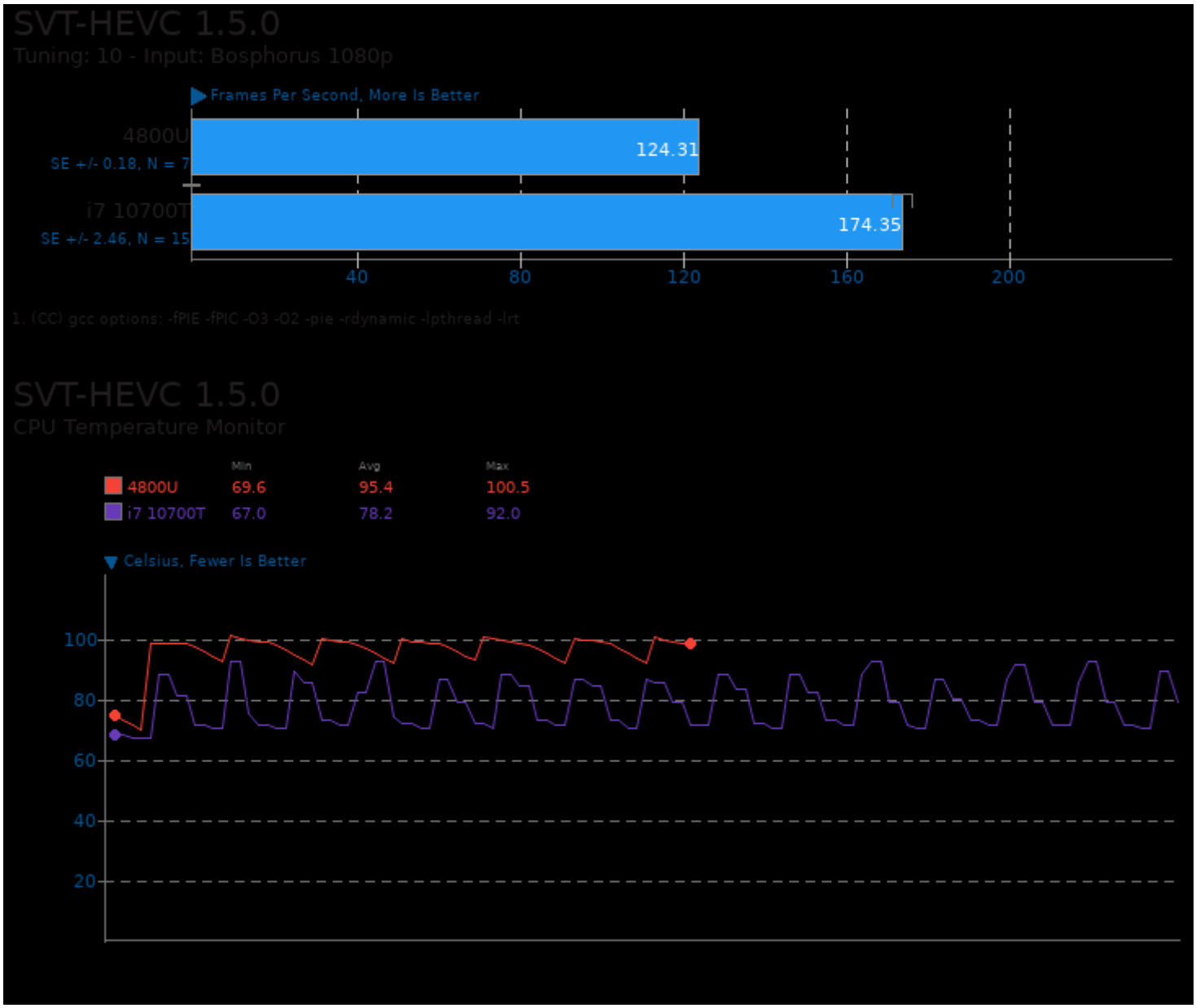
OnLogic Ryzen 4800U



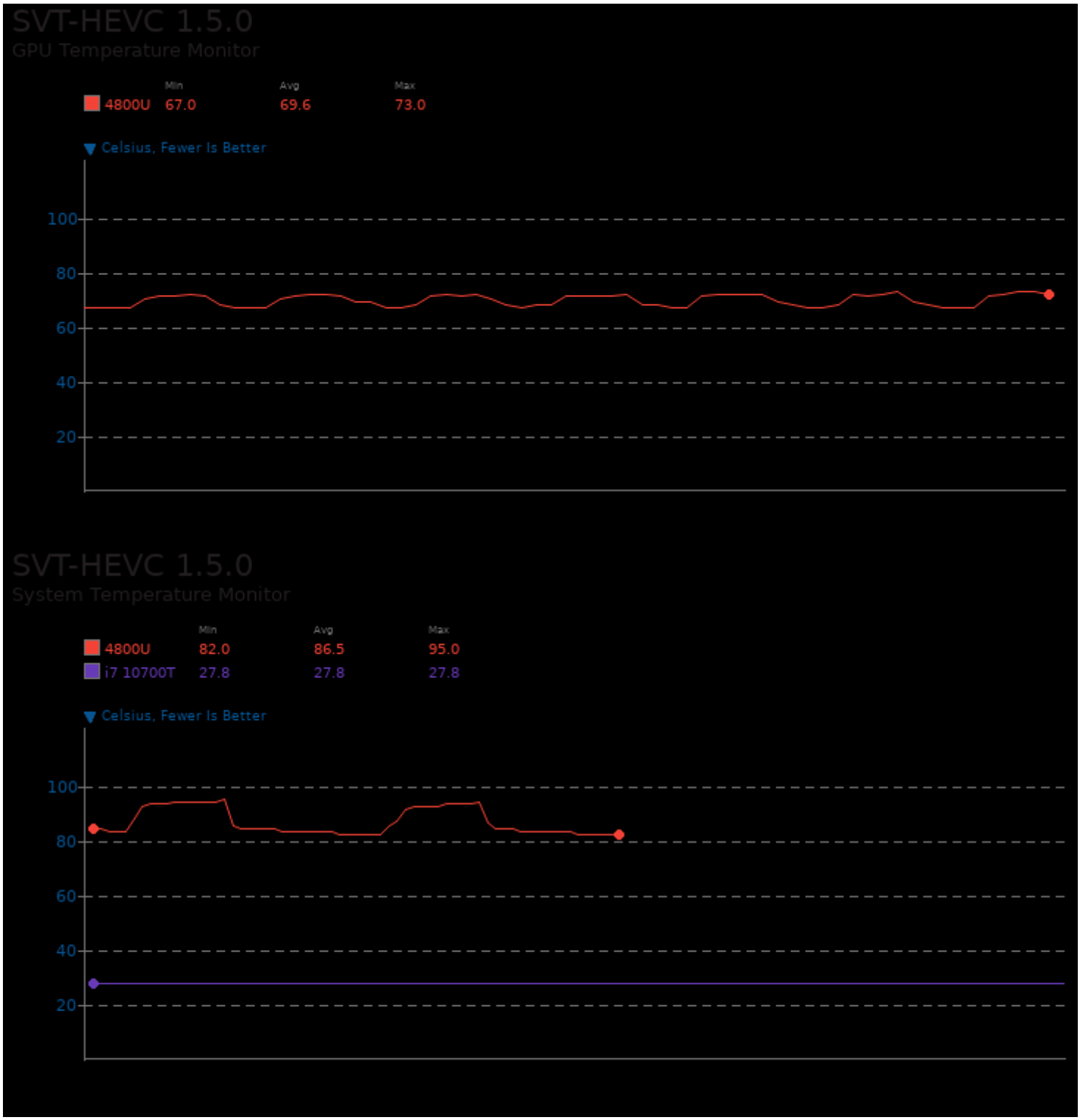
OnLogic Ryzen 4800U

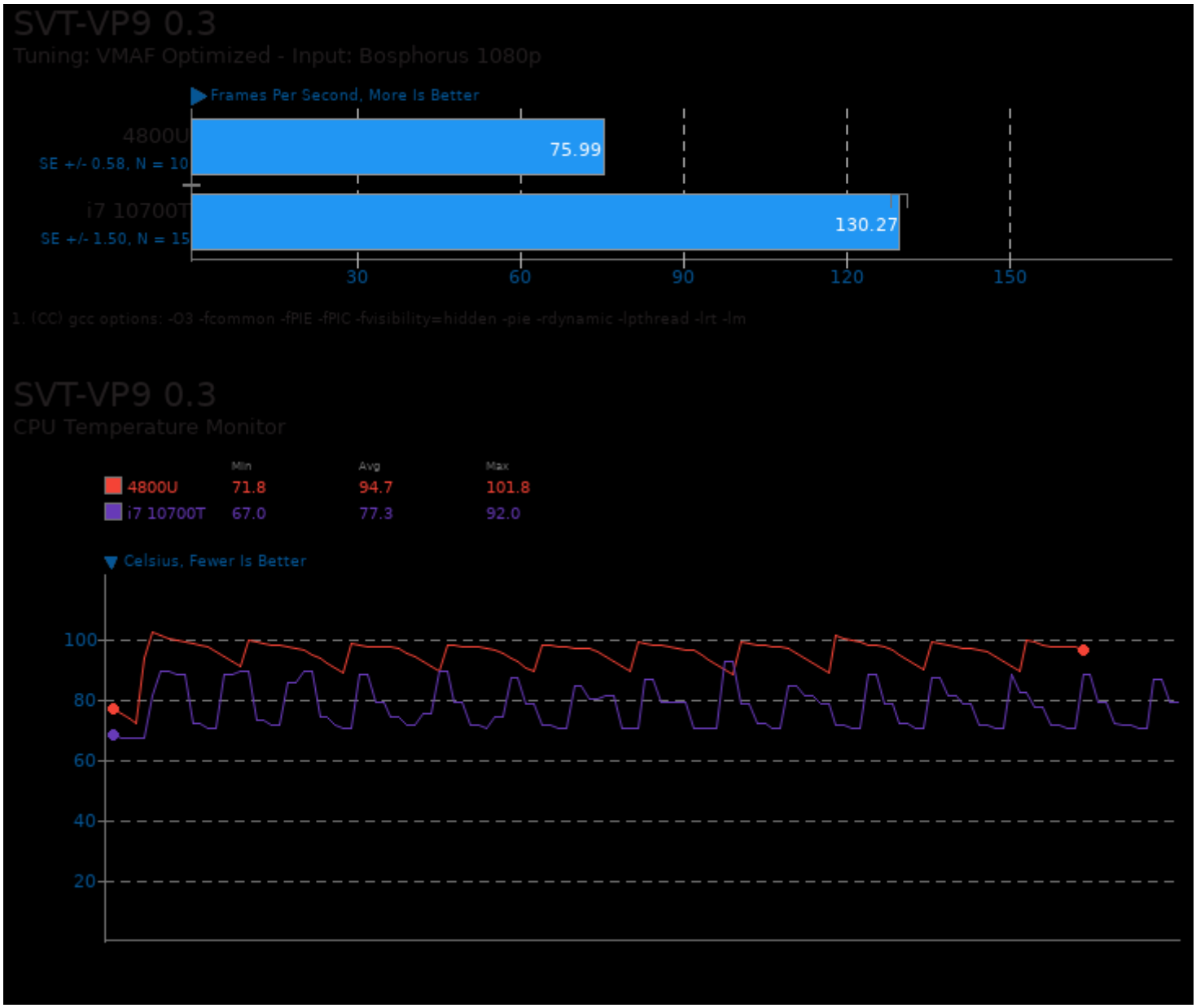


OnLogic Ryzen 4800U

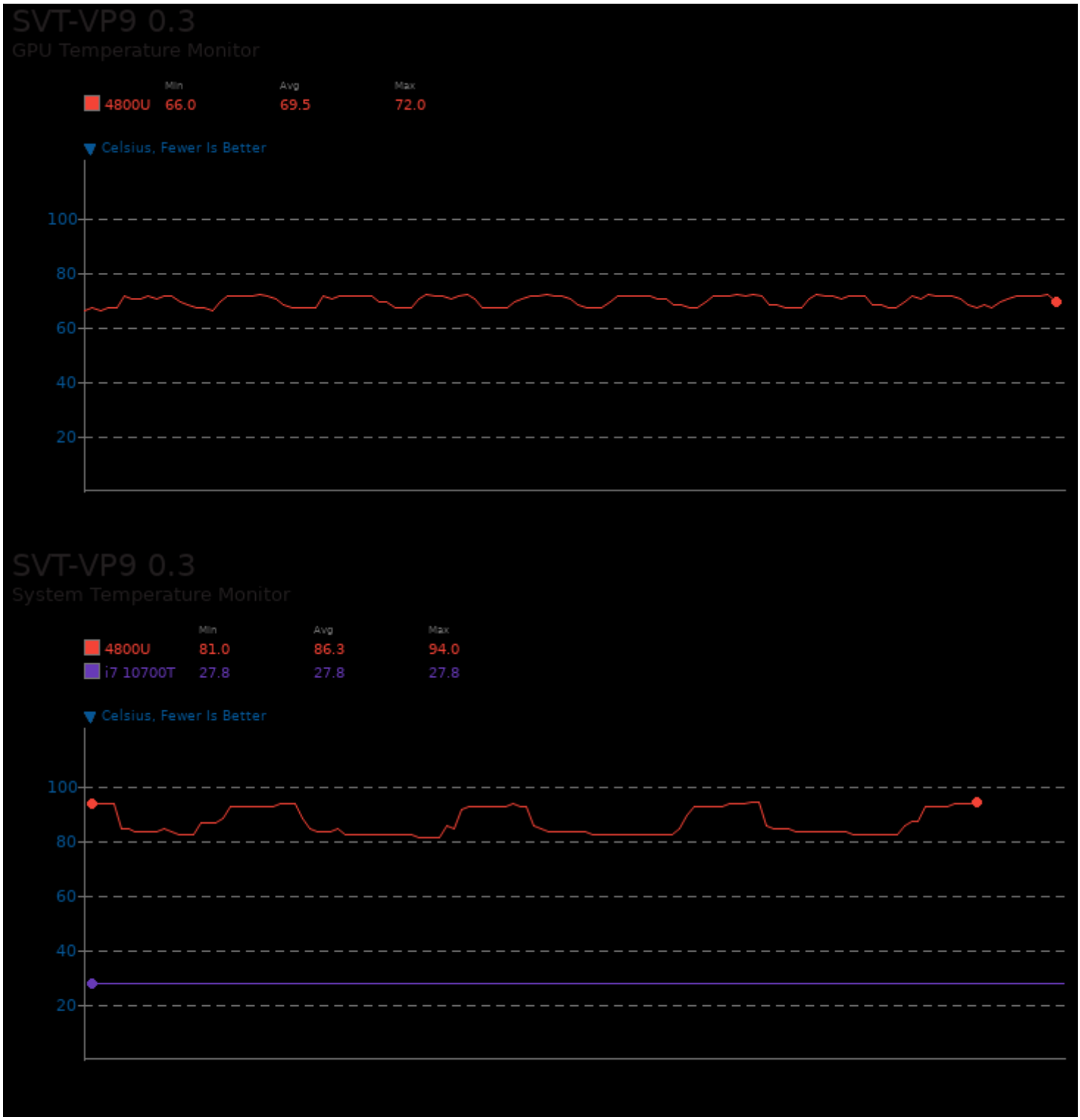


OnLogic Ryzen 4800U

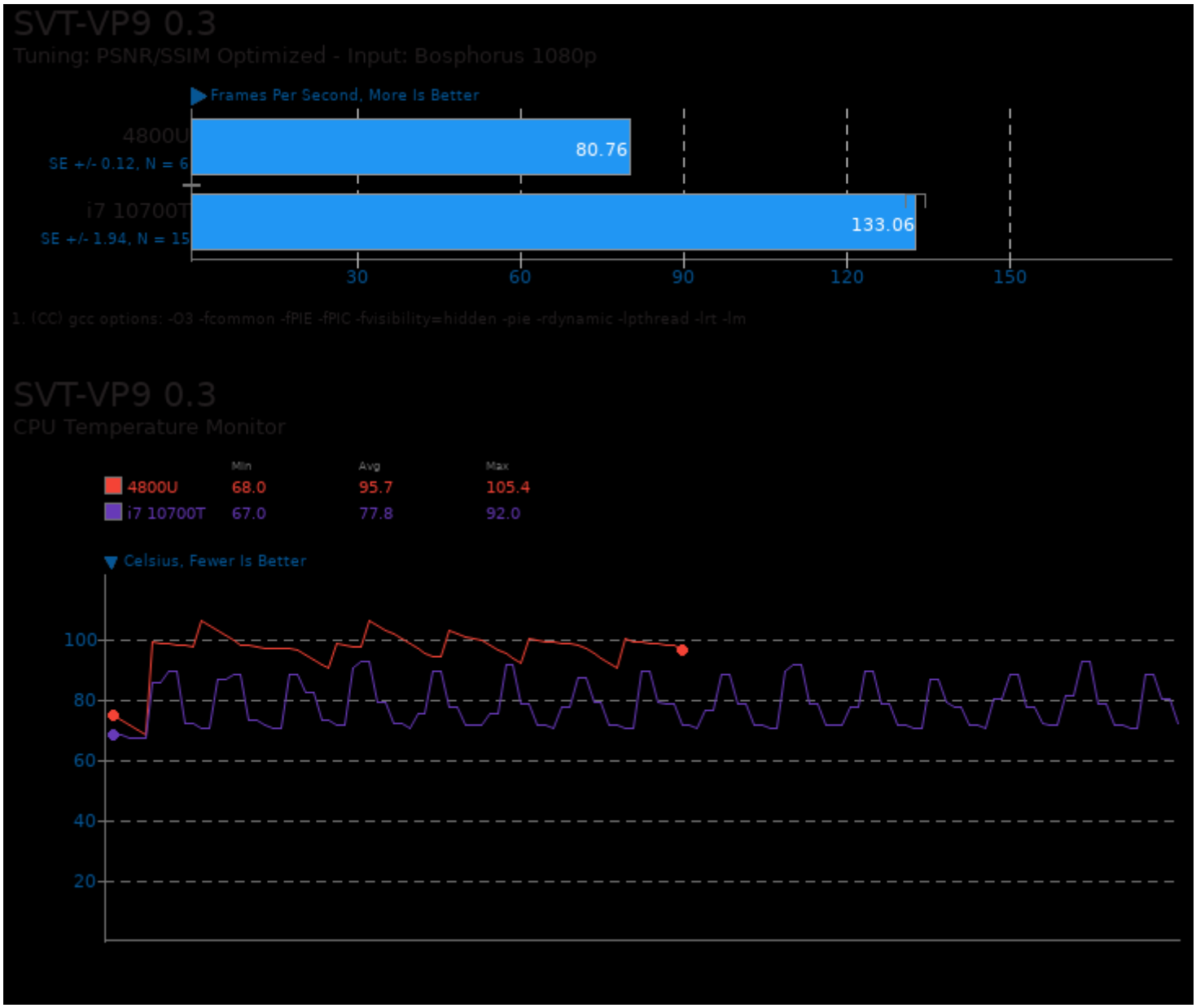



SVT-VP9 0.3
Tuning: VMAF Optimized - Input: Bosphorus 1080p
Frames Per Second, More Is Better
4800U
SE +/- 0.58, N = 10
75.99
i7 10700T
SE +/- 1.50, N = 15
130.27
30
60
90
120
150
1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm
SVT-VP9 0.3
CPU Temperature Monitor
Min
Avg
Max
4800U
71.8
94.7
101.8
i7 10700T
67.0
77.3
92.0
Celsius, Fewer Is Better
100
80
60
40
20

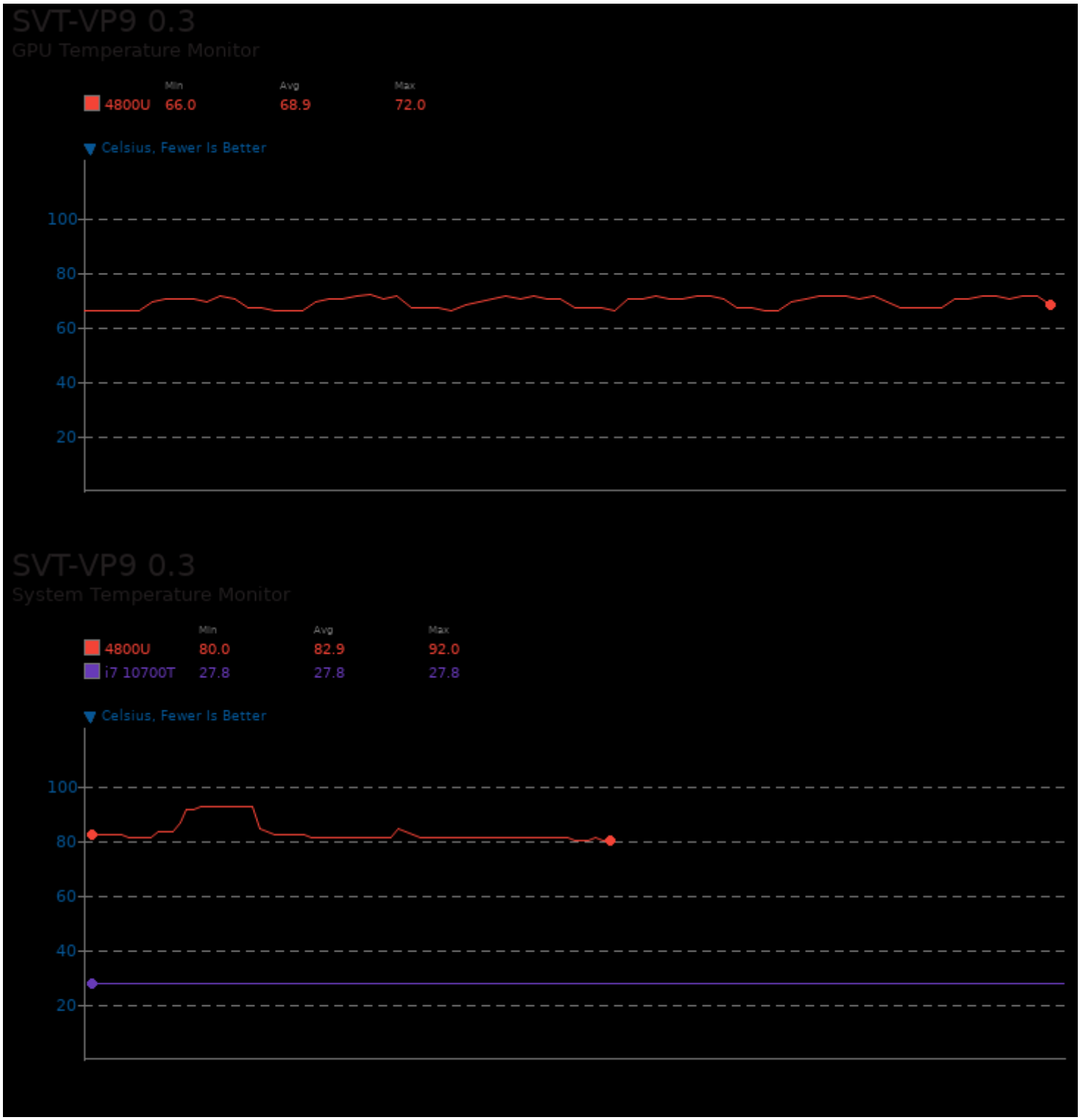
OnLogic Ryzen 4800U

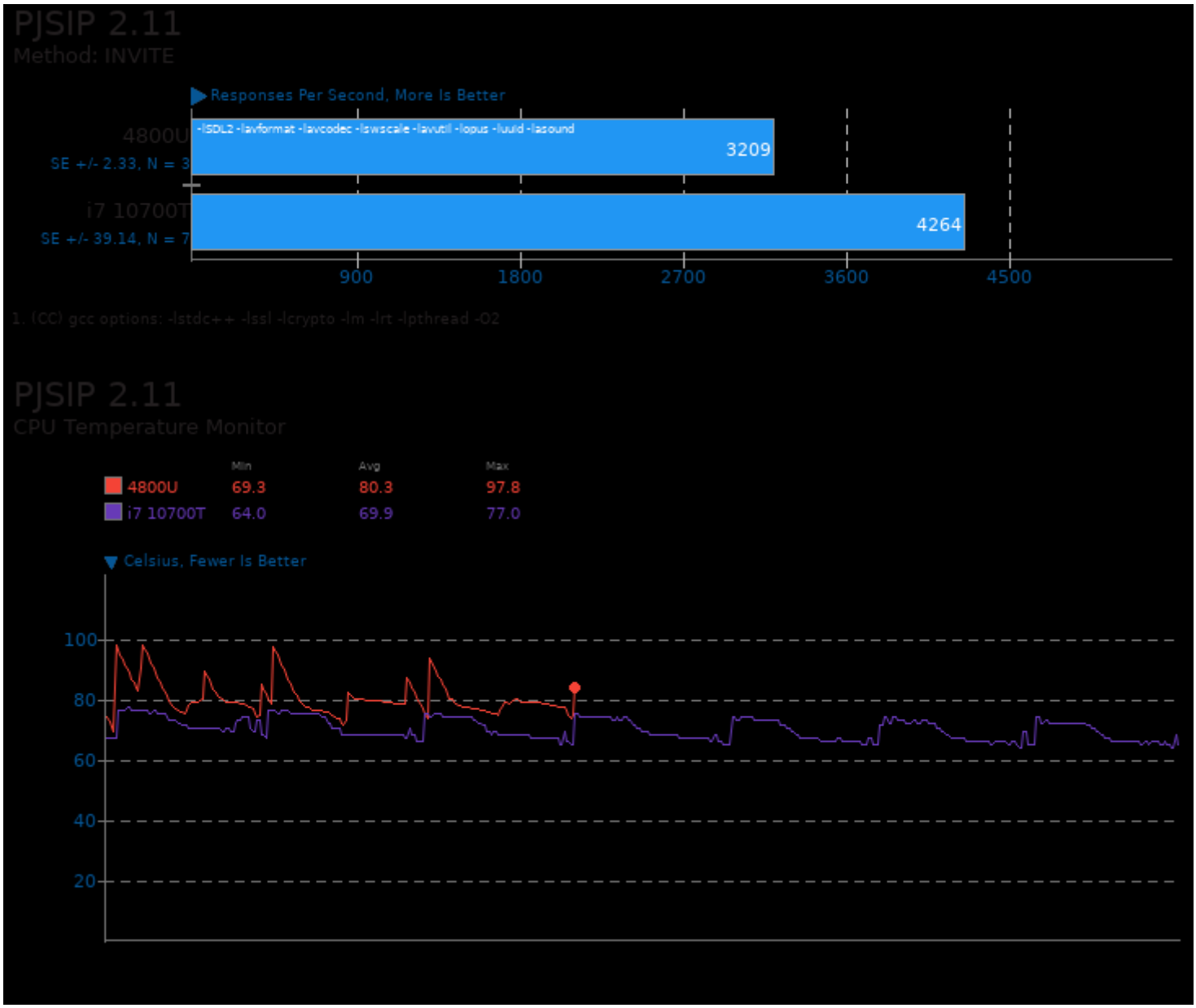


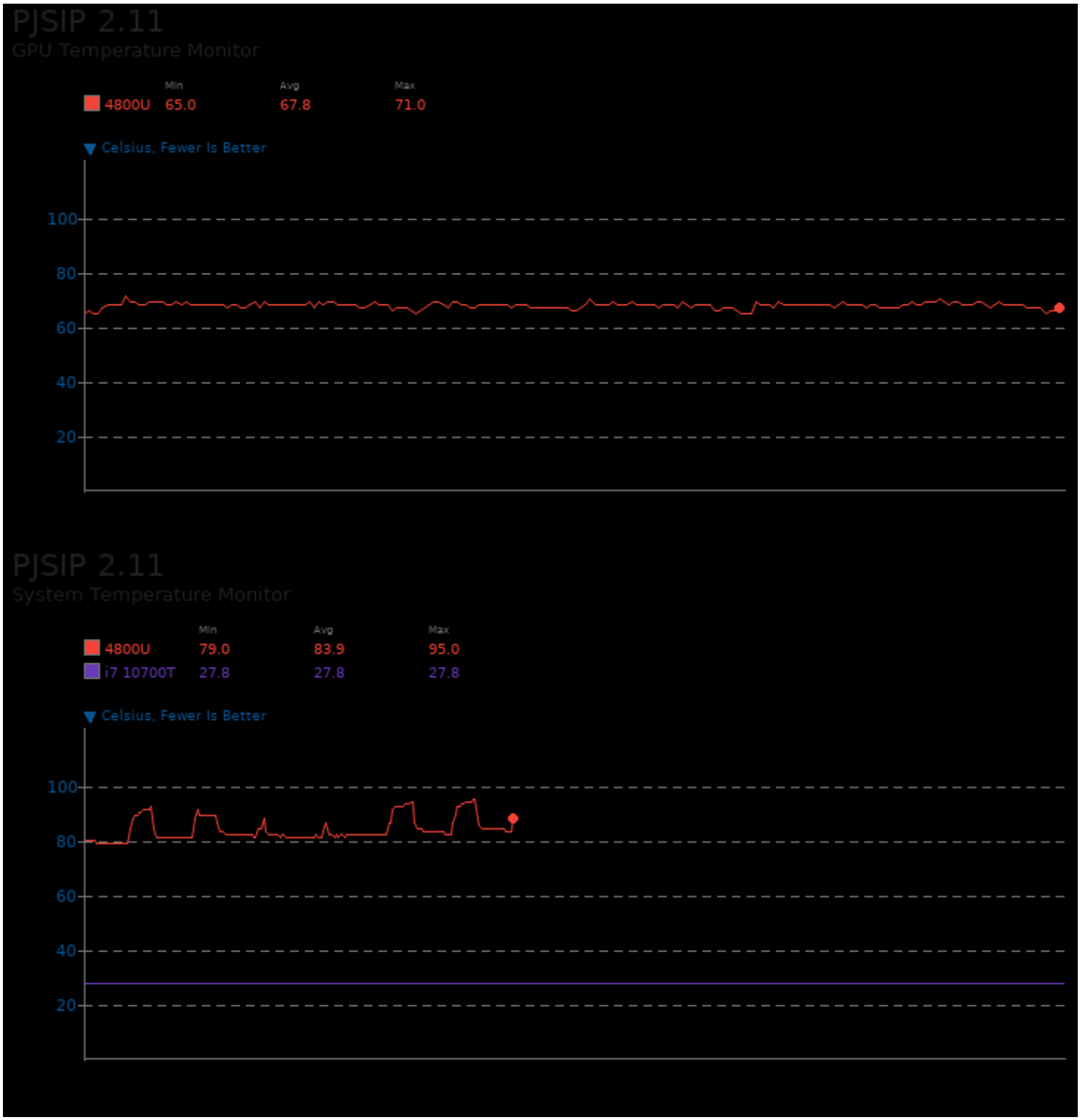
OnLogic Ryzen 4800U

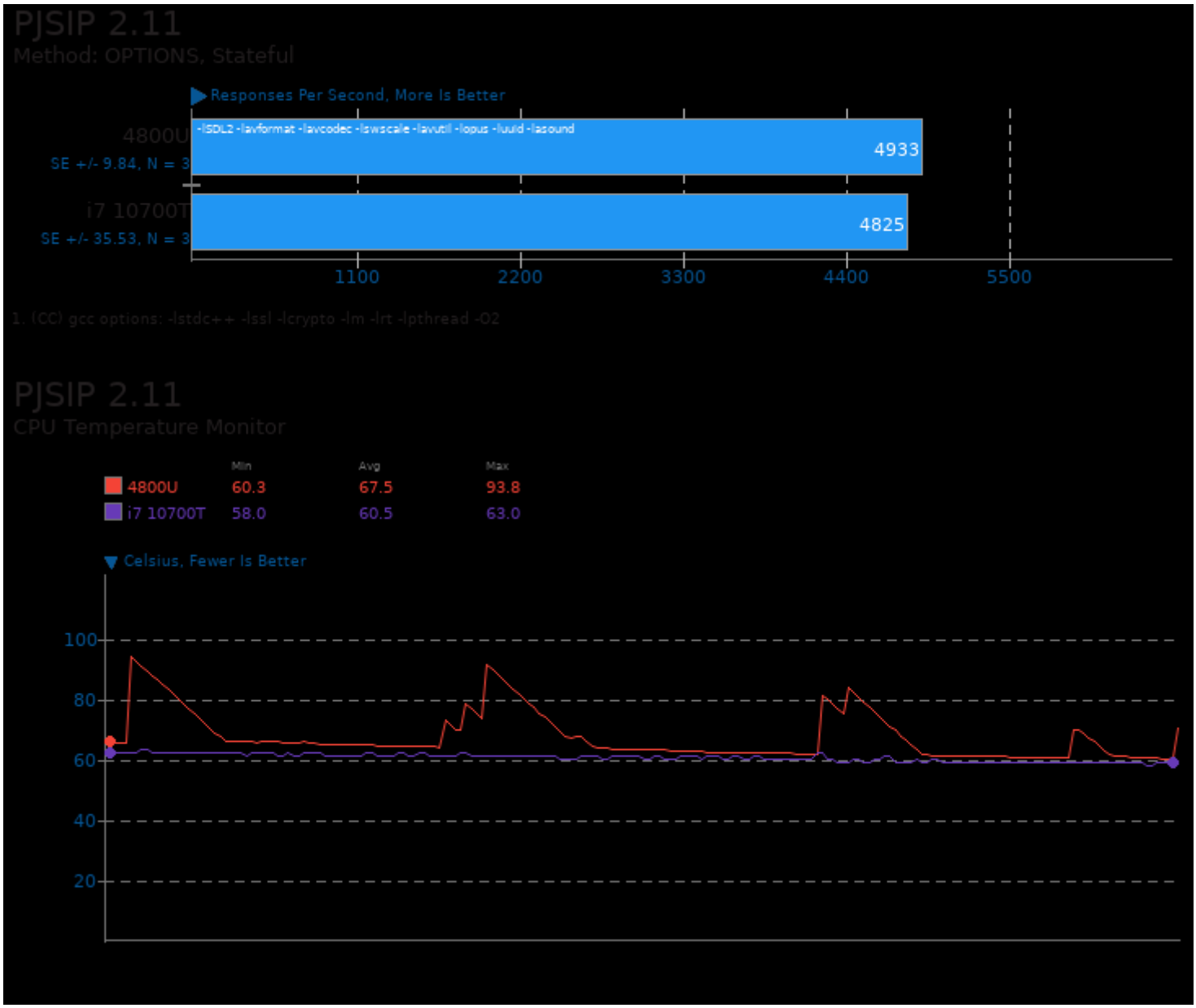


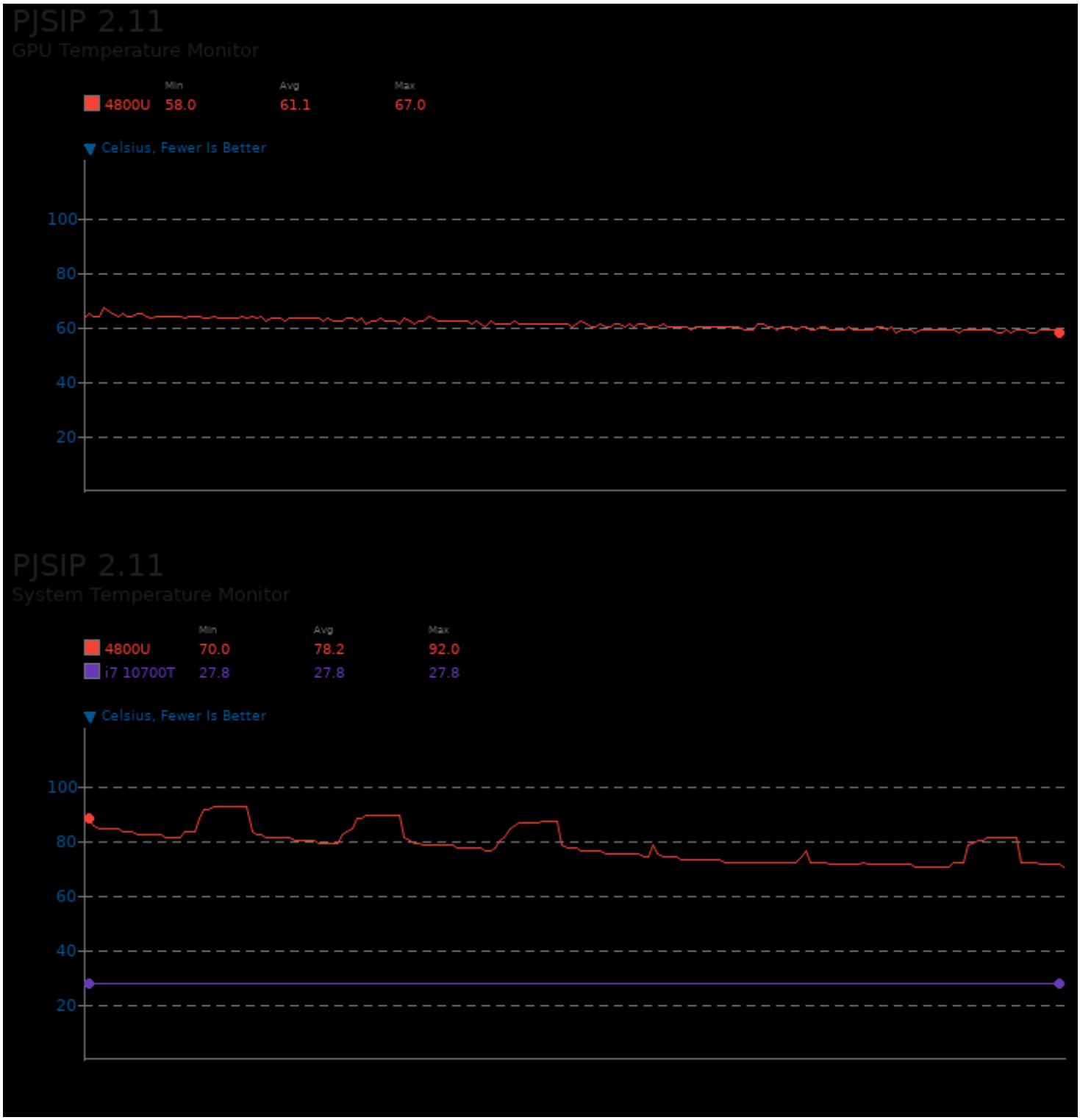
OnLogic Ryzen 4800U

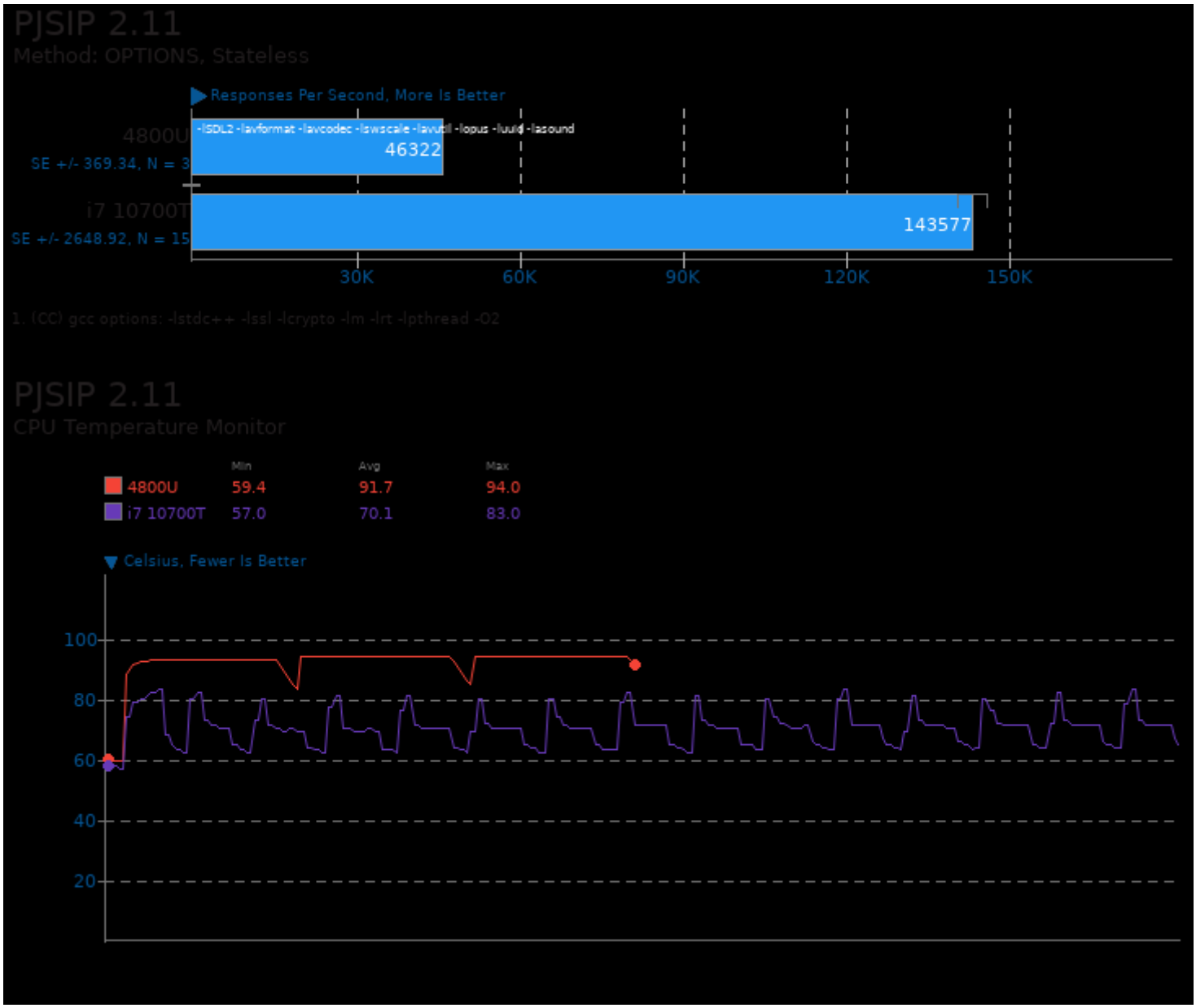


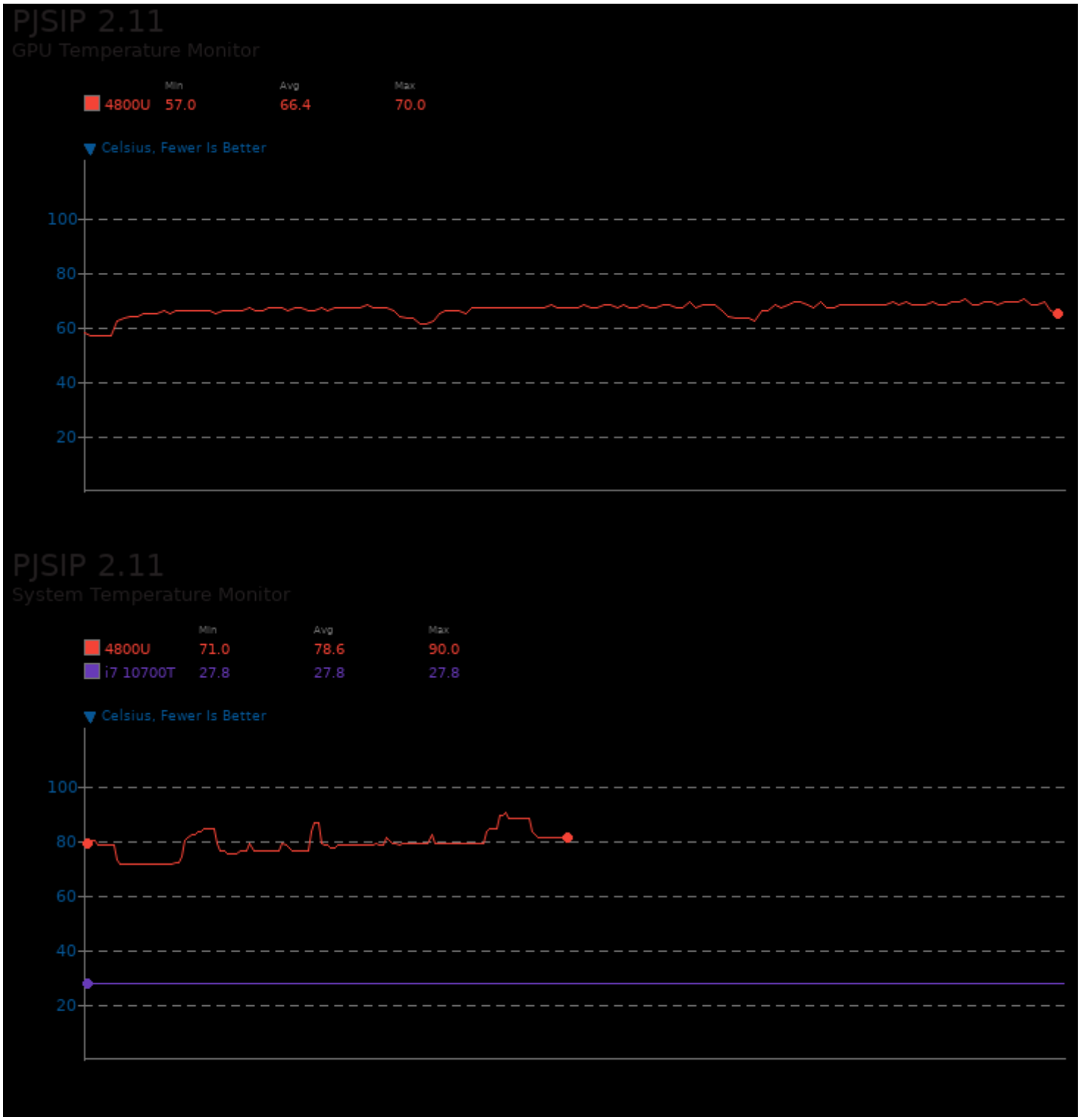

PJSIP 2.11
Method: INVITE
Responses Per Second, More Is Better
4800U
-lSDL2 -lavformat -lavcodec -lswscale -lavutil -lopus -luuid -lasound
3209
SE +/- 2.33, N = 3
i7 10700T
4264
SE +/- 39.14, N = 7
900
1800
2700
3600
4500
1. (CC) gcc options: -lstdc++ -lssl -lcrypto -lm -lrt -lpthread -O2
PJSIP 2.11
CPU Temperature Monitor
Min
Avg
Max
4800U
69.3
80.3
97.8
i7 10700T
64.0
69.9
77.0
Celsius, Fewer Is Better
100
80
60
40
20

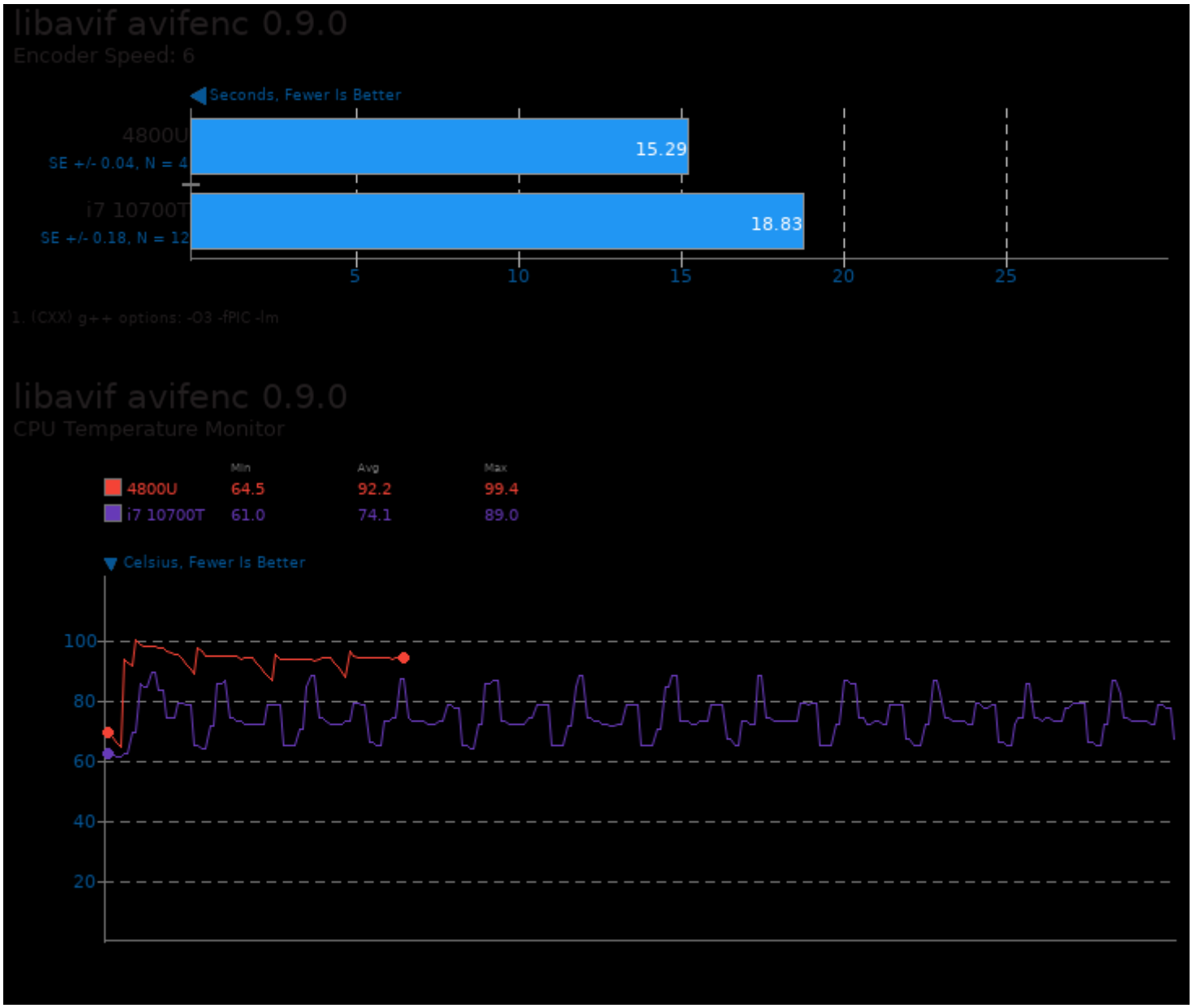

PJSIP 2.11
GPU Temperature Monitor
Min
Avg
Max
4800U 65.0 67.8 71.0
Celsius, Fewer Is Better
100
80
60
40
20
PJSIP 2.11
System Temperature Monitor
Min
Avg
Max
4800U 79.0 83.9 95.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

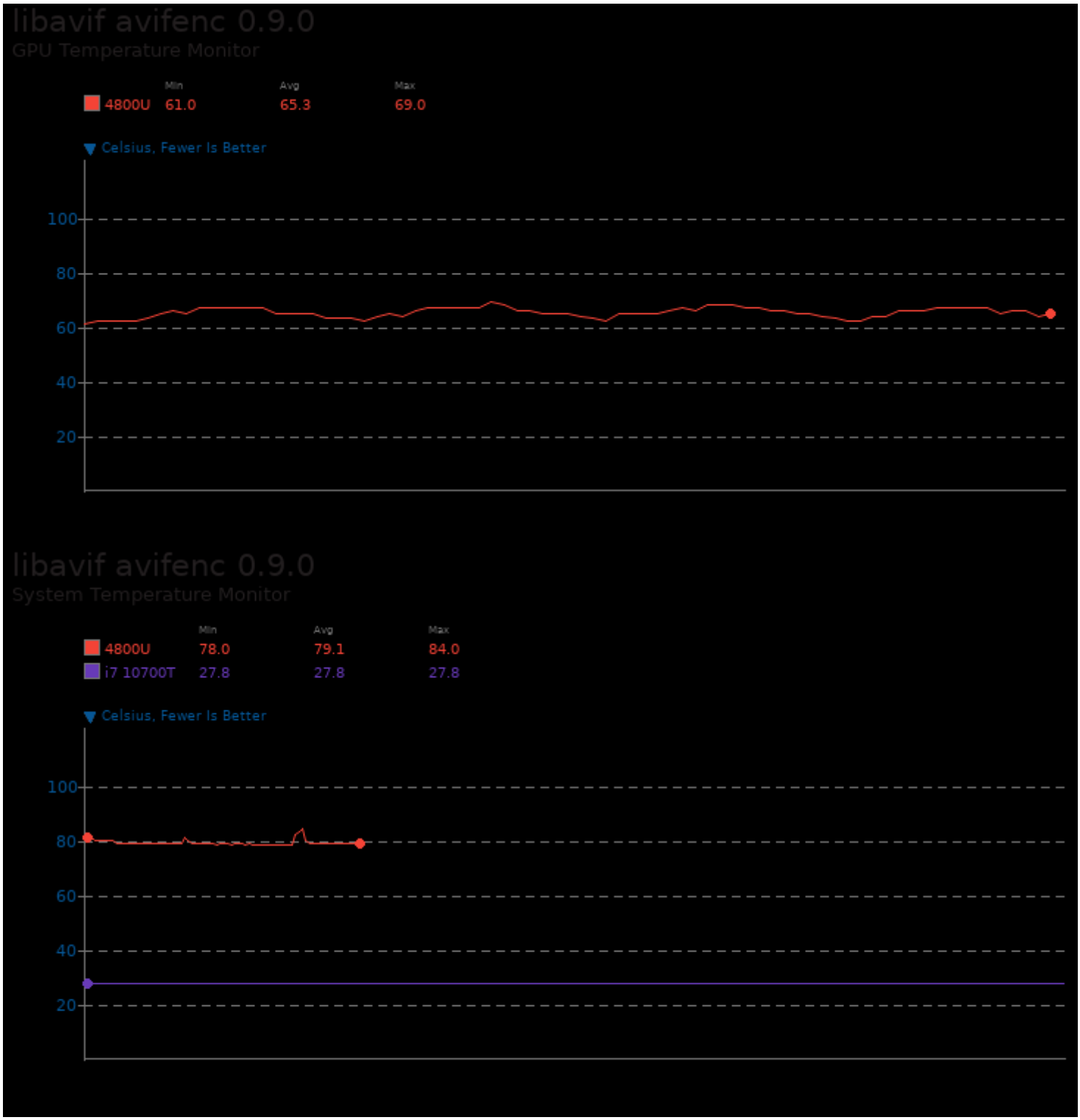

PJSIP 2.11
Method: OPTIONS, Stateful
Responses Per Second, More Is Better
4800U
SE +/- 9.84, N = 3
-lSDL2 -lavformat -lavcodec -lswscale -lavutil -lopus -luuid -lasound
4933
i7 10700T
SE +/- 35.53, N = 3
4825
1100
2200
3300
4400
5500
1. (CC) gcc options: -lstdc++ -lssl -lcrypto -lm -lrt -lpthread -O2
PJSIP 2.11
CPU Temperature Monitor
Min
Avg
Max
4800U
60.3
67.5
93.8
i7 10700T
58.0
60.5
63.0
Celsius, Fewer Is Better
100
80
60
40
20

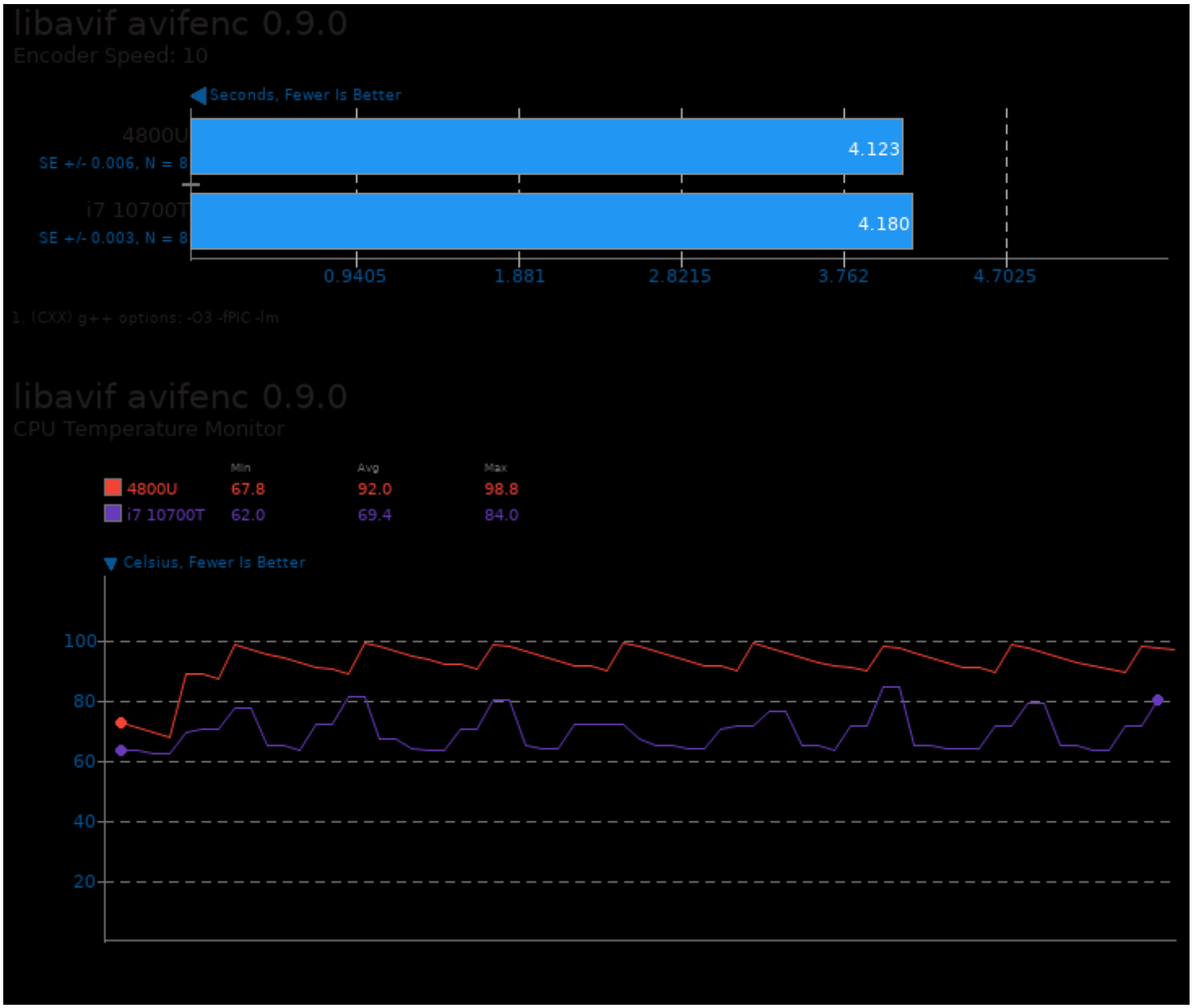

PJSIP 2.11
GPU Temperature Monitor
Min
Avg
Max
4800U 58.0 61.1 67.0
Celsius, Fewer Is Better
100
80
60
40
20
PJSIP 2.11
System Temperature Monitor
Min
Avg
Max
4800U 70.0 78.2 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


PJSIP 2.11
Method: OPTIONS, Stateless
Responses Per Second, More Is Better
4800U
-lSDL2 -lavformat -lavcodec -lswscale -lavutil -lopus -luuid -lasound
46322
SE +/- 369.34, N = 3
i7 10700T
143577
SE +/- 2648.92, N = 15
30K
60K
90K
120K
150K
1. (CC) gcc options: -lstdc++ -lssl -lcrypto -lm -lrt -lpthread -O2
PJSIP 2.11
CPU Temperature Monitor
Min
Avg
Max
4800U 59.4 91.7 94.0
i7 10700T 57.0 70.1 83.0
Celsius, Fewer Is Better
100
80
60
40
20

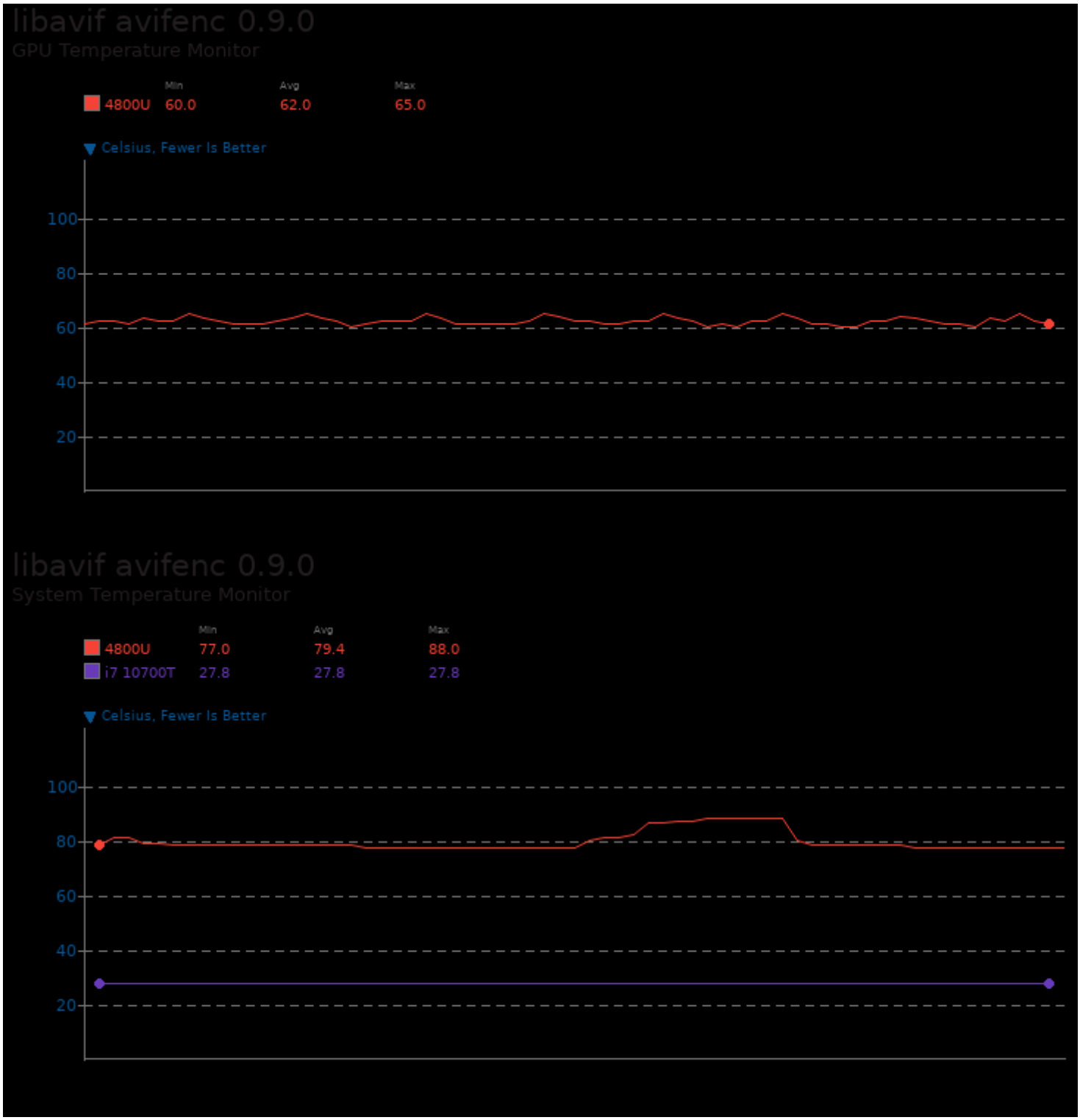

PJSIP 2.11
GPU Temperature Monitor
Min
Avg
Max
4800U 57.0 66.4 70.0
Celsius, Fewer Is Better
100
80
60
40
20
PJSIP 2.11
System Temperature Monitor
Min
Avg
Max
4800U 71.0 78.6 90.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


libavif avifenc 0.9.0
Encoder Speed: 6
Seconds, Fewer Is Better
4800U
SE +/- 0.04, N = 4
15.29
i7 10700T
SE +/- 0.18, N = 12
18.83
5
10
15
20
25
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
CPU Temperature Monitor
Min
Avg
Max
4800U 64.5 92.2 99.4
i7 10700T 61.0 74.1 89.0
Celsius, Fewer Is Better
100
80
60
40
20

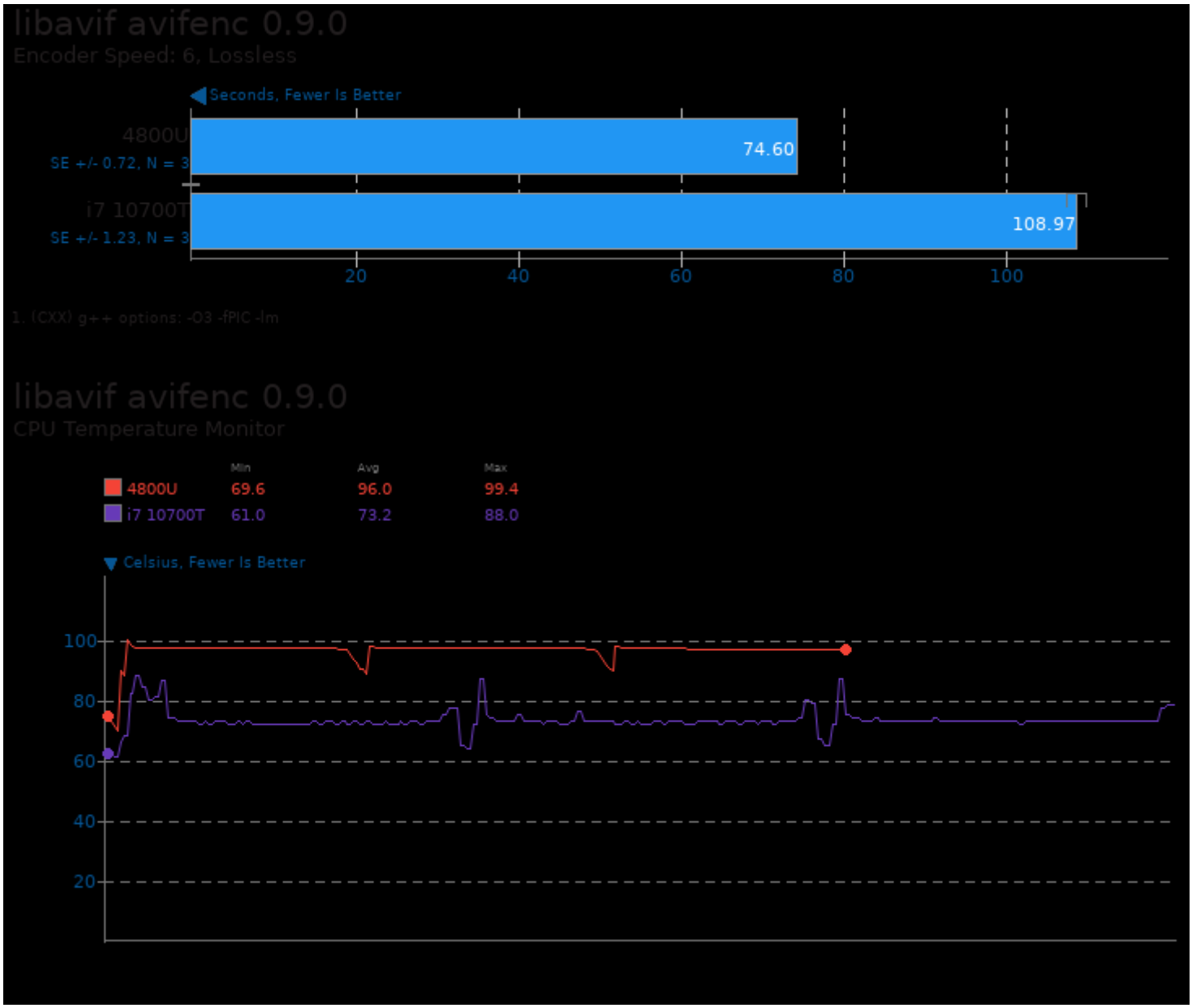

libavif avifenc 0.9.0
GPU Temperature Monitor
Min
Avg
Max
4800U 61.0 65.3 69.0
Celsius, Fewer Is Better
100
80
60
40
20
libavif avifenc 0.9.0
System Temperature Monitor
Min
Avg
Max
4800U 78.0 79.1 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


libavif avifenc 0.9.0
Encoder Speed: 10
Seconds, Fewer Is Better
4800U
SE +/- 0.006, N = 8
4.123
i7 10700T
SE +/- 0.003, N = 8
4.180
0.9405
1.881
2.8215
3.762
4.7025
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
CPU Temperature Monitor
Min
Avg
Max
4800U 67.8 92.0 98.8
i7 10700T 62.0 69.4 84.0
Celsius, Fewer Is Better
100
80
60
40
20

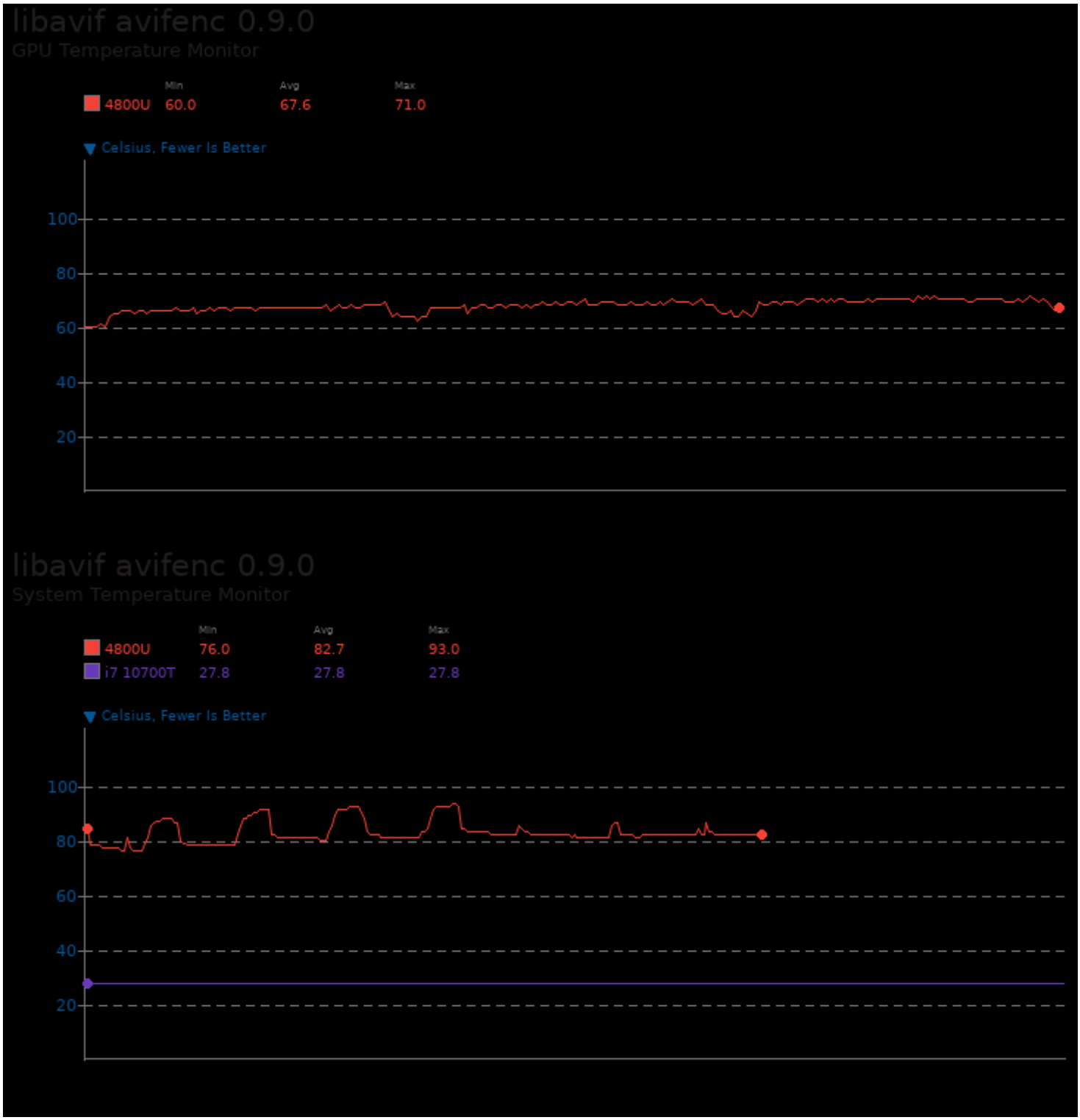
OnLogic Ryzen 4800U

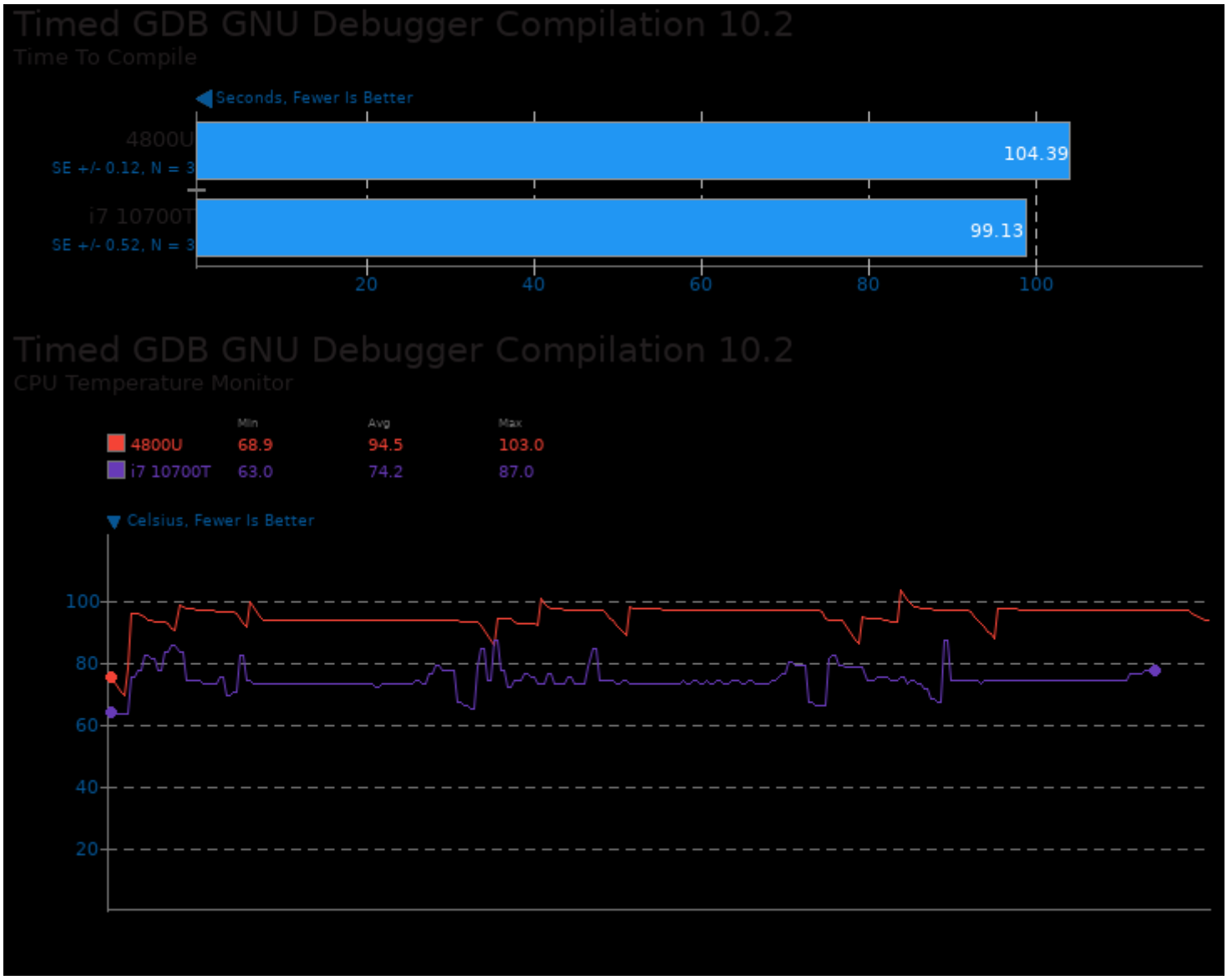


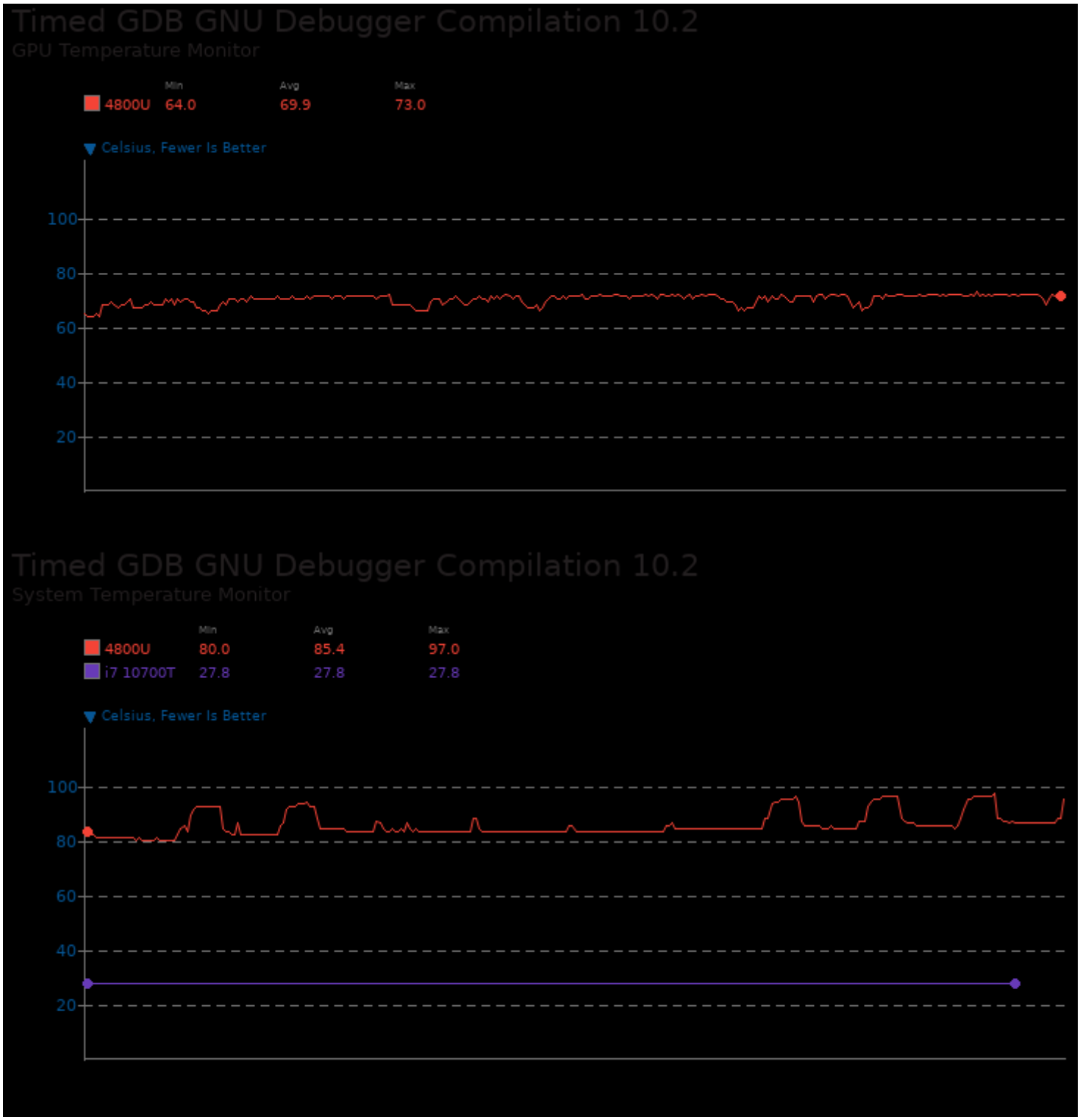
OnLogic Ryzen 4800U

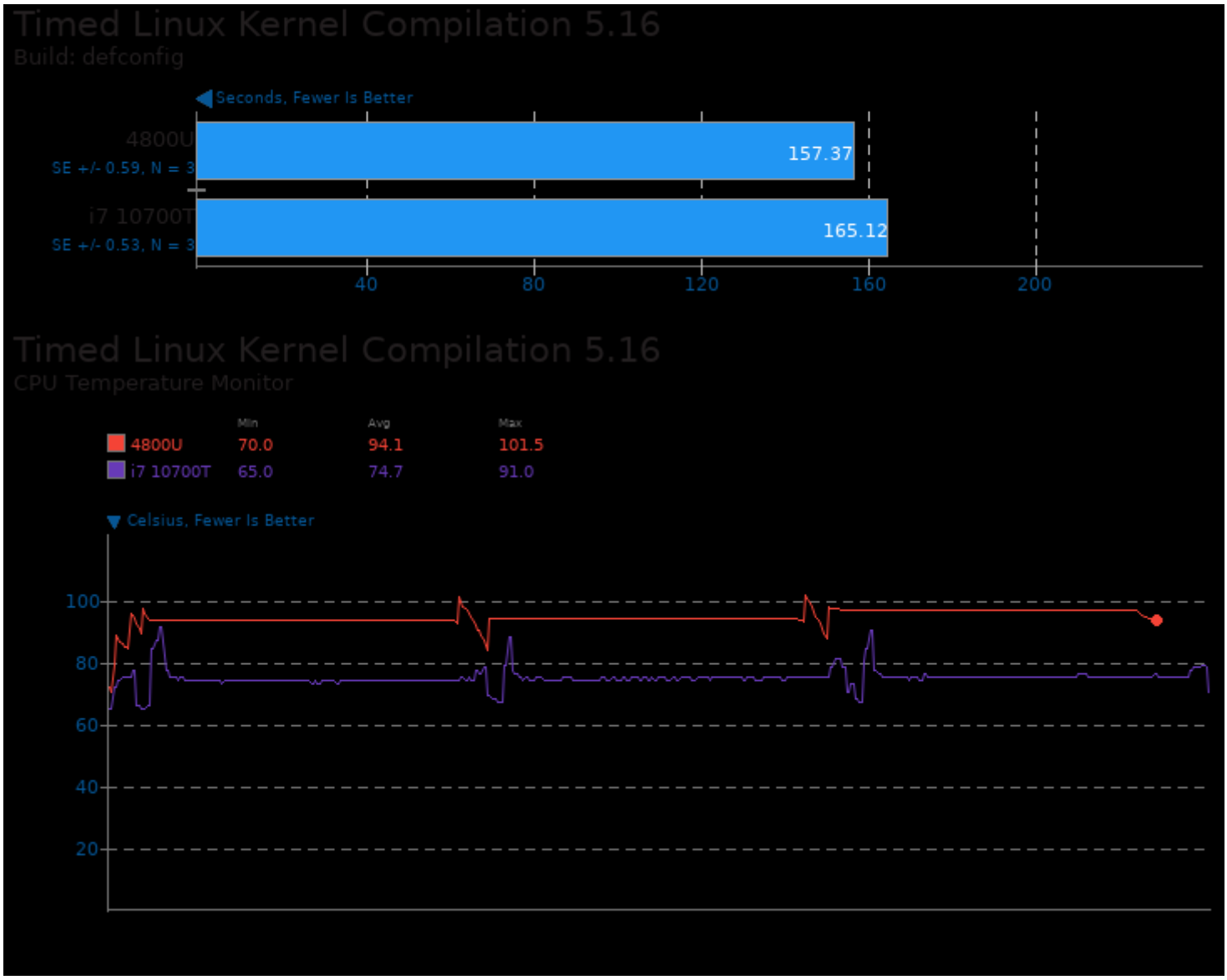


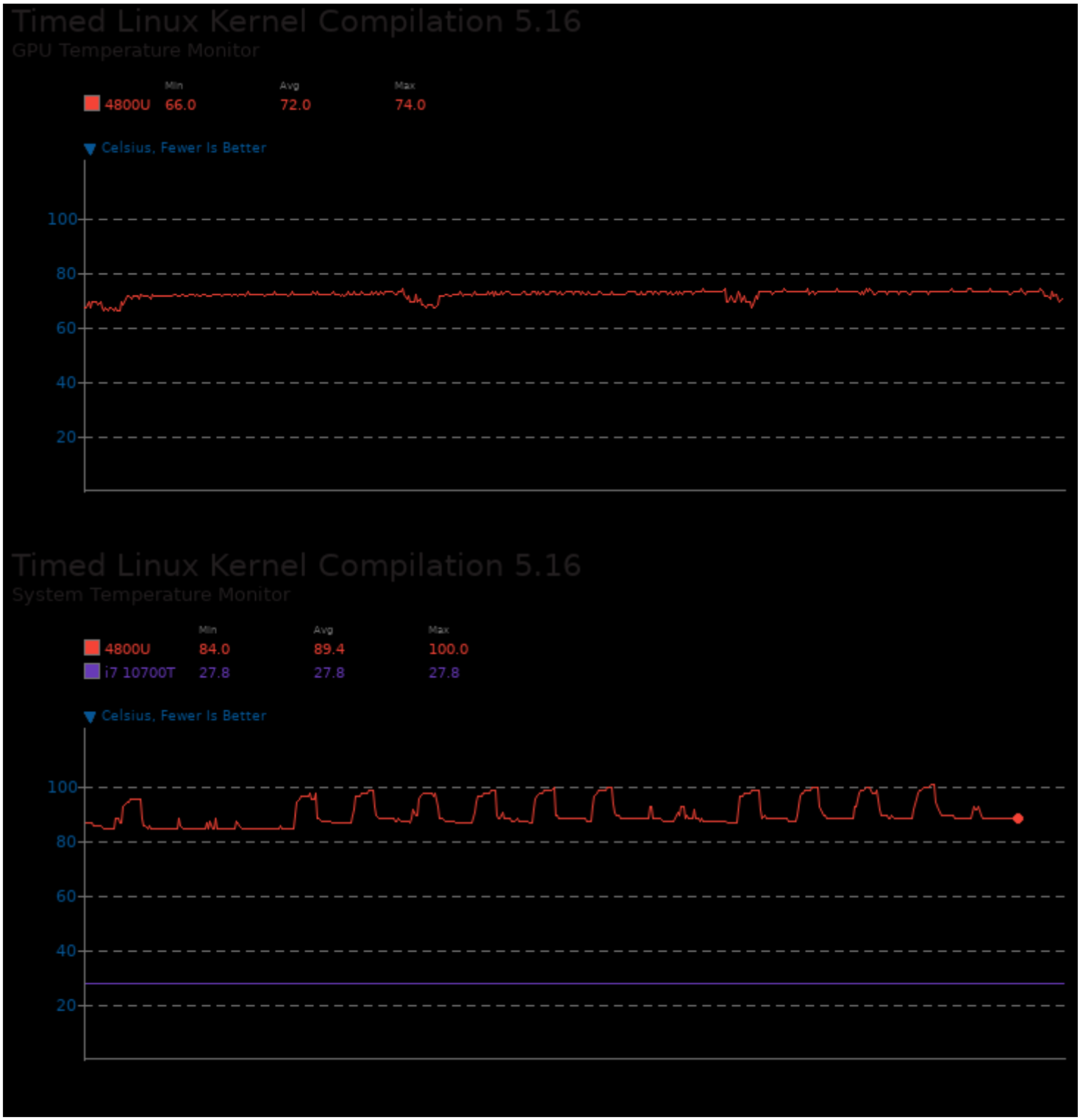
OnLogic Ryzen 4800U

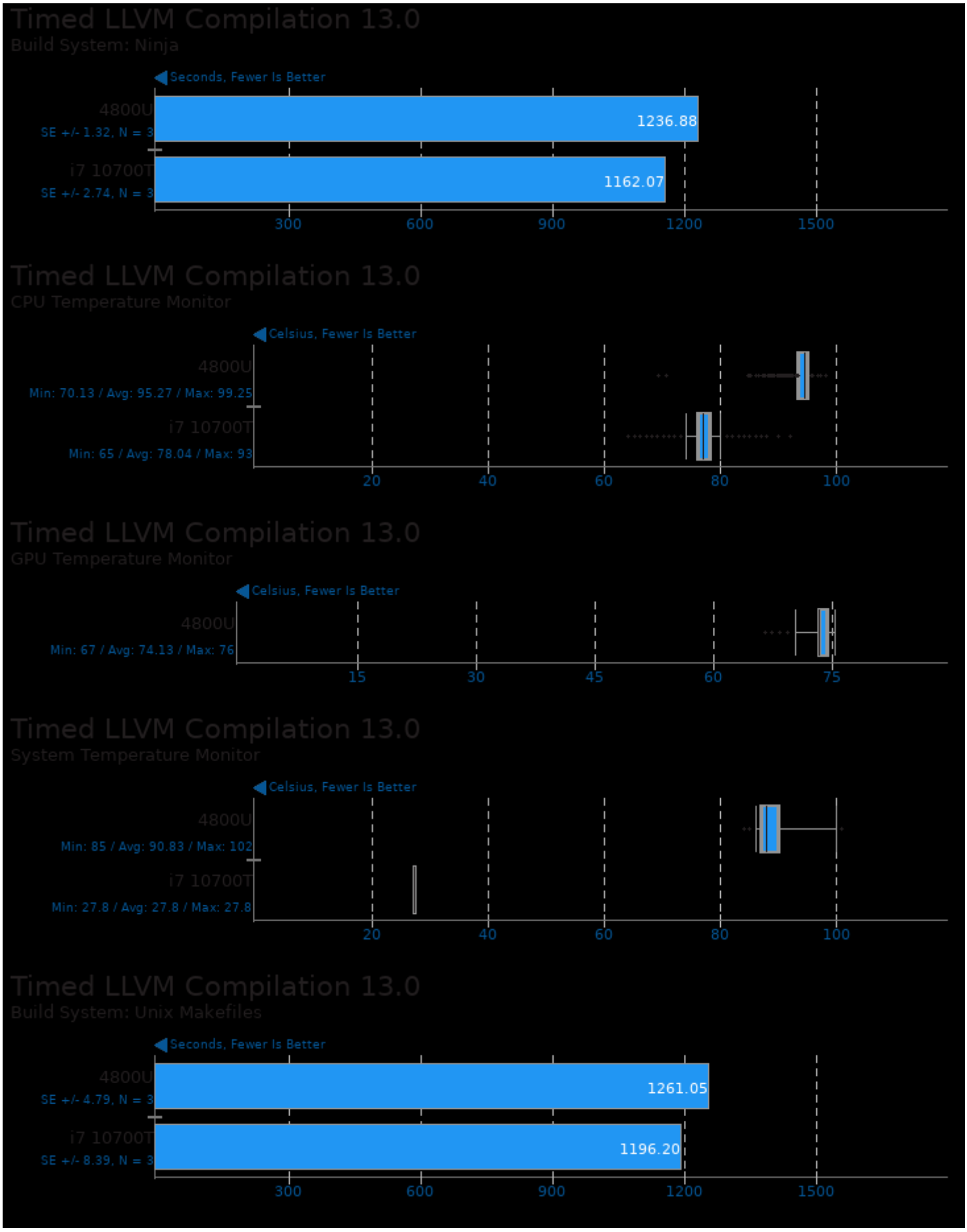


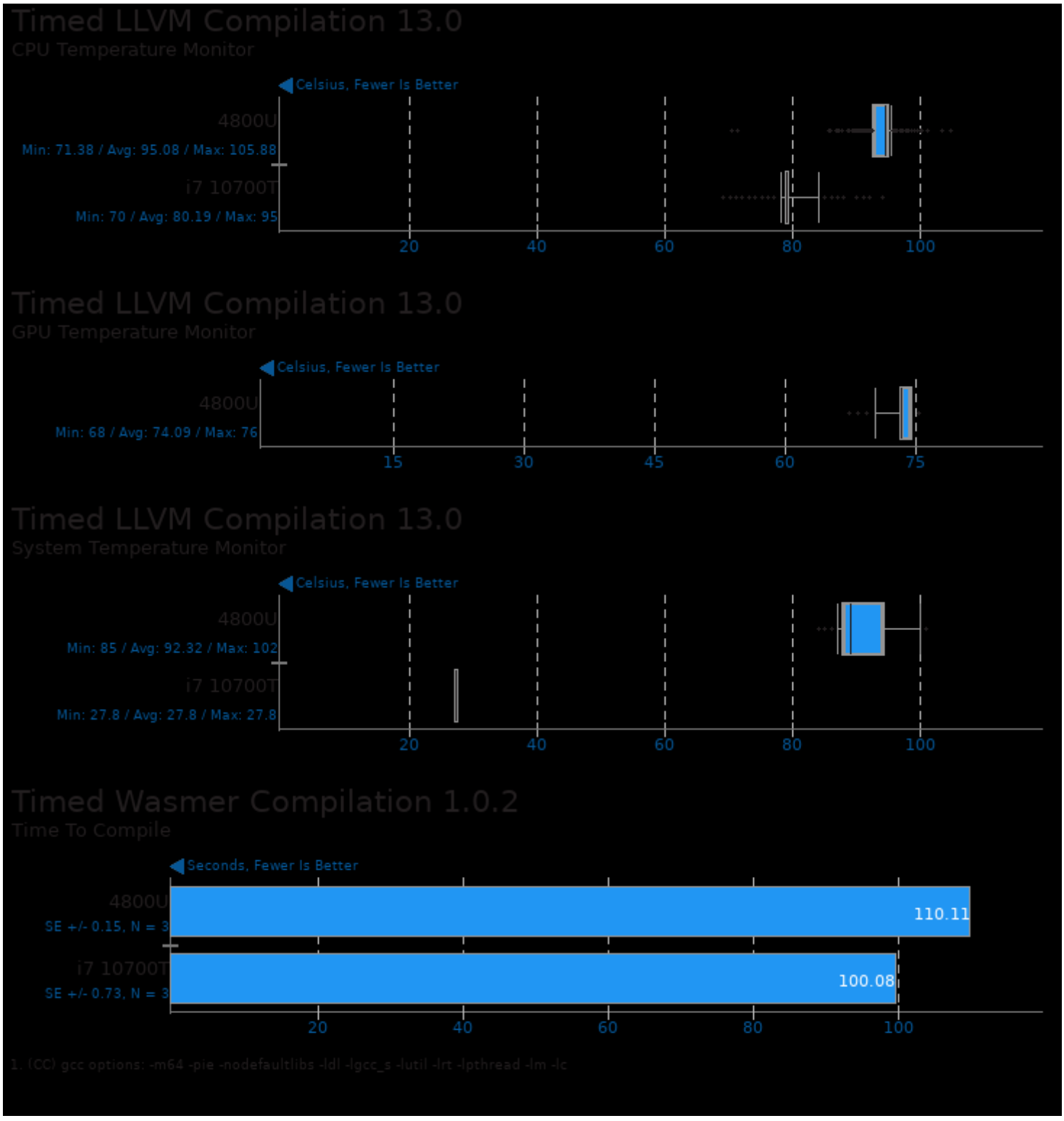

Timed GDB GNU Debugger Compilation 10.2
Time To Compile
Seconds, Fewer Is Better
4800U
SE +/- 0.12, N = 3
104.39
i7 10700T
SE +/- 0.52, N = 3
99.13
20
40
60
80
100
Timed GDB GNU Debugger Compilation 10.2
CPU Temperature Monitor
Min
Avg
Max
4800U 68.9 94.5 103.0
i7 10700T 63.0 74.2 87.0
Celsius, Fewer Is Better
100
80
60
40
20

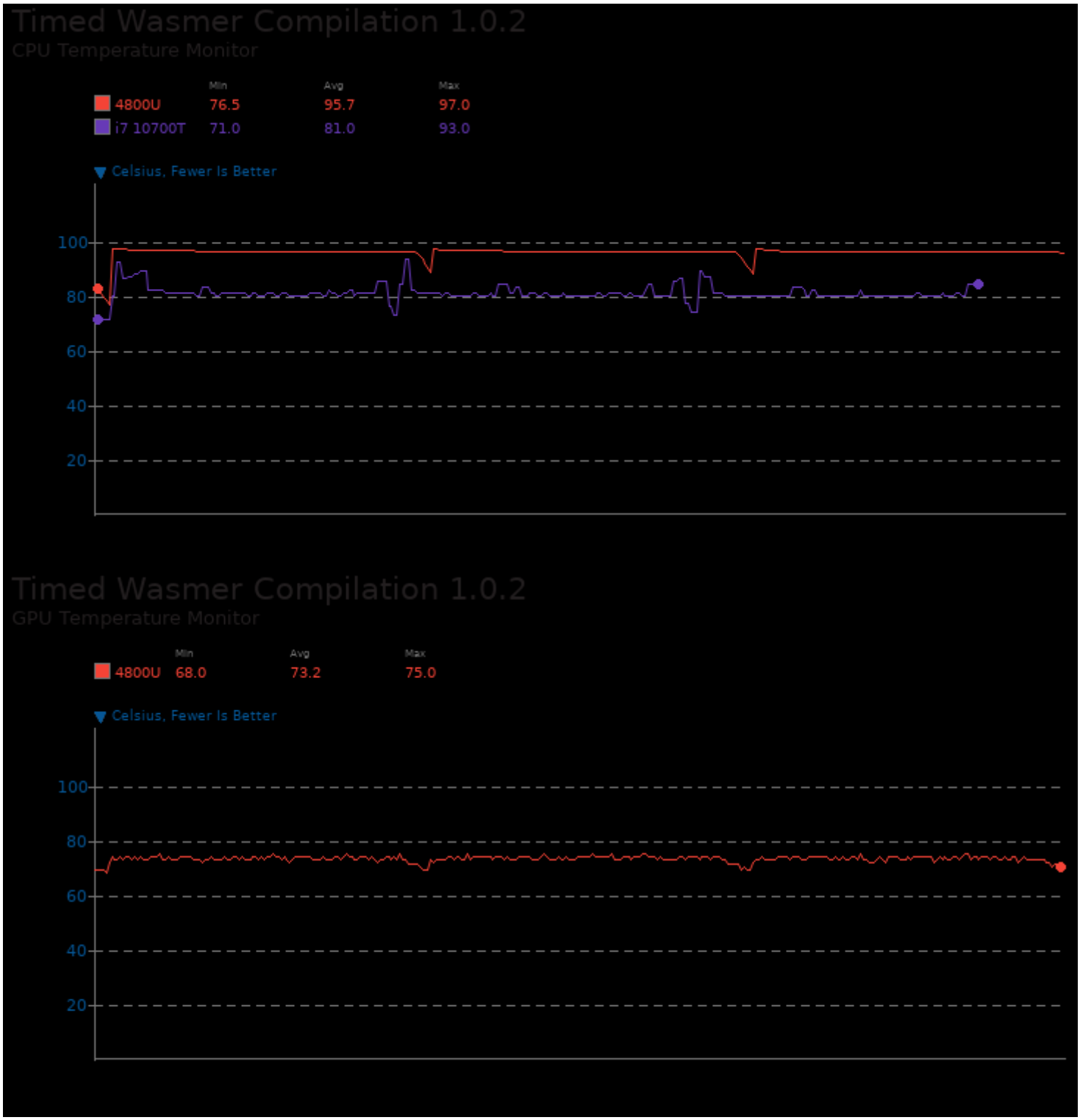

Timed GDB GNU Debugger Compilation 10.2
GPU Temperature Monitor
Min
Avg
Max
4800U 64.0 69.9 73.0
Celsius, Fewer Is Better
100
80
60
40
20
Timed GDB GNU Debugger Compilation 10.2
System Temperature Monitor
Min
Avg
Max
4800U 80.0 85.4 97.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 5.16
Build: defconfig
Seconds, Fewer Is Better
4800U
SE +/- 0.59, N = 3
157.37
i7 10700T
SE +/- 0.53, N = 3
165.12
40
80
120
160
200
Timed Linux Kernel Compilation 5.16
CPU Temperature Monitor
Min
Avg
Max
4800U
70.0
94.1
101.5
i7 10700T
65.0
74.7
91.0
Celsius, Fewer Is Better
100
80
60
40
20

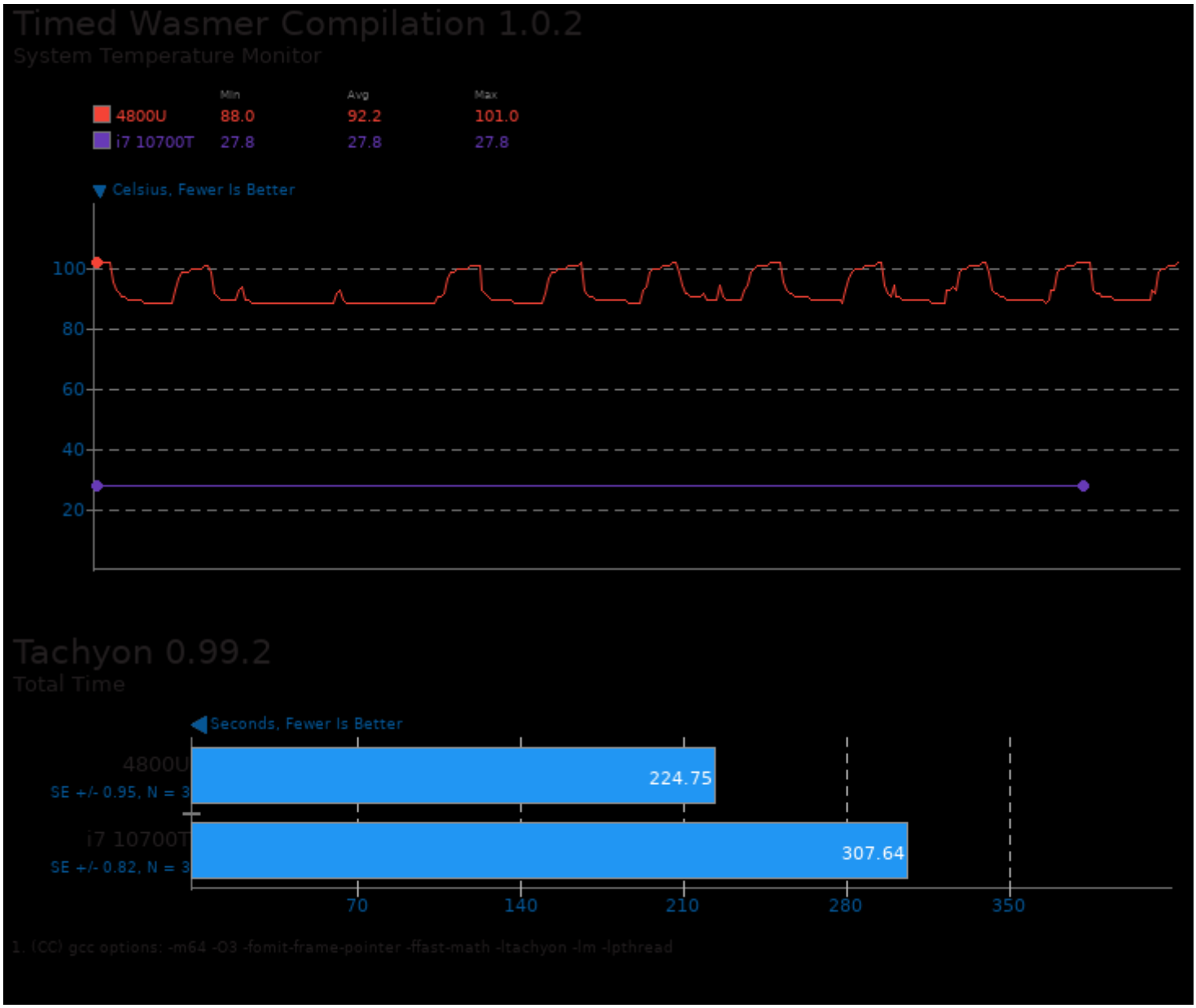

Timed Linux Kernel Compilation 5.16
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 72.0 74.0
Celsius, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 5.16
System Temperature Monitor
Min
Avg
Max
4800U 84.0 89.4 100.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


Timed LLVM Compilation 13.0
Build System: Ninja
Seconds, Fewer Is Better
4800U
SE +/- 1.32, N = 3
1236.88
i7 10700T
SE +/- 2.74, N = 3
1162.07
300
600
900
1200
1500
Timed LLVM Compilation 13.0
CPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 70.13 / Avg: 95.27 / Max: 99.25
i7 10700T
Min: 65 / Avg: 78.04 / Max: 93
20
40
60
80
100
Timed LLVM Compilation 13.0
GPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 67 / Avg: 74.13 / Max: 76
15
30
45
60
75
Timed LLVM Compilation 13.0
System Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 85 / Avg: 90.83 / Max: 102
i7 10700T
Min: 27.8 / Avg: 27.8 / Max: 27.8
20
40
60
80
100
Timed LLVM Compilation 13.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
4800U
SE +/- 4.79, N = 3
1261.05
i7 10700T
SE +/- 8.39, N = 3
1196.20
300
600
900
1200
1500

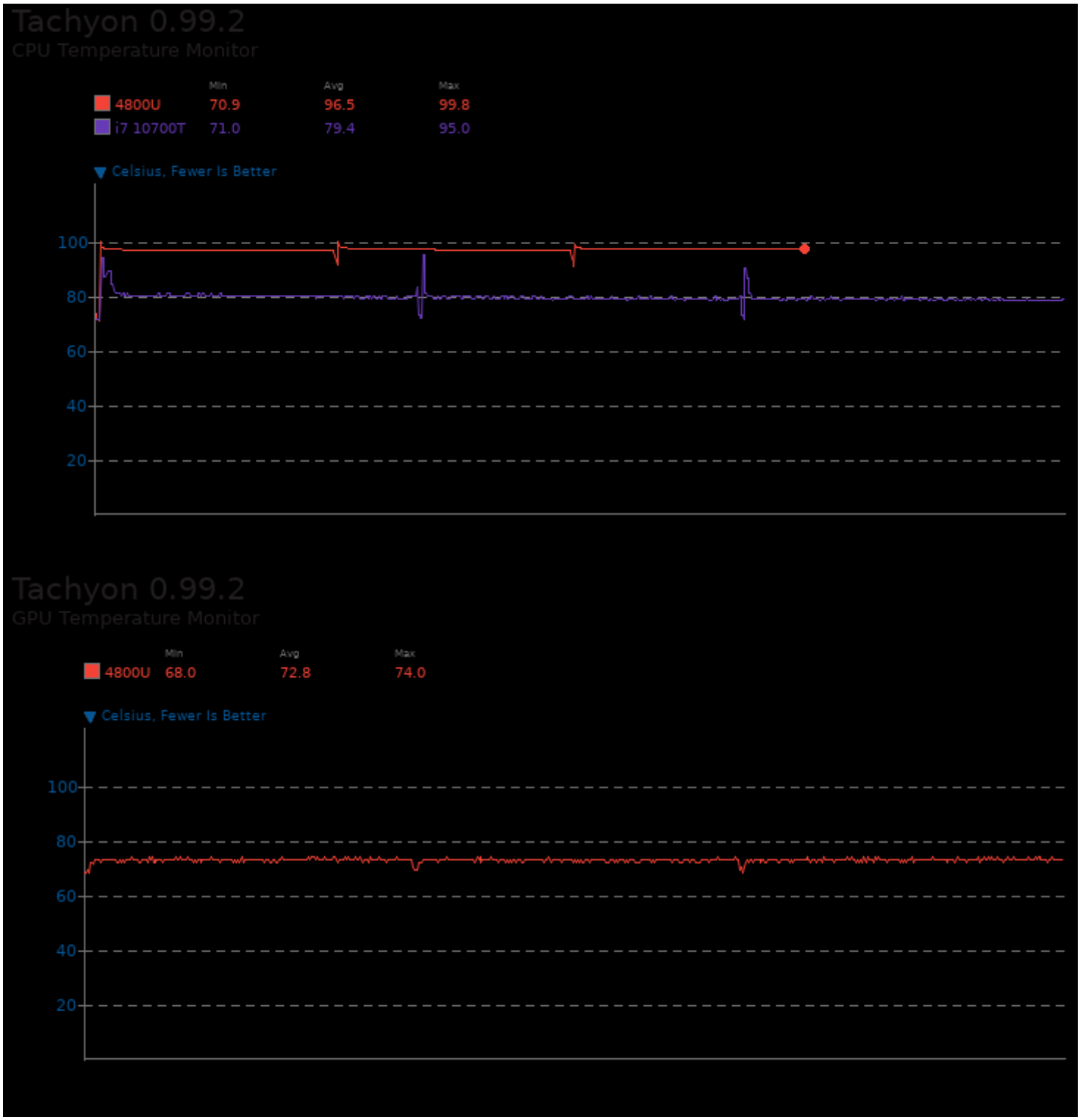

Timed LLVM Compilation 13.0
CPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 71.38 / Avg: 95.08 / Max: 105.88
i7 10700T
Min: 70 / Avg: 80.19 / Max: 95
20
40
60
80
100
Timed LLVM Compilation 13.0
GPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 68 / Avg: 74.09 / Max: 76
15
30
45
60
75
Timed LLVM Compilation 13.0
System Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 85 / Avg: 92.32 / Max: 102
i7 10700T
Min: 27.8 / Avg: 27.8 / Max: 27.8
20
40
60
80
100
Timed Wasmer Compilation 1.0.2
Time To Compile
Seconds, Fewer Is Better
4800U
SE +/- 0.15, N = 3
110.11
i7 10700T
SE +/- 0.73, N = 3
100.08
20
40
60
80
100
1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lgcc_s -lutil -lrt -lpthread -lm -lc


Timed Wasmer Compilation 1.0.2
CPU Temperature Monitor
Min
Avg
Max
4800U
76.5
95.7
97.0
i7 10700T
71.0
81.0
93.0
Celsius, Fewer Is Better
100
80
60
40
20
Timed Wasmer Compilation 1.0.2
GPU Temperature Monitor
Min
Avg
Max
4800U
68.0
73.2
75.0
Celsius, Fewer Is Better
100
80
60
40
20

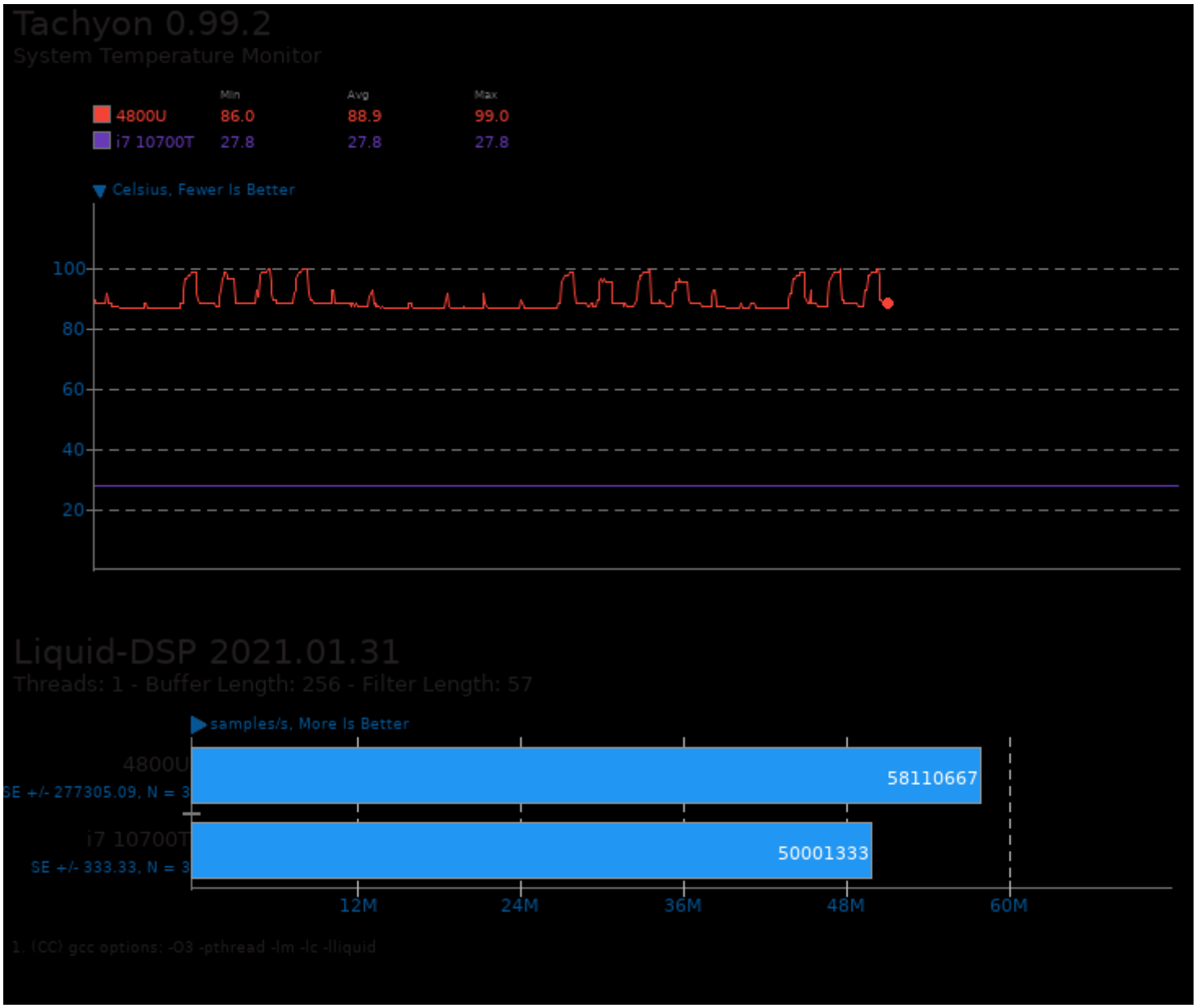
OnLogic Ryzen 4800U

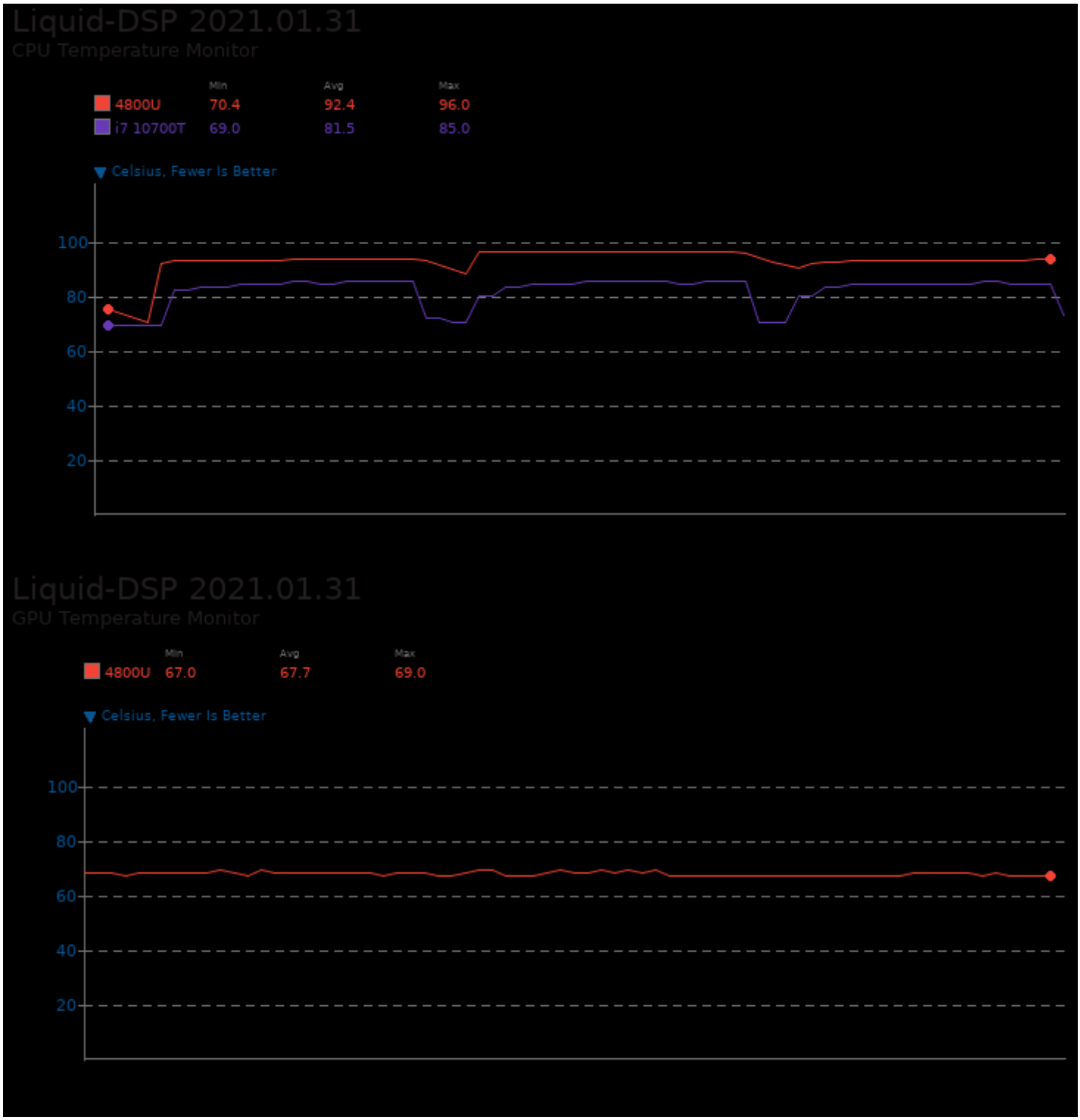


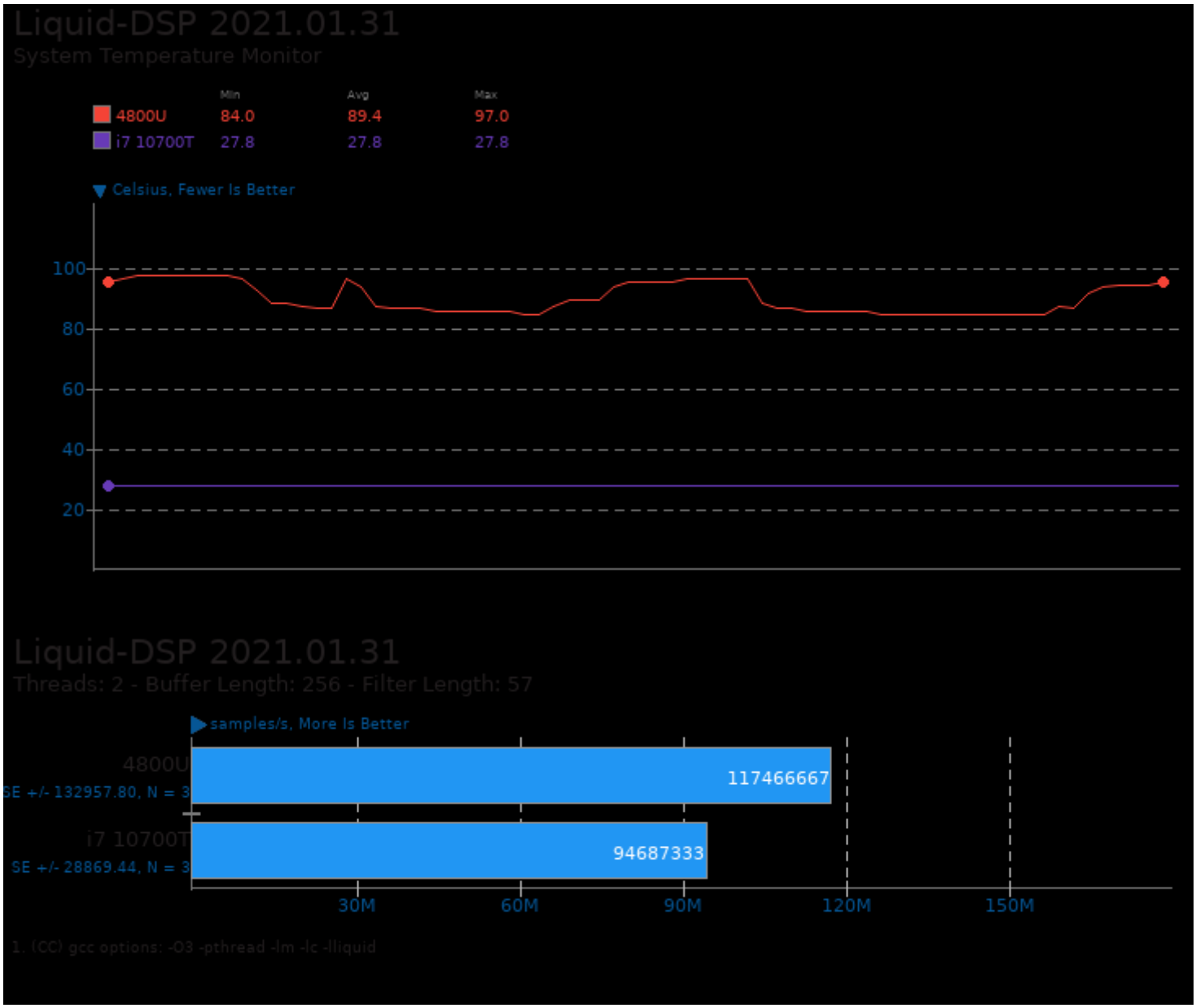
OnLogic Ryzen 4800U

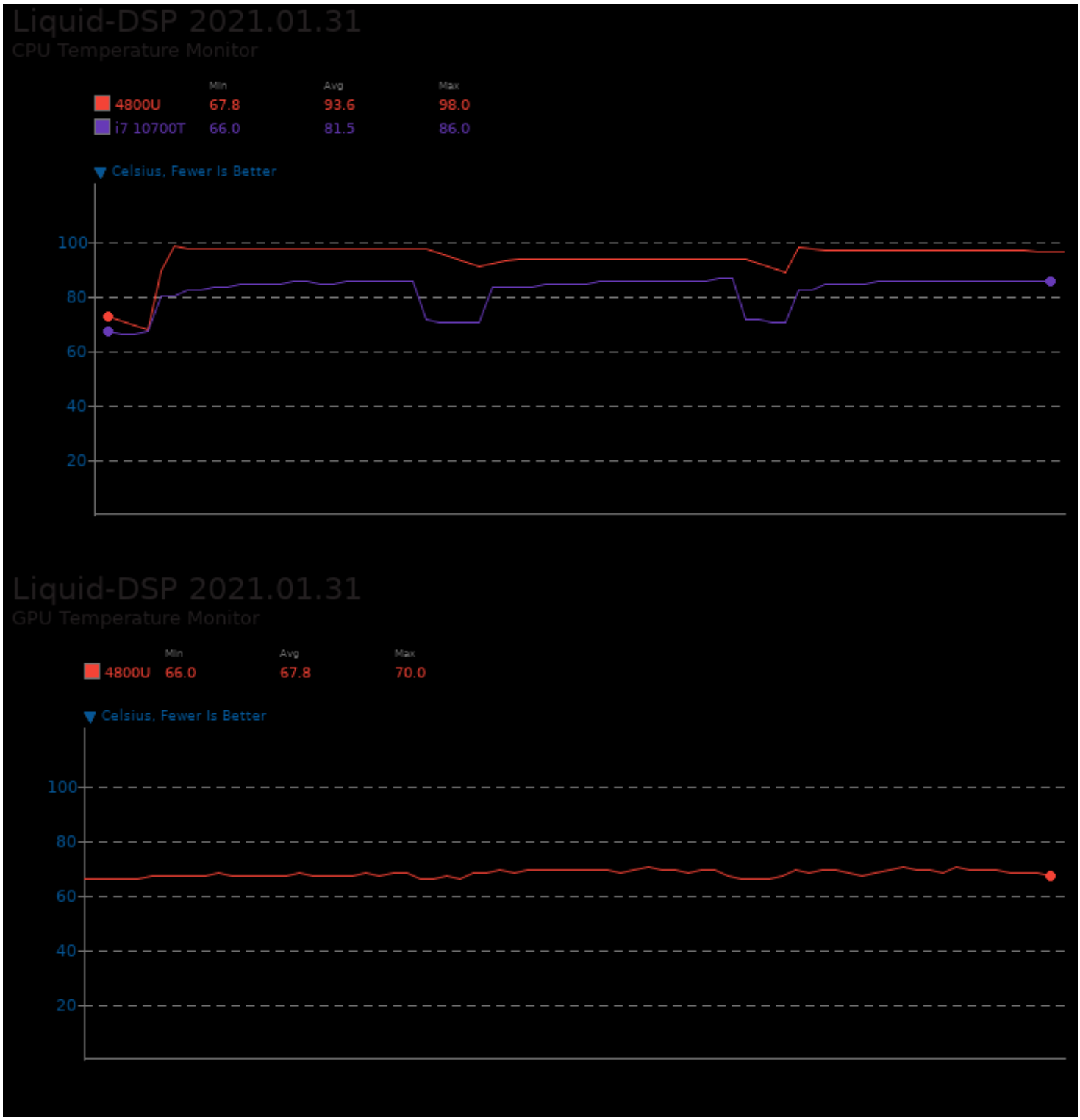


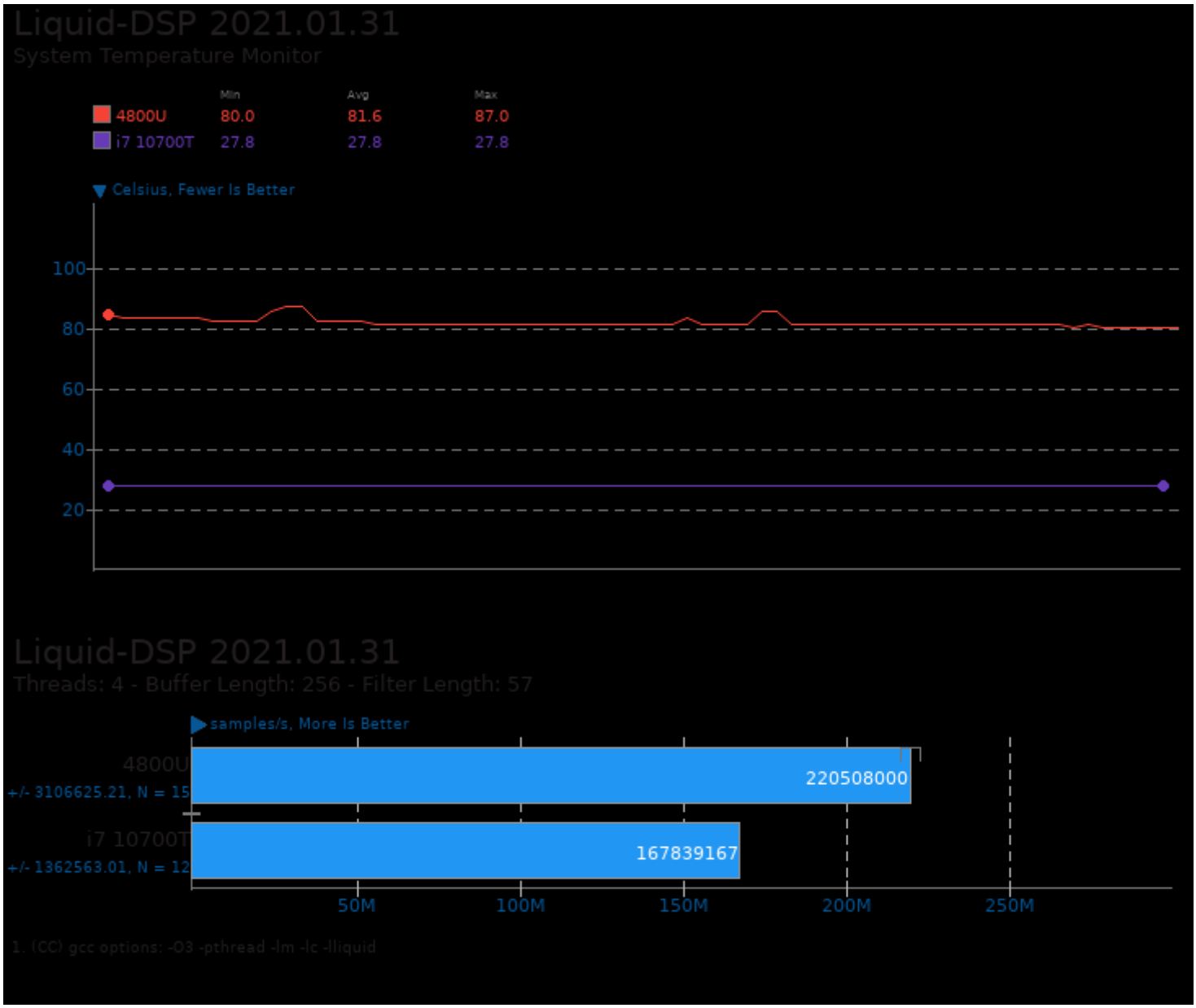
OnLogic Ryzen 4800U



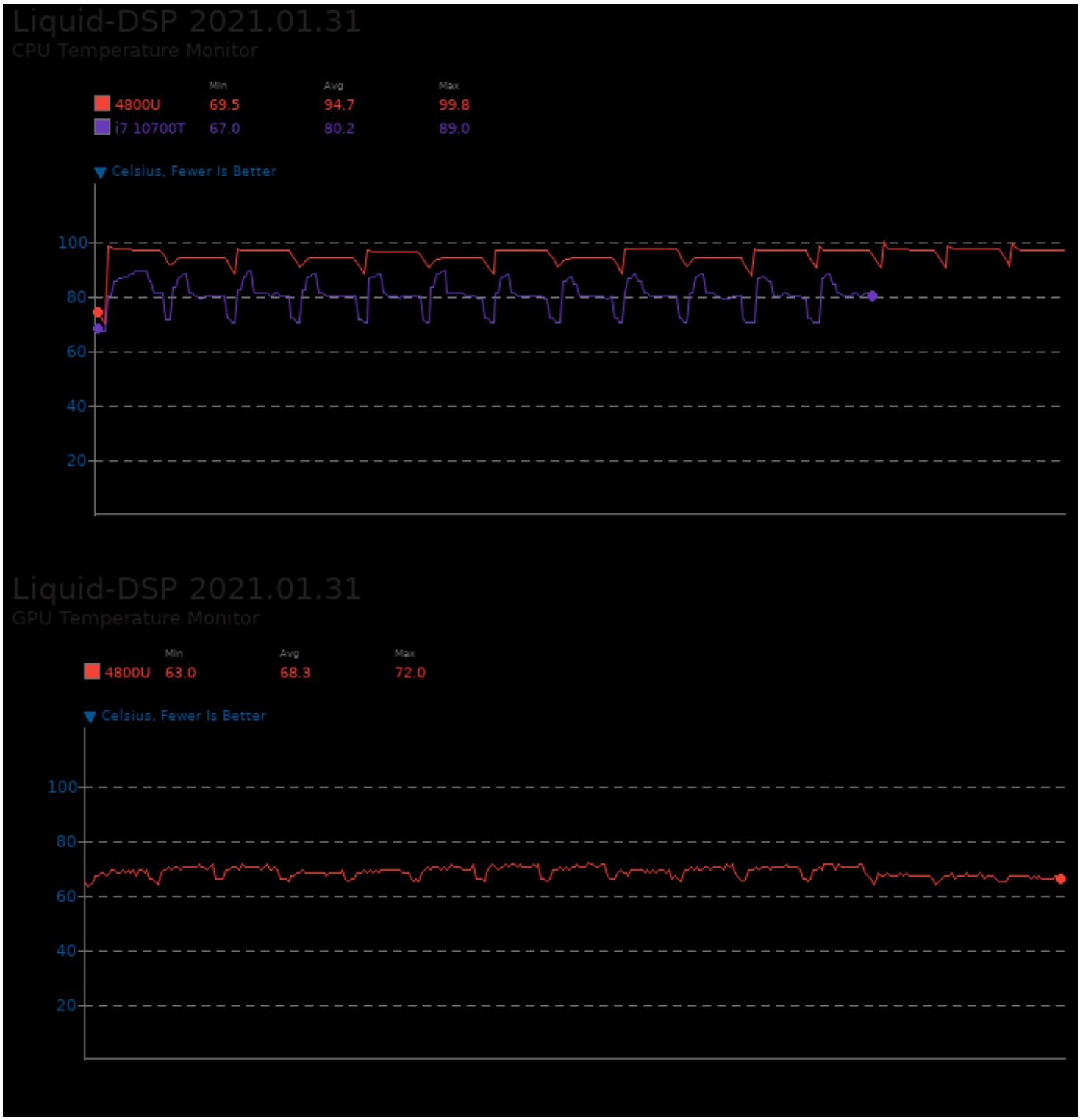

Liquid-DSP 2021.01.31
CPU Temperature Monitor
Min
Avg
Max
4800U 70.4 92.4 96.0
i7 10700T 69.0 81.5 85.0
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
GPU Temperature Monitor
Min
Avg
Max
4800U 67.0 67.7 69.0
Celsius, Fewer Is Better
100
80
60
40
20

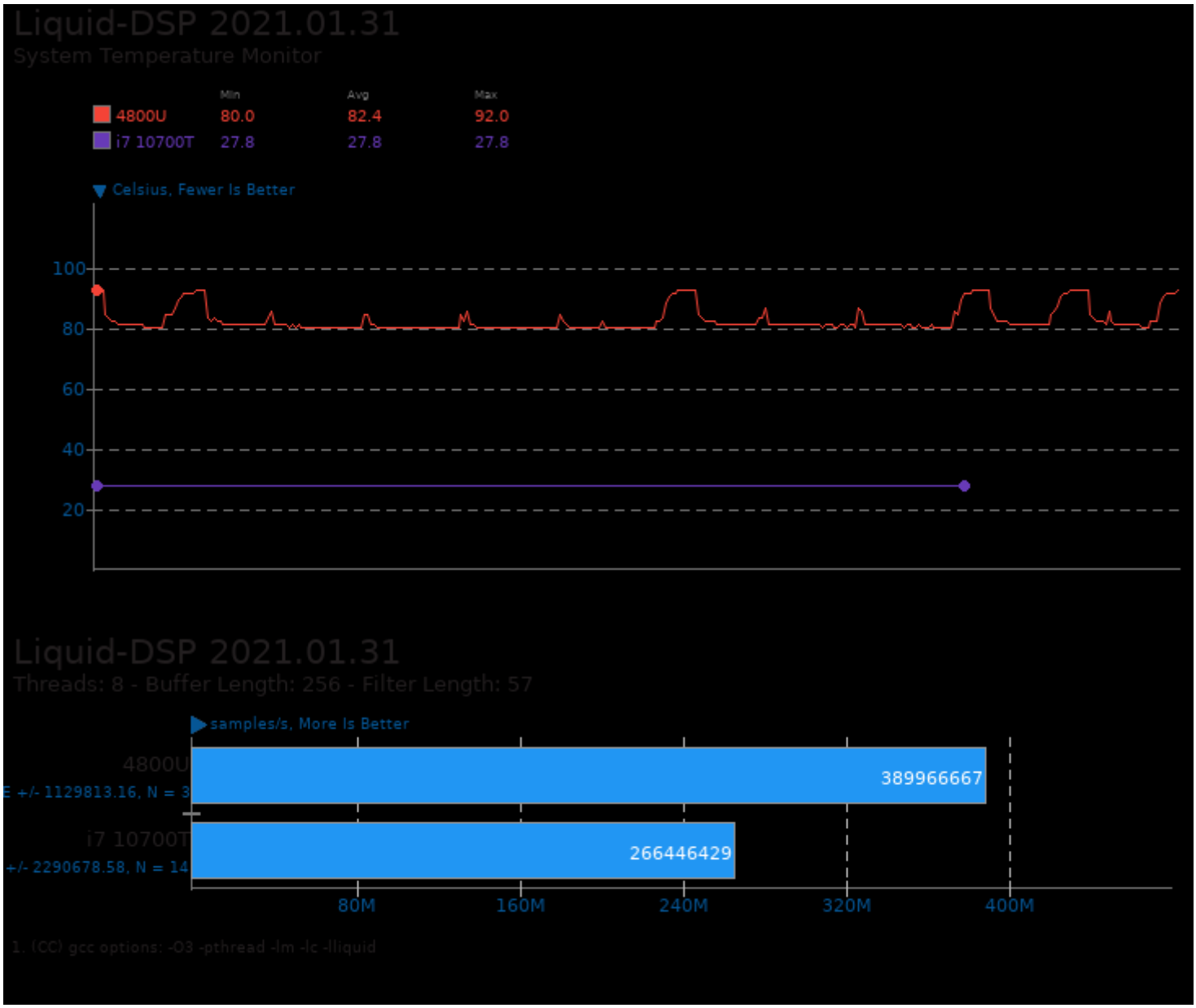

Liquid-DSP 2021.01.31
System Temperature Monitor
Min
Avg
Max
4800U
84.0
89.4
97.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
Threads: 2 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
4800U
SE +/- 132957.80, N = 3
117466667
i7 10700T
SE +/- 28869.44, N = 3
94687333
30M
60M
90M
120M
150M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

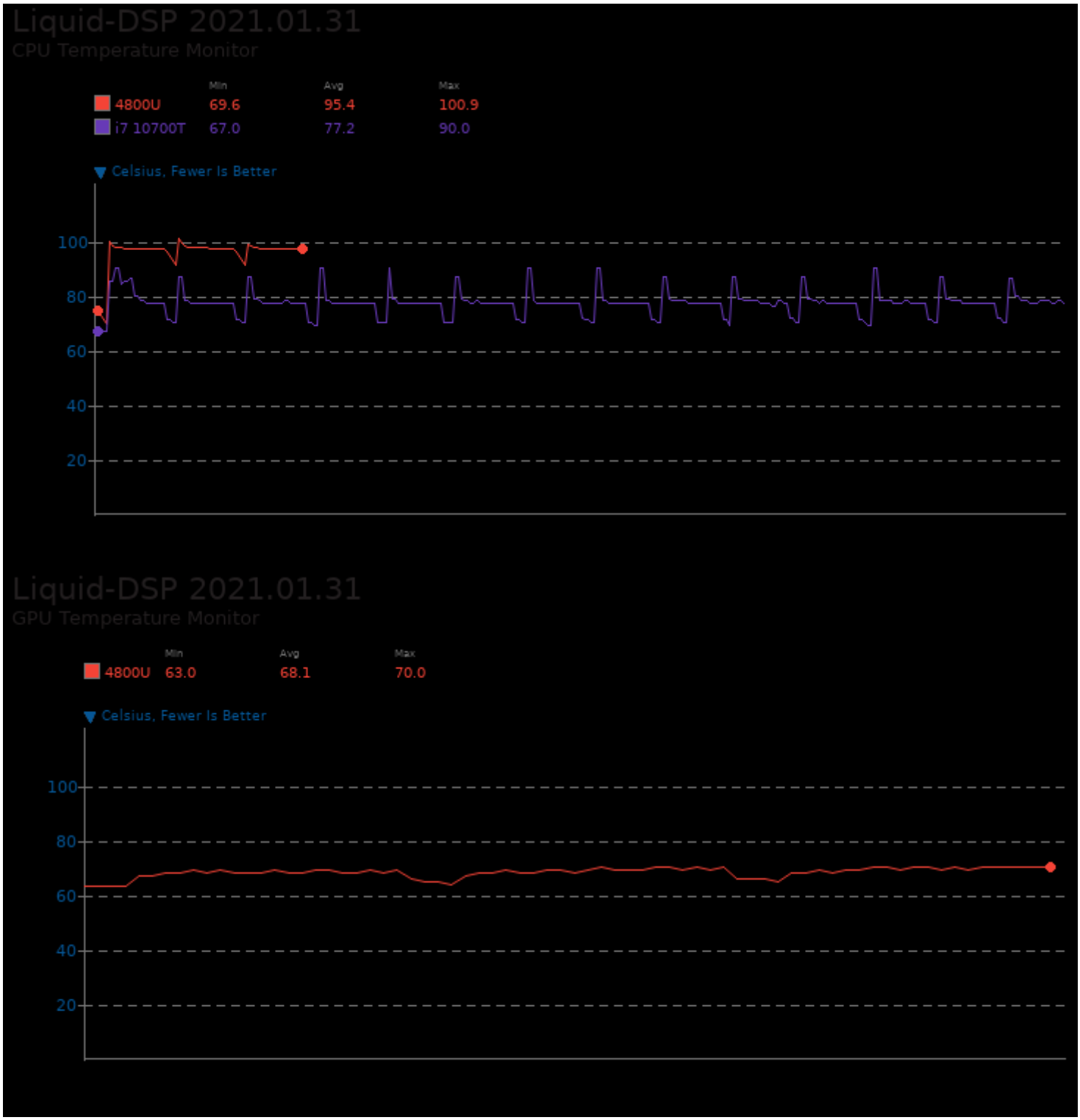

Liquid-DSP 2021.01.31
CPU Temperature Monitor
Min
Avg
Max
4800U 67.8 93.6 98.0
i7 10700T 66.0 81.5 86.0
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 67.8 70.0
Celsius, Fewer Is Better
100
80
60
40
20

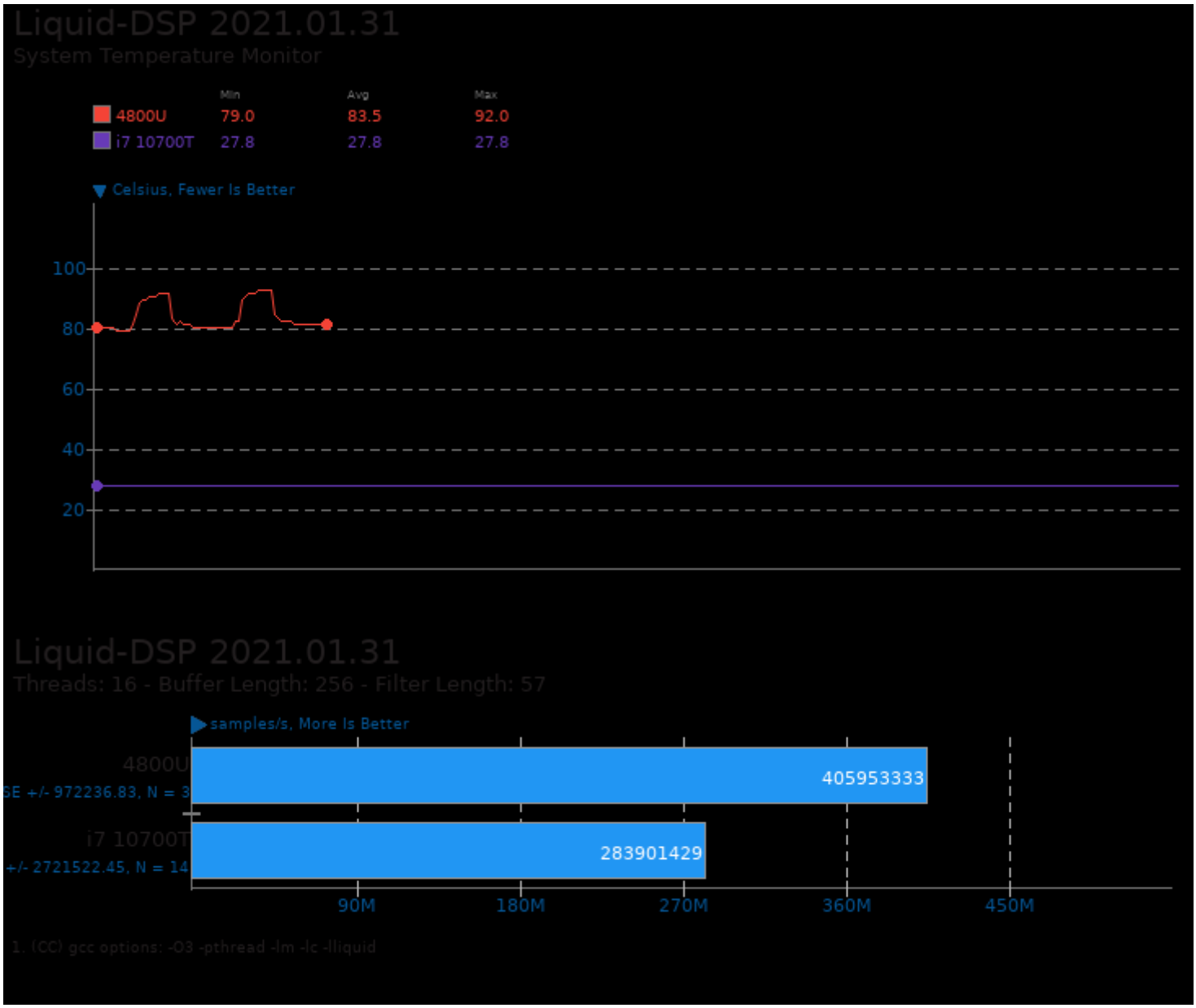

Liquid-DSP 2021.01.31
System Temperature Monitor
Min
Avg
Max
4800U
80.0
81.6
87.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
Threads: 4 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
4800U
+/- 3106625.21, N = 15
220508000
i7 10700T
+/- 1362563.01, N = 12
167839167
50M
100M
150M
200M
250M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

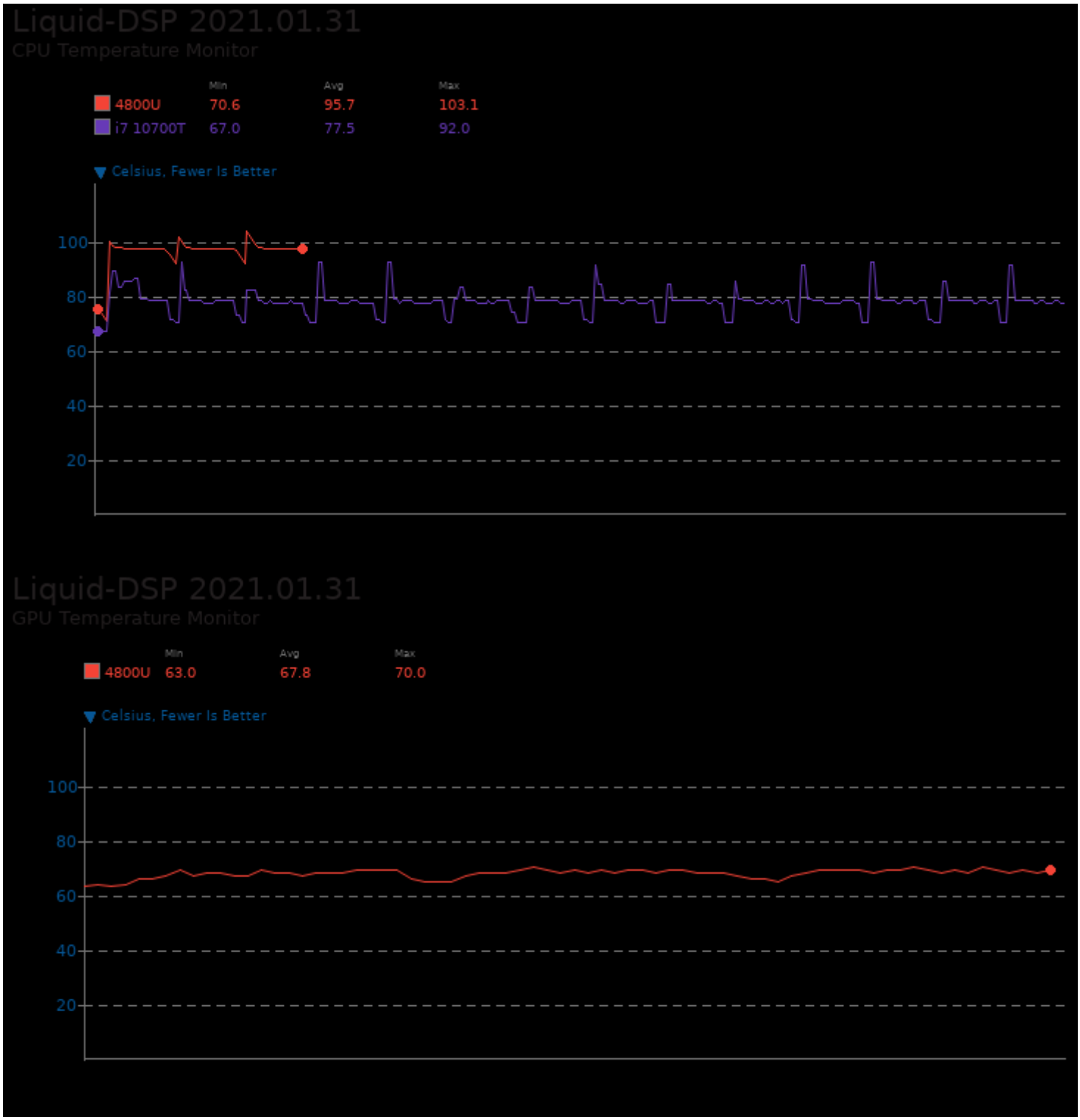
OnLogic Ryzen 4800U

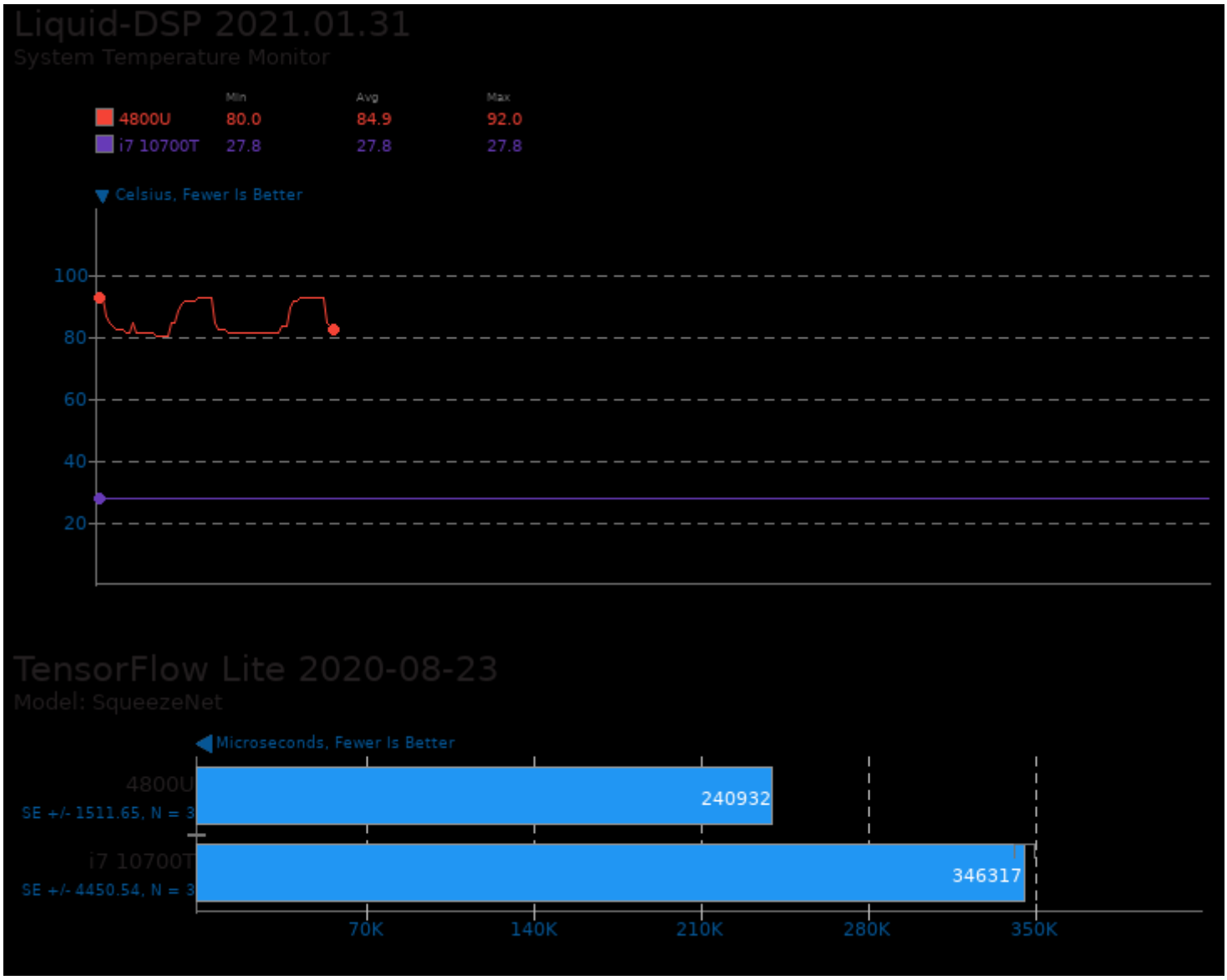


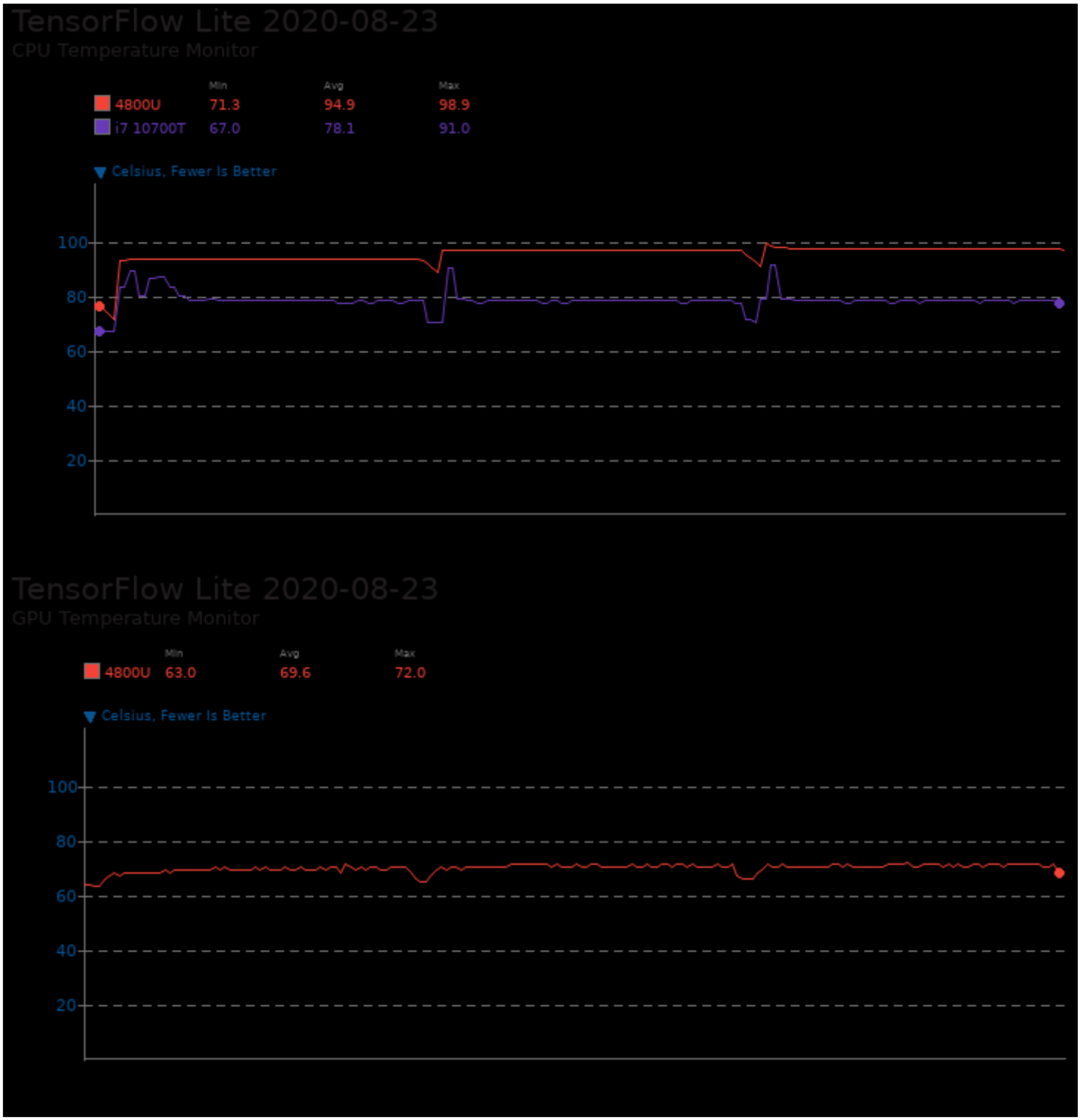

Liquid-DSP 2021.01.31
System Temperature Monitor
Min
Avg
Max
4800U
80.0
82.4
92.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
Threads: 8 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
4800U
+/- 1129813.16, N = 3
389966667
i7 10700T
+/- 2290678.58, N = 14
266446429
80M
160M
240M
320M
400M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

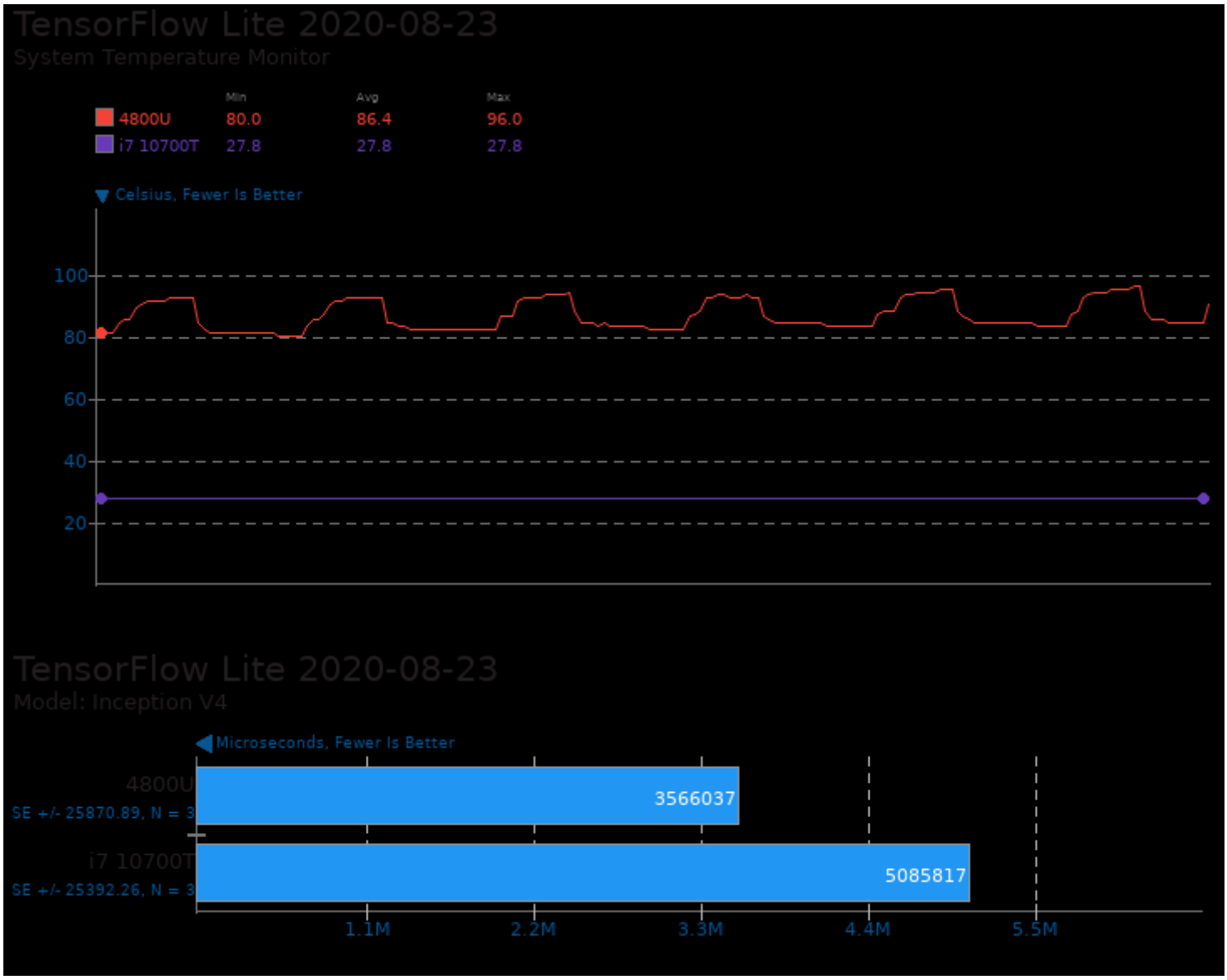

Liquid-DSP 2021.01.31
CPU Temperature Monitor
Min
Avg
Max
4800U 69.6 95.4 100.9
i7 10700T 67.0 77.2 90.0
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 68.1 70.0
Celsius, Fewer Is Better
100
80
60
40
20

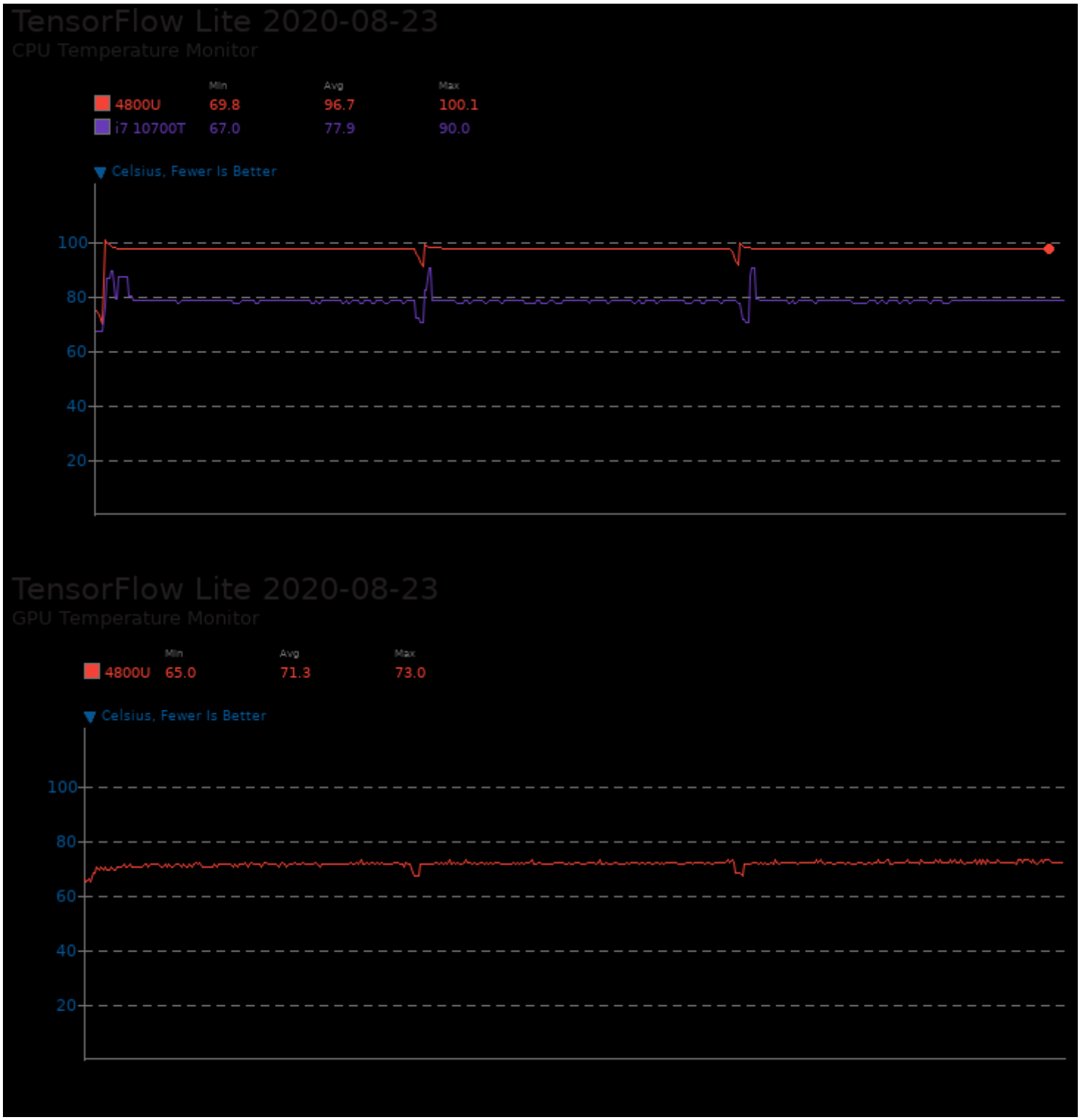

Liquid-DSP 2021.01.31
System Temperature Monitor
Min
Avg
Max
4800U
79.0
83.5
92.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
Threads: 16 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
4800U
SE +/- 972236.83, N = 3
405953333
i7 10700T
+/- 2721522.45, N = 14
283901429
90M
180M
270M
360M
450M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

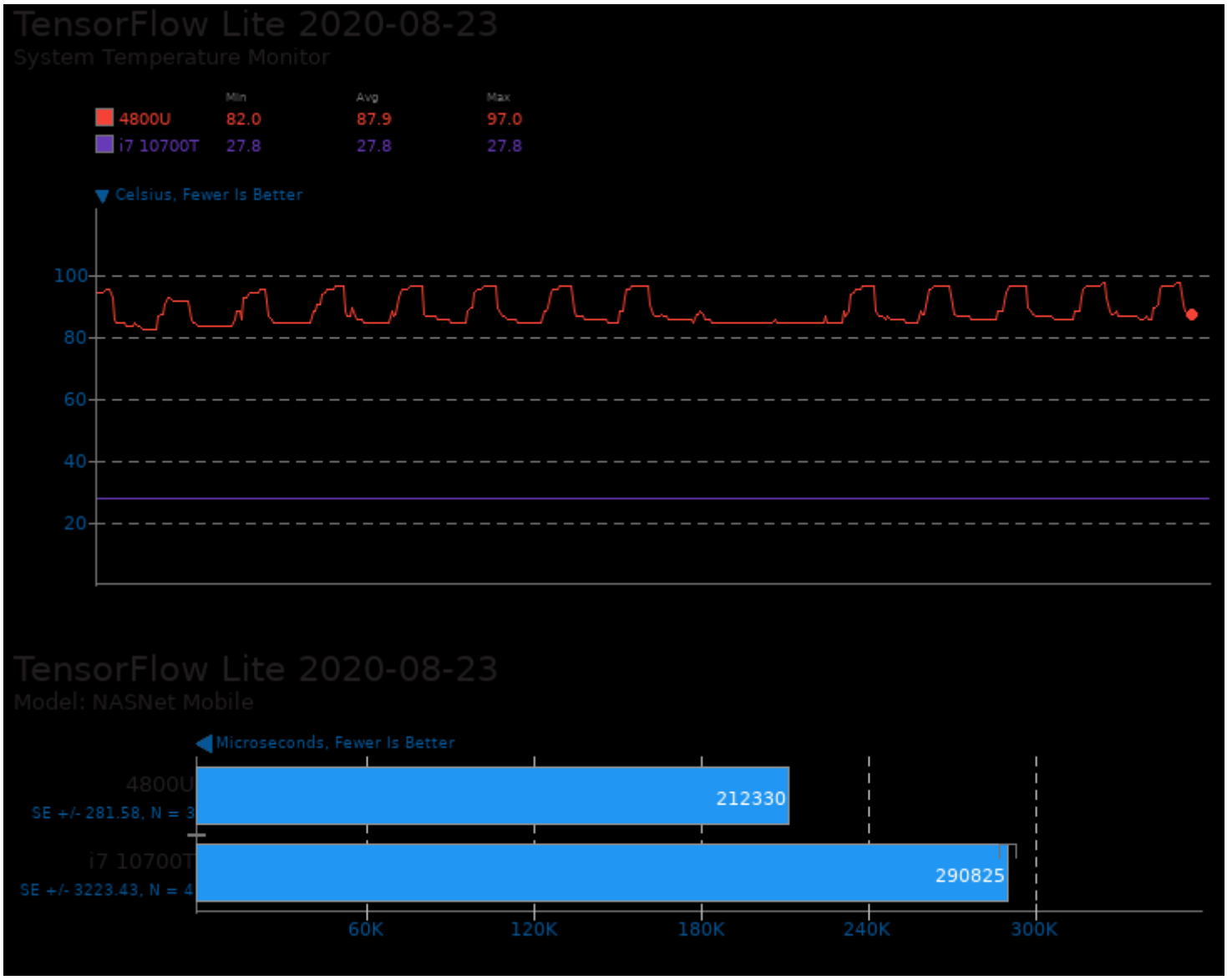

Liquid-DSP 2021.01.31
CPU Temperature Monitor
Min
Avg
Max
4800U 70.6 95.7 103.1
i7 10700T 67.0 77.5 92.0
Celsius, Fewer Is Better
100
80
60
40
20
Liquid-DSP 2021.01.31
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 67.8 70.0
Celsius, Fewer Is Better
100
80
60
40
20


Liquid-DSP 2021.01.31
System Temperature Monitor
Min
Avg
Max
4800U
80.0
84.9
92.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: SqueezeNet
Microseconds, Fewer Is Better
4800U
SE +/- 1511.65, N = 3
240932
i7 10700T
SE +/- 4450.54, N = 3
346317
70K
140K
210K
280K
350K


TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
4800U 71.3 94.9 98.9
i7 10700T 67.0 78.1 91.0
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 69.6 72.0
Celsius, Fewer Is Better
100
80
60
40
20

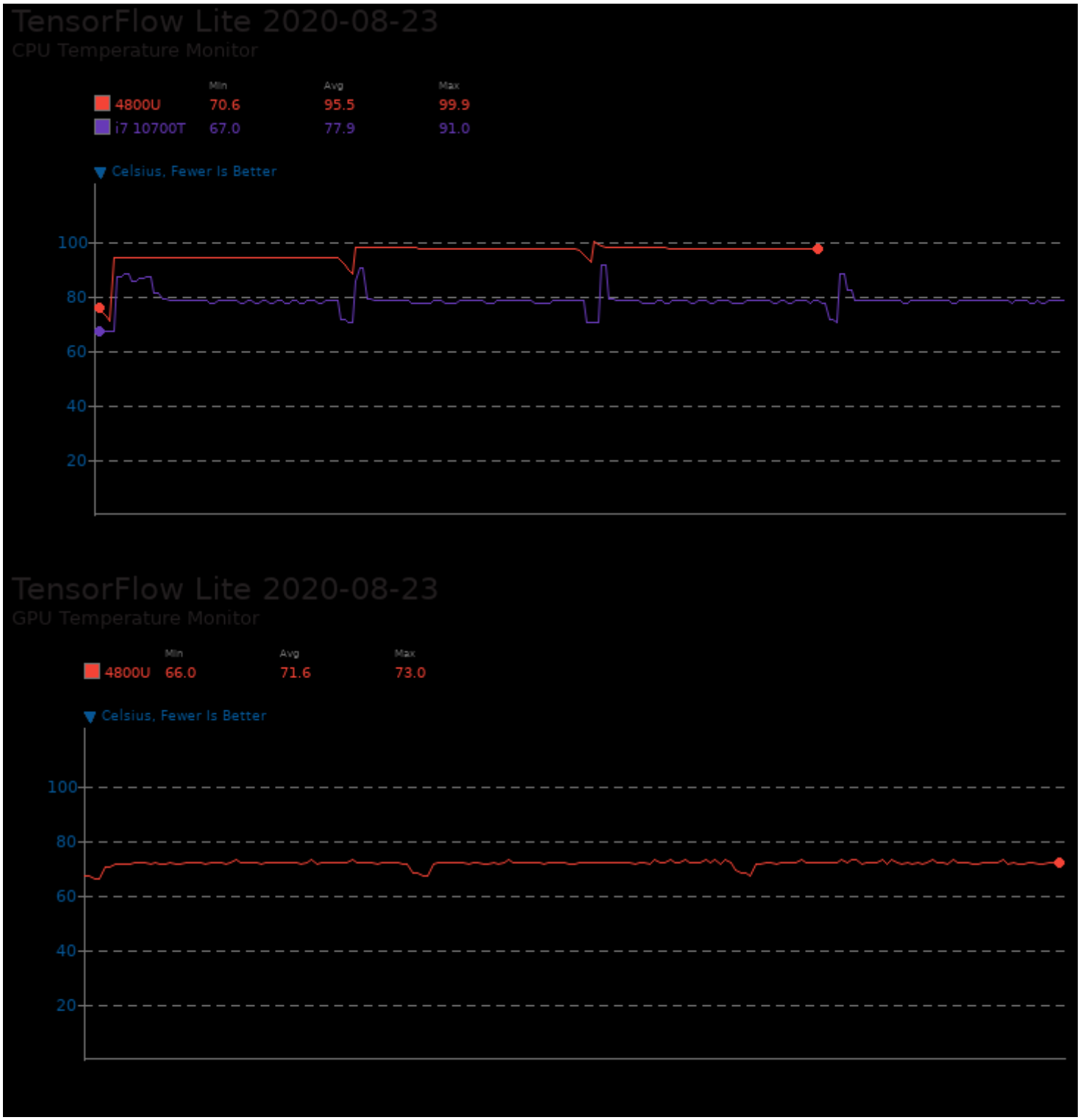

TensorFlow Lite 2020-08-23
System Temperature Monitor
Min
Avg
Max
4800U
80.0
86.4
96.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: Inception V4
Microseconds, Fewer Is Better
4800U
SE +/- 25870.89, N = 3
3566037
i7 10700T
SE +/- 25392.26, N = 3
5085817
1.1M
2.2M
3.3M
4.4M
5.5M


TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
4800U 69.8 96.7 100.1
i7 10700T 67.0 77.9 90.0
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
GPU Temperature Monitor
Min
Avg
Max
4800U 65.0 71.3 73.0
Celsius, Fewer Is Better
100
80
60
40
20

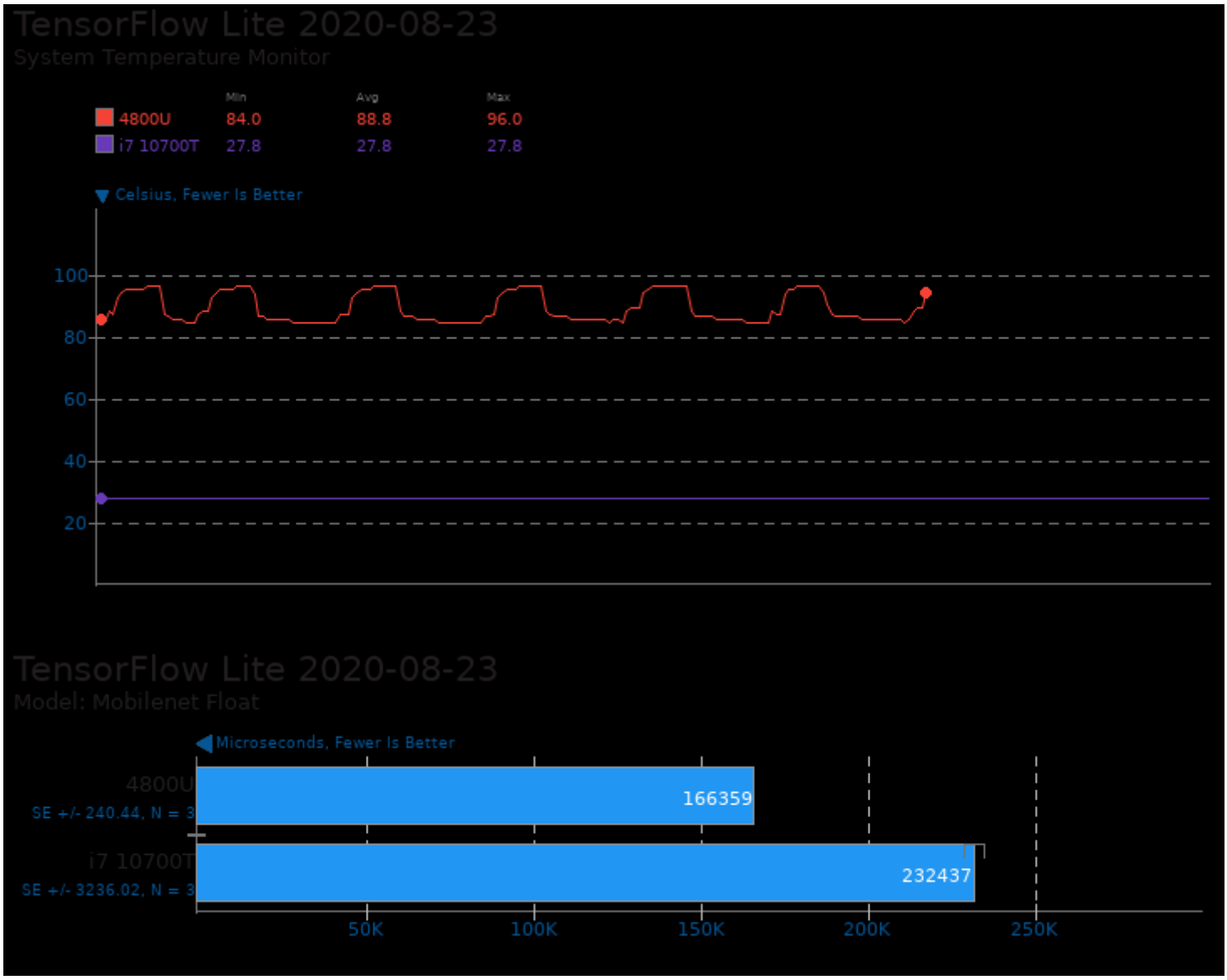

TensorFlow Lite 2020-08-23
System Temperature Monitor
Min
Avg
Max
4800U
82.0
87.9
97.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20

TensorFlow Lite 2020-08-23
Model: NASNet Mobile
Microseconds, Fewer Is Better
4800U
SE +/- 281.58, N = 3
212330
i7 10700T
SE +/- 3223.43, N = 4
290825
60K
120K
180K
240K
300K

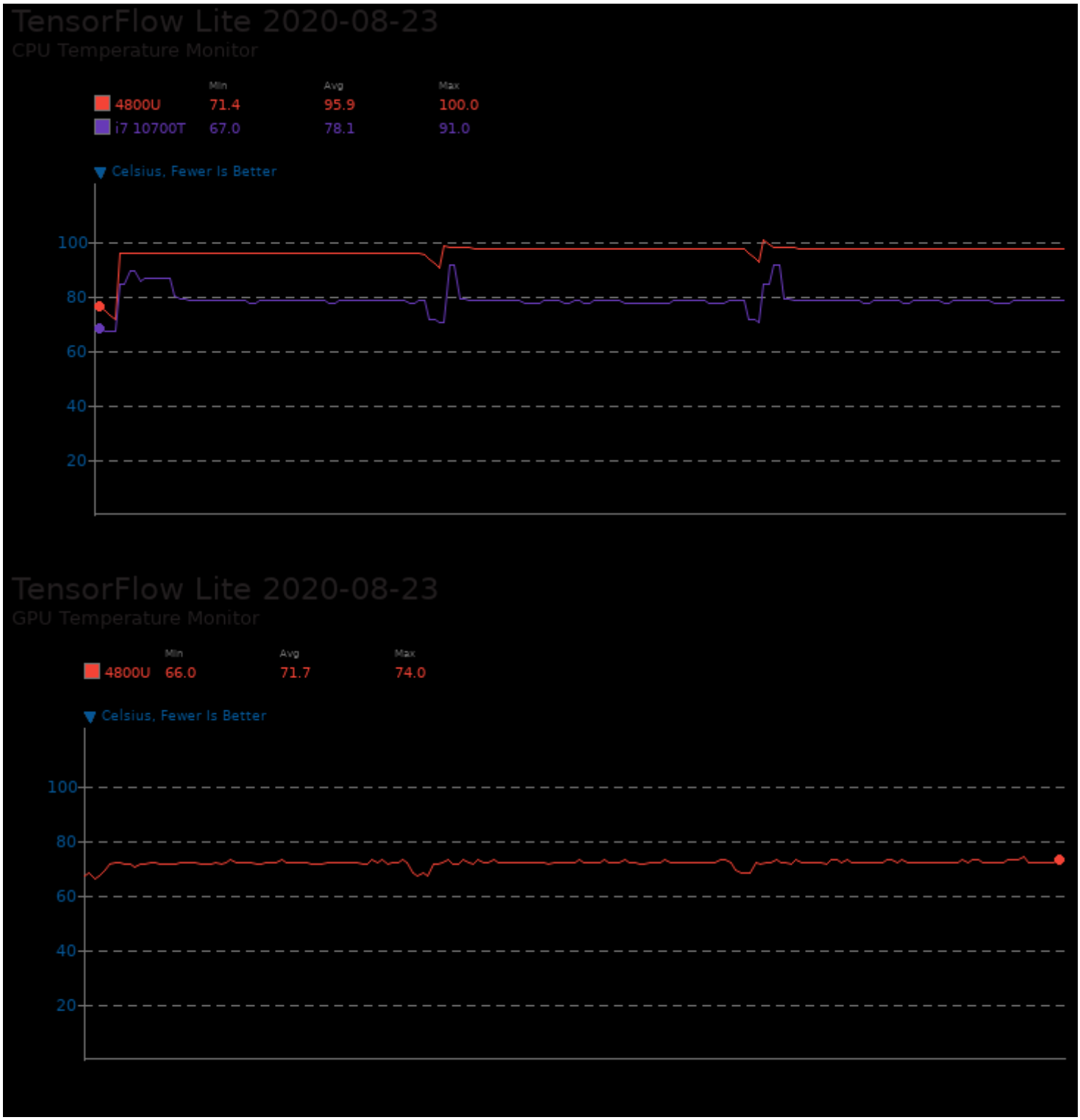
OnLogic Ryzen 4800U

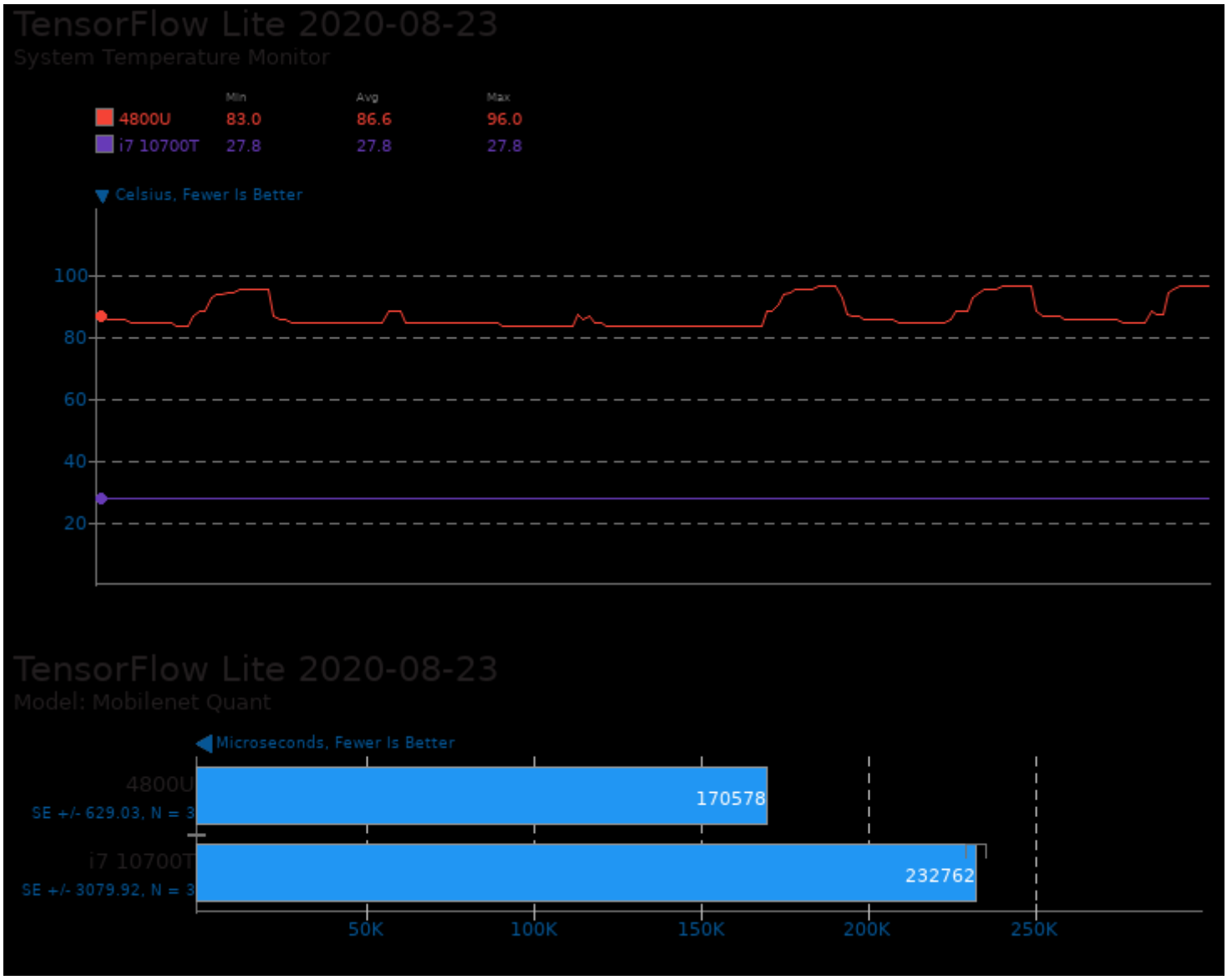


OnLogic Ryzen 4800U

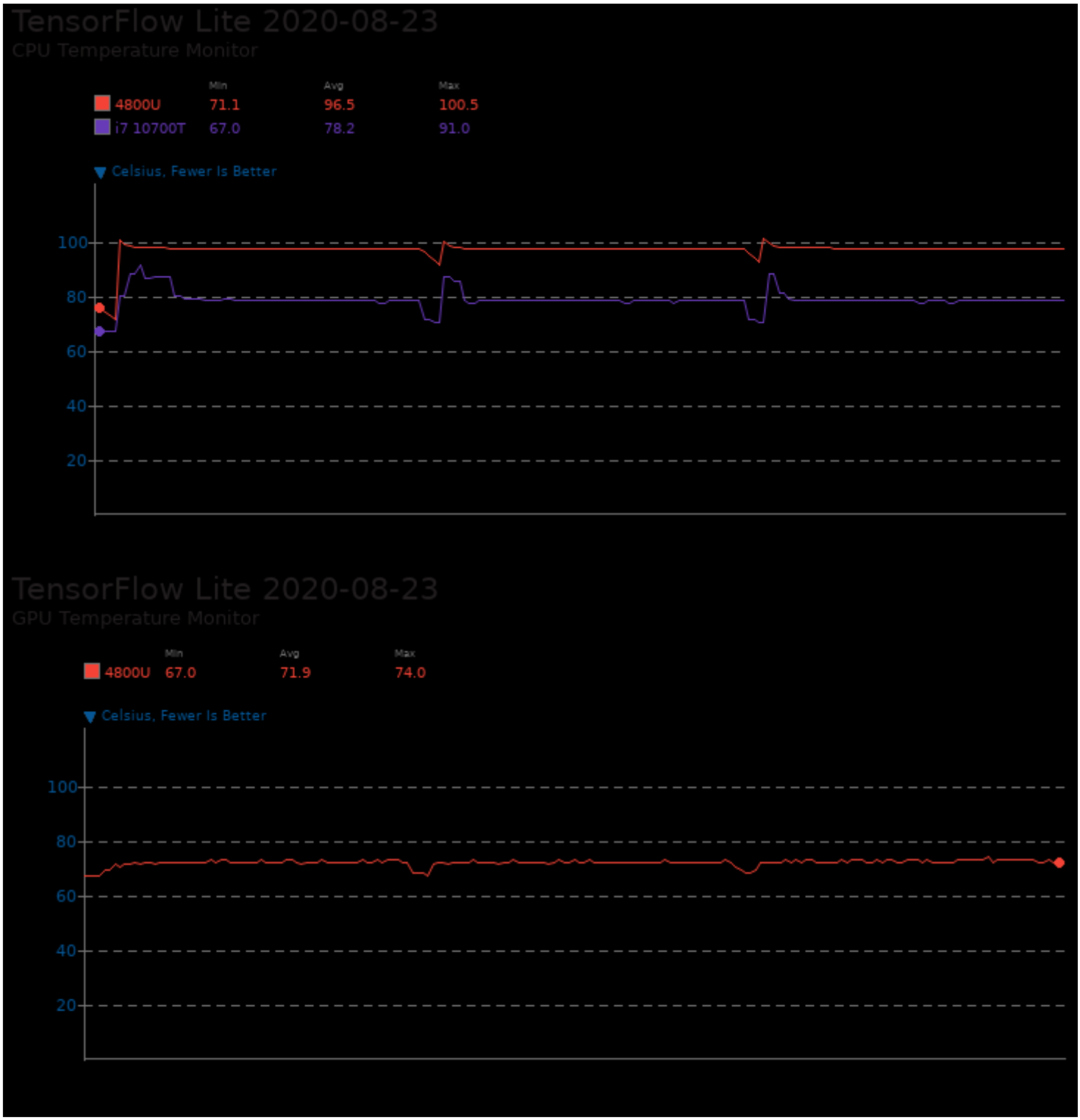


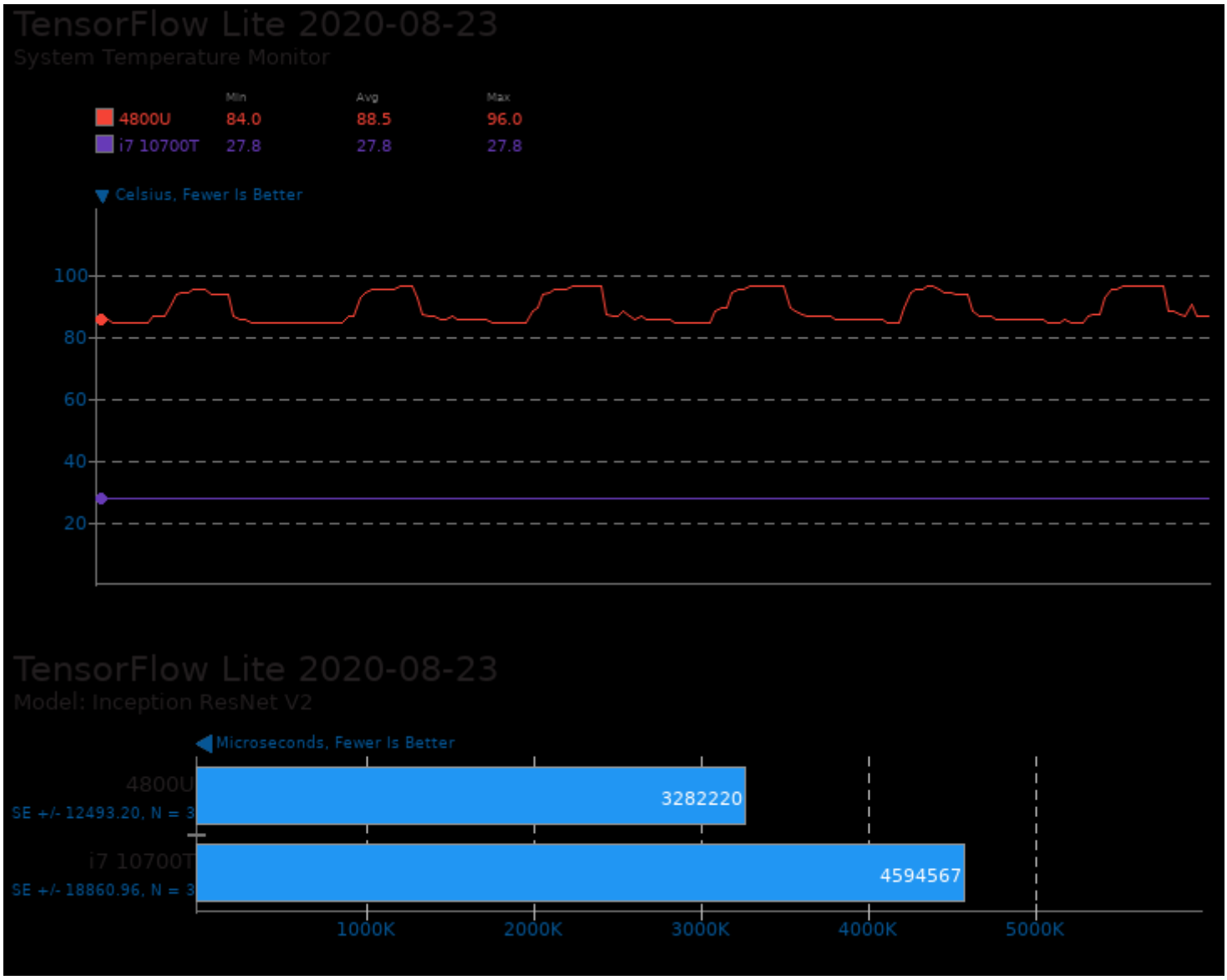
OnLogic Ryzen 4800U

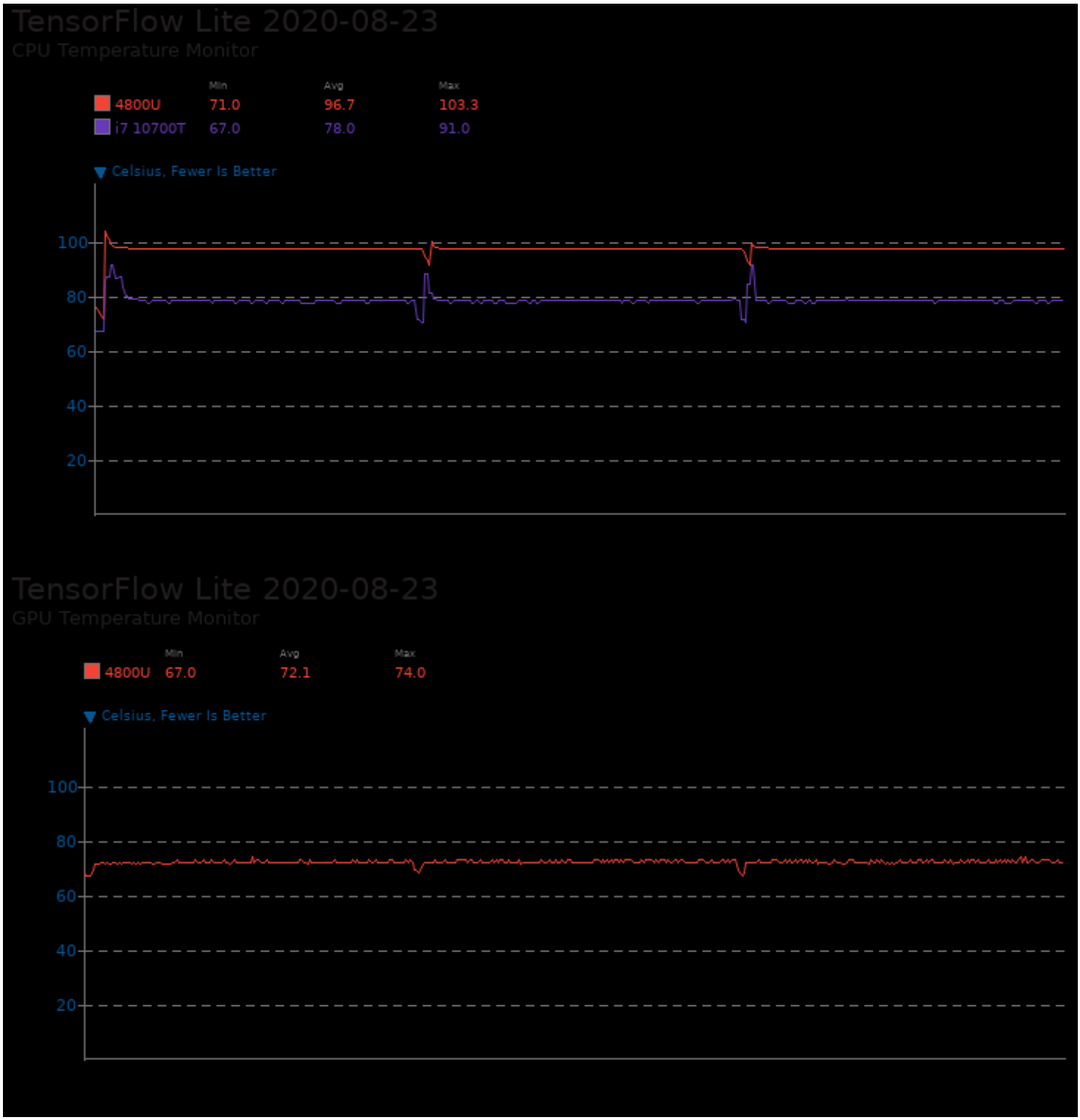


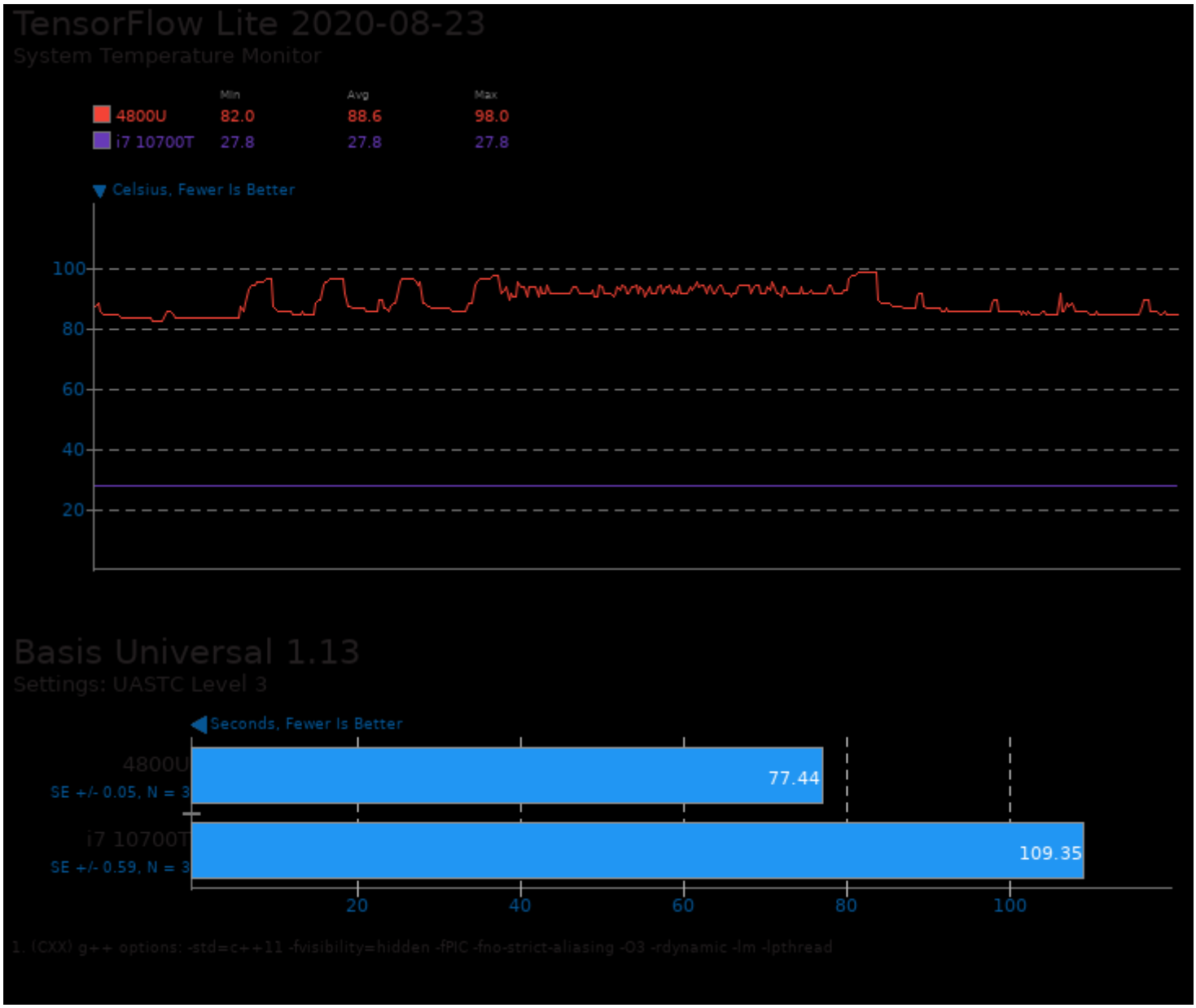

TensorFlow Lite 2020-08-23
System Temperature Monitor
Min
Avg
Max
4800U
83.0
86.6
96.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: Mobilenet Quant
Microseconds, Fewer Is Better
4800U
SE +/- 629.03, N = 3
170578
i7 10700T
SE +/- 3079.92, N = 3
232762
50K
100K
150K
200K
250K

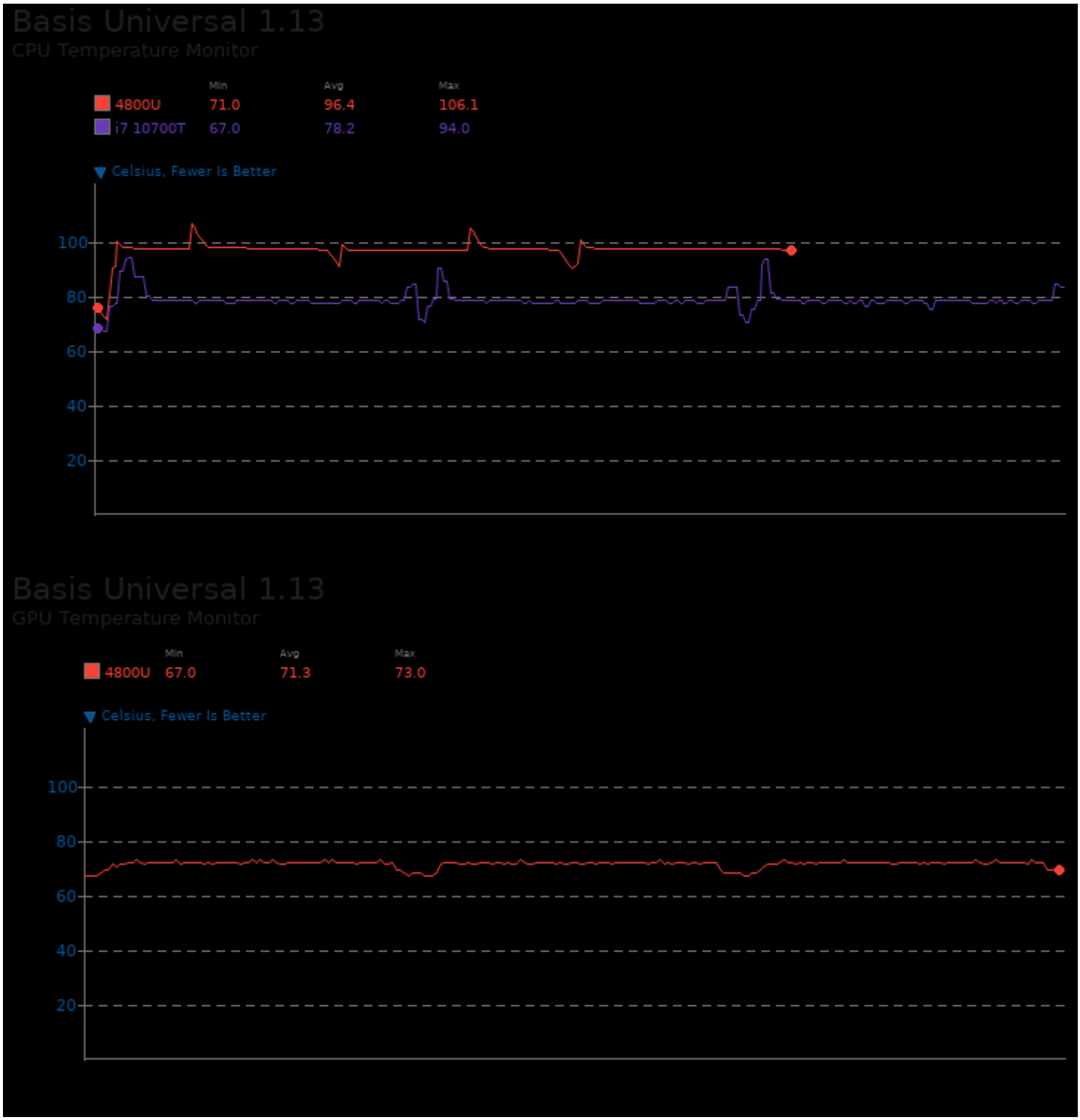
OnLogic Ryzen 4800U

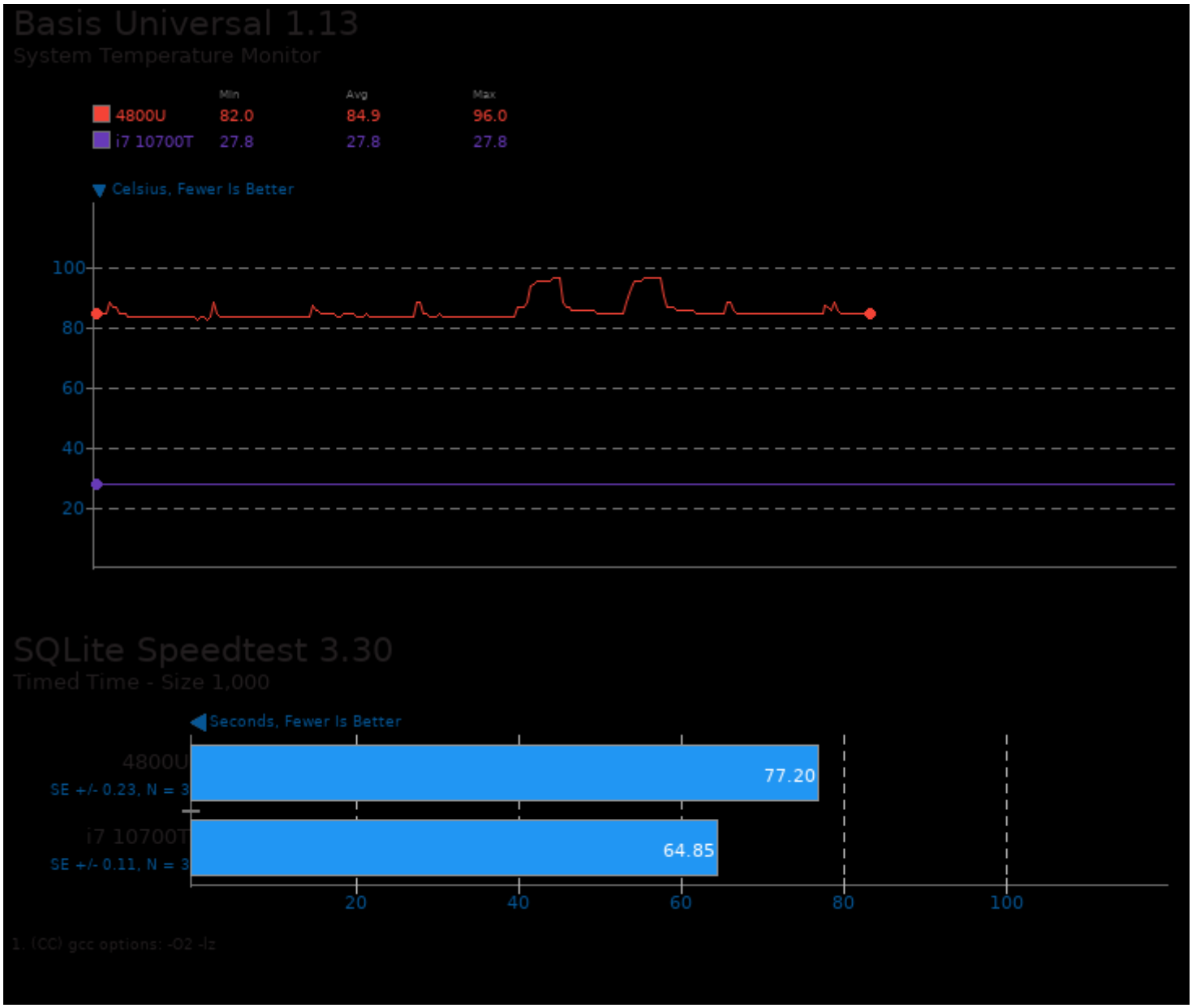


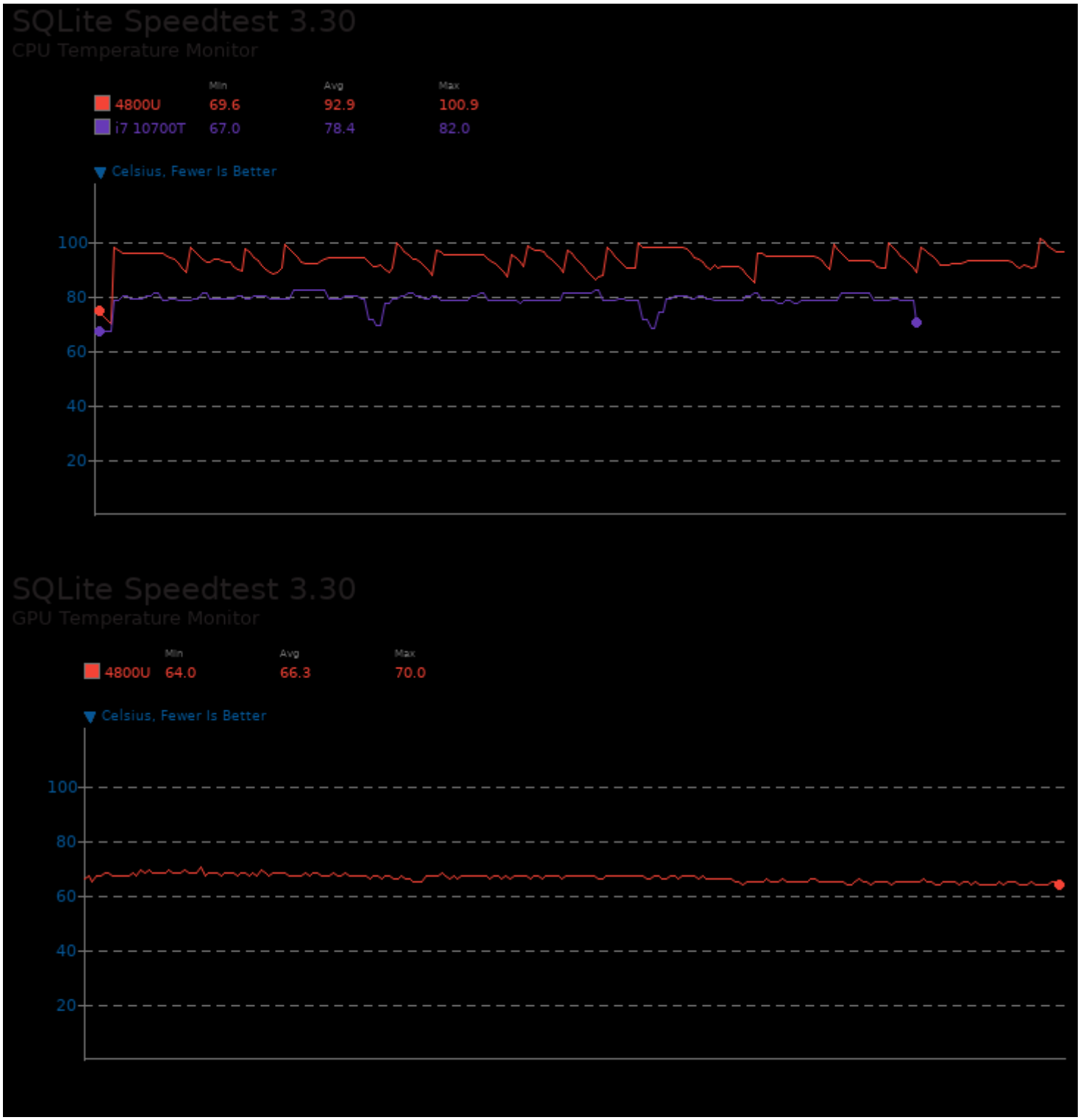

TensorFlow Lite 2020-08-23
System Temperature Monitor
Min
Avg
Max
4800U
84.0
88.5
96.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
Model: Inception ResNet V2
Microseconds, Fewer Is Better
4800U
SE +/- 12493.20, N = 3
3282220
i7 10700T
SE +/- 18860.96, N = 3
4594567
1000K
2000K
3000K
4000K
5000K

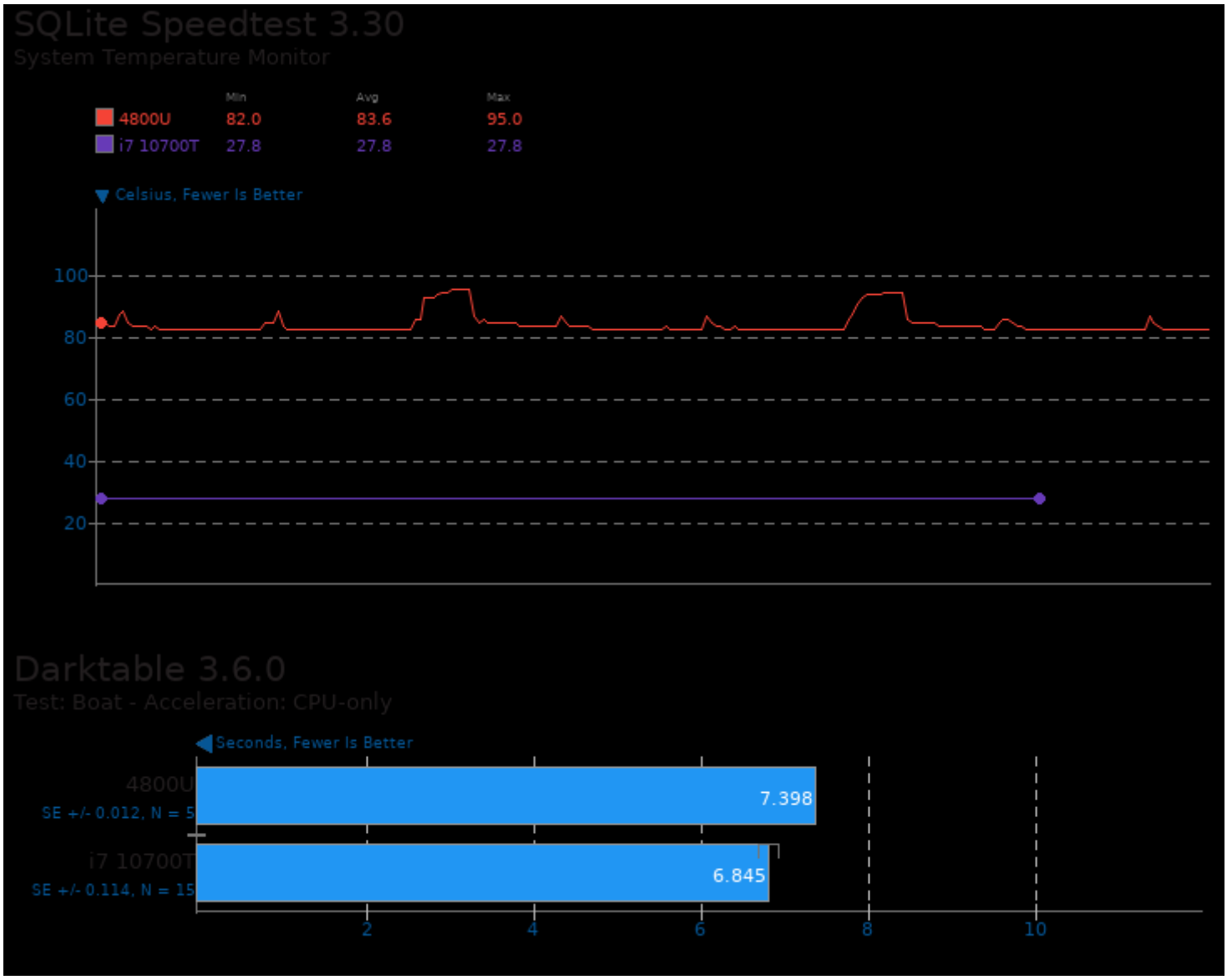

TensorFlow Lite 2020-08-23
CPU Temperature Monitor
Min
Avg
Max
4800U 71.0 96.7 103.3
i7 10700T 67.0 78.0 91.0
Celsius, Fewer Is Better
100
80
60
40
20
TensorFlow Lite 2020-08-23
GPU Temperature Monitor
Min
Avg
Max
4800U 67.0 72.1 74.0
Celsius, Fewer Is Better
100
80
60
40
20


TensorFlow Lite 2020-08-23
System Temperature Monitor
Min
Avg
Max
4800U
82.0
88.6
98.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Basis Universal 1.13
Settings: UASTC Level 3
Seconds, Fewer Is Better
4800U
SE +/- 0.05, N = 3
77.44
i7 10700T
SE +/- 0.59, N = 3
109.35
20
40
60
80
100
1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

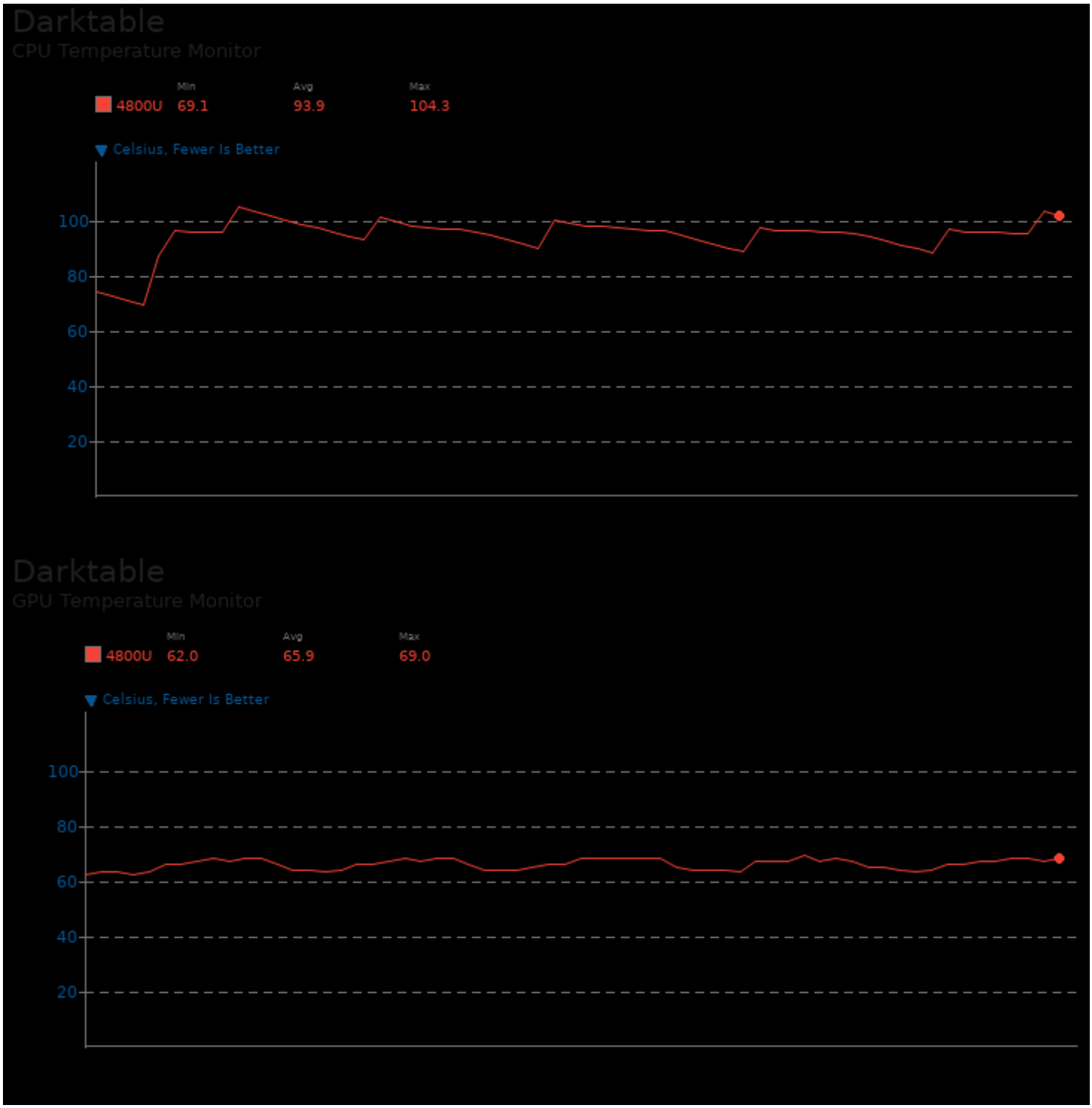

Basis Universal 1.13
CPU Temperature Monitor
Min
Avg
Max
4800U
71.0
96.4
106.1
i7 10700T
67.0
78.2
94.0
Celsius, Fewer Is Better
100
80
60
40
20
Basis Universal 1.13
GPU Temperature Monitor
Min
Avg
Max
4800U
67.0
71.3
73.0
Celsius, Fewer Is Better
100
80
60
40
20

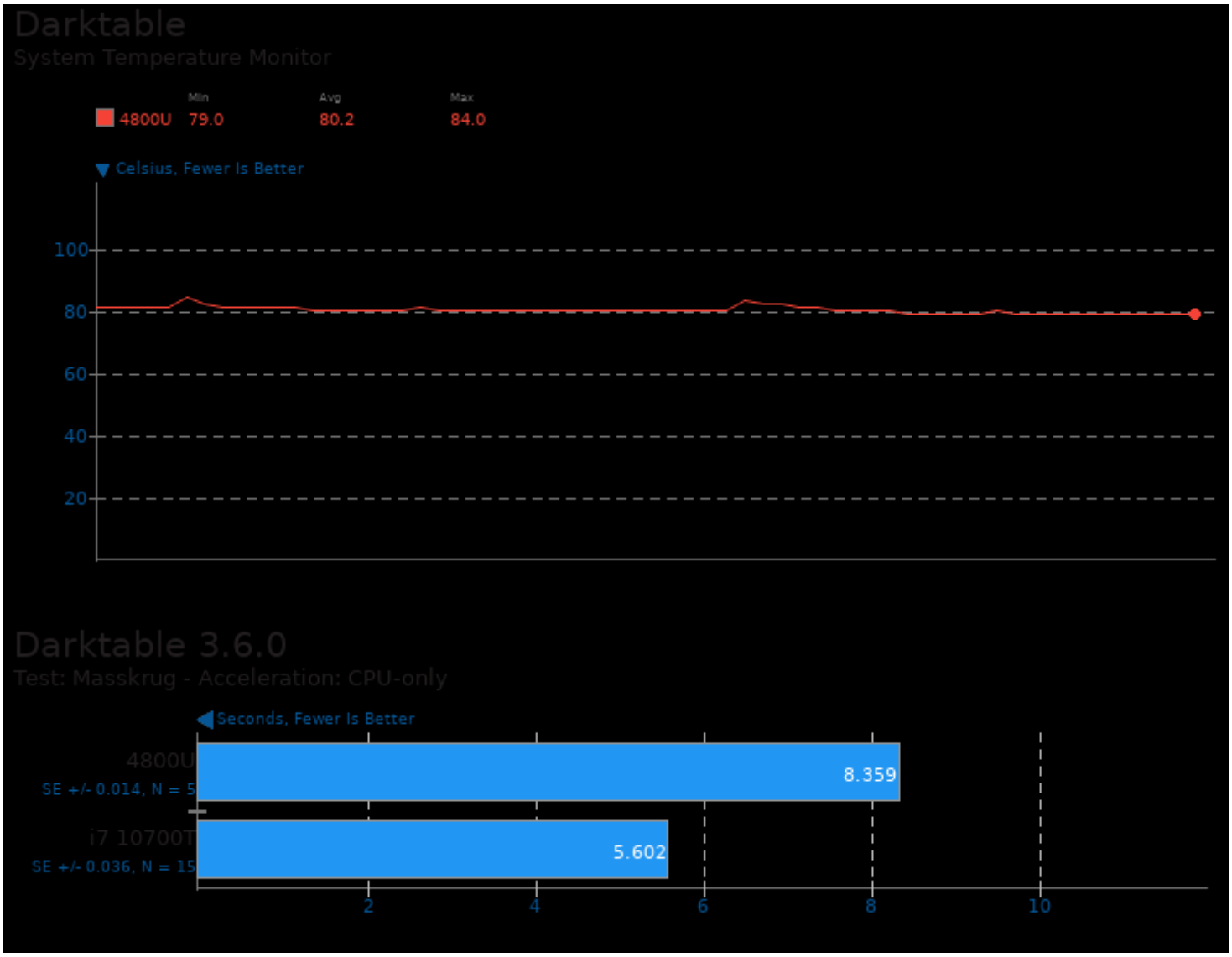

Basis Universal 1.13
System Temperature Monitor
Min
Avg
Max
4800U
82.0
84.9
96.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
SQLite Speedtest 3.30
Timed Time - Size 1,000
Seconds, Fewer Is Better
4800U
SE +/- 0.23, N = 3
77.20
i7 10700T
SE +/- 0.11, N = 3
64.85
20
40
60
80
100
1. (CC) gcc options: -O2 -lz


SQLite Speedtest 3.30
CPU Temperature Monitor
Min
Avg
Max
4800U 69.6 92.9 100.9
i7 10700T 67.0 78.4 82.0
Celsius, Fewer Is Better
100
80
60
40
20
SQLite Speedtest 3.30
GPU Temperature Monitor
Min
Avg
Max
4800U 64.0 66.3 70.0
Celsius, Fewer Is Better
100
80
60
40
20

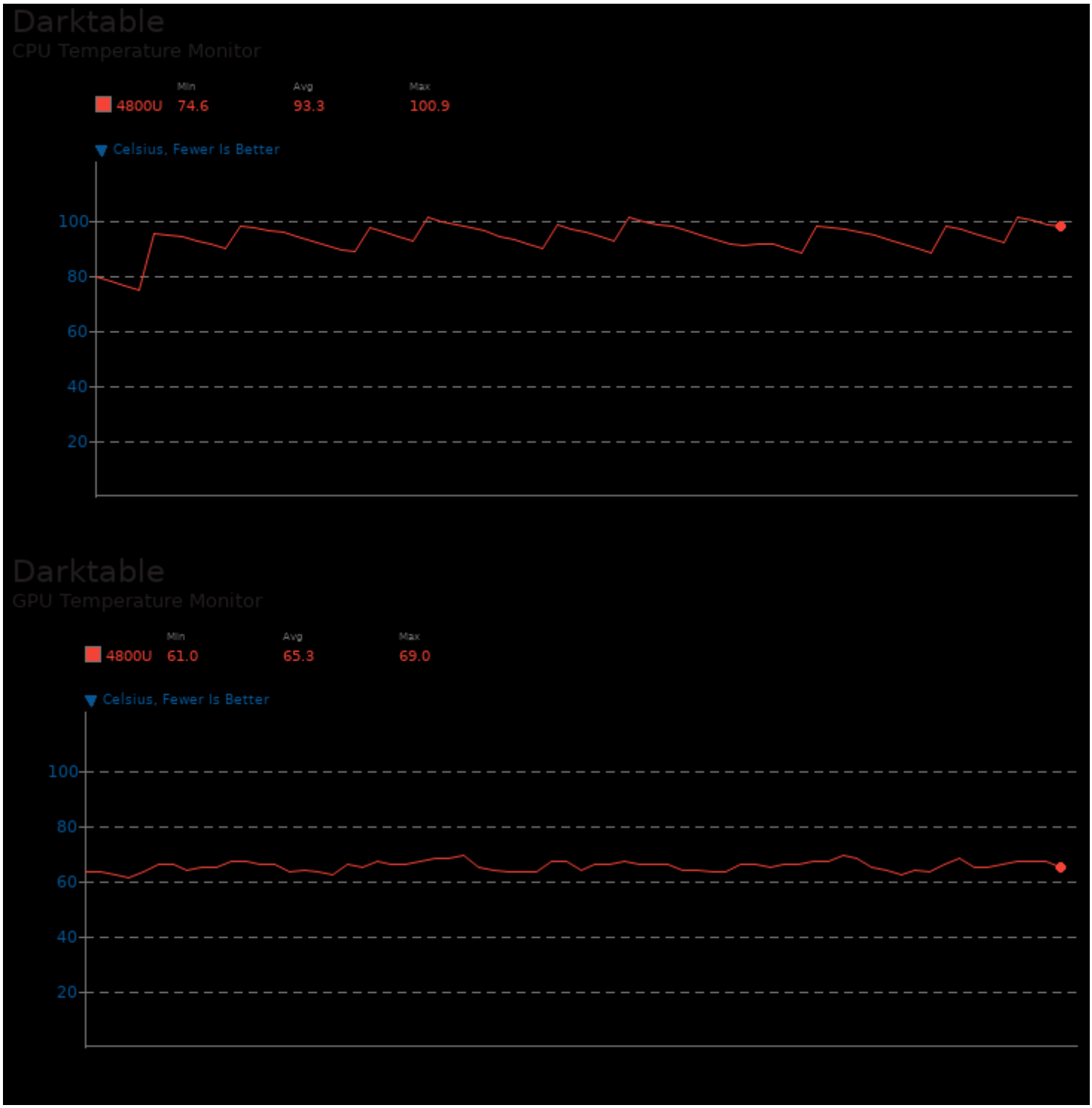

SQLite Speedtest 3.30
System Temperature Monitor
Min
Avg
Max
4800U
82.0
83.6
95.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Darktable 3.6.0
Test: Boat - Acceleration: CPU-only
Seconds, Fewer Is Better
4800U
SE +/- 0.012, N = 5
7.398
i7 10700T
SE +/- 0.114, N = 15
6.845
2
4
6
8
10

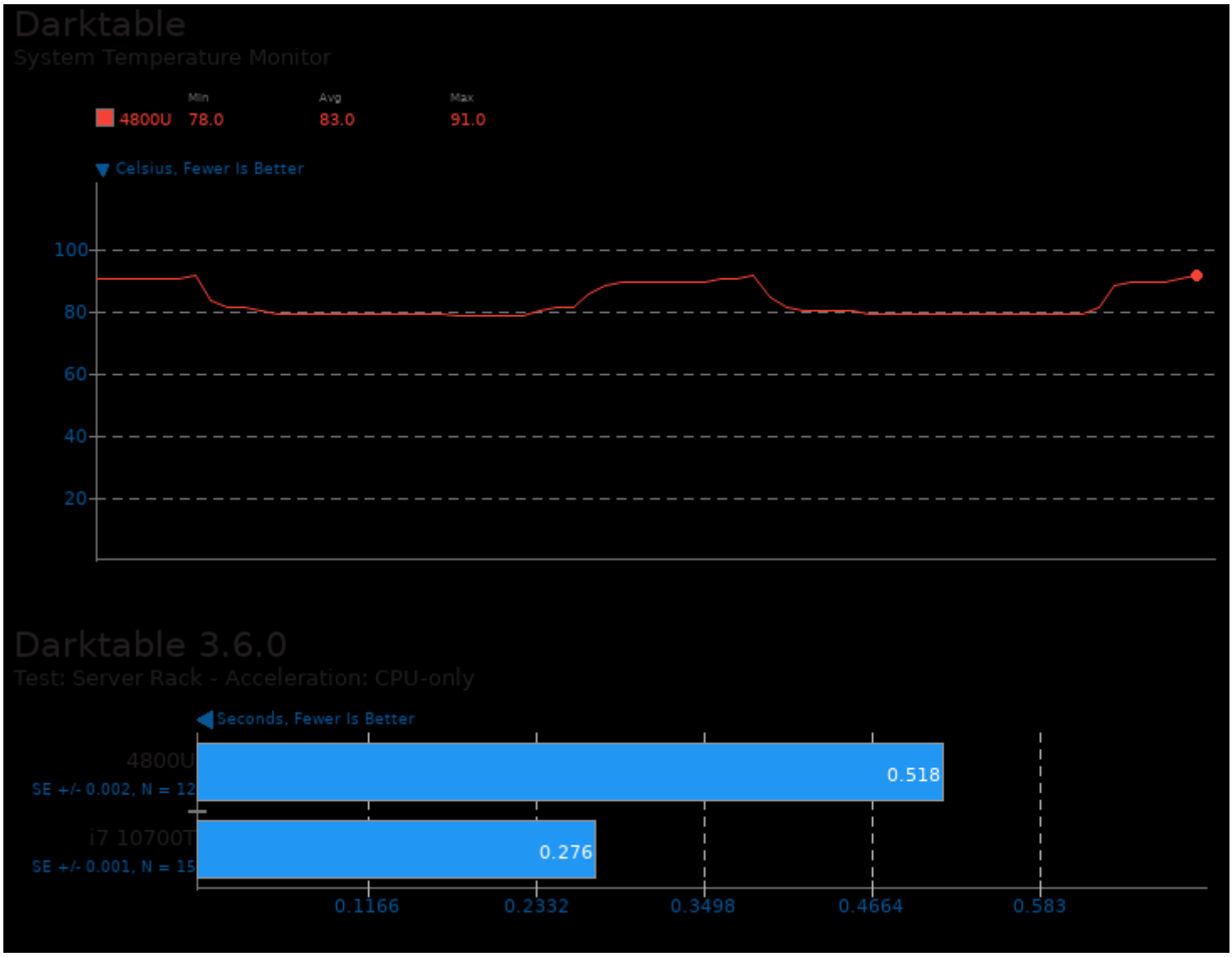
OnLogic Ryzen 4800U



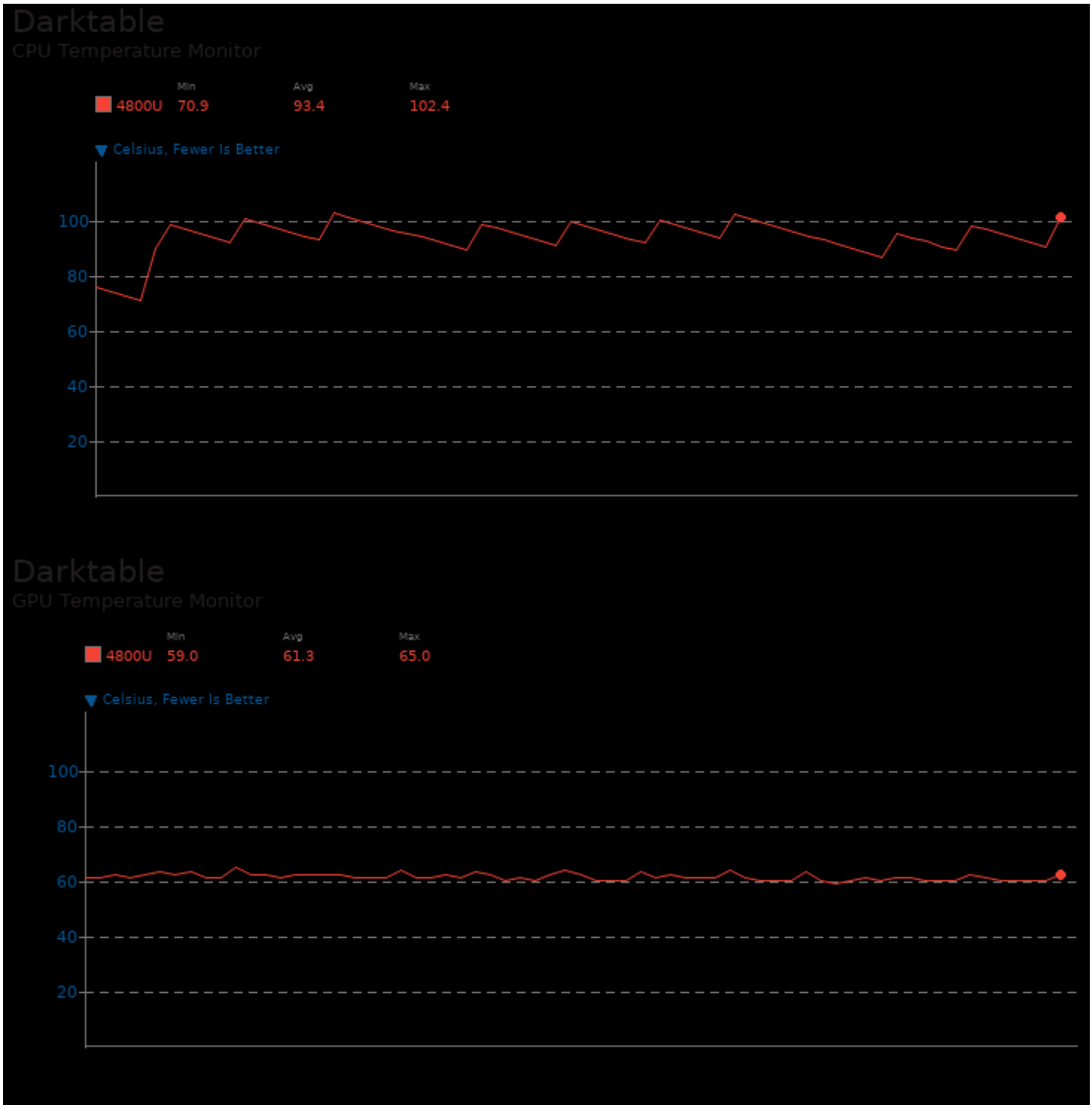

Darktable
System Temperature Monitor
Min
Avg
Max
4800U 79.0 80.2 84.0
Celsius, Fewer Is Better
100
80
60
40
20
Darktable 3.6.0
Test: Masskrug - Acceleration: CPU-only
Seconds, Fewer Is Better
4800U
SE +/- 0.014, N = 5
8.359
i7 10700T
SE +/- 0.036, N = 15
5.602
2
4
6
8
10

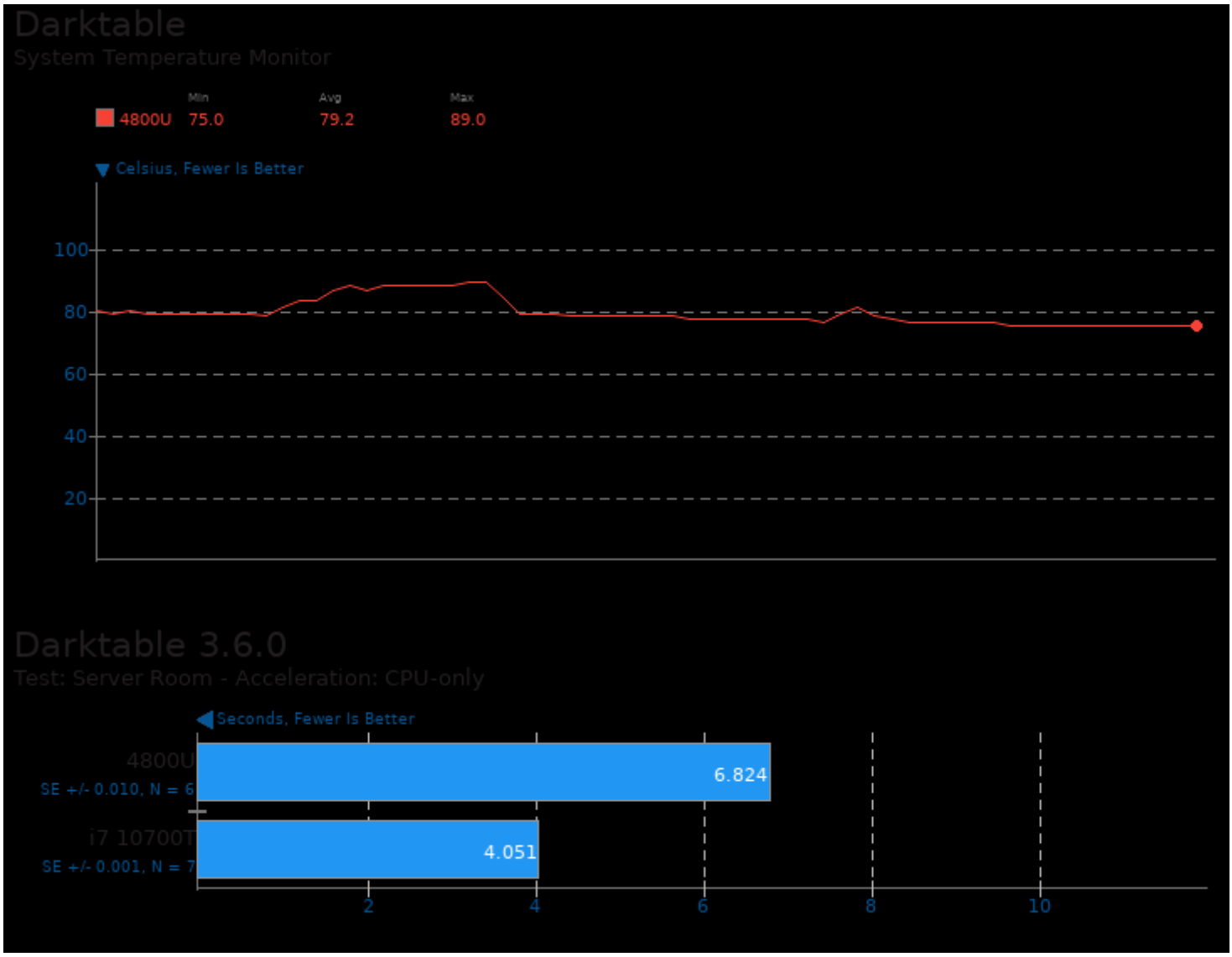
OnLogic Ryzen 4800U

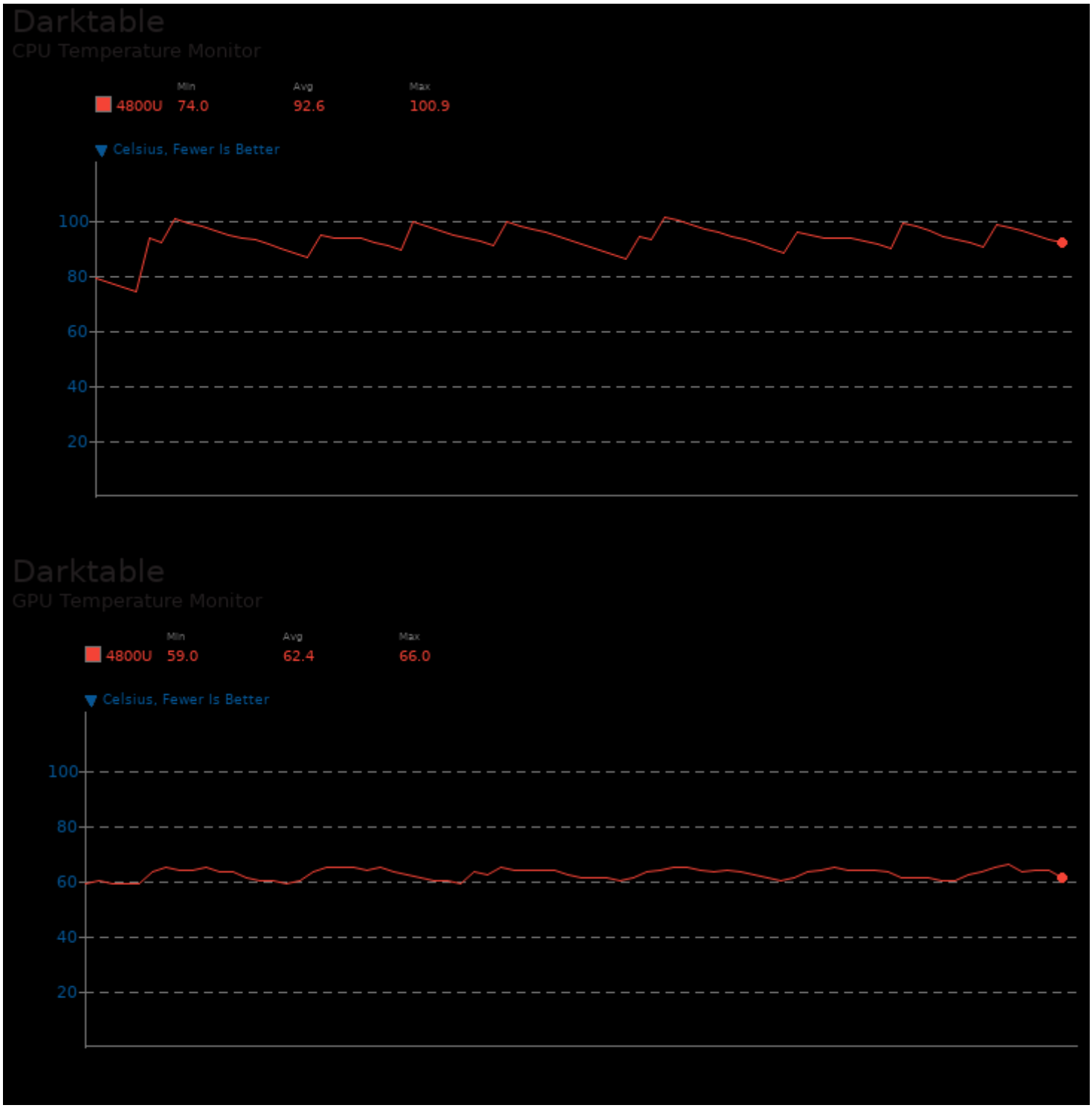



Darktable
System Temperature Monitor
Min
Avg
Max
4800U 78.0 83.0 91.0
Celsius, Fewer Is Better
100
80
60
40
20
Darktable 3.6.0
Test: Server Rack - Acceleration: CPU-only
Seconds, Fewer Is Better
4800U
SE +/- 0.002, N = 12
0.518
i7 10700T
SE +/- 0.001, N = 15
0.276
0.1166
0.2332
0.3498
0.4664
0.583

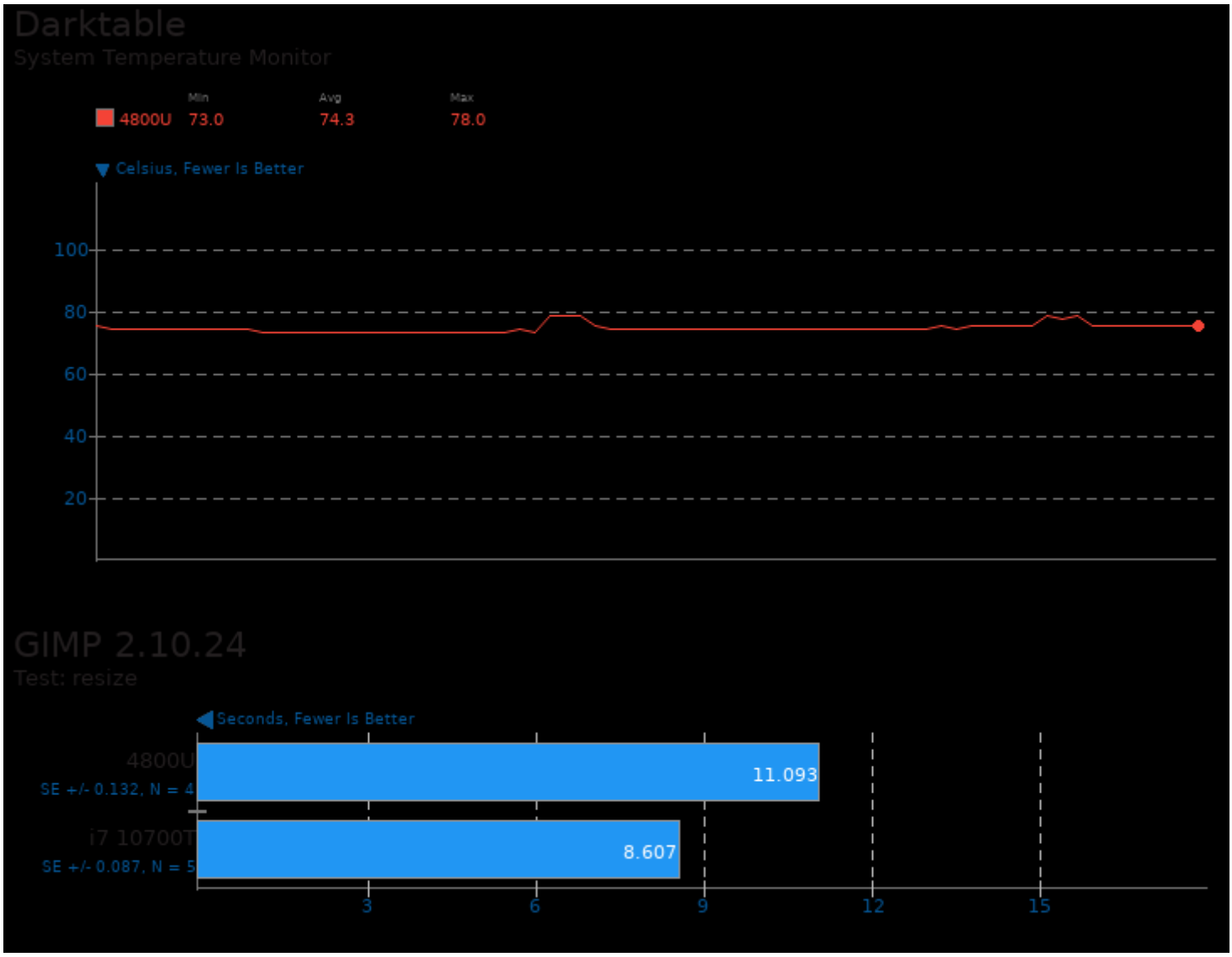
OnLogic Ryzen 4800U



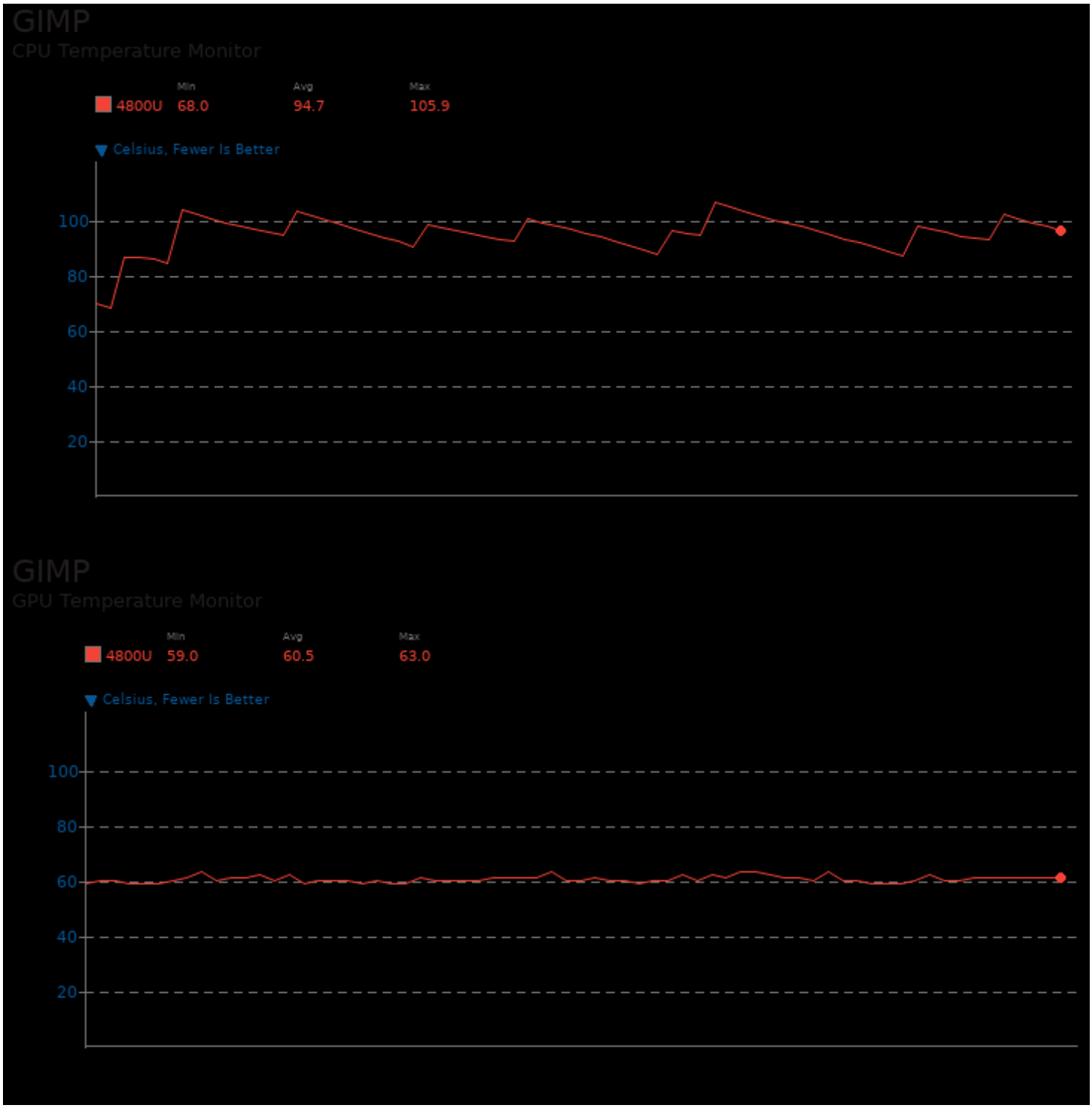

Darktable
System Temperature Monitor
Min
Avg
Max
4800U 75.0 79.2 89.0
Celsius, Fewer Is Better
100
80
60
40
20
Darktable 3.6.0
Test: Server Room - Acceleration: CPU-only
Seconds, Fewer Is Better
4800U
SE +/- 0.010, N = 6
6.824
i7 10700T
SE +/- 0.001, N = 7
4.051
2
4
6
8
10

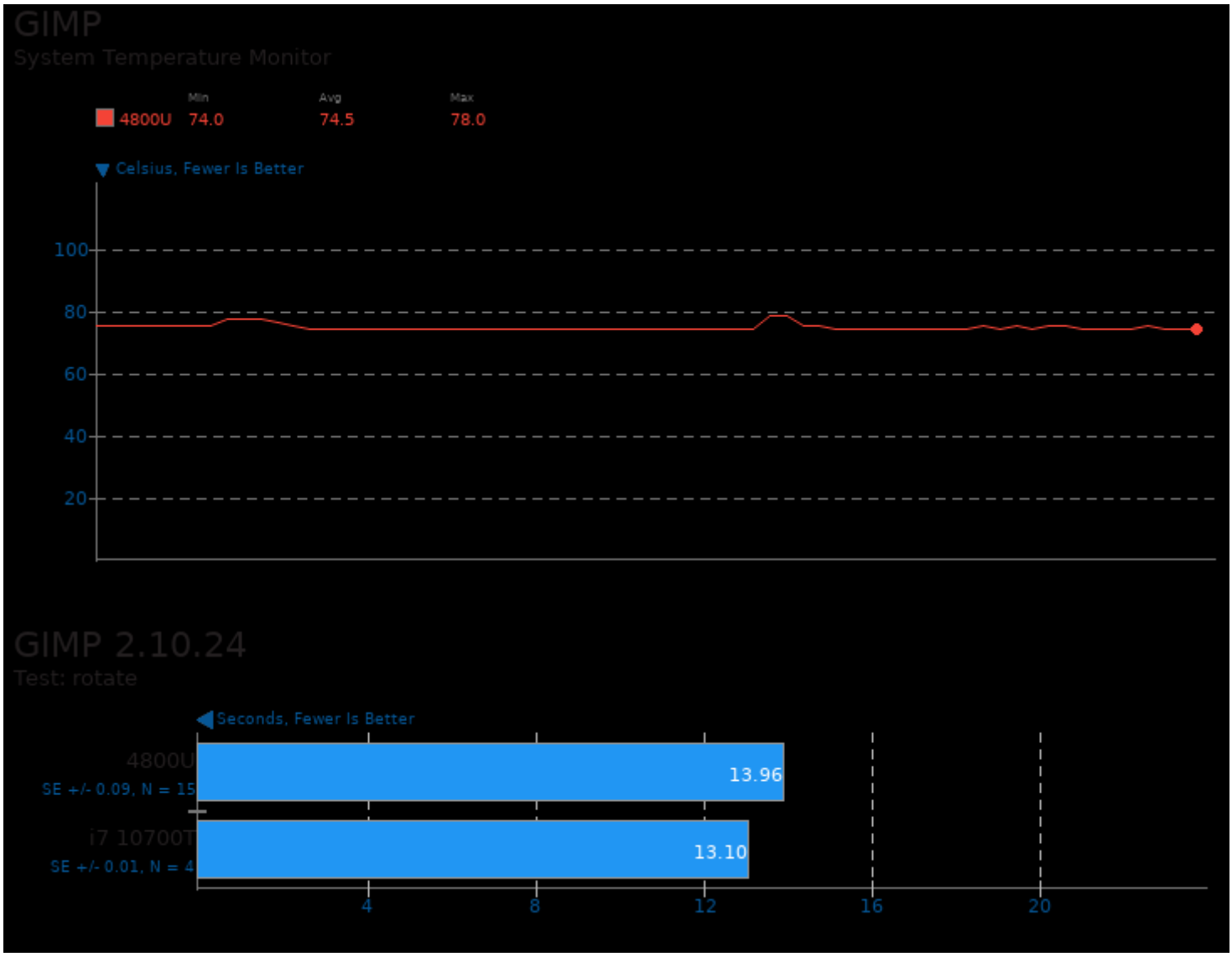

Darktable
CPU Temperature Monitor
Min
Avg
Max
4800U 74.0 92.6 100.9
Celsius, Fewer Is Better
100
80
60
40
20
Darktable
GPU Temperature Monitor
Min
Avg
Max
4800U 59.0 62.4 66.0
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

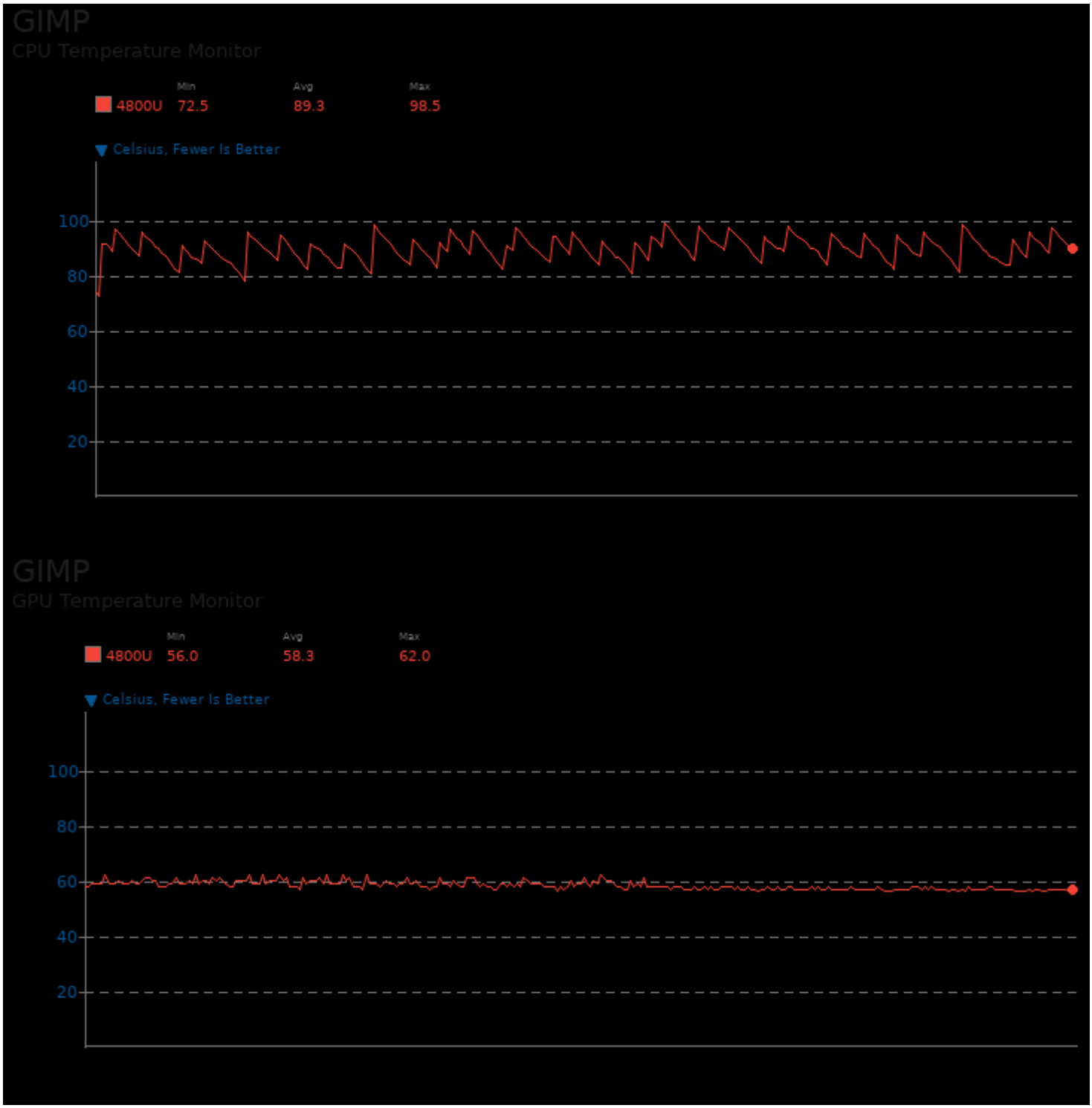


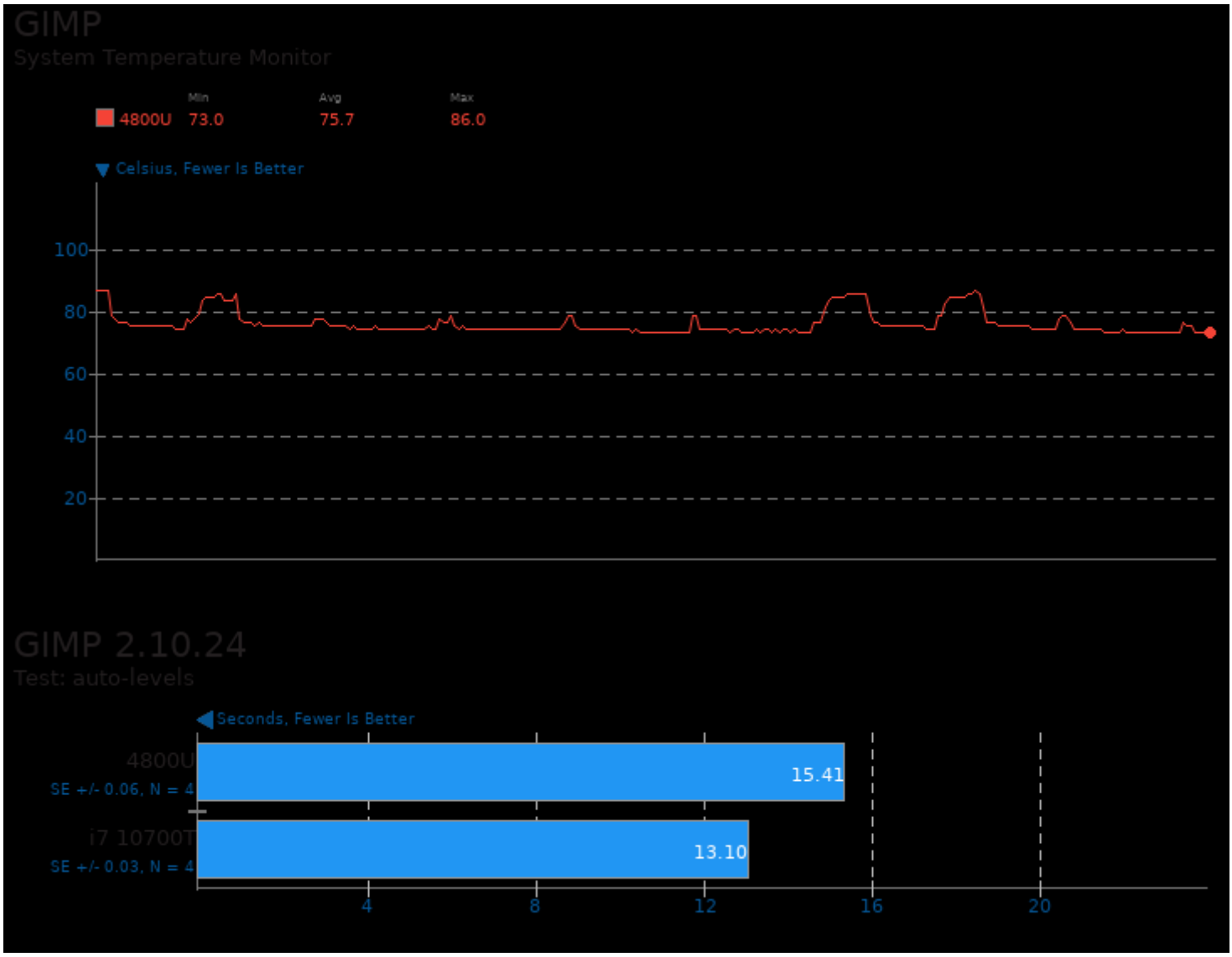
OnLogic Ryzen 4800U



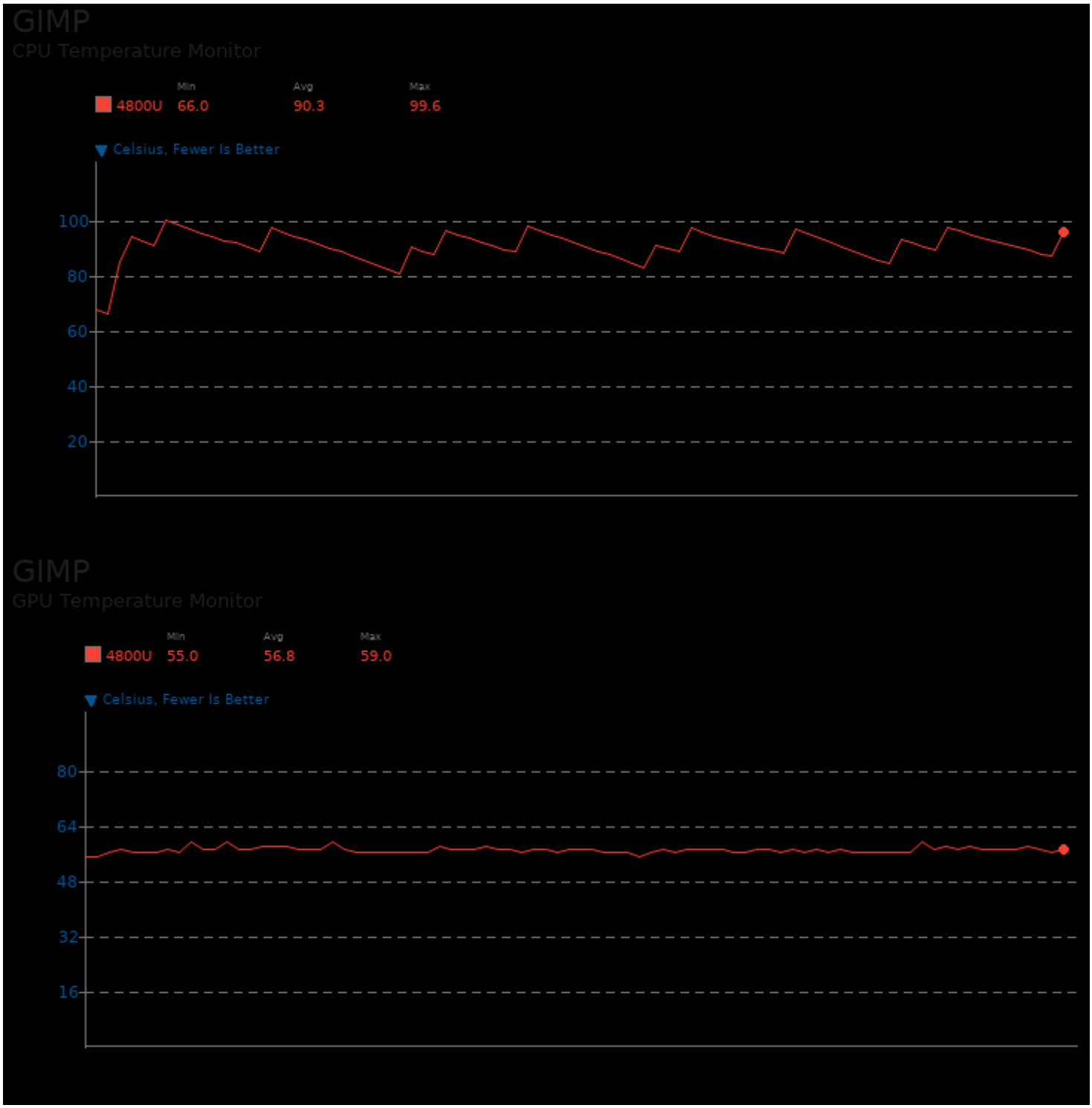

GIMP
System Temperature Monitor
Min
Avg
Max
4800U 74.0 74.5 78.0
Celsius, Fewer Is Better
100
80
60
40
20
GIMP 2.10.24
Test: rotate
Seconds, Fewer Is Better
4800U
SE +/- 0.09, N = 15
13.96
i7 10700T
SE +/- 0.01, N = 4
13.10
4
8
12
16
20

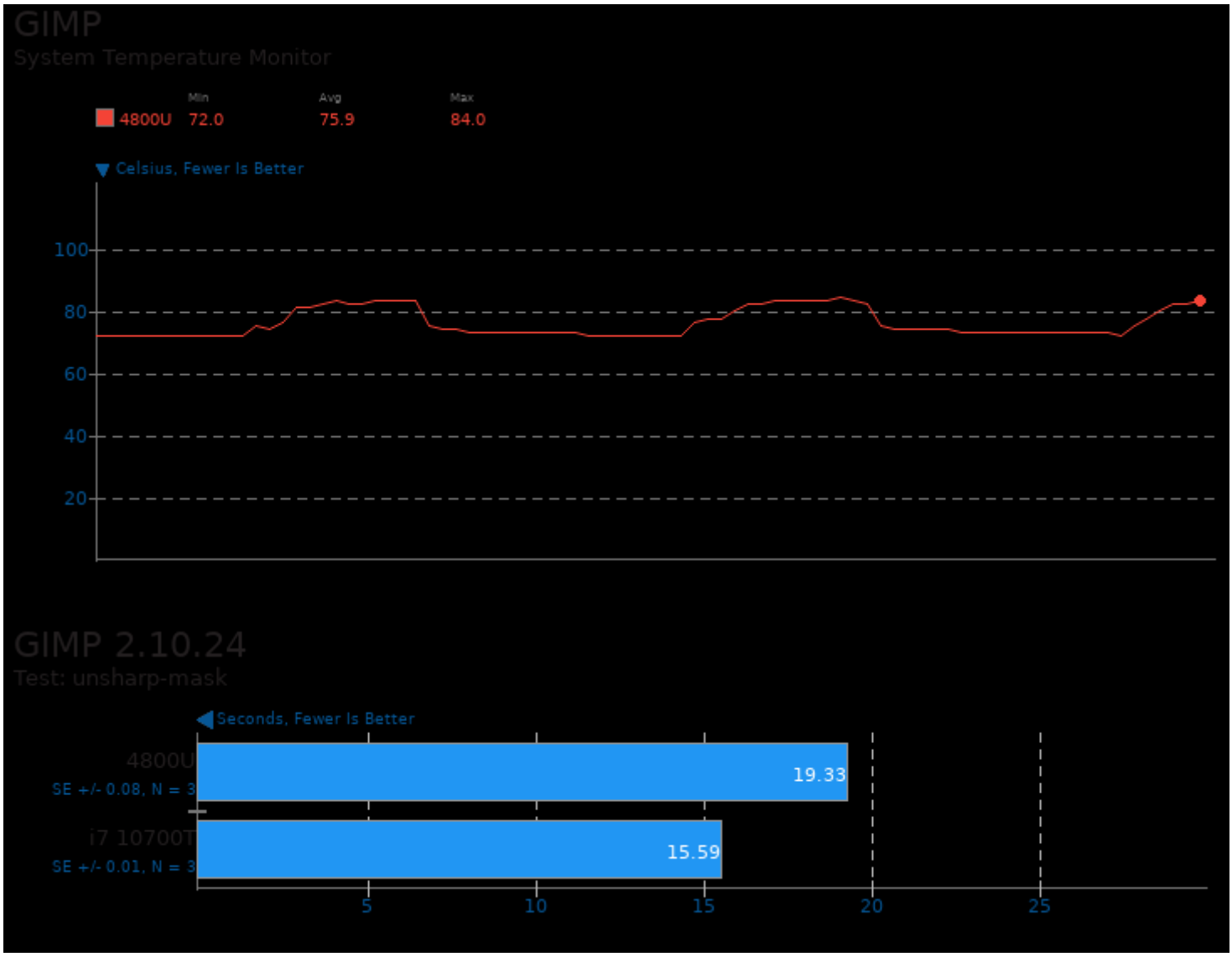
OnLogic Ryzen 4800U



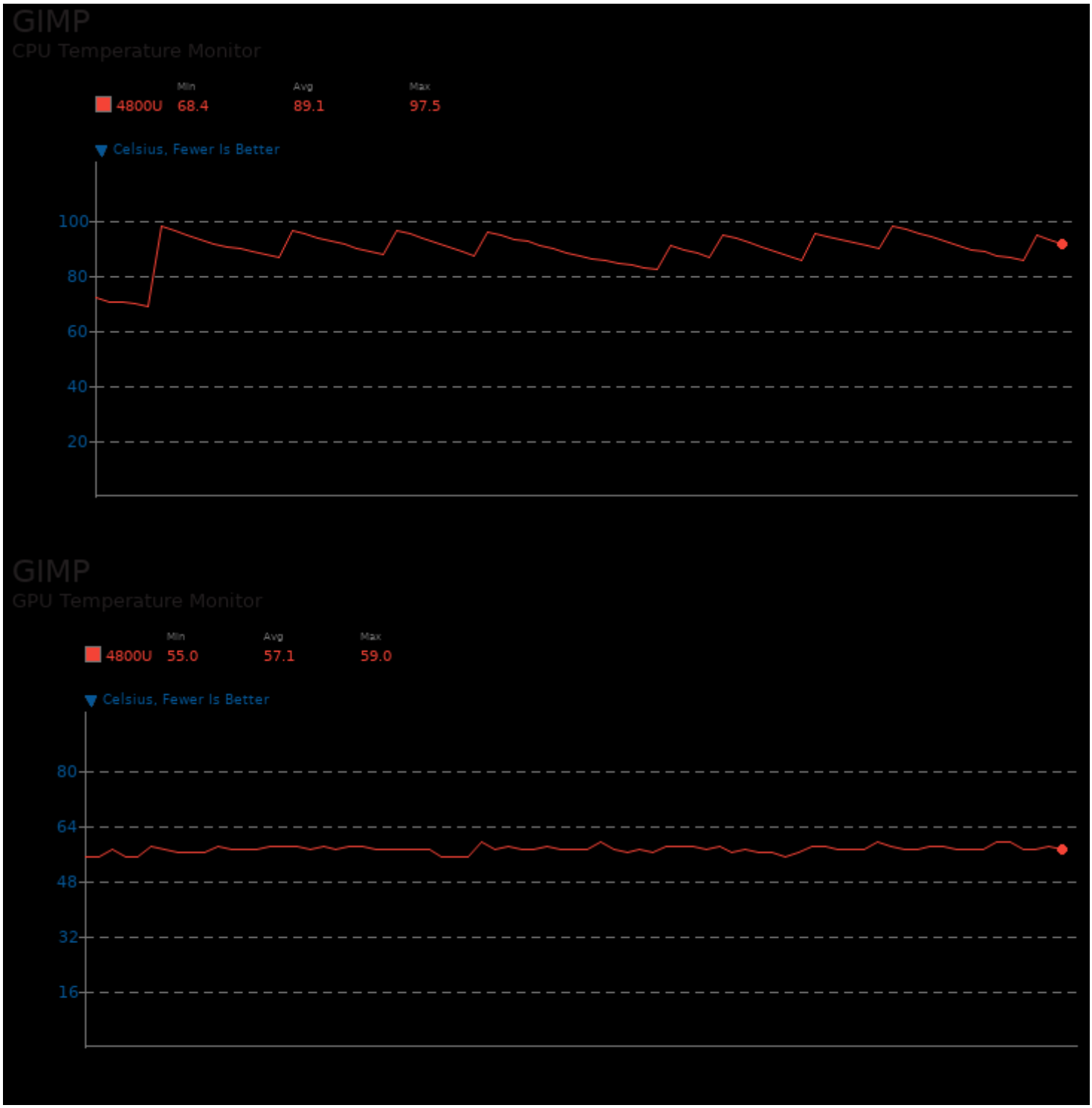

GIMP
System Temperature Monitor
Min
Avg
Max
4800U 73.0 75.7 86.0
Celsius, Fewer Is Better
100
80
60
40
20
GIMP 2.10.24
Test: auto-levels
Seconds, Fewer Is Better
4800U
SE +/- 0.06, N = 4
15.41
i7 10700T
SE +/- 0.03, N = 4
13.10
4
8
12
16
20

OnLogic Ryzen 4800U

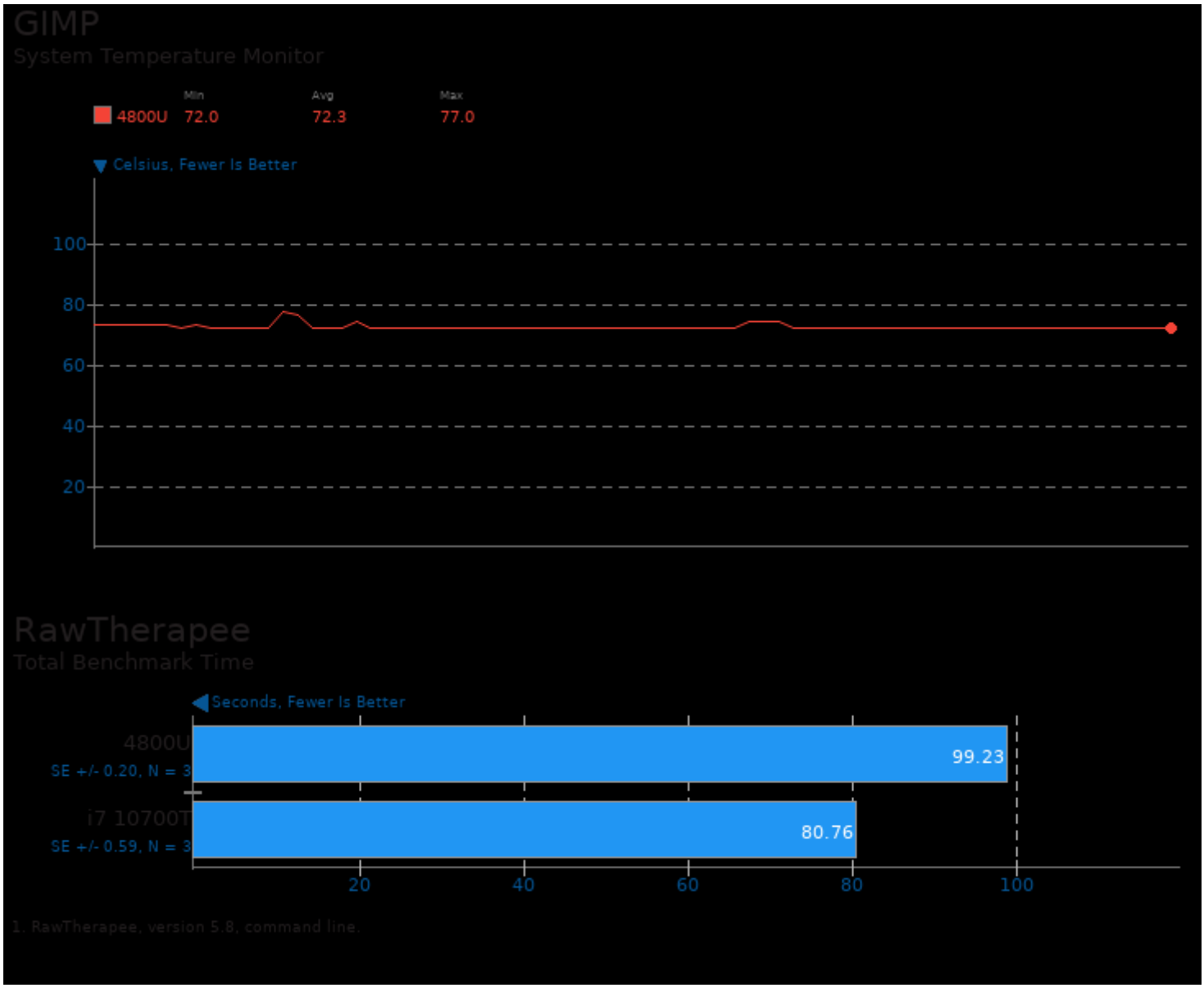



GIMP
System Temperature Monitor
Min
Avg
Max
4800U 72.0 75.9 84.0
Celsius, Fewer Is Better
100
80
60
40
20
GIMP 2.10.24
Test: unsharp-mask
Seconds, Fewer Is Better
4800U
SE +/- 0.08, N = 3
19.33
i7 10700T
SE +/- 0.01, N = 3
15.59
5
10
15
20
25

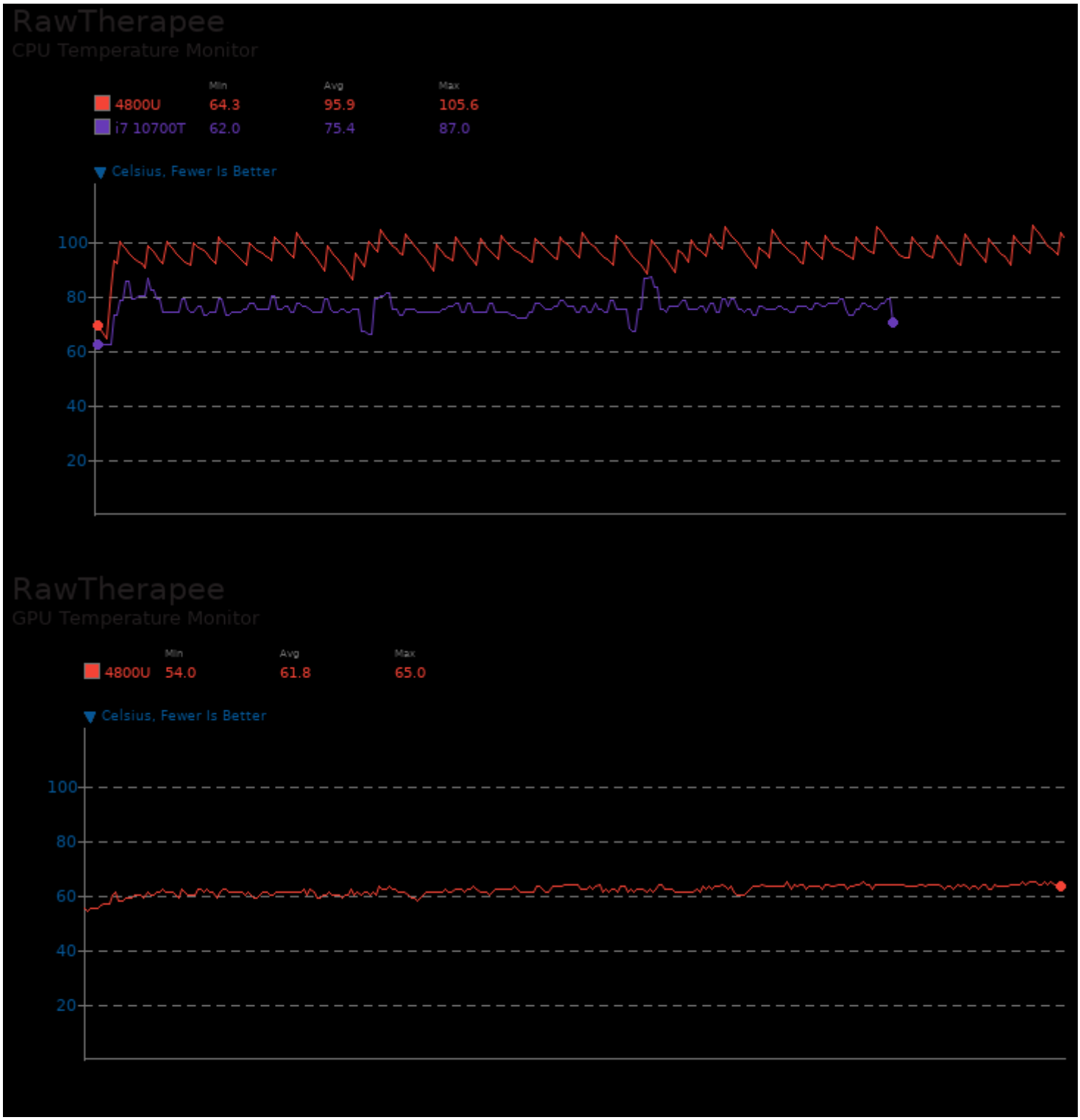
OnLogic Ryzen 4800U

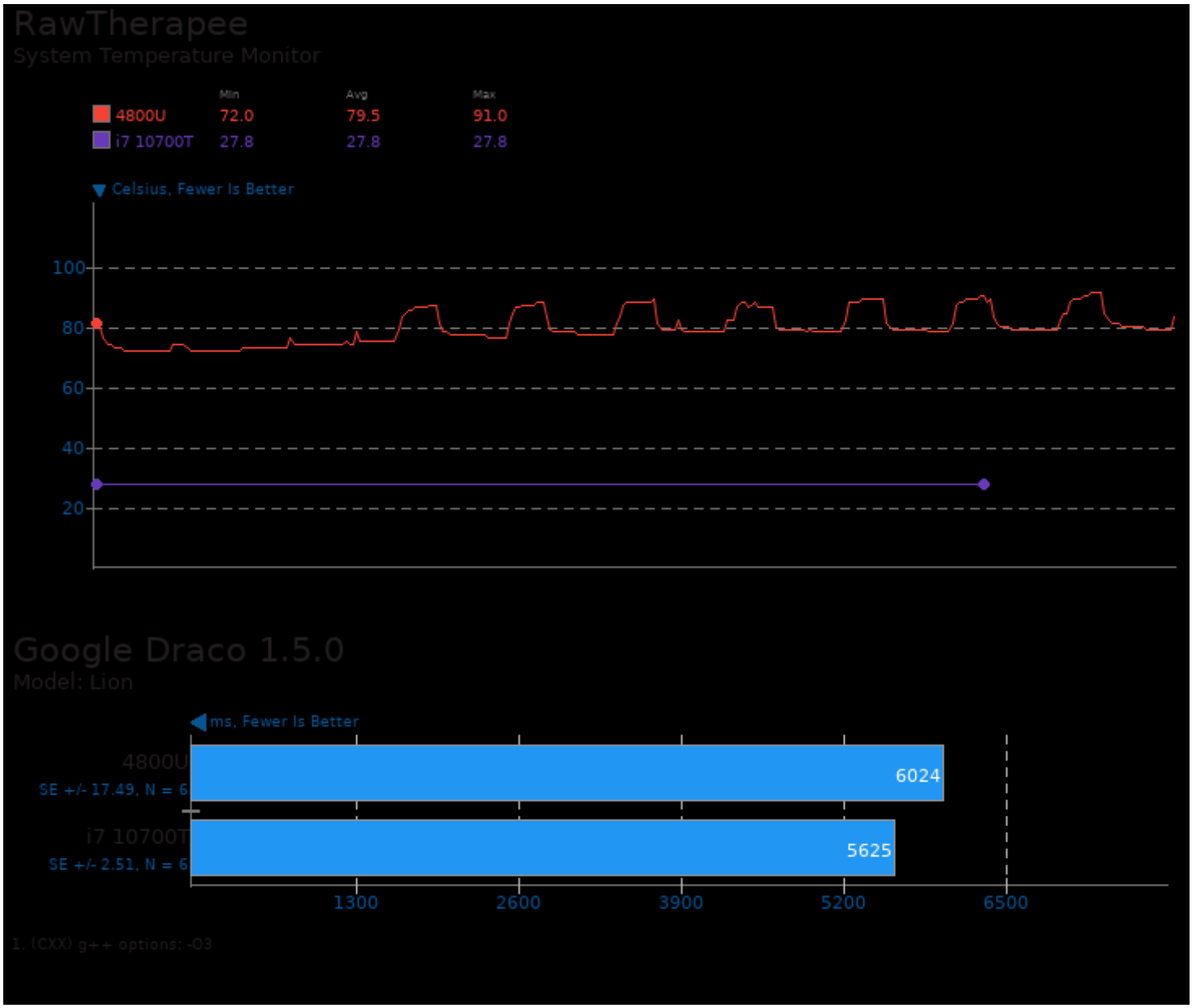


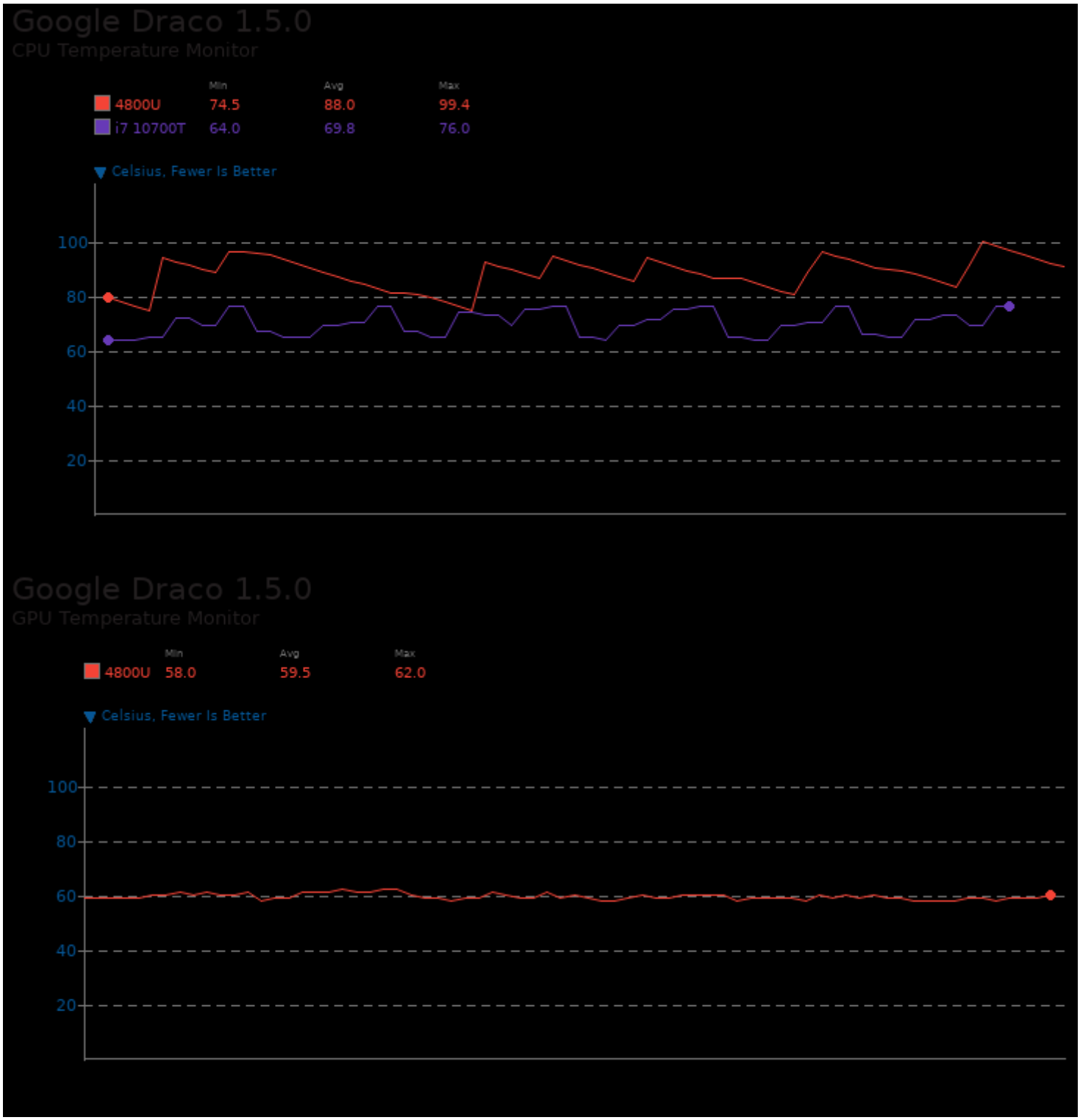
OnLogic Ryzen 4800U

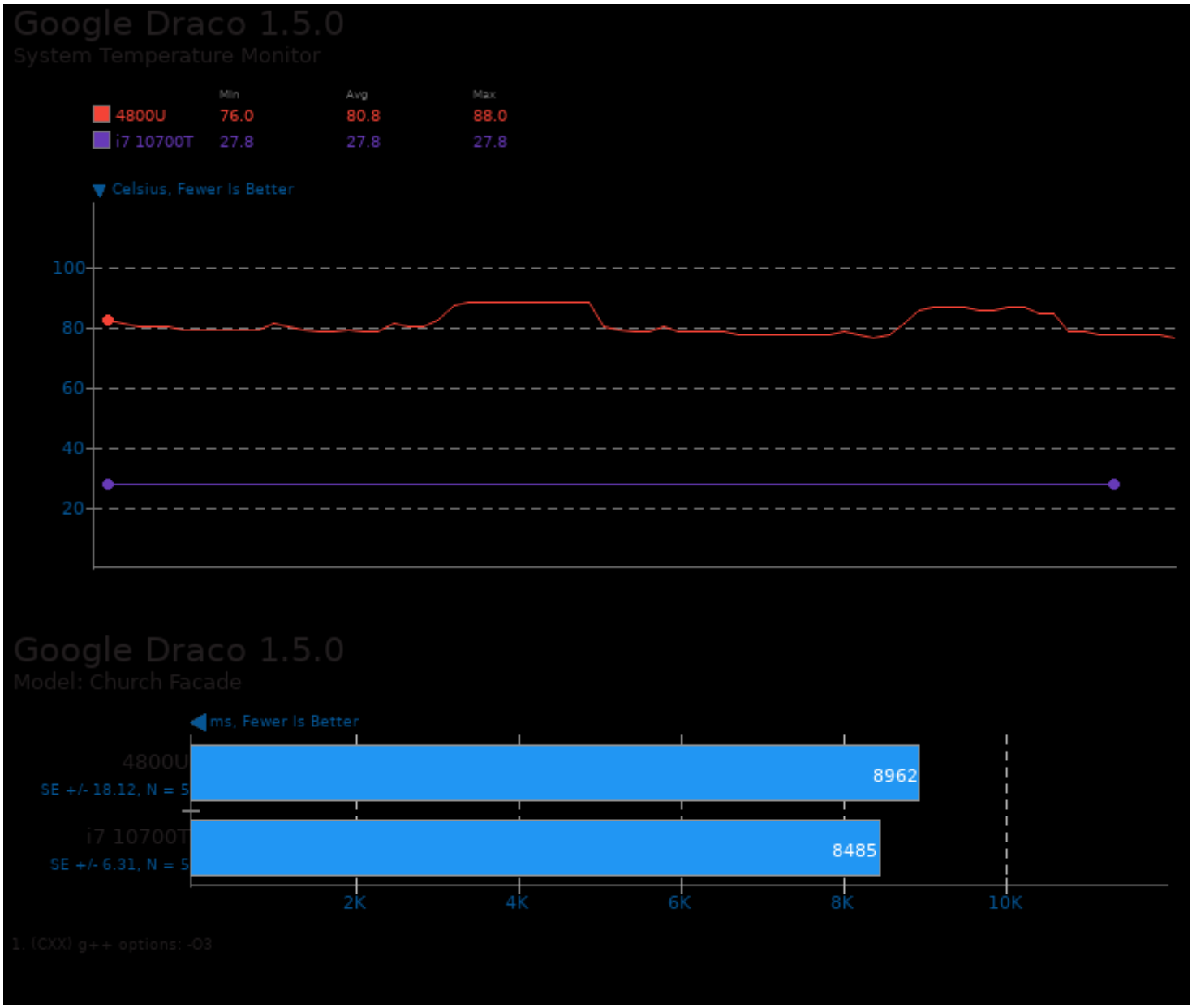


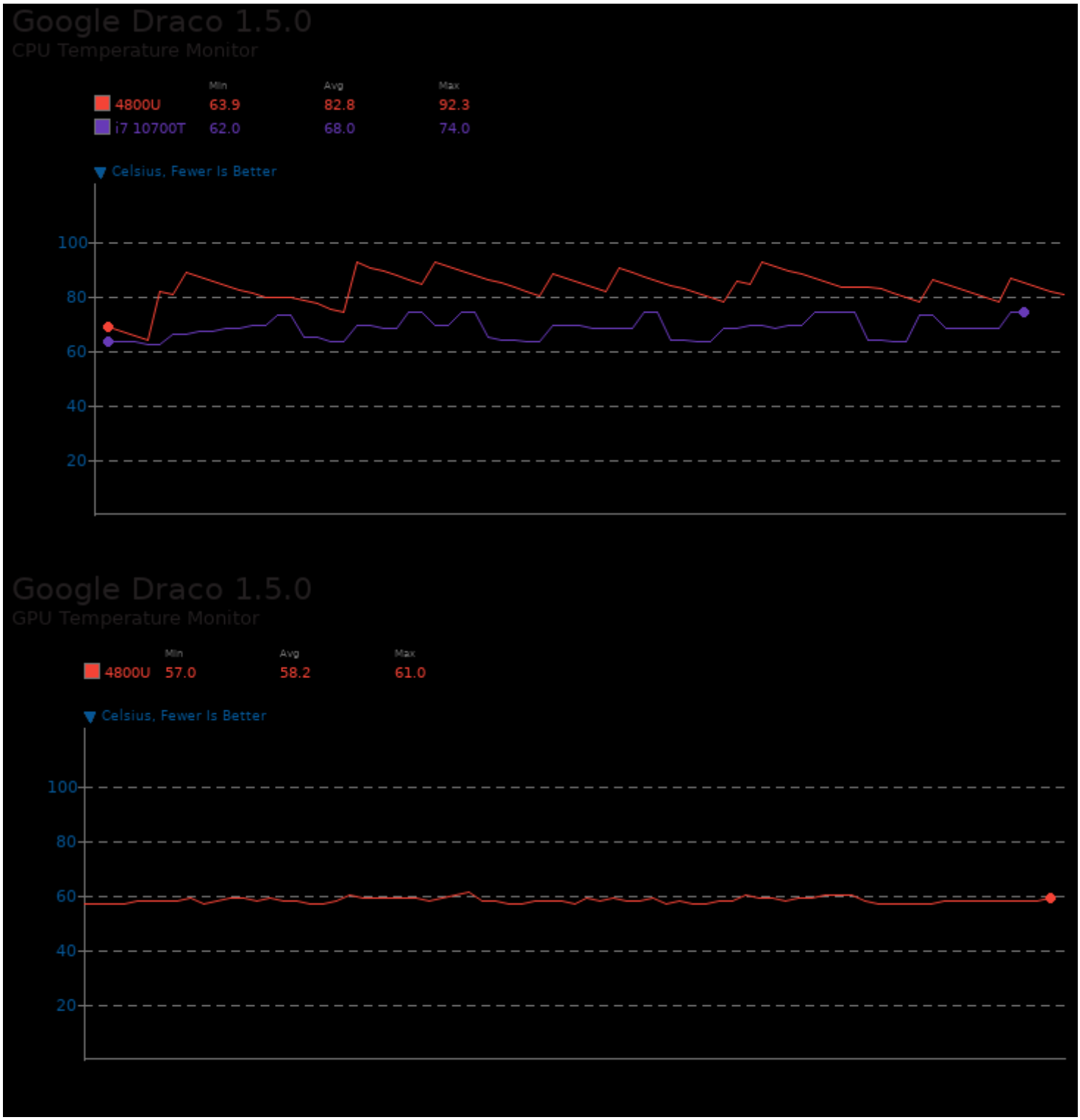
OnLogic Ryzen 4800U




RawTherapee
System Temperature Monitor
Min
Avg
Max
4800U
72.0
79.5
91.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Google Draco 1.5.0
Model: Lion
ms, Fewer Is Better
4800U
SE +/- 17.49, N = 6
6024
i7 10700T
SE +/- 2.51, N = 6
5625
1300
2600
3900
5200
6500
1. (CXX) g++ options: -O3

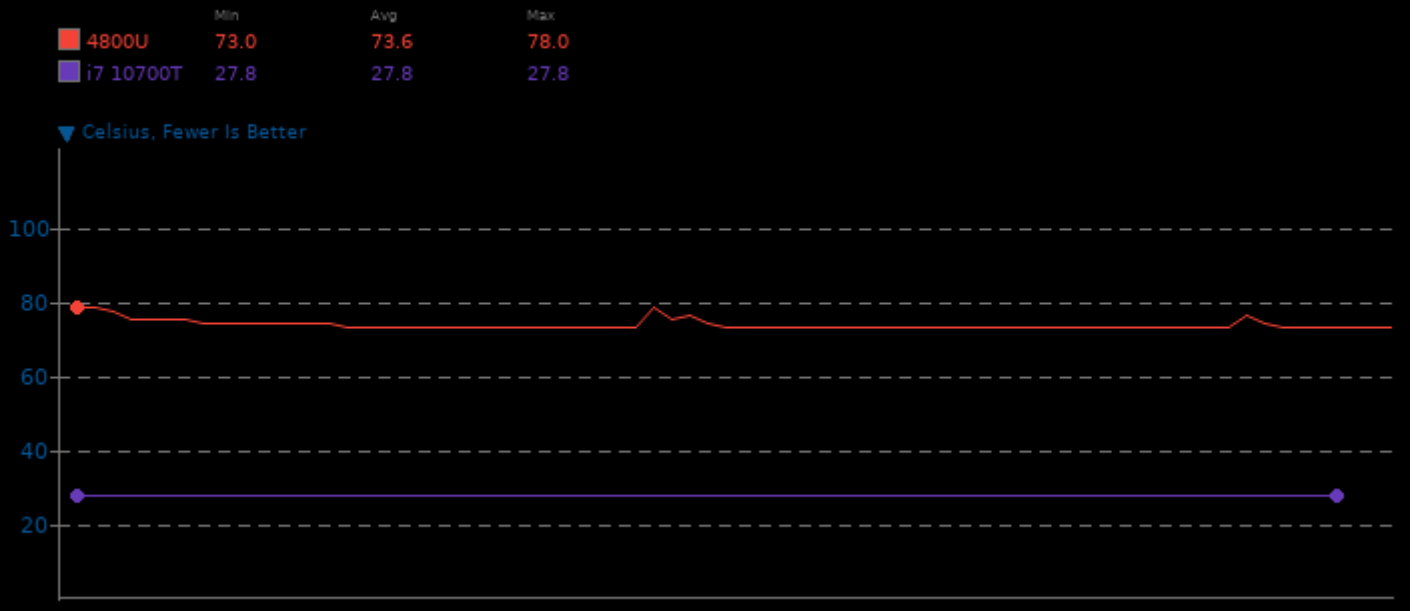

Google Draco 1.5.0
CPU Temperature Monitor
Min
Avg
Max
4800U 74.5 88.0 99.4
i7 10700T 64.0 69.8 76.0
Celsius, Fewer Is Better
100
80
60
40
20
Google Draco 1.5.0
GPU Temperature Monitor
Min
Avg
Max
4800U 58.0 59.5 62.0
Celsius, Fewer Is Better
100
80
60
40
20


Google Draco 1.5.0
System Temperature Monitor
Min
Avg
Max
4800U
76.0
80.8
88.0
i7 10700T
27.8
27.8
27.8
Celsius, Fewer Is Better
100
80
60
40
20
Google Draco 1.5.0
Model: Church Facade
ms, Fewer Is Better
4800U
SE +/- 18.12, N = 5
8962
i7 10700T
SE +/- 6.31, N = 5
8485
2K
4K
6K
8K
10K
1. (CXX) g++ options: -O3


Google Draco 1.5.0
CPU Temperature Monitor
Min
Avg
Max
4800U 63.9 82.8 92.3
i7 10700T 62.0 68.0 74.0
Celsius, Fewer Is Better
100
80
60
40
20
Google Draco 1.5.0
GPU Temperature Monitor
Min
Avg
Max
4800U 57.0 58.2 61.0
Celsius, Fewer Is Better
100
80
60
40
20

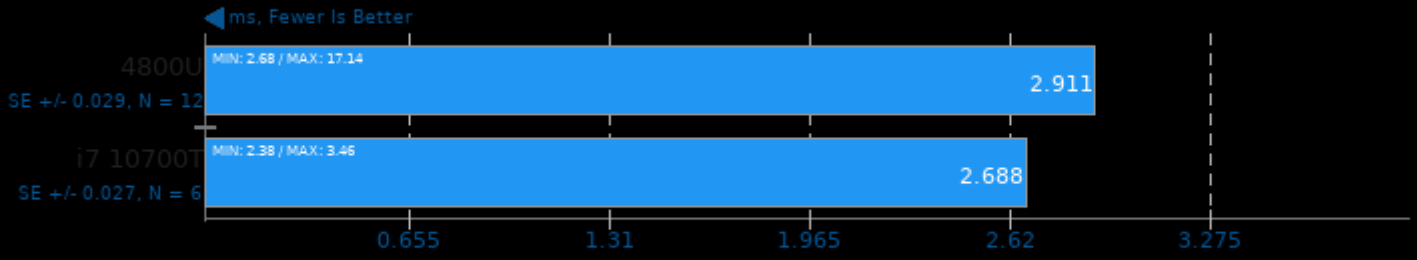
Google Draco 1.5.0

System Temperature Monitor



Mobile Neural Network 1.2

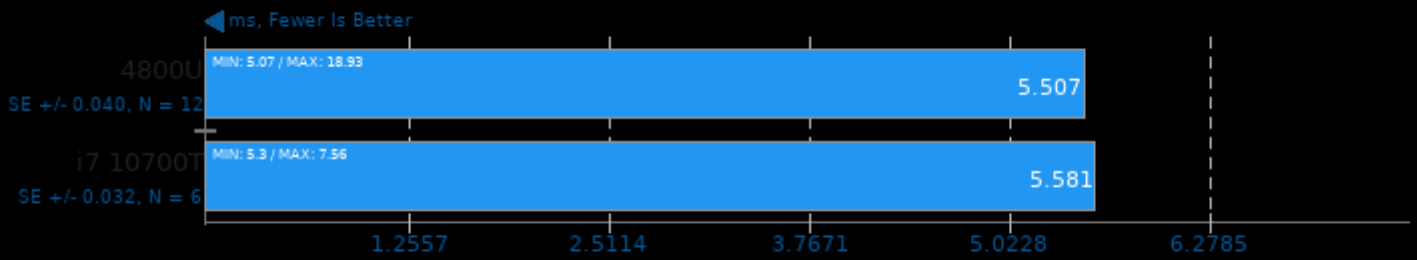
Model: mobilenetV3



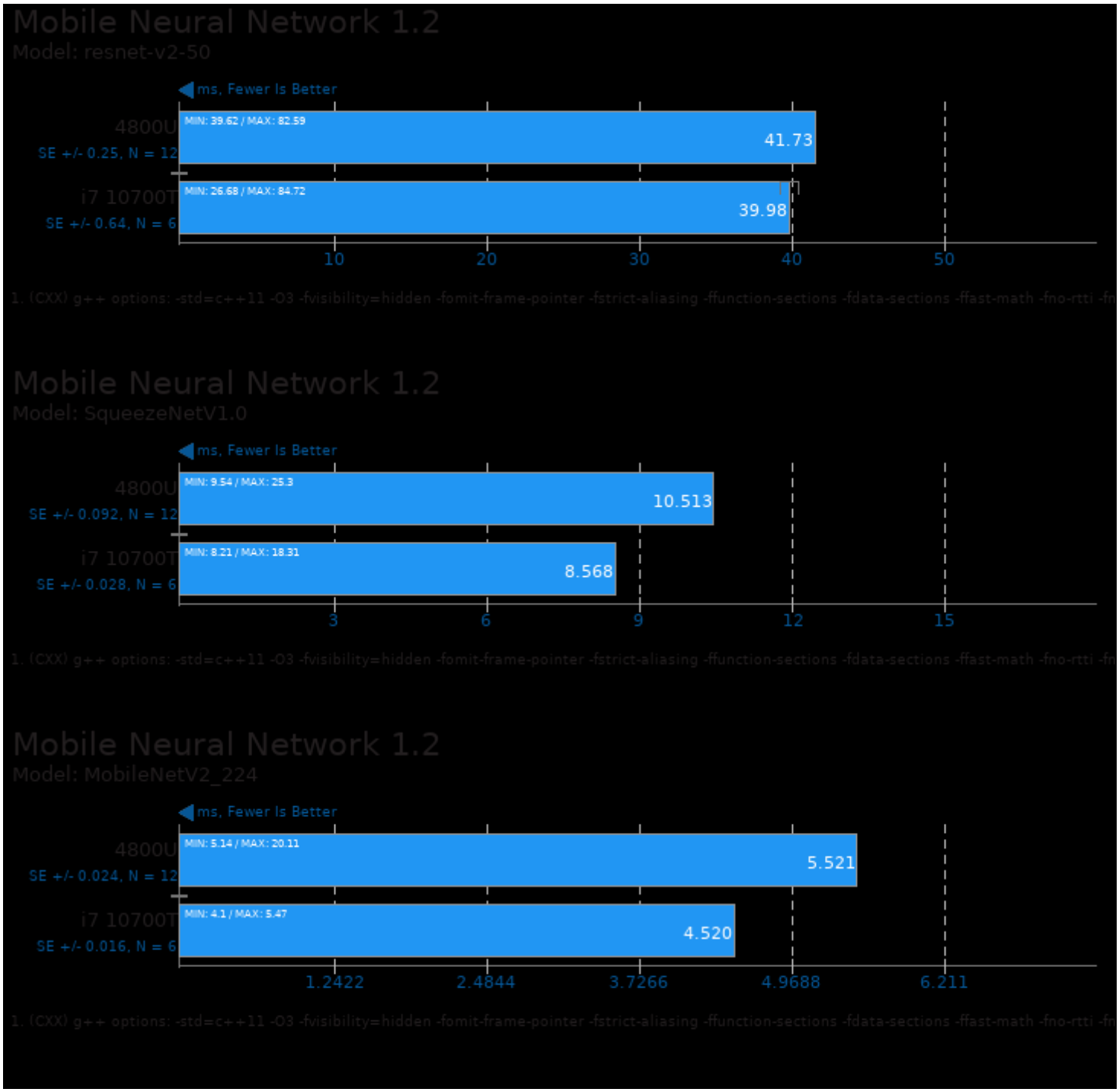
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr

Mobile Neural Network 1.2

Model: squeezenetv1.1

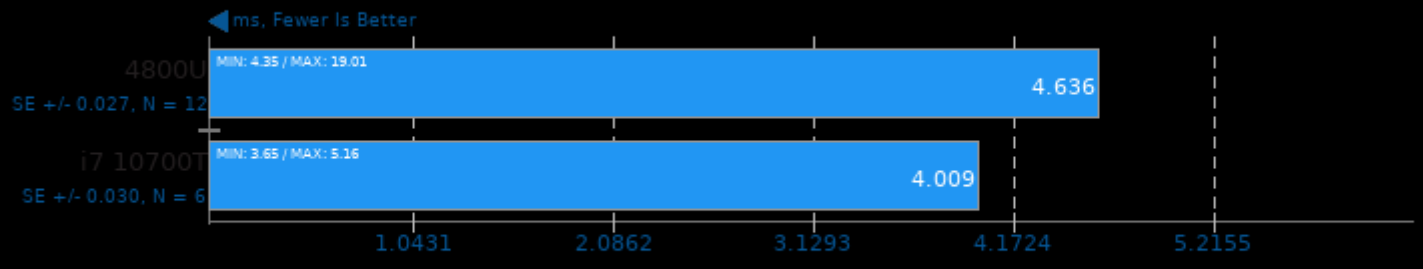


1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fr


Mobile Neural Network 1.2
Model: resnet-v2-50
ms, Fewer Is Better
4800U
SE +/- 0.25, N = 12
MIN: 39.62 / MAX: 82.59
41.73
i7 10700T
SE +/- 0.64, N = 6
MIN: 26.68 / MAX: 84.72
39.98
10
20
30
40
50
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fn
Mobile Neural Network 1.2
Model: SqueezeNetV1.0
ms, Fewer Is Better
4800U
SE +/- 0.092, N = 12
MIN: 9.54 / MAX: 25.3
10.513
i7 10700T
SE +/- 0.028, N = 6
MIN: 8.21 / MAX: 18.31
8.568
3
6
9
12
15
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fn
Mobile Neural Network 1.2
Model: MobileNetV2_224
ms, Fewer Is Better
4800U
SE +/- 0.024, N = 12
MIN: 5.14 / MAX: 20.11
5.521
i7 10700T
SE +/- 0.016, N = 6
MIN: 4.1 / MAX: 5.47
4.520
1.2422
2.4844
3.7266
4.9688
6.211
1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fn

Mobile Neural Network 1.2

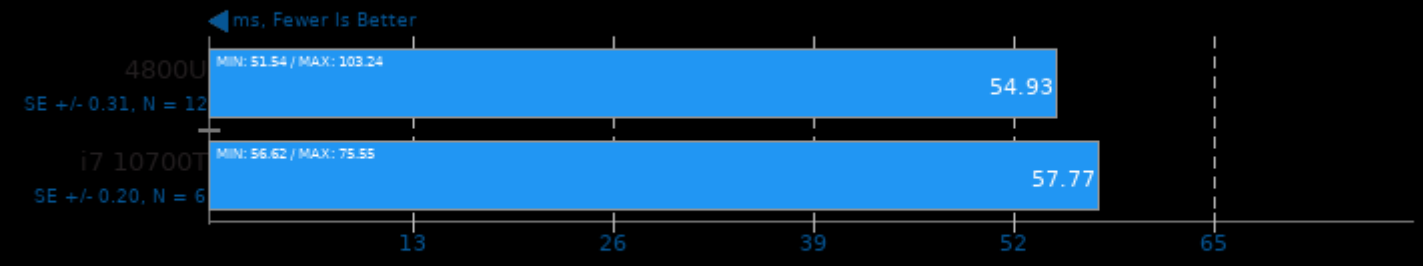
Model: mobilenet-v1-1.0



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fn

Mobile Neural Network 1.2

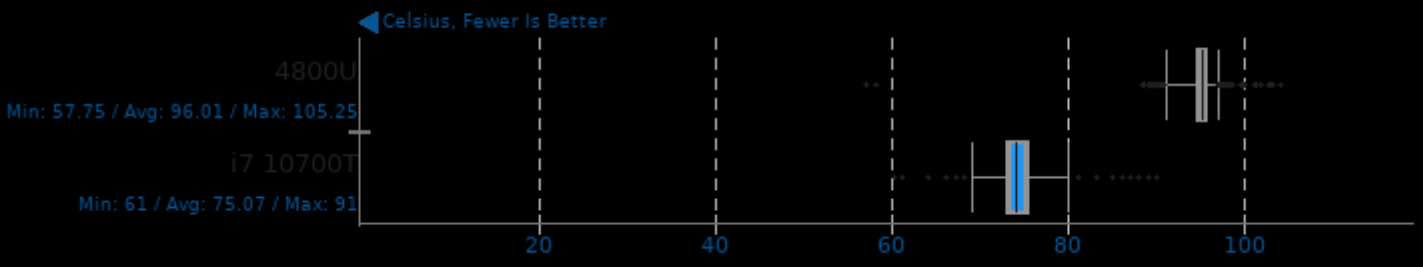
Model: inception-v3



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fn

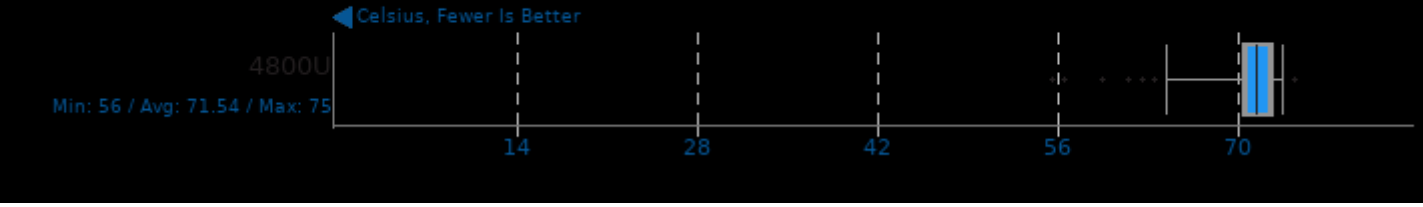
Mobile Neural Network 1.2

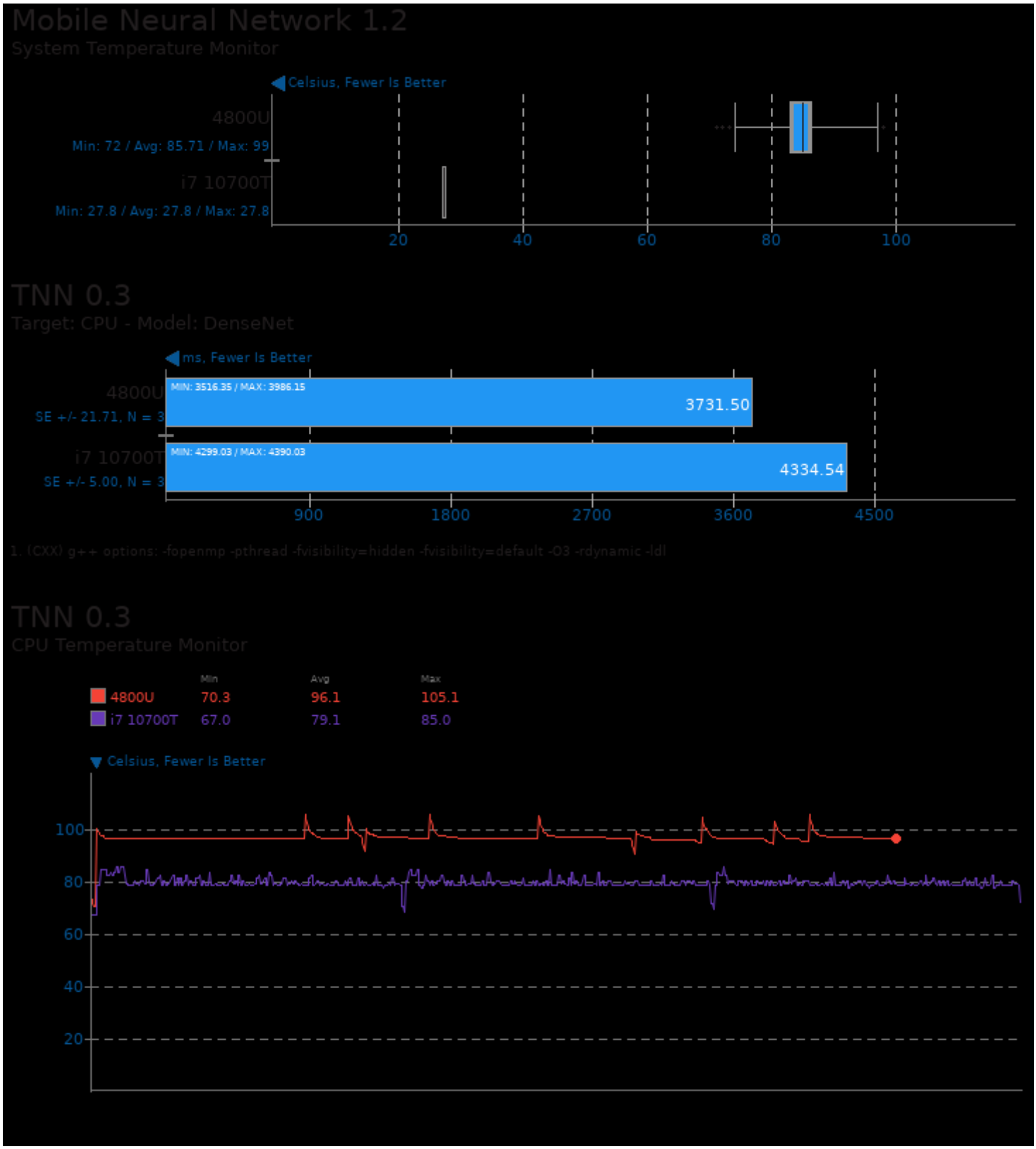
CPU Temperature Monitor

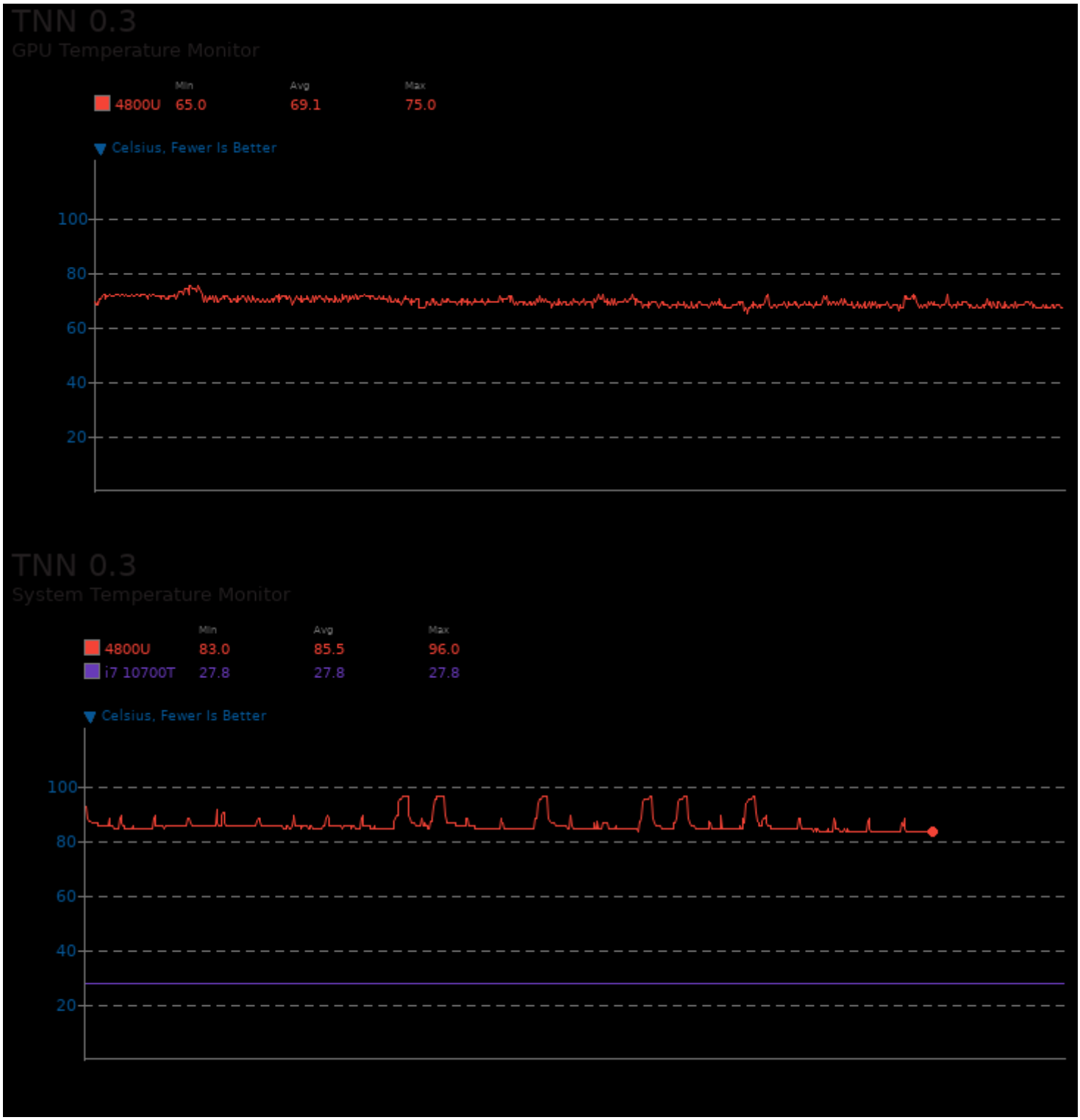


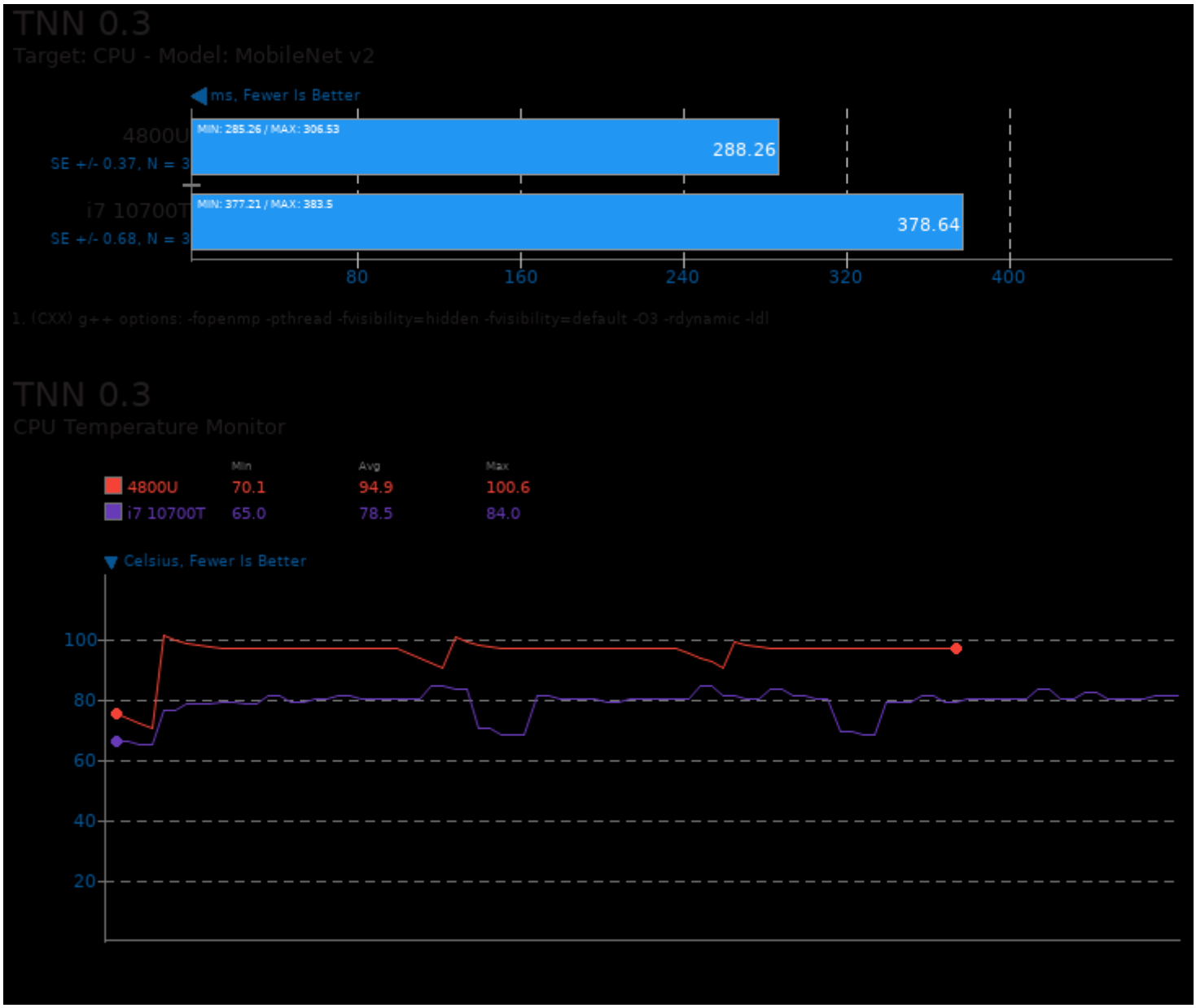
Mobile Neural Network 1.2

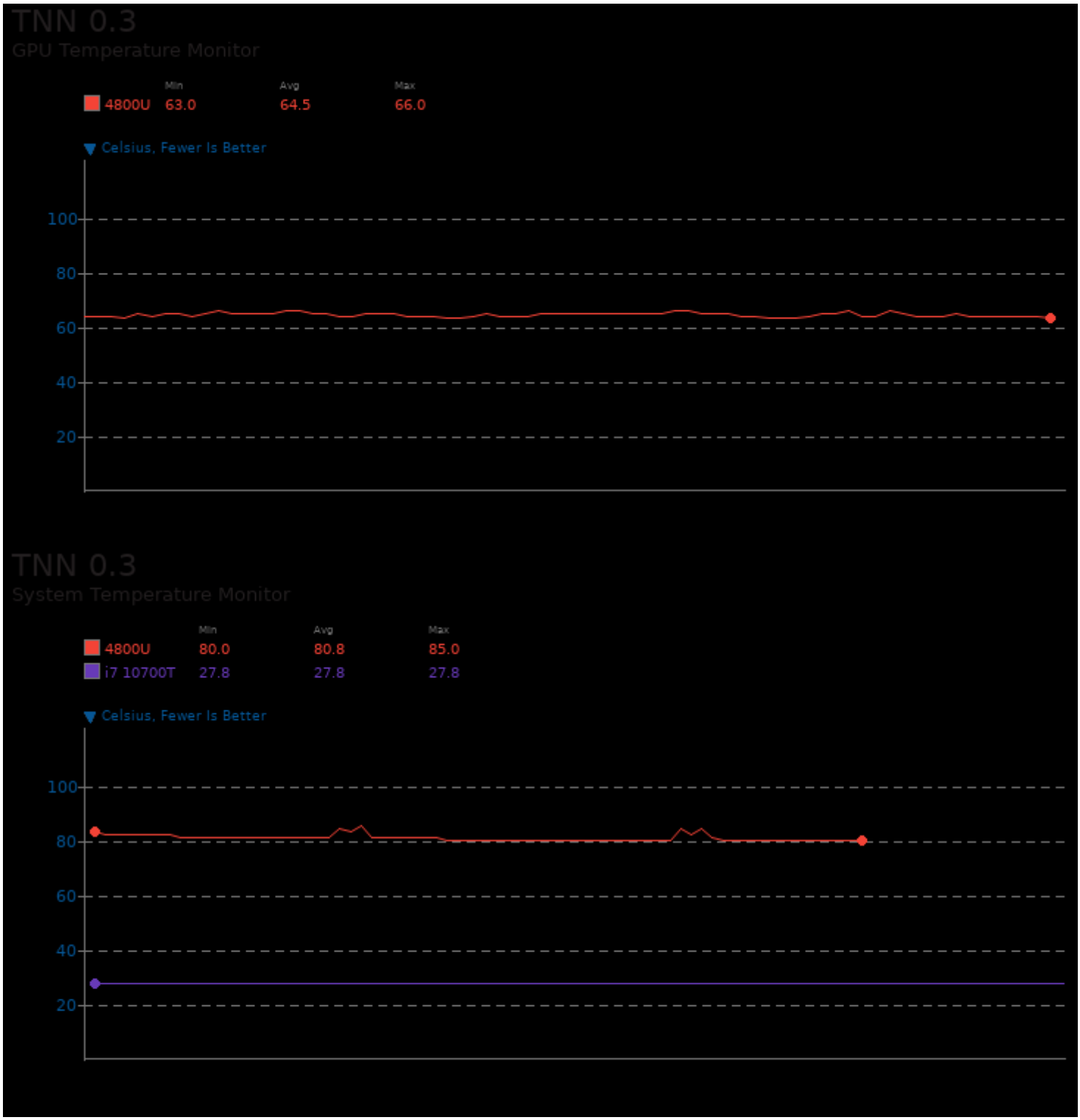
GPU Temperature Monitor



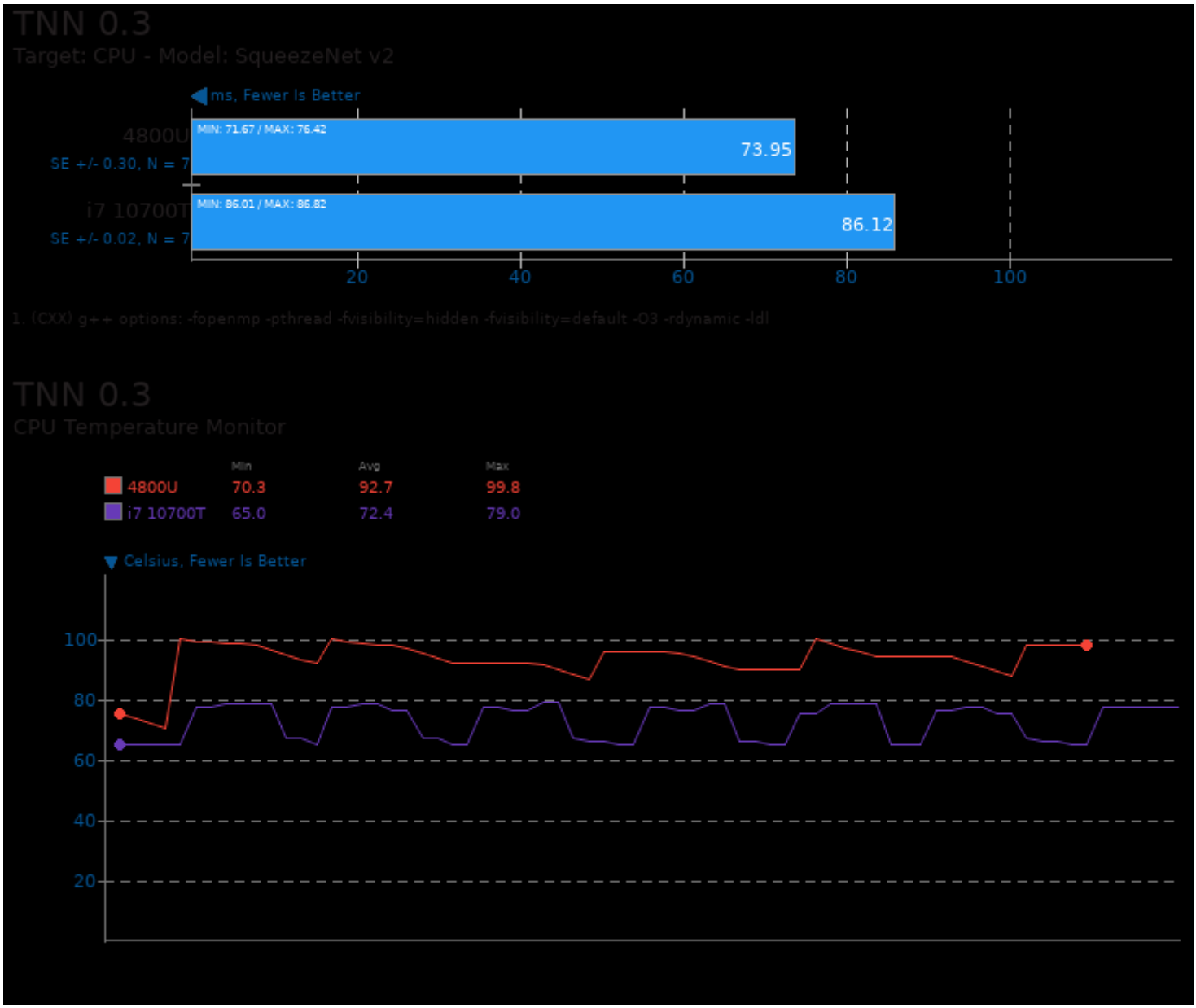

Mobile Neural Network 1.2
System Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 72 / Avg: 85.71 / Max: 99
i7 10700T
Min: 27.8 / Avg: 27.8 / Max: 27.8
20
40
60
80
100
TNN 0.3
Target: CPU - Model: DenseNet
ms, Fewer Is Better
4800U
SE +/- 21.71, N = 3
MIN: 3516.35 / MAX: 3986.15
3731.50
i7 10700T
SE +/- 5.00, N = 3
MIN: 4299.03 / MAX: 4390.03
4334.54
900
1800
2700
3600
4500
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl
TNN 0.3
CPU Temperature Monitor
Min
Avg
Max
4800U
70.3
96.1
105.1
i7 10700T
67.0
79.1
85.0
Celsius, Fewer Is Better
100
80
60
40
20

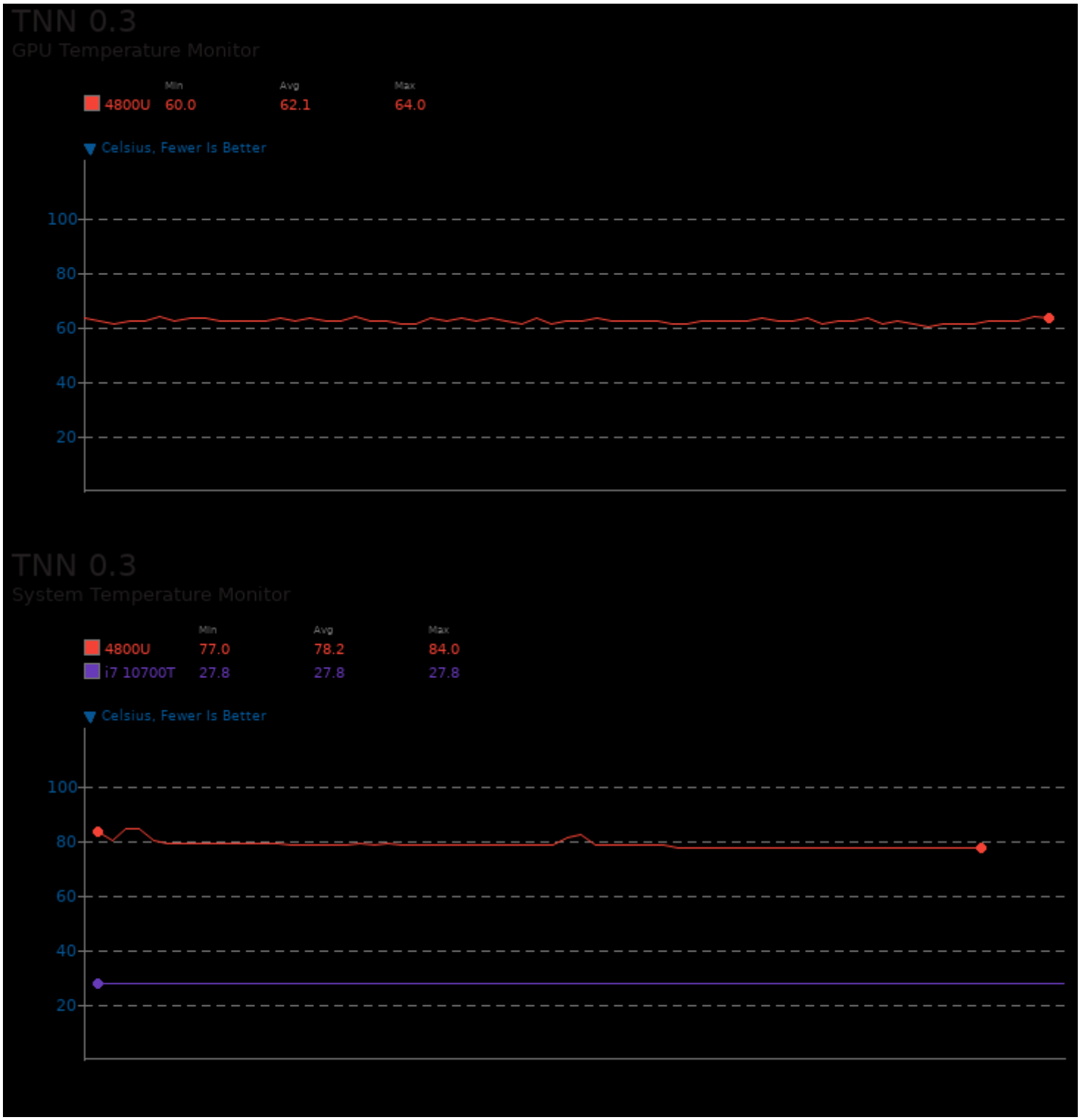

TNN 0.3
GPU Temperature Monitor
Min
Avg
Max
4800U 65.0 69.1 75.0
Celsius, Fewer Is Better
100
80
60
40
20
TNN 0.3
System Temperature Monitor
Min
Avg
Max
4800U 83.0 85.5 96.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

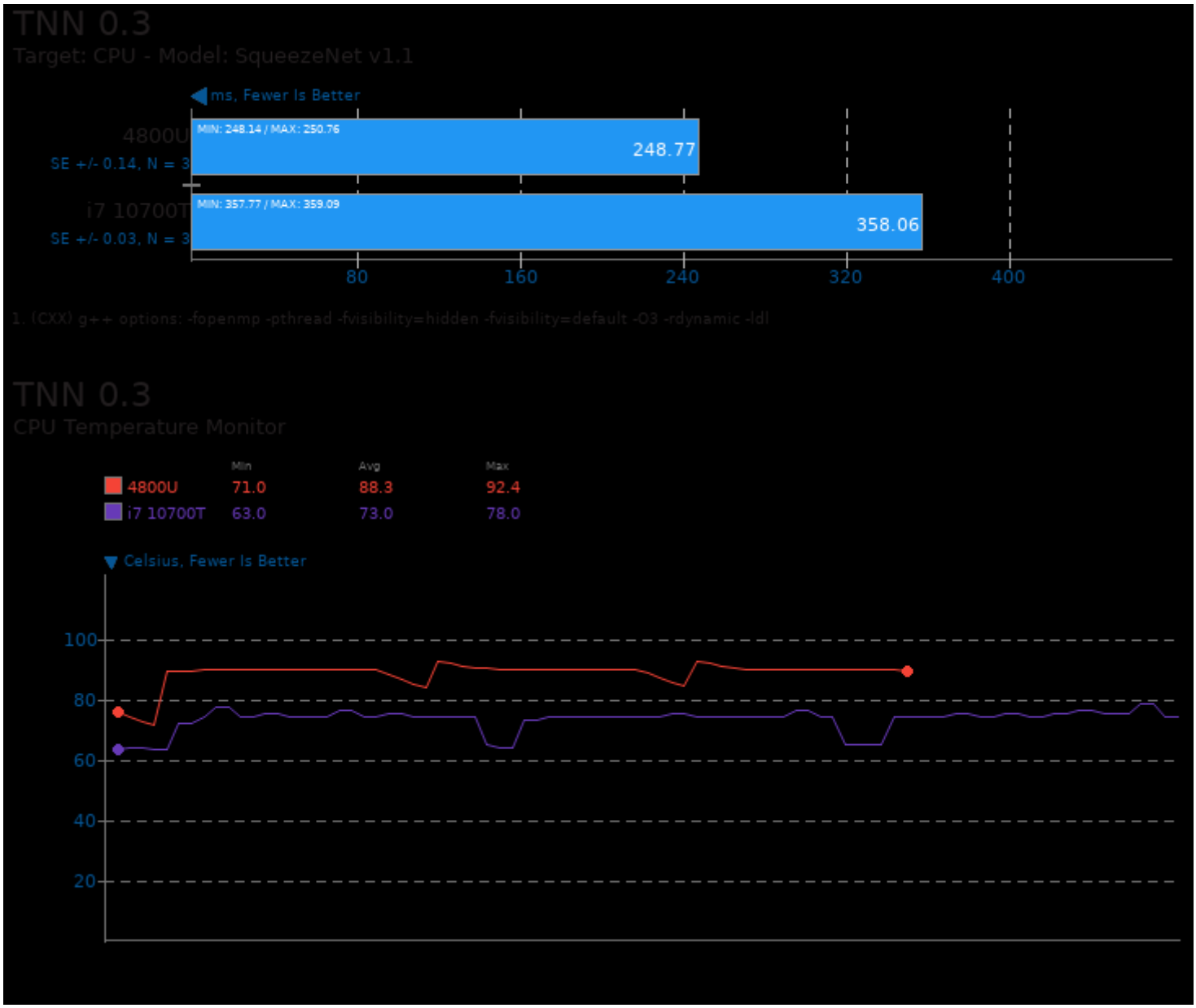

TNN 0.3
Target: CPU - Model: MobileNet v2
ms, Fewer Is Better
4800U
MIN: 285.26 / MAX: 306.53
288.26
SE +/- 0.37, N = 3
i7 10700T
MIN: 377.21 / MAX: 383.5
378.64
SE +/- 0.68, N = 3
80
160
240
320
400
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl
TNN 0.3
CPU Temperature Monitor
Min
Avg
Max
4800U
70.1
94.9
100.6
i7 10700T
65.0
78.5
84.0
Celsius, Fewer Is Better
100
80
60
40
20


TNN 0.3
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 64.5 66.0
Celsius, Fewer Is Better
100
80
60
40
20
TNN 0.3
System Temperature Monitor
Min
Avg
Max
4800U 80.0 80.8 85.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

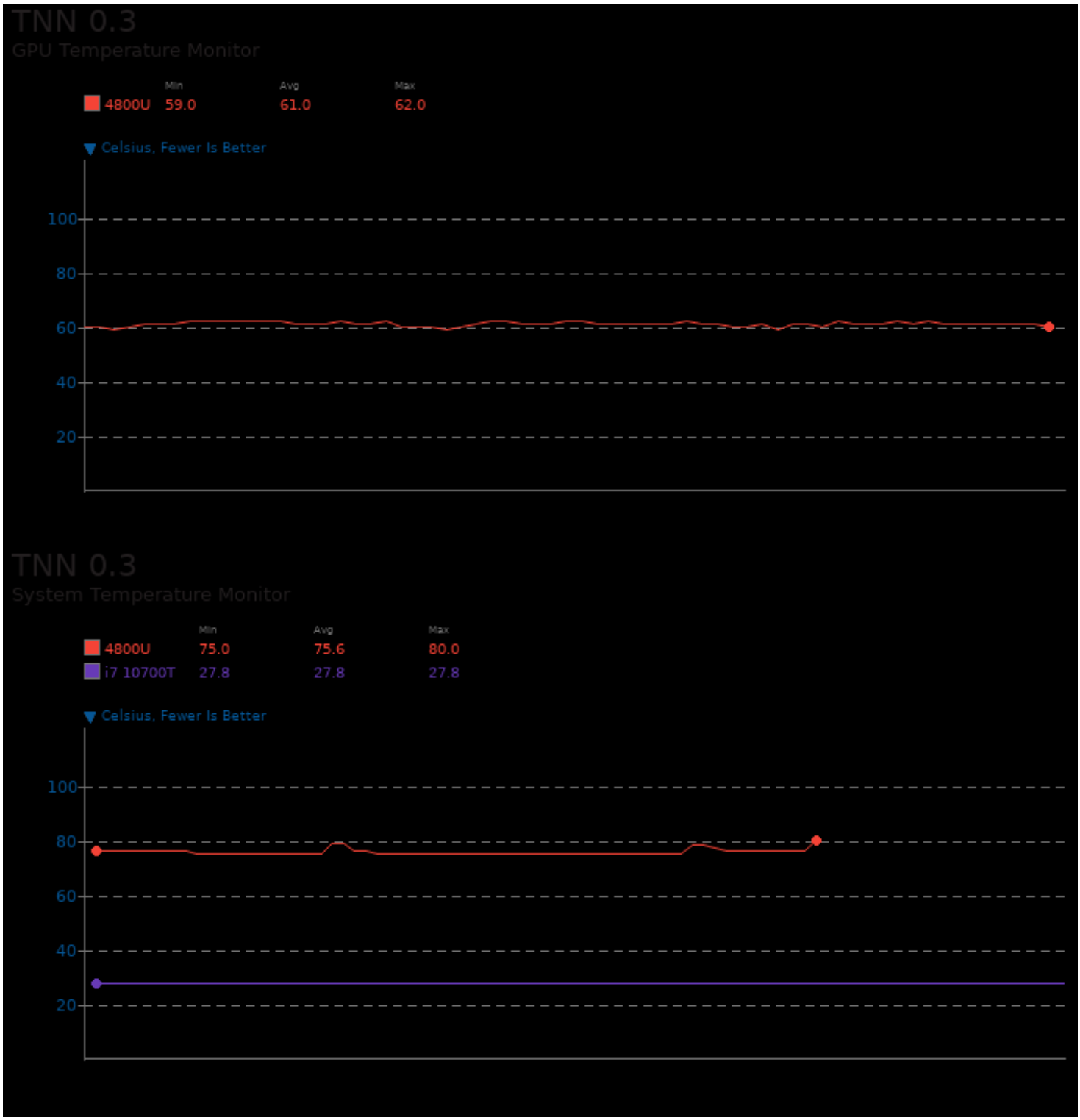
OnLogic Ryzen 4800U



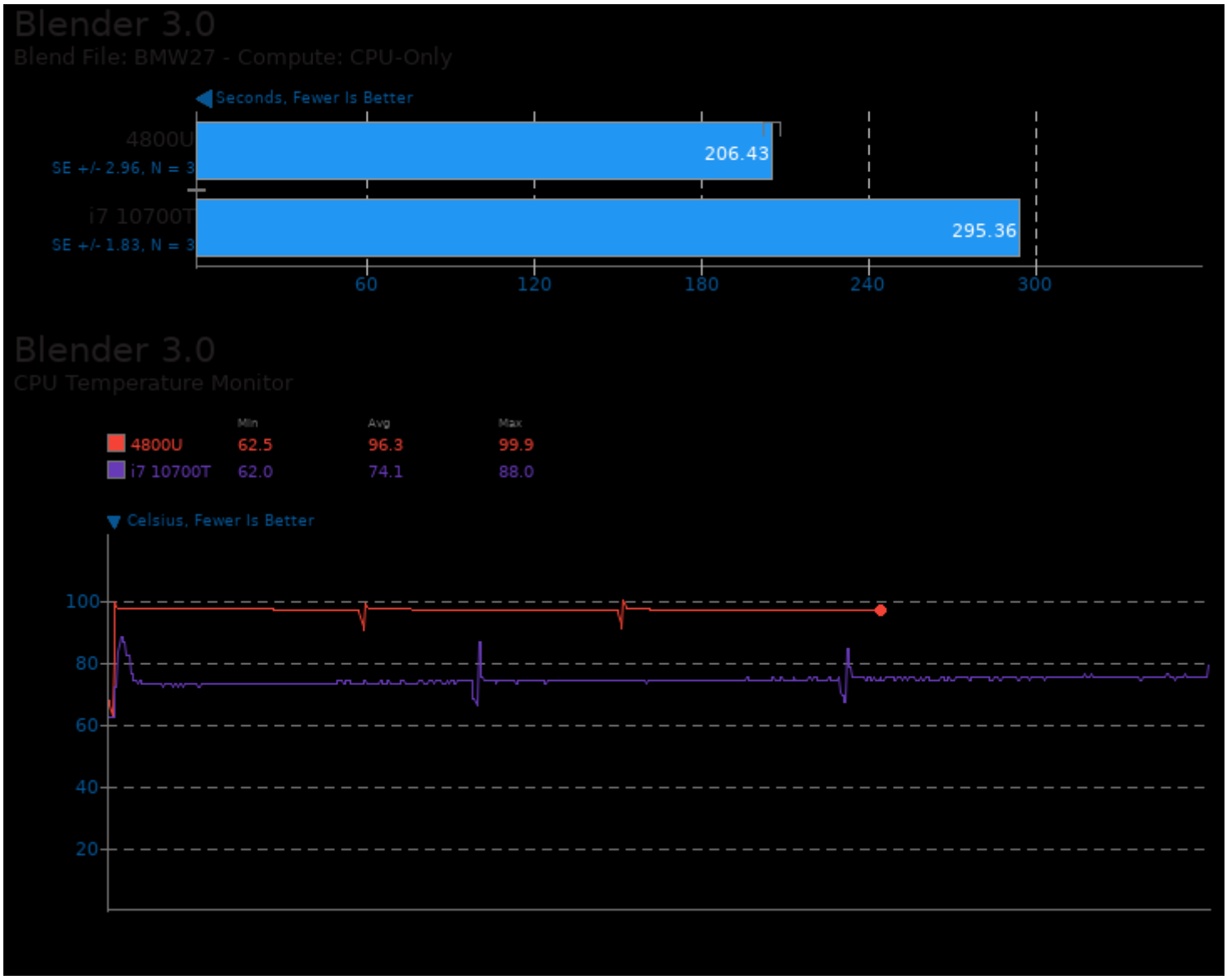

TNN 0.3
GPU Temperature Monitor
Min
Avg
Max
4800U 60.0 62.1 64.0
Celsius, Fewer Is Better
100
80
60
40
20
TNN 0.3
System Temperature Monitor
Min
Avg
Max
4800U 77.0 78.2 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

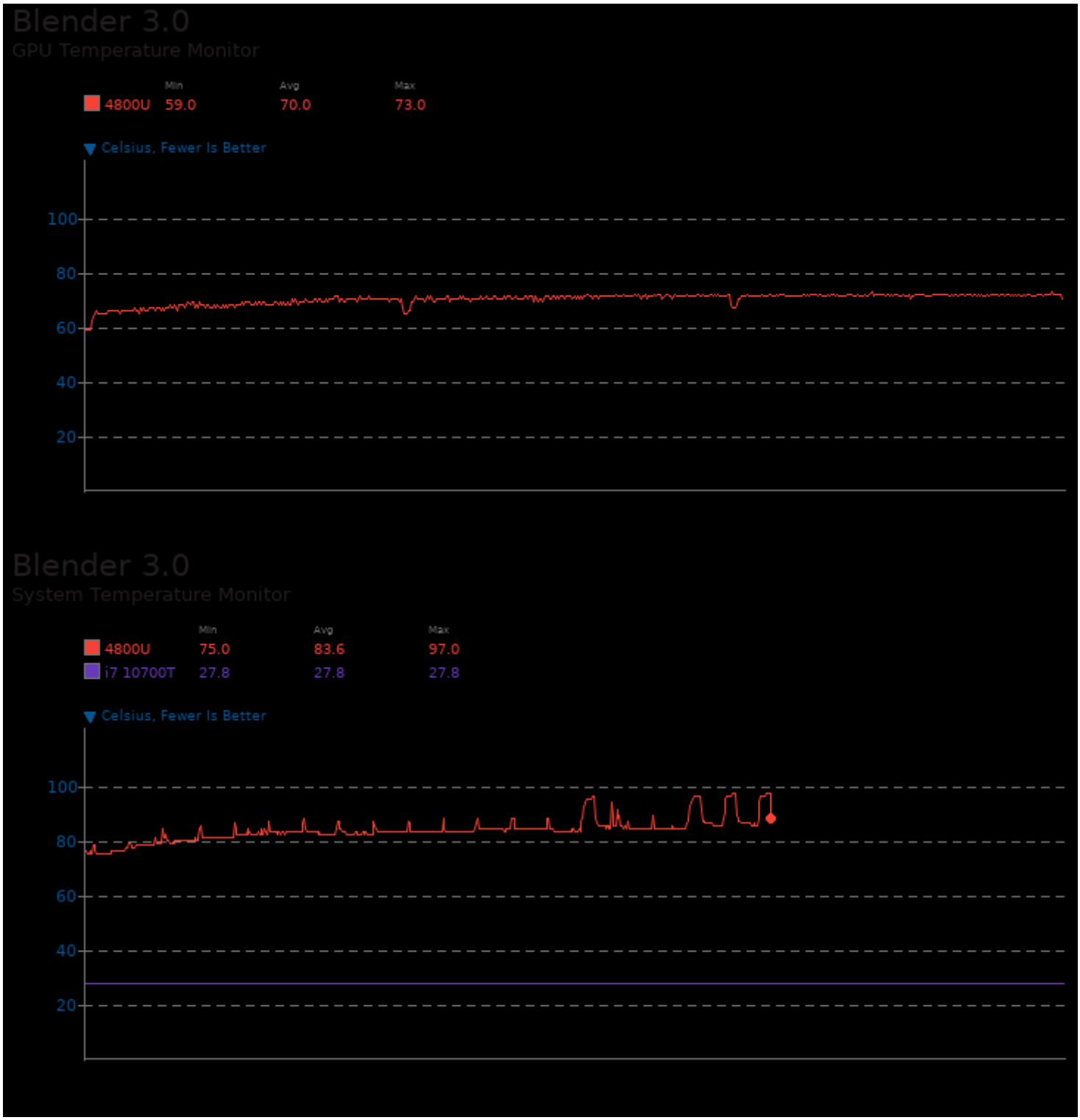

TNN 0.3
Target: CPU - Model: SqueezeNet v1.1
ms, Fewer Is Better
4800U
MIN: 248.14 / MAX: 250.76
248.77
SE +/- 0.14, N = 3
i7 10700T
MIN: 357.77 / MAX: 359.09
358.06
SE +/- 0.03, N = 3
80
160
240
320
400
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl
TNN 0.3
CPU Temperature Monitor
Min
Avg
Max
4800U
71.0
88.3
92.4
i7 10700T
63.0
73.0
78.0
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

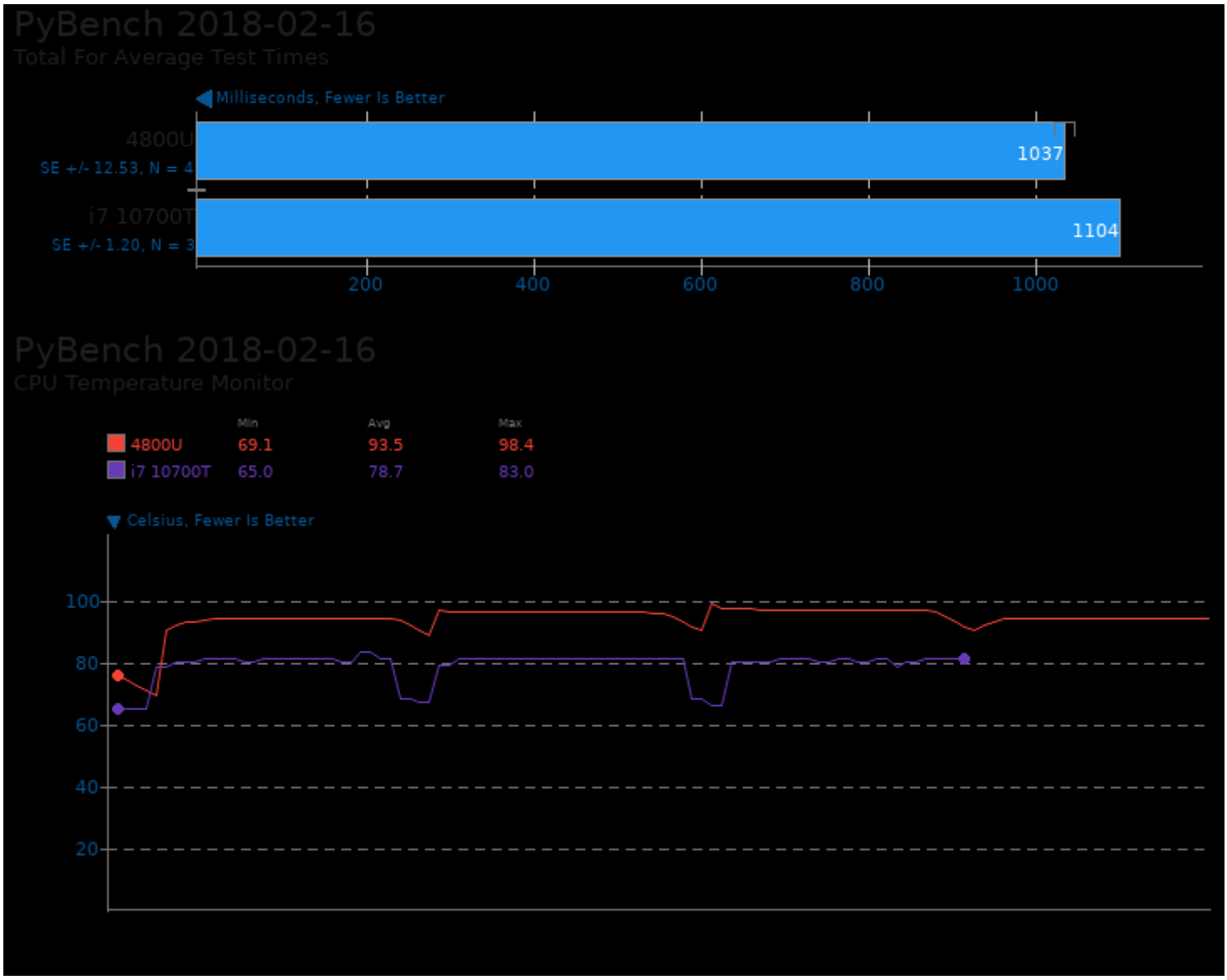


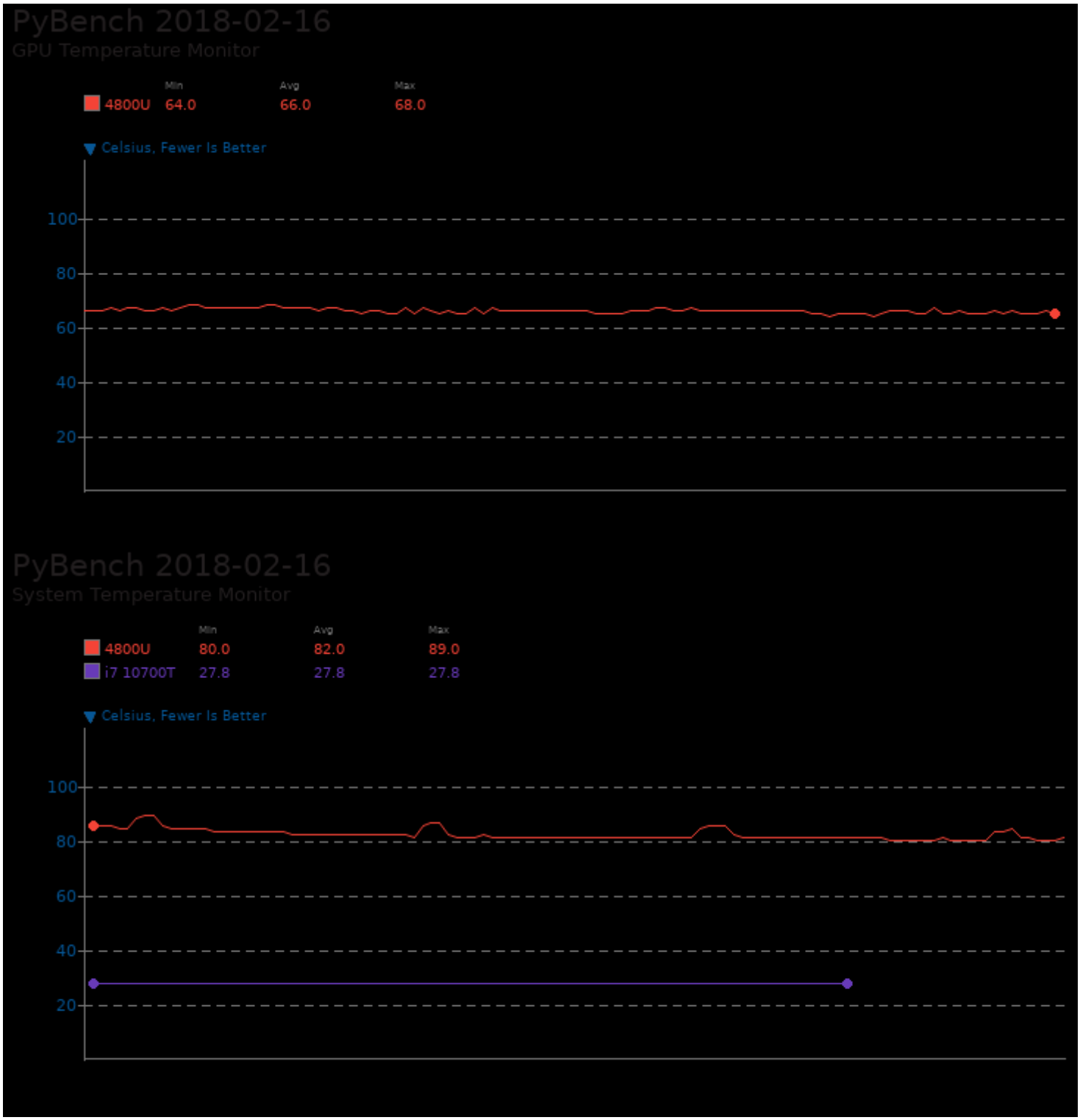
OnLogic Ryzen 4800U

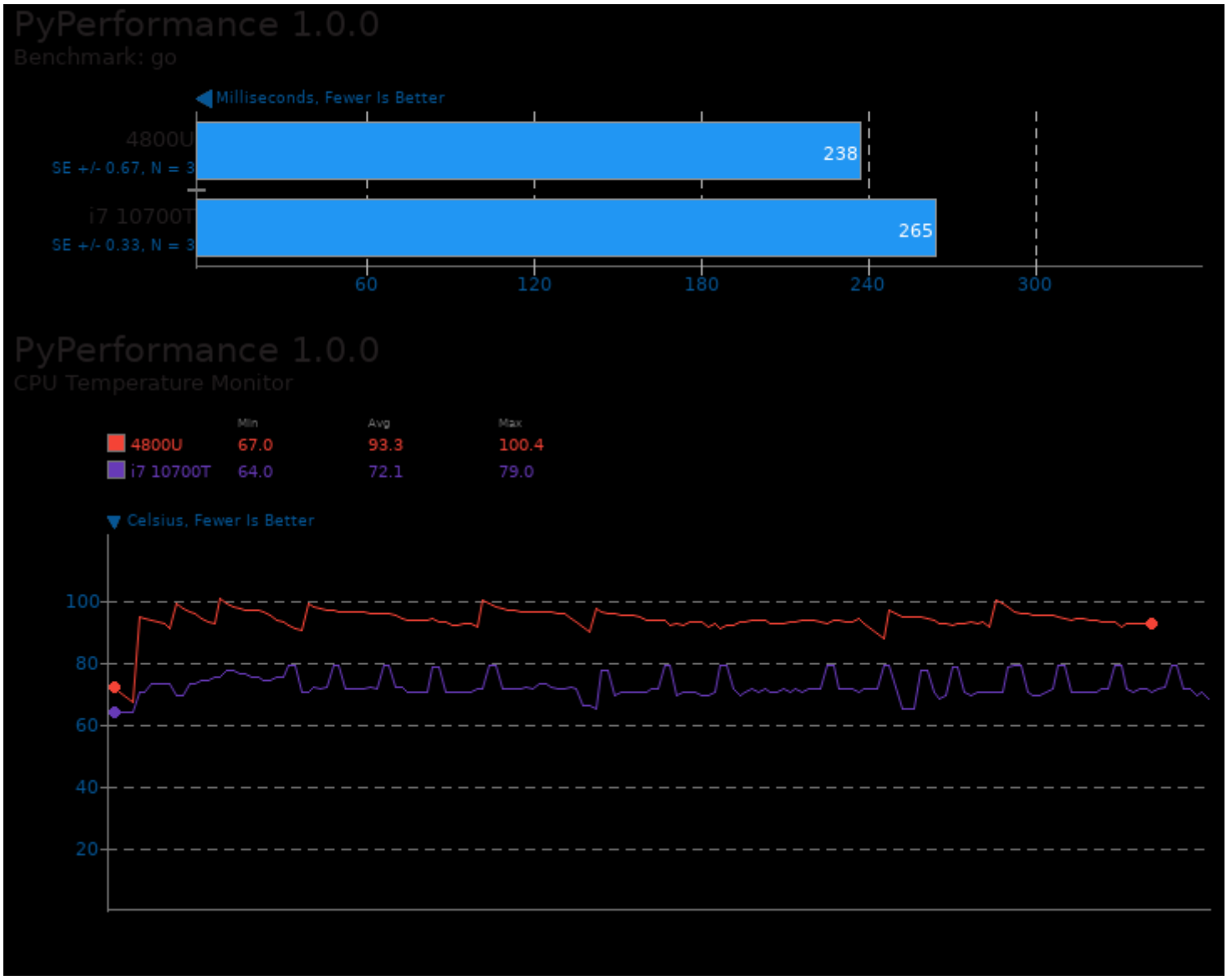



Blender 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 59.0 70.0 73.0
Celsius, Fewer Is Better
100
80
60
40
20
Blender 3.0
System Temperature Monitor
Min
Avg
Max
4800U 75.0 83.6 97.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

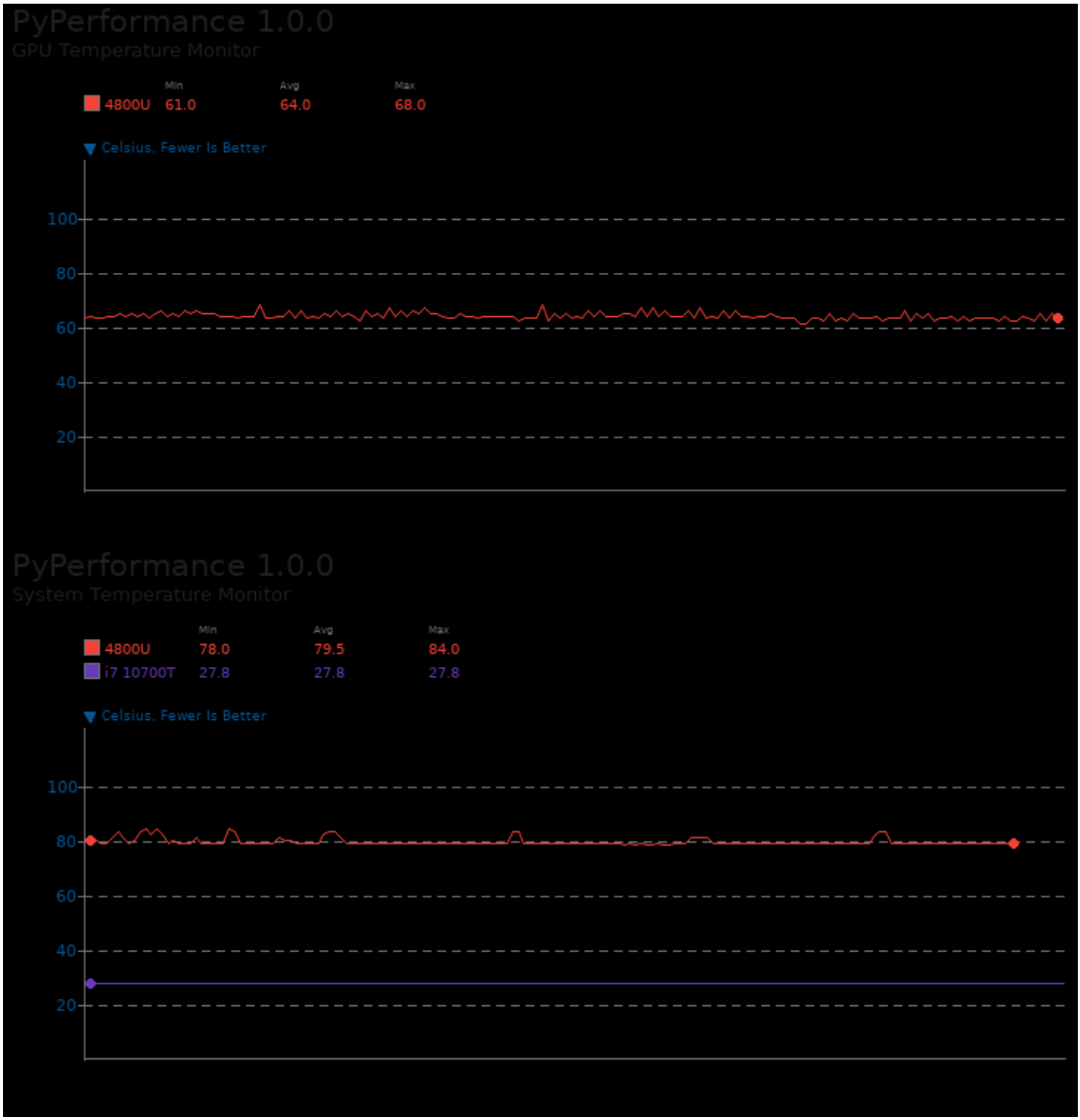
OnLogic Ryzen 4800U



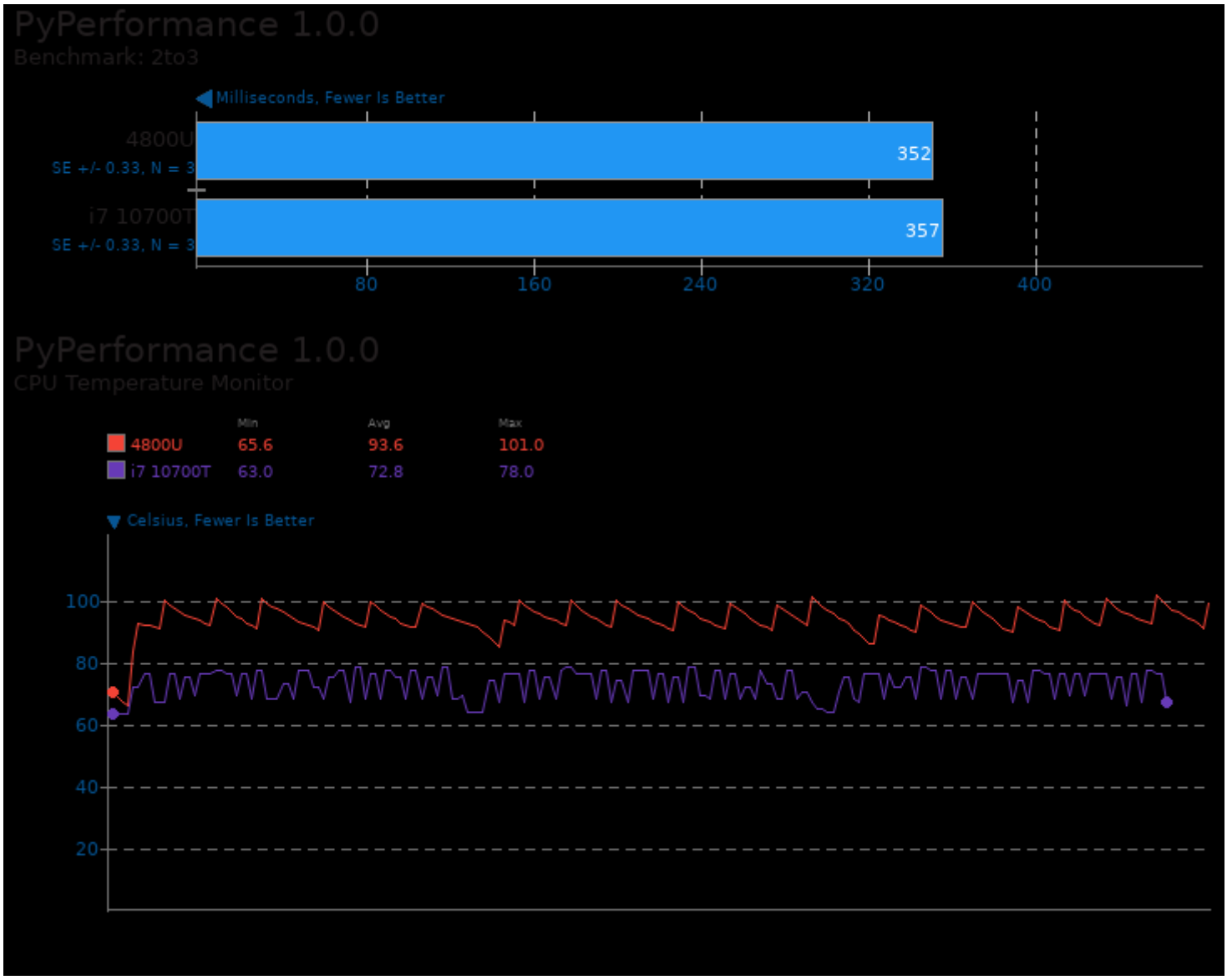

PyBench 2018-02-16
GPU Temperature Monitor
Min
Avg
Max
4800U 64.0 66.0 68.0
Celsius, Fewer Is Better
100
80
60
40
20
PyBench 2018-02-16
System Temperature Monitor
Min
Avg
Max
4800U 80.0 82.0 89.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


PyPerformance 1.0.0
Benchmark: go
Milliseconds, Fewer Is Better
4800U
SE +/- 0.67, N = 3
238
i7 10700T
SE +/- 0.33, N = 3
265
60
120
180
240
300
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U 67.0 93.3 100.4
i7 10700T 64.0 72.1 79.0
Celsius, Fewer Is Better
100
80
60
40
20

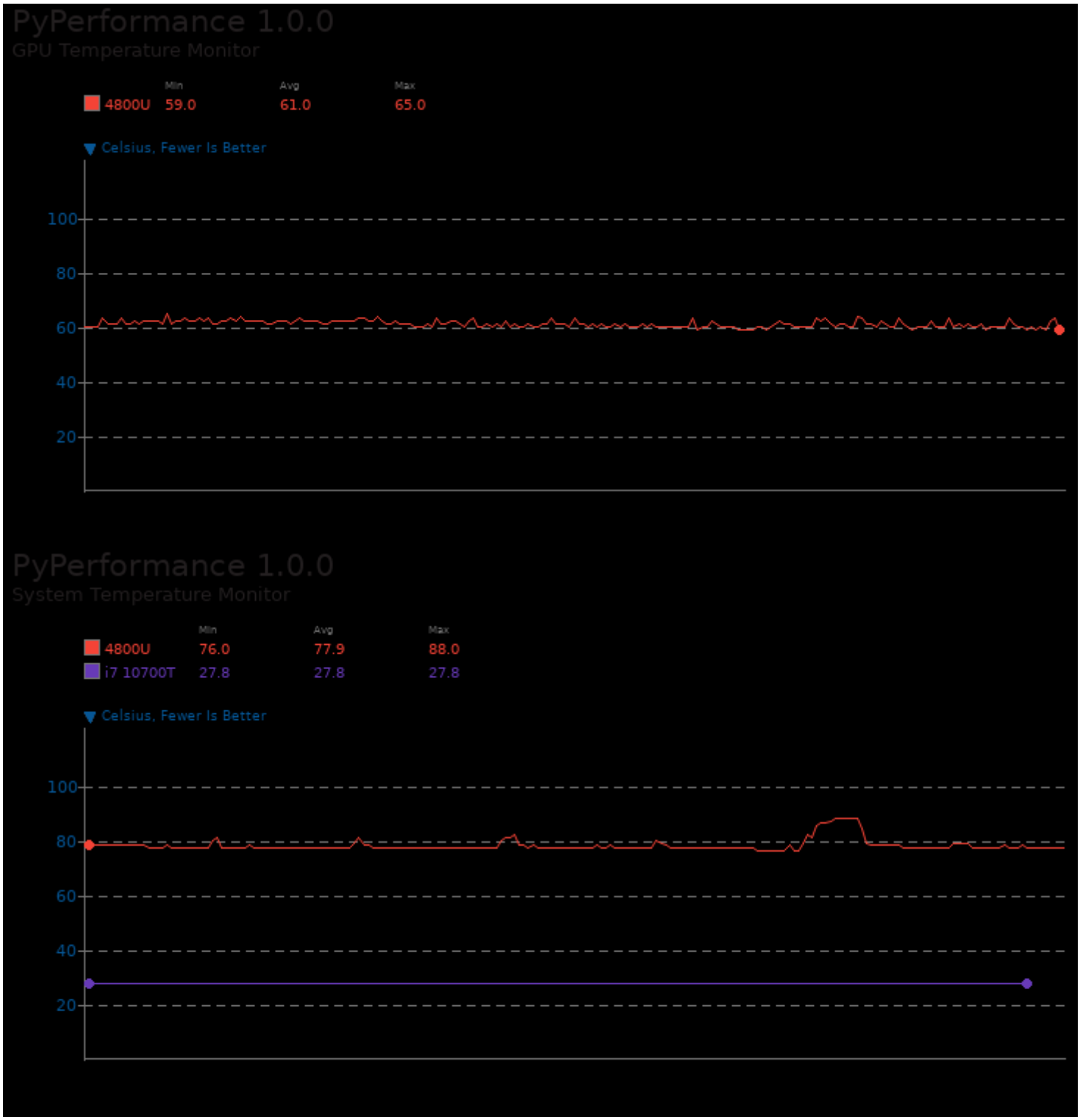
OnLogic Ryzen 4800U

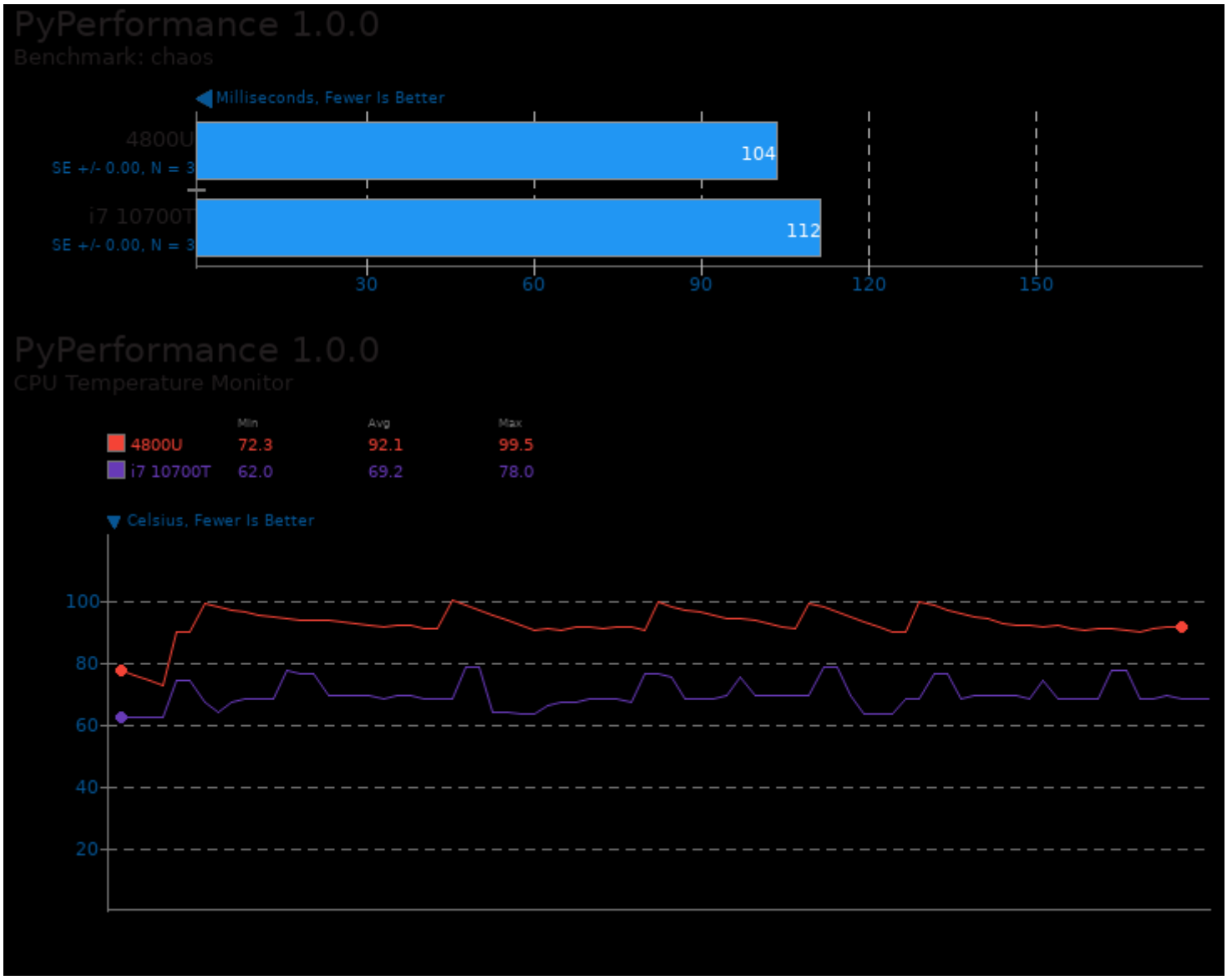


OnLogic Ryzen 4800U

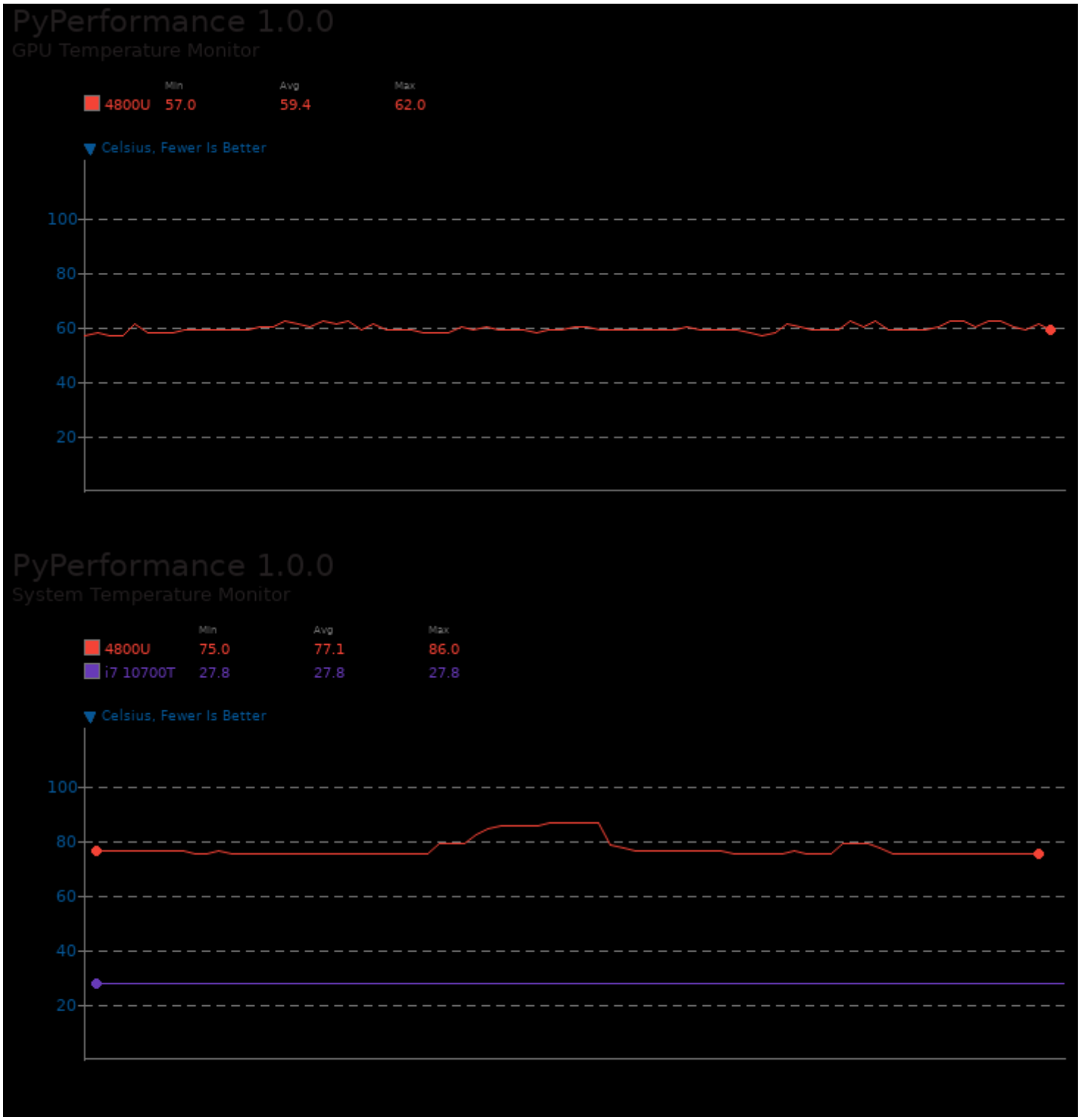


OnLogic Ryzen 4800U

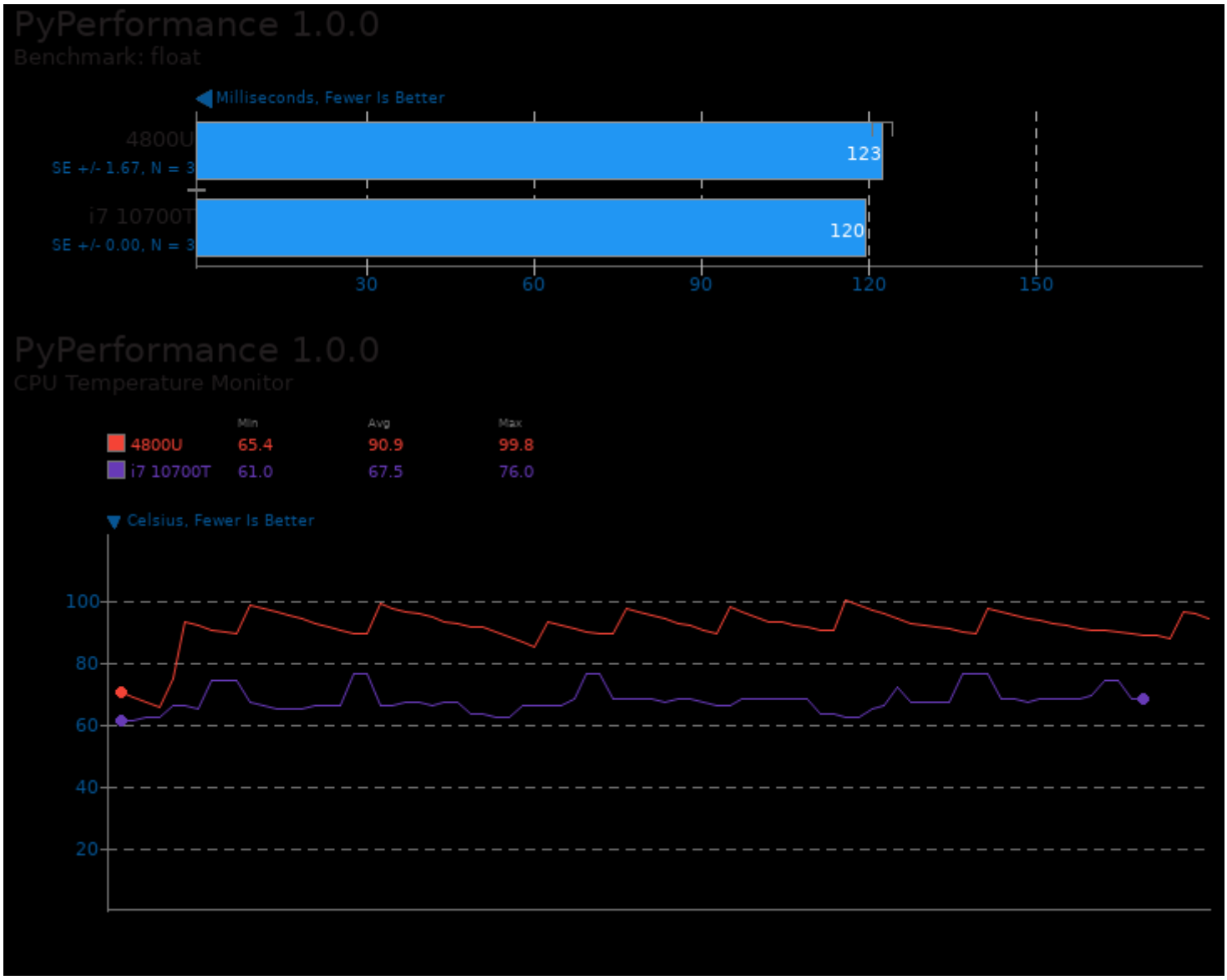



PyPerformance 1.0.0
Benchmark: chaos
Milliseconds, Fewer Is Better
4800U
SE +/- 0.00, N = 3
104
i7 10700T
SE +/- 0.00, N = 3
112
30
60
90
120
150
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U 72.3 92.1 99.5
i7 10700T 62.0 69.2 78.0
Celsius, Fewer Is Better
100
80
60
40
20

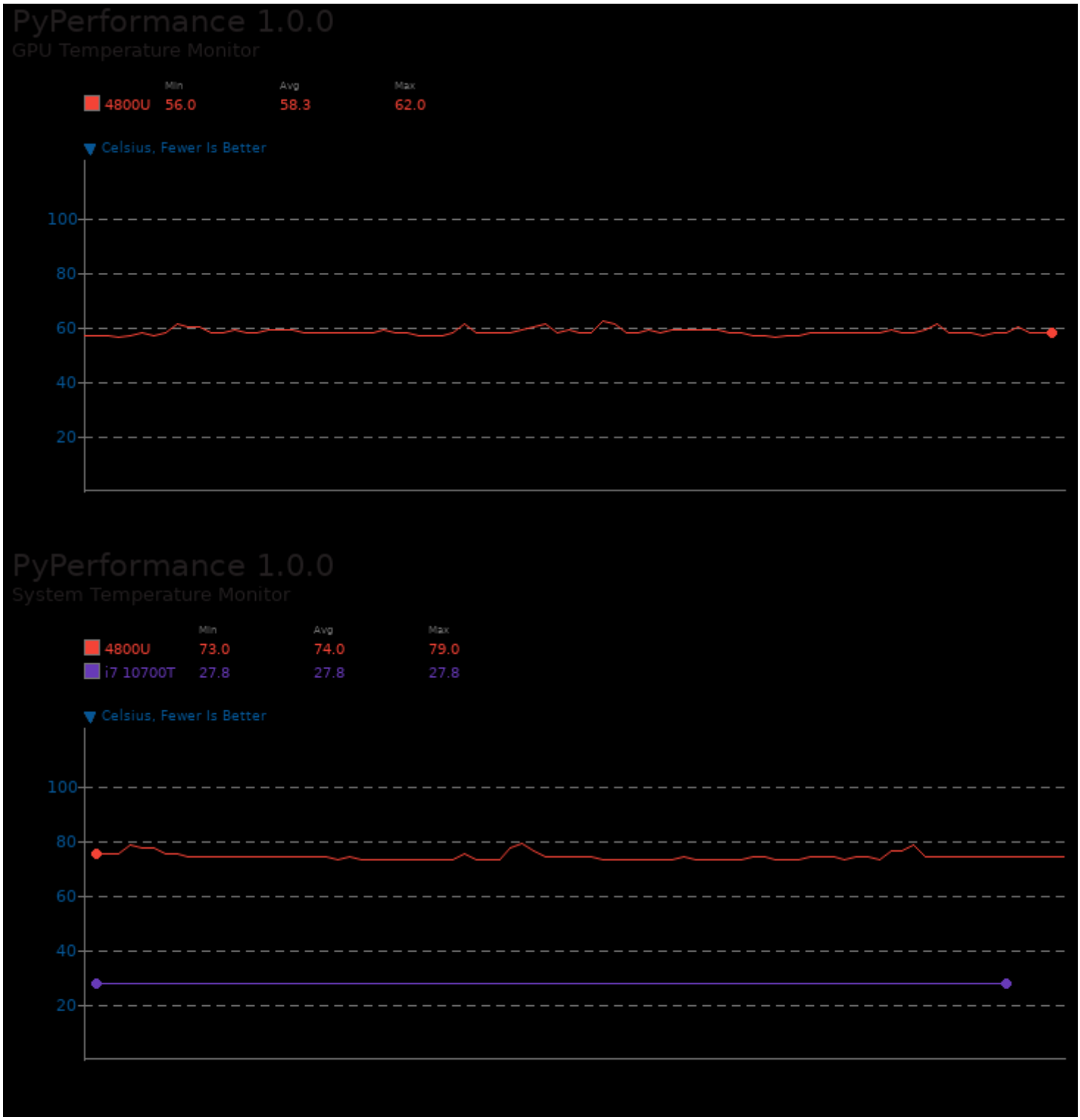
OnLogic Ryzen 4800U



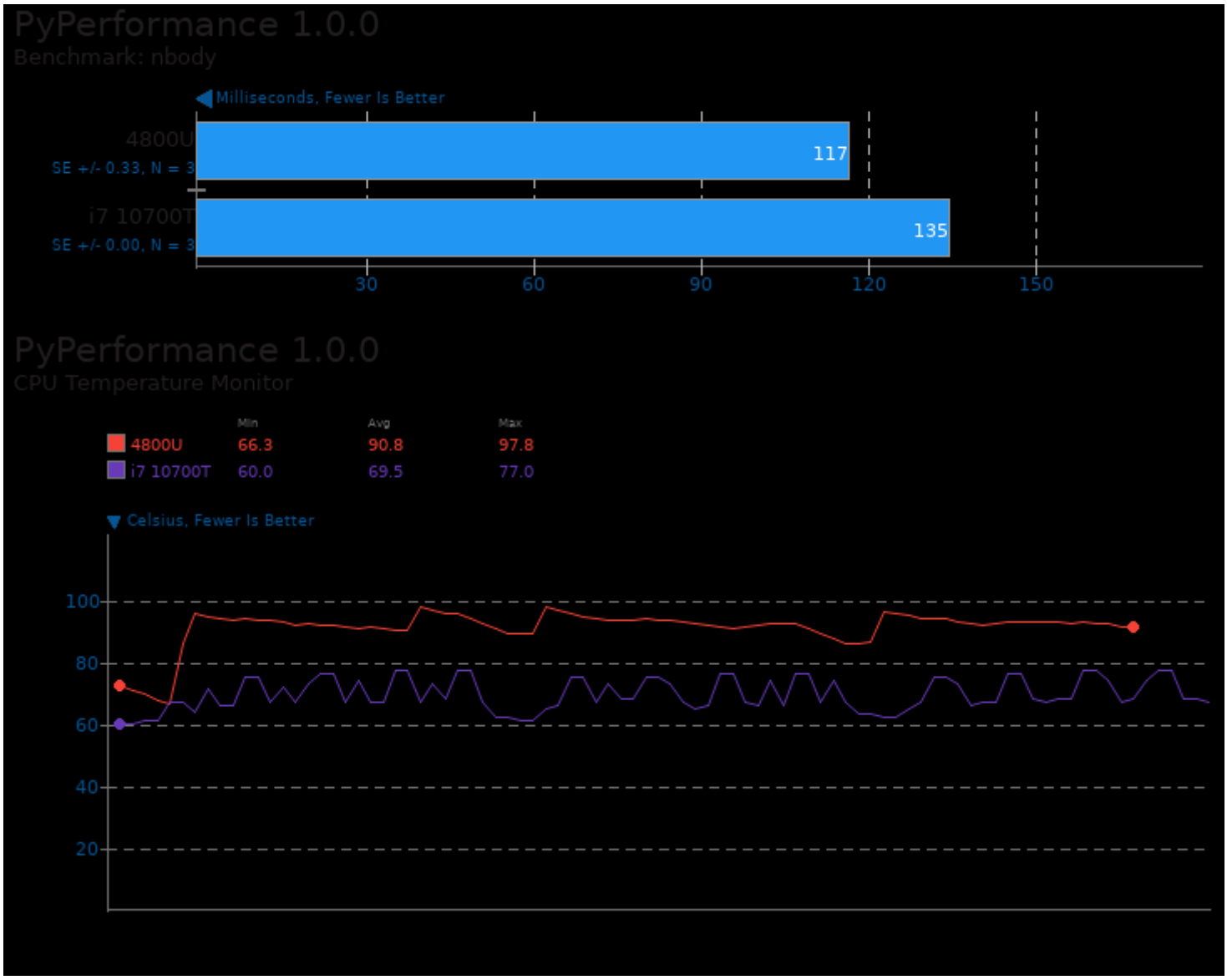
OnLogic Ryzen 4800U



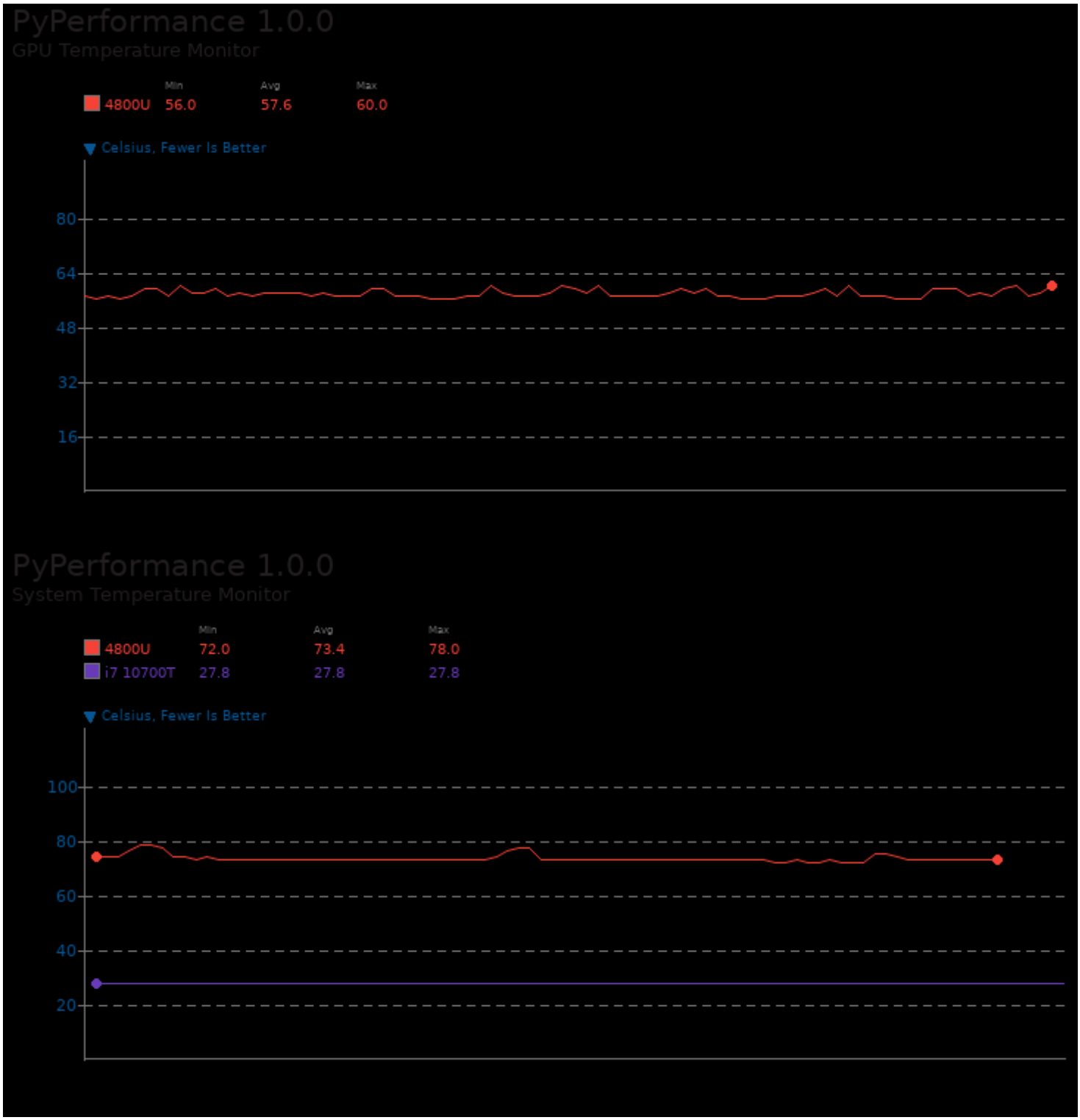
OnLogic Ryzen 4800U

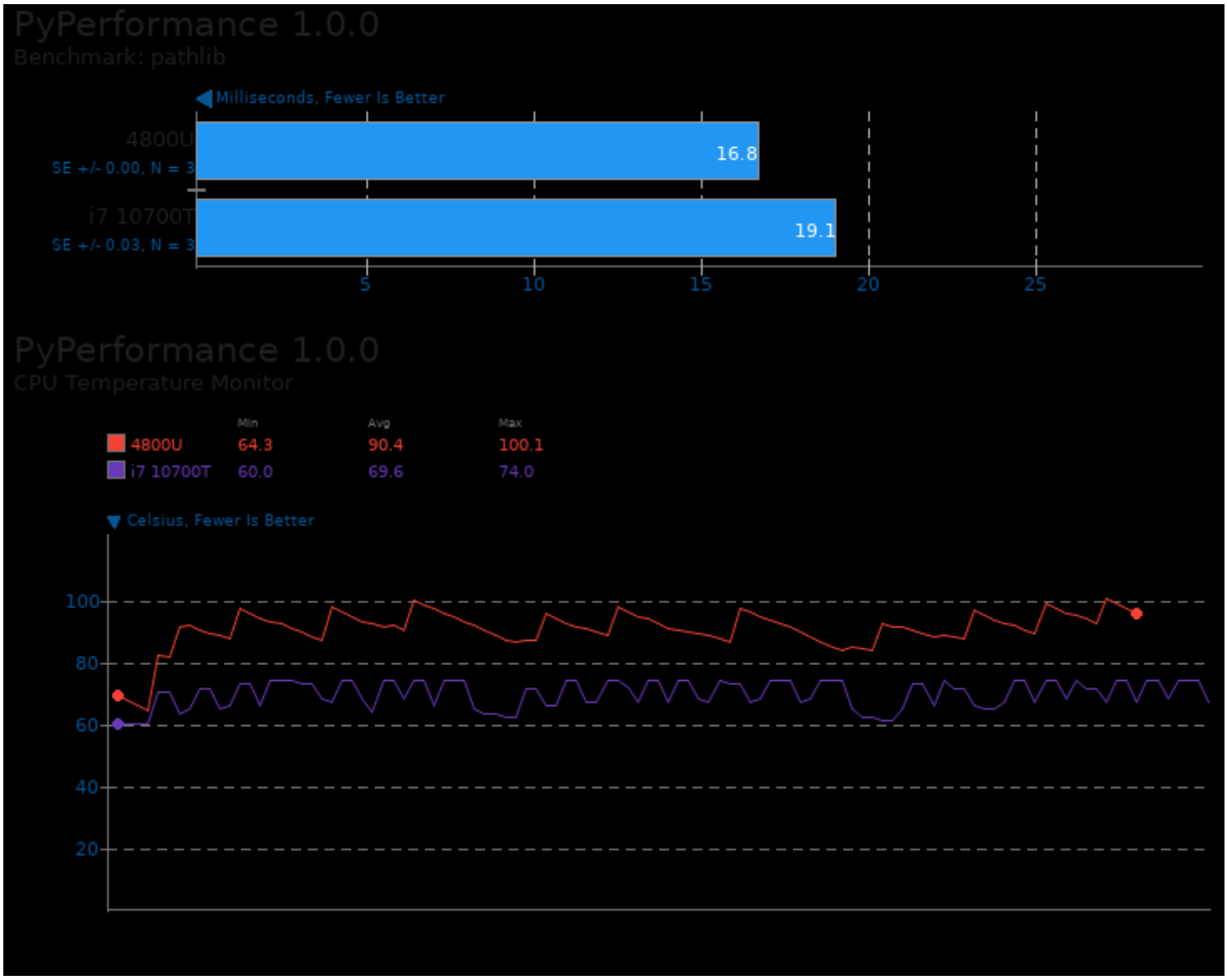


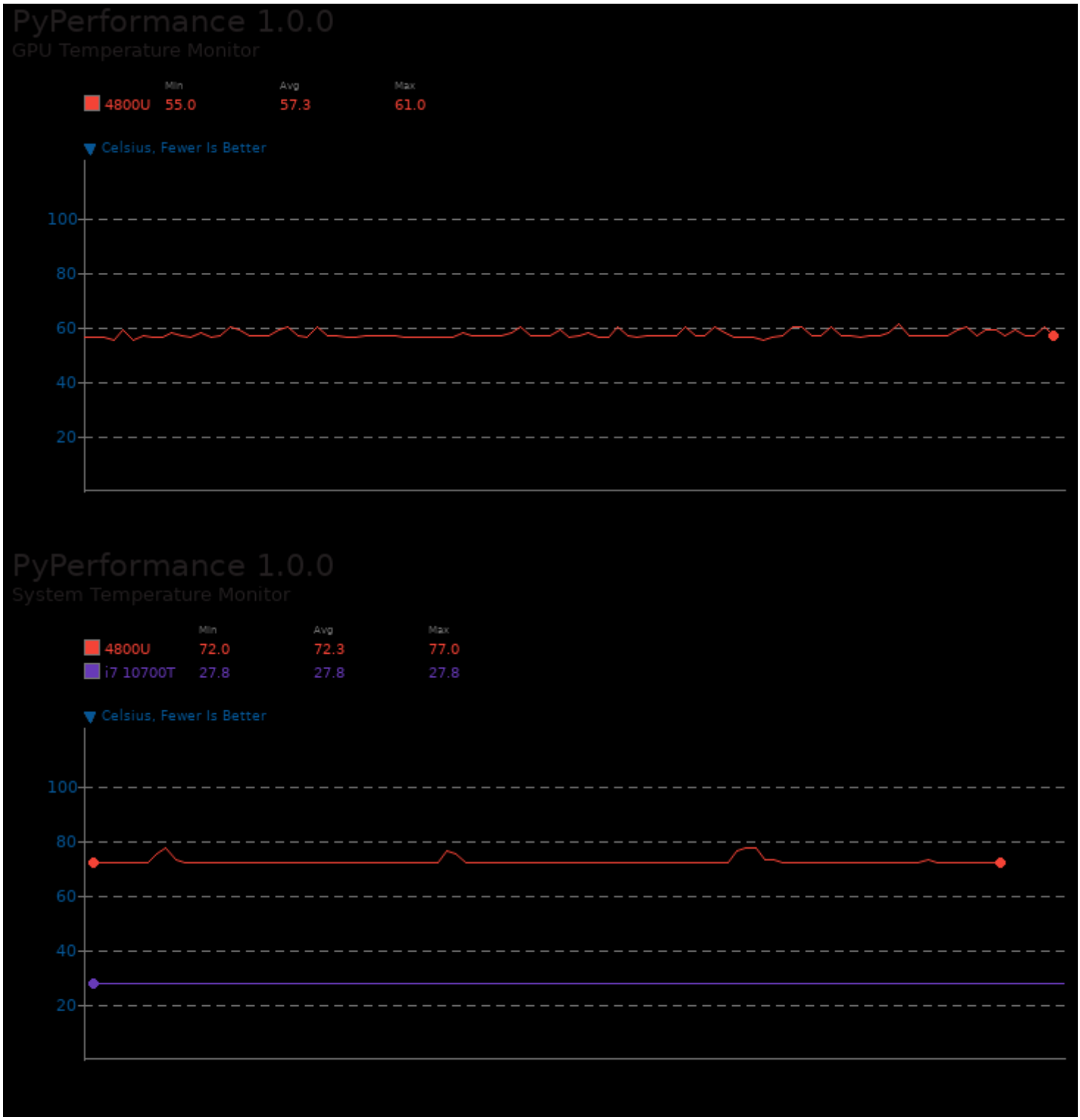
OnLogic Ryzen 4800U



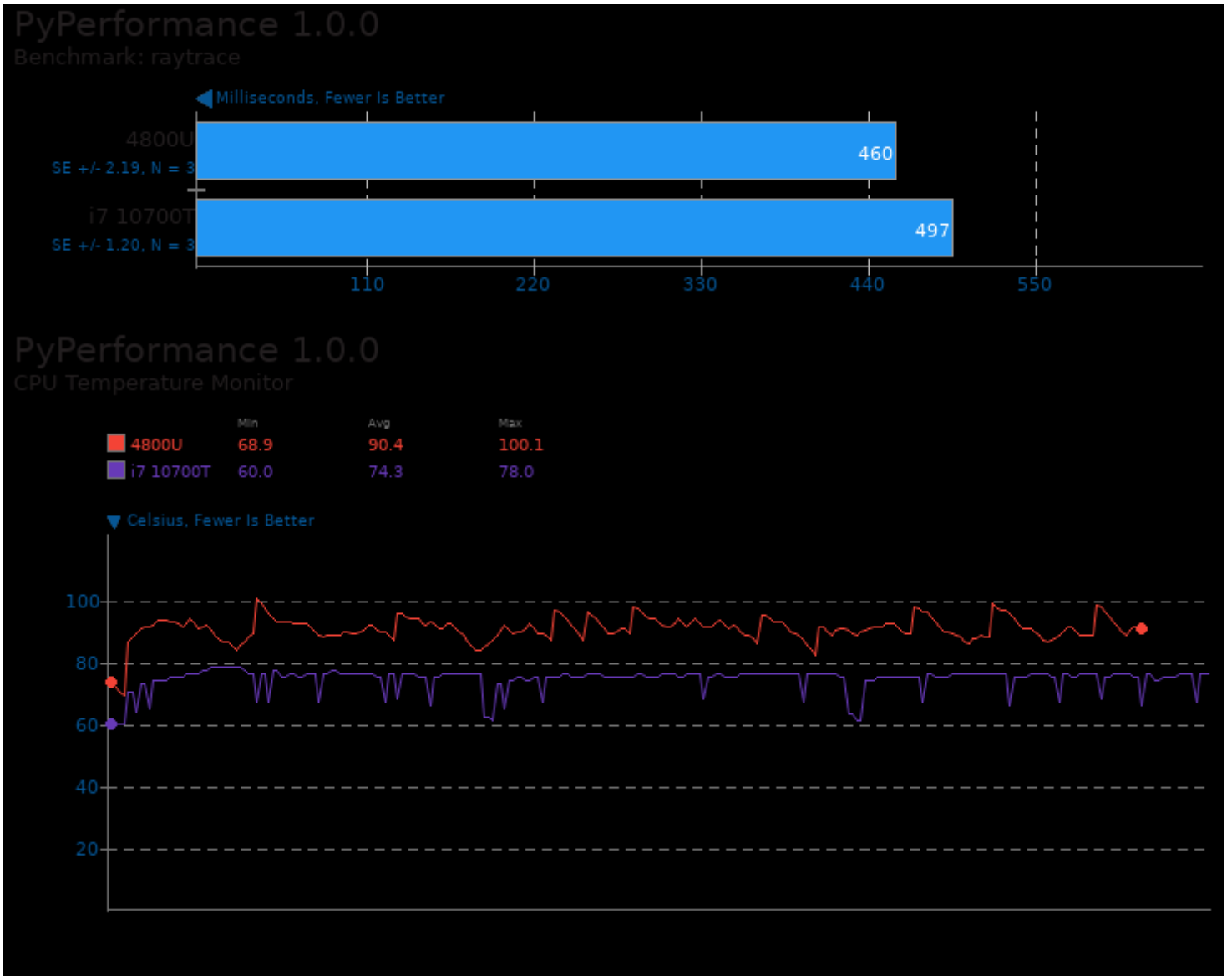
OnLogic Ryzen 4800U



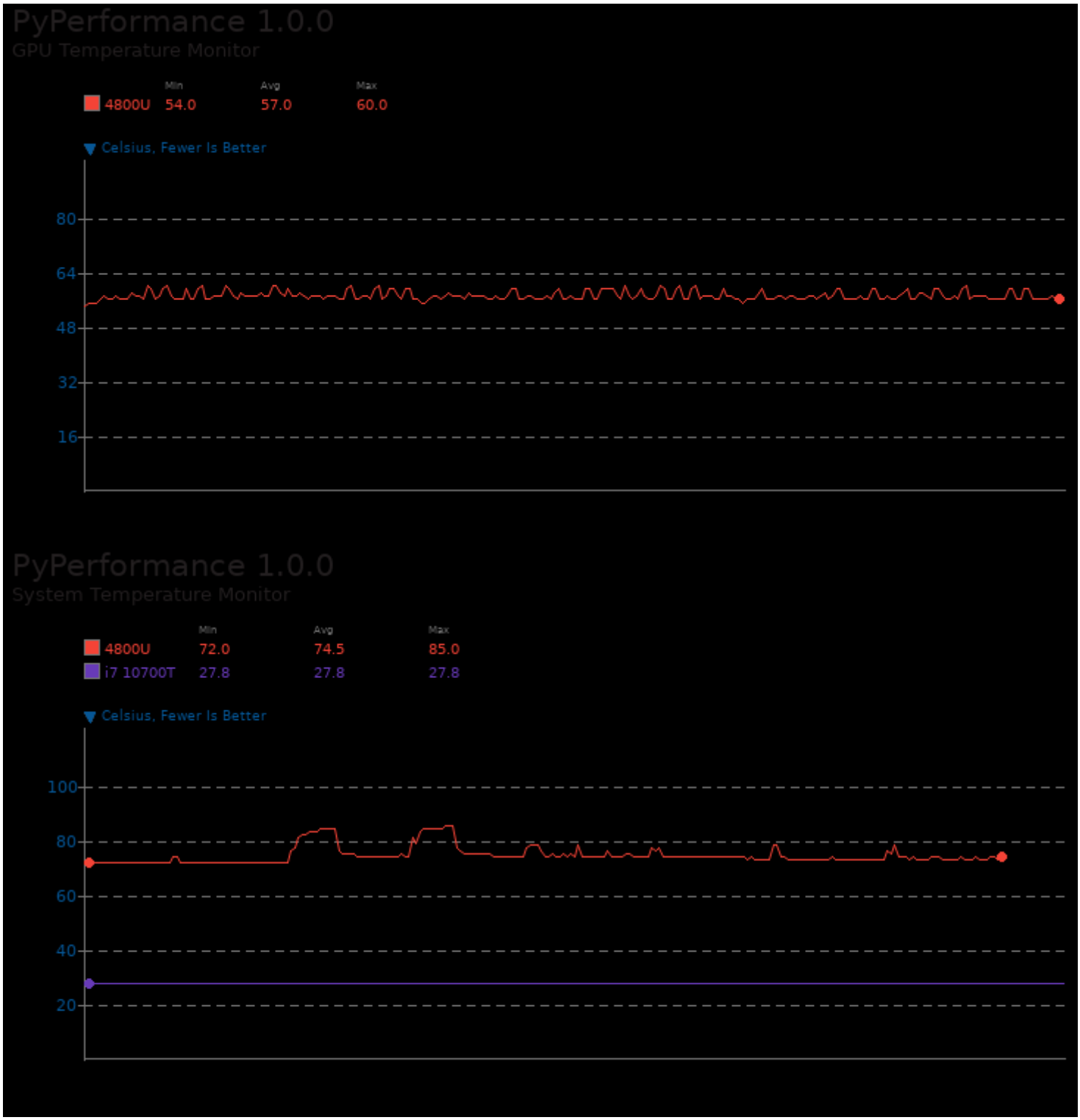

PyPerformance 1.0.0
Benchmark: pathlib
Milliseconds, Fewer Is Better
4800U
SE +/- 0.00, N = 3
16.8
i7 10700T
SE +/- 0.03, N = 3
19.1
5
10
15
20
25
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U
64.3
90.4
100.1
i7 10700T
60.0
69.6
74.0
Celsius, Fewer Is Better
100
80
60
40
20

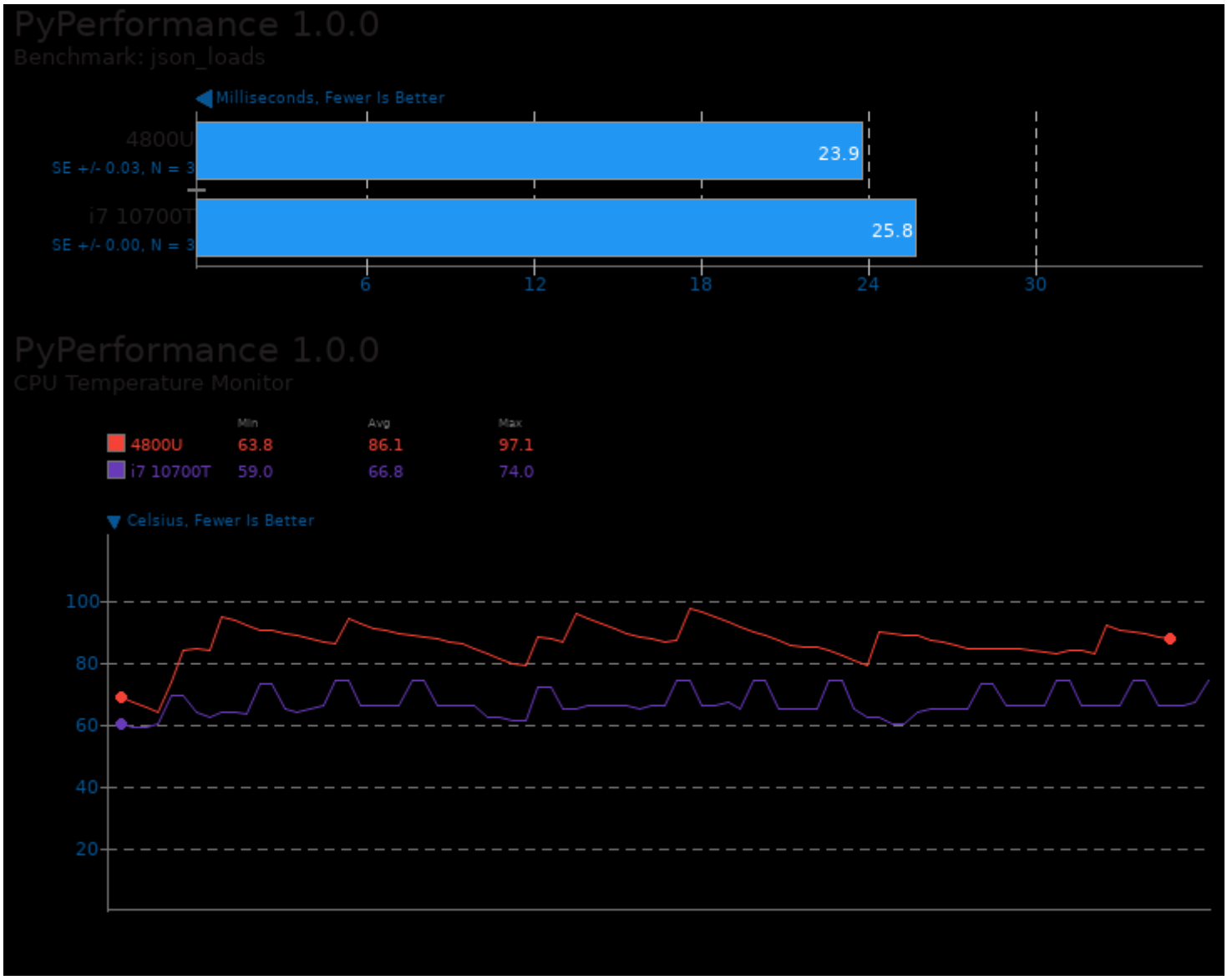

PyPerformance 1.0.0
GPU Temperature Monitor
Min
Avg
Max
4800U 55.0 57.3 61.0
Celsius, Fewer Is Better
100
80
60
40
20
PyPerformance 1.0.0
System Temperature Monitor
Min
Avg
Max
4800U 72.0 72.3 77.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

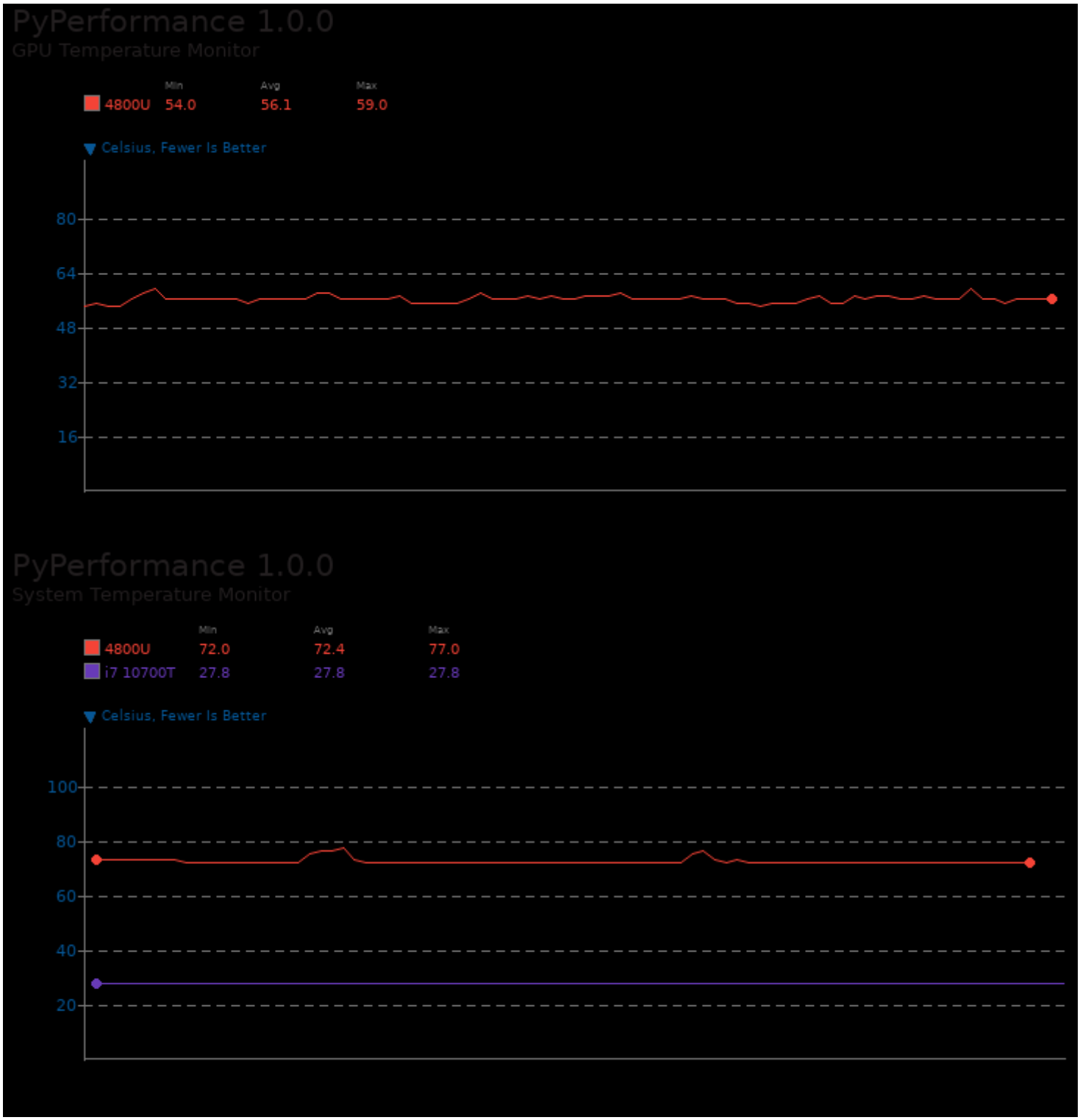


OnLogic Ryzen 4800U

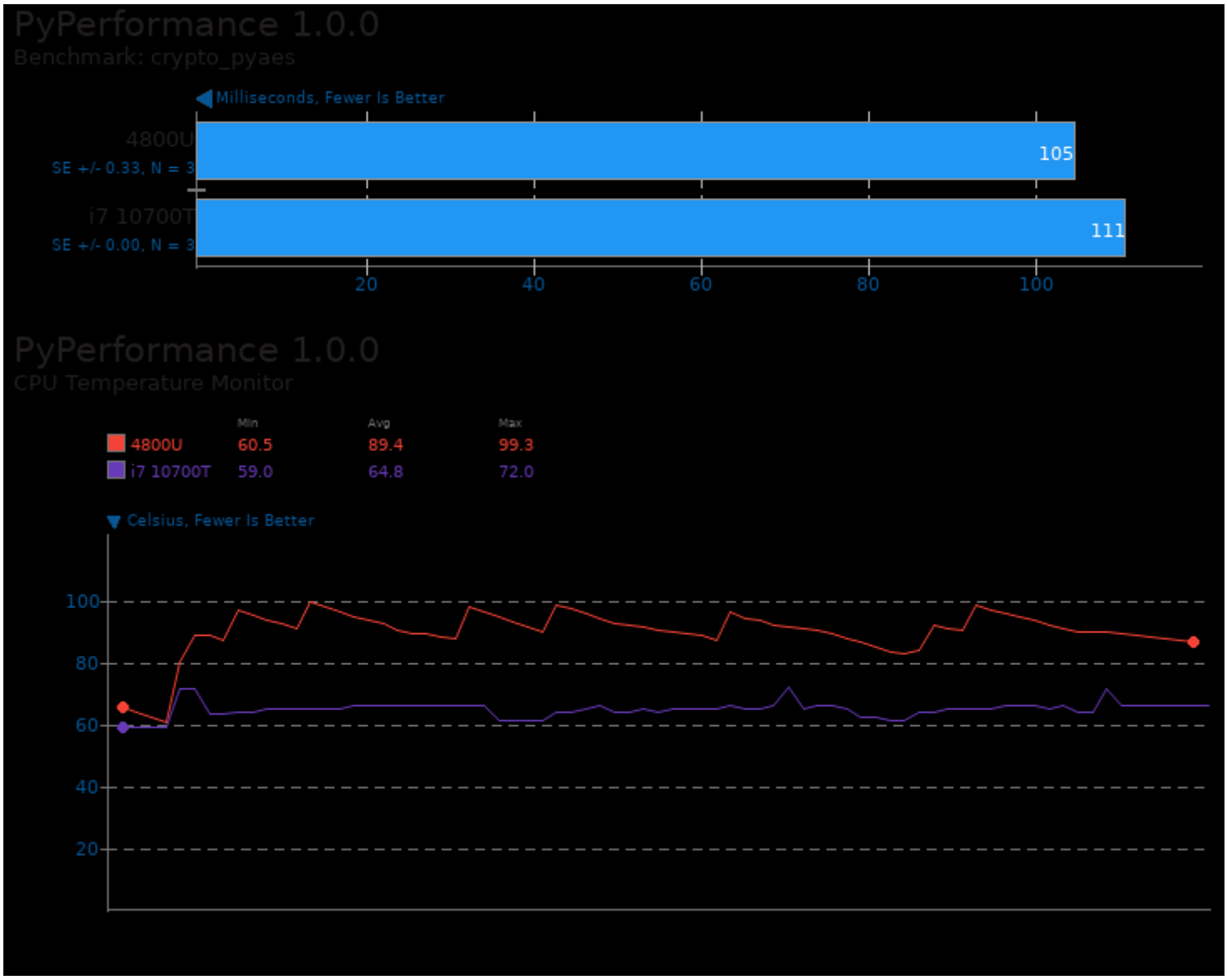



PyPerformance 1.0.0
Benchmark: json_loads
Milliseconds, Fewer Is Better
4800U
SE +/- 0.03, N = 3
23.9
i7 10700T
SE +/- 0.00, N = 3
25.8
6
12
18
24
30
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U 63.8 86.1 97.1
i7 10700T 59.0 66.8 74.0
Celsius, Fewer Is Better
100
80
60
40
20

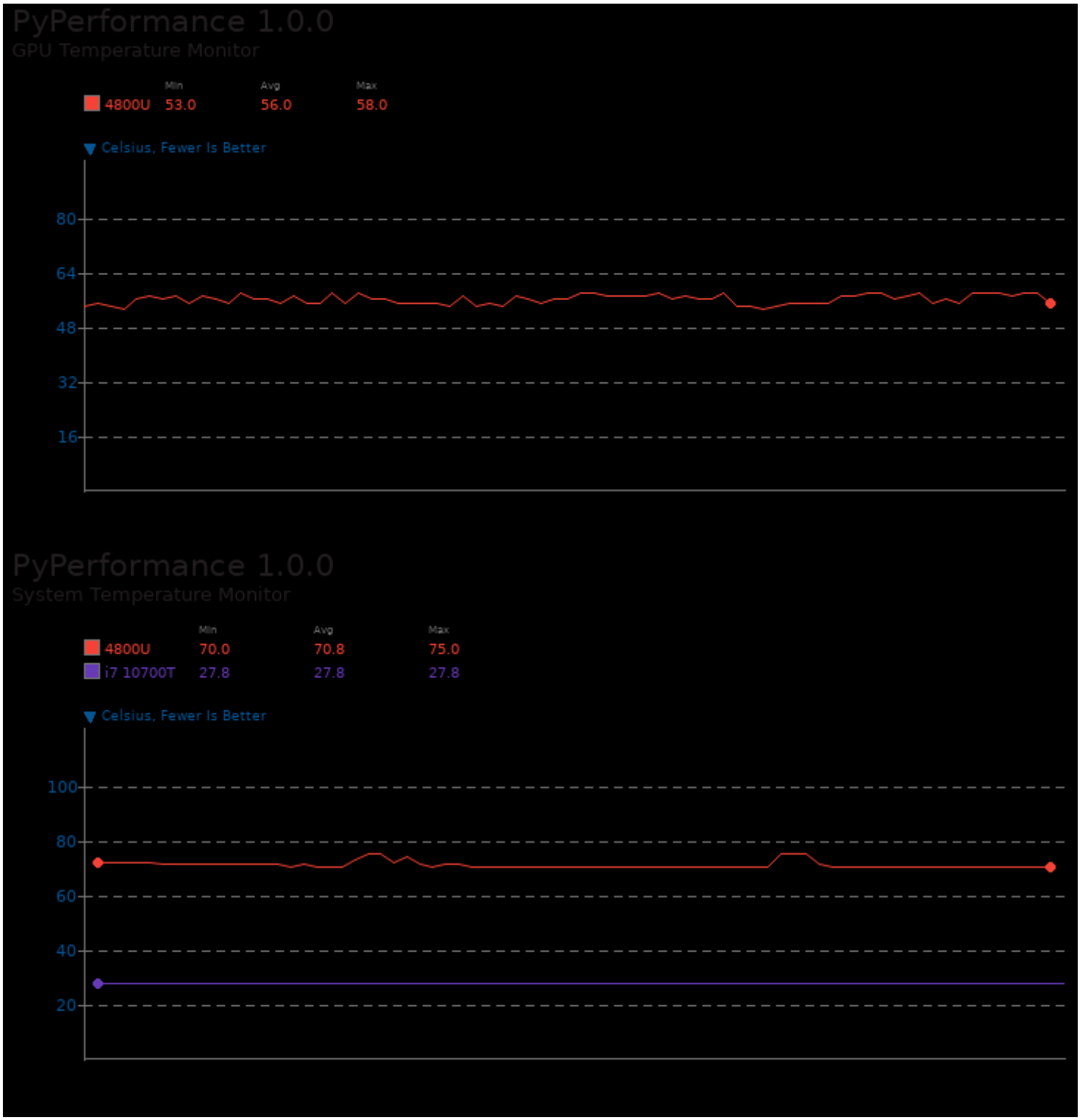
OnLogic Ryzen 4800U

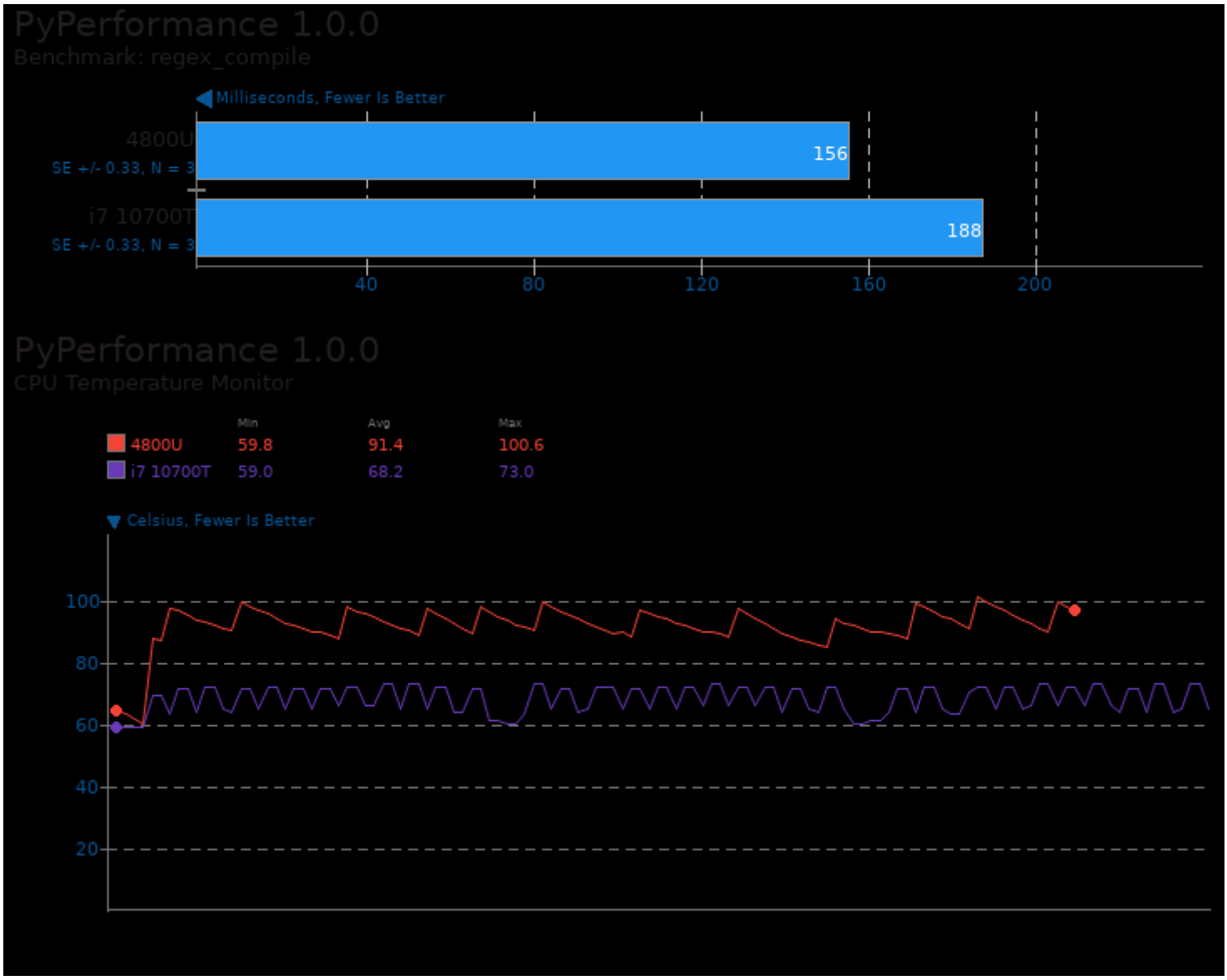


OnLogic Ryzen 4800U

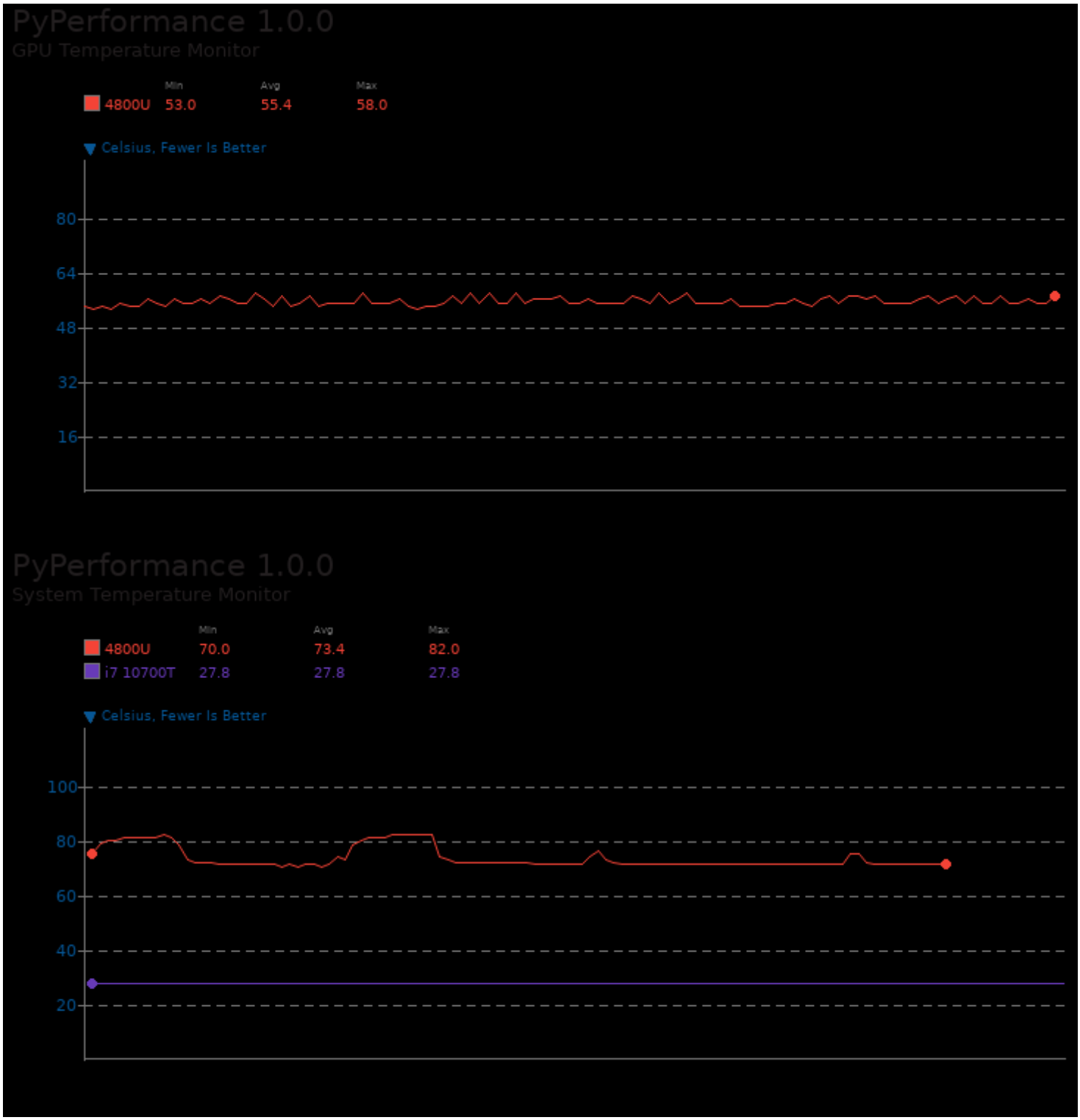


OnLogic Ryzen 4800U

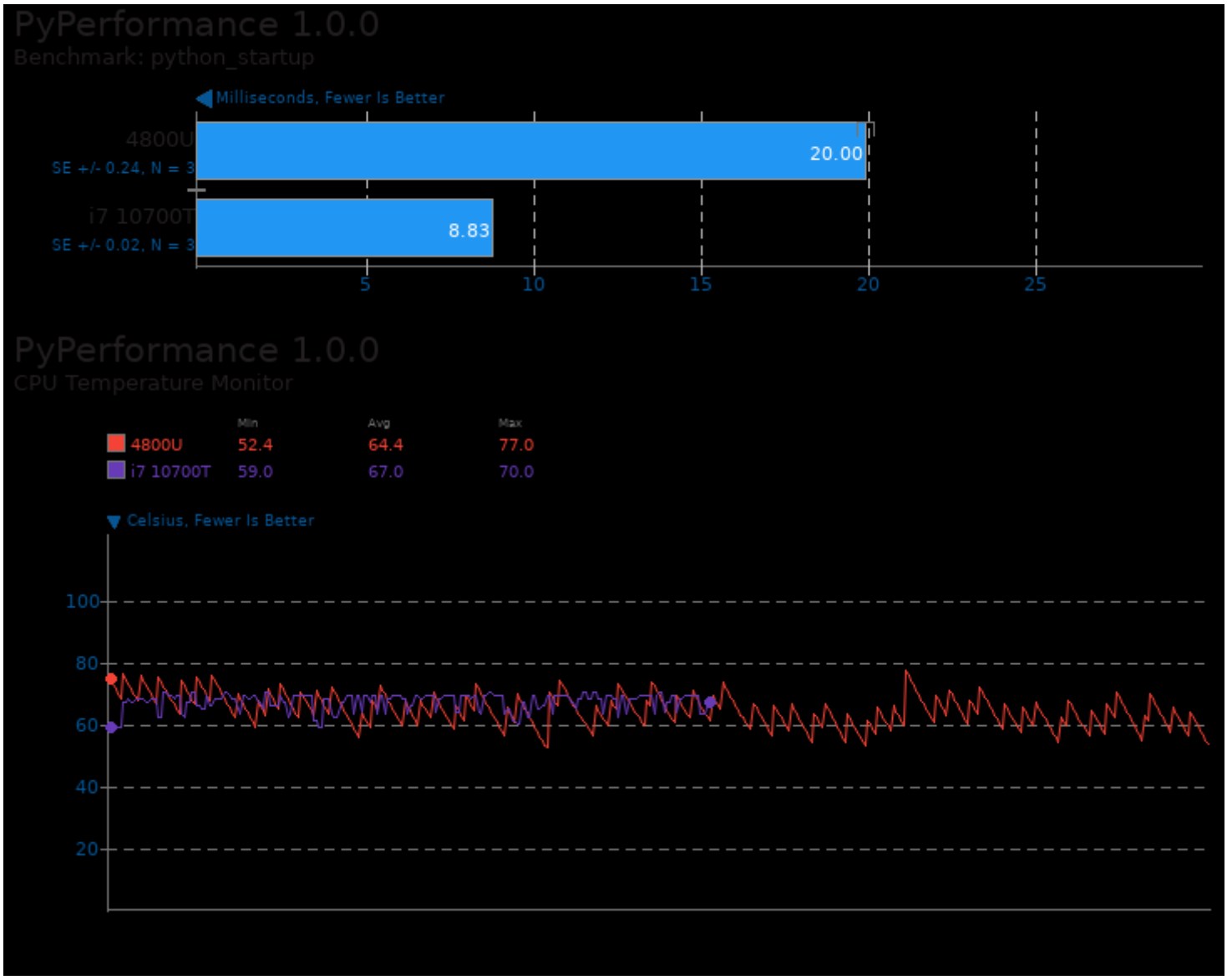


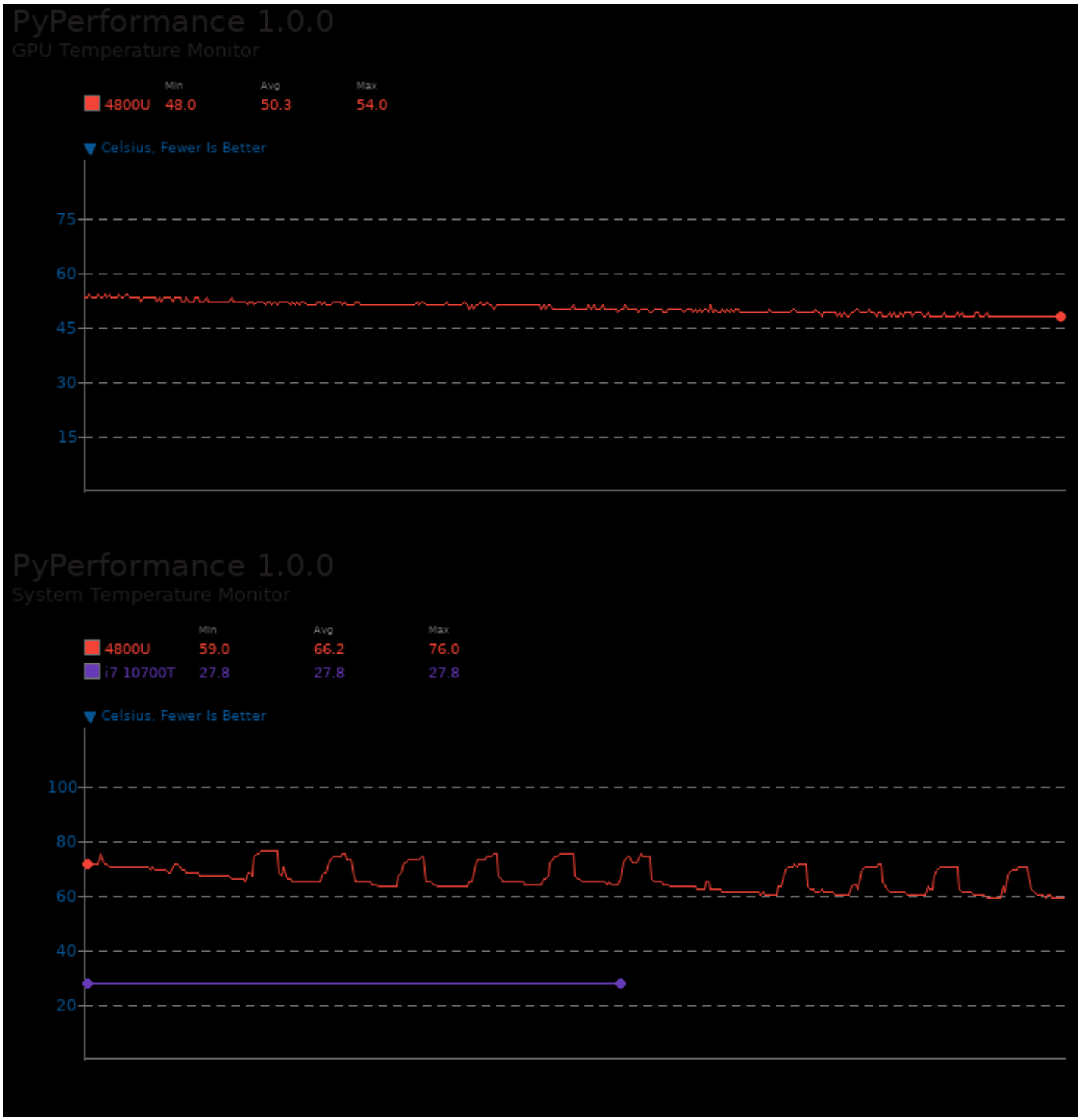

PyPerformance 1.0.0
Benchmark: regex_compile
Milliseconds, Fewer Is Better
4800U
SE +/- 0.33, N = 3
156
i7 10700T
SE +/- 0.33, N = 3
188
40
80
120
160
200
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U 59.8 91.4 100.6
i7 10700T 59.0 68.2 73.0
Celsius, Fewer Is Better
100
80
60
40
20

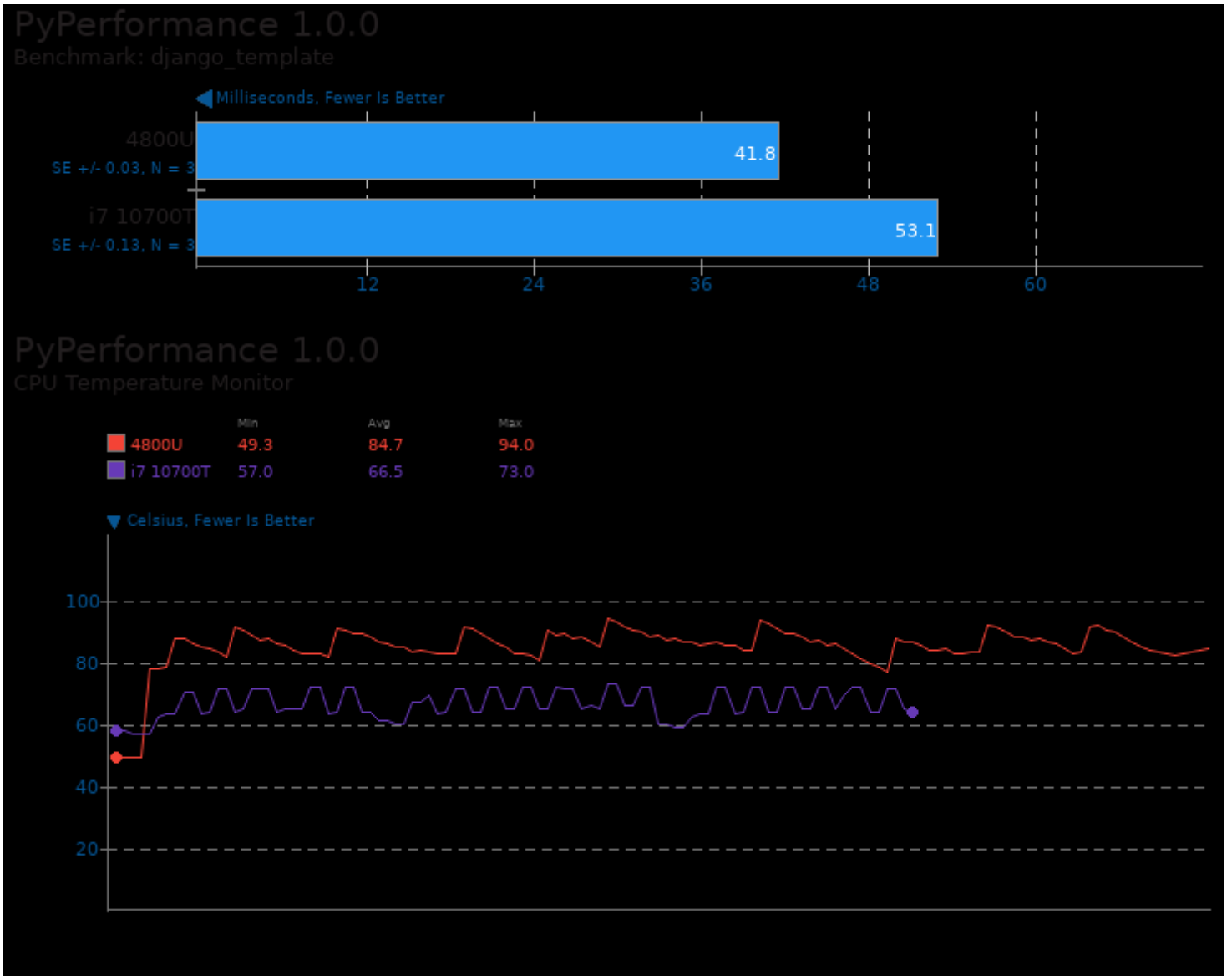
OnLogic Ryzen 4800U



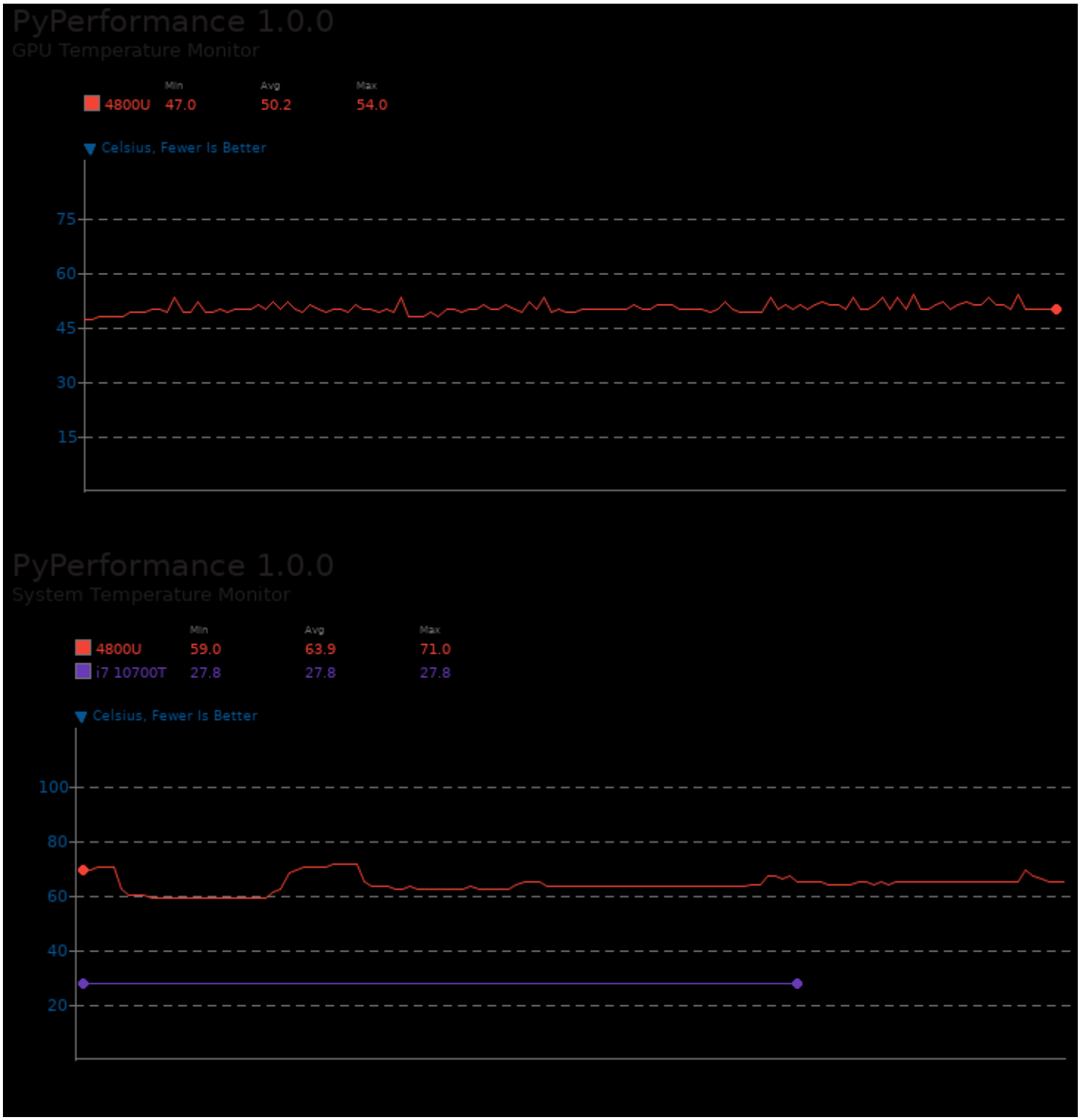
OnLogic Ryzen 4800U

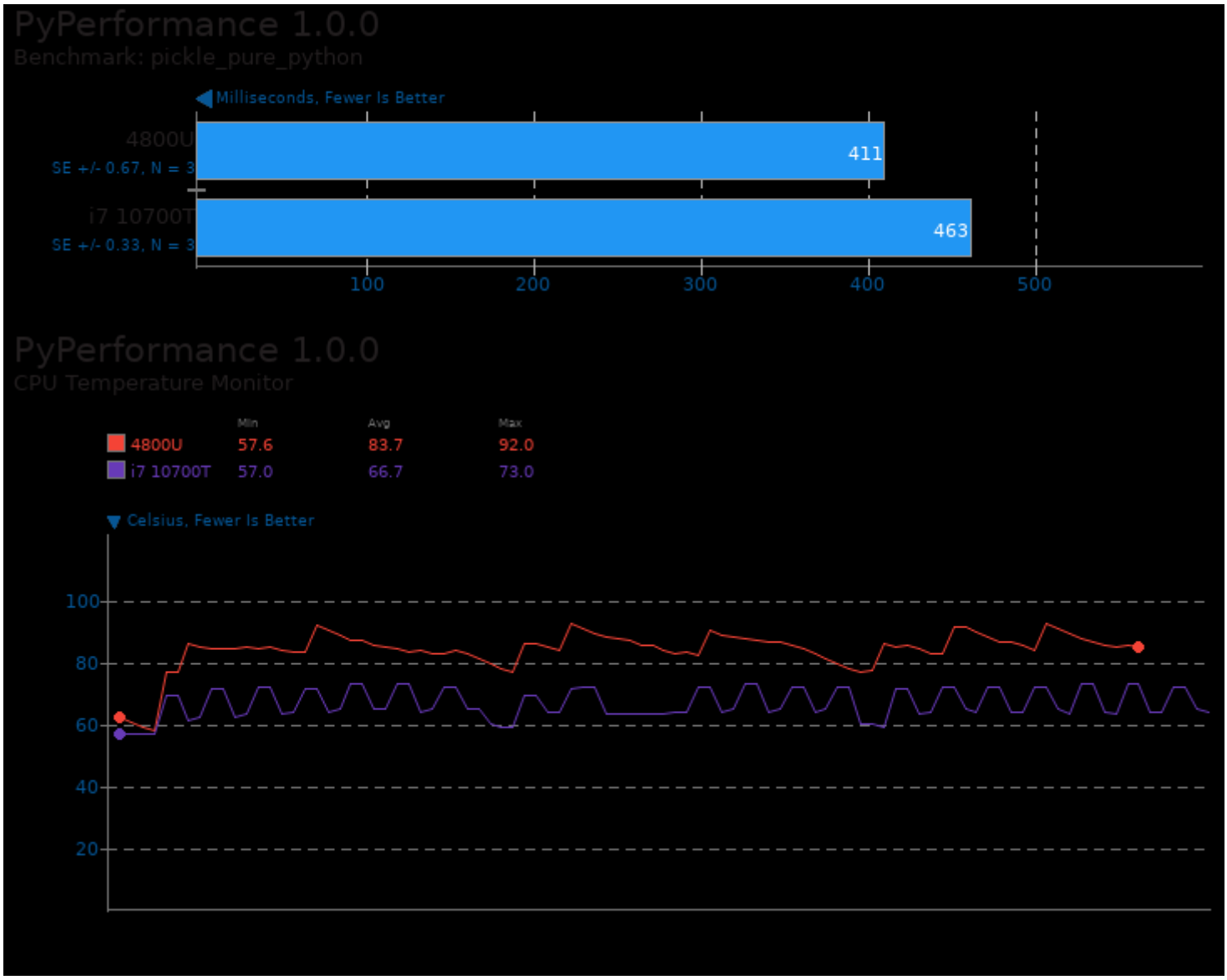


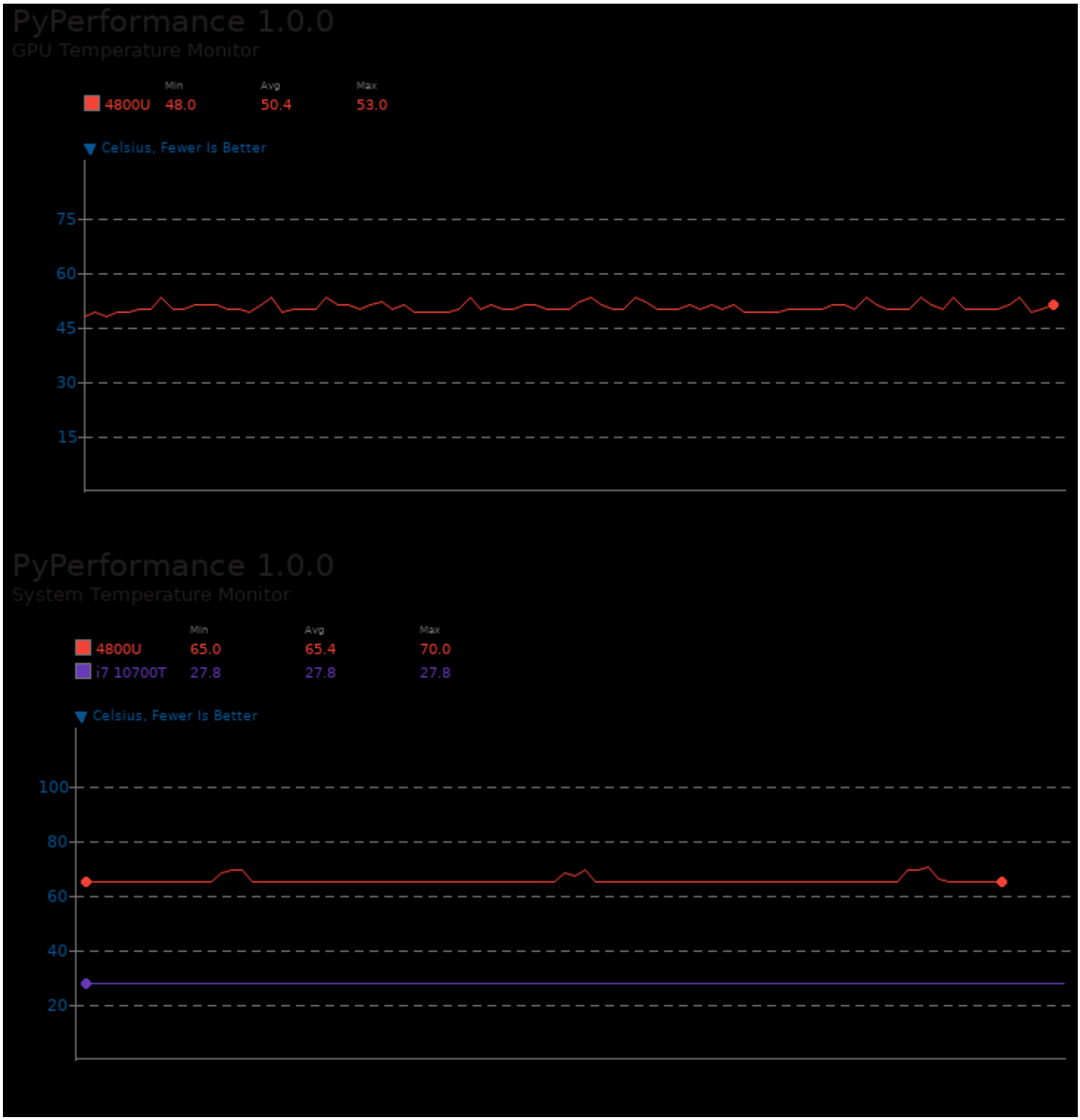

PyPerformance 1.0.0
GPU Temperature Monitor
Min
Avg
Max
4800U 48.0 50.3 54.0
Celsius, Fewer Is Better
75
60
45
30
15
PyPerformance 1.0.0
System Temperature Monitor
Min
Avg
Max
4800U 59.0 66.2 76.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


PyPerformance 1.0.0
Benchmark: django_template
Milliseconds, Fewer Is Better
4800U
SE +/- 0.03, N = 3
41.8
i7 10700T
SE +/- 0.13, N = 3
53.1
12
24
36
48
60
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U 49.3 84.7 94.0
i7 10700T 57.0 66.5 73.0
Celsius, Fewer Is Better
100
80
60
40
20

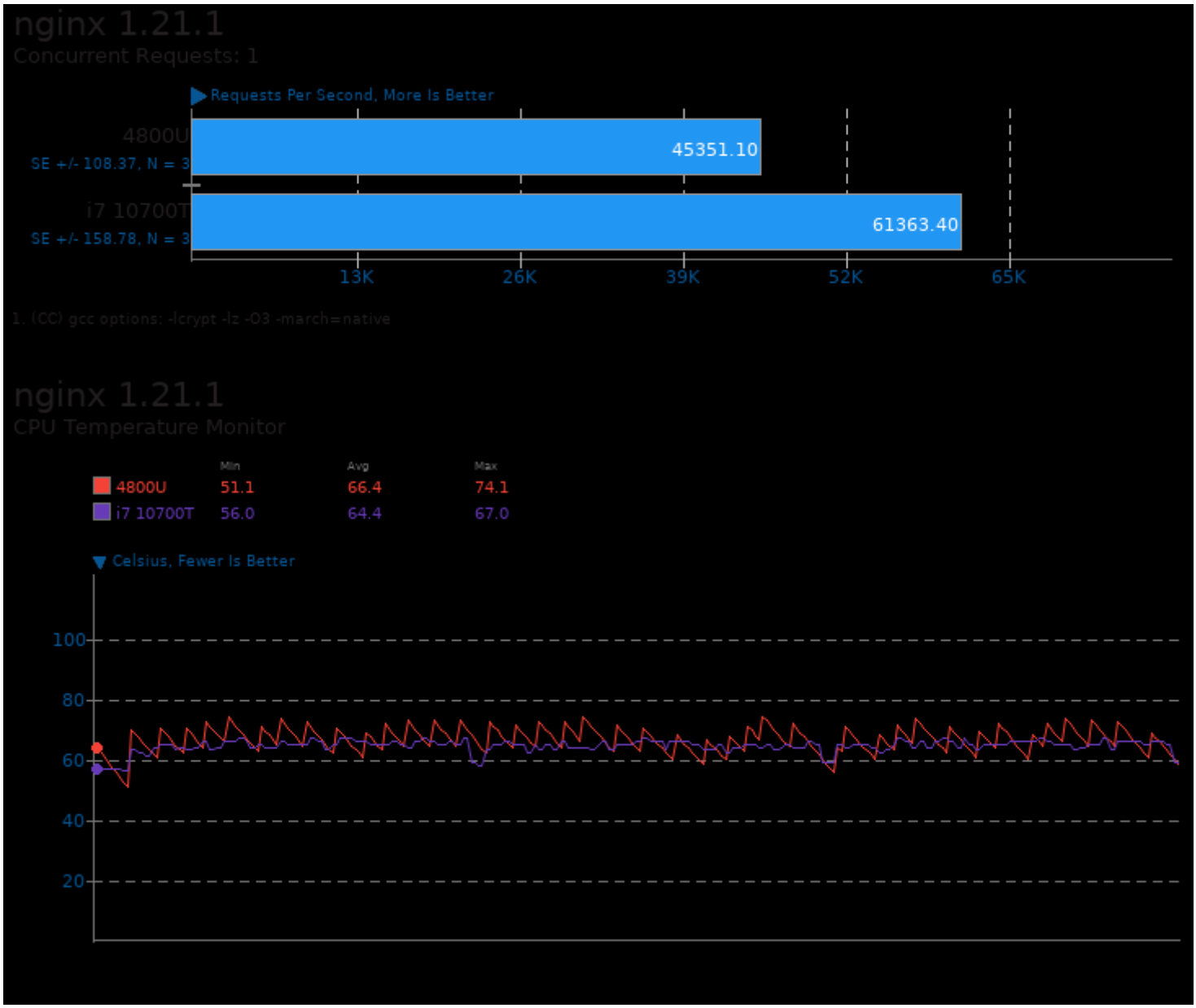
OnLogic Ryzen 4800U



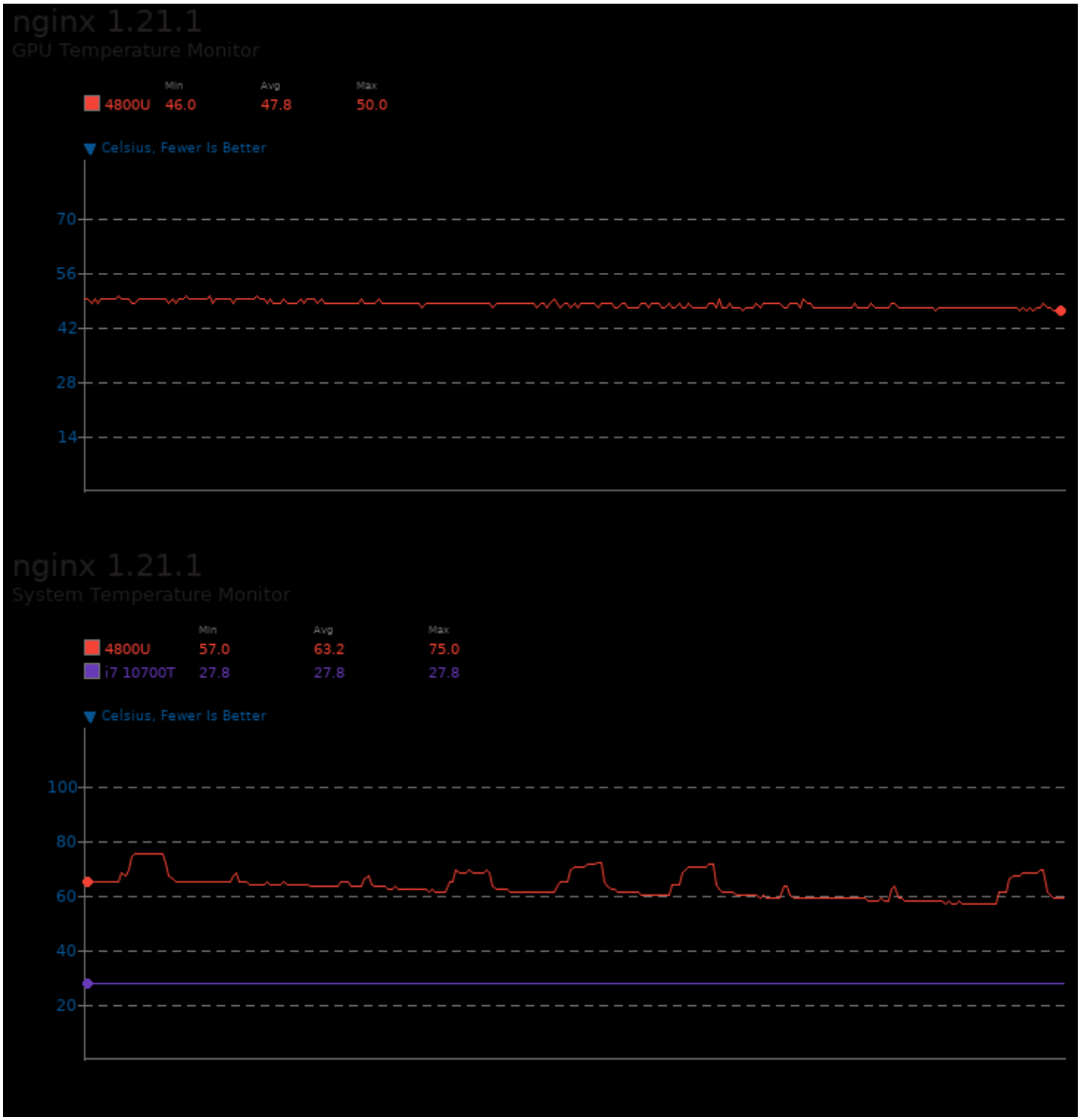

PyPerformance 1.0.0
Benchmark: pickle_pure_python
Milliseconds, Fewer Is Better
4800U
SE +/- 0.67, N = 3
411
i7 10700T
SE +/- 0.33, N = 3
463
100
200
300
400
500
PyPerformance 1.0.0
CPU Temperature Monitor
Min
Avg
Max
4800U 57.6 83.7 92.0
i7 10700T 57.0 66.7 73.0
Celsius, Fewer Is Better
100
80
60
40
20


PyPerformance 1.0.0
GPU Temperature Monitor
Min
Avg
Max
4800U 48.0 50.4 53.0
Celsius, Fewer Is Better
75
60
45
30
15
PyPerformance 1.0.0
System Temperature Monitor
Min
Avg
Max
4800U 65.0 65.4 70.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

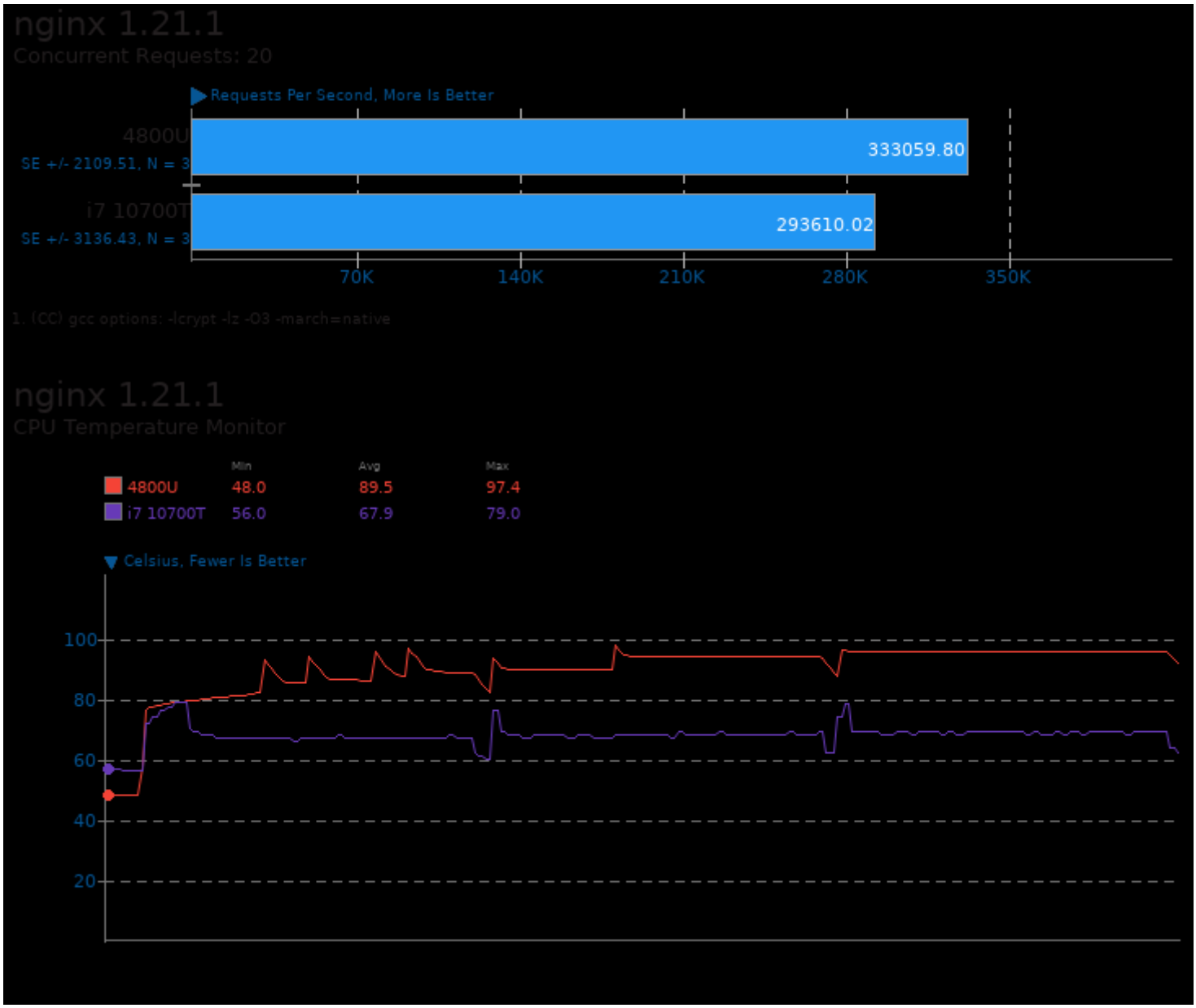
OnLogic Ryzen 4800U



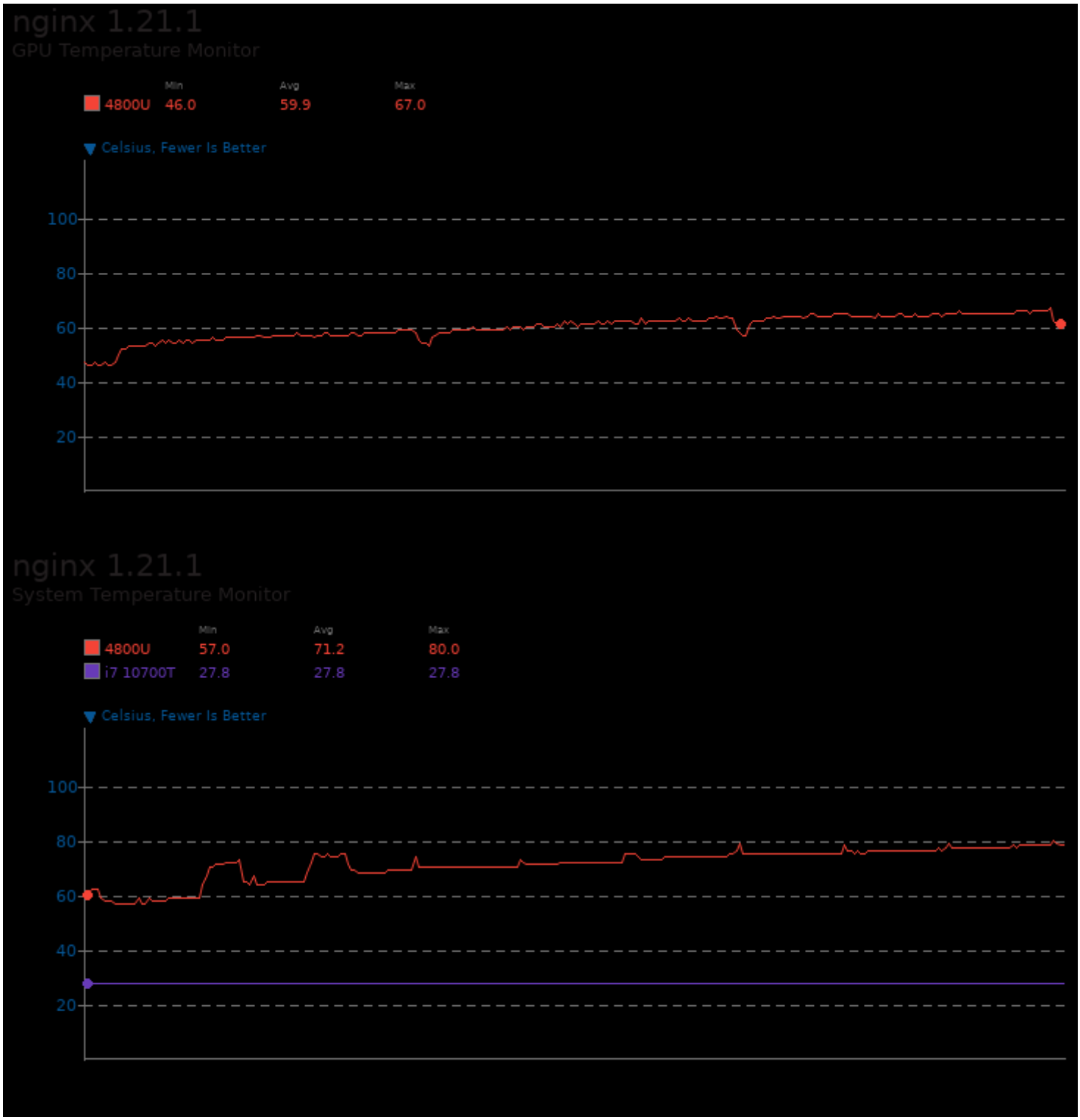
OnLogic Ryzen 4800U

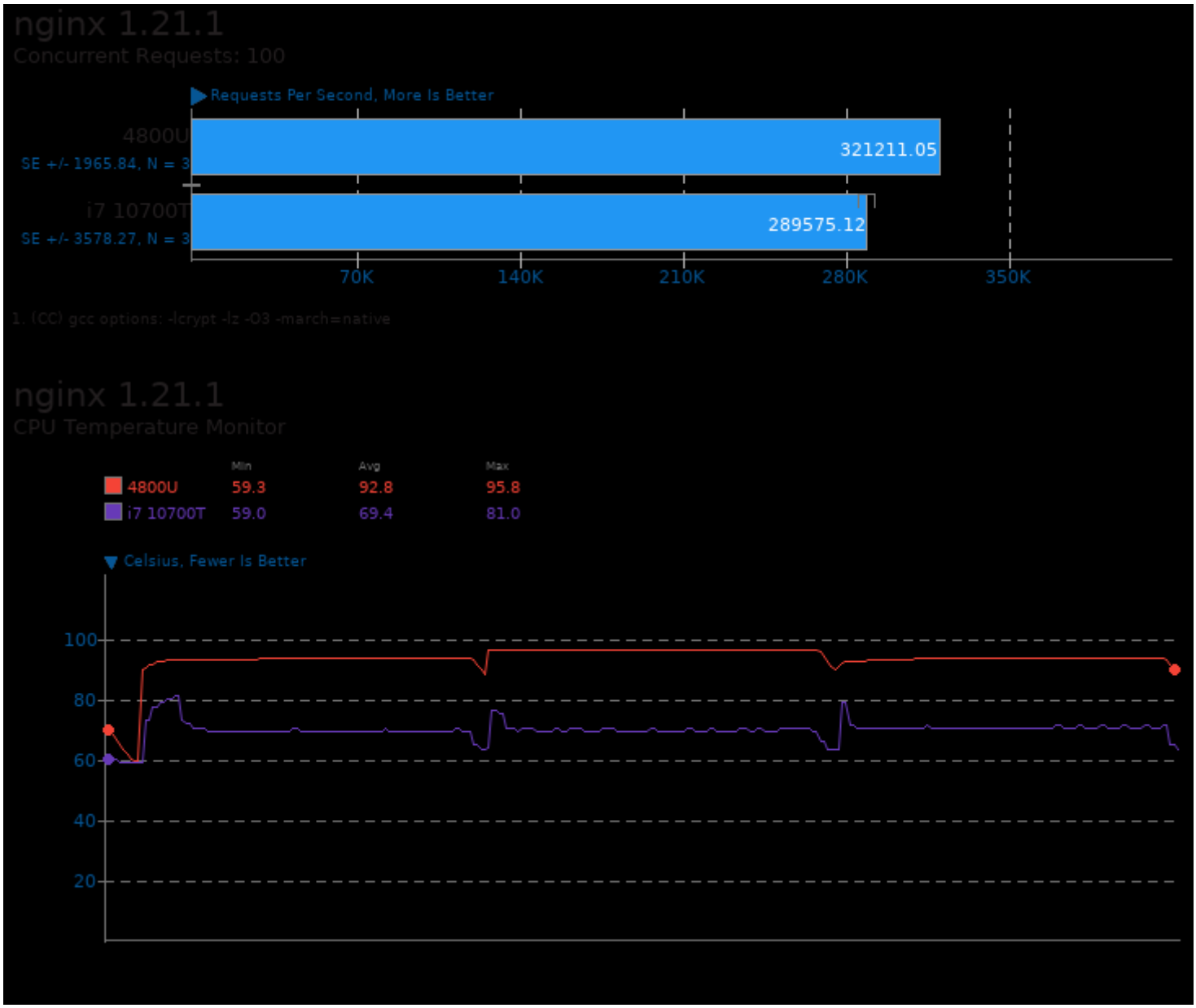


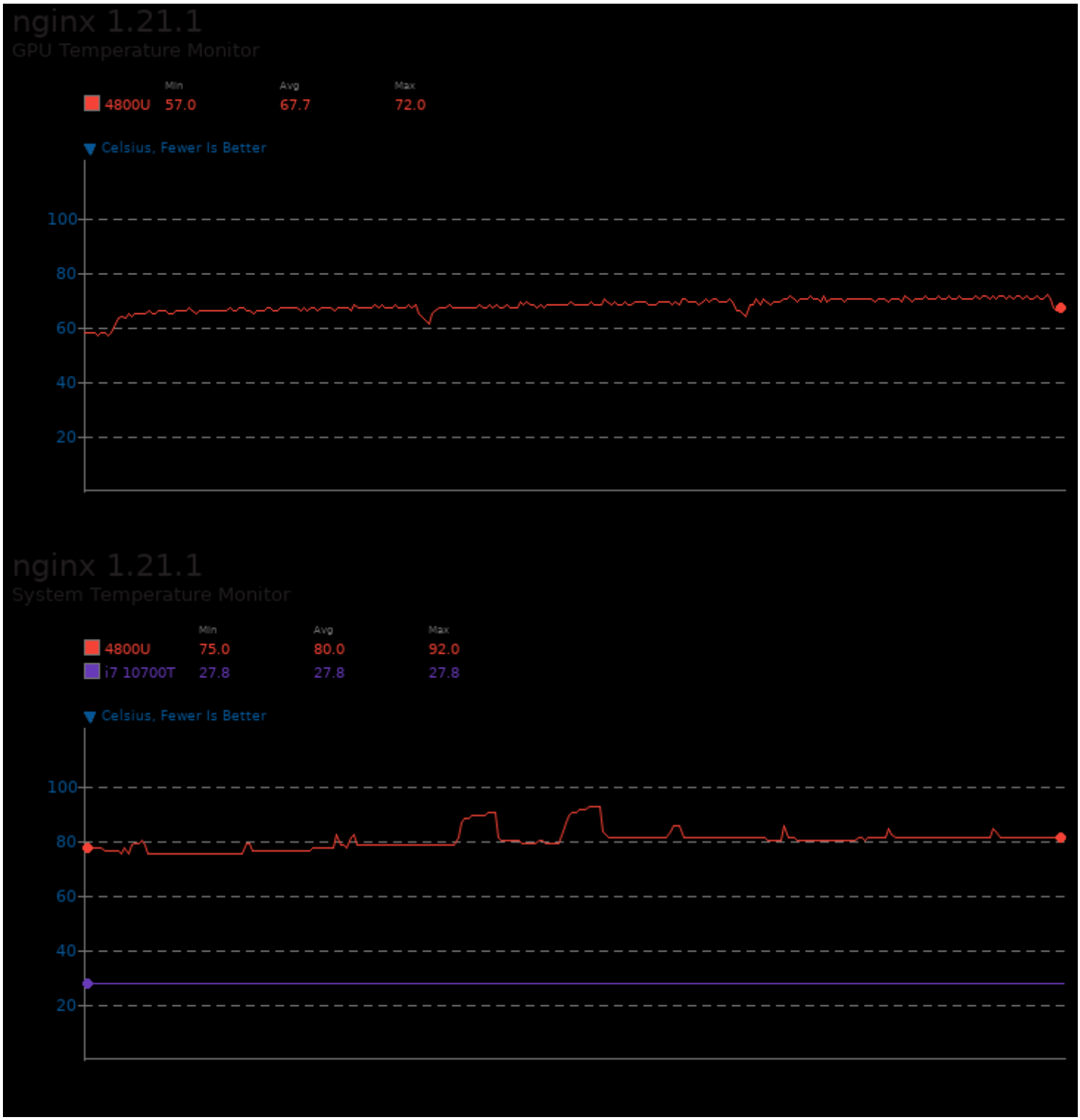
OnLogic Ryzen 4800U

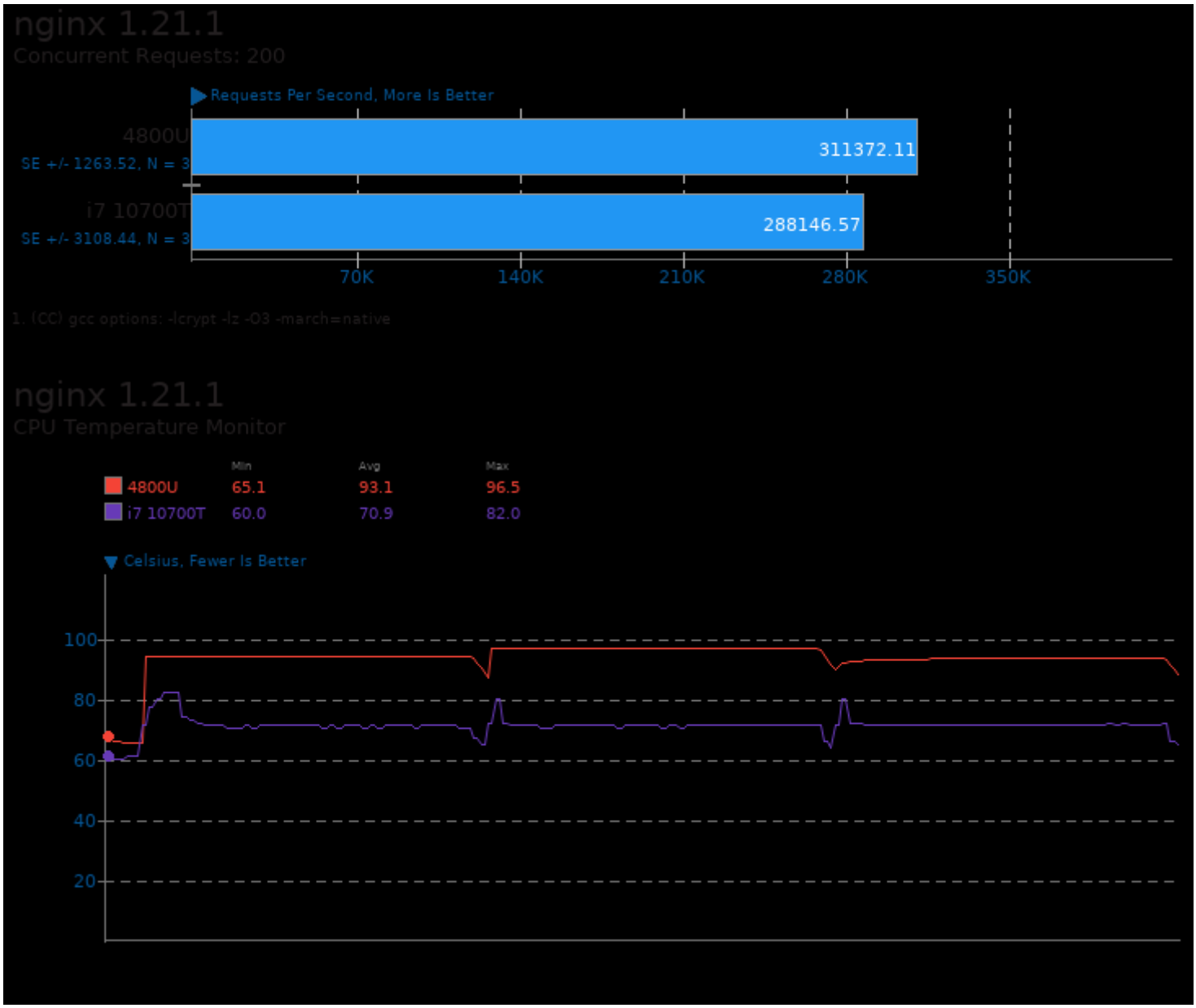


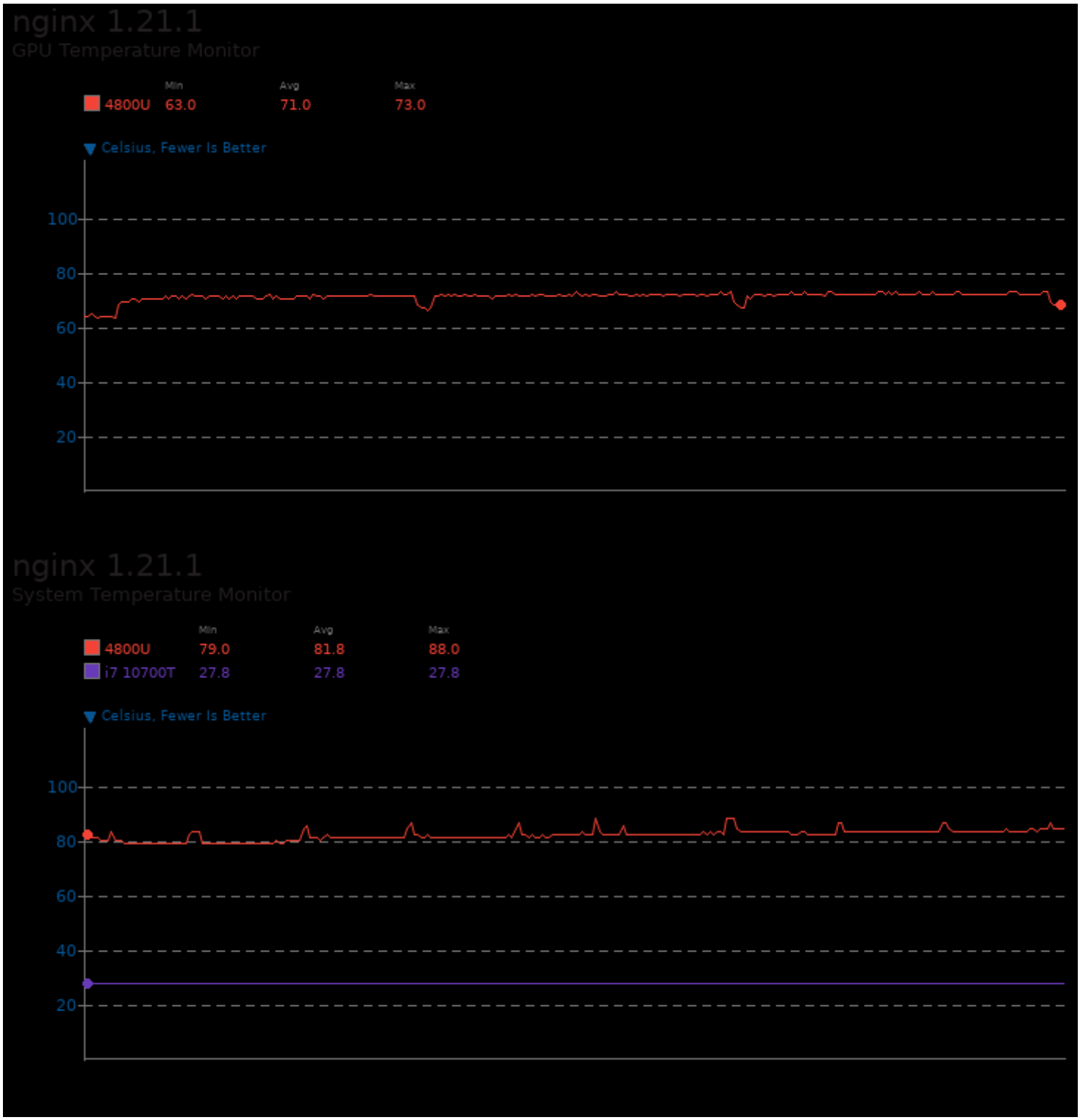
OnLogic Ryzen 4800U

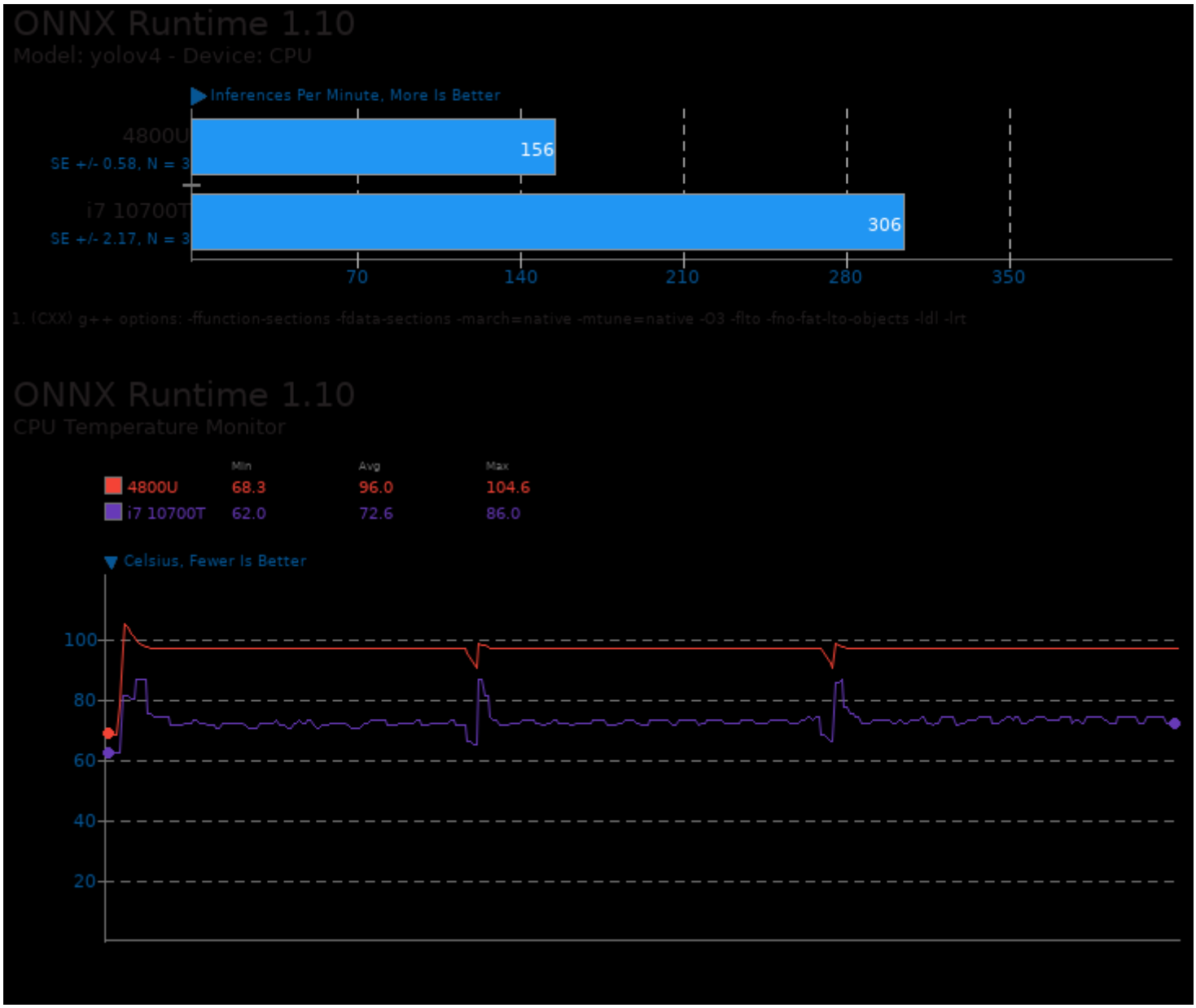



nginx 1.21.1
Concurrent Requests: 100
Requests Per Second, More Is Better
4800U
SE +/- 1965.84, N = 3
321211.05
i7 10700T
SE +/- 3578.27, N = 3
289575.12
70K
140K
210K
280K
350K
1. (CC) gcc options: -lcrypt -lz -O3 -march=native
nginx 1.21.1
CPU Temperature Monitor
Min
Avg
Max
4800U 59.3 92.8 95.8
i7 10700T 59.0 69.4 81.0
Celsius, Fewer Is Better
100
80
60
40
20

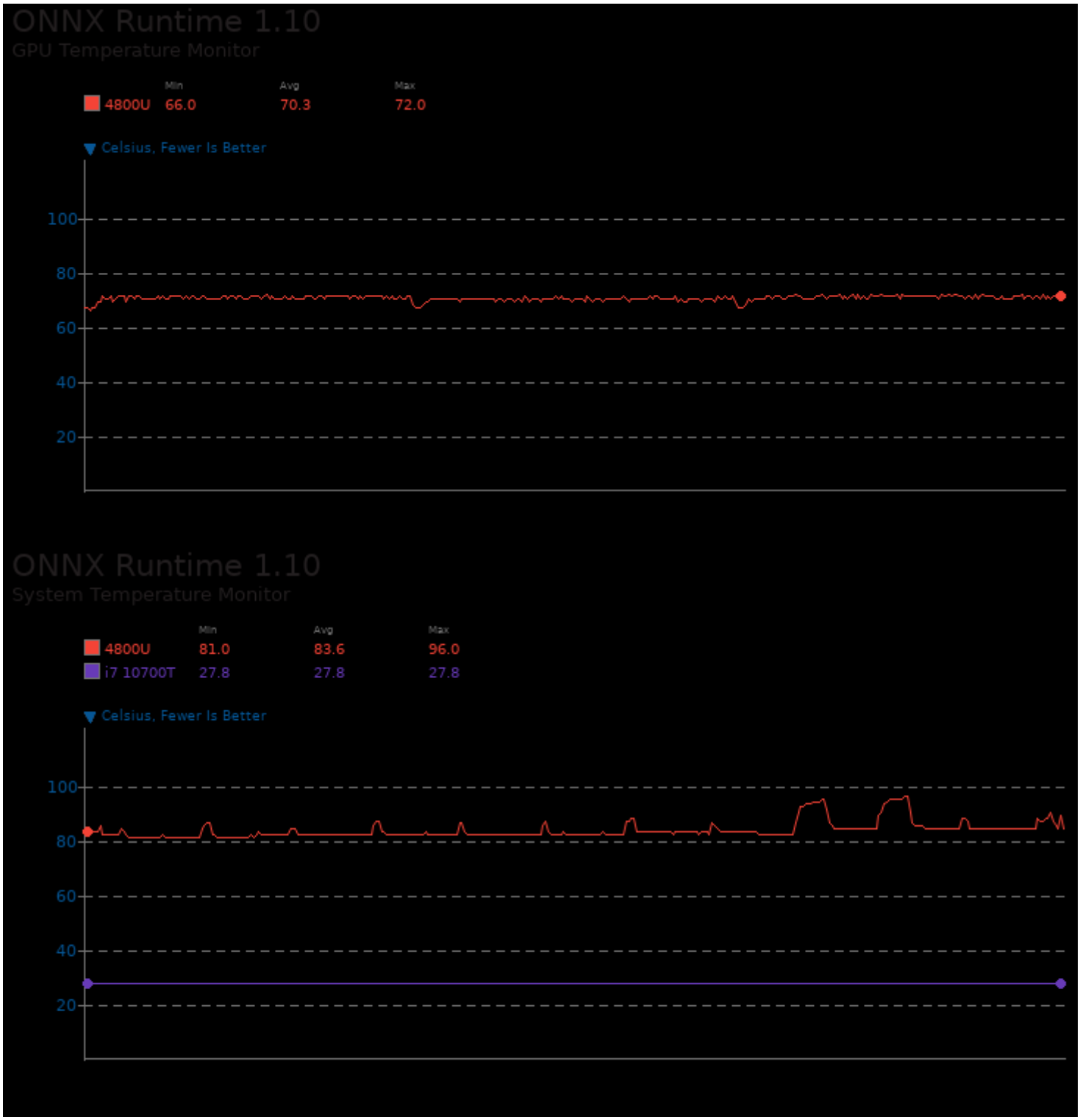

nginx 1.21.1
GPU Temperature Monitor
Min
Avg
Max
4800U 57.0 67.7 72.0
Celsius, Fewer Is Better
100
80
60
40
20
nginx 1.21.1
System Temperature Monitor
Min
Avg
Max
4800U 75.0 80.0 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

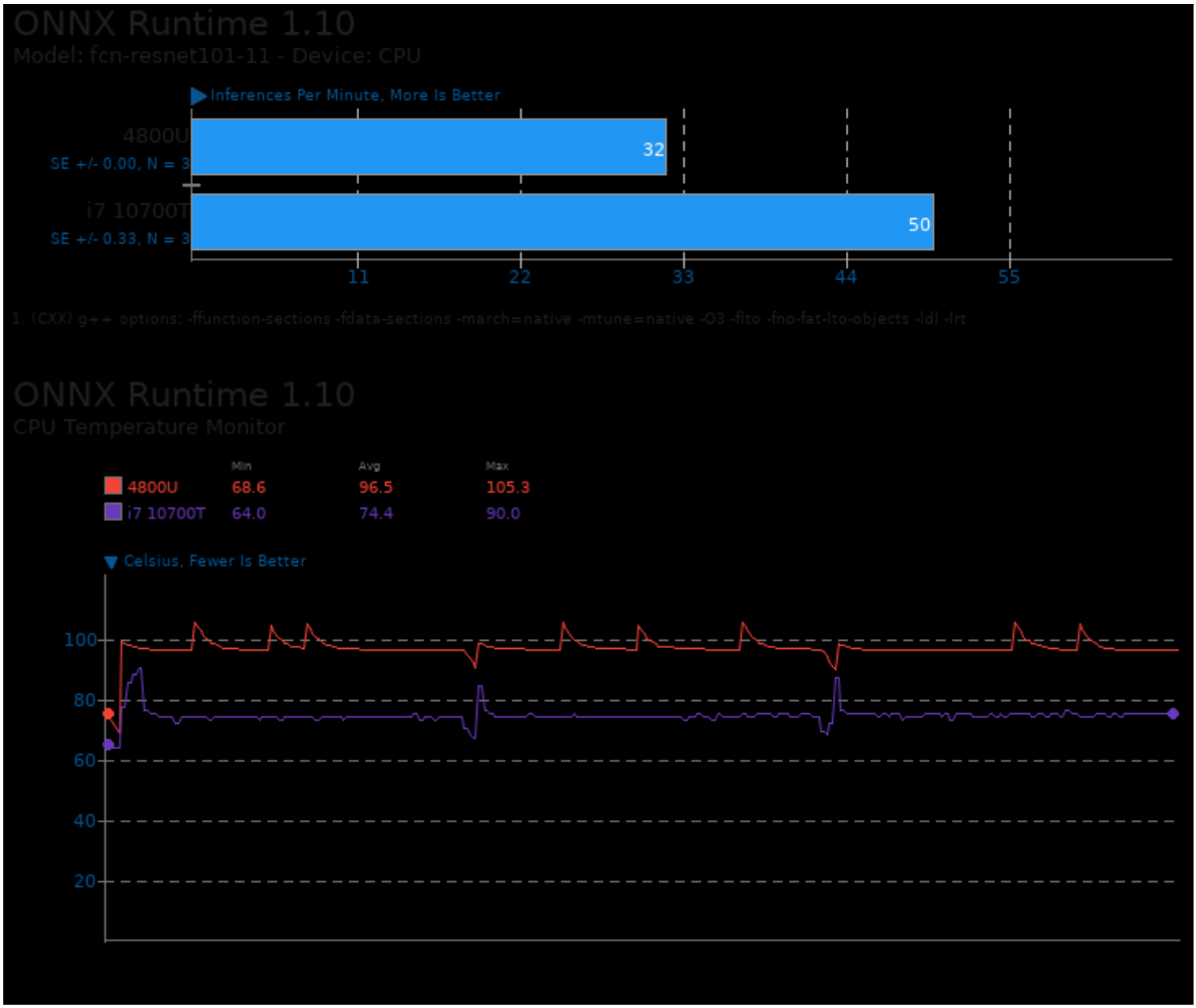

nginx 1.21.1
Concurrent Requests: 200
Requests Per Second, More Is Better
4800U
SE +/- 1263.52, N = 3
311372.11
i7 10700T
SE +/- 3108.44, N = 3
288146.57
70K
140K
210K
280K
350K
1. (CC) gcc options: -lcrypt -lz -O3 -march=native
nginx 1.21.1
CPU Temperature Monitor
Min
Avg
Max
4800U
65.1
93.1
96.5
i7 10700T
60.0
70.9
82.0
Celsius, Fewer Is Better
100
80
60
40
20

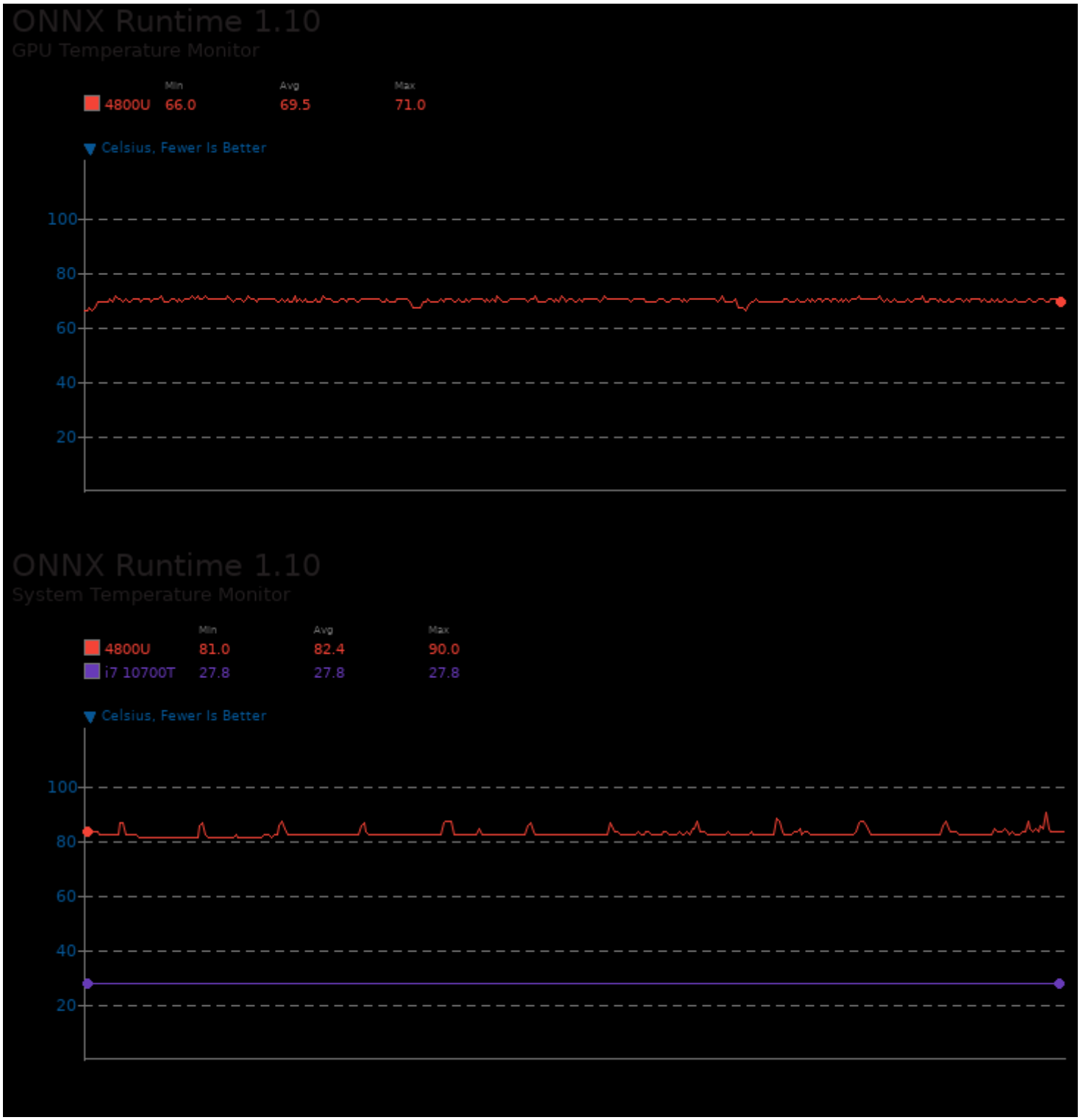

nginx 1.21.1
GPU Temperature Monitor
Min
Avg
Max
4800U 63.0 71.0 73.0
Celsius, Fewer Is Better
100
80
60
40
20
nginx 1.21.1
System Temperature Monitor
Min
Avg
Max
4800U 79.0 81.8 88.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


ONNX Runtime 1.10
Model: yolov4 - Device: CPU
Inferences Per Minute, More Is Better
4800U
SE +/- 0.58, N = 3
156
i7 10700T
SE +/- 2.17, N = 3
306
70
140
210
280
350
1. (CXX) g++ options: -ffunction-sections -fdata-sections -march=native -mtune=native -O3 -flto -fno-fat-lto-objects -ldl -lrt
ONNX Runtime 1.10
CPU Temperature Monitor
Min
Avg
Max
4800U
68.3
96.0
104.6
i7 10700T
62.0
72.6
86.0
Celsius, Fewer Is Better
100
80
60
40
20

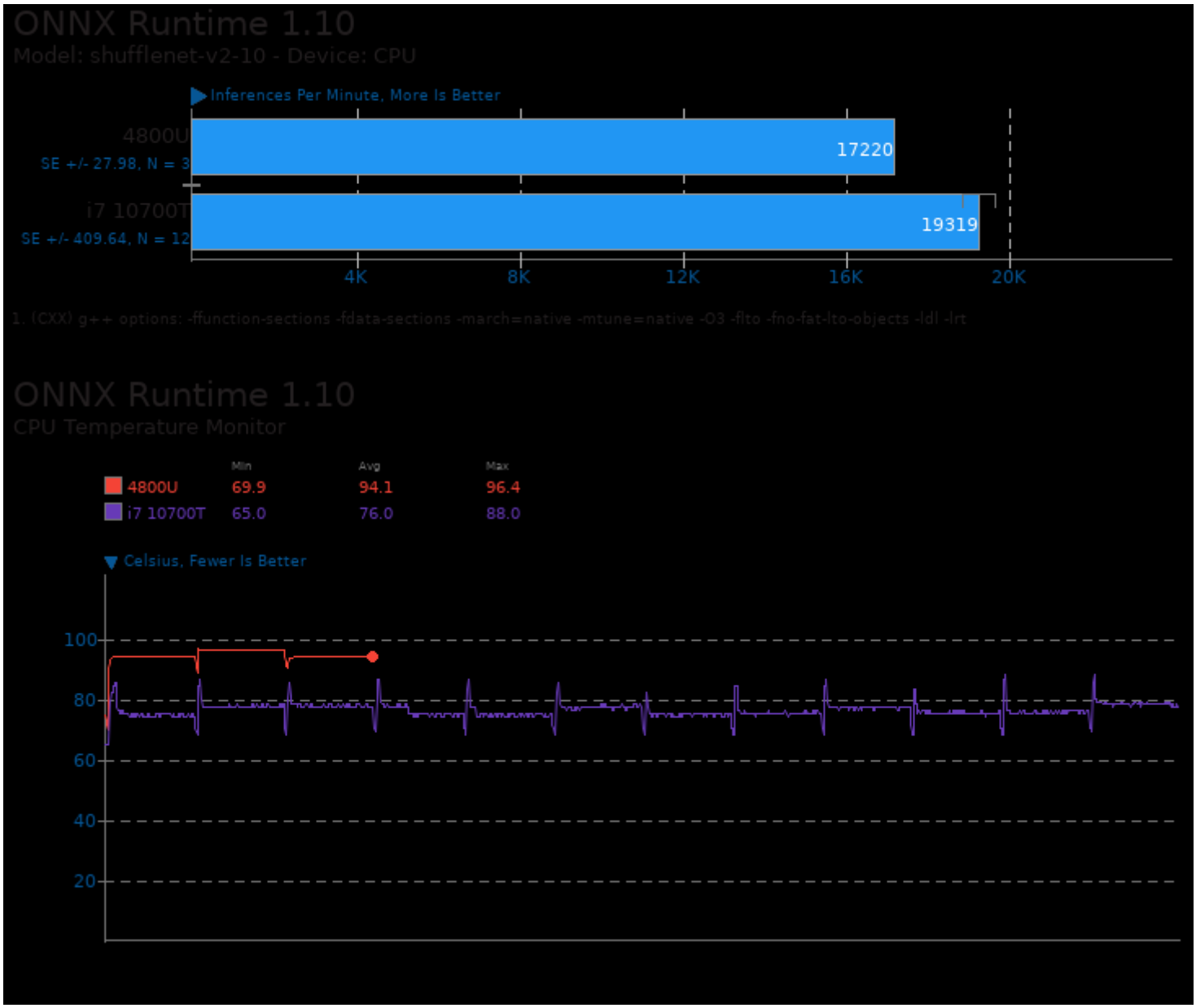
OnLogic Ryzen 4800U

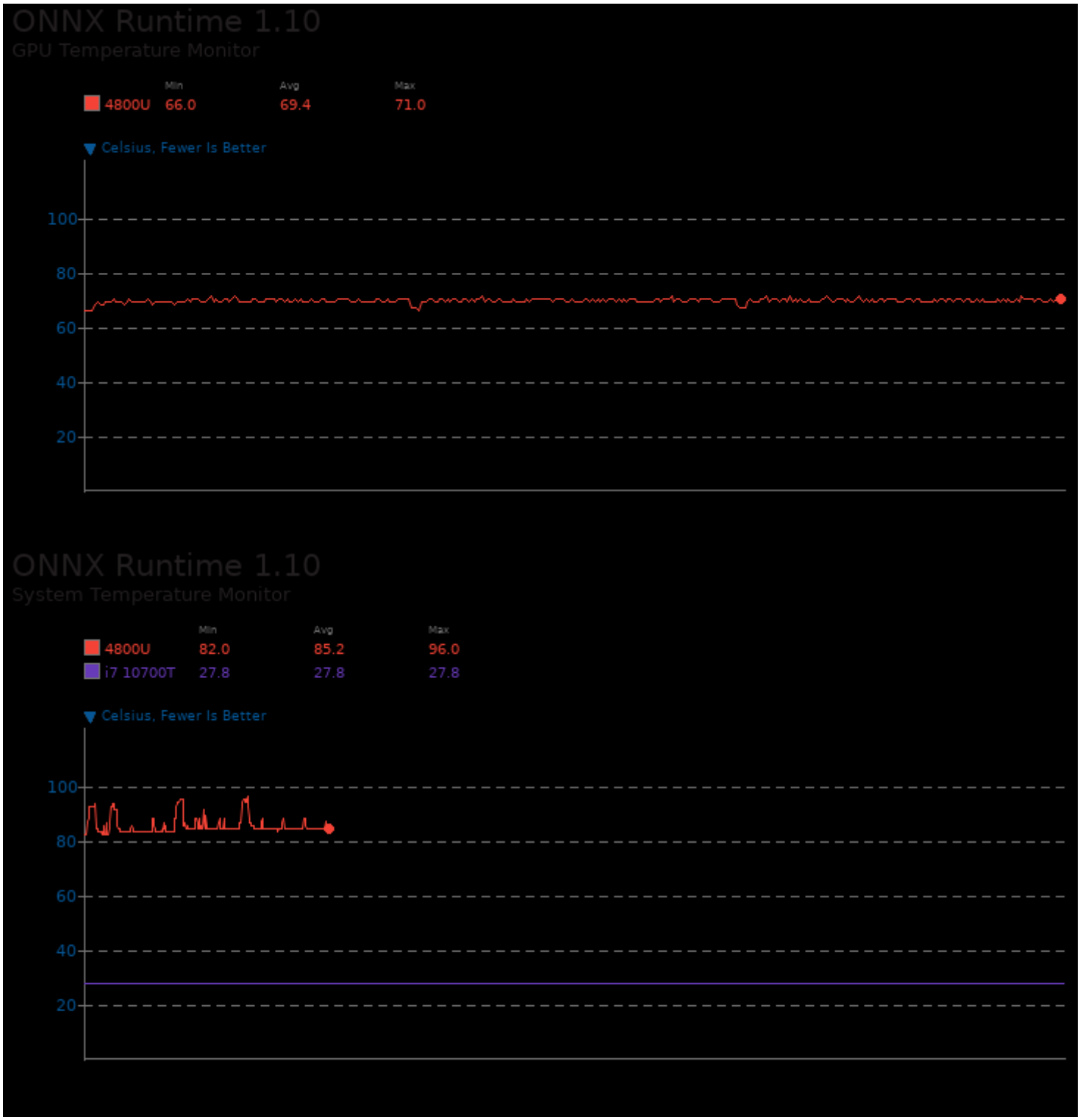


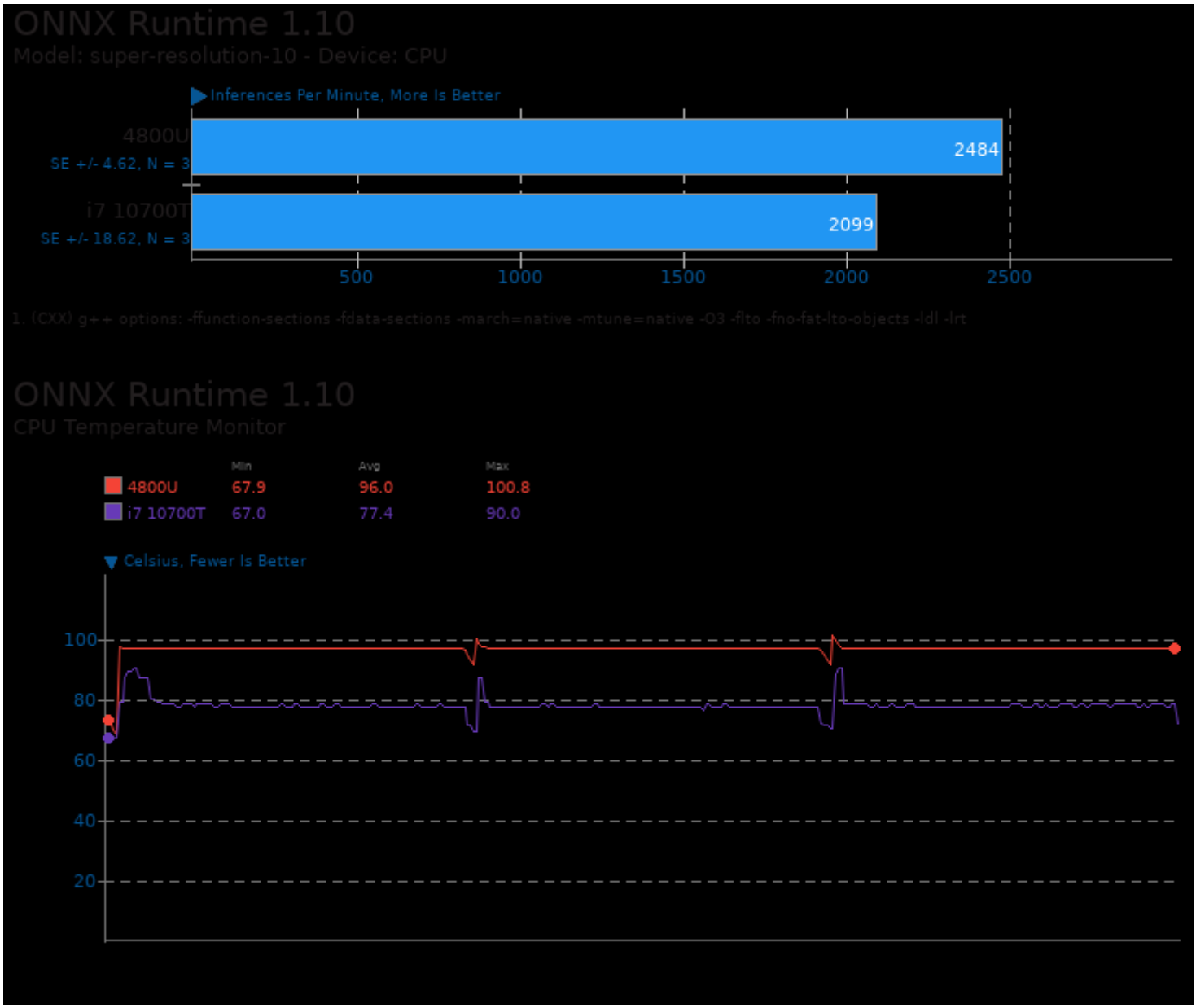

ONNX Runtime 1.10
Model: fcn-resnet101-11 - Device: CPU
Inferences Per Minute, More Is Better
4800U
SE +/- 0.00, N = 3
32
i7 10700T
SE +/- 0.33, N = 3
50
11
22
33
44
55
1. (CXX) g++ options: -ffunction-sections -fdata-sections -march=native -mtune=native -O3 -flto -fno-fat-lto-objects -ldl -lrt
ONNX Runtime 1.10
CPU Temperature Monitor
Min
Avg
Max
4800U
68.6
96.5
105.3
i7 10700T
64.0
74.4
90.0
Celsius, Fewer Is Better
100
80
60
40
20


ONNX Runtime 1.10
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 69.5 71.0
Celsius, Fewer Is Better
100
80
60
40
20
ONNX Runtime 1.10
System Temperature Monitor
Min
Avg
Max
4800U 81.0 82.4 90.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

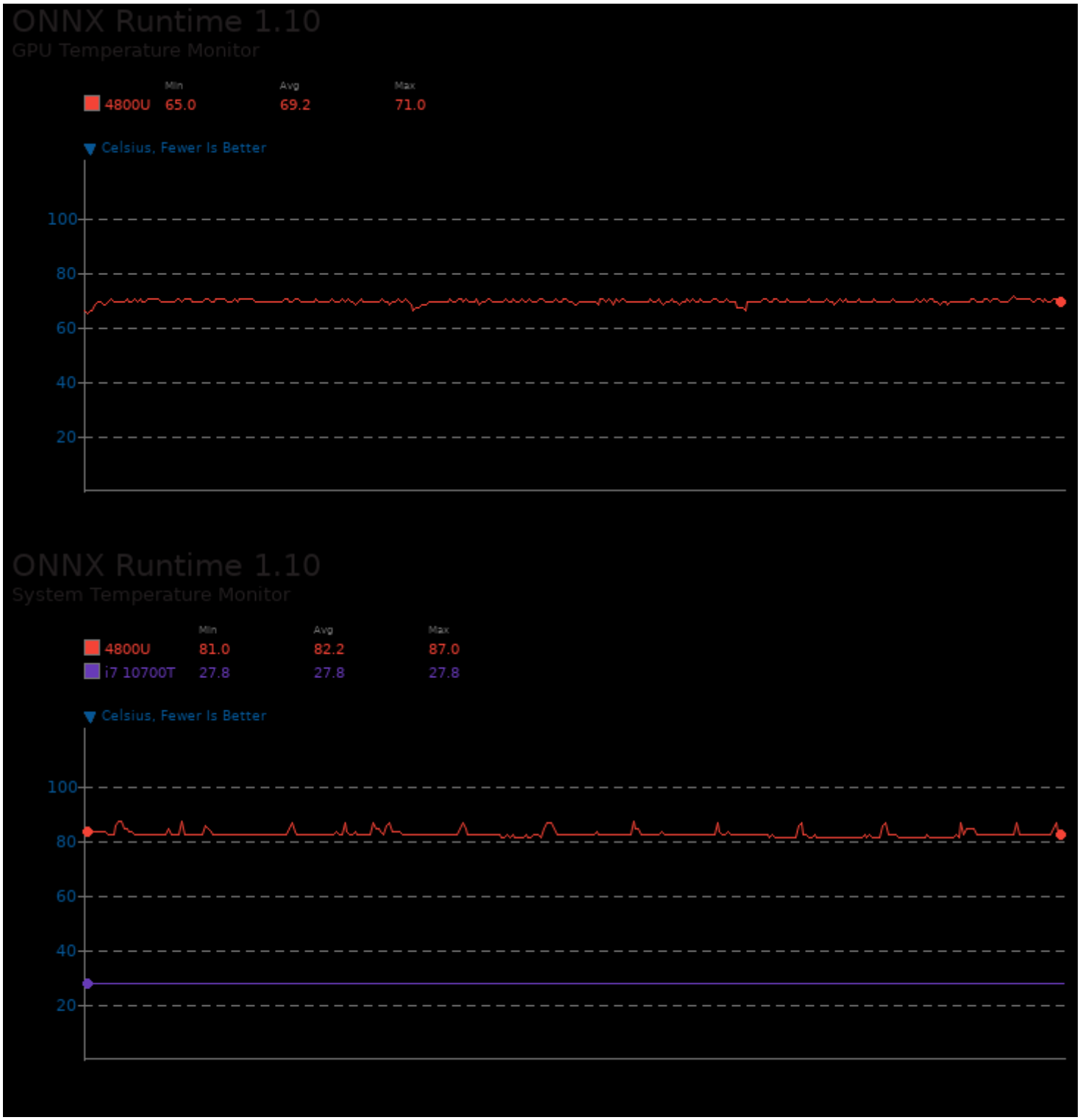
OnLogic Ryzen 4800U

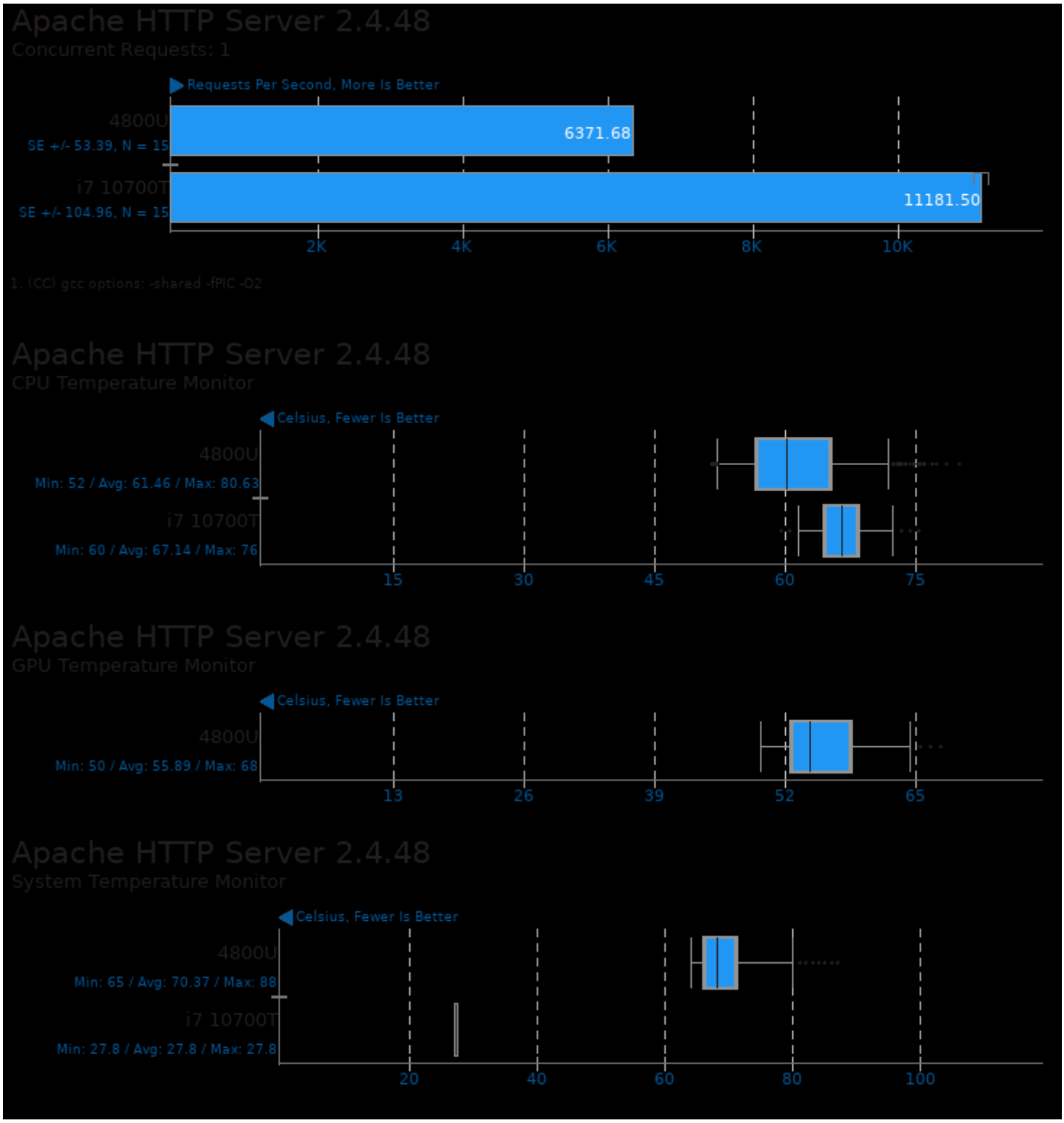


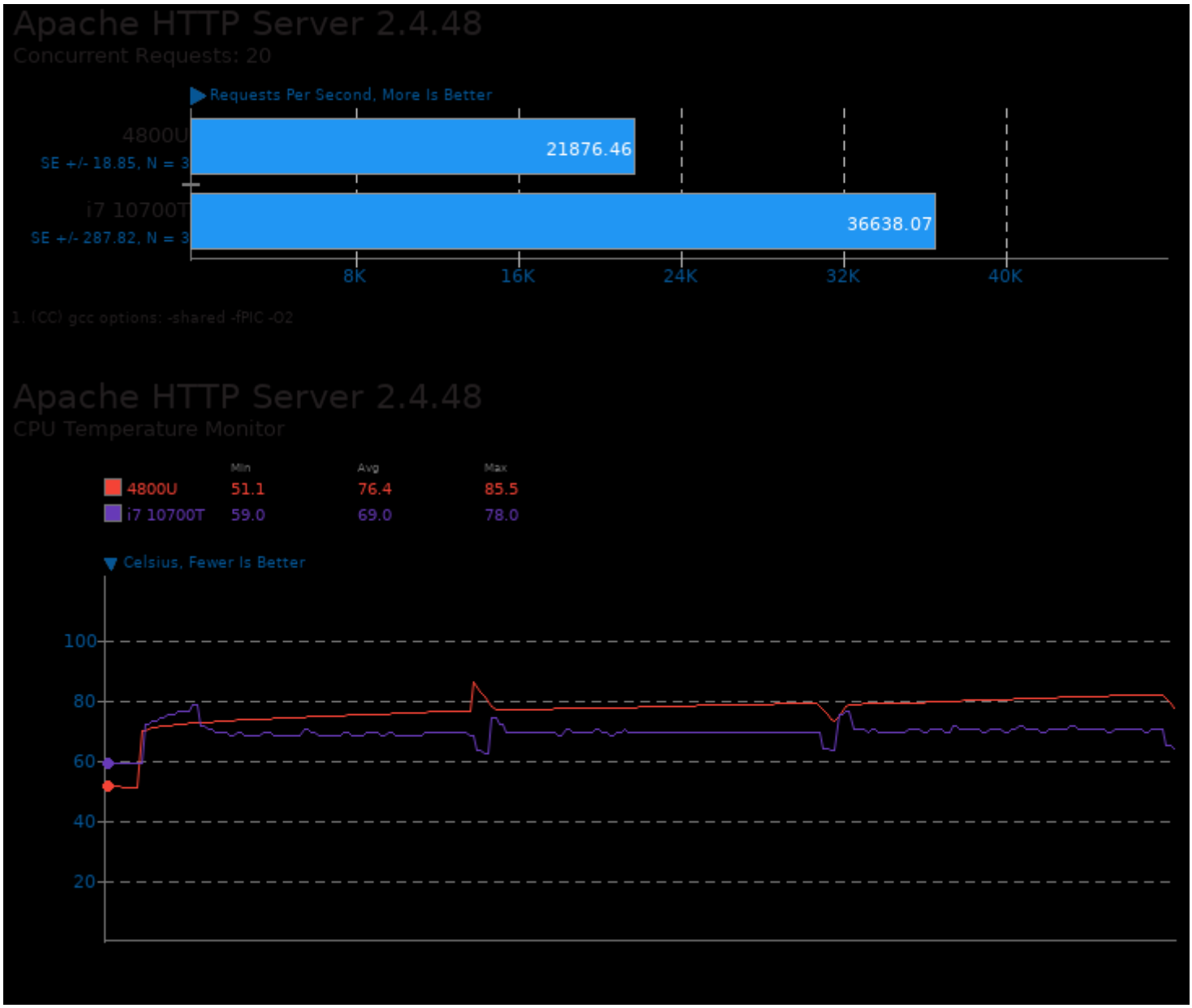

ONNX Runtime 1.10
GPU Temperature Monitor
Min
Avg
Max
4800U 66.0 69.4 71.0
Celsius, Fewer Is Better
100
80
60
40
20
ONNX Runtime 1.10
System Temperature Monitor
Min
Avg
Max
4800U 82.0 85.2 96.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

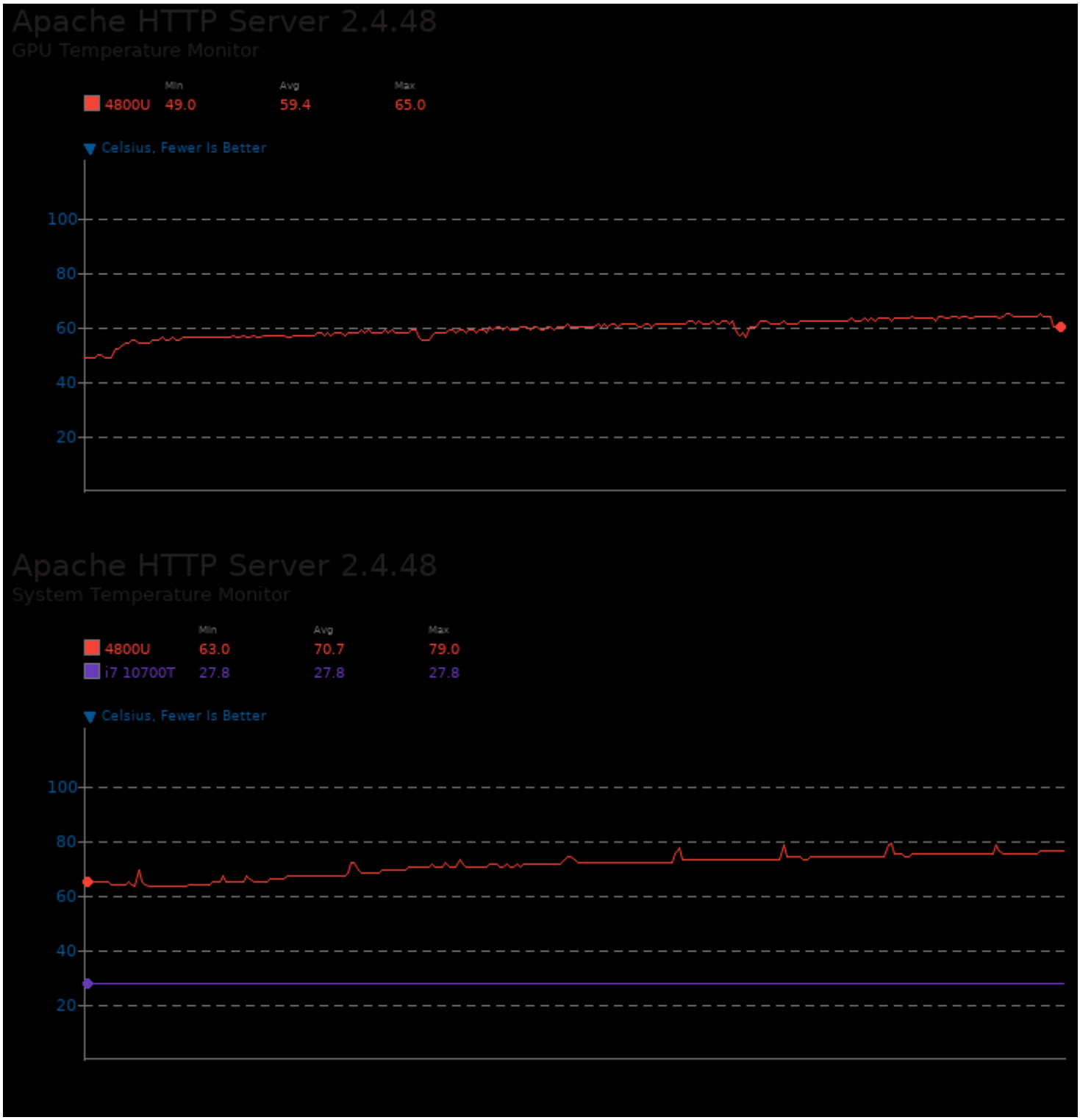

ONNX Runtime 1.10
Model: super-resolution-10 - Device: CPU
Inferences Per Minute, More Is Better
4800U
SE +/- 4.62, N = 3
2484
i7 10700T
SE +/- 18.62, N = 3
2099
500
1000
1500
2000
2500
1. (CXX) g++ options: -ffunction-sections -fdata-sections -march=native -mtune=native -O3 -flto -fno-fat-lto-objects -ldl -lrt
ONNX Runtime 1.10
CPU Temperature Monitor
Min
Avg
Max
4800U
67.9
96.0
100.8
i7 10700T
67.0
77.4
90.0
Celsius, Fewer Is Better
100
80
60
40
20

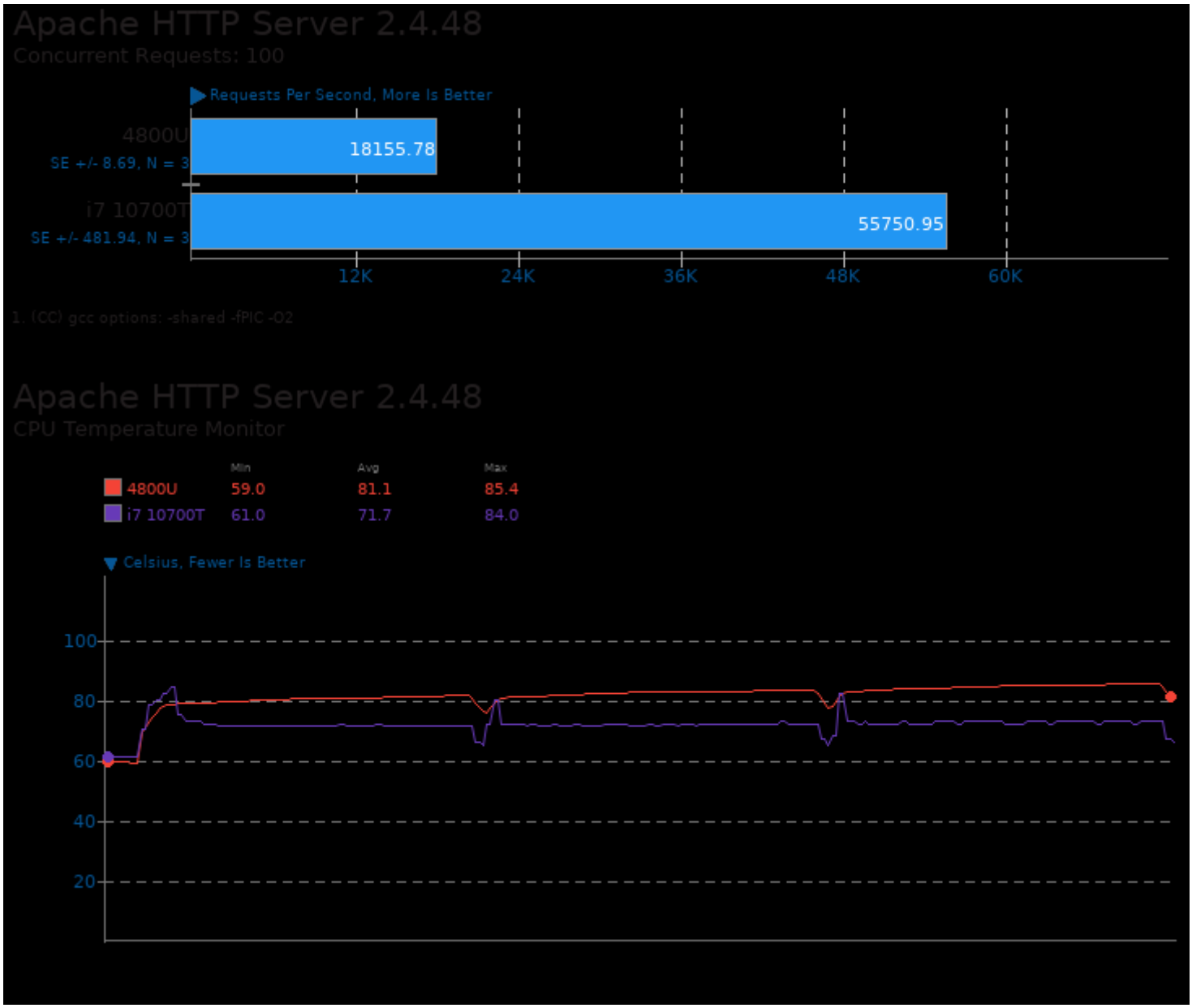
OnLogic Ryzen 4800U

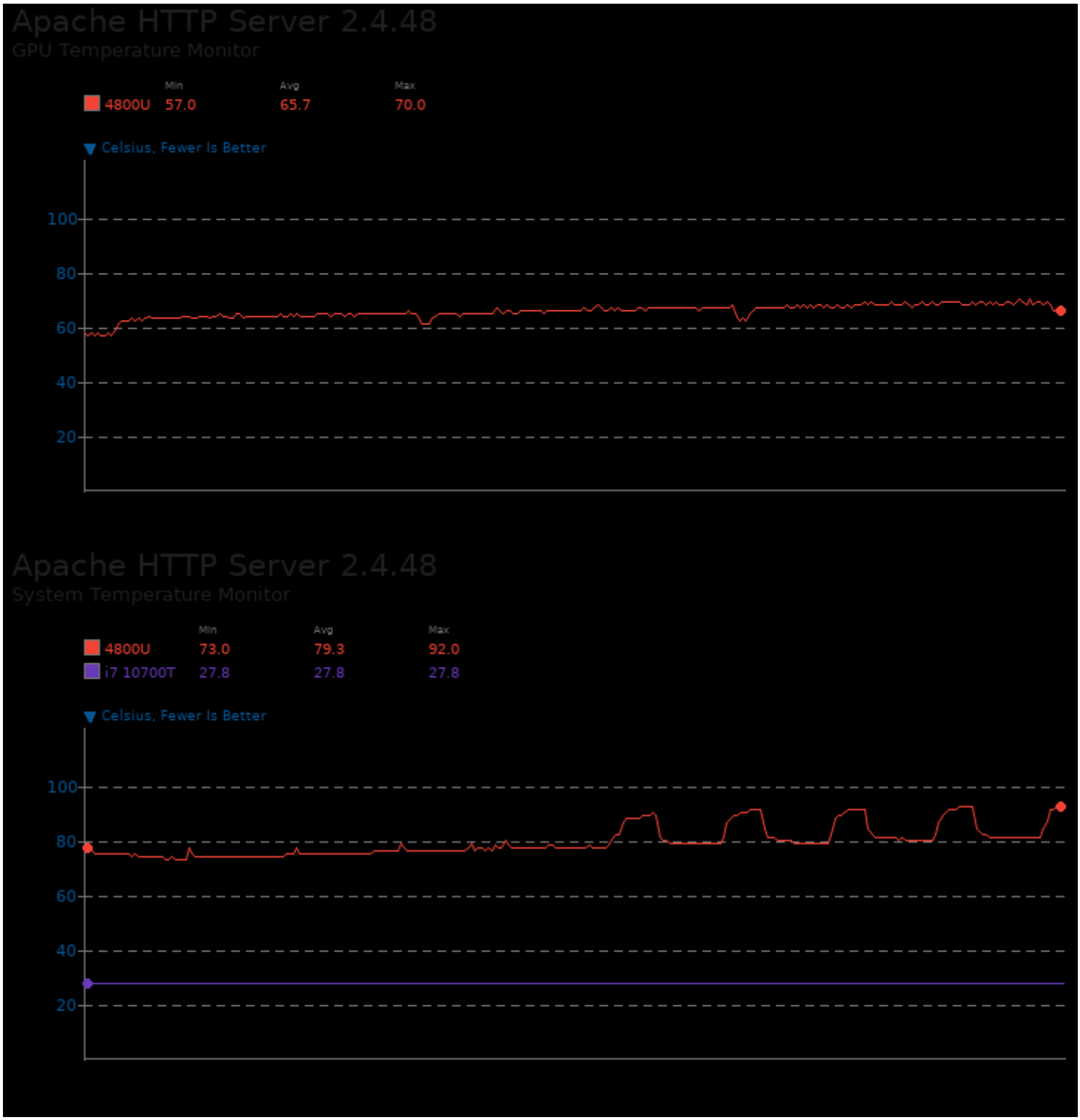


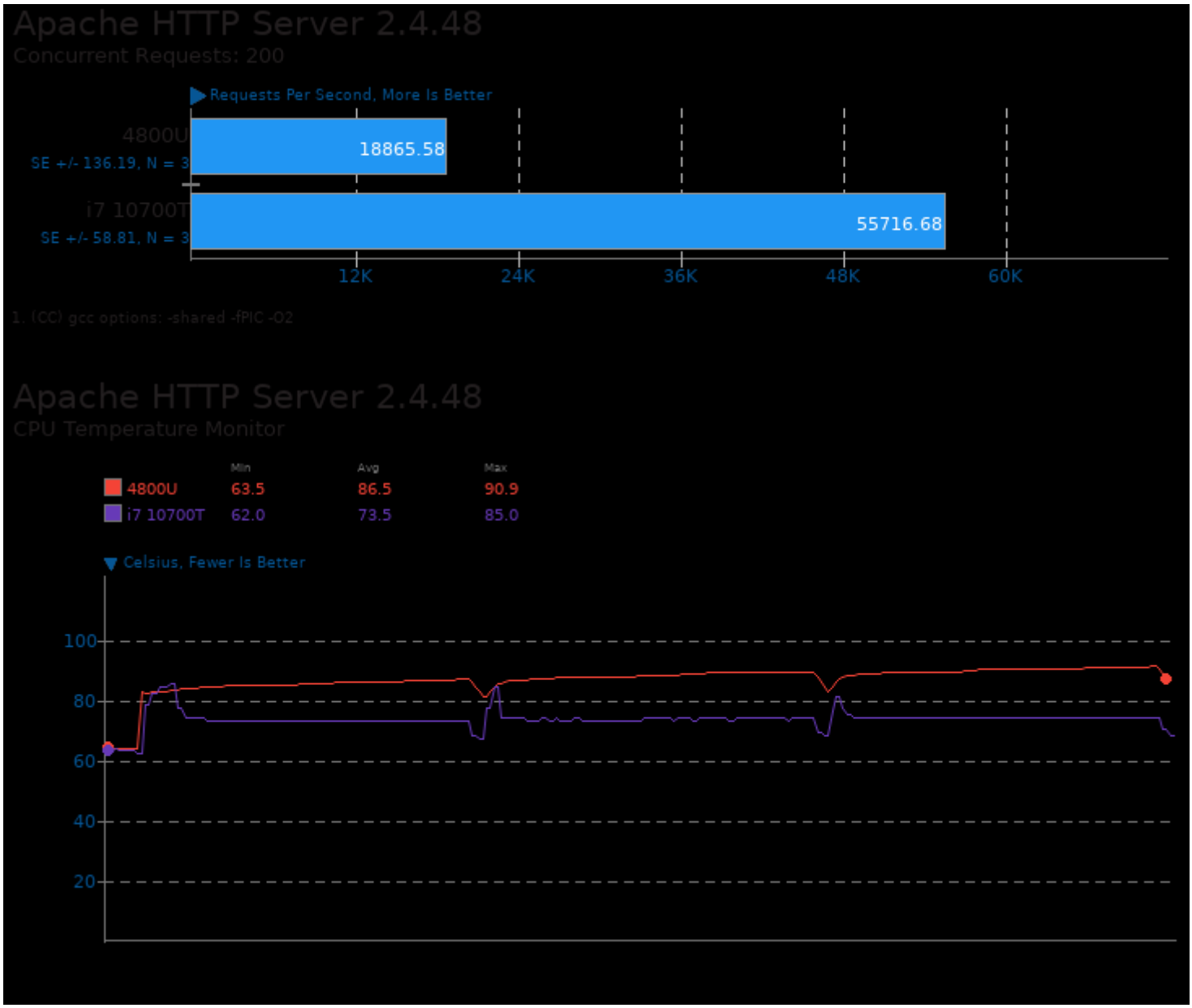

Apache HTTP Server 2.4.48
Concurrent Requests: 1
Requests Per Second, More Is Better
4800U
SE +/- 53.39, N = 15
6371.68
i7 10700T
SE +/- 104.96, N = 15
11181.50
2K
4K
6K
8K
10K
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
CPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 52 / Avg: 61.46 / Max: 80.63
i7 10700T
Min: 60 / Avg: 67.14 / Max: 76
15
30
45
60
75
Apache HTTP Server 2.4.48
GPU Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 50 / Avg: 55.89 / Max: 68
13
26
39
52
65
Apache HTTP Server 2.4.48
System Temperature Monitor
Celsius, Fewer Is Better
4800U
Min: 65 / Avg: 70.37 / Max: 88
i7 10700T
Min: 27.8 / Avg: 27.8 / Max: 27.8
20
40
60
80
100

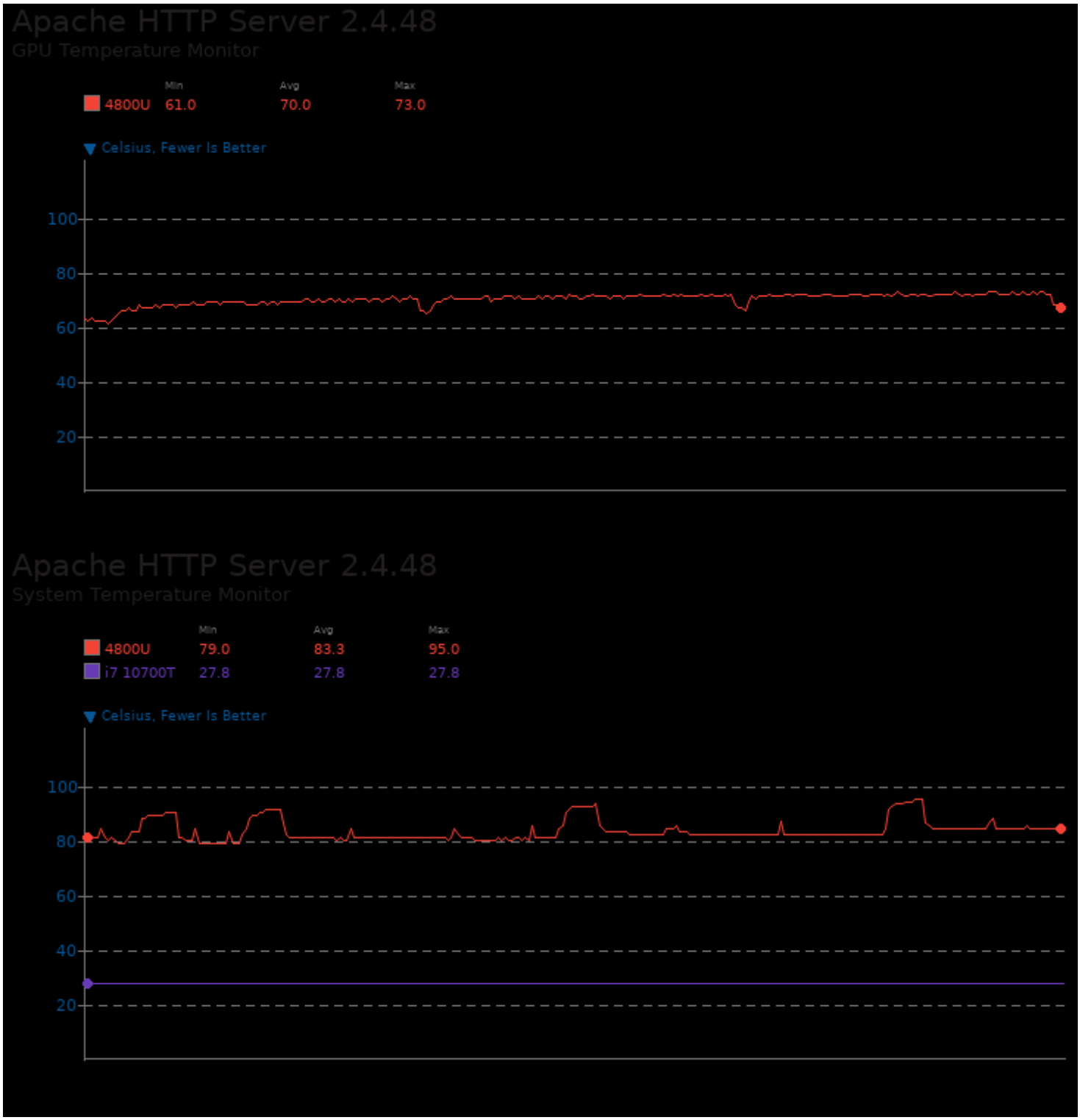

Apache HTTP Server 2.4.48
Concurrent Requests: 20
Requests Per Second, More Is Better
4800U
SE +/- 18.85, N = 3
21876.46
i7 10700T
SE +/- 287.82, N = 3
36638.07
8K
16K
24K
32K
40K
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
CPU Temperature Monitor
Min
Avg
Max
4800U 51.1 76.4 85.5
i7 10700T 59.0 69.0 78.0
Celsius, Fewer Is Better
100
80
60
40
20


Apache HTTP Server 2.4.48
GPU Temperature Monitor
Min
Avg
Max
4800U 49.0 59.4 65.0
Celsius, Fewer Is Better
100
80
60
40
20
Apache HTTP Server 2.4.48
System Temperature Monitor
Min
Avg
Max
4800U 63.0 70.7 79.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

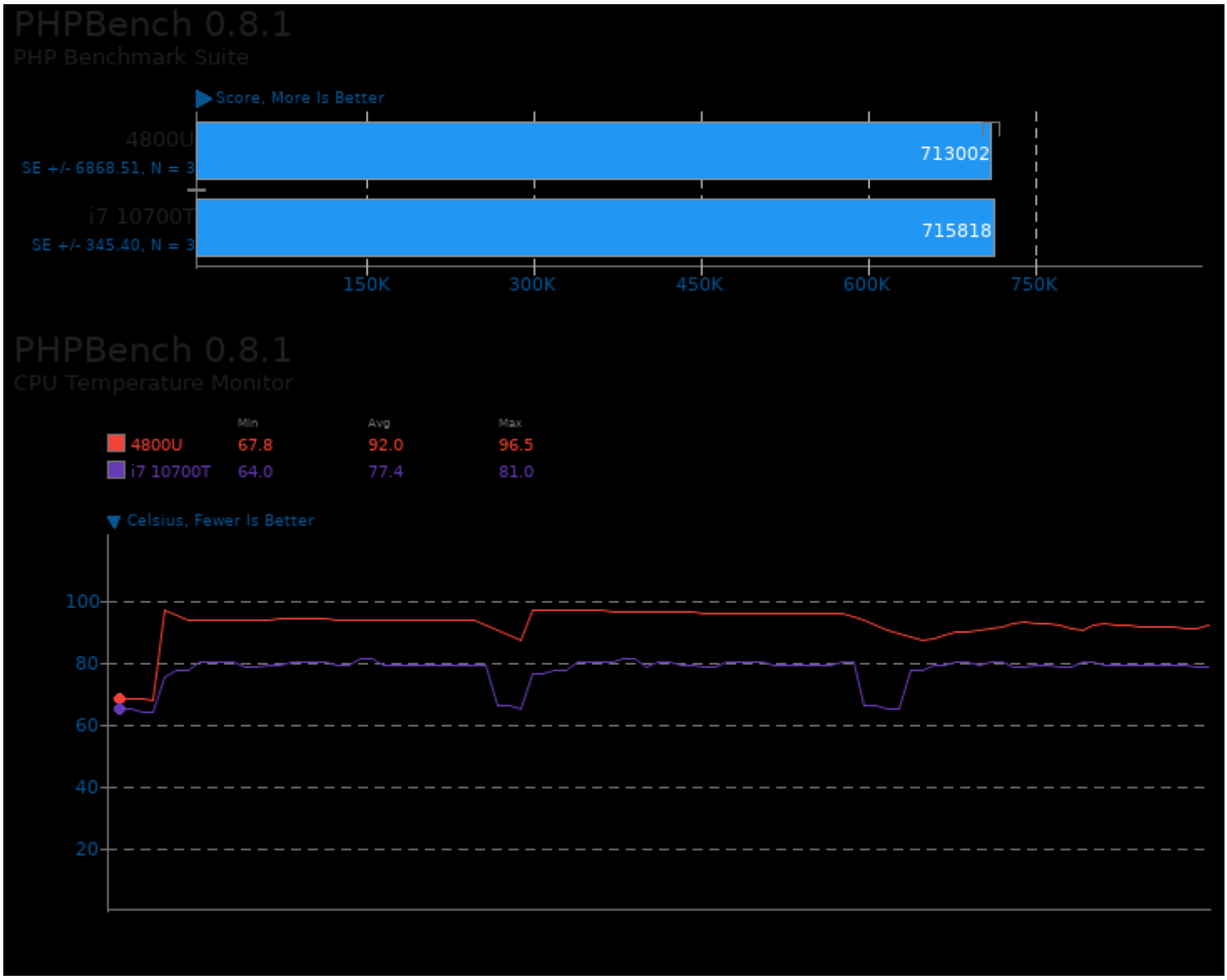

Apache HTTP Server 2.4.48
Concurrent Requests: 100
Requests Per Second, More Is Better
4800U
SE +/- 8.69, N = 3
18155.78
i7 10700T
SE +/- 481.94, N = 3
55750.95
12K
24K
36K
48K
60K
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
CPU Temperature Monitor
Min
Avg
Max
4800U 59.0 81.1 85.4
i7 10700T 61.0 71.7 84.0
Celsius, Fewer Is Better
100
80
60
40
20

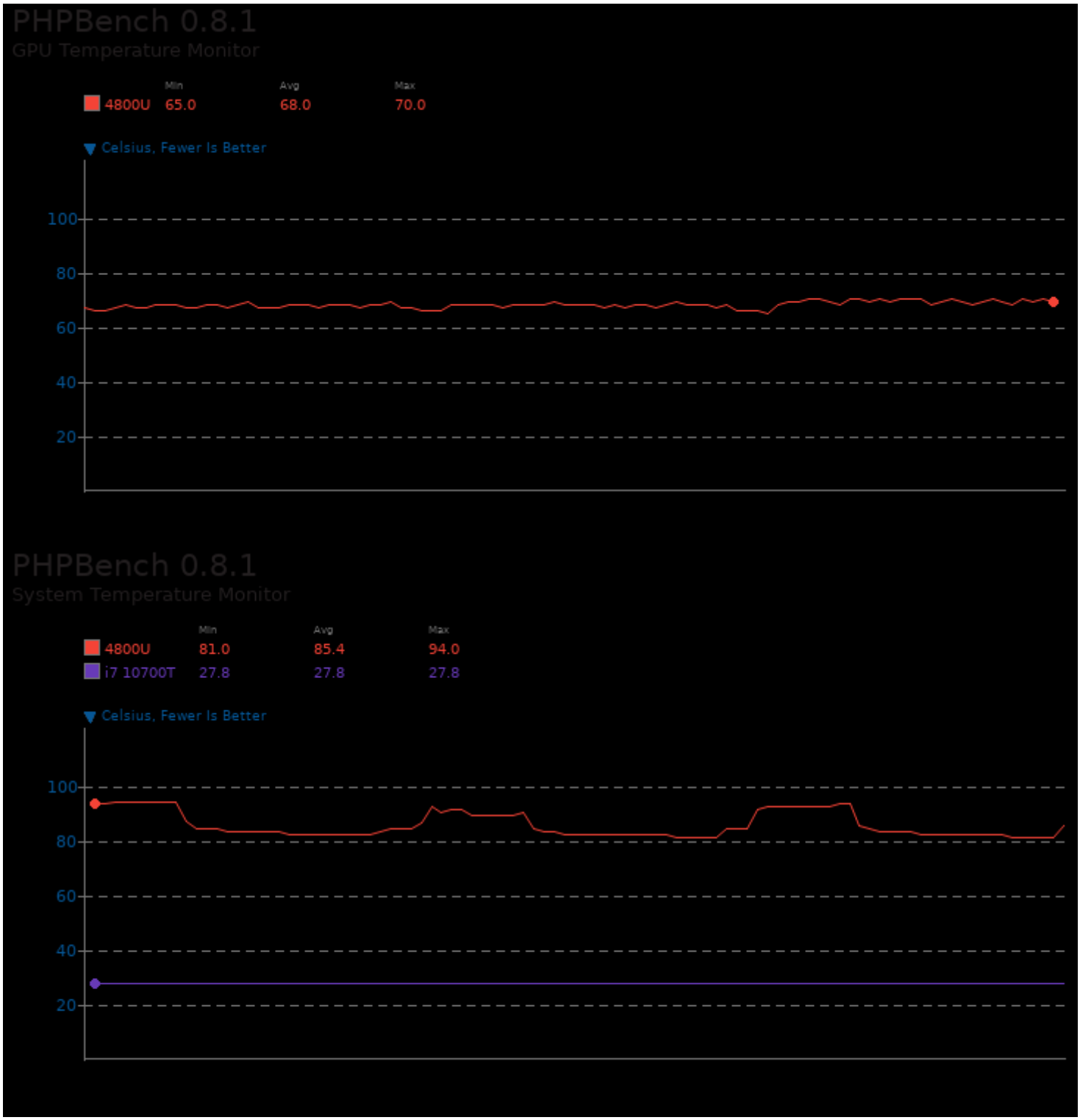

Apache HTTP Server 2.4.48
GPU Temperature Monitor
Min
Avg
Max
4800U 57.0 65.7 70.0
Celsius, Fewer Is Better
100
80
60
40
20
Apache HTTP Server 2.4.48
System Temperature Monitor
Min
Avg
Max
4800U 73.0 79.3 92.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


Apache HTTP Server 2.4.48
Concurrent Requests: 200
Requests Per Second, More Is Better
4800U
SE +/- 136.19, N = 3
18865.58
i7 10700T
SE +/- 58.81, N = 3
55716.68
12K
24K
36K
48K
60K
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
CPU Temperature Monitor
Min
Avg
Max
4800U 63.5 86.5 90.9
i7 10700T 62.0 73.5 85.0
Celsius, Fewer Is Better
100
80
60
40
20

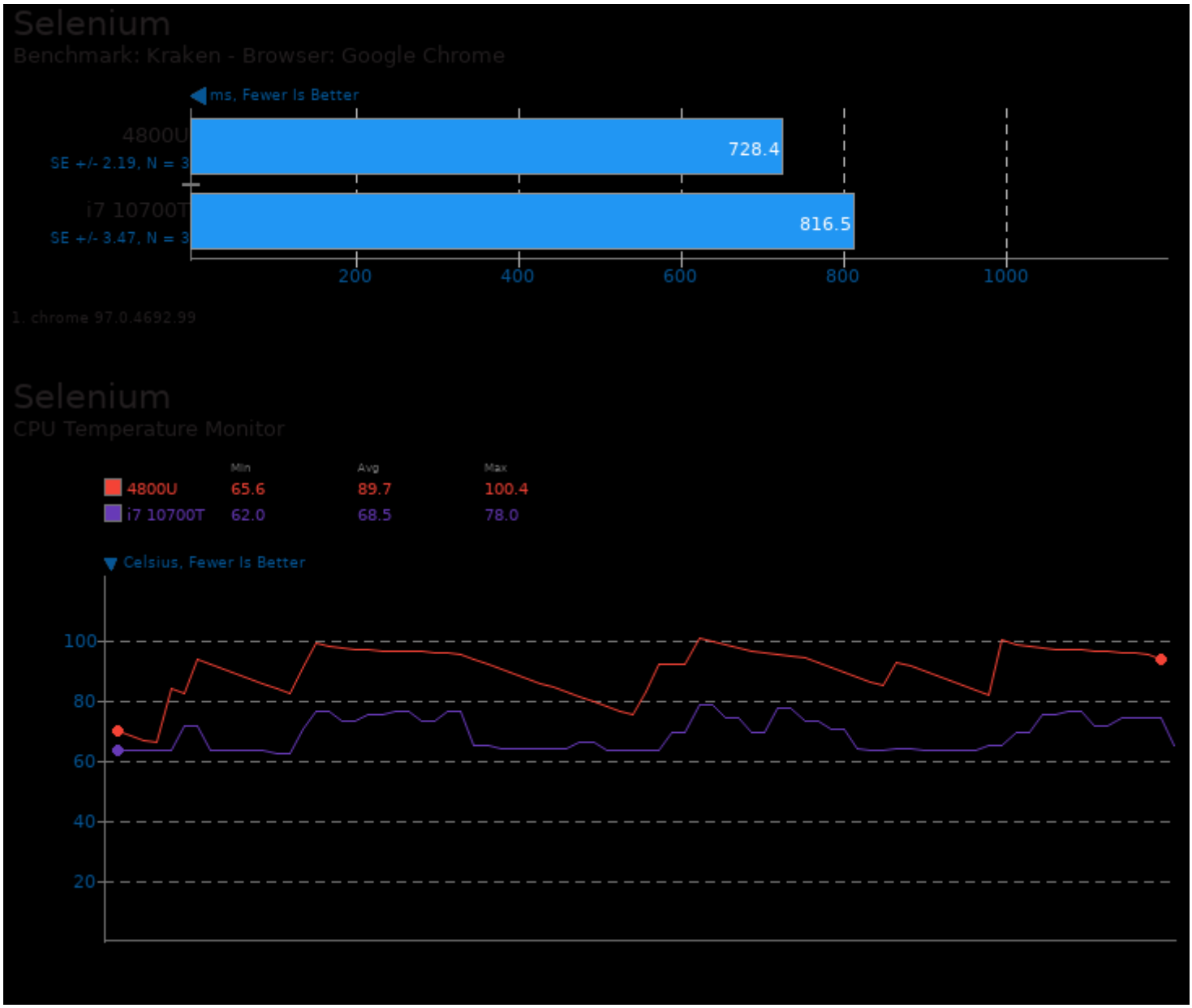

Apache HTTP Server 2.4.48
GPU Temperature Monitor
Min
Avg
Max
4800U 61.0 70.0 73.0
Celsius, Fewer Is Better
100
80
60
40
20
Apache HTTP Server 2.4.48
System Temperature Monitor
Min
Avg
Max
4800U 79.0 83.3 95.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

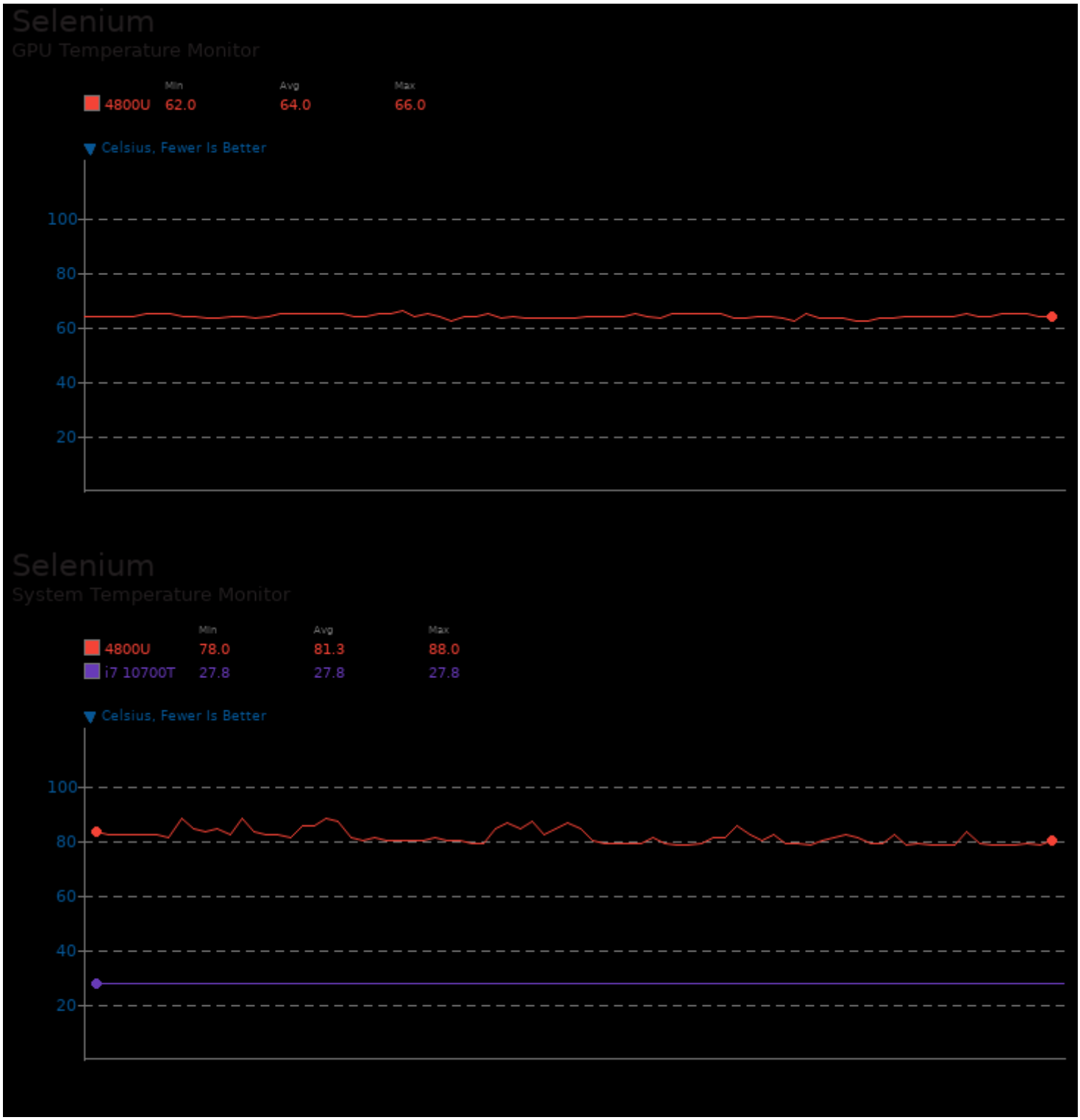


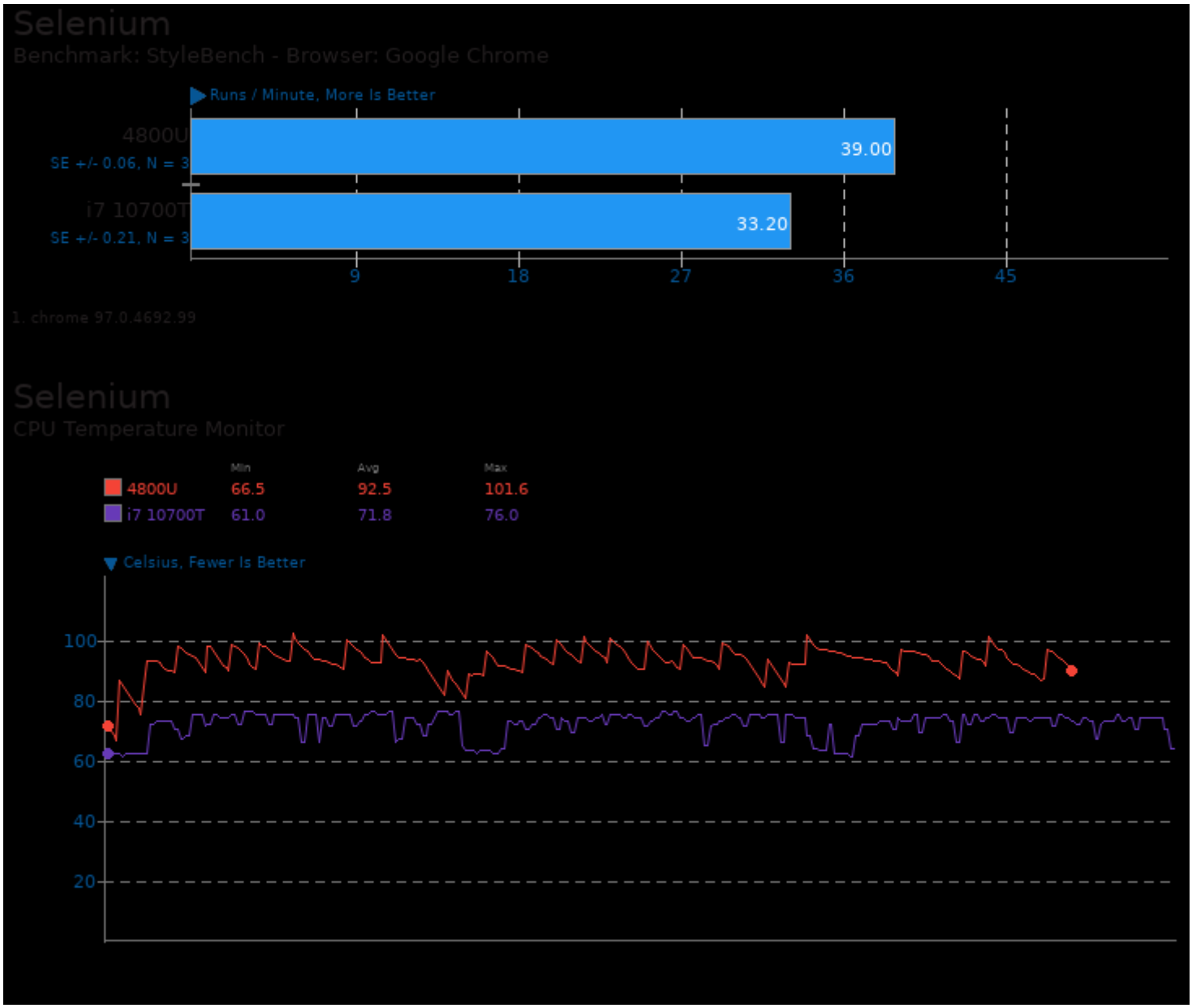

PHPBench 0.8.1
GPU Temperature Monitor
Min
Avg
Max
4800U 65.0 68.0 70.0
Celsius, Fewer Is Better
100
80
60
40
20
PHPBench 0.8.1
System Temperature Monitor
Min
Avg
Max
4800U 81.0 85.4 94.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

OnLogic Ryzen 4800U

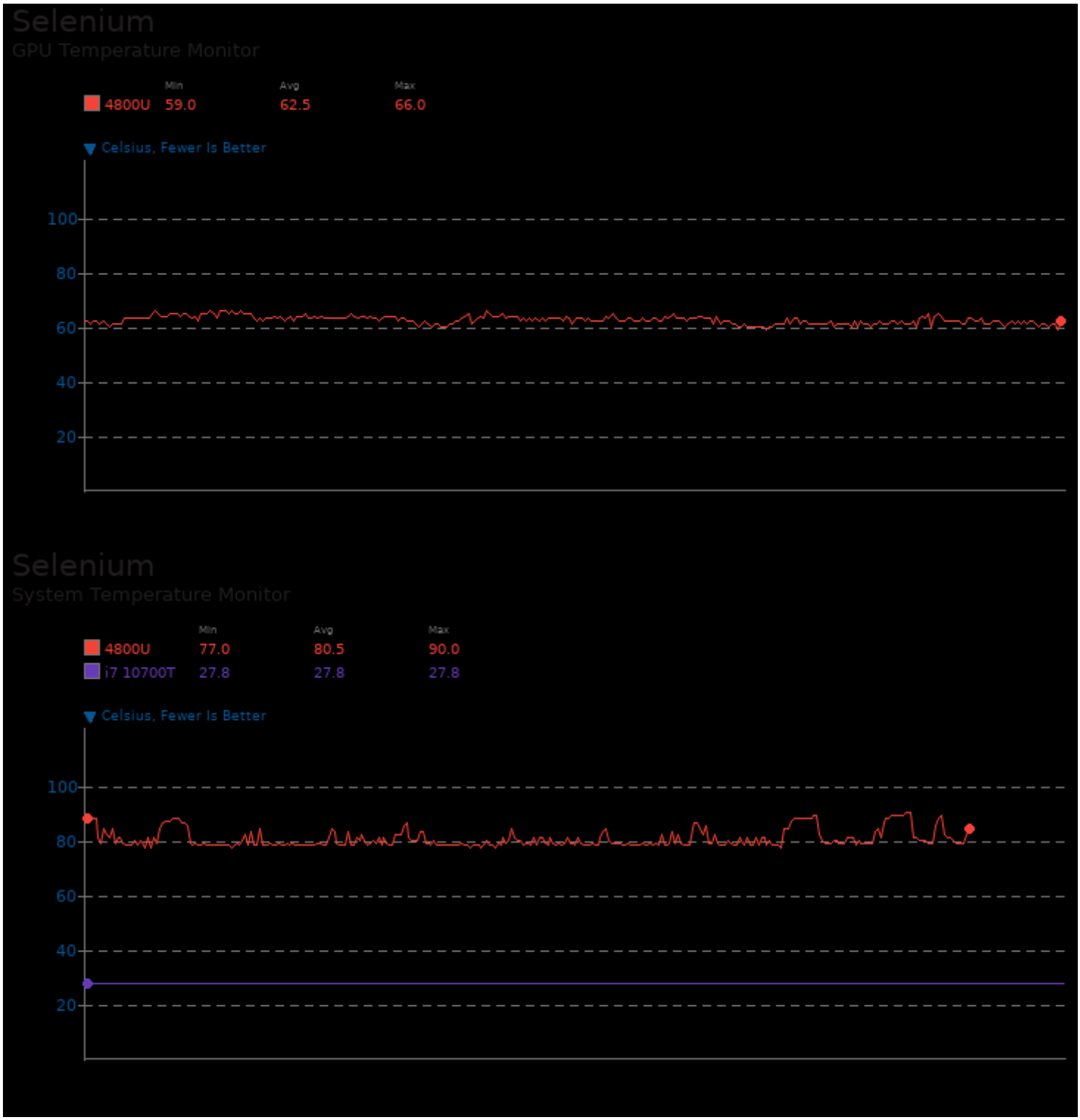


OnLogic Ryzen 4800U

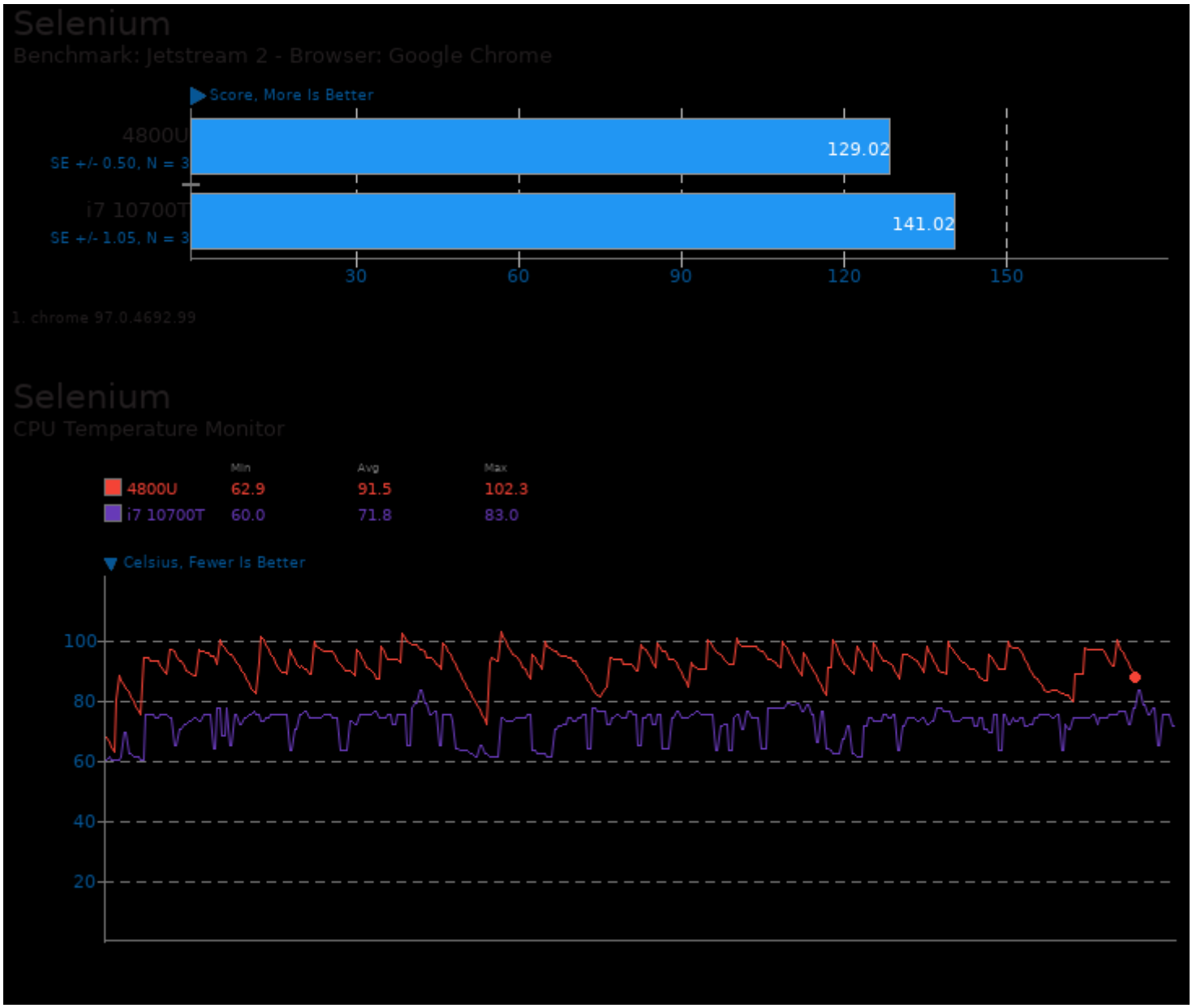



Selenium
Benchmark: StyleBench - Browser: Google Chrome
Runs / Minute, More Is Better
4800U
SE +/- 0.06, N = 3
39.00
i7 10700T
SE +/- 0.21, N = 3
33.20
9
18
27
36
45
1: chrome 97.0.4692.99
Selenium
CPU Temperature Monitor
Min
Avg
Max
4800U 66.5 92.5 101.6
i7 10700T 61.0 71.8 76.0
Celsius, Fewer Is Better
100
80
60
40
20

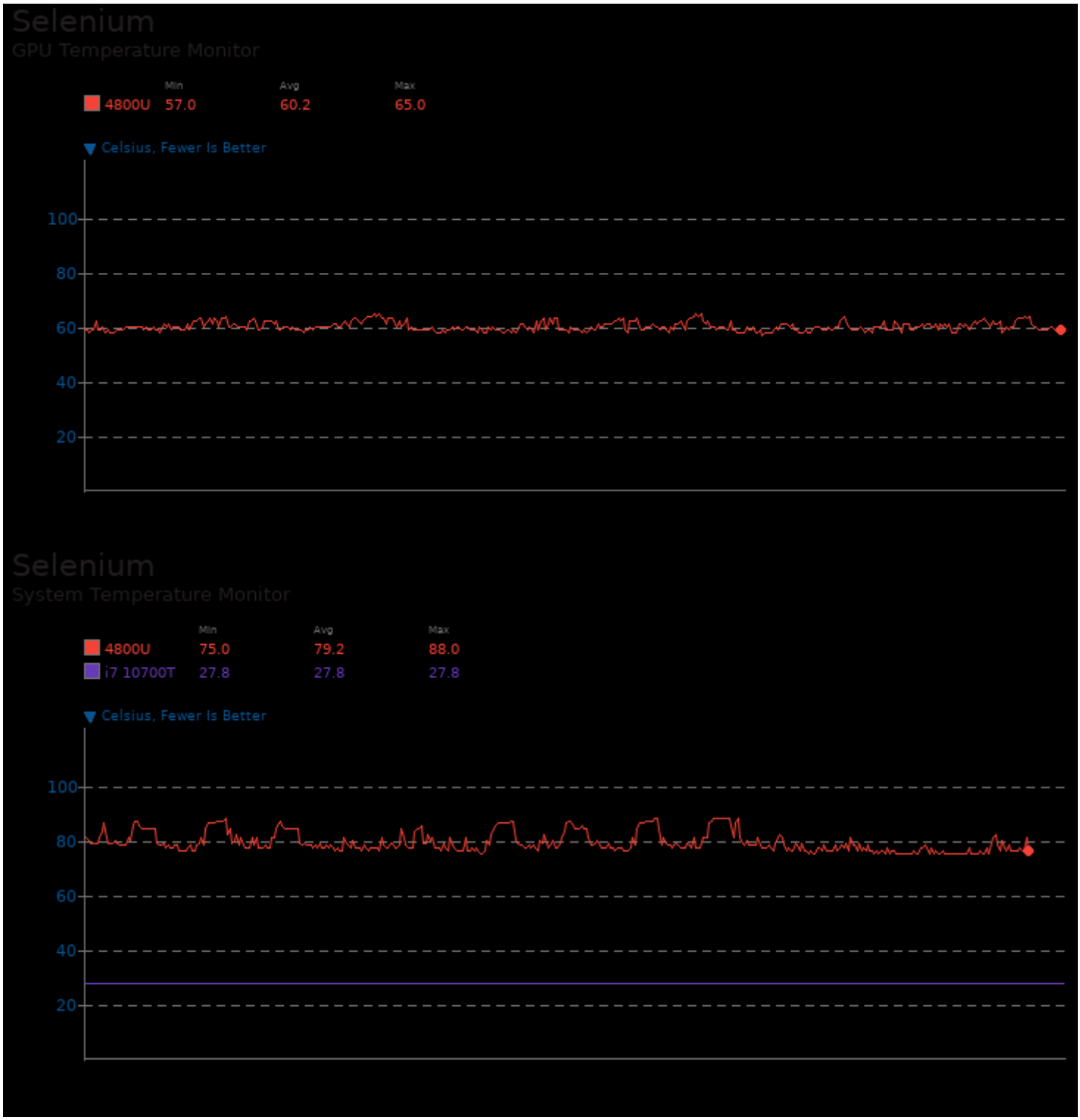
OnLogic Ryzen 4800U

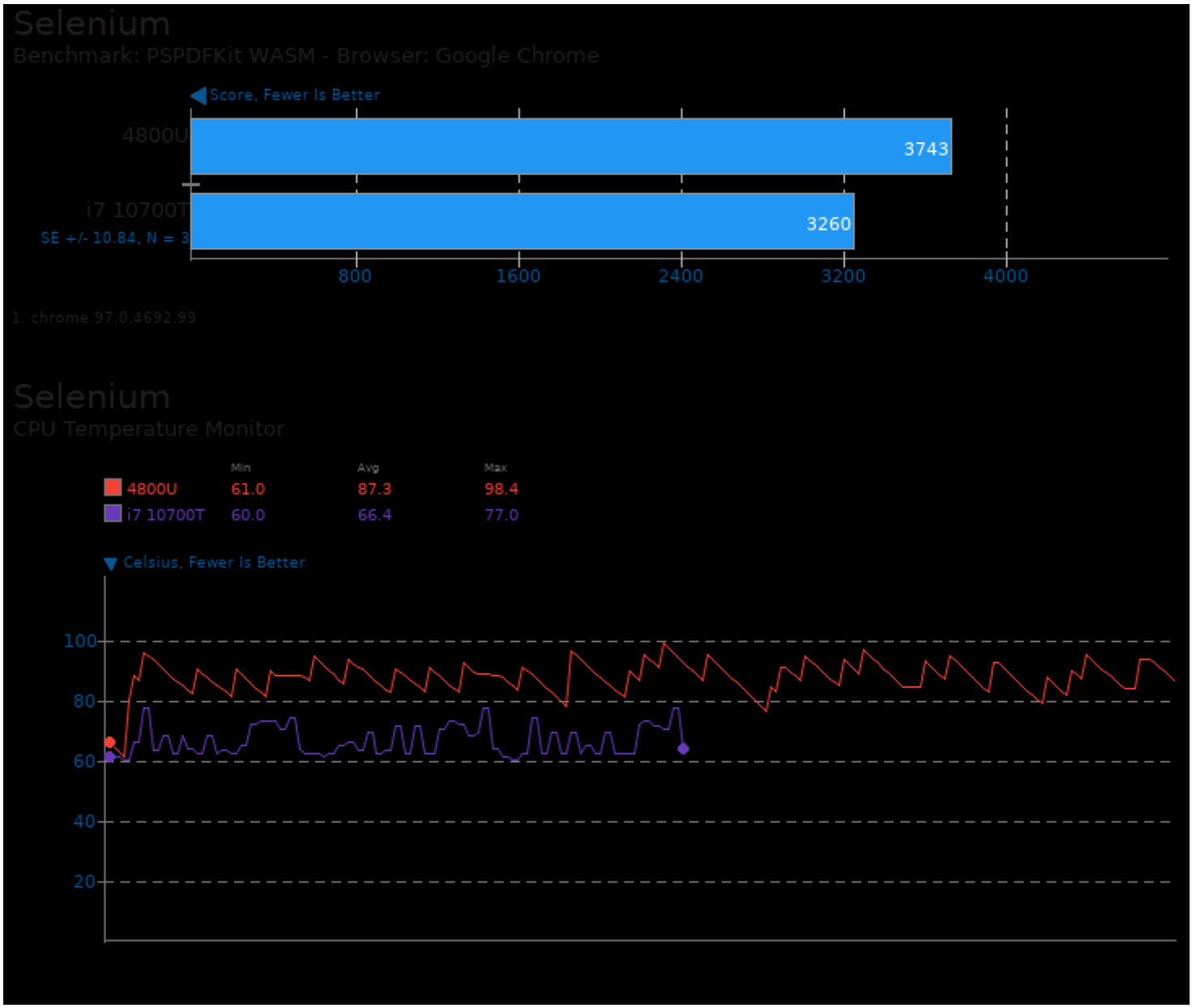


OnLogic Ryzen 4800U

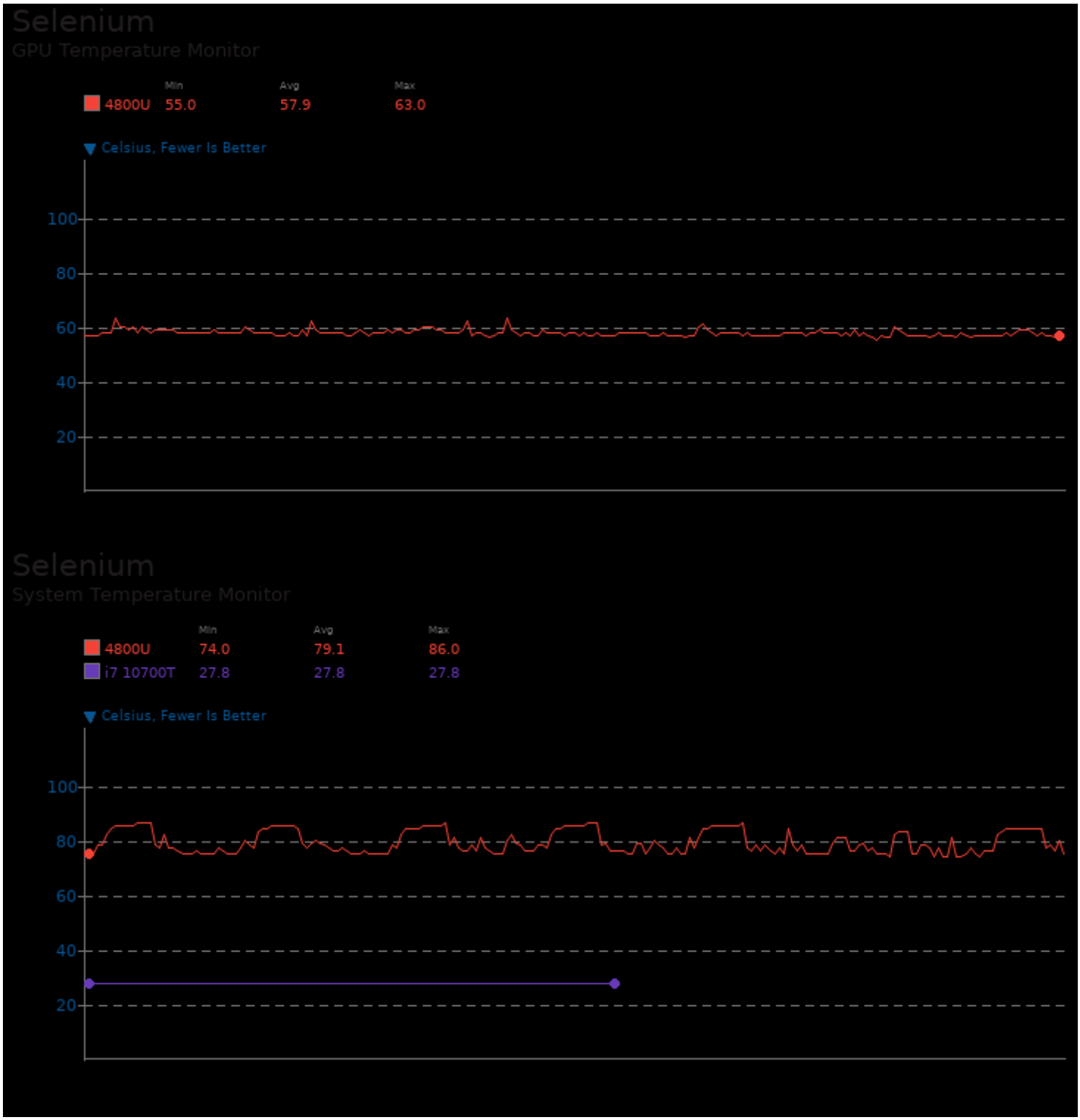


OnLogic Ryzen 4800U

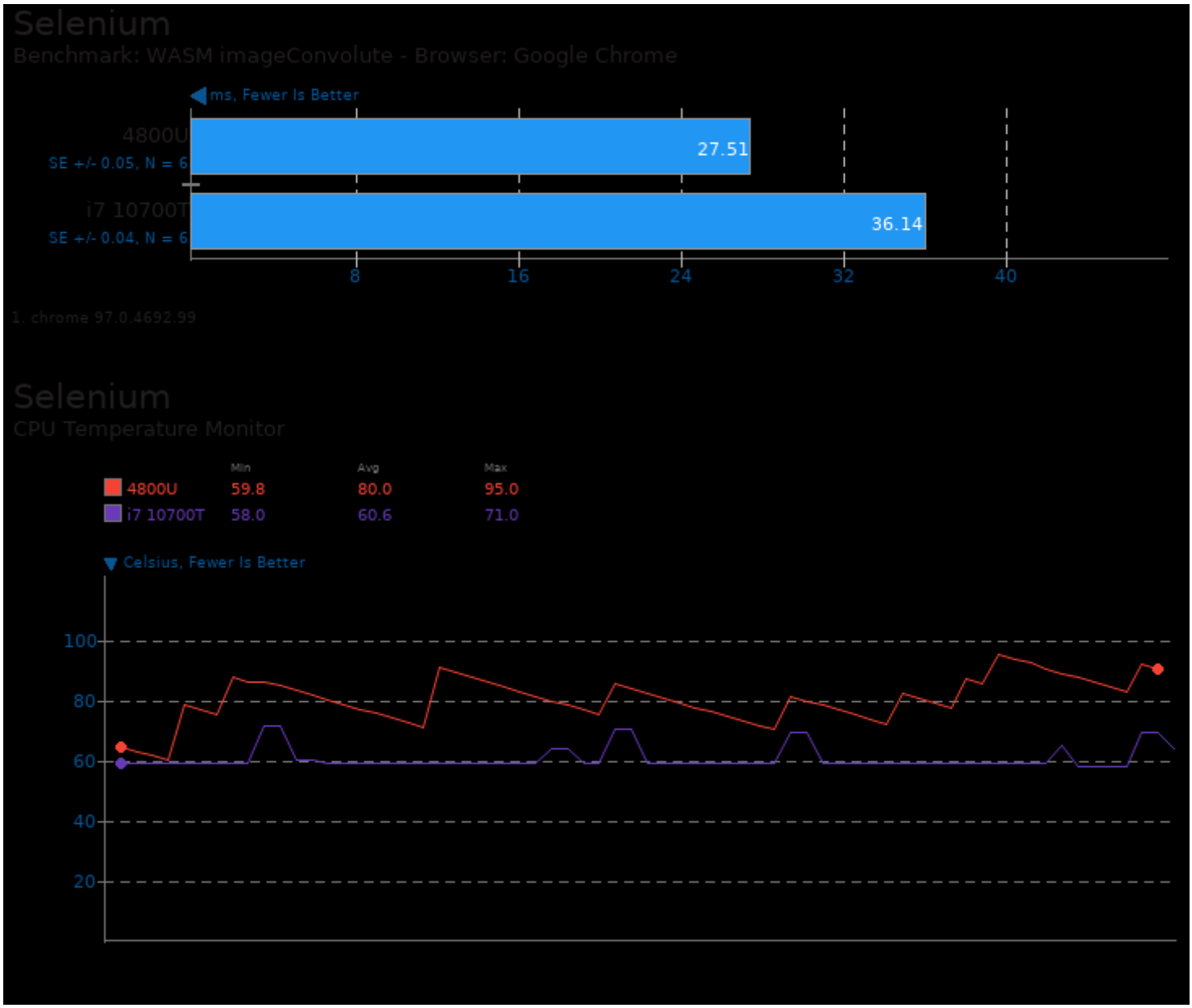



Selenium
Benchmark: PSPDFKit WASM - Browser: Google Chrome
Score, Fewer Is Better
4800U
3743
i7 10700T
3260
SE +/- 10.84, N = 3
800
1600
2400
3200
4000
1: chrome 97.0.4692.99
Selenium
CPU Temperature Monitor
Min
Avg
Max
4800U 61.0 87.3 98.4
i7 10700T 60.0 66.4 77.0
Celsius, Fewer Is Better
100
80
60
40
20

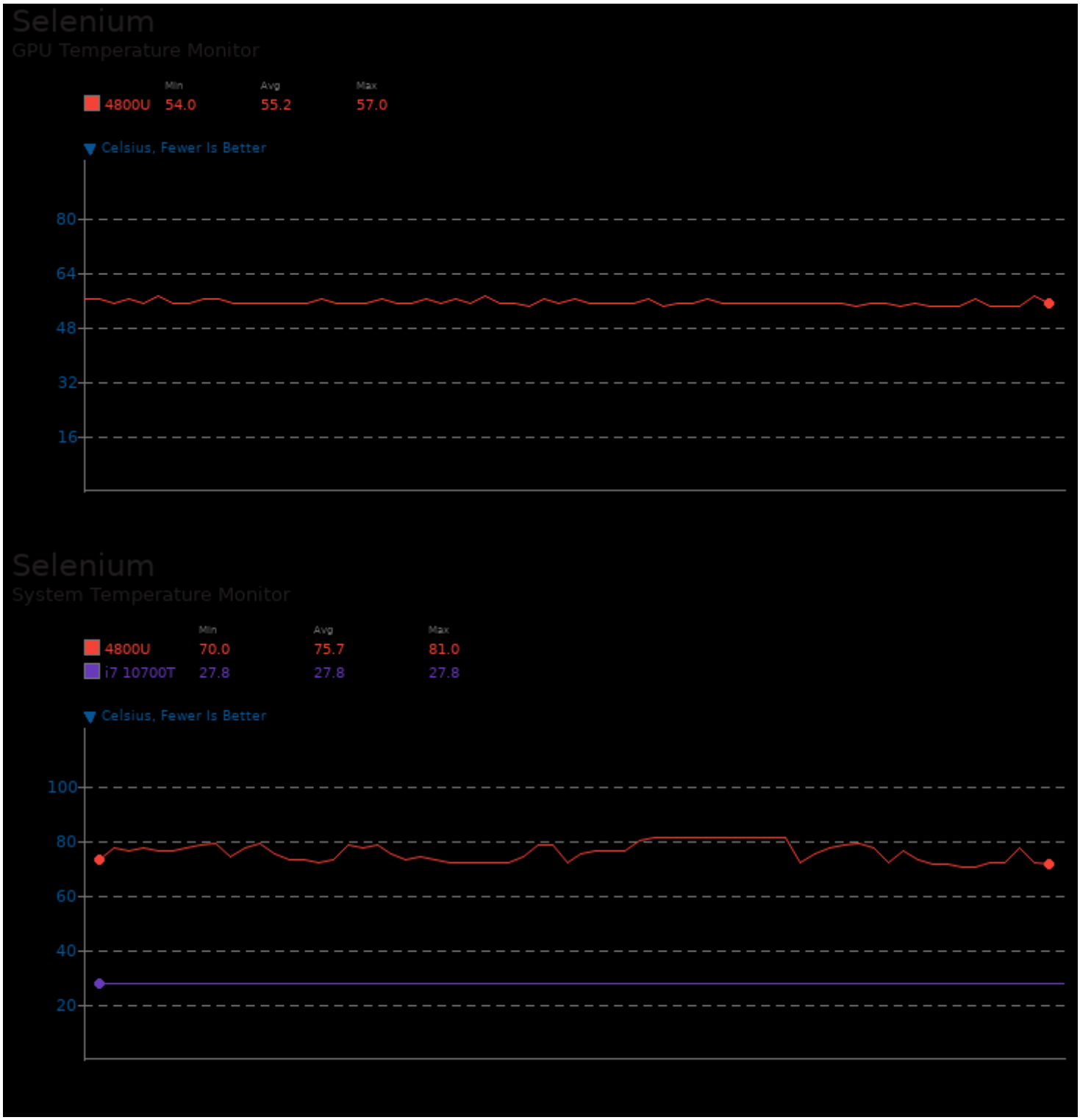
OnLogic Ryzen 4800U

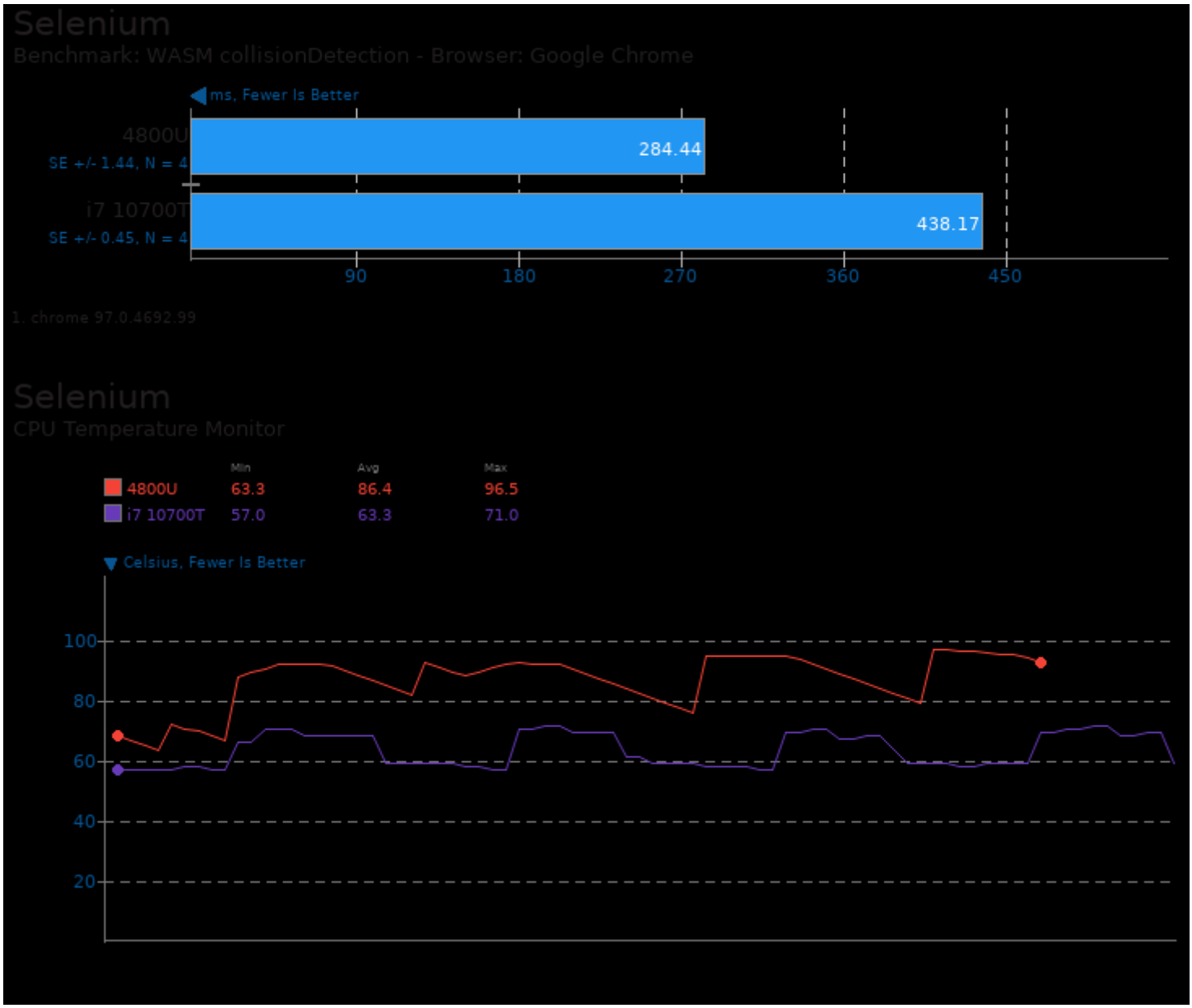


OnLogic Ryzen 4800U

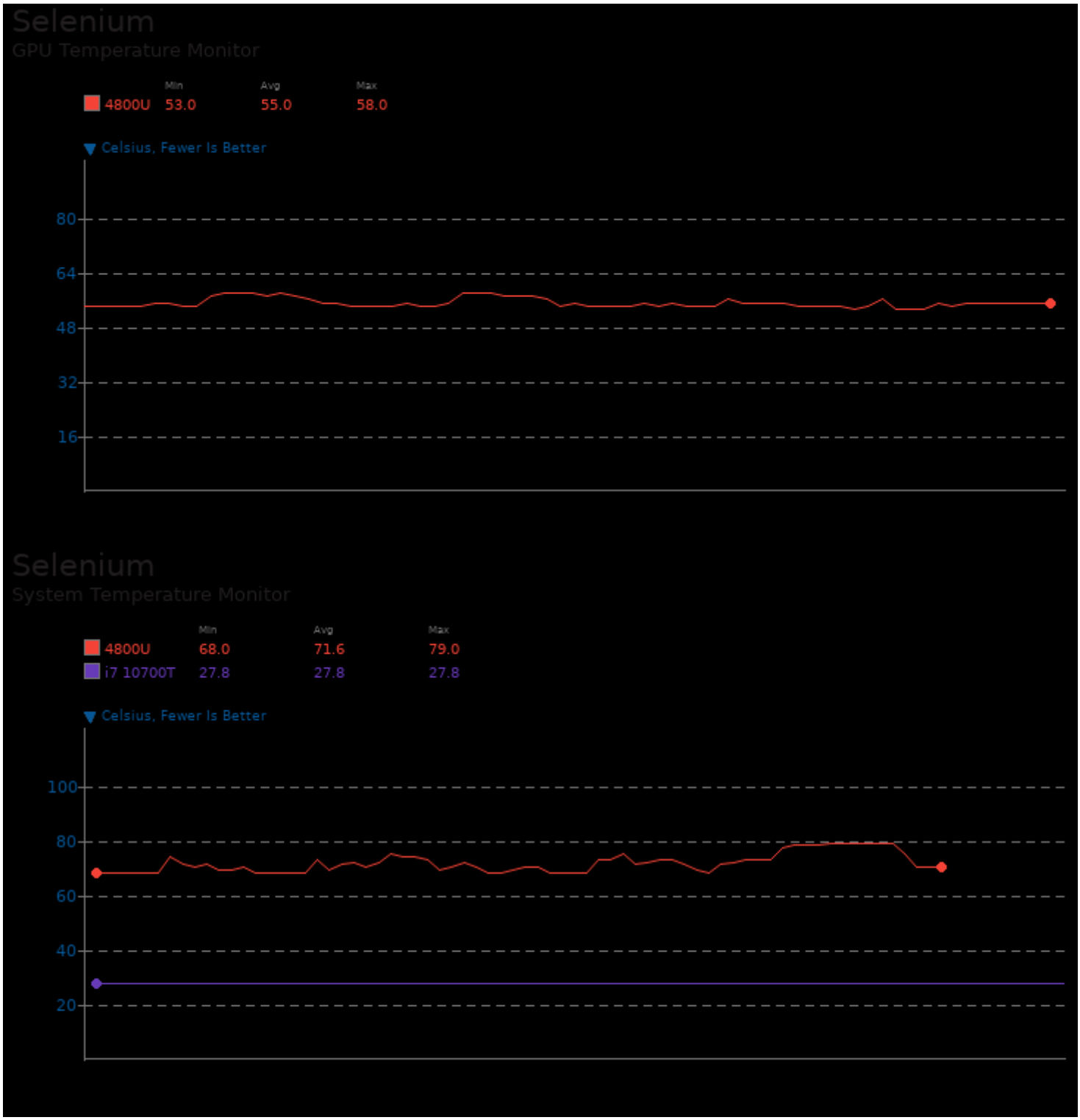


OnLogic Ryzen 4800U

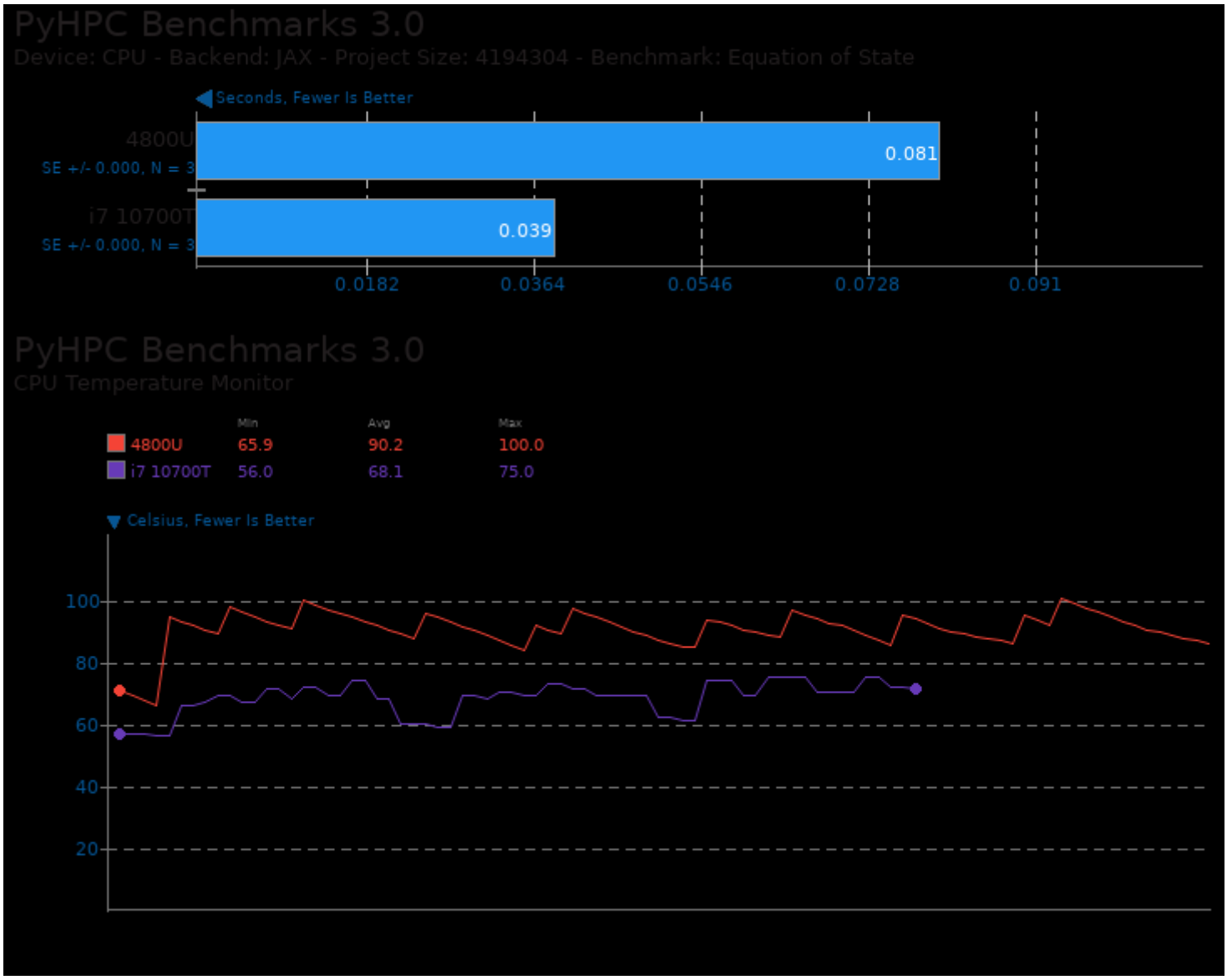


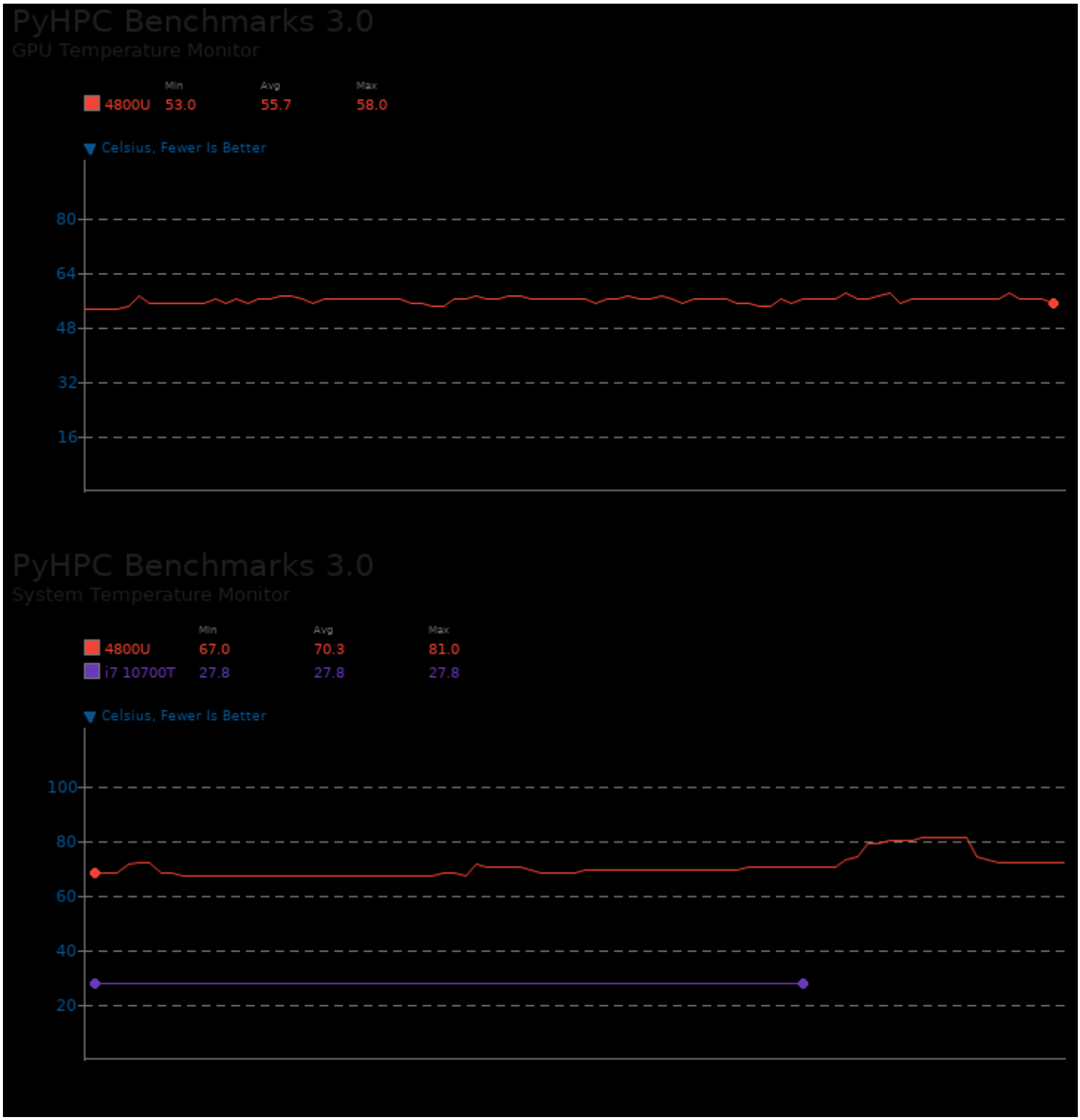

Selenium
Benchmark: WASM collisionDetection - Browser: Google Chrome
ms, Fewer Is Better
4800U
SE +/- 1.44, N = 4
284.44
i7 10700T
SE +/- 0.45, N = 4
438.17
90
180
270
360
450
1: chrome 97.0.4692.99
Selenium
CPU Temperature Monitor
Min
Avg
Max
4800U 63.3 86.4 96.5
i7 10700T 57.0 63.3 71.0
Celsius, Fewer Is Better
100
80
60
40
20

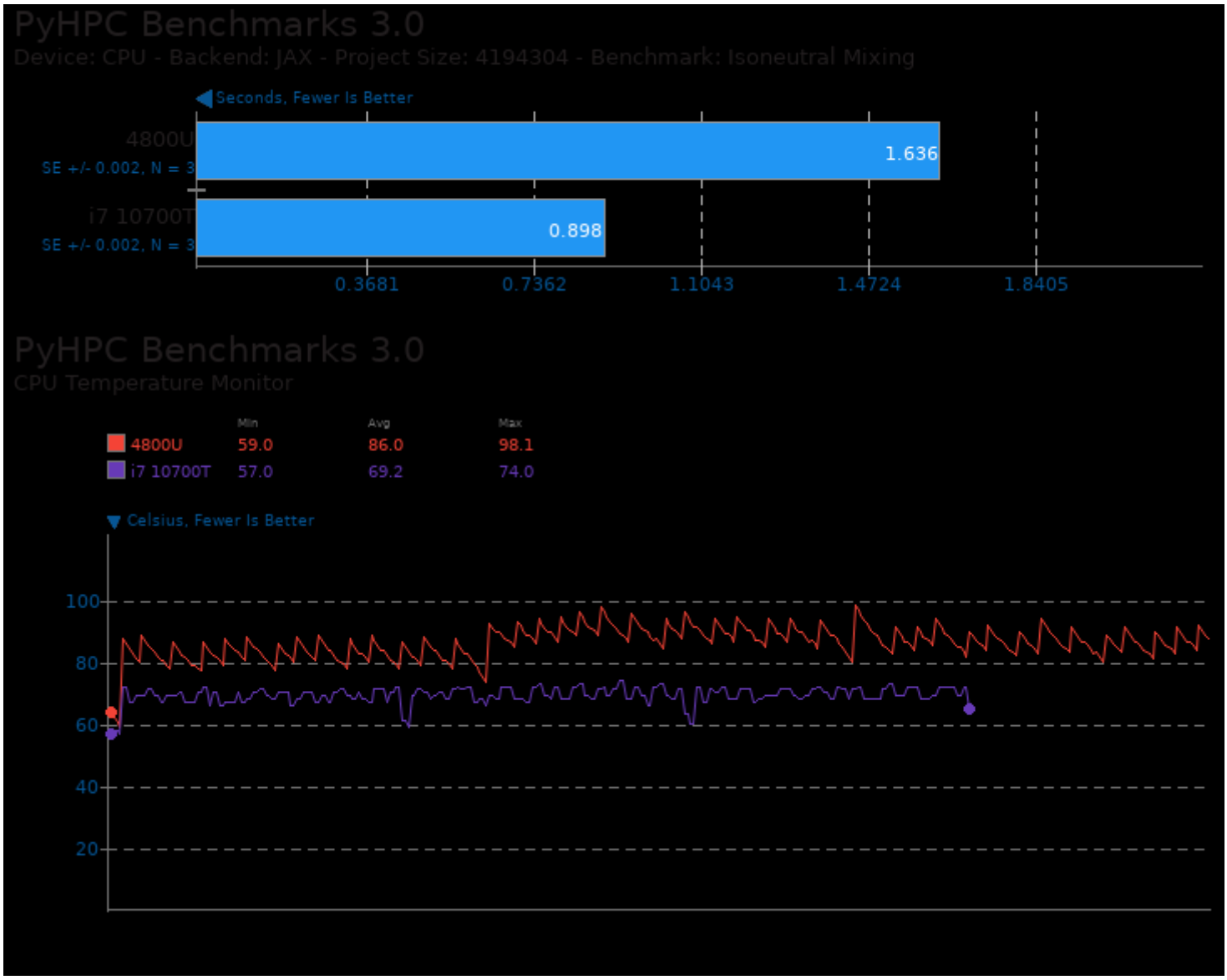
OnLogic Ryzen 4800U

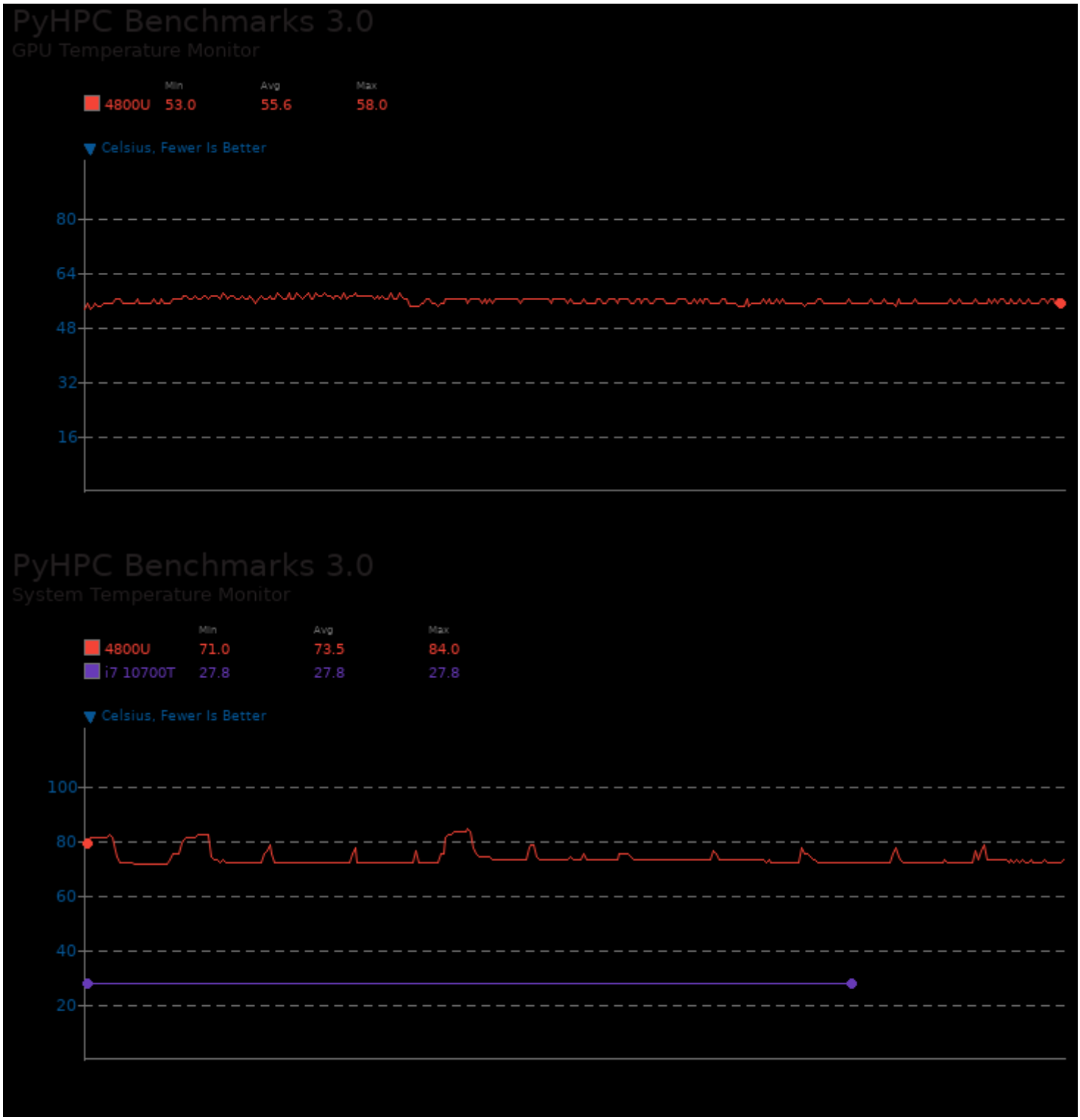


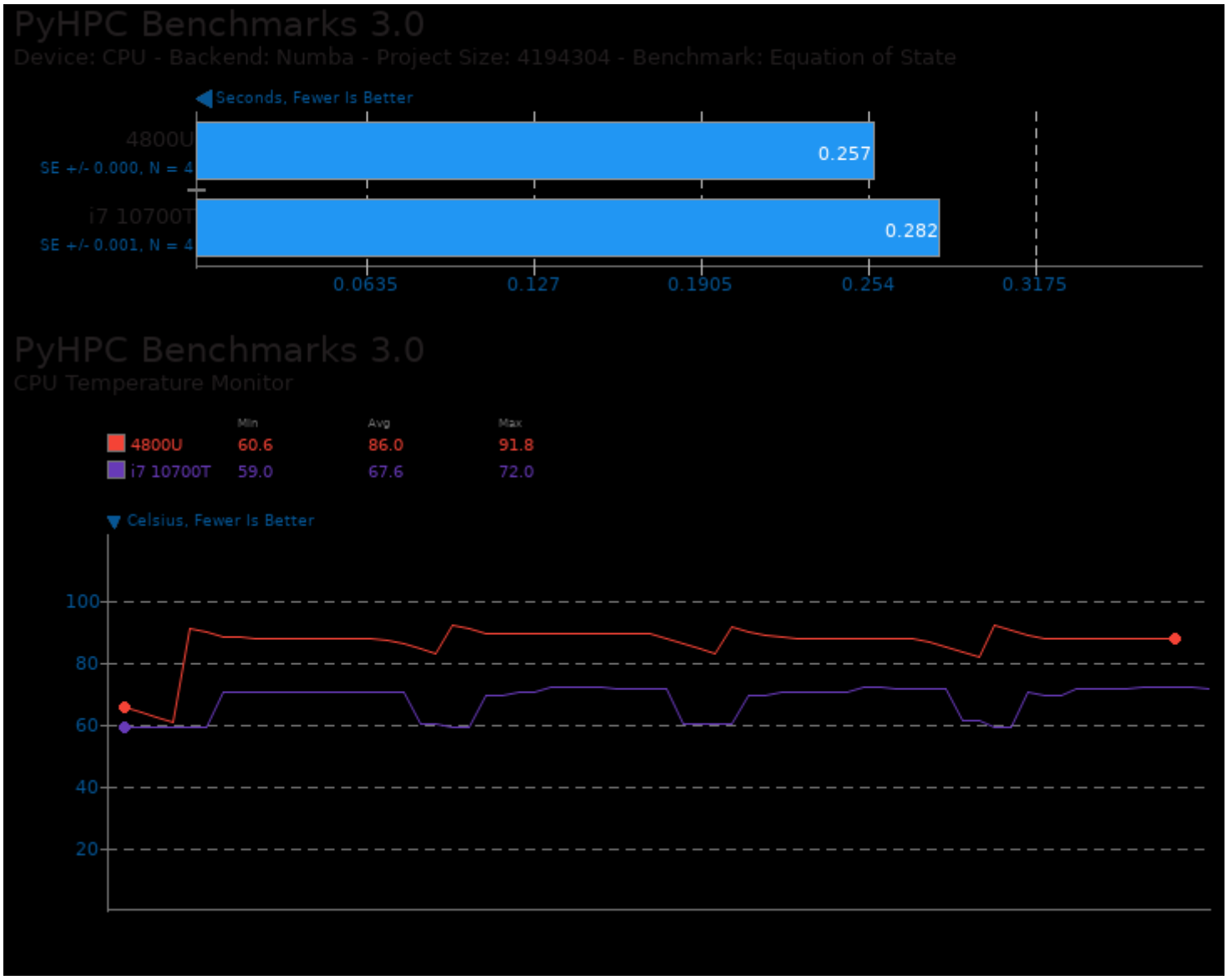
OnLogic Ryzen 4800U

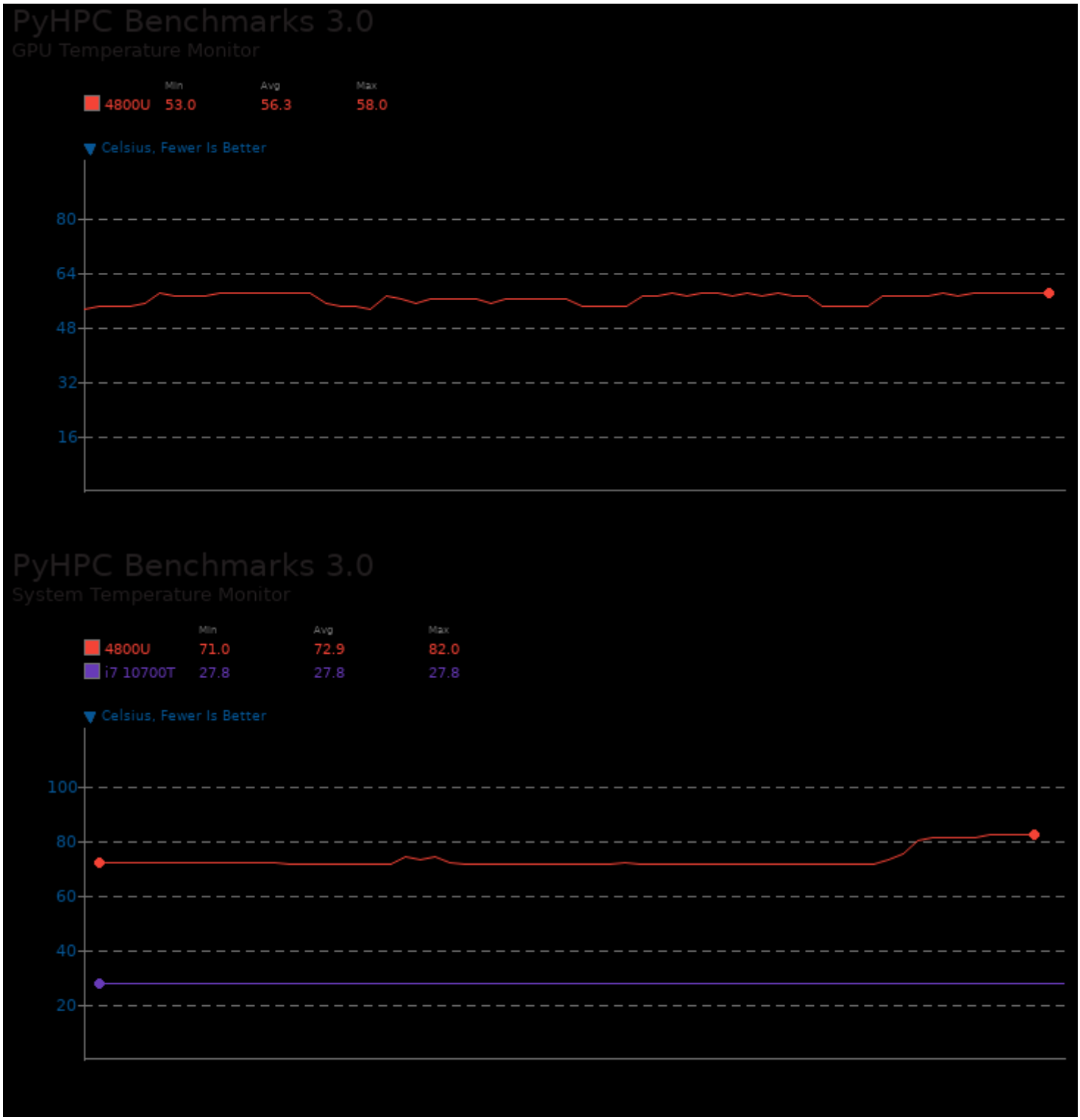


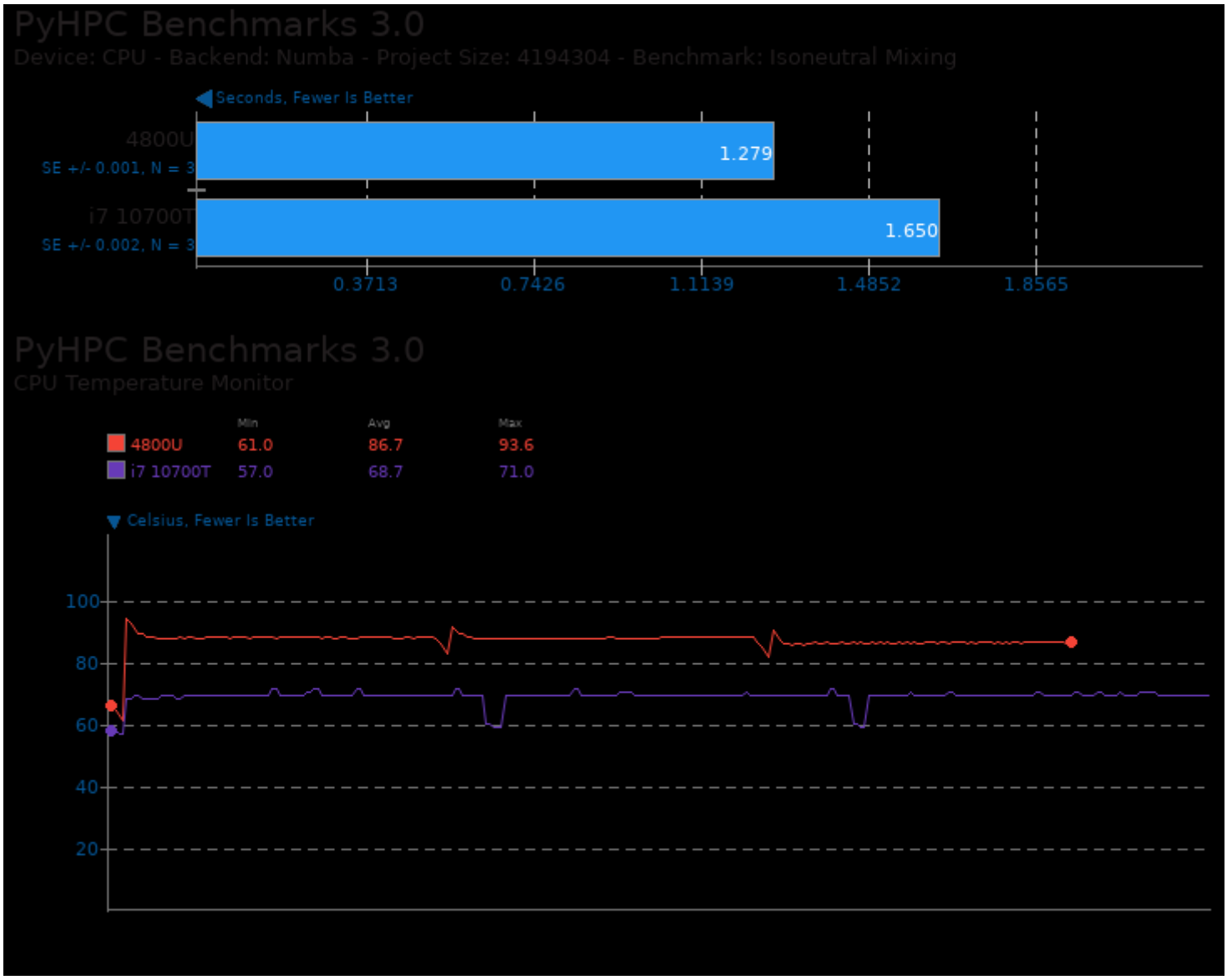

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 55.7 58.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 67.0 70.3 81.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20


PyHPC Benchmarks 3.0
Device: CPU - Backend: JAX - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
4800U
SE +/- 0.002, N = 3
1.636
i7 10700T
SE +/- 0.002, N = 3
0.898
0.3681
0.7362
1.1043
1.4724
1.8405
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 59.0 86.0 98.1
i7 10700T 57.0 69.2 74.0
Celsius, Fewer Is Better
100
80
60
40
20

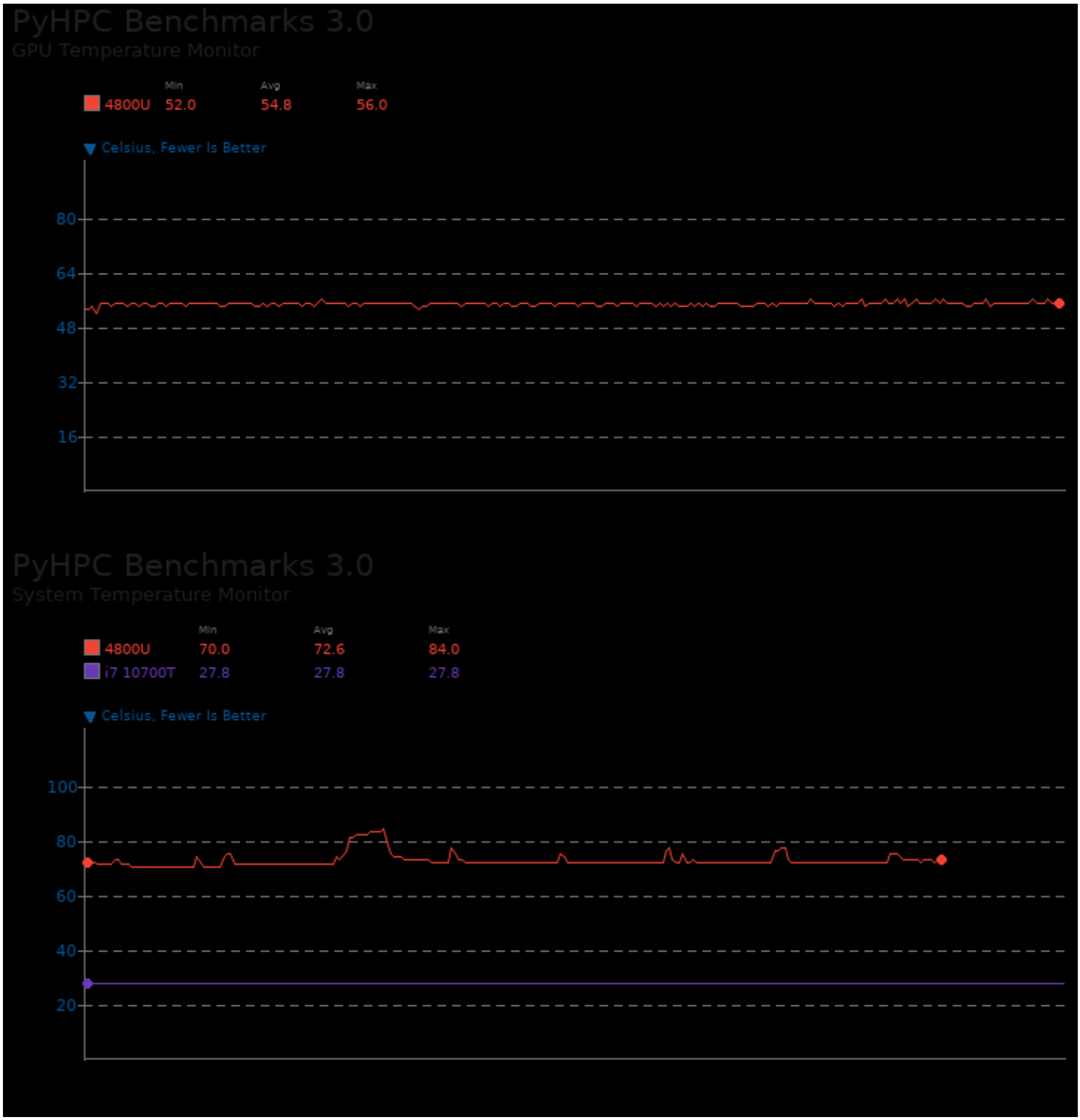

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 55.6 58.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 71.0 73.5 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

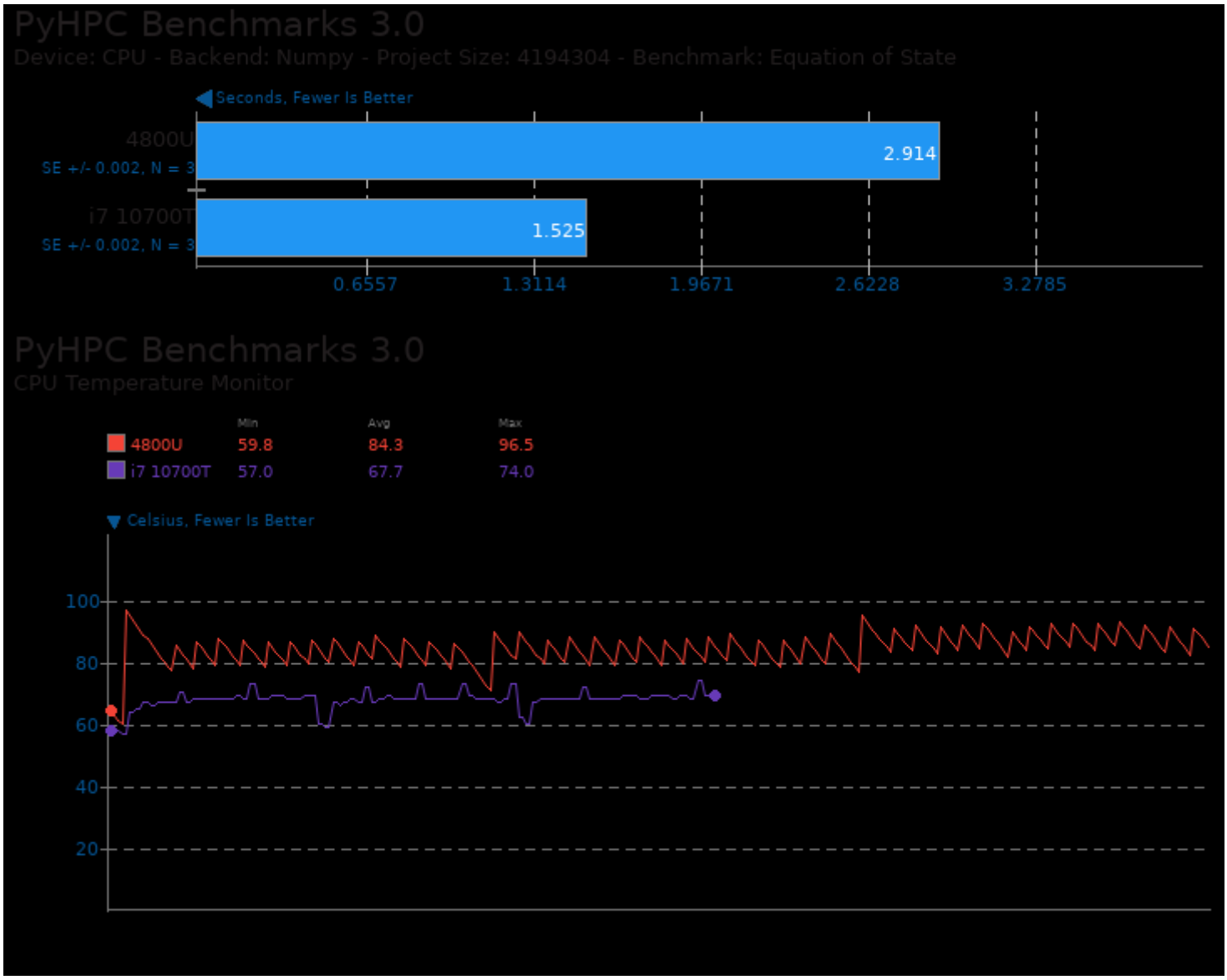

PyHPC Benchmarks 3.0
Device: CPU - Backend: Numba - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
4800U
SE +/- 0.000, N = 4
0.257
i7 10700T
SE +/- 0.001, N = 4
0.282
0.0635
0.127
0.1905
0.254
0.3175
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 60.6 86.0 91.8
i7 10700T 59.0 67.6 72.0
Celsius, Fewer Is Better
100
80
60
40
20

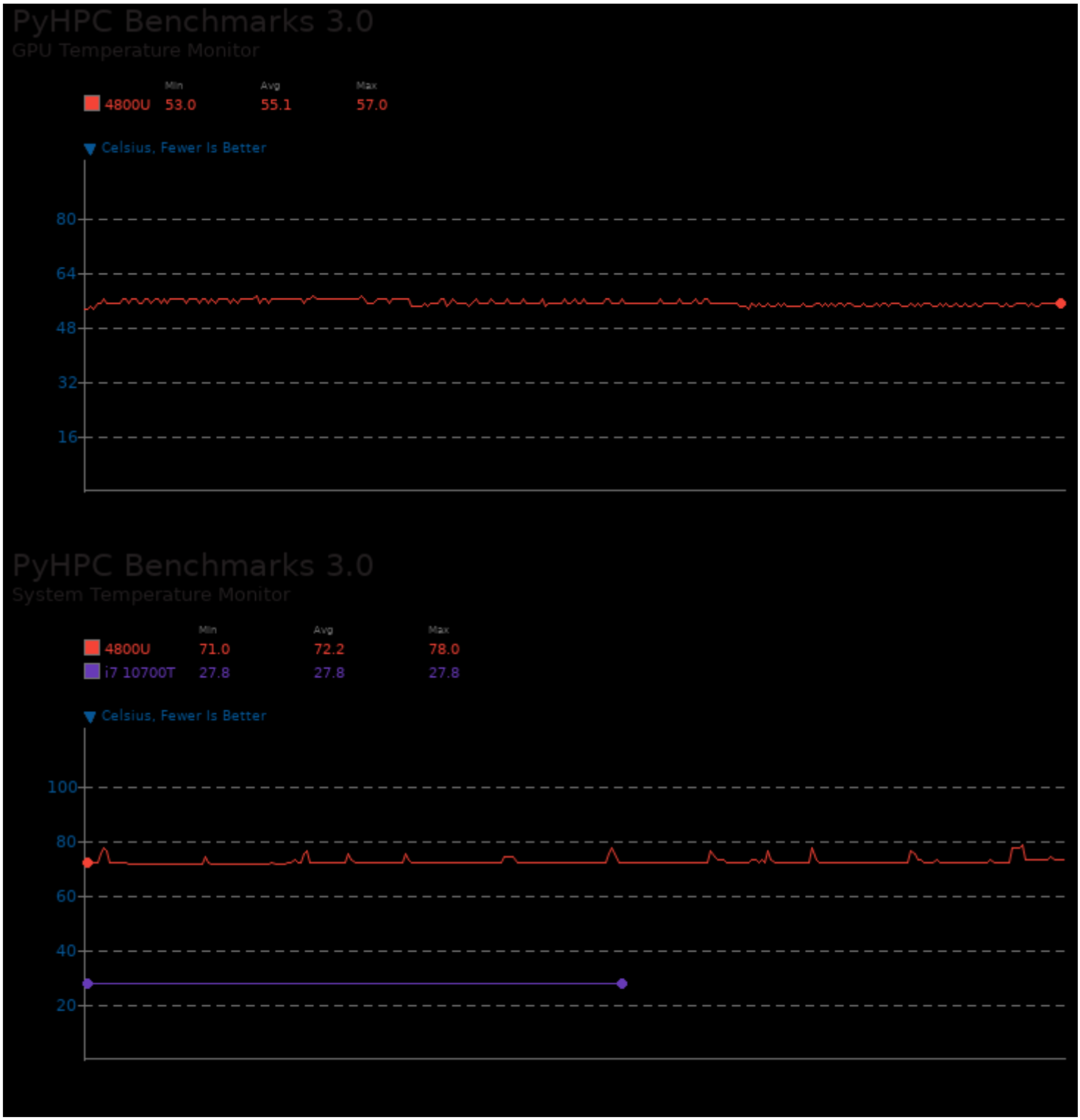

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 56.3 58.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 71.0 72.9 82.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

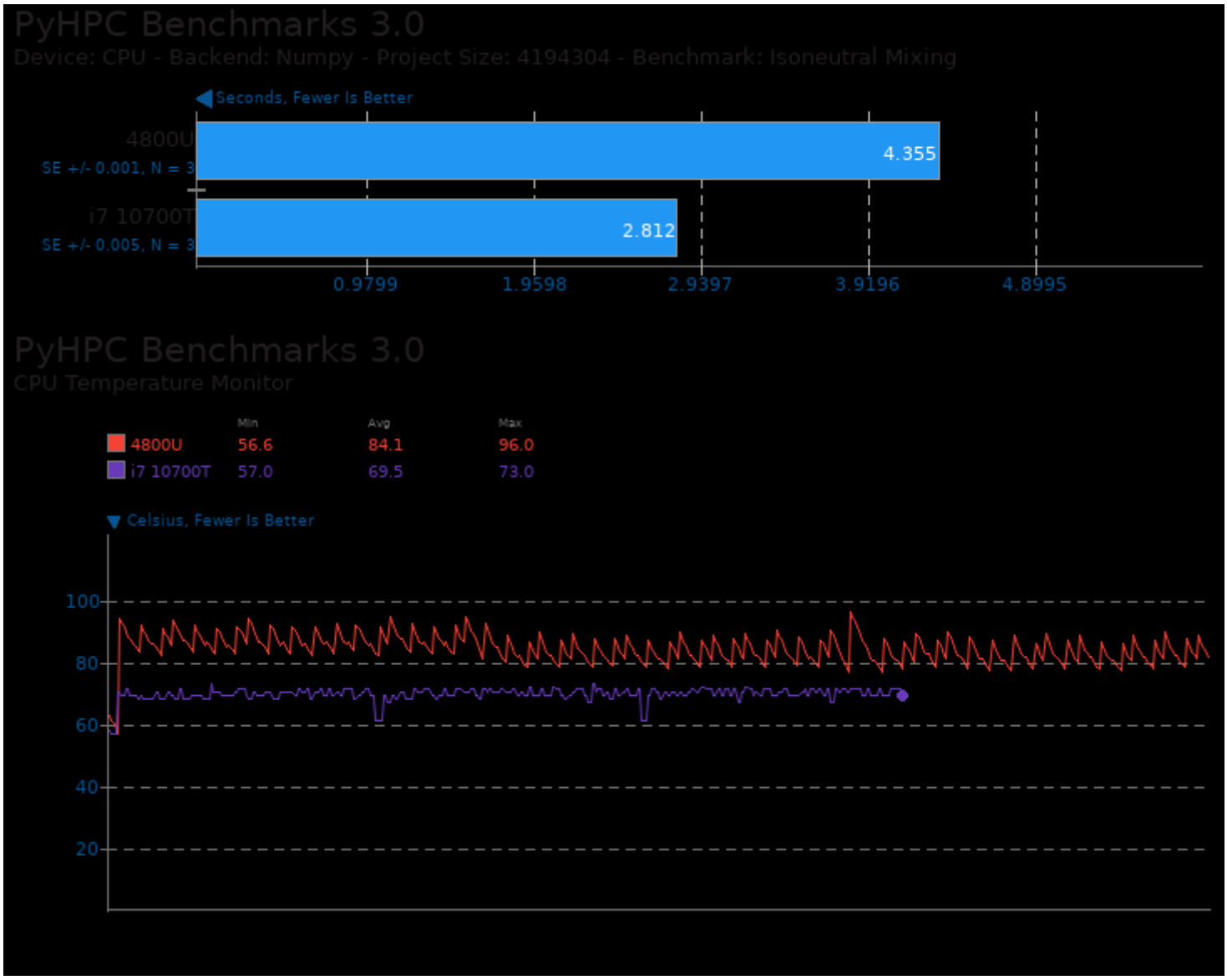

PyHPC Benchmarks 3.0
Device: CPU - Backend: Numba - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
4800U
SE +/- 0.001, N = 3
1.279
i7 10700T
SE +/- 0.002, N = 3
1.650
0.3713
0.7426
1.1139
1.4852
1.8565
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 61.0 86.7 93.6
i7 10700T 57.0 68.7 71.0
Celsius, Fewer Is Better
100
80
60
40
20

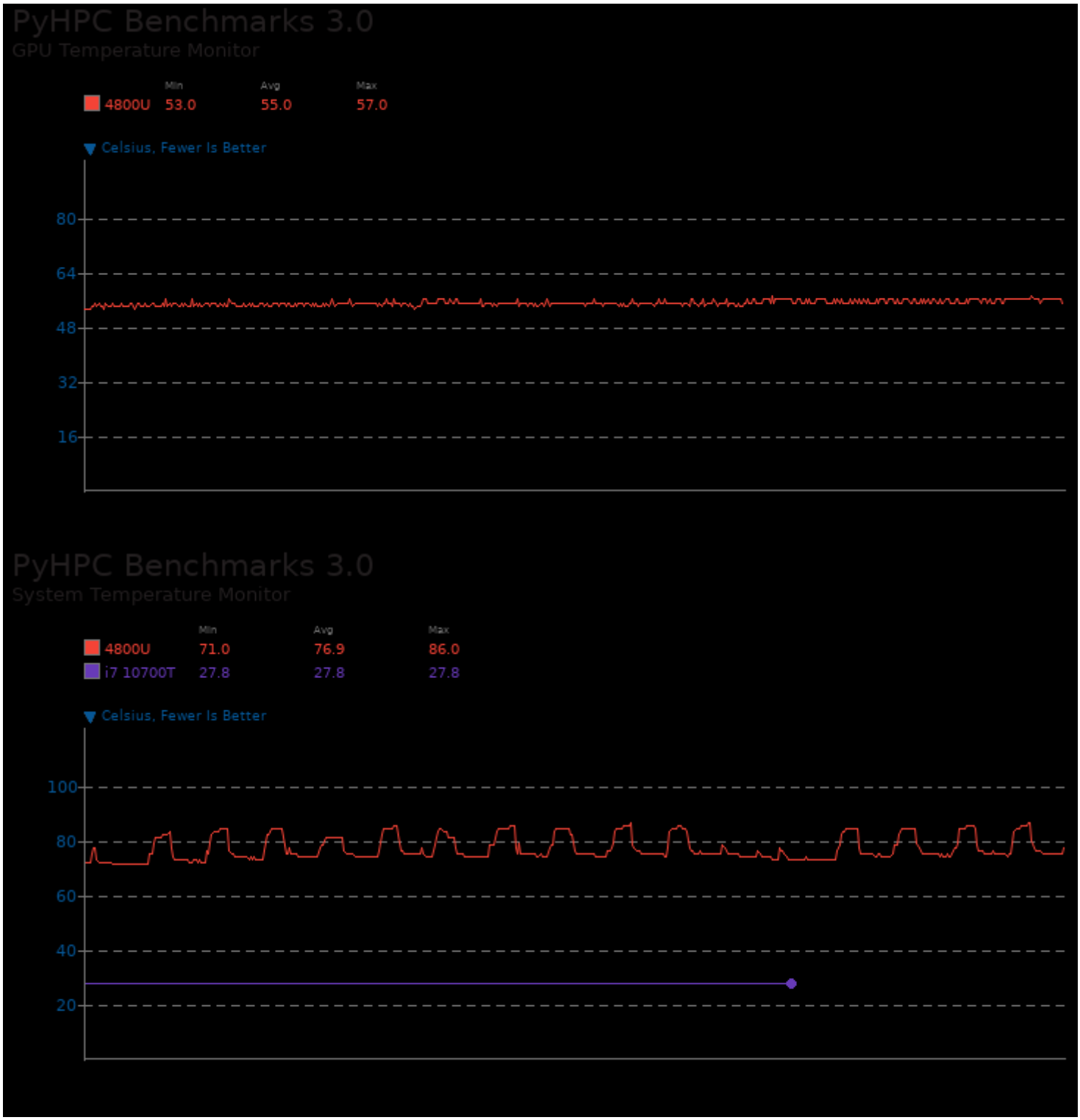
OnLogic Ryzen 4800U

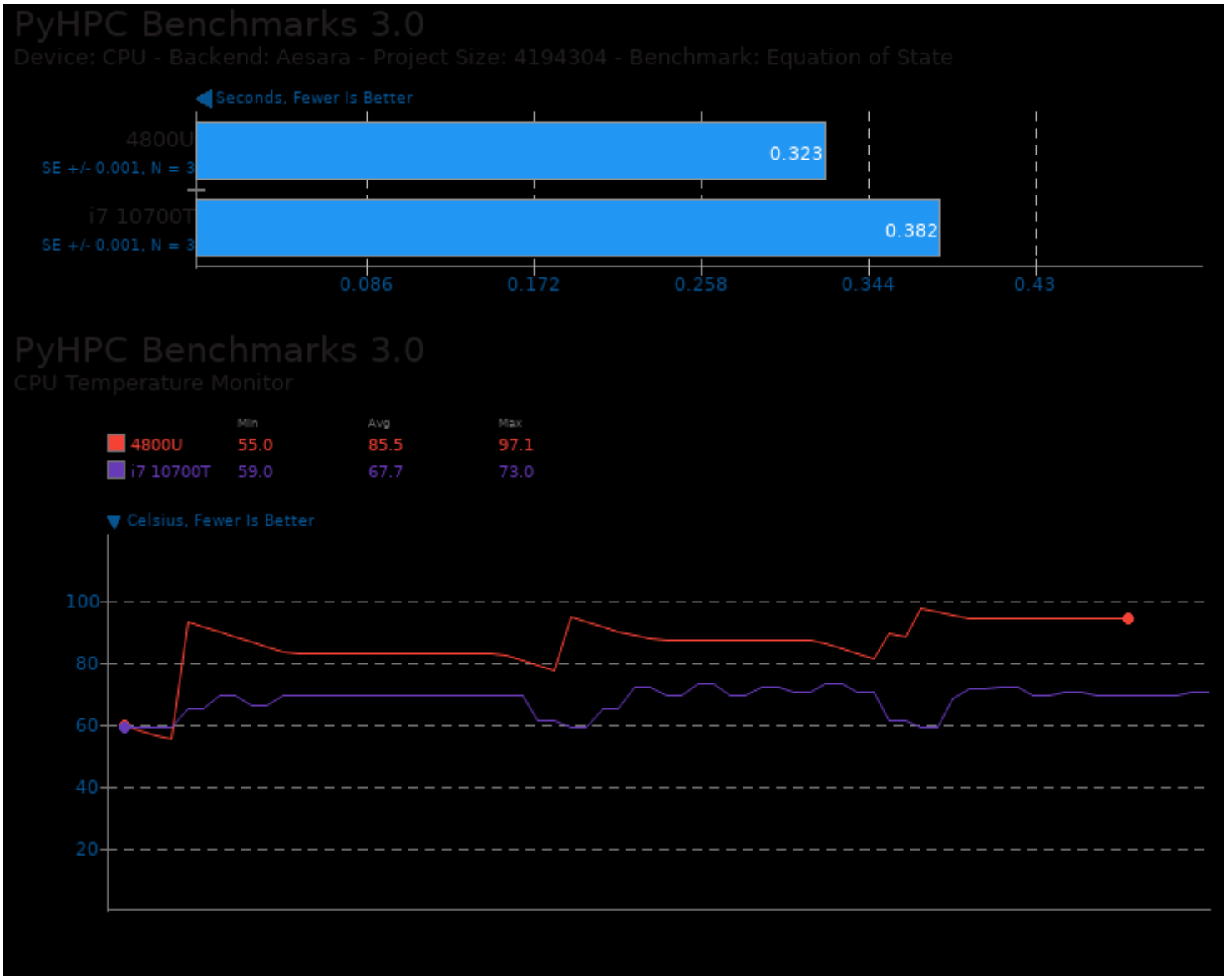


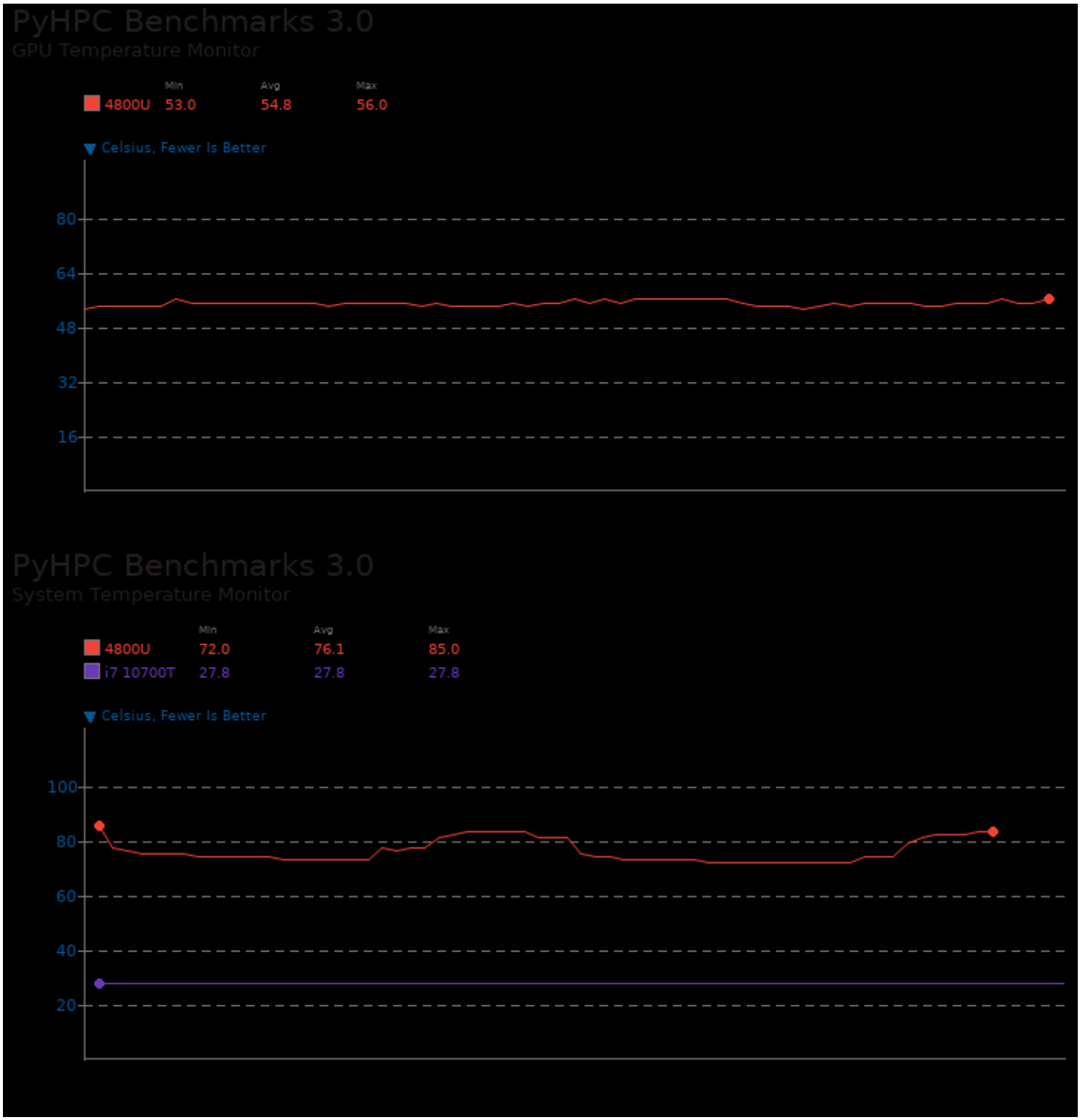

PyHPC Benchmarks 3.0
Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
4800U
SE +/- 0.002, N = 3
2.914
i7 10700T
SE +/- 0.002, N = 3
1.525
0.6557
1.3114
1.9671
2.6228
3.2785
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 59.8 84.3 96.5
i7 10700T 57.0 67.7 74.0
Celsius, Fewer Is Better
100
80
60
40
20

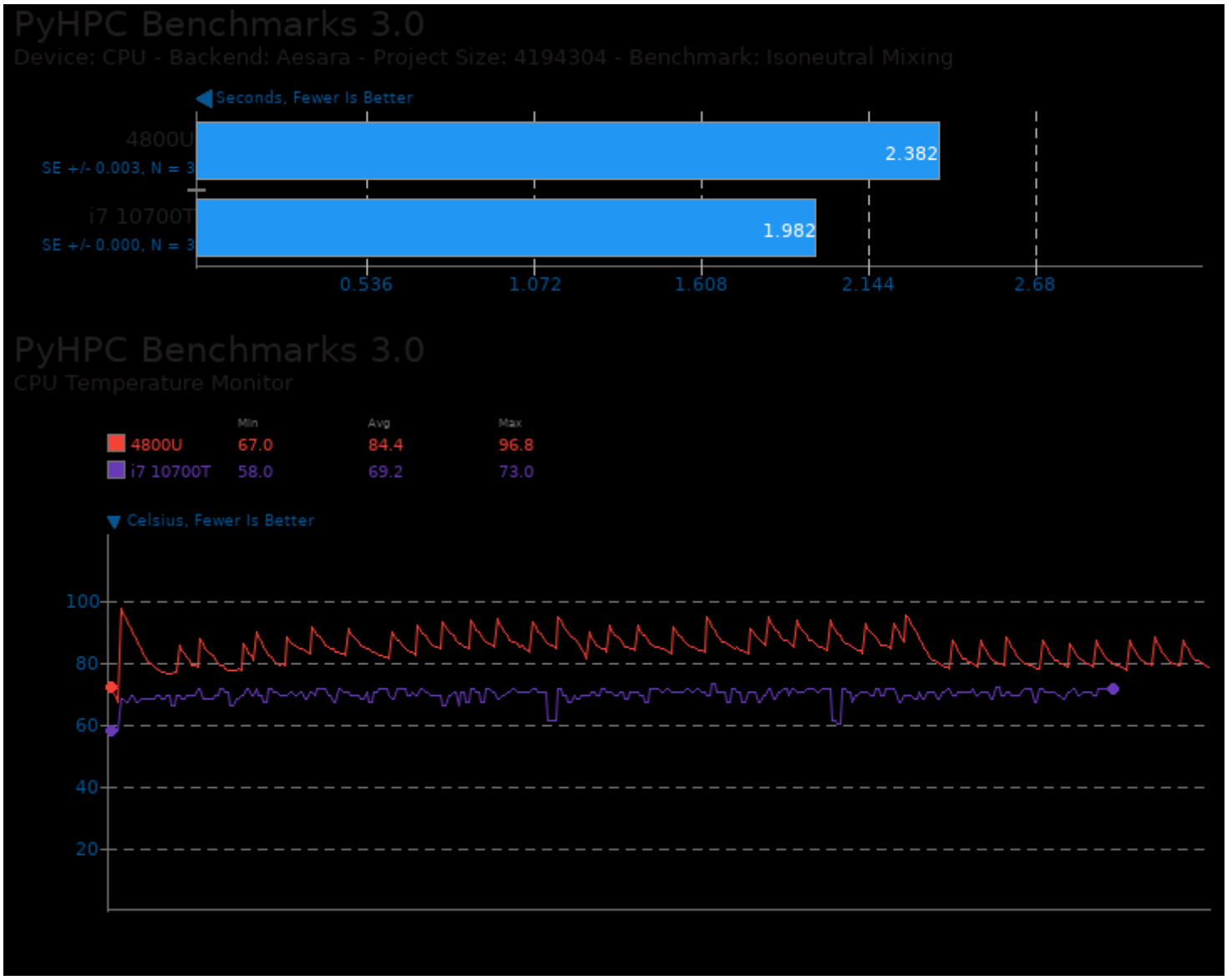

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 55.1 57.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 71.0 72.2 78.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

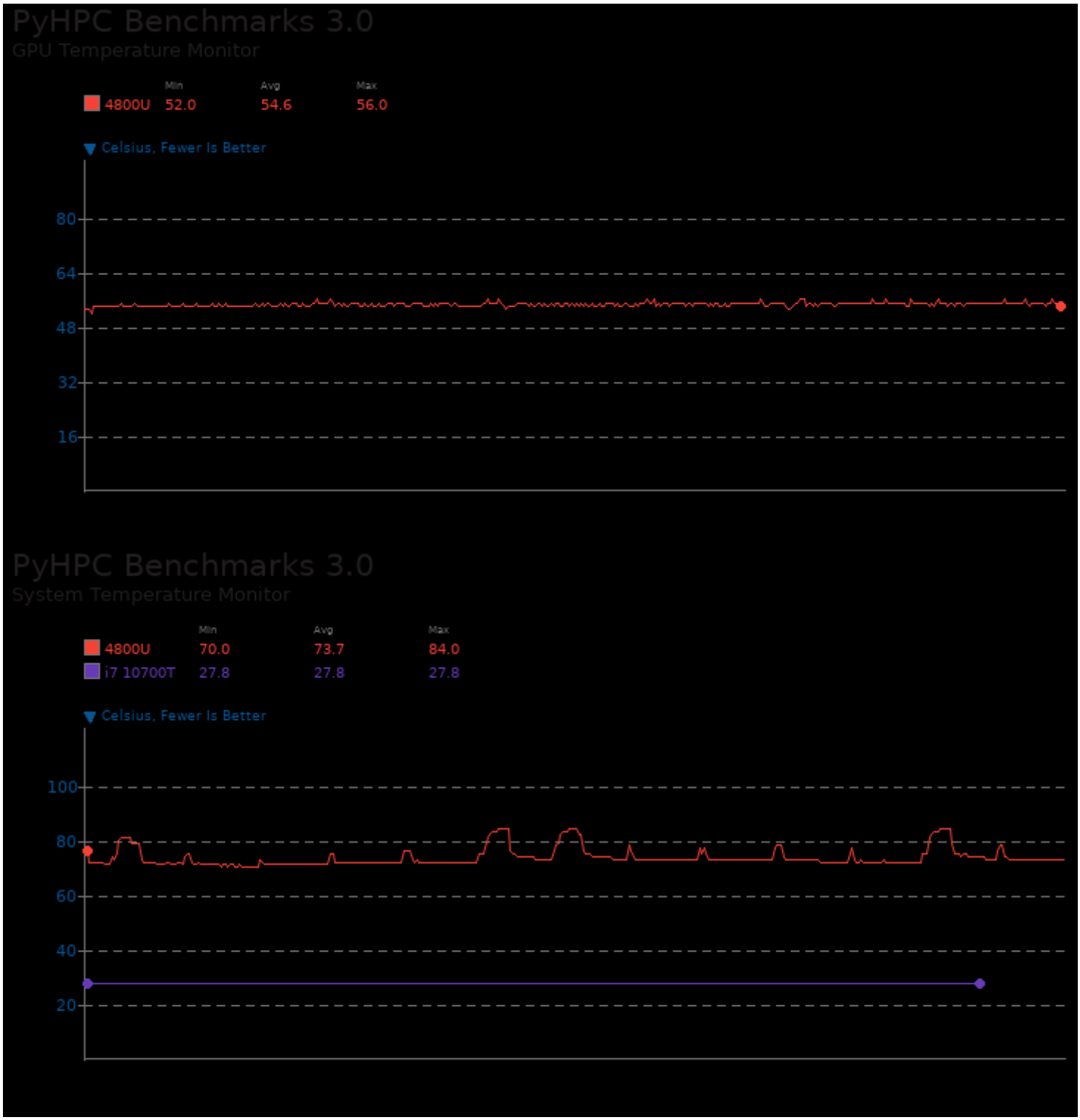

PyHPC Benchmarks 3.0
Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
4800U
SE +/- 0.001, N = 3
4.355
i7 10700T
SE +/- 0.005, N = 3
2.812
0.9799
1.9598
2.9397
3.9196
4.8995
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 56.6 84.1 96.0
i7 10700T 57.0 69.5 73.0
Celsius, Fewer Is Better
100
80
60
40
20

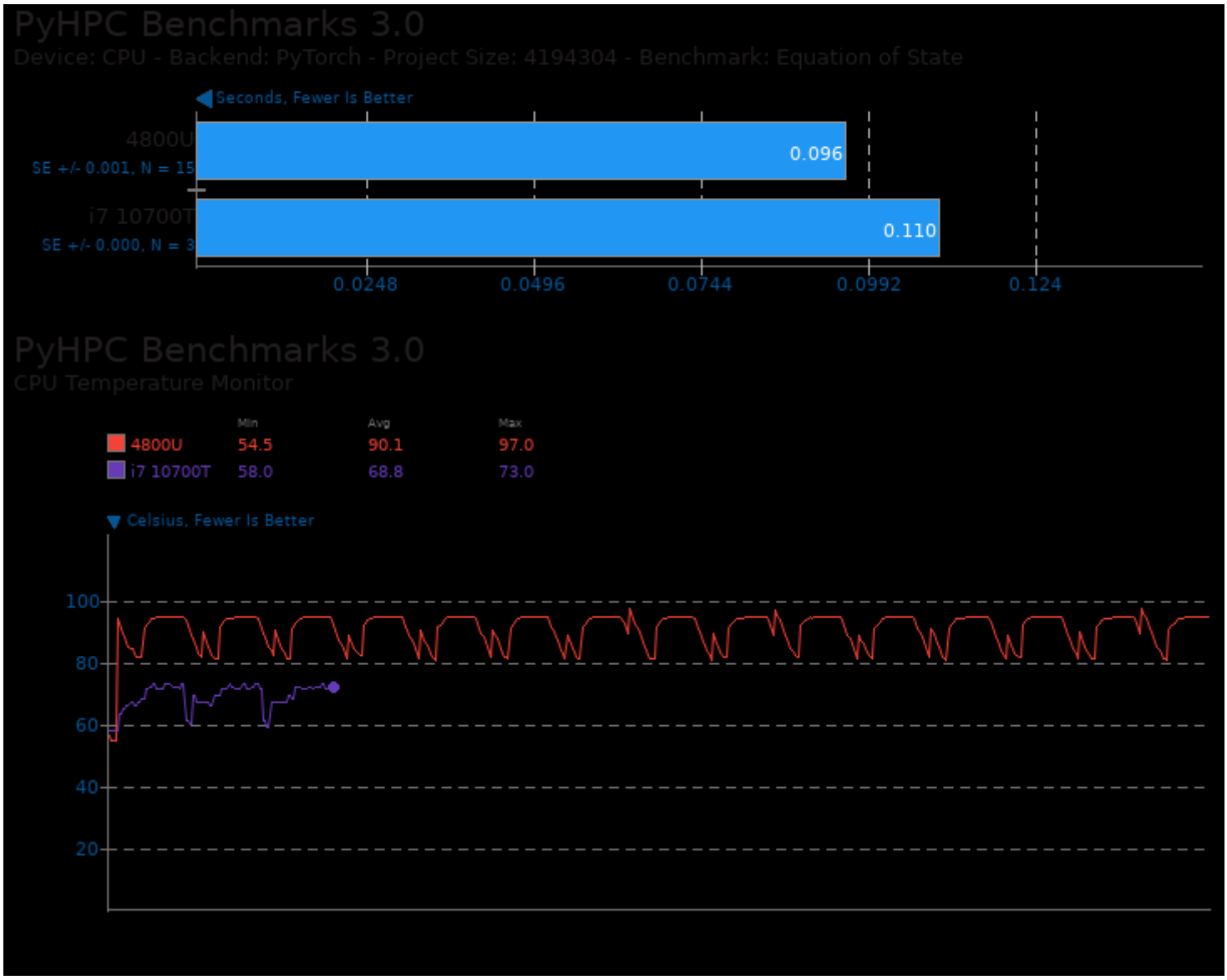

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 55.0 57.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 71.0 76.9 86.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

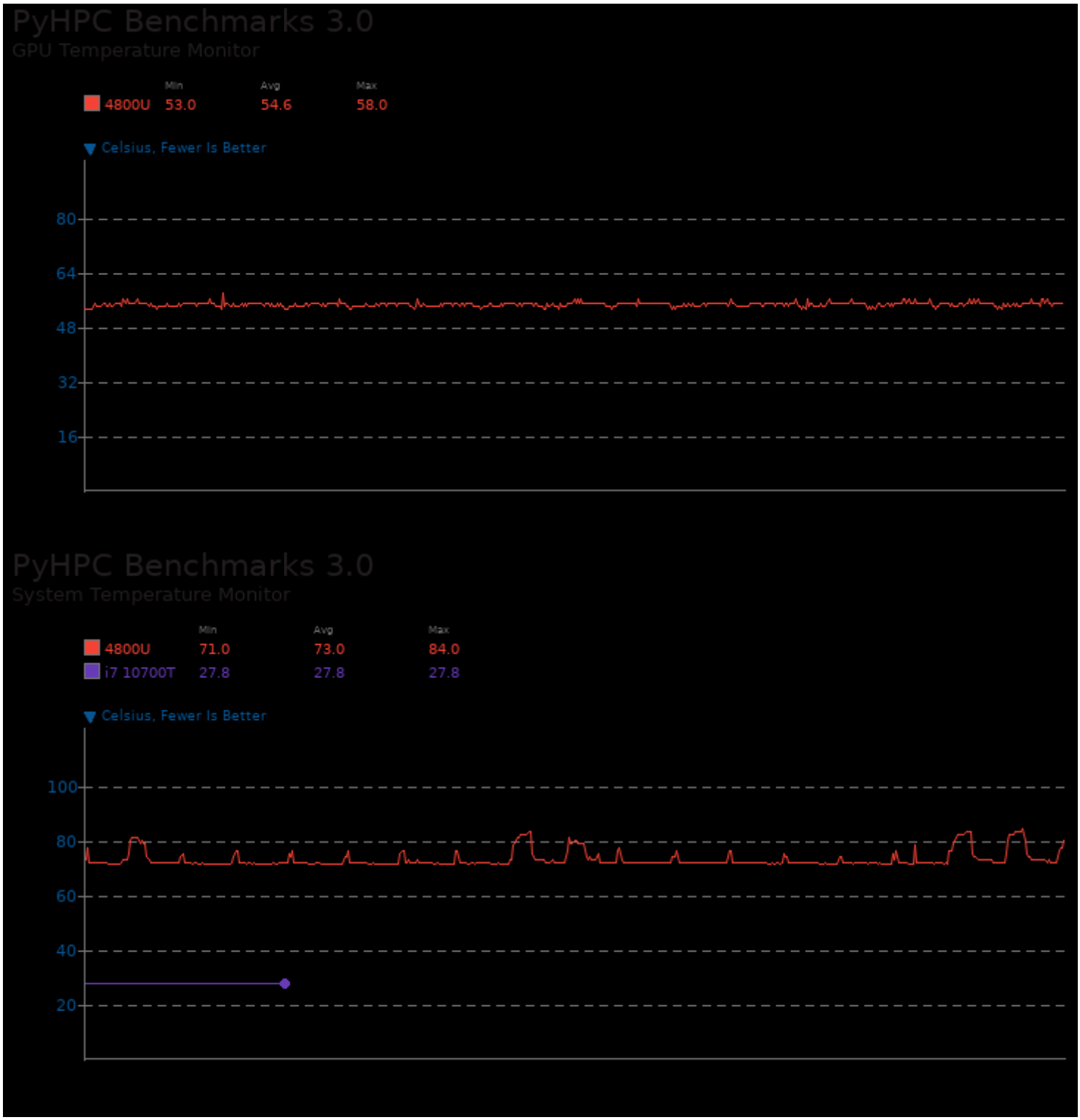

PyHPC Benchmarks 3.0
Device: CPU - Backend: Aesara - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
4800U
SE +/- 0.001, N = 3
0.323
i7 10700T
SE +/- 0.001, N = 3
0.382
0.086
0.172
0.258
0.344
0.43
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 55.0 85.5 97.1
i7 10700T 59.0 67.7 73.0
Celsius, Fewer Is Better
100
80
60
40
20

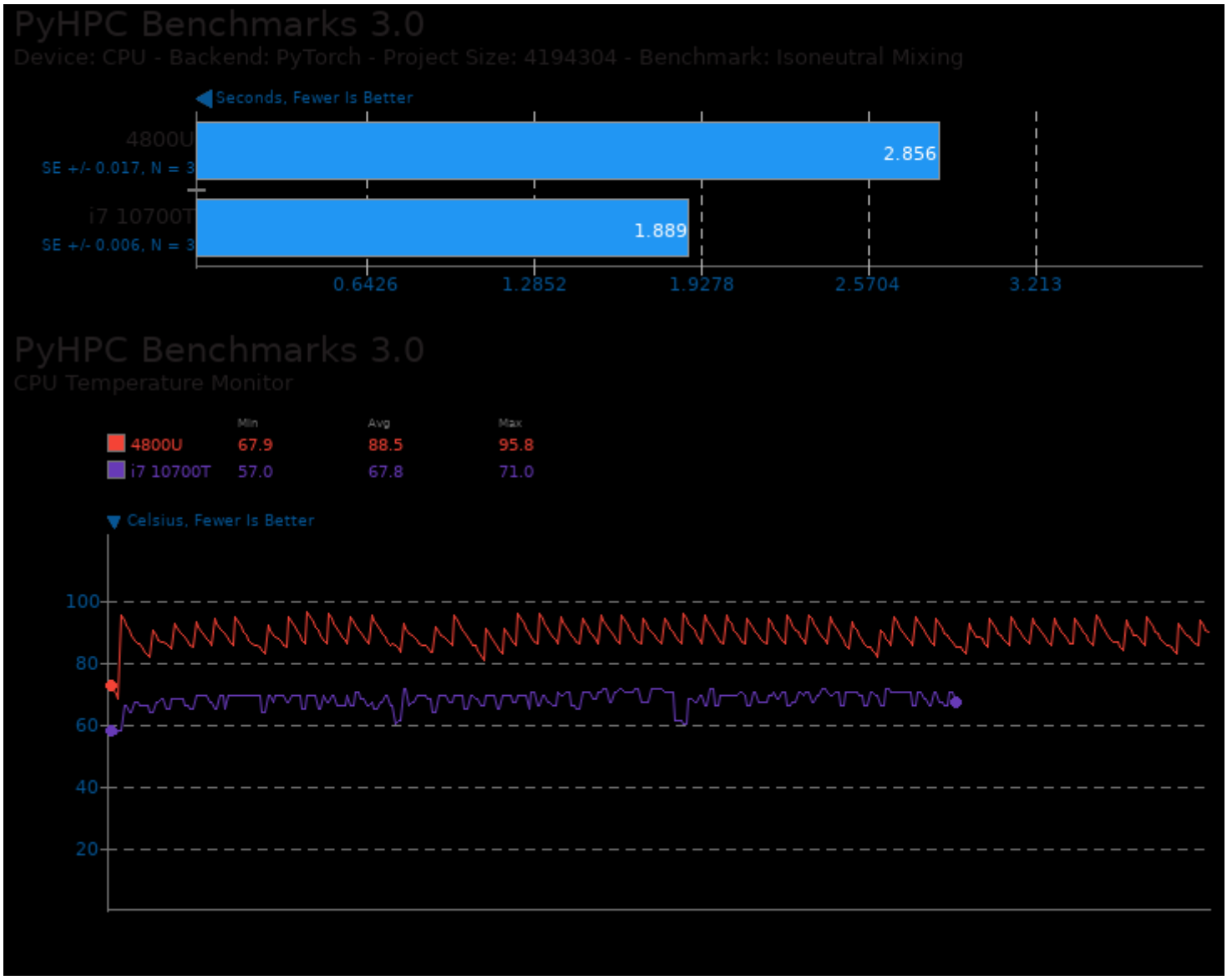

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 54.8 56.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 72.0 76.1 85.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

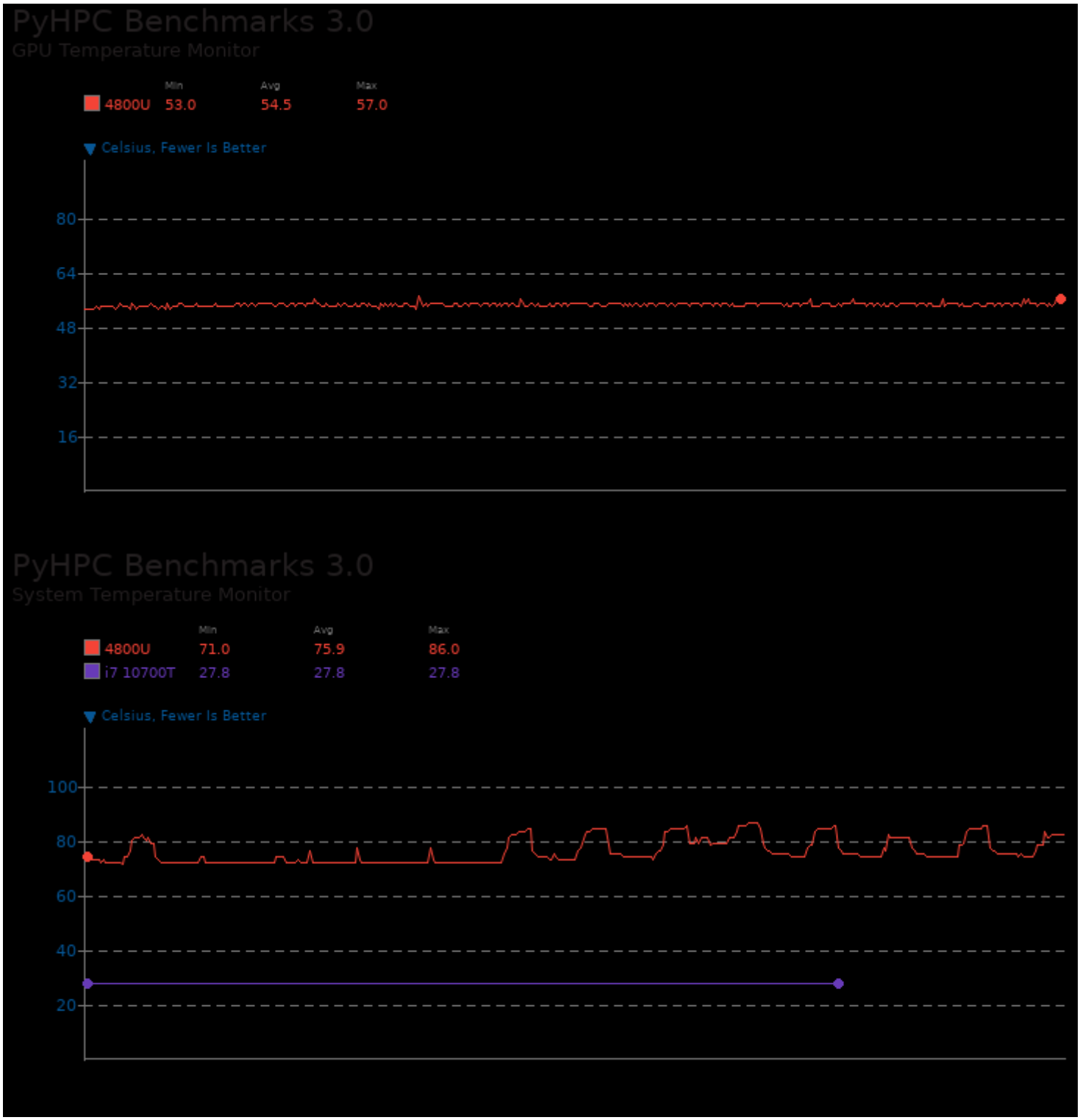

PyHPC Benchmarks 3.0
Device: CPU - Backend: Aesara - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
4800U
SE +/- 0.003, N = 3
2.382
i7 10700T
SE +/- 0.000, N = 3
1.982
0.536
1.072
1.608
2.144
2.68
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 67.0 84.4 96.8
i7 10700T 58.0 69.2 73.0
Celsius, Fewer Is Better
100
80
60
40
20


PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 52.0 54.6 56.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 70.0 73.7 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

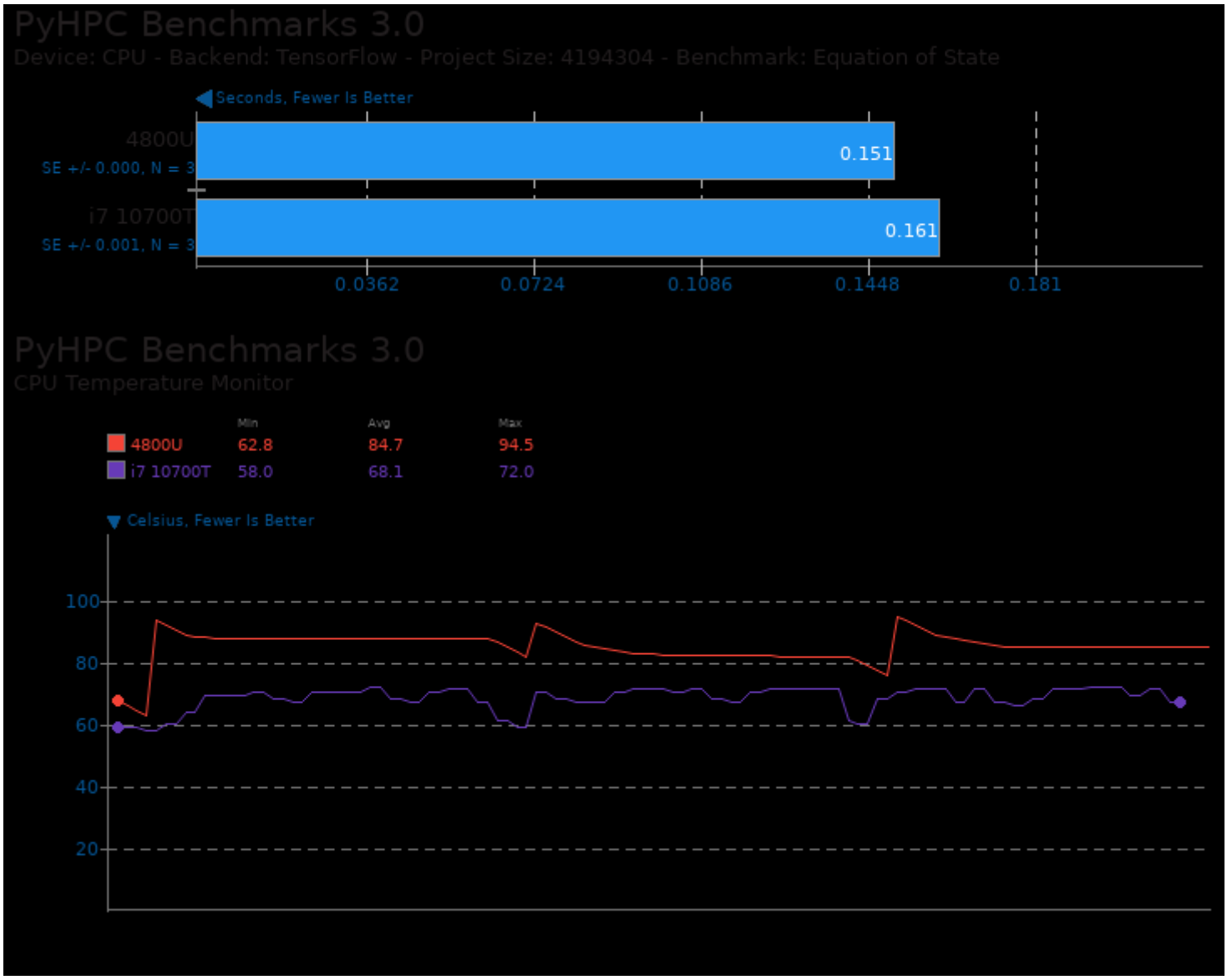

PyHPC Benchmarks 3.0
Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
4800U
SE +/- 0.001, N = 15
0.096
i7 10700T
SE +/- 0.000, N = 3
0.110
0.0248
0.0496
0.0744
0.0992
0.124
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 54.5 90.1 97.0
i7 10700T 58.0 68.8 73.0
Celsius, Fewer Is Better
100
80
60
40
20


PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 54.6 58.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 71.0 73.0 84.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

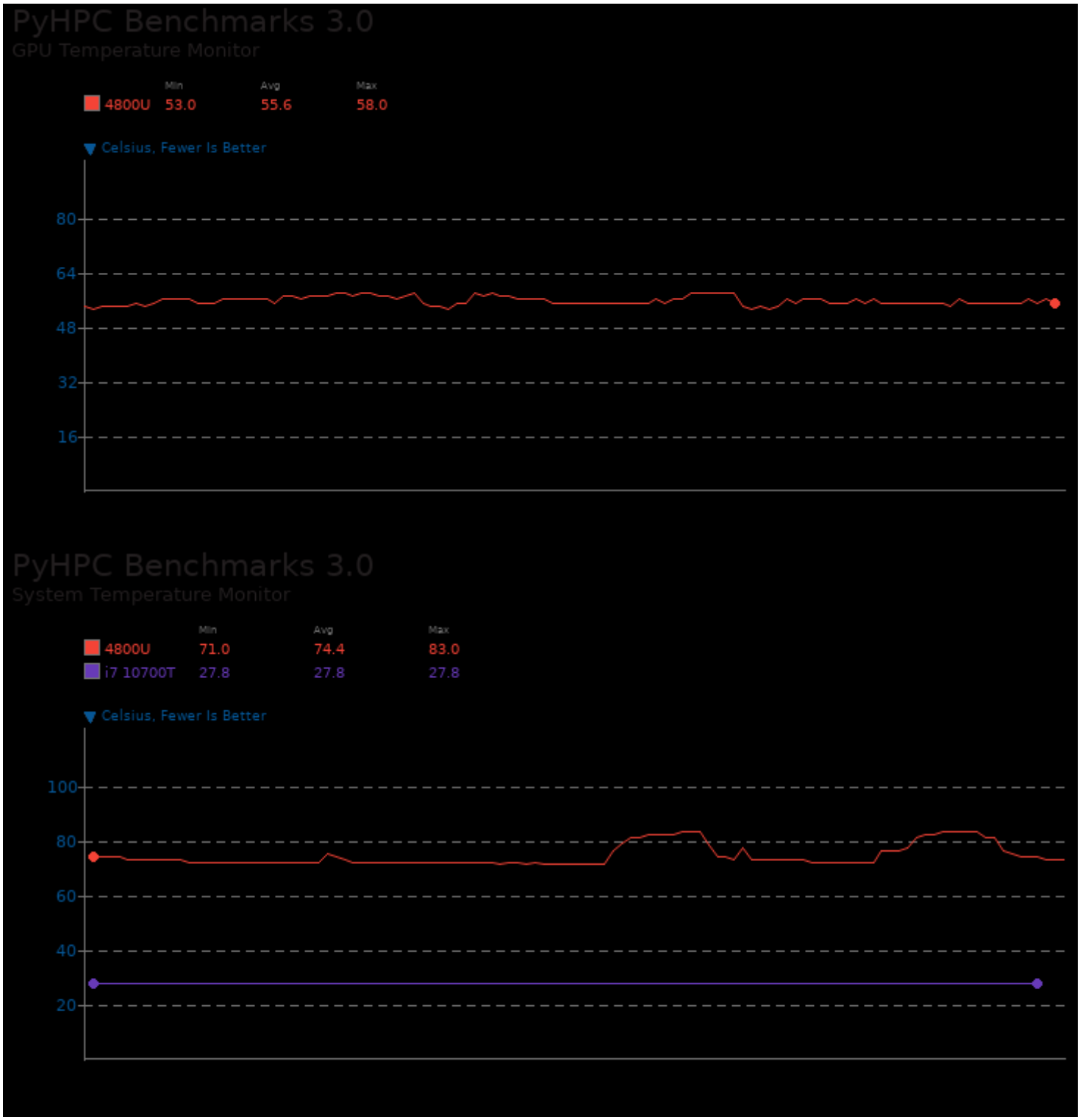

PyHPC Benchmarks 3.0
Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
4800U
SE +/- 0.017, N = 3
2.856
i7 10700T
SE +/- 0.006, N = 3
1.889
0.6426
1.2852
1.9278
2.5704
3.213
PyHPC Benchmarks 3.0
CPU Temperature Monitor
Min
Avg
Max
4800U 67.9 88.5 95.8
i7 10700T 57.0 67.8 71.0
Celsius, Fewer Is Better
100
80
60
40
20

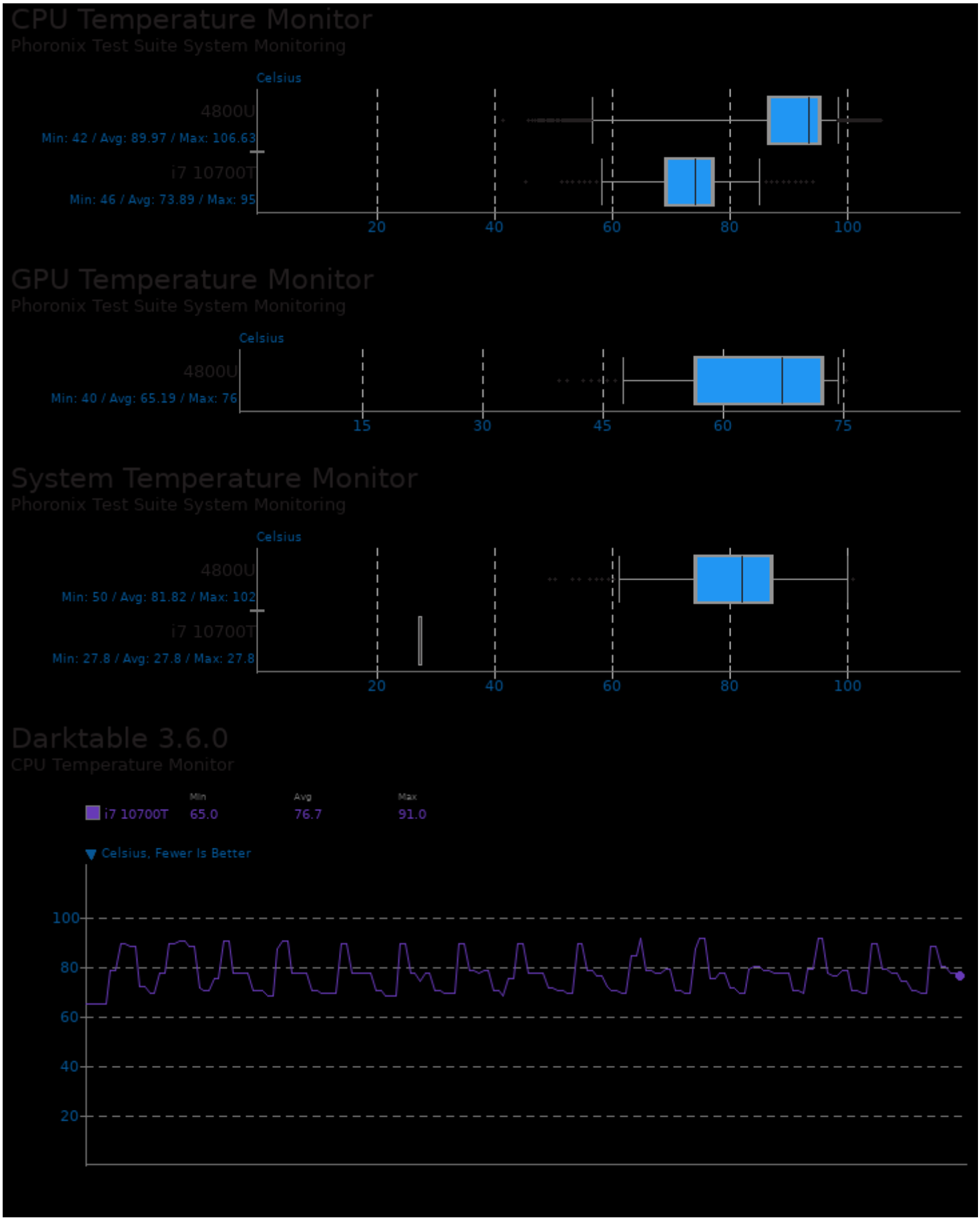

PyHPC Benchmarks 3.0
GPU Temperature Monitor
Min
Avg
Max
4800U 53.0 54.5 57.0
Celsius, Fewer Is Better
80
64
48
32
16
PyHPC Benchmarks 3.0
System Temperature Monitor
Min
Avg
Max
4800U 71.0 75.9 86.0
i7 10700T 27.8 27.8 27.8
Celsius, Fewer Is Better
100
80
60
40
20

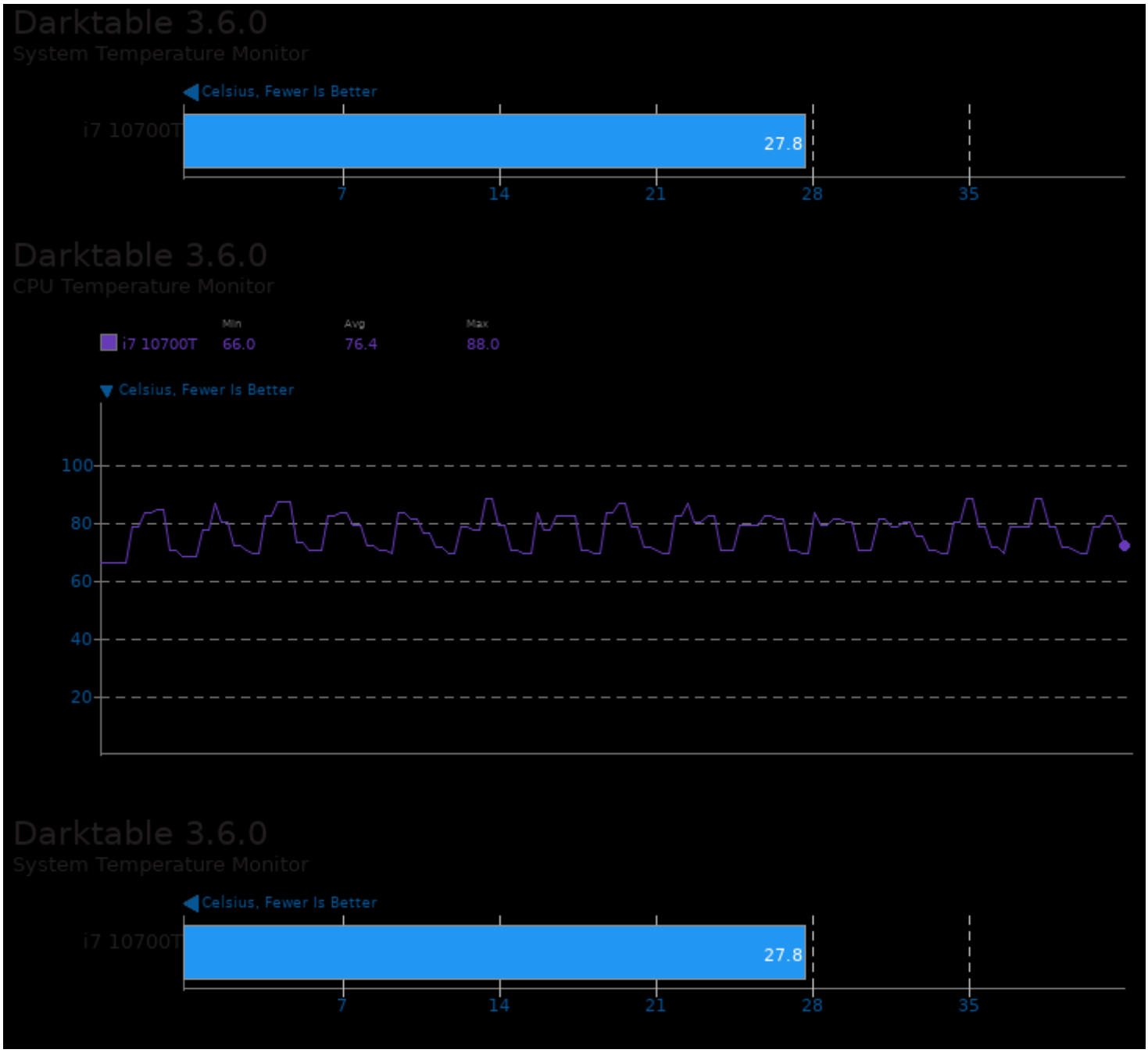
OnLogic Ryzen 4800U

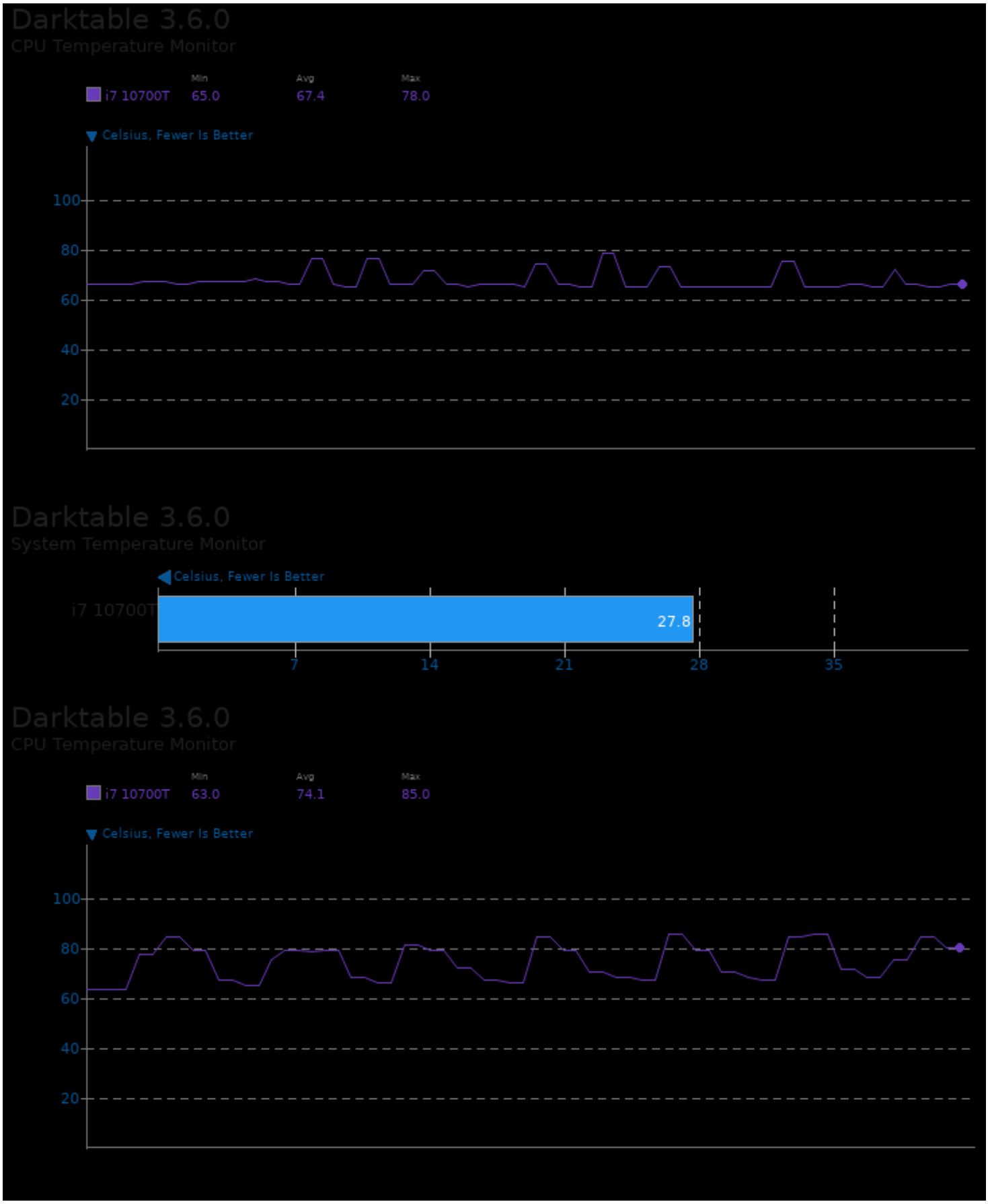


OnLogic Ryzen 4800U




CPU Temperature Monitor
Phoronix Test Suite System Monitoring
Celsius
4800U
Min: 42 / Avg: 89.97 / Max: 106.63
i7 10700T
Min: 46 / Avg: 73.89 / Max: 95
20
40
60
80
100
GPU Temperature Monitor
Phoronix Test Suite System Monitoring
Celsius
4800U
Min: 40 / Avg: 65.19 / Max: 76
15
30
45
60
75
System Temperature Monitor
Phoronix Test Suite System Monitoring
Celsius
4800U
Min: 50 / Avg: 81.82 / Max: 102
i7 10700T
Min: 27.8 / Avg: 27.8 / Max: 27.8
20
40
60
80
100
Darktable 3.6.0
CPU Temperature Monitor
Min
Avg
Max
i7 10700T
65.0
76.7
91.0
Celsius, Fewer Is Better
100
80
60
40
20


Darktable 3.6.0
System Temperature Monitor
Celsius, Fewer Is Better
i7 10700T
27.8
7
14
21
28
35
Darktable 3.6.0
CPU Temperature Monitor
Min
Avg
Max
i7 10700T
66.0
76.4
88.0
Celsius, Fewer Is Better
100
80
60
40
20
Darktable 3.6.0
System Temperature Monitor
Celsius, Fewer Is Better
i7 10700T
27.8
7
14
21
28
35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CPU Temperature Monitor
Min
Avg
Max
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67.4
78.0
Celsius, Fewer Is Better
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80
60
40
20
Darktable 3.6.0
System Temperature Monitor
Celsius, Fewer Is Better
i7 10700T
27.8
7
14
21
28
35
Darktable 3.6.0
CPU Temperature Monitor
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Avg
Max
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85.0
Celsius, Fewer Is Better
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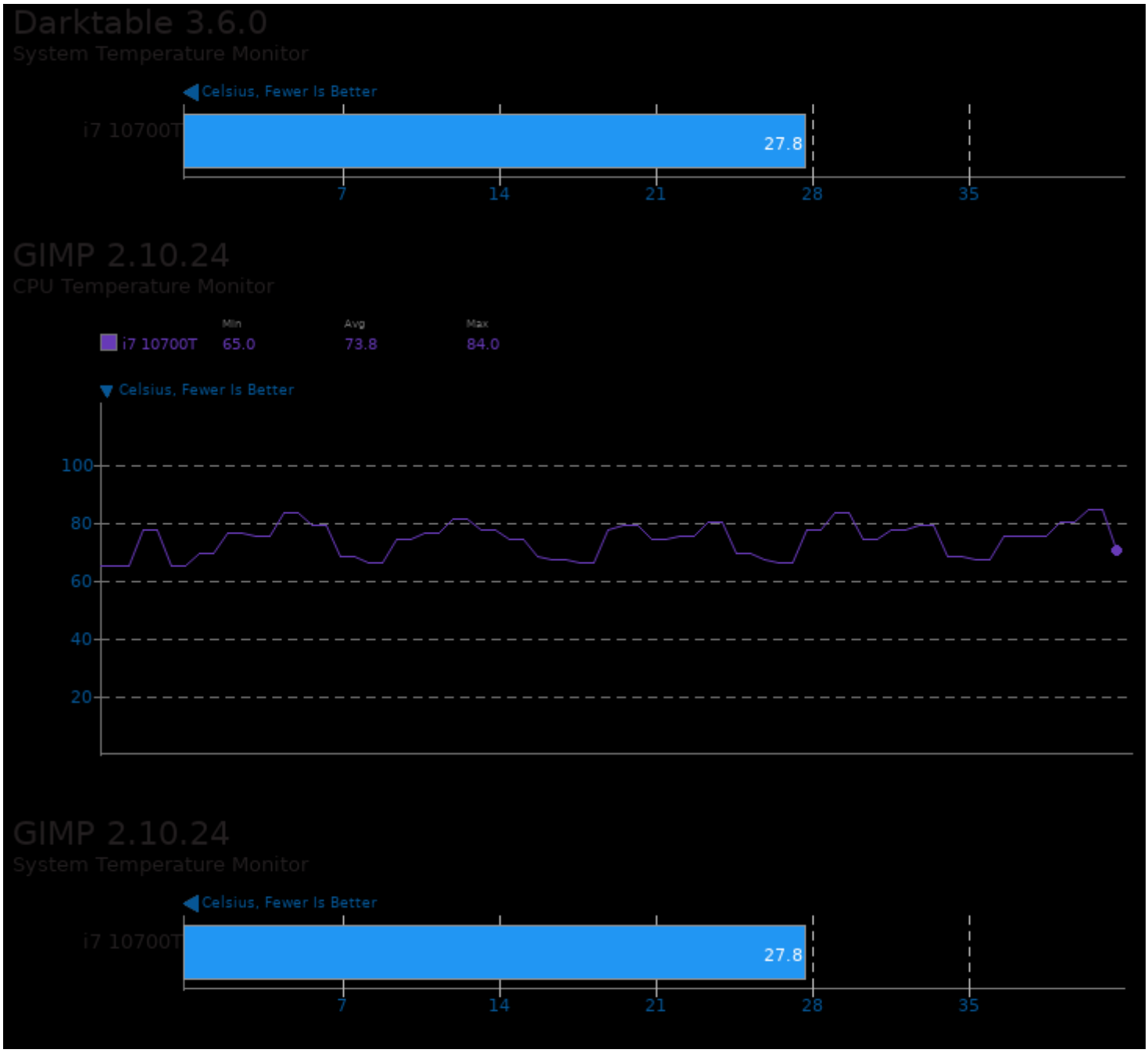
20


Darktable 3.6.0
System Temperature Monitor
Celsius, Fewer Is Better
i7 10700T
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7
14
21
28
35
GIMP 2.10.24
CPU Temperature Monitor
Min
Avg
Max
i7 10700T
65.0
73.8
84.0
Celsius, Fewer Is Better
100
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GIMP 2.10.24
System Temperature Monitor
Celsius, Fewer Is Better
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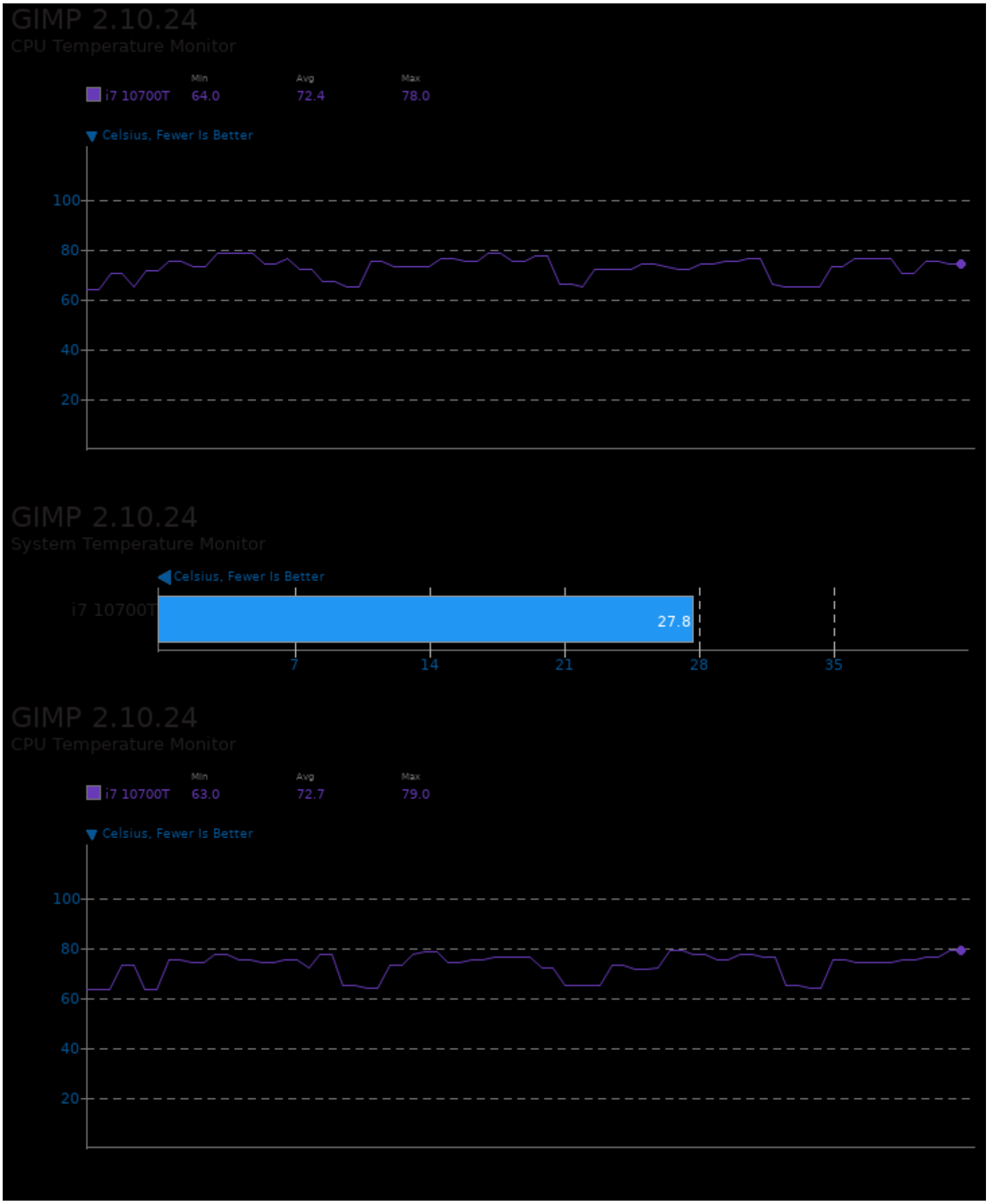
GIMP 2.10.24
CPU Temperature Monitor
Min
Avg
Max
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72.4
78.0
Celsius, Fewer Is Better
100
80
60
40
20
GIMP 2.10.24
System Temperature Monitor
Celsius, Fewer Is Better
i7 10700T
27.8
7
14
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28
35
GIMP 2.10.24
CPU Temperature Monitor
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Max
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79.0
Celsius, Fewer Is Better
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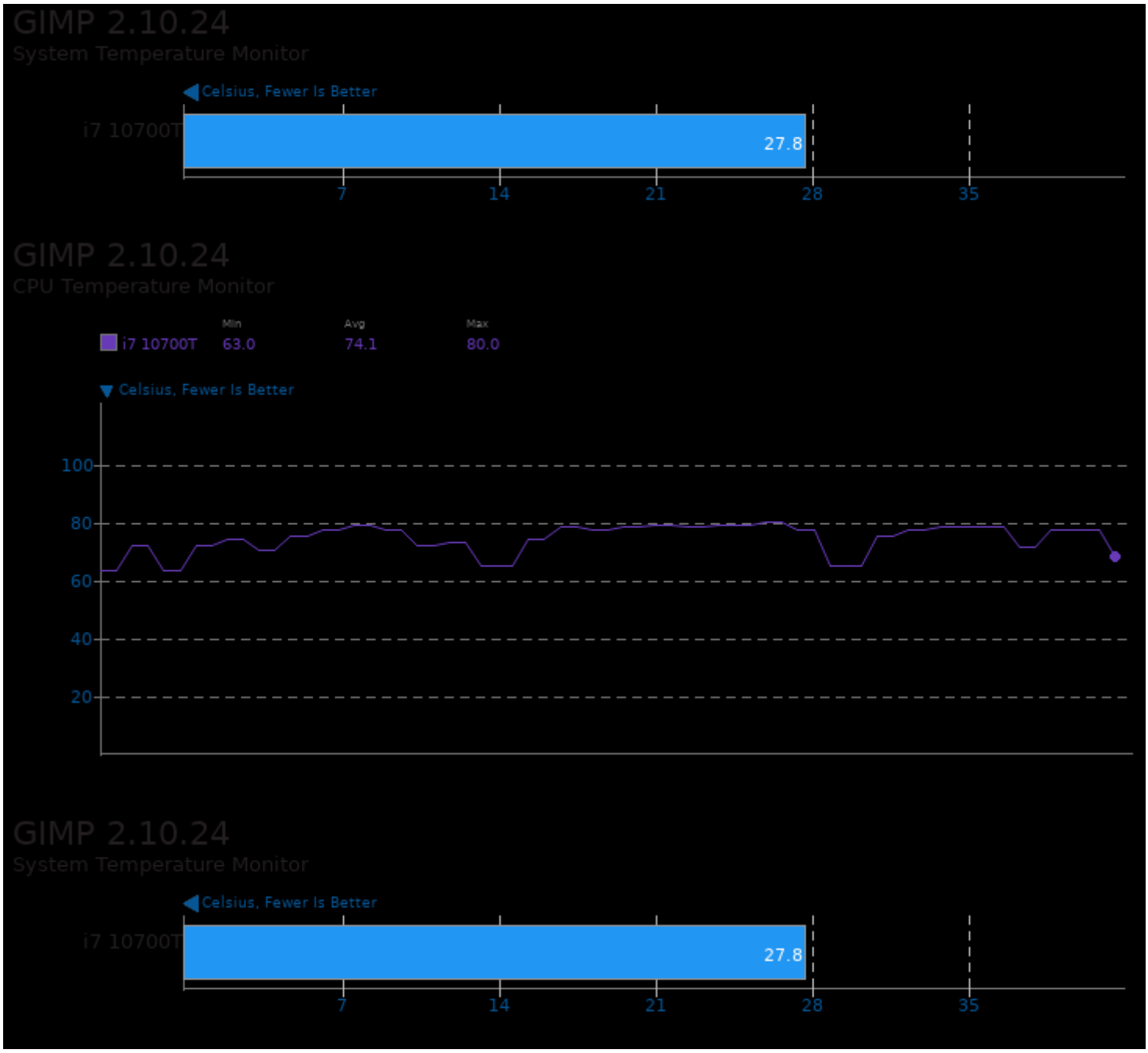
GIMP 2.10.24
System Temperature Monitor
Celsius, Fewer Is Better
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GIMP 2.10.24
CPU Temperature Monitor
Min
Avg
Max
i7 10700T
63.0
74.1
80.0
Celsius, Fewer Is Better
100
80
60
40
20
GIMP 2.10.24
System Temperature Monitor
Celsius, Fewer Is Better
i7 10700T
27.8
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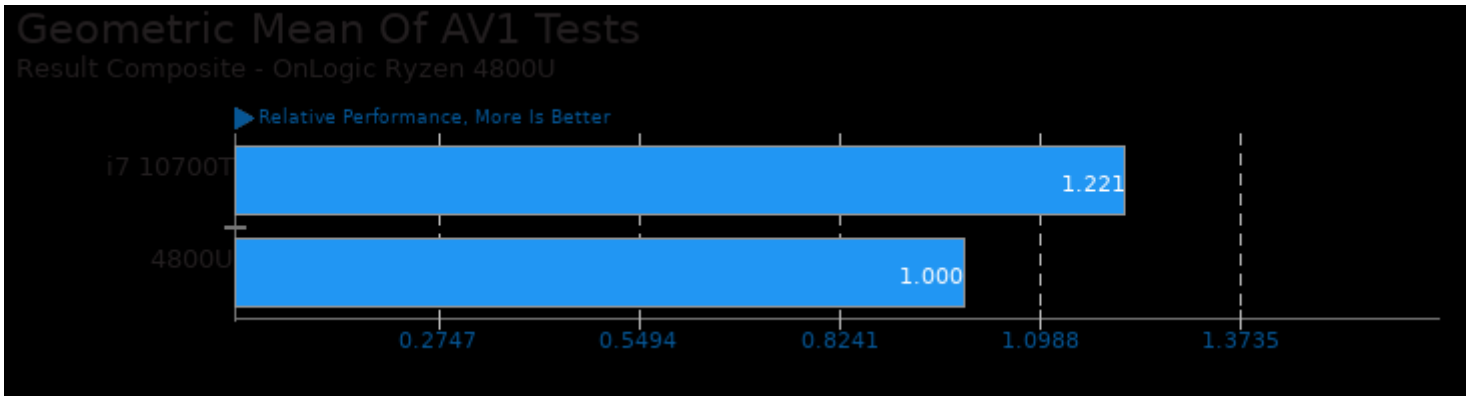
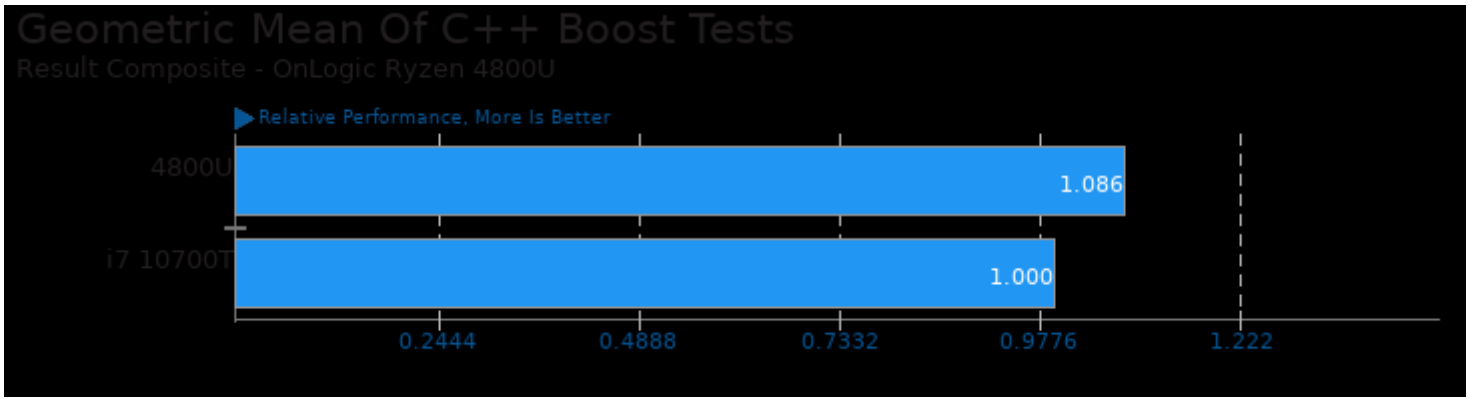
35

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

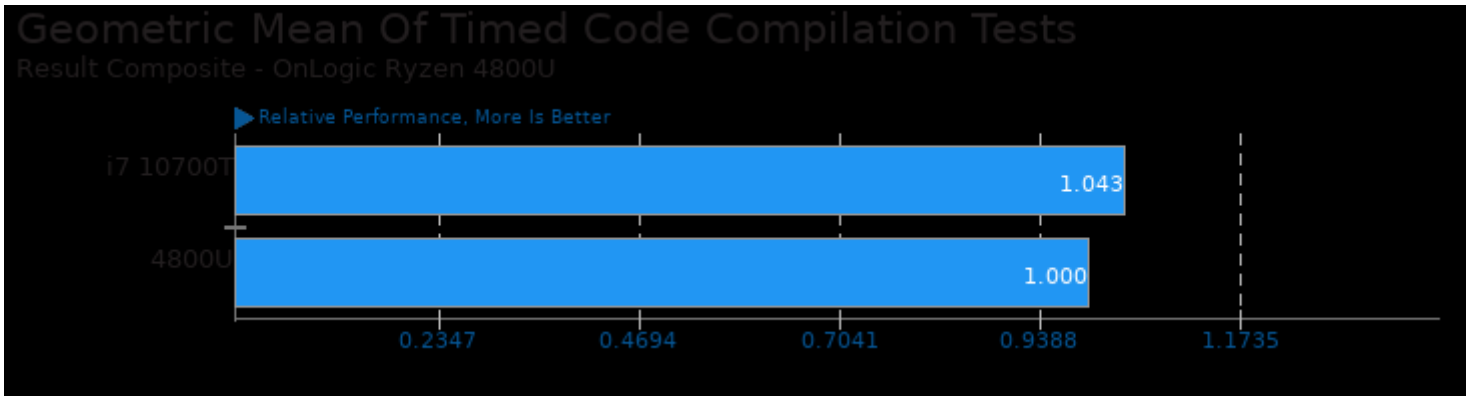


Geometric mean based upon tests: pts/aom-av1, pts/svt-av1, pts/rav1e and pts/avifenc

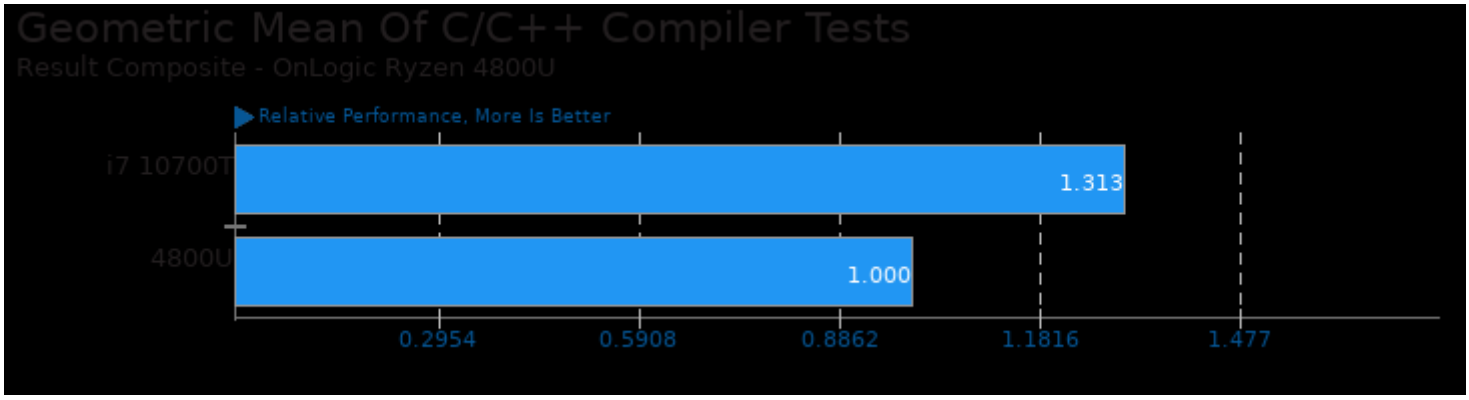


Geometric mean based upon tests: pts/quantlib and pts/srsran

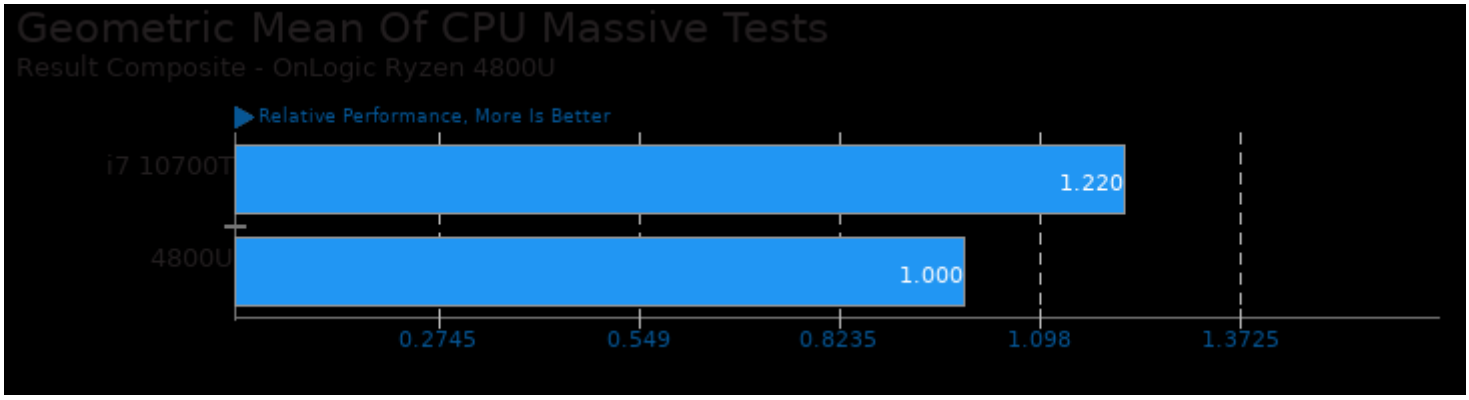
Geometric mean based upon tests: system/selenium



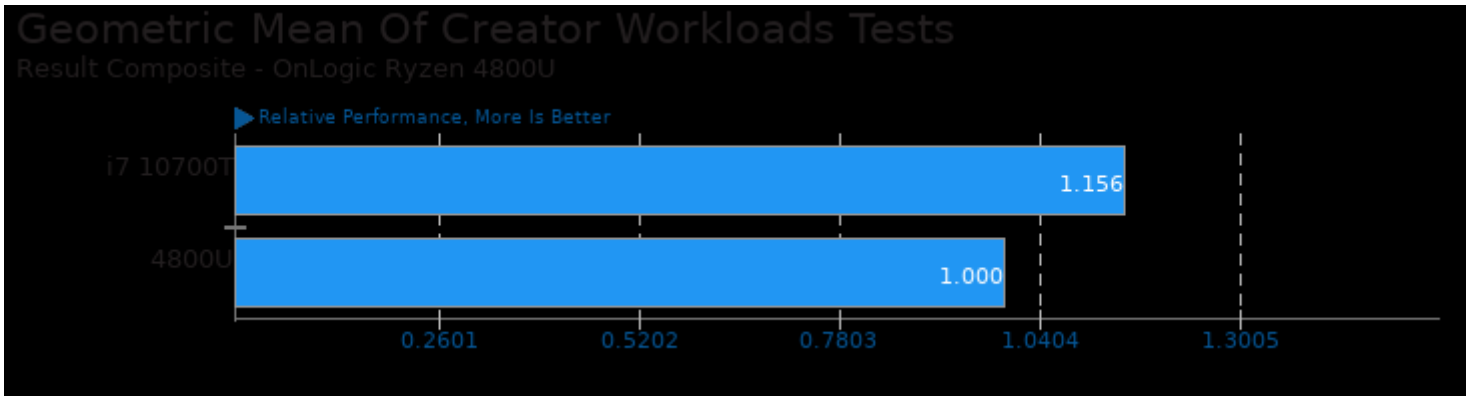
Geometric mean based upon tests: pts/build-linux-kernel, pts/build-gdb, pts/build-llvm and pts/build-wasmer



Geometric mean based upon tests: pts/build-llvm, pts/apache, pts/sqlite-speedtest, pts/nginx, pts/aom-av1, pts/svt-av1, pts/svt-vp9, pts/build-gdb, pts/tachyon and pts/basis

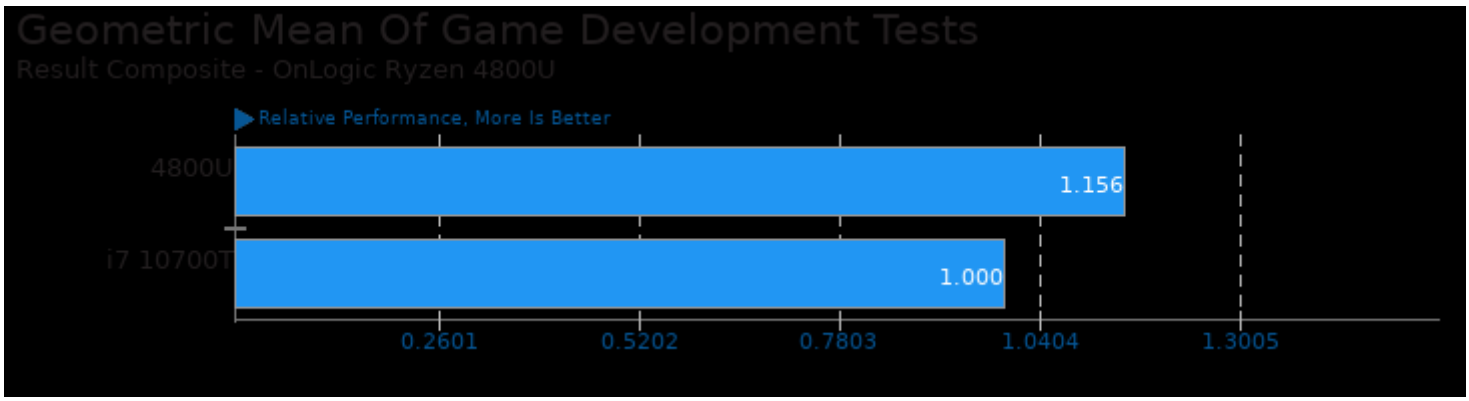


Geometric mean based upon tests: pts/apache, pts/build-llvm, pts/build-linux-kernel, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/nginx, pts/phpbench, pts/tachyon, pts/blender and system/darktable

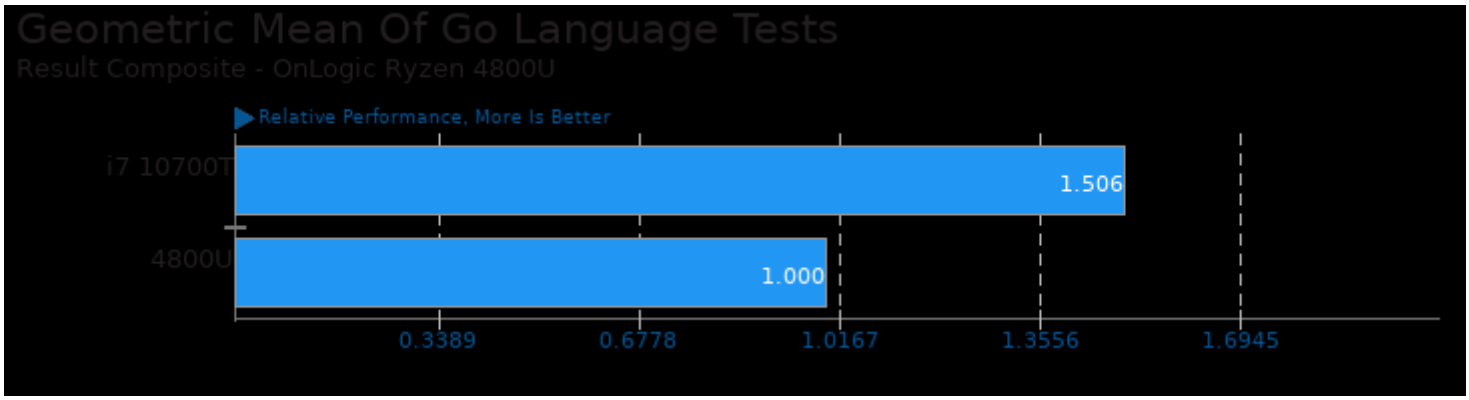


Geometric mean based upon tests: pts/tachyon, pts/blender, pts/svt-vp9, pts/svt-hevc, pts/aom-av1, pts/svt-av1, pts/rav1e, pts/avifenc, pts/webp, pts/jpegxl, system/rawtherapee, system/gimp, system/darktable, pts/basis and pts/draco

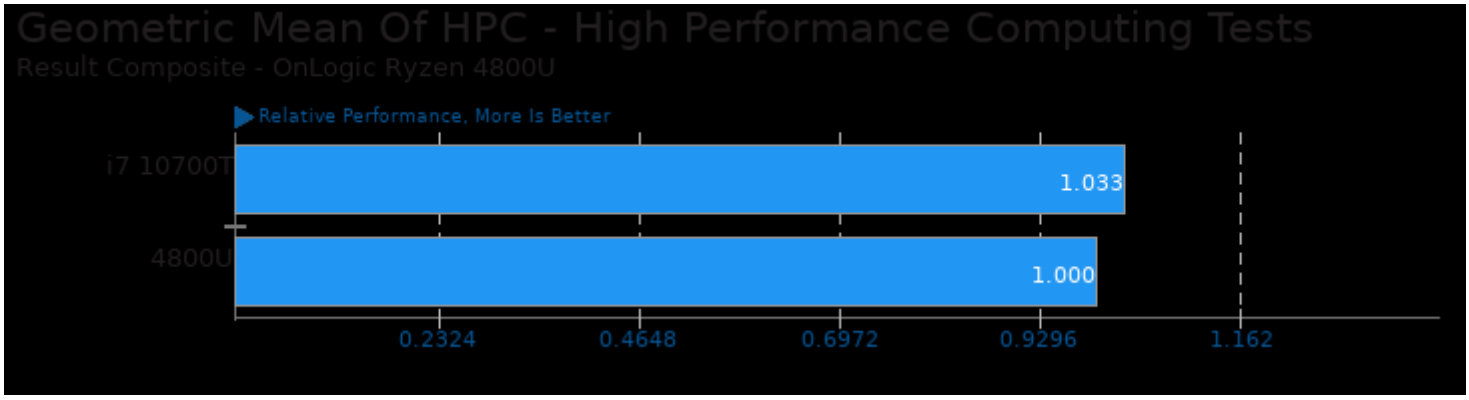
Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/aom-av1, pts/svt-av1, pts/rav1e and pts/avifenc



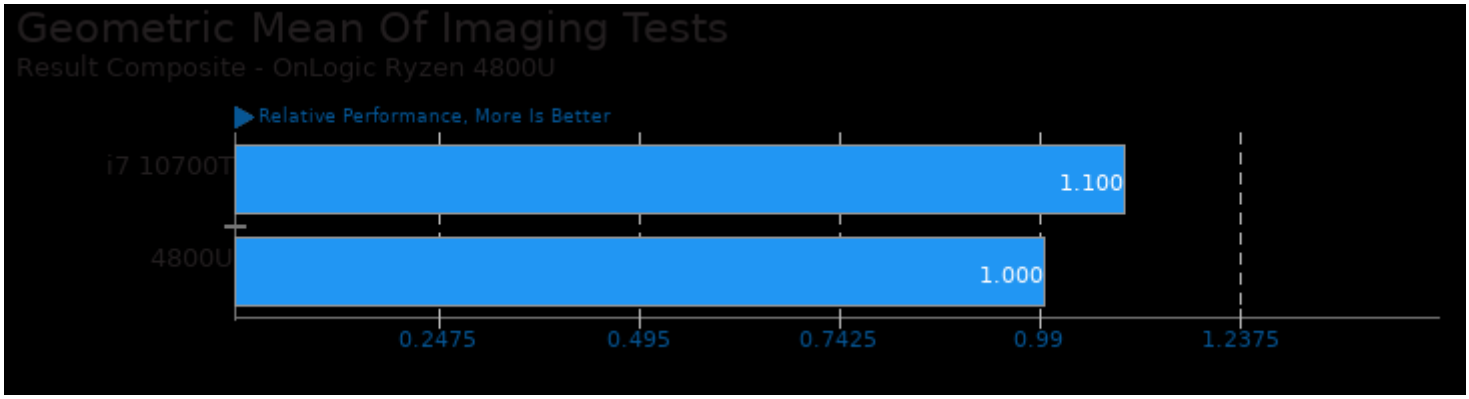
Geometric mean based upon tests: pts/basis, pts/draco and pts/blender



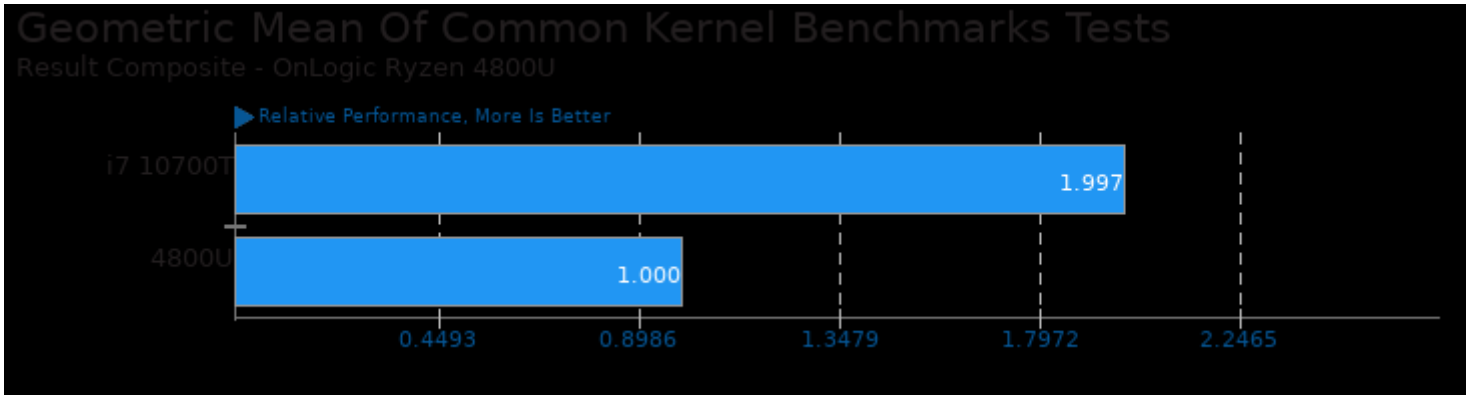
Geometric mean based upon tests: pts/nginx and pts/apache



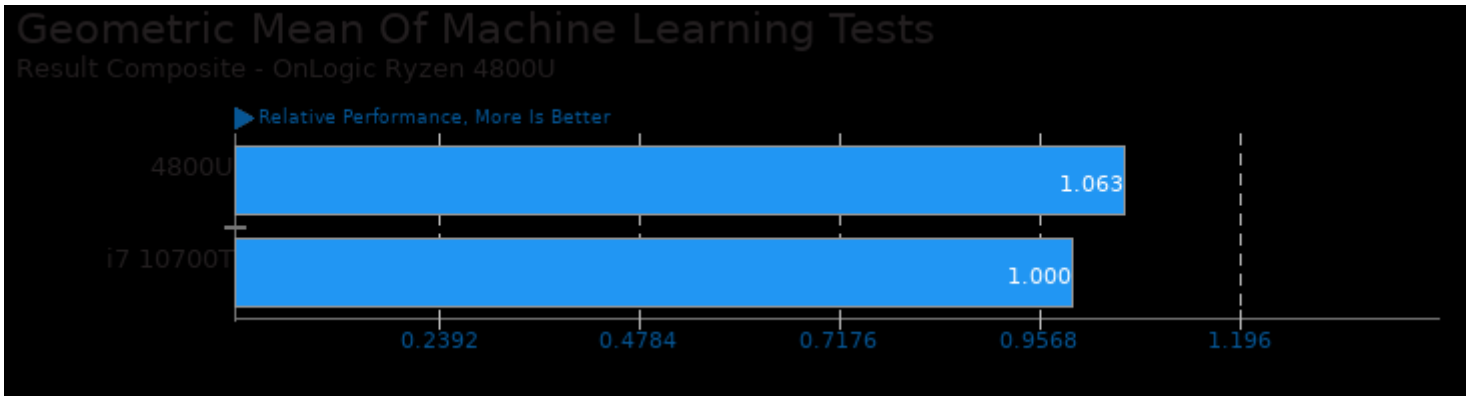
Geometric mean based upon tests: pts/mnn, pts/tnn, pts/tensorflow-lite, pts/onnx and pts/pyhpc



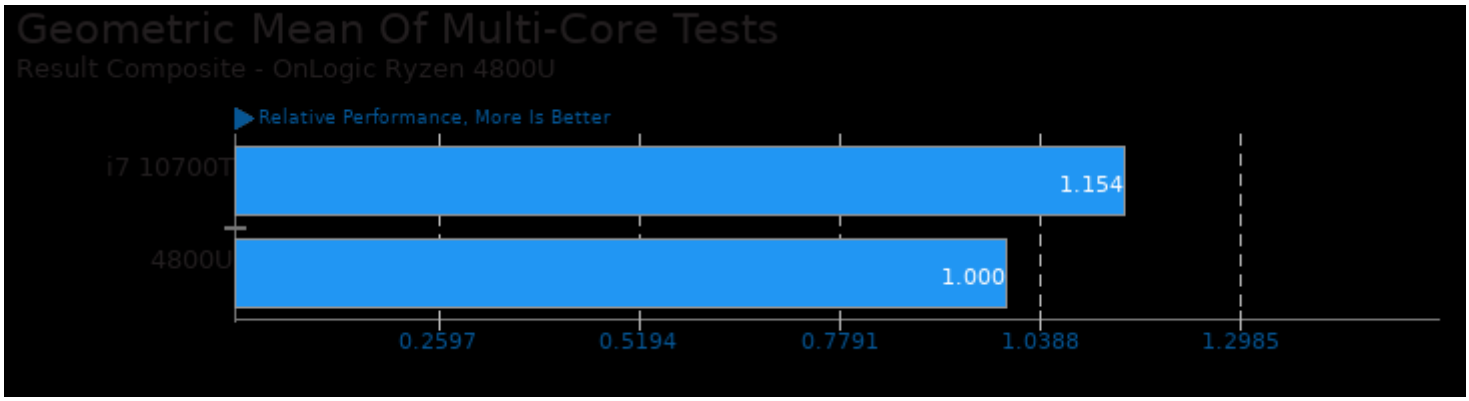
Geometric mean based upon tests: pts/webp, pts/jpegxl, system/rawtherapee, system/gimp, system/darktable and pts/avifenc



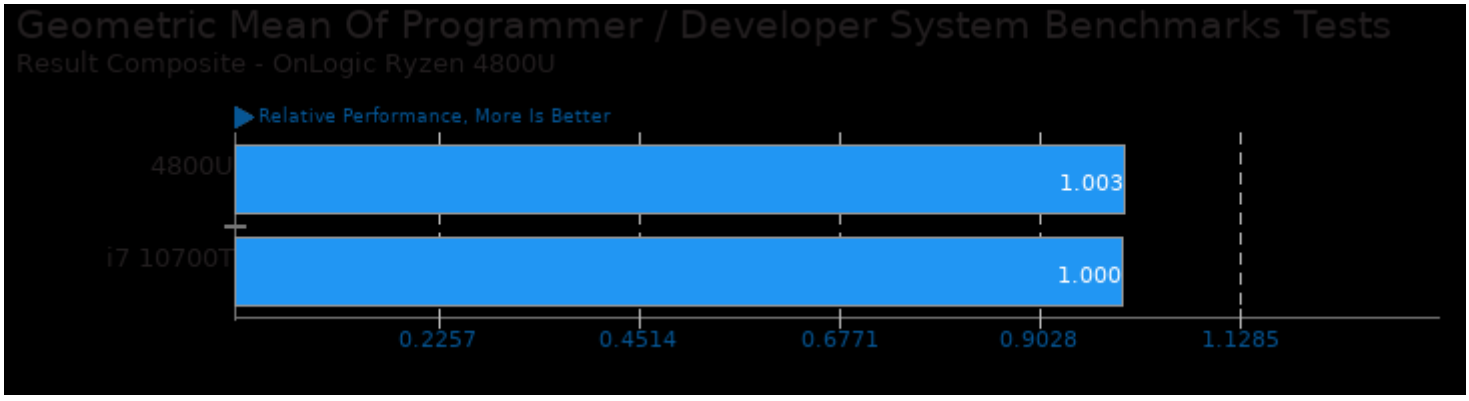
Geometric mean based upon tests: pts/apache and pts/sqlite-speedtest



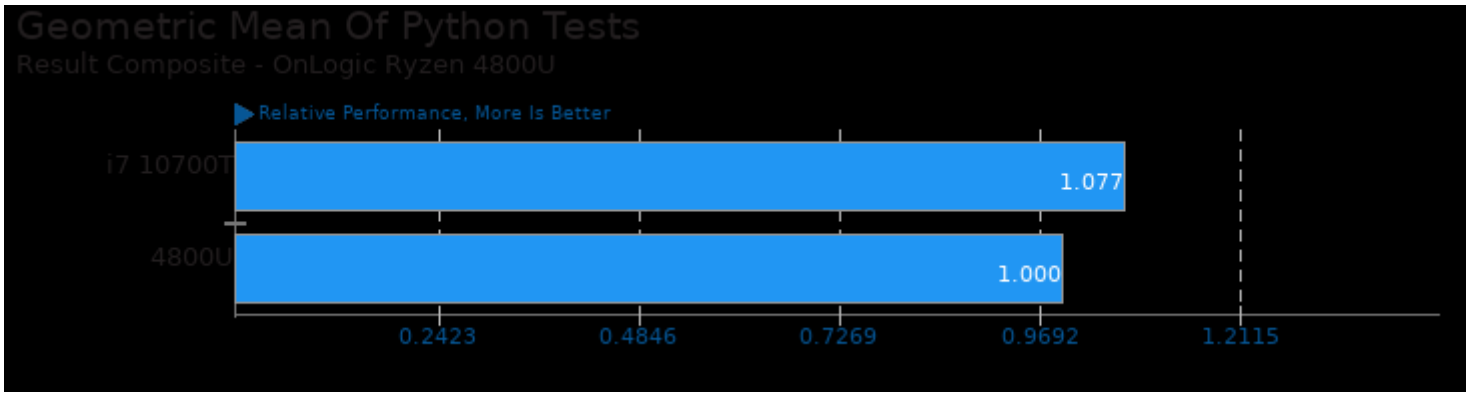
Geometric mean based upon tests: pts/mnn, pts/tnn, pts/tensorflow-lite and pts/onnx



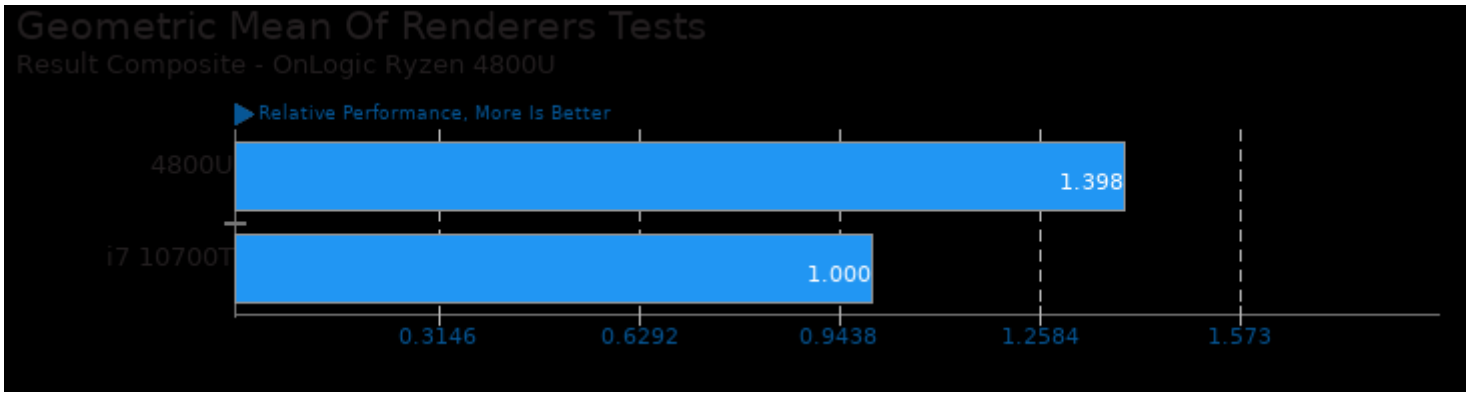
Geometric mean based upon tests: pts/blender, pts/tachyon, pts/svt-vp9, pts/svt-hevc, pts/aom-av1, pts/svt-av1, pts/rav1e, pts/avifenc, pts/build-linux-kernel, pts/build-gdb, pts/build-llvm and pts/build-wasmer



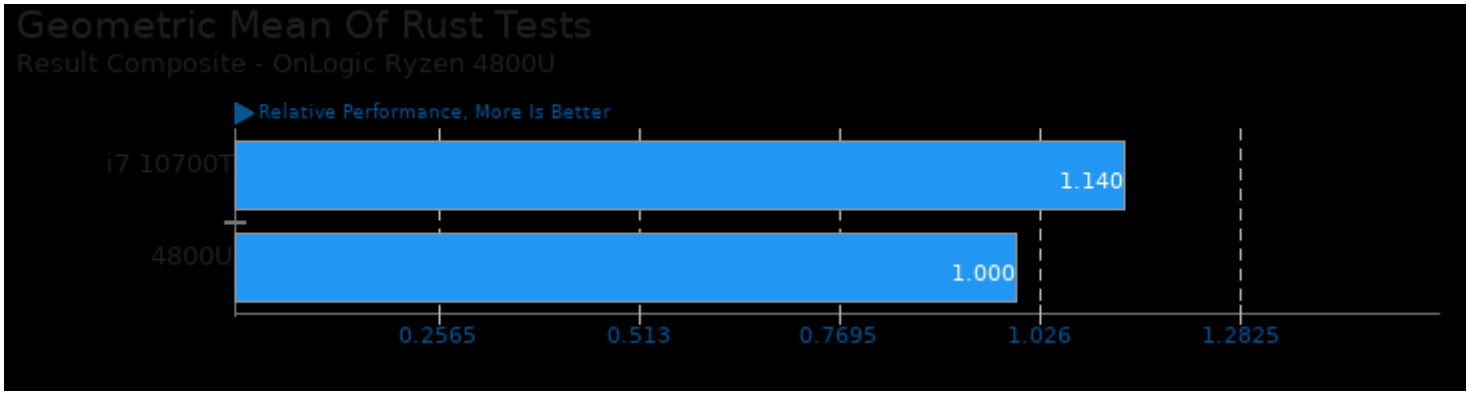
Geometric mean based upon tests: pts/sqlite-speedtest, pts/pyperformance, pts/pybench, pts/build-linux-kernel, pts/build-gdb, pts/build-llvm and pts/build-wasmer



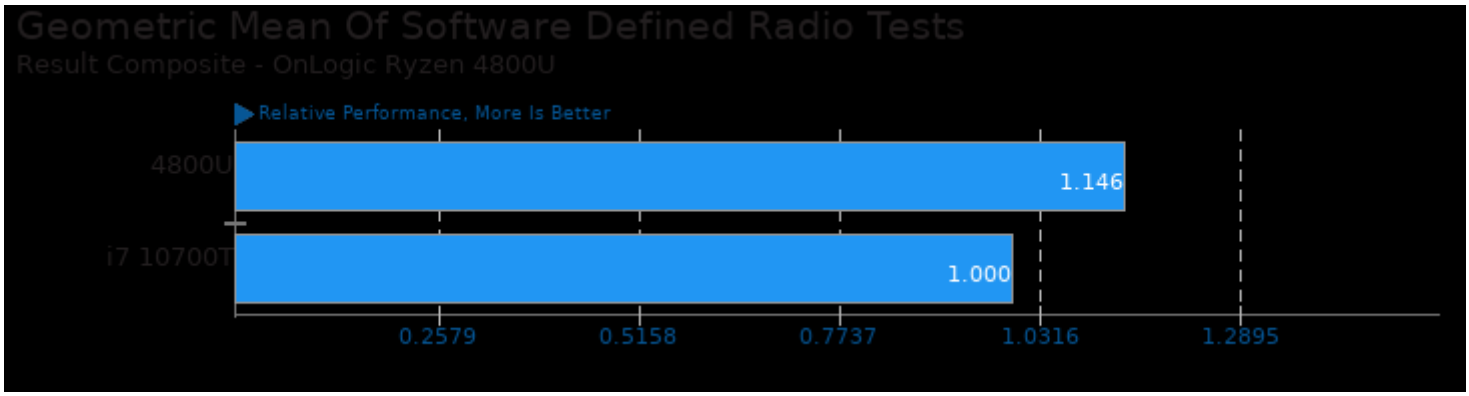
Geometric mean based upon tests: pts/pybench, pts/pyperformance and pts/pyhpc



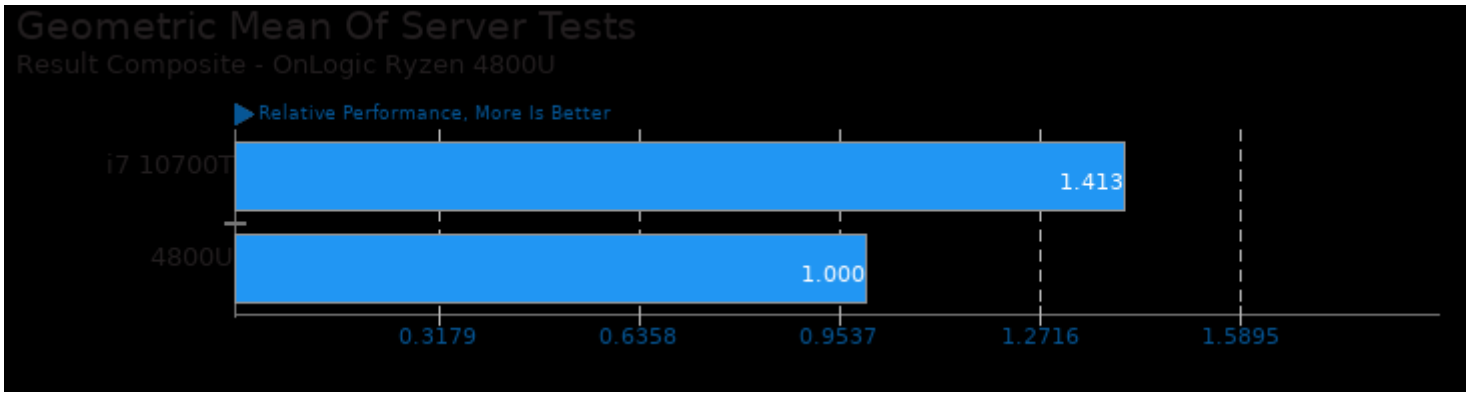
Geometric mean based upon tests: pts/tachyon and pts/blender



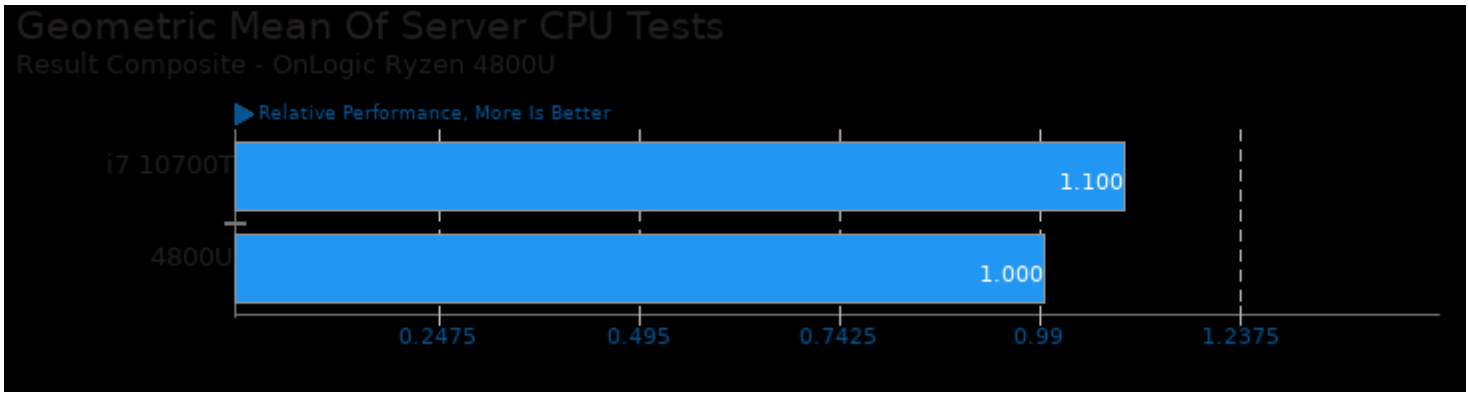
Geometric mean based upon tests: pts/rav1e and pts/build-wasmer



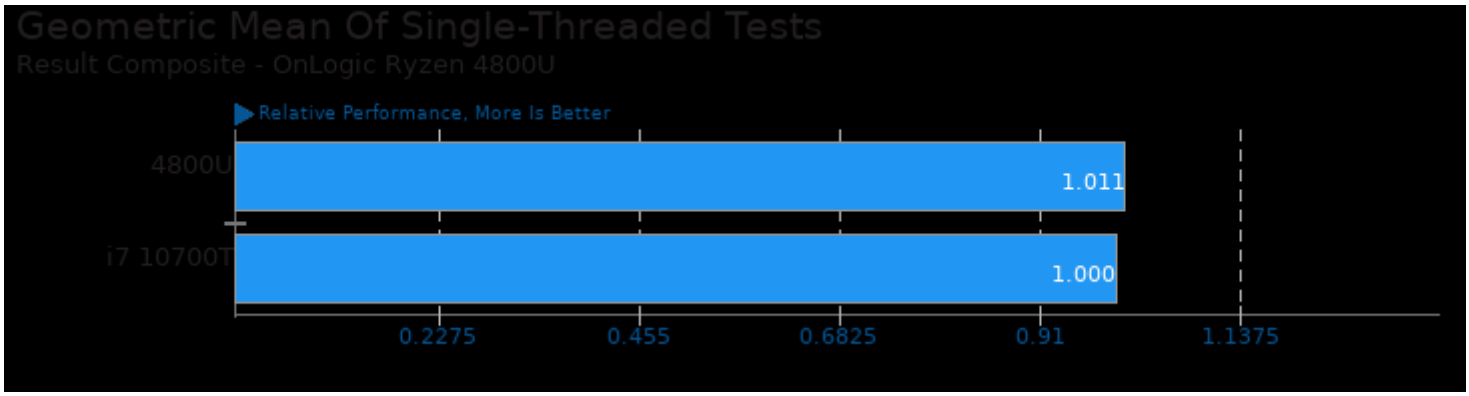
Geometric mean based upon tests: pts/liquid-dsp and pts/srsran



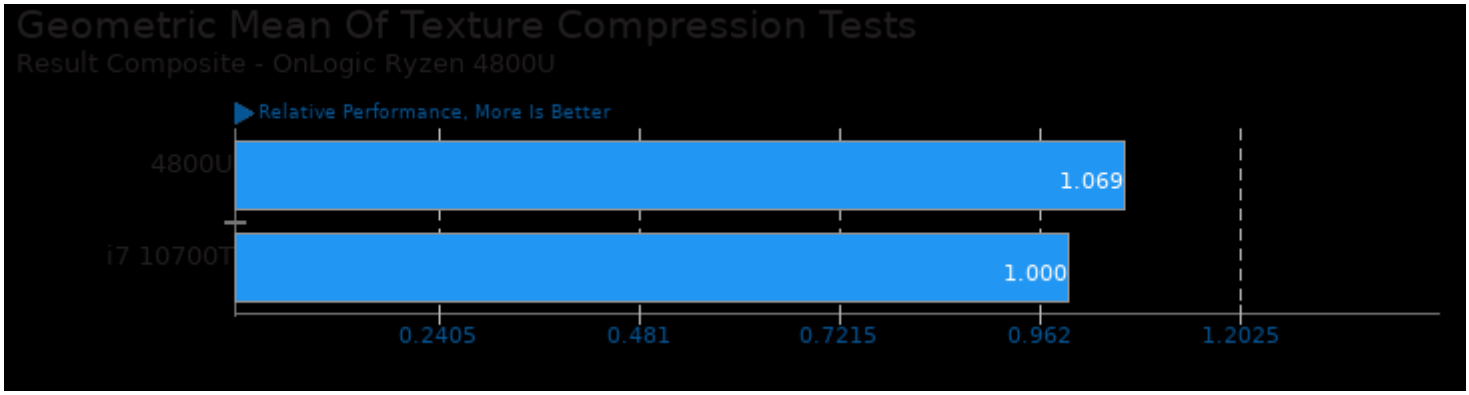
Geometric mean based upon tests: pts/apache, pts/nginx, pts/phpbench and pts/sqlite-speedtest



Geometric mean based upon tests: pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/build-linux-kernel, pts/build-llvm, system/gimp, pts/blender, pts/pybench and pts/phpbench

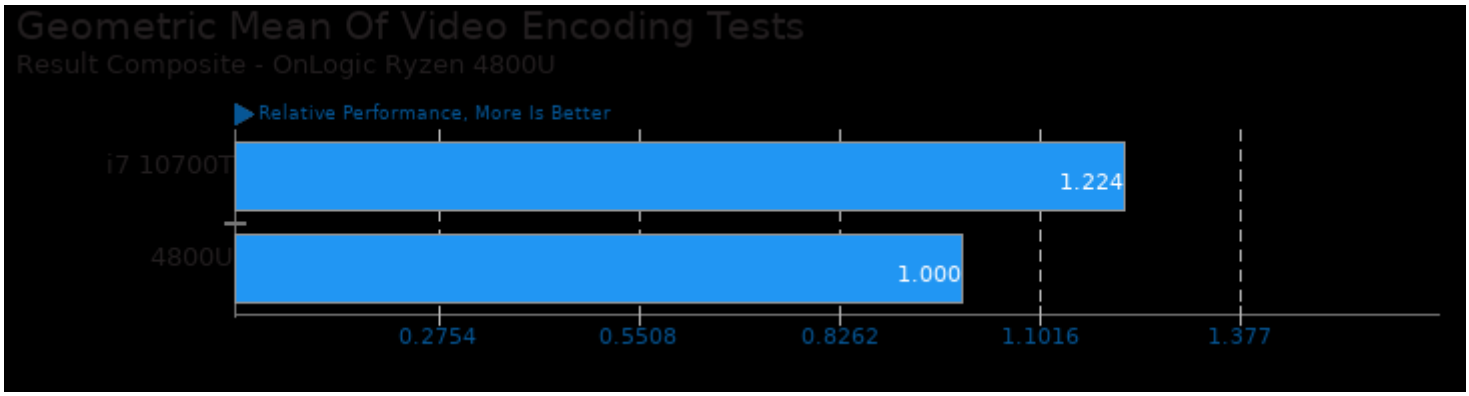


Geometric mean based upon tests: pts/pybench, pts/phpbench and pts/nginx

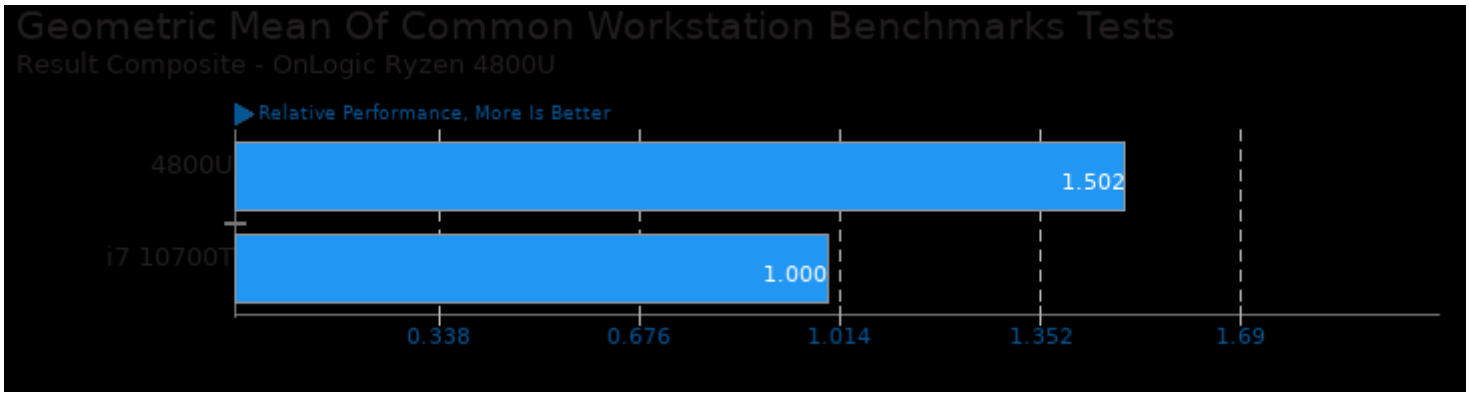


Geometric mean based upon tests: pts/basis and pts/draco

OnLogic Ryzen 4800U



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/aom-av1, pts/svt-av1, pts/rav1e and pts/avifenc



Geometric mean based upon tests: pts/blender and pts/paraview

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:29.