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blender-all-cpu

Intel Xeon X5550 testing with a Dell 0D881F (A18 BIOS) and ASUS AMD Radeon RX 470/480/570/570X/580/580X/590 4GB on Ubuntu 19.10 via the Phoronix Test Suite.

Test Systems:

e7450

Processor: Intel Core i7-5600U @ 3.20GHz (2 Cores / 4 Threads), Motherboard: Dell 06HN6G (A20 BIOS), Chipset: Intel Broadwell-U-OPI, Memory: 16384MB, Disk: 512GB SAMSUNG SSD PM87, Graphics: Intel HD 5500 3GB (950MHz), Audio: Intel Broadwell-U Audio, Network: Intel I218-LM + Intel 7265

OS: Ubuntu 19.04, Kernel: 5.0.0-32-generic (x86_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 19.0.8, OpenCL: OpenCL 2.1, Vulkan: 1.1.96, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: iwlwifi.power_save=1
Processor Notes: Scaling Governor: intel_pstate performance
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation

of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

old-4cores

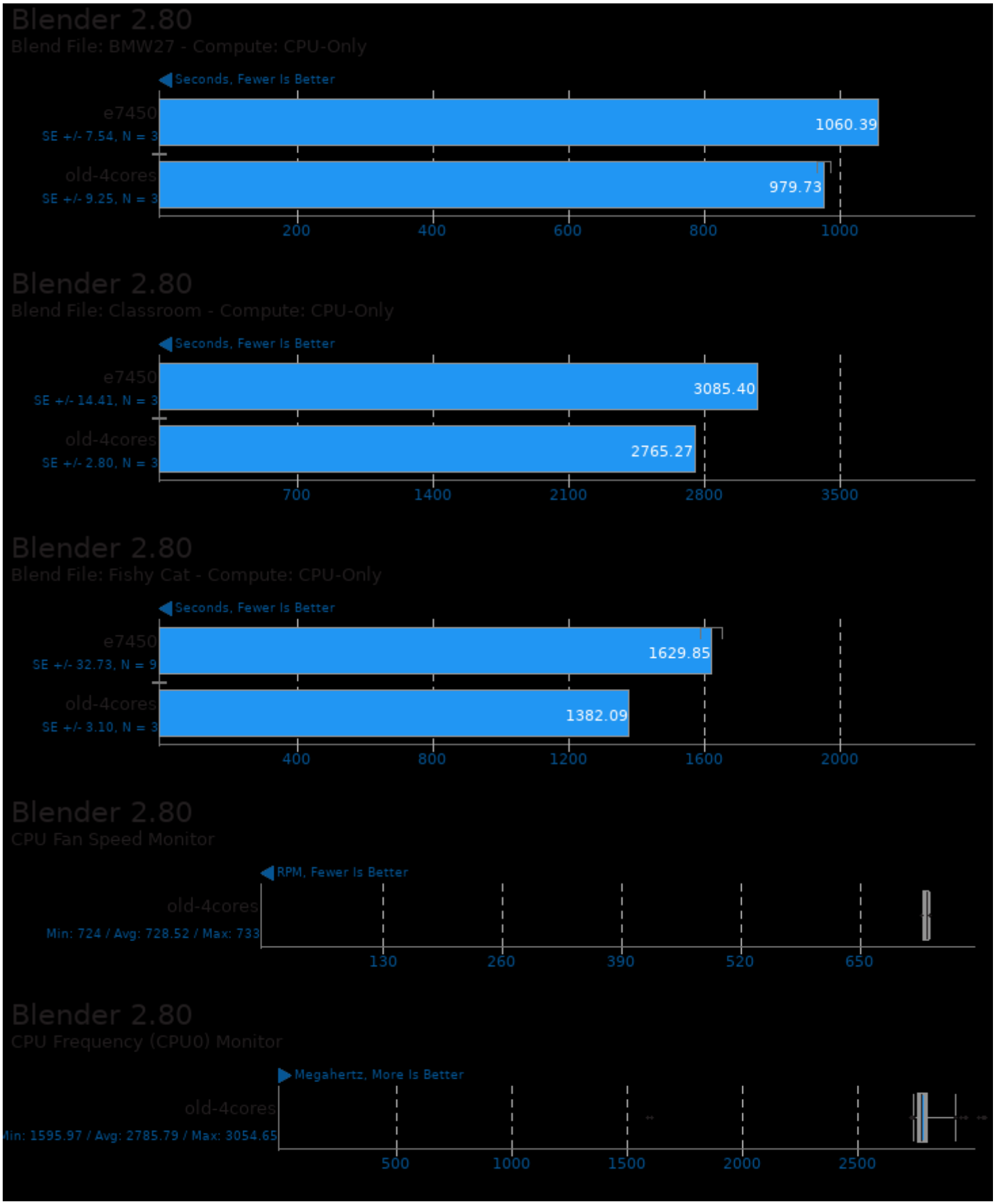
Processor: Intel Xeon X5550 @ 2.66GHz (4 Cores / 8 Threads), Motherboard: Dell 0D881F (A18 BIOS), Chipset: Intel 5520 I/O + ICH10R, Memory: 24576MB, Disk: 2 x 320GB Western Digital WD3200AAKS-7 + 480GB INTEL SSDSC2BW48, Graphics: ASUS AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1256/1750MHz), Audio: Intel 82801JI, Monitor: LG Ultra HD, Network: Broadcom NetXtreme BCM5761 PCIe

OS: Ubuntu 19.10, Kernel: 5.3.0-18-generic (x86_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenCL: OpenCL 1.1 Mesa 19.2.1, Compiler: GCC 9.2.1 20191008 + Clang 9.0.0-2, File-System: btrfs, Screen Resolution: 3840x2160

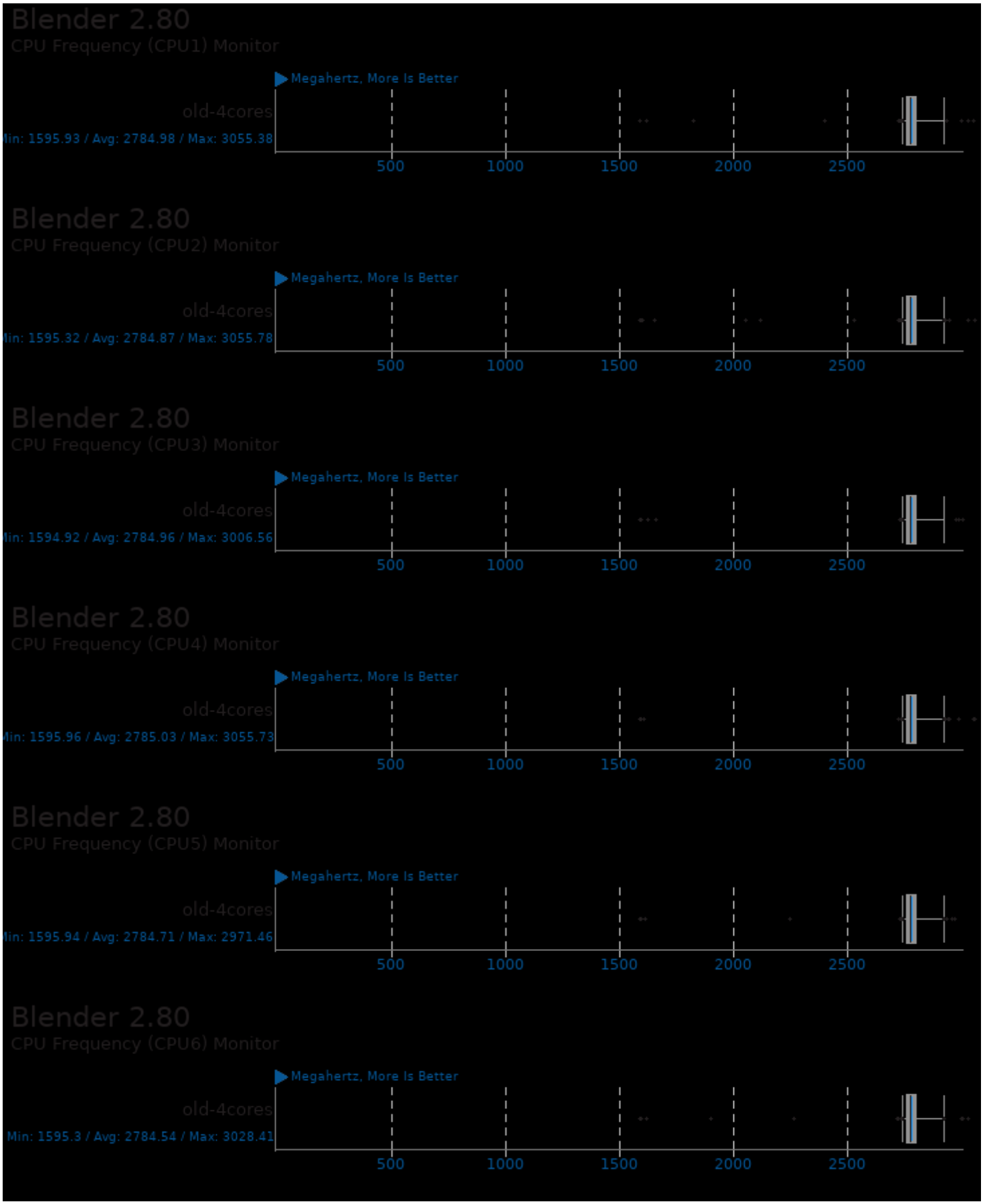
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

	e7450	old-4cores
Blender - BMW27 - CPU-Only (sec)	**1060**	**979.73**
Normalized	92.39%	100%
Standard Deviation	1.2%	1.6%
Blender - Classroom - CPU-Only (sec)	**3085**	**2765**
Normalized	89.62%	100%
Standard Deviation	0.8%	0.2%
Blender - Fishy Cat - CPU-Only (sec)	**1630**	**1382**
Normalized	84.8%	100%
Standard Deviation	6%	0.4%

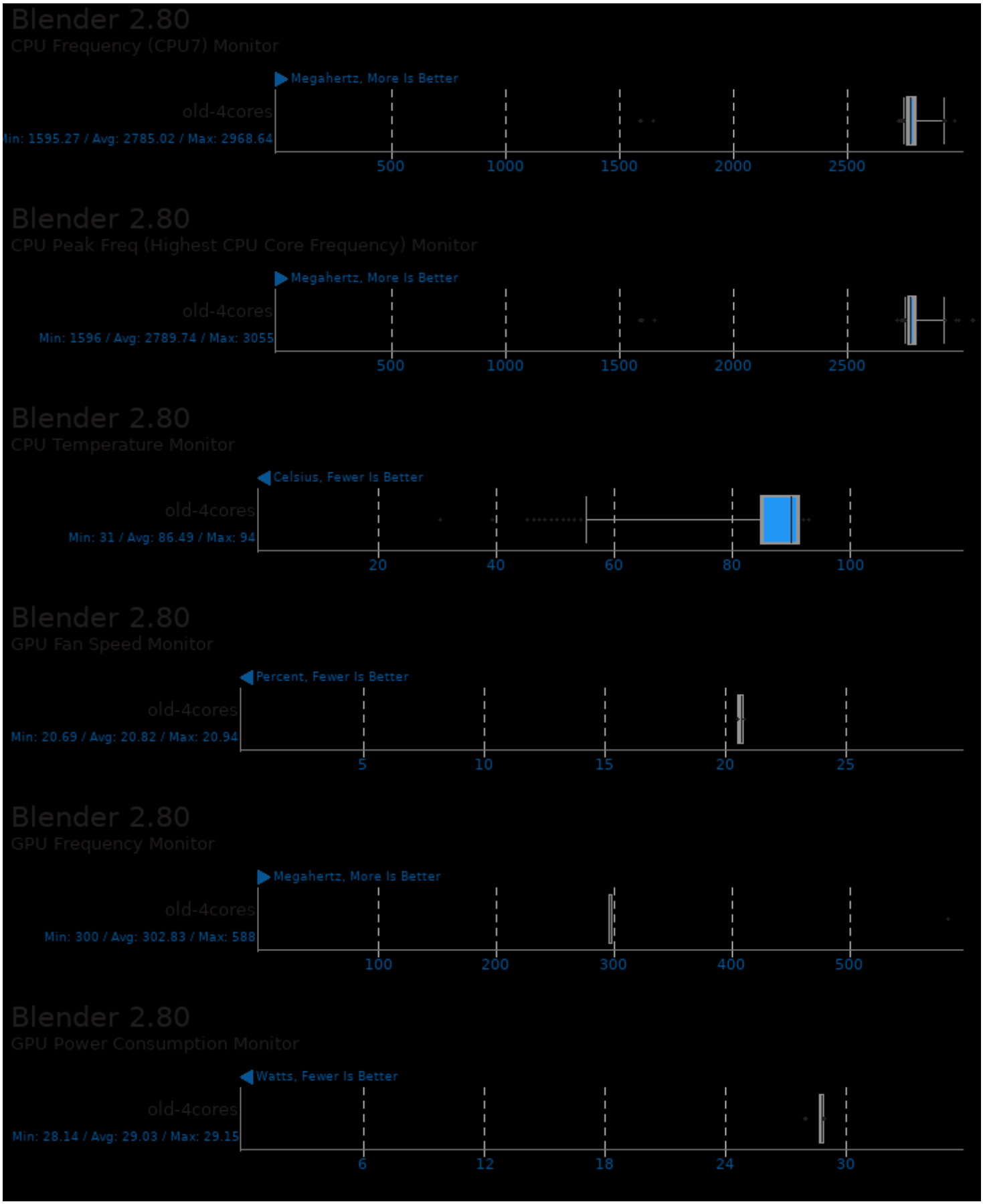
blender-all-cpu



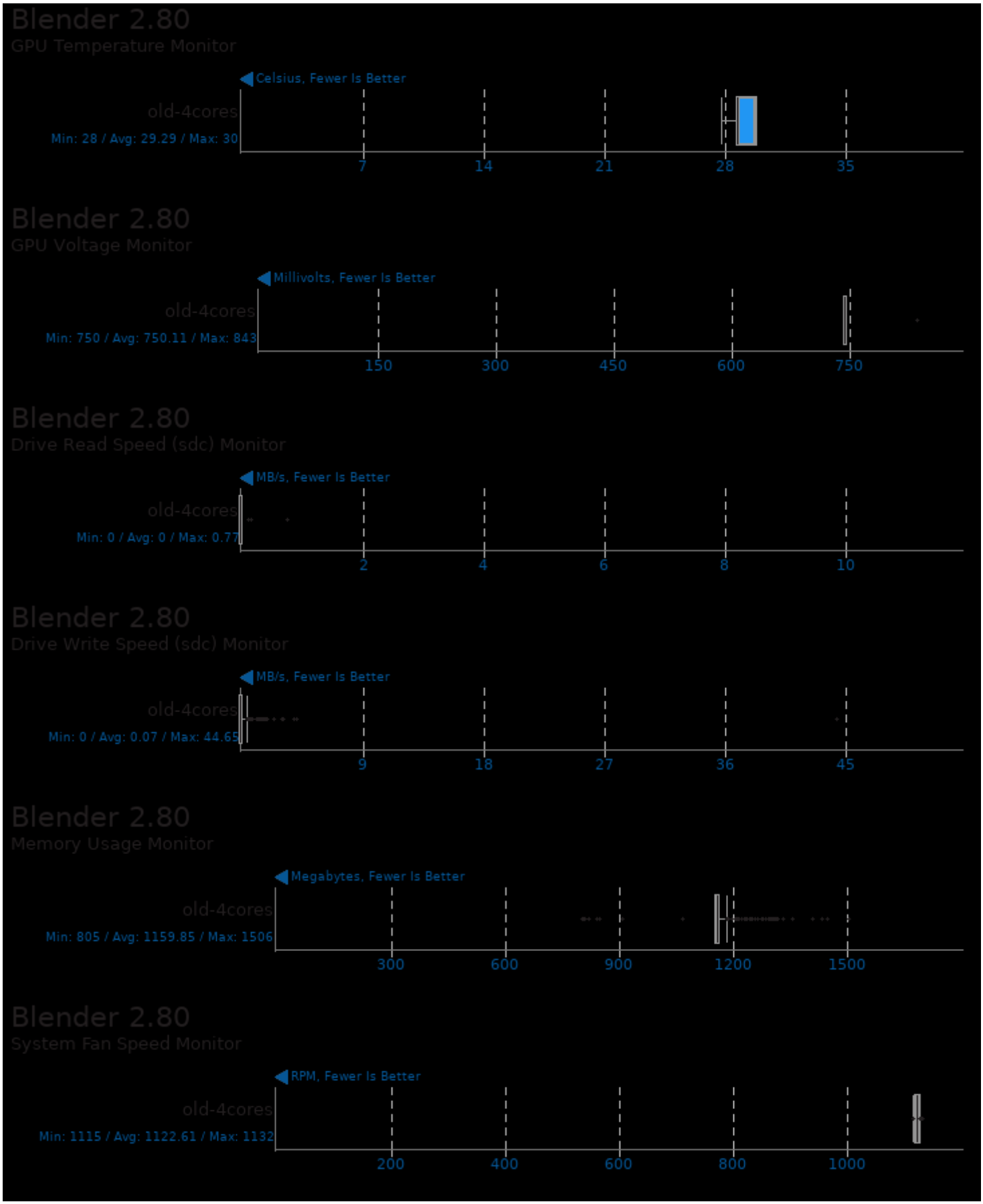
blender-all-cpu



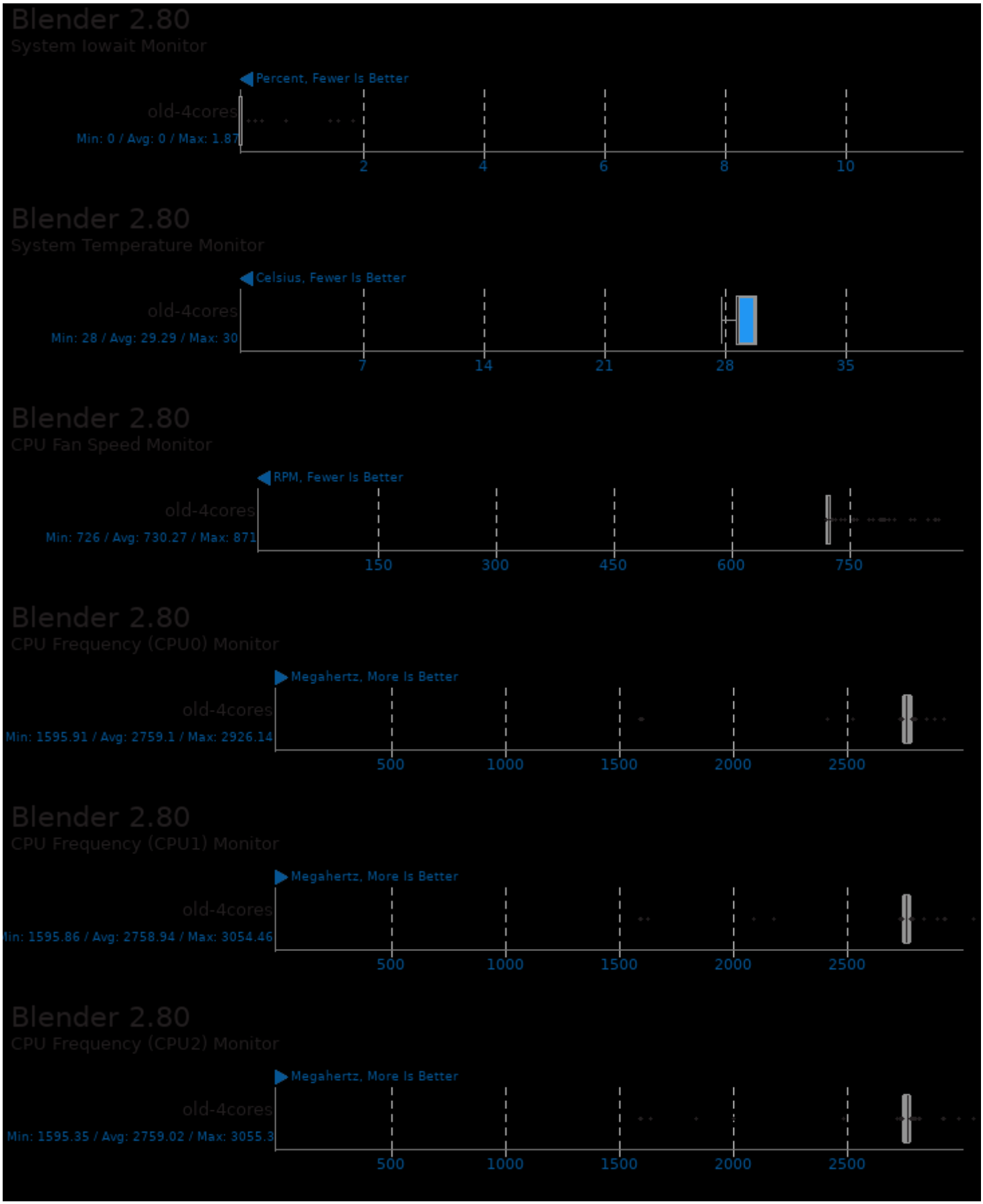
blender-all-cpu



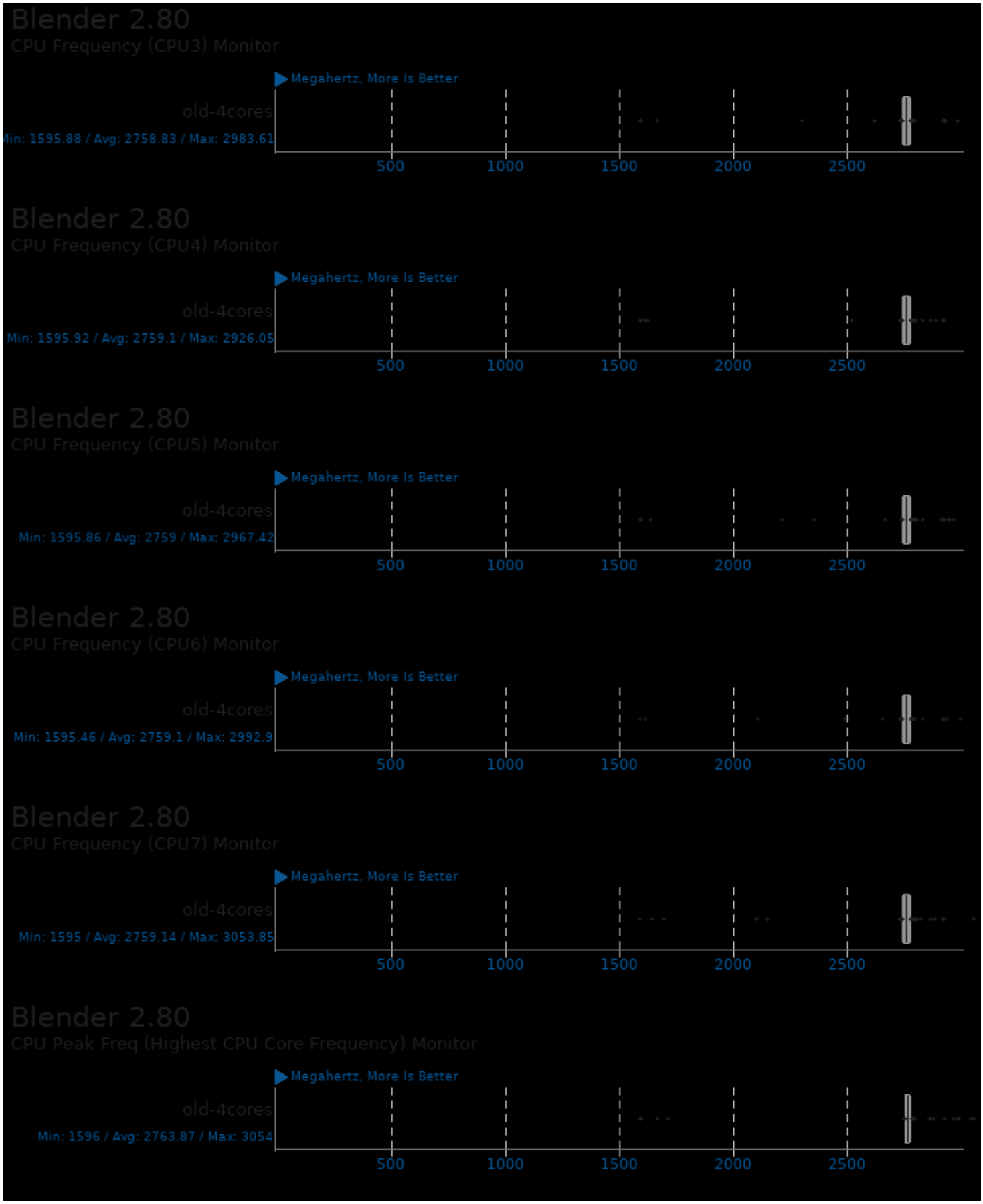
blender-all-cpu



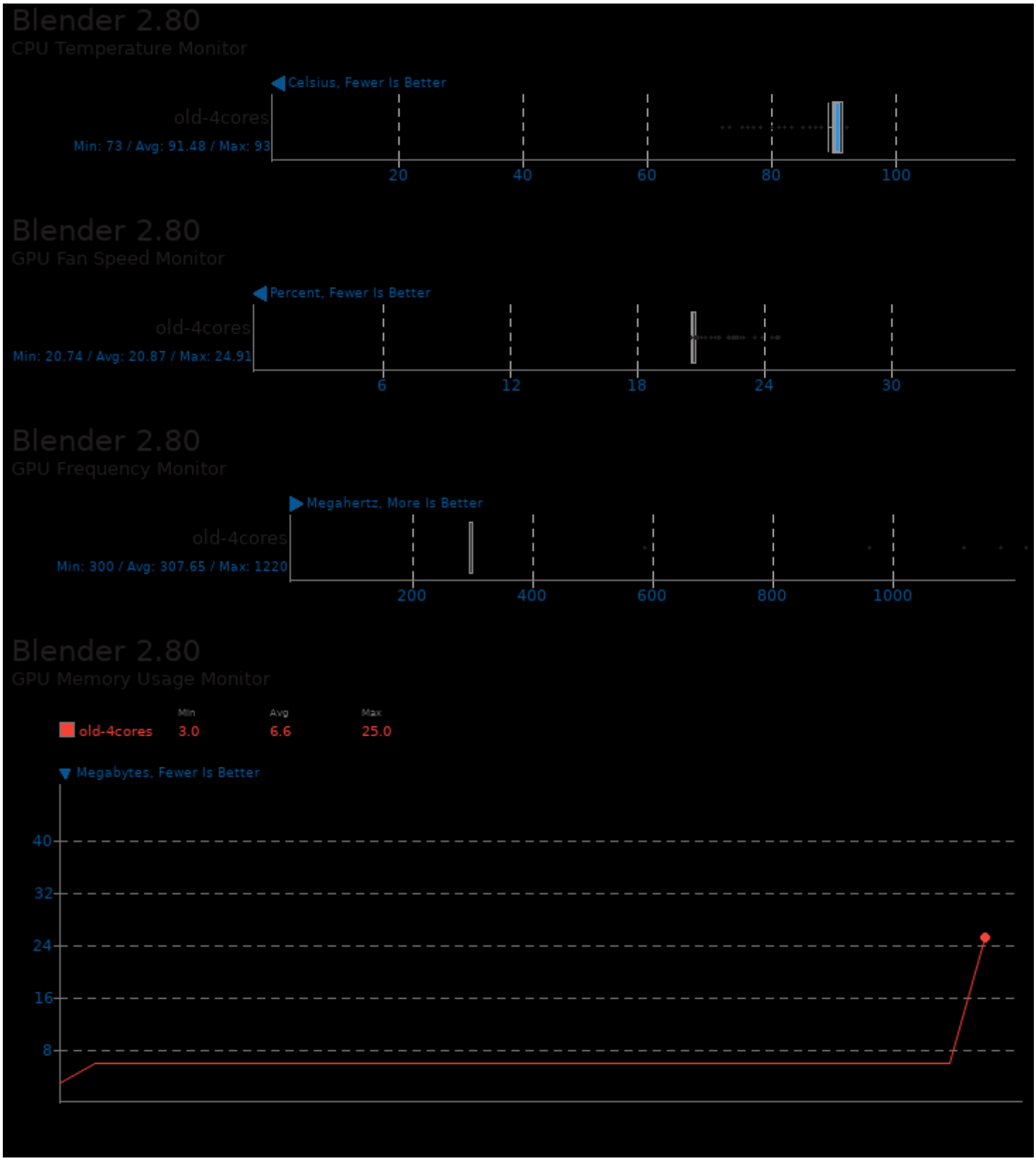
blender-all-cpu



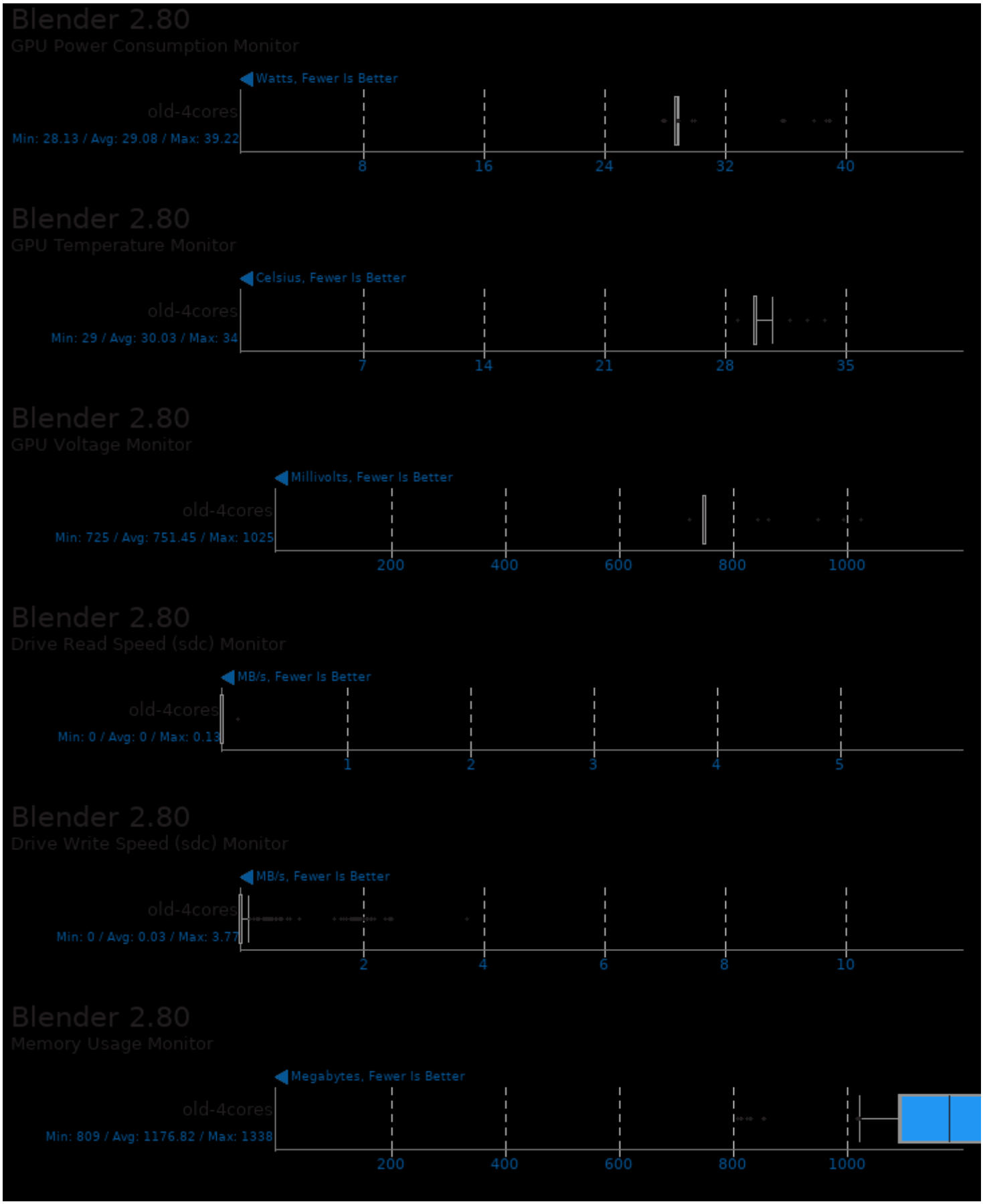
blender-all-cpu



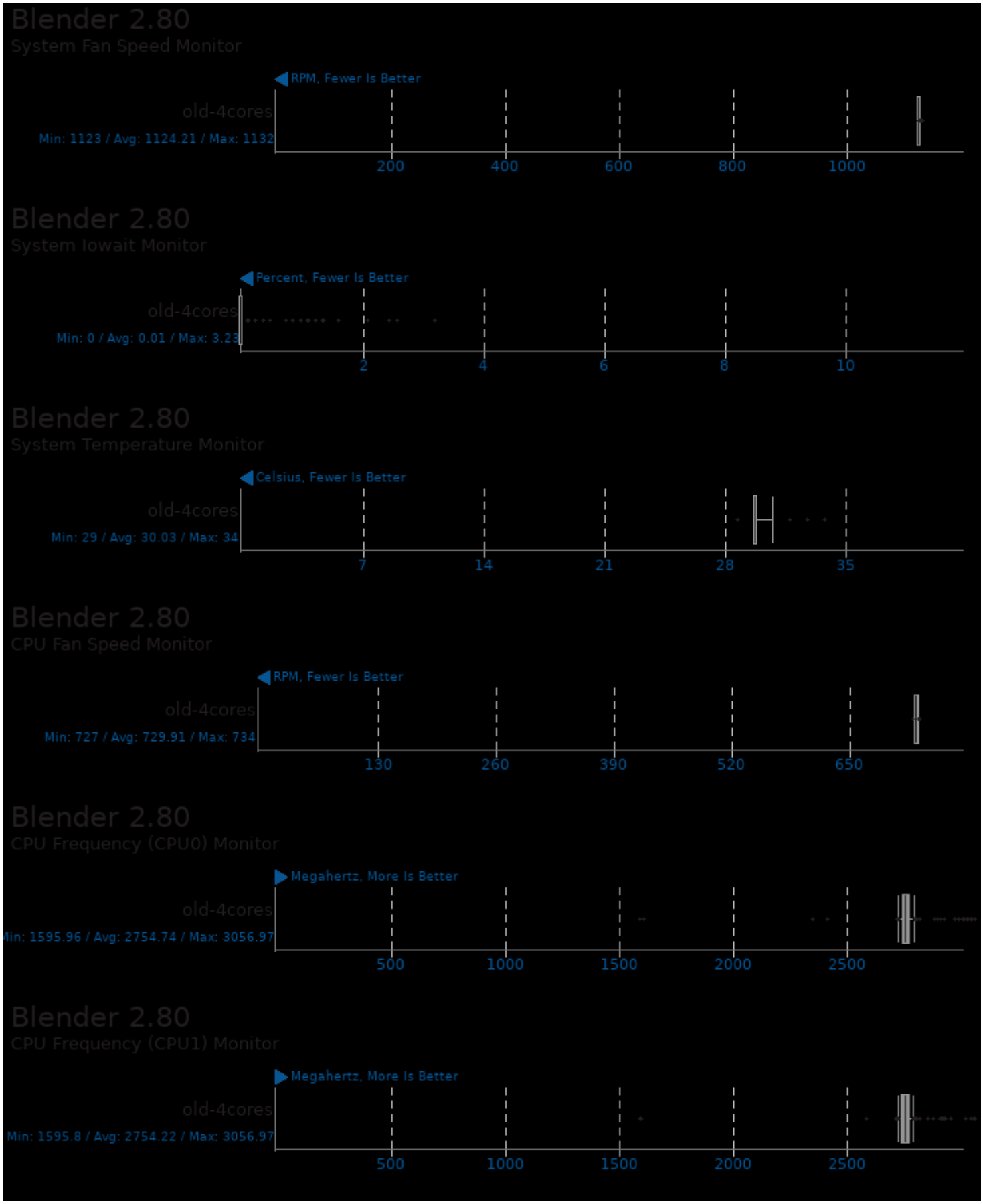
blender-all-cpu



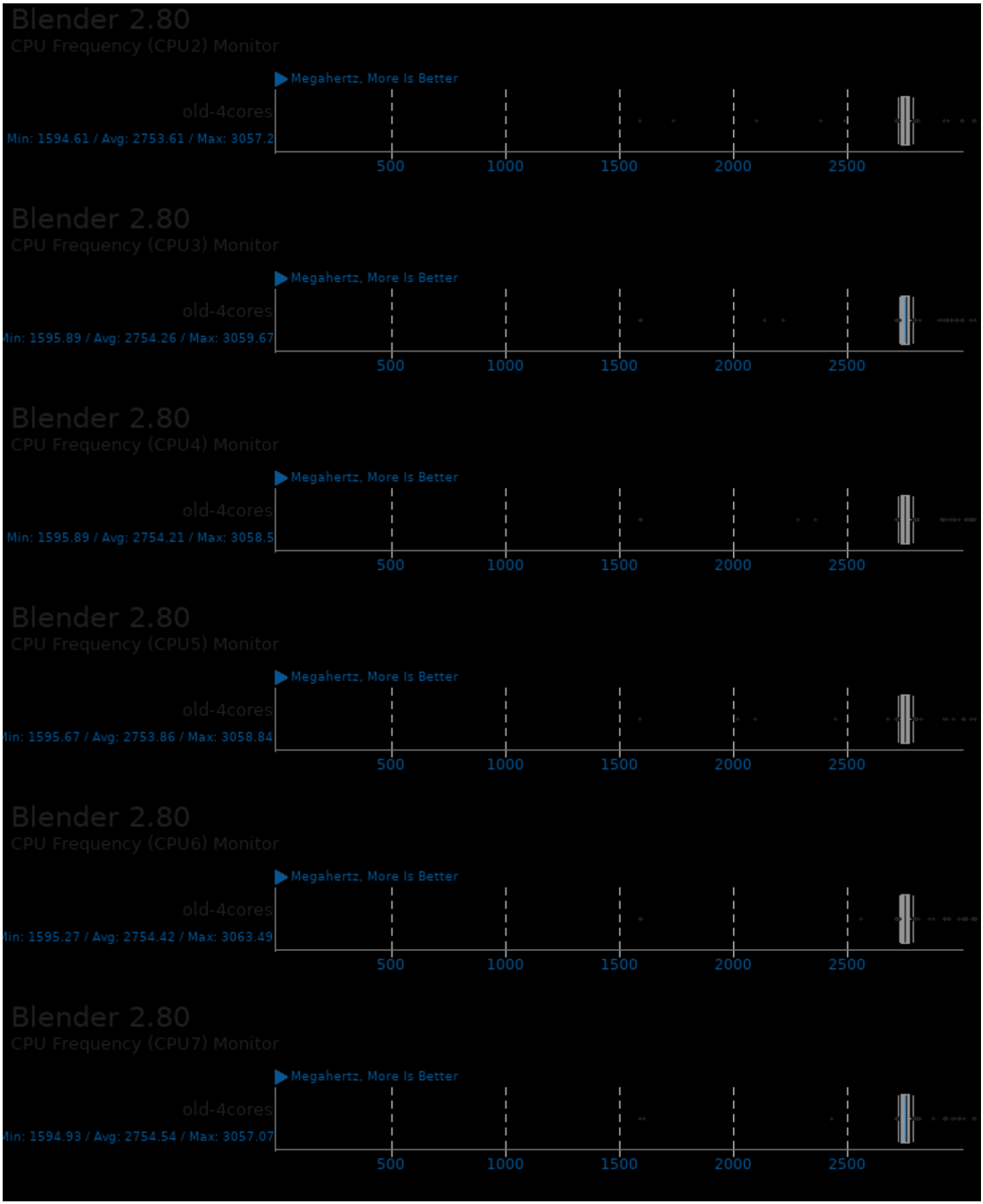
blender-all-cpu



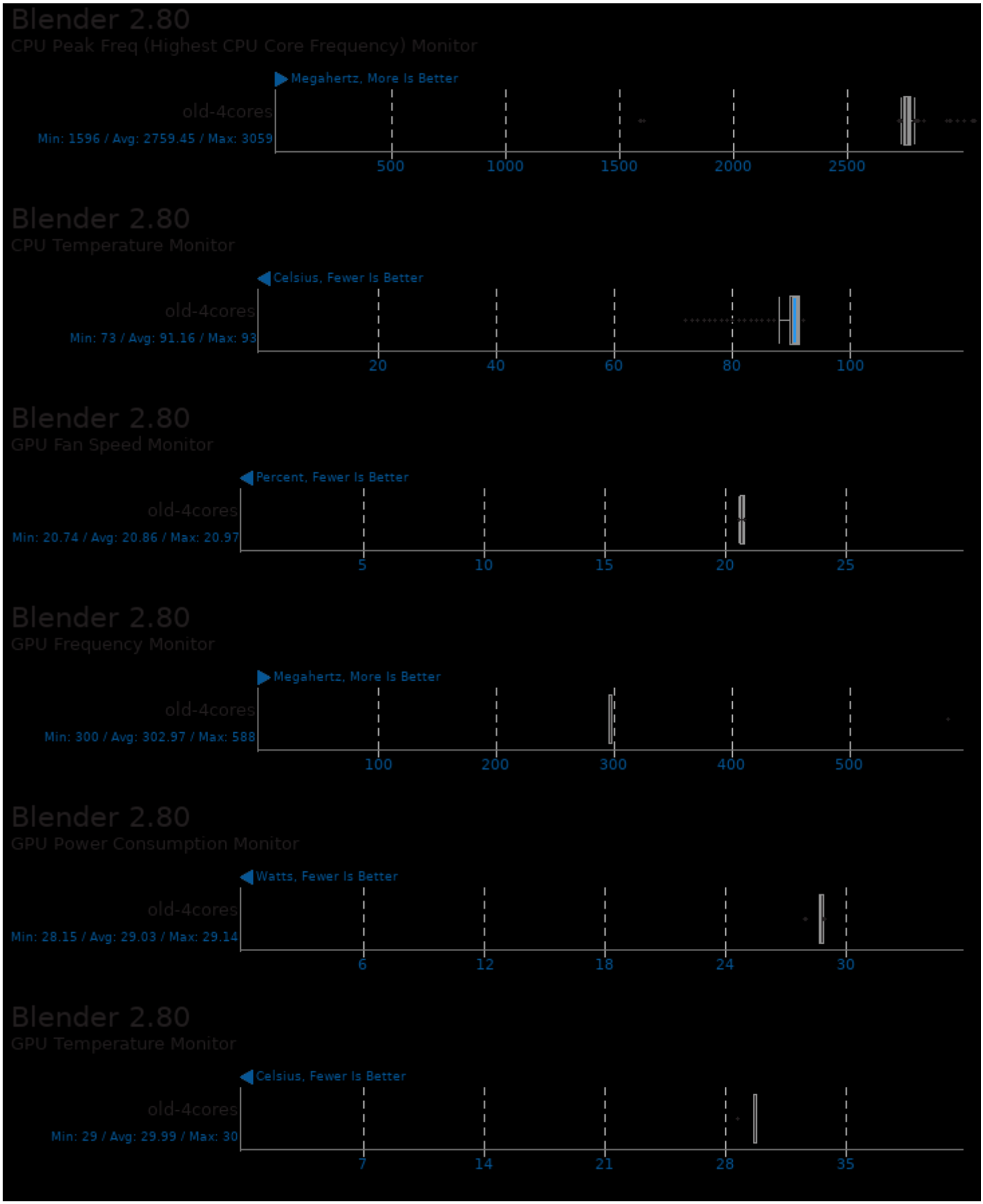
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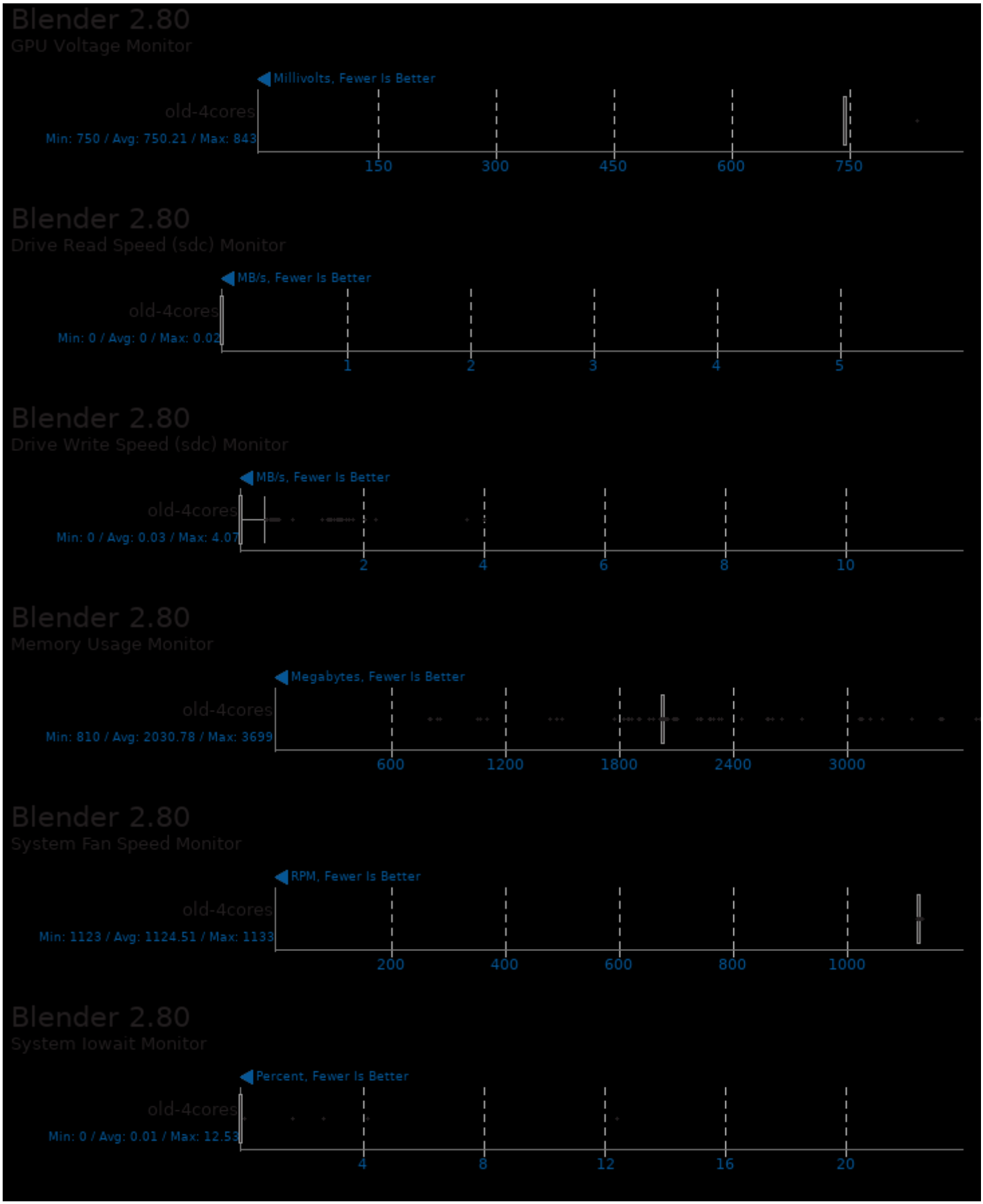


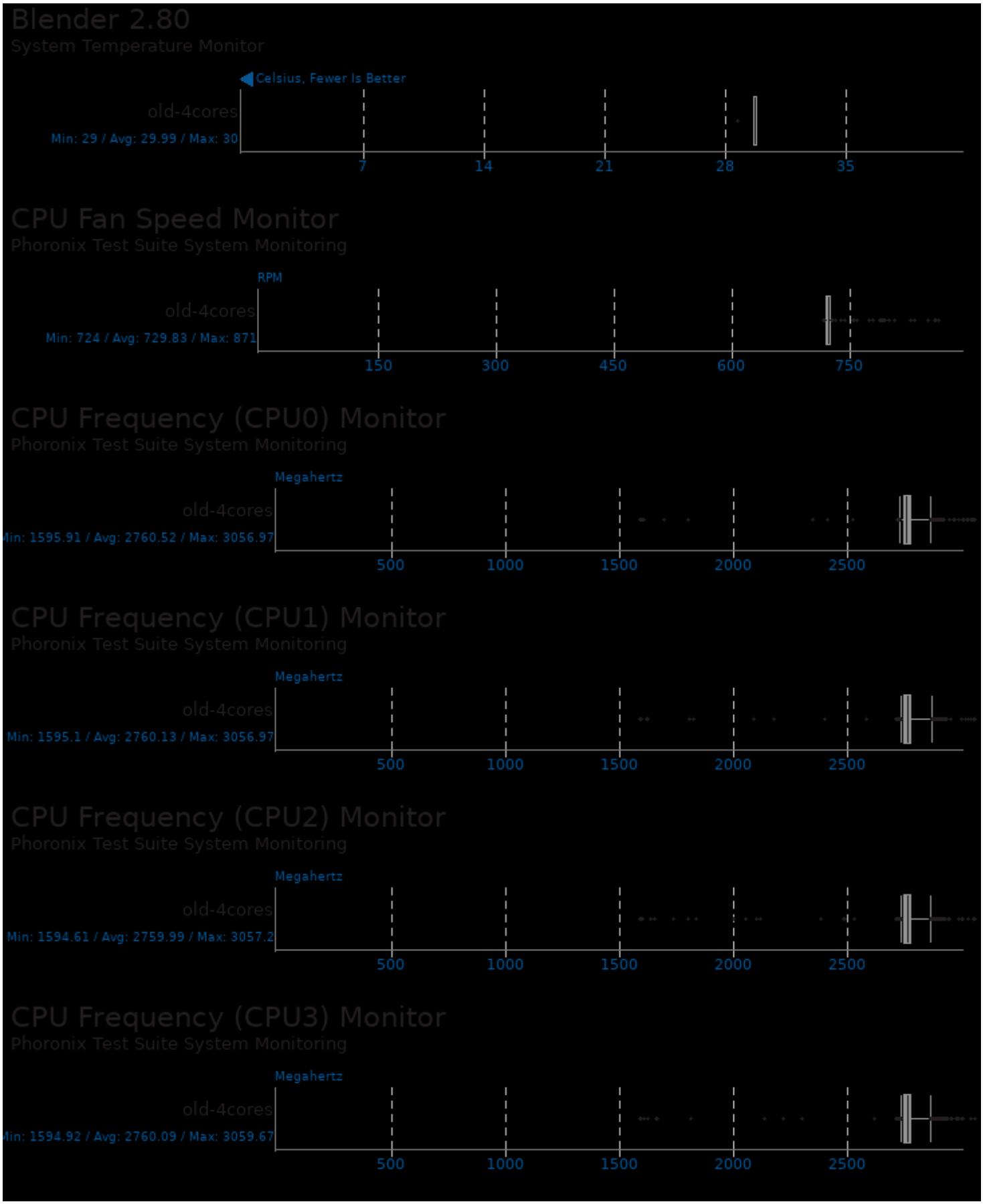
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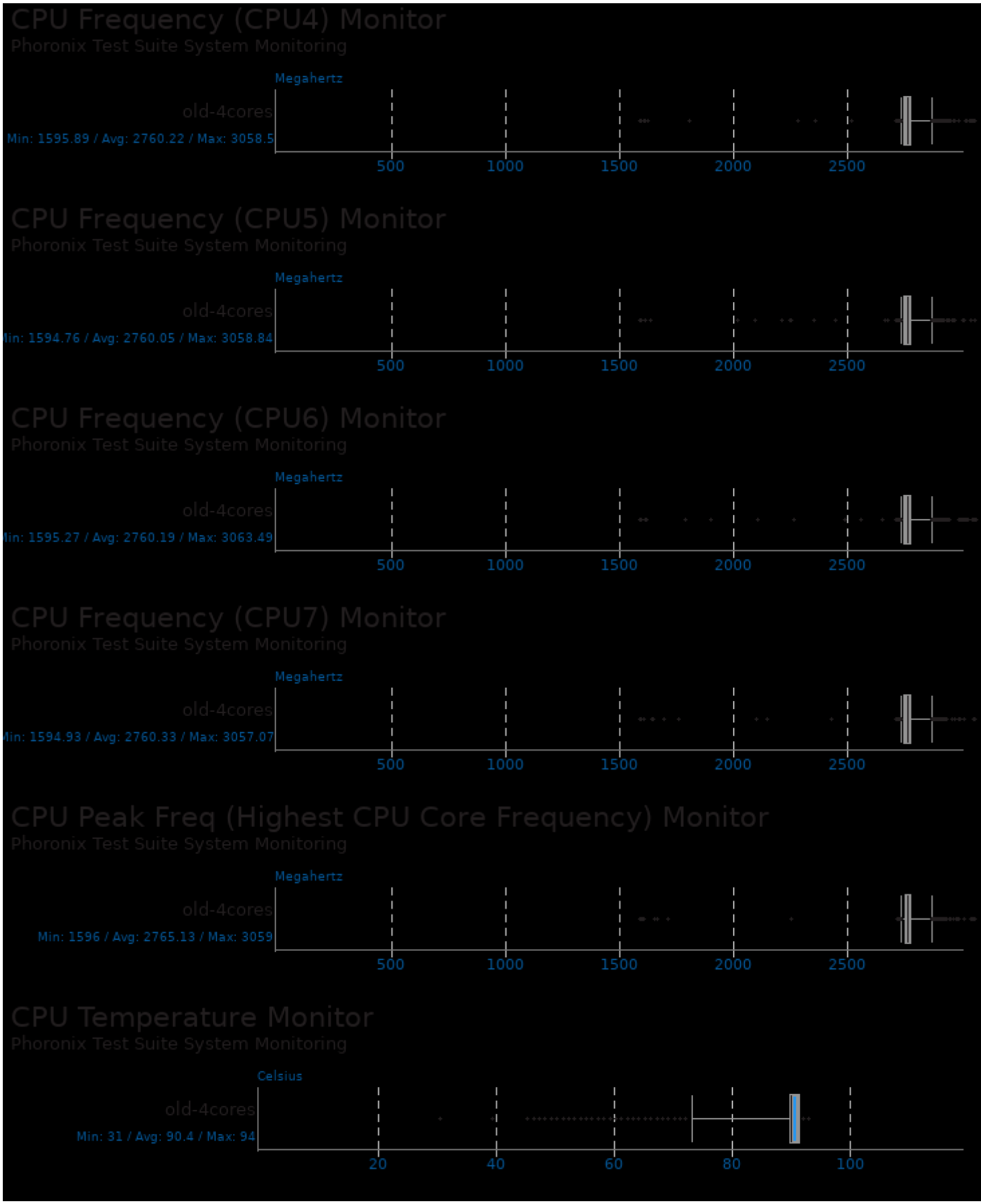


blender-all-cpu

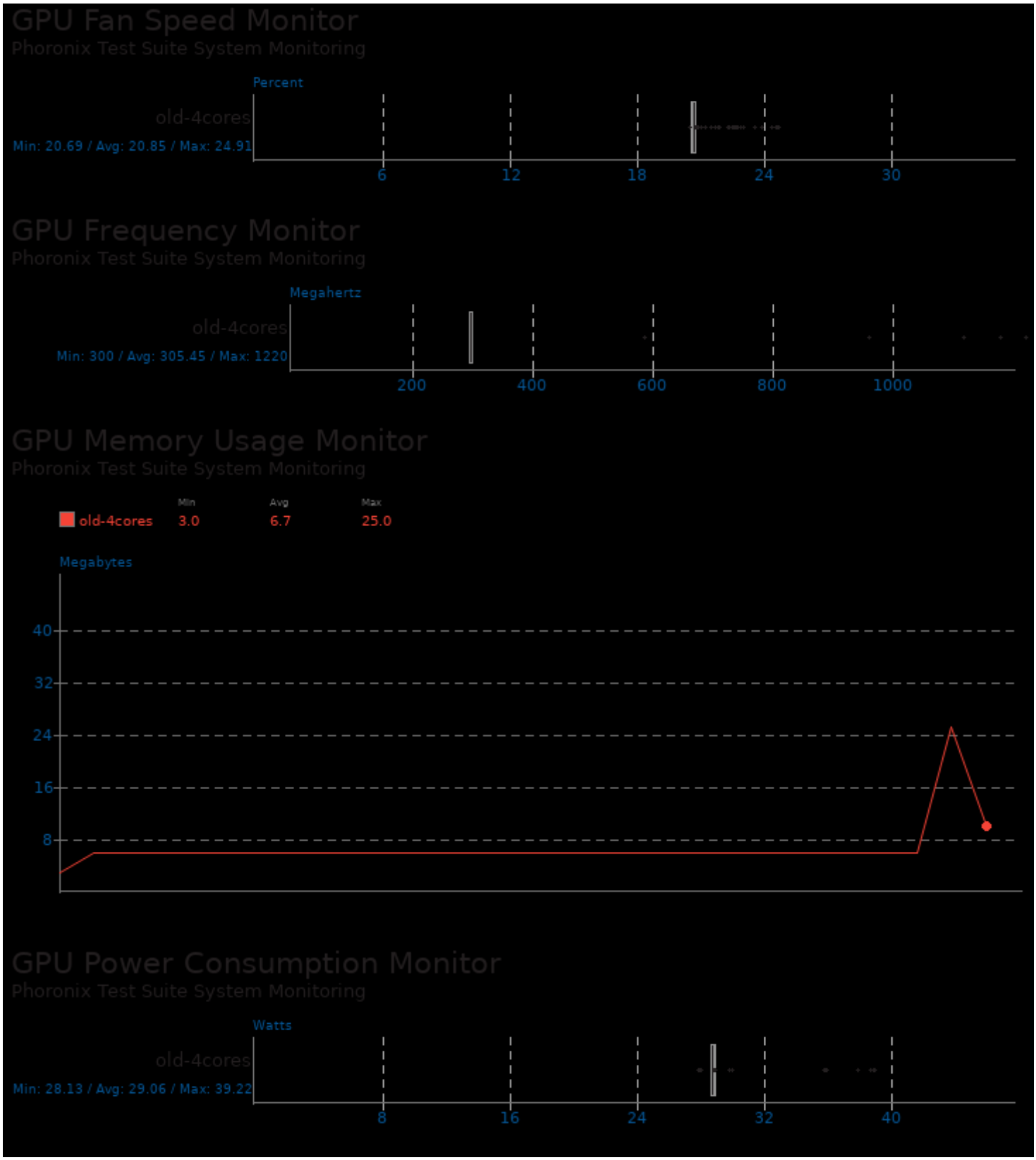



Blender 2.80
GPU Voltage Monitor
Millivolts, Fewer Is Better
old-4cores
Min: 750 / Avg: 750.21 / Max: 843
150
300
450
600
750
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Drive Read Speed (sdc) Monitor
MB/s, Fewer Is Better
old-4cores
Min: 0 / Avg: 0 / Max: 0.02
1
2
3
4
5
Blender 2.80
Drive Write Speed (sdc) Monitor
MB/s, Fewer Is Better
old-4cores
Min: 0 / Avg: 0.03 / Max: 4.07
2
4
6
8
10
Blender 2.80
Memory Usage Monitor
Megabytes, Fewer Is Better
old-4cores
Min: 810 / Avg: 2030.78 / Max: 3699
600
1200
1800
2400
3000
Blender 2.80
System Fan Speed Monitor
RPM, Fewer Is Better
old-4cores
Min: 1123 / Avg: 1124.51 / Max: 1133
200
400
600
800
1000
Blender 2.80
System Iowait Monitor
Percent, Fewer Is Better
old-4cores
Min: 0 / Avg: 0.01 / Max: 12.53
4
8
12
16
20

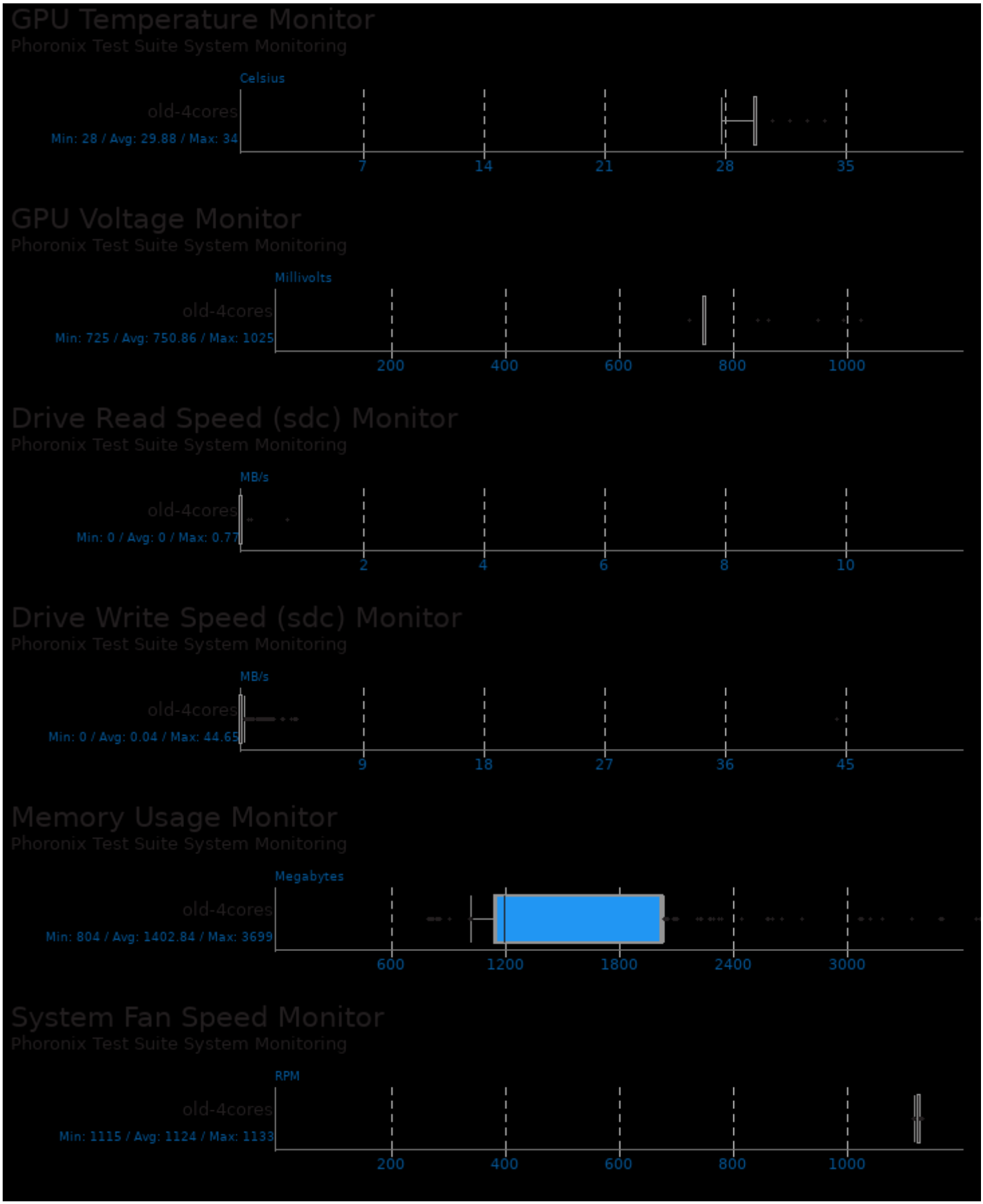

Blender 2.80
System Temperature Monitor
Celsius, Fewer Is Better
old-4cores
Min: 29 / Avg: 29.99 / Max: 30
7
14
21
28
35
CPU Fan Speed Monitor
Phoronix Test Suite System Monitoring
RPM
old-4cores
Min: 724 / Avg: 729.83 / Max: 871
150
300
450
600
750
CPU Frequency (CPU0) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
in: 1595.91 / Avg: 2760.52 / Max: 3056.97
500
1000
1500
2000
2500
CPU Frequency (CPU1) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
Min: 1595.1 / Avg: 2760.13 / Max: 3056.97
500
1000
1500
2000
2500
CPU Frequency (CPU2) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
Min: 1594.61 / Avg: 2759.99 / Max: 3057.2
500
1000
1500
2000
2500
CPU Frequency (CPU3) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
in: 1594.92 / Avg: 2760.09 / Max: 3059.67
500
1000
1500
2000
2500

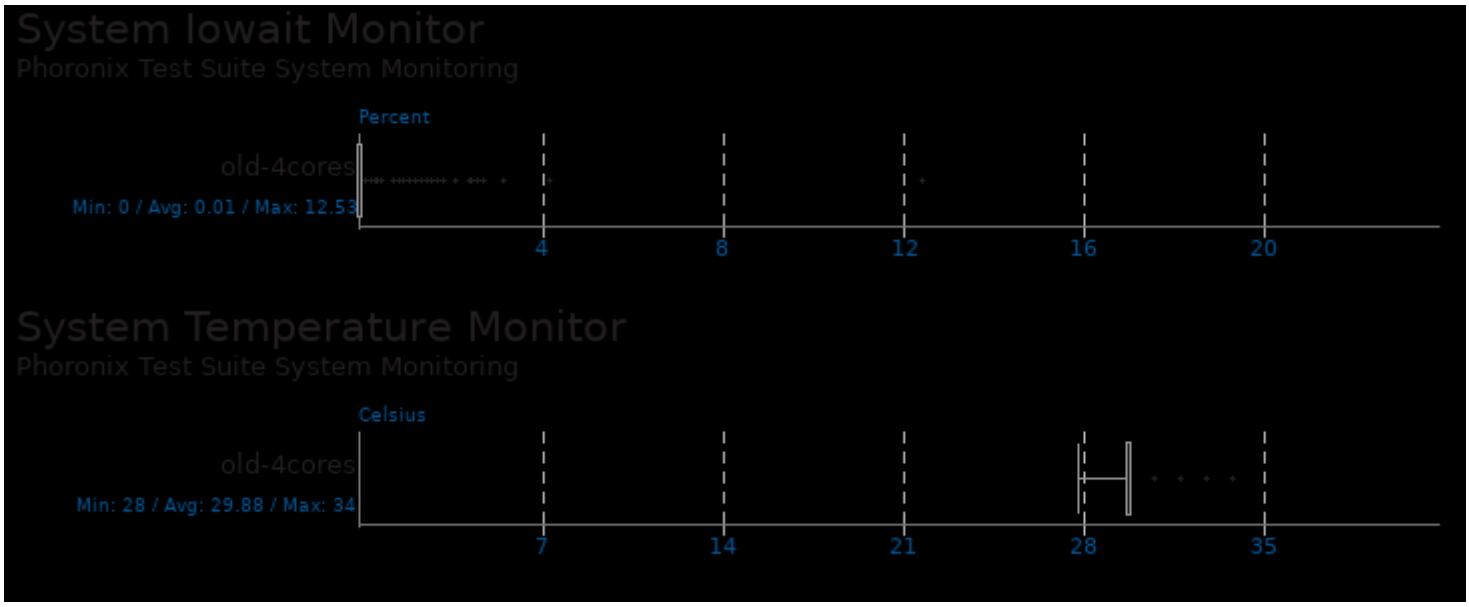

CPU Frequency (CPU4) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
Min: 1595.89 / Avg: 2760.22 / Max: 3058.5
500
1000
1500
2000
2500
CPU Frequency (CPU5) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
in: 1594.76 / Avg: 2760.05 / Max: 3058.84
500
1000
1500
2000
2500
CPU Frequency (CPU6) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
in: 1595.27 / Avg: 2760.19 / Max: 3063.49
500
1000
1500
2000
2500
CPU Frequency (CPU7) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
in: 1594.93 / Avg: 2760.33 / Max: 3057.07
500
1000
1500
2000
2500
CPU Peak Freq (Highest CPU Core Frequency) Monitor
Phoronix Test Suite System Monitoring
Megahertz
old-4cores
Min: 1596 / Avg: 2765.13 / Max: 3059
500
1000
1500
2000
2500
CPU Temperature Monitor
Phoronix Test Suite System Monitoring
Celsius
old-4cores
Min: 31 / Avg: 90.4 / Max: 94
20
40
60
80
100

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