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AMD Ryzen Threadripper 1920X 12-Core testing with a ASRock X399M Taichi (P1.00 BIOS) and AMD Radeon RX 64 8GB on Ubuntu 18.10 via the Phoronix Test Suite.

Automated Executive Summary

post-build had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (one-loop) was 1.016x the speed of the slowest (post-build).

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

Timed Linux Kernel Compilation (CPU Usage (Summary) Monitor) at 588.235x
GpuTest (CPU Usage (Summary) Monitor) at 51.125x
GpuTest (CPU Usage (Summary) Monitor) at 39.5x
GpuTest (CPU Usage (Summary) Monitor) at 36.375x
Timed Linux Kernel Compilation (CPU Frequency (CPU19) Monitor) at 2.373x
Timed Linux Kernel Compilation (CPU Frequency (CPU9) Monitor) at 2.354x
Timed Linux Kernel Compilation (CPU Frequency (CPU20) Monitor) at 2.348x
Timed Linux Kernel Compilation (CPU Frequency (CPU23) Monitor) at 2.335x
Timed Linux Kernel Compilation (CPU Frequency (CPU12) Monitor) at 2.331x

Timed Linux Kernel Compilation (CPU Frequency (CPU14) Monitor) at 2.318x.

Test Systems:

post-build

Processor: AMD Ryzen Threadripper 1920X 12-Core @ 3.50GHz (12 Cores / 24 Threads), Motherboard: ASRock X399M Taichi (P1.00 BIOS), Chipset: AMD Family 17h, Memory: 32768MB, Disk: 32GB Wireless Stick + PC300 NVMe SK hynix 512GB + 256GB THNSF5256GPUK TOSHIBA, Graphics: AMD Radeon RX 64 8GB (1630/945MHz), Audio: Realtek ALC1220, Monitor: IPS224, Network: Intel I211 Gigabit Connection + Intel Dual Band Wireless-AC 3168NGW

OS: Ubuntu 18.10, Kernel: 4.18.0-13-generic (x86_64), Desktop: Xfce 4.12, Display Server: X Server 1.20.1, Display Driver: amdgpu 18.1.0, OpenGL: 4.5 Mesa 18.2.2 (LLVM 7.0.0), Compiler: GCC 8.2.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: GLAMOR
Security Notes: __user pointer sanitization + Full AMD retpoline + SSB disabled via prctl and seccomp

one-loop

Processor: AMD Ryzen Threadripper 1920X 12-Core @ 3.50GHz (12 Cores / 24 Threads), Motherboard: ASRock X399M Taichi (P1.00 BIOS), Chipset: AMD Family 17h, Memory: 32768MB, Disk: 32GB Wireless Stick + 256GB THNSF5256GPUK TOSHIBA + PC300 NVMe SK hynix 512GB, Graphics: AMD Radeon RX 64 8GB (1630/945MHz), Audio: Realtek ALC1220, Monitor: IPS224, Network: Intel I211 Gigabit Connection + Intel Dual Band Wireless-AC 3168NGW

OS: Ubuntu 18.10, Kernel: 4.18.0-13-generic (x86_64), Desktop: Xfce 4.12, Display Server: X Server 1.20.1, Display Driver: amdgpu 18.1.0, OpenGL: 4.5 Mesa 18.2.2 (LLVM 7.0.0), Compiler: GCC 8.2.0, File-System: ext4, Screen Resolution: 1920x1080

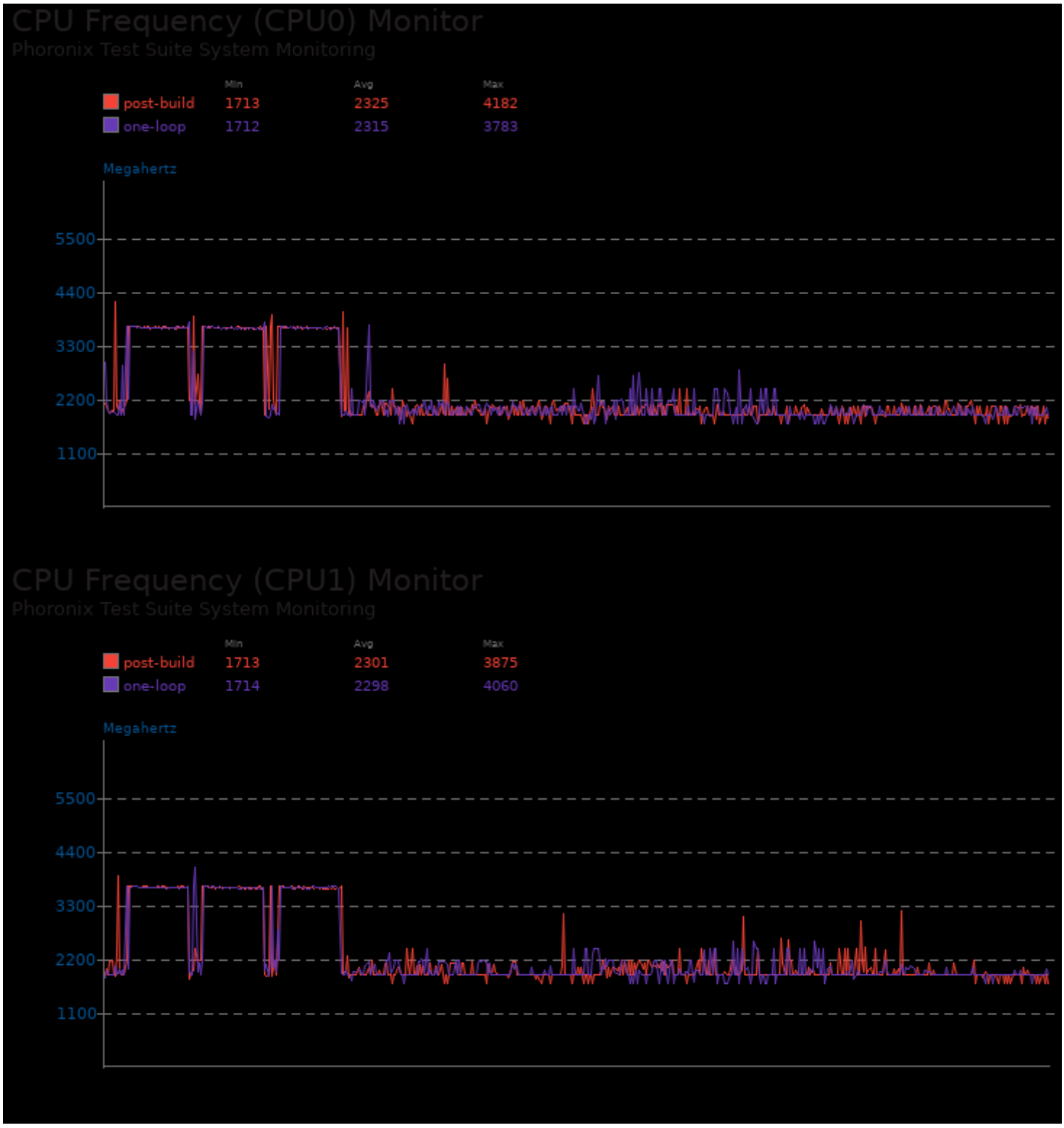
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: GLAMOR
Security Notes: __user pointer sanitization + Full AMD retpoline + SSB disabled via prctl and seccomp

	post-build	one-loop
GpuTest - Furmark - 1920 x 1080 - Fullscreen (Points)	12351	12222

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Normalized	100%	98.96%
Standard Deviation	0.1%	0.4%
GpuTest - Pixmark Piano - 1920 x 1080 - Fullscreen (Points)	**2948**	**3017**
Normalized	97.71%	100%
Standard Deviation	2%	0.1%
GpuTest - Pixmark Volplosion - 1920 x 1080 - Fullscreen (Points)	**7225**	**7618**
Normalized	94.84%	100%
Standard Deviation	1.2%	0.1%
Timed Linux Kernel Compilation - Time To Compile	**66.42**	**66.61**
Normalized	100%	99.71%
Standard Deviation	2.3%	1.9%

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CPU Frequency (CPU0) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1713 2325 4182
one-loop 1712 2315 3783
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU1) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1713 2301 3875
one-loop 1714 2298 4060
Megahertz
5500
4400
3300
2200
1100


CPU Frequency (CPU10) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1713 2338 3779
one-loop 1713 2326 3975
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU11) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2350 3926
one-loop 1713 2281 4042
Megahertz
5500
4400
3300
2200
1100


CPU Frequency (CPU12) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1713 2303 4167
one-loop 1713 2302 3870
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU13) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2302 3887
one-loop 1713 2296 3905
Megahertz
5000
4000
3000
2000
1000


CPU Frequency (CPU14) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1713 2280 3814
one-loop 1712 2268 3983
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU15) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1715 2355 3693
one-loop 1714 2348 3919
Megahertz
5000
4000
3000
2000
1000

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CPU Frequency (CPU16) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1715 2350 3904
one-loop 1713 2332 4051
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU17) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2347 4096
one-loop 1714 2361 4042
Megahertz
5500
4400
3300
2200
1100

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CPU Frequency (CPU18) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1812 2422 4000
one-loop 1716 2398 4102
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU19) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1774 2405 4067
one-loop 1714 2384 3693
Megahertz
5500
4400
3300
2200
1100

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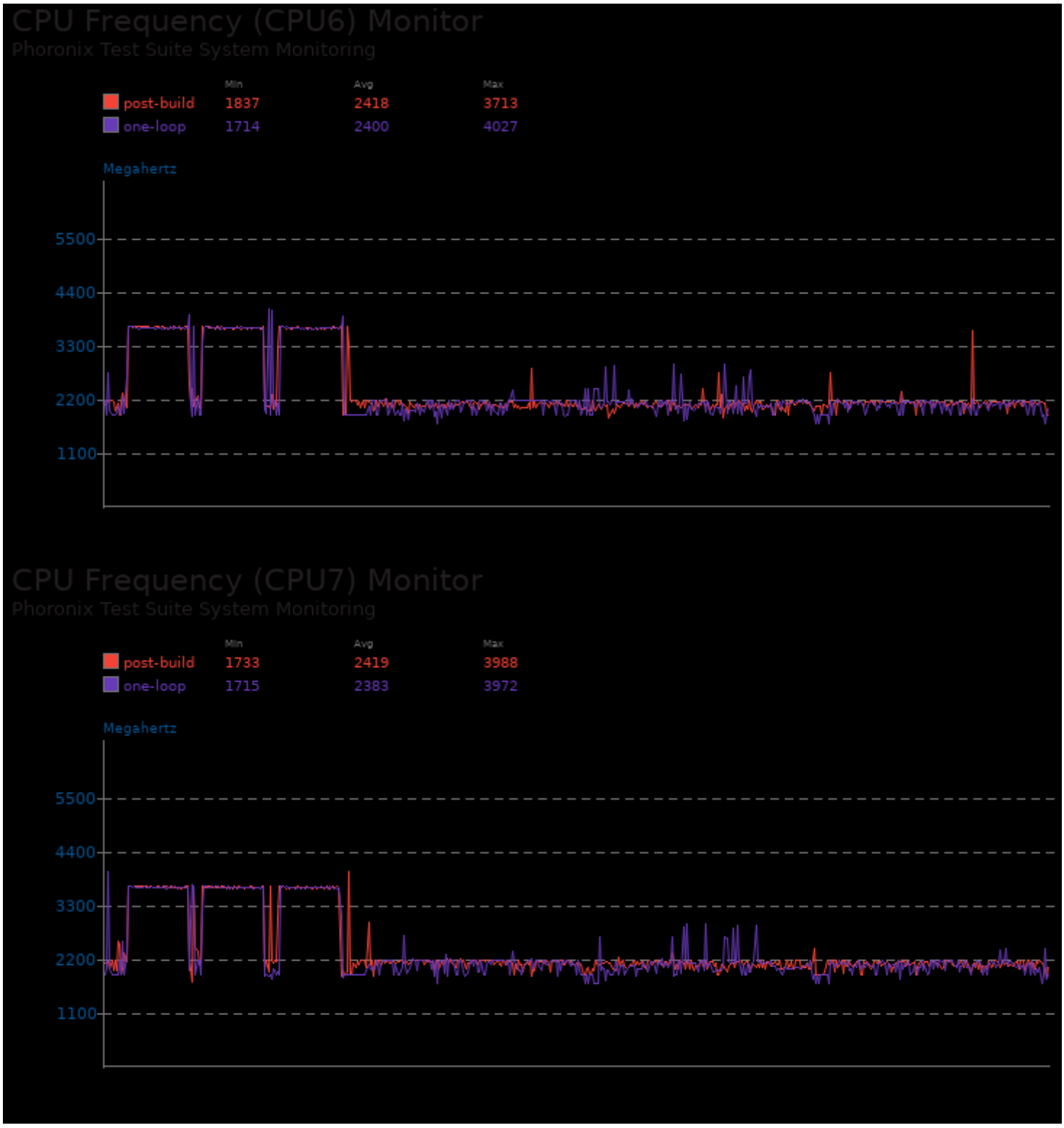

CPU Frequency (CPU2) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2312 3714
one-loop 1712 2287 4025
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU20) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1729 2396 3706
one-loop 1713 2378 4024
Megahertz
5500
4400
3300
2200
1100

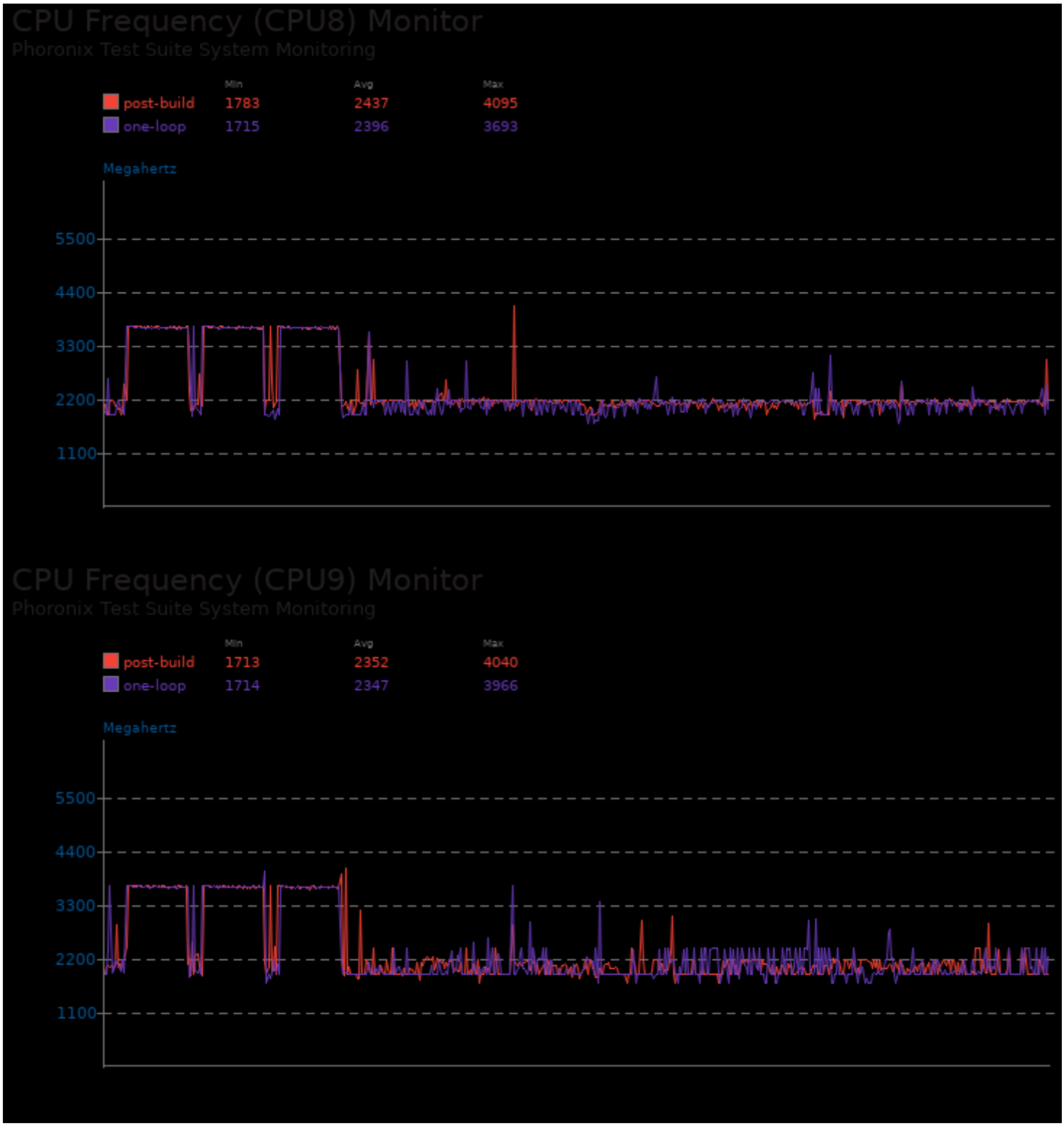

CPU Frequency (CPU21) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1712 2336 3822
one-loop 1713 2322 3944
Megahertz
5000
4000
3000
2000
1000
CPU Frequency (CPU22) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2320 3862
one-loop 1714 2299 3693
Megahertz
5000
4000
3000
2000
1000


CPU Frequency (CPU23) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2347 3929
one-loop 1714 2275 4007
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU3) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1716 2353 3693
one-loop 1713 2375 4042
Megahertz
5500
4400
3300
2200
1100

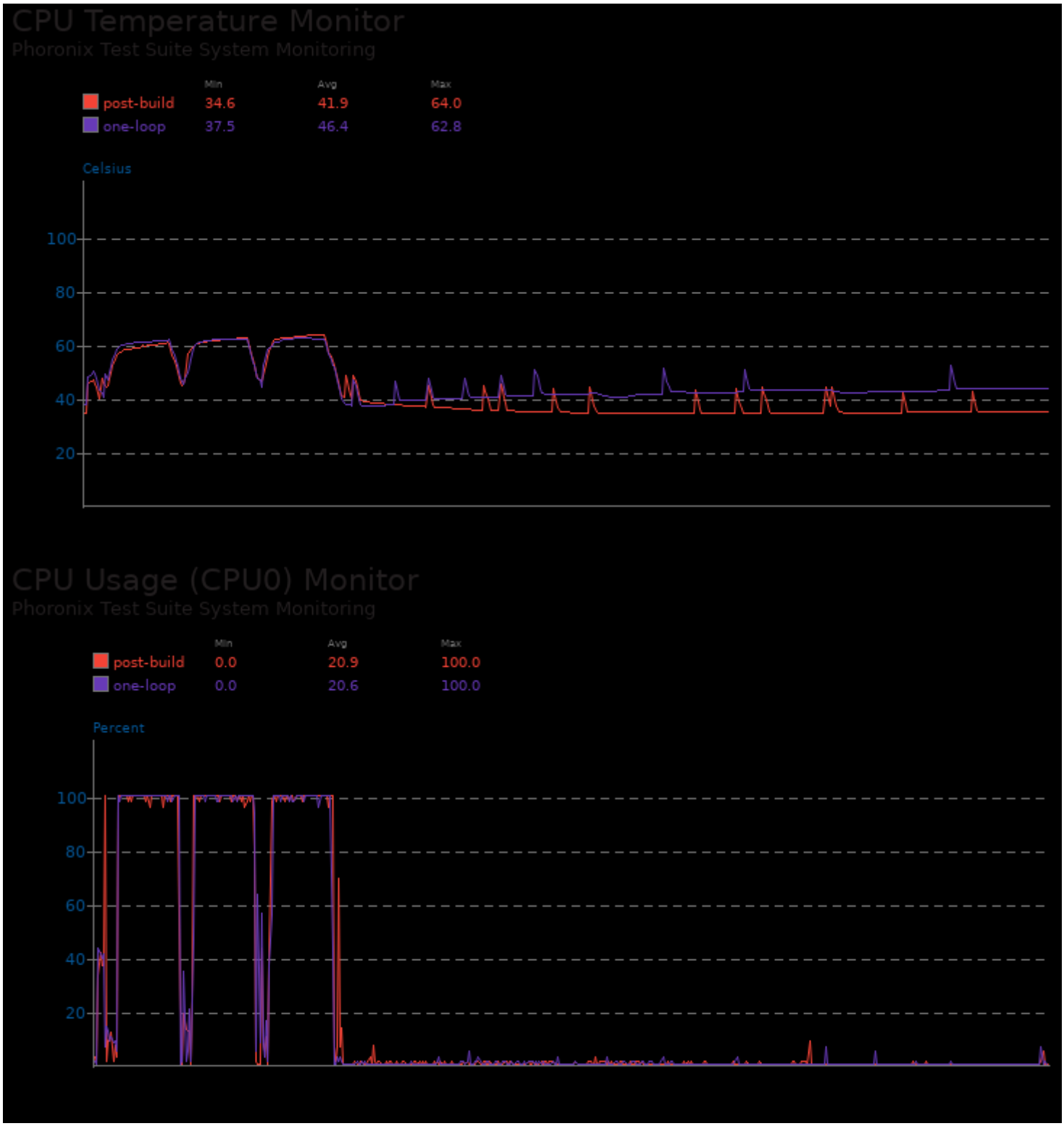

CPU Frequency (CPU4) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2352 3919
one-loop 1714 2333 4009
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU5) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1714 2341 3885
one-loop 1714 2369 4037
Megahertz
5500
4400
3300
2200
1100

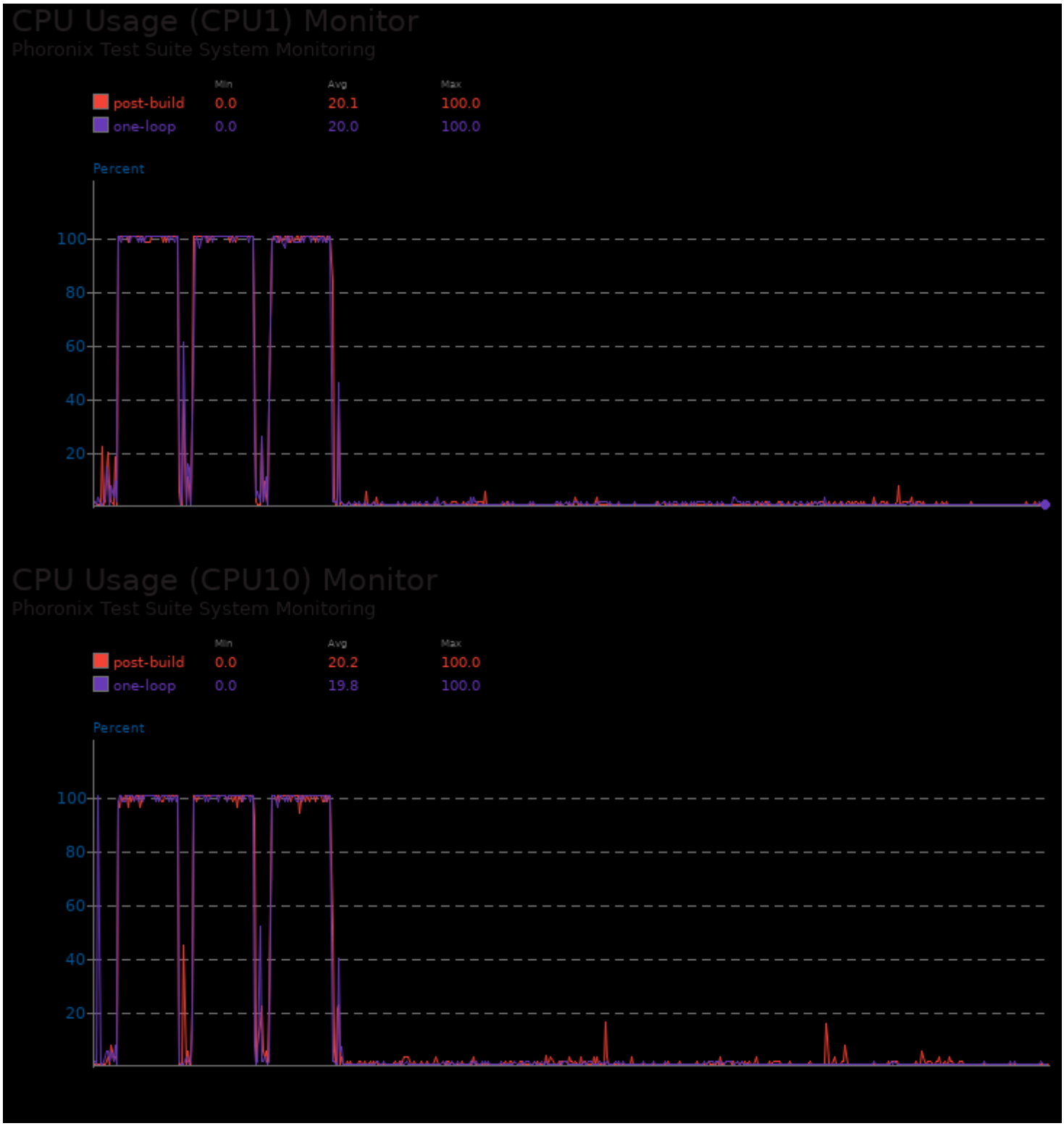
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CPU Frequency (CPU6) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1837 2418 3713
one-loop 1714 2400 4027
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU7) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1733 2419 3988
one-loop 1715 2383 3972
Megahertz
5500
4400
3300
2200
1100

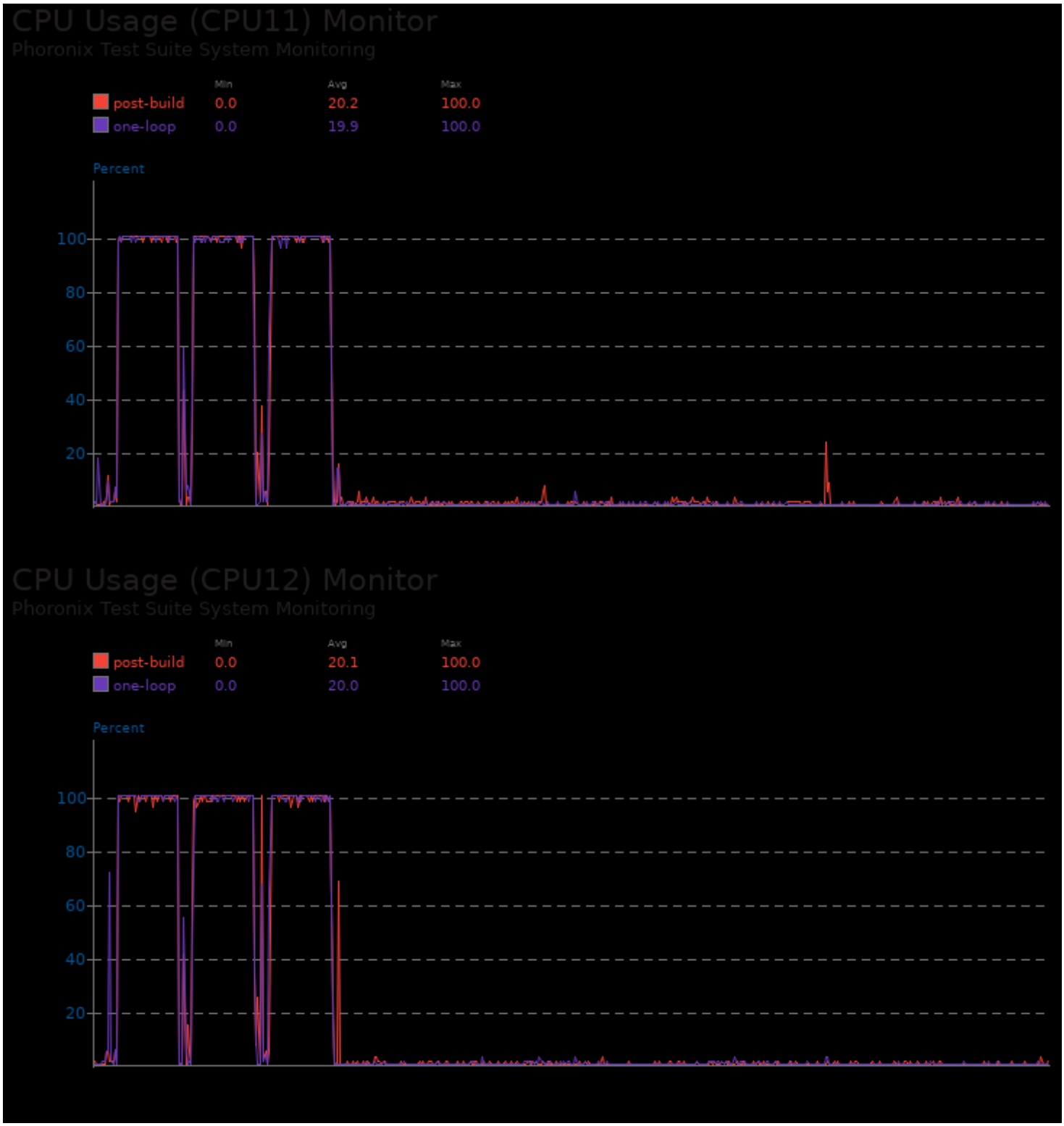

CPU Frequency (CPU8) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1783 2437 4095
one-loop 1715 2396 3693
Megahertz
5500
4400
3300
2200
1100
CPU Frequency (CPU9) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 1713 2352 4040
one-loop 1714 2347 3966
Megahertz
5500
4400
3300
2200
1100

temps

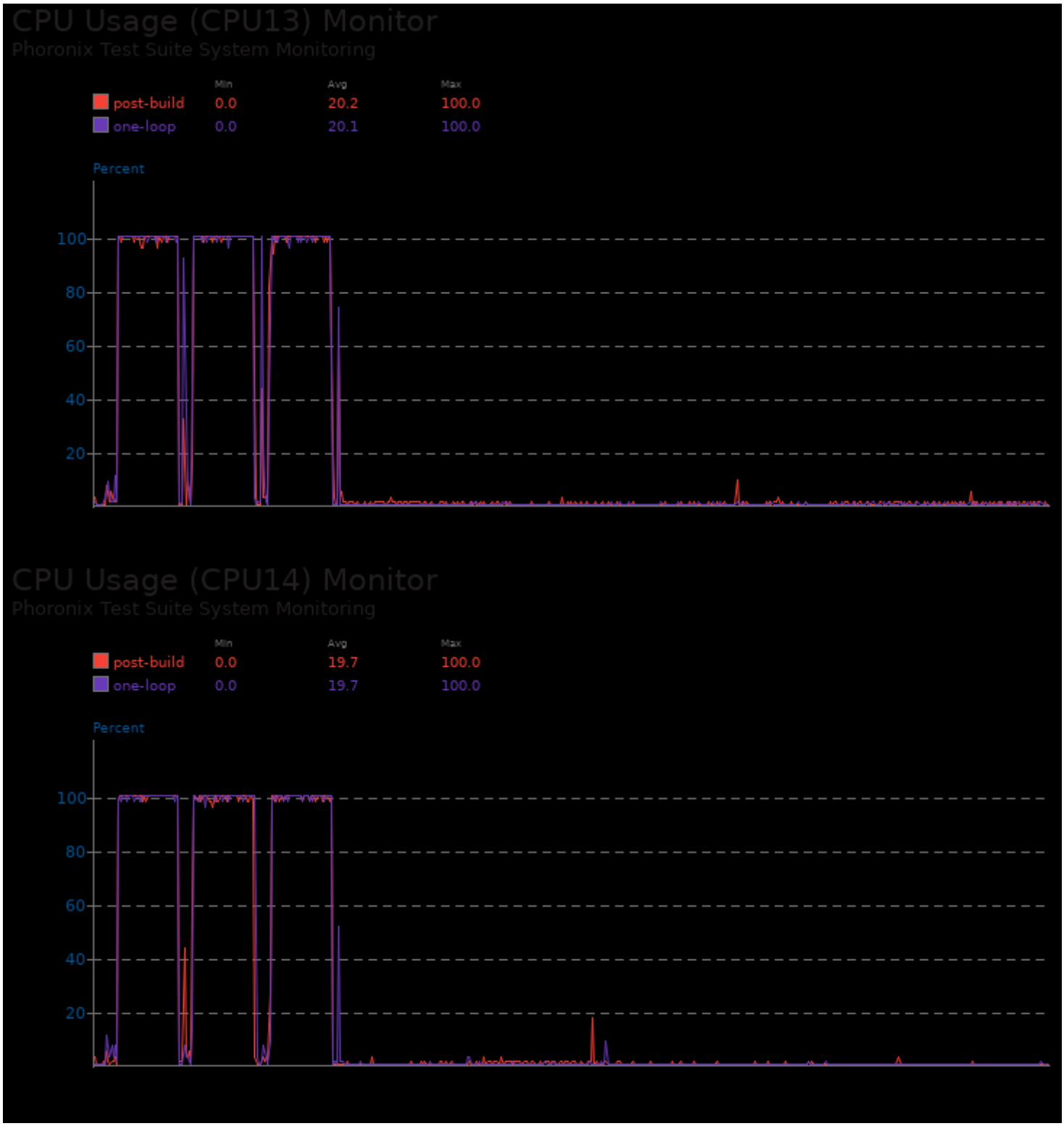

CPU Temperature Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 34.6 41.9 64.0
one-loop 37.5 46.4 62.8
Celsius
100
80
60
40
20
CPU Usage (CPU0) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.9 100.0
one-loop 0.0 20.6 100.0
Percent
100
80
60
40
20


CPU Usage (CPU1) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.1 100.0
one-loop 0.0 20.0 100.0
Percent
100
80
60
40
20
CPU Usage (CPU10) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.2 100.0
one-loop 0.0 19.8 100.0
Percent
100
80
60
40
20

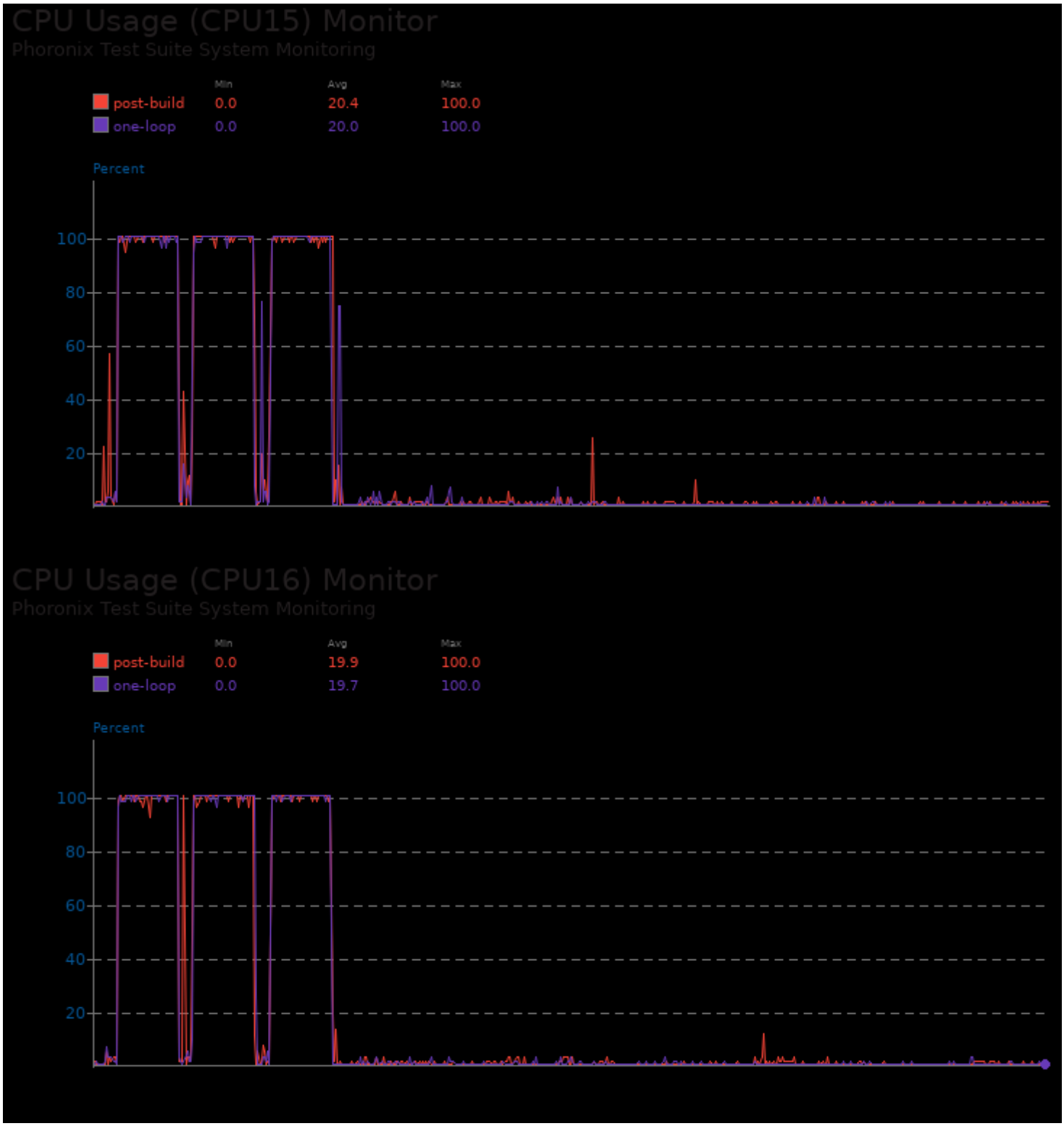
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CPU Usage (CPU11) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.2 100.0
one-loop 0.0 19.9 100.0
Percent
100
80
60
40
20
CPU Usage (CPU12) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.1 100.0
one-loop 0.0 20.0 100.0
Percent
100
80
60
40
20

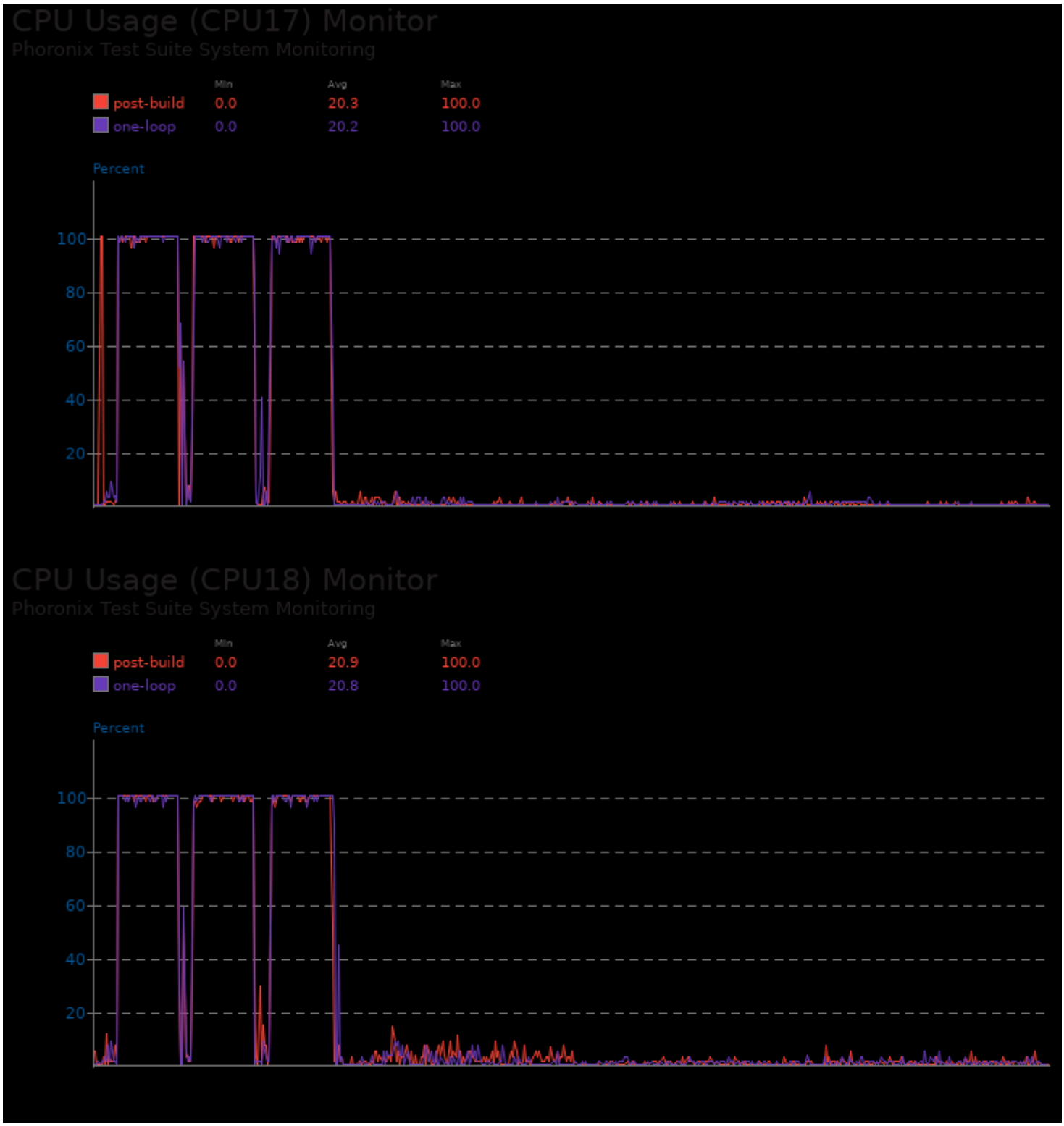
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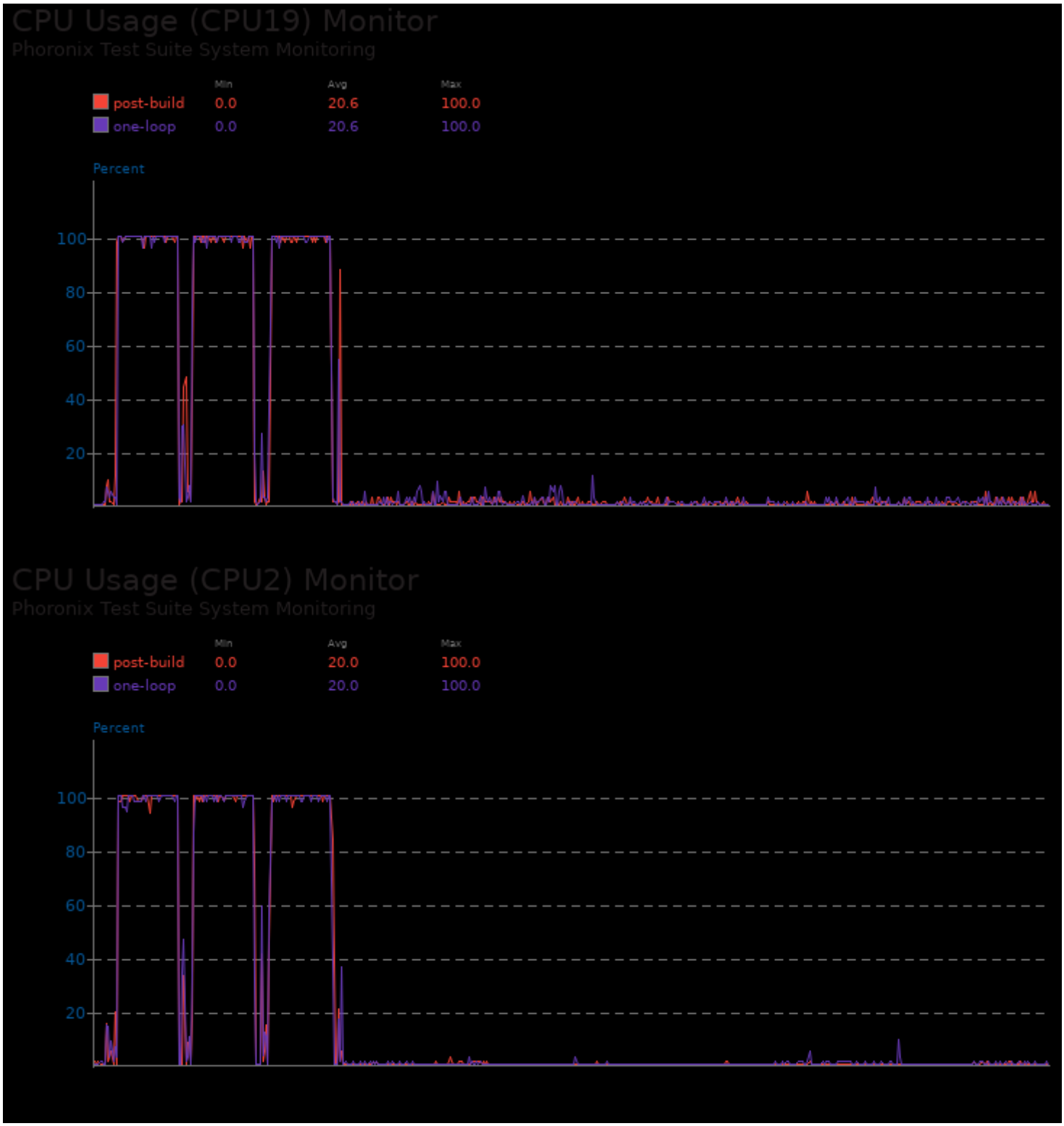

CPU Usage (CPU13) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.2 100.0
one-loop 0.0 20.1 100.0
Percent
100
80
60
40
20
CPU Usage (CPU14) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 19.7 100.0
one-loop 0.0 19.7 100.0
Percent
100
80
60
40
20

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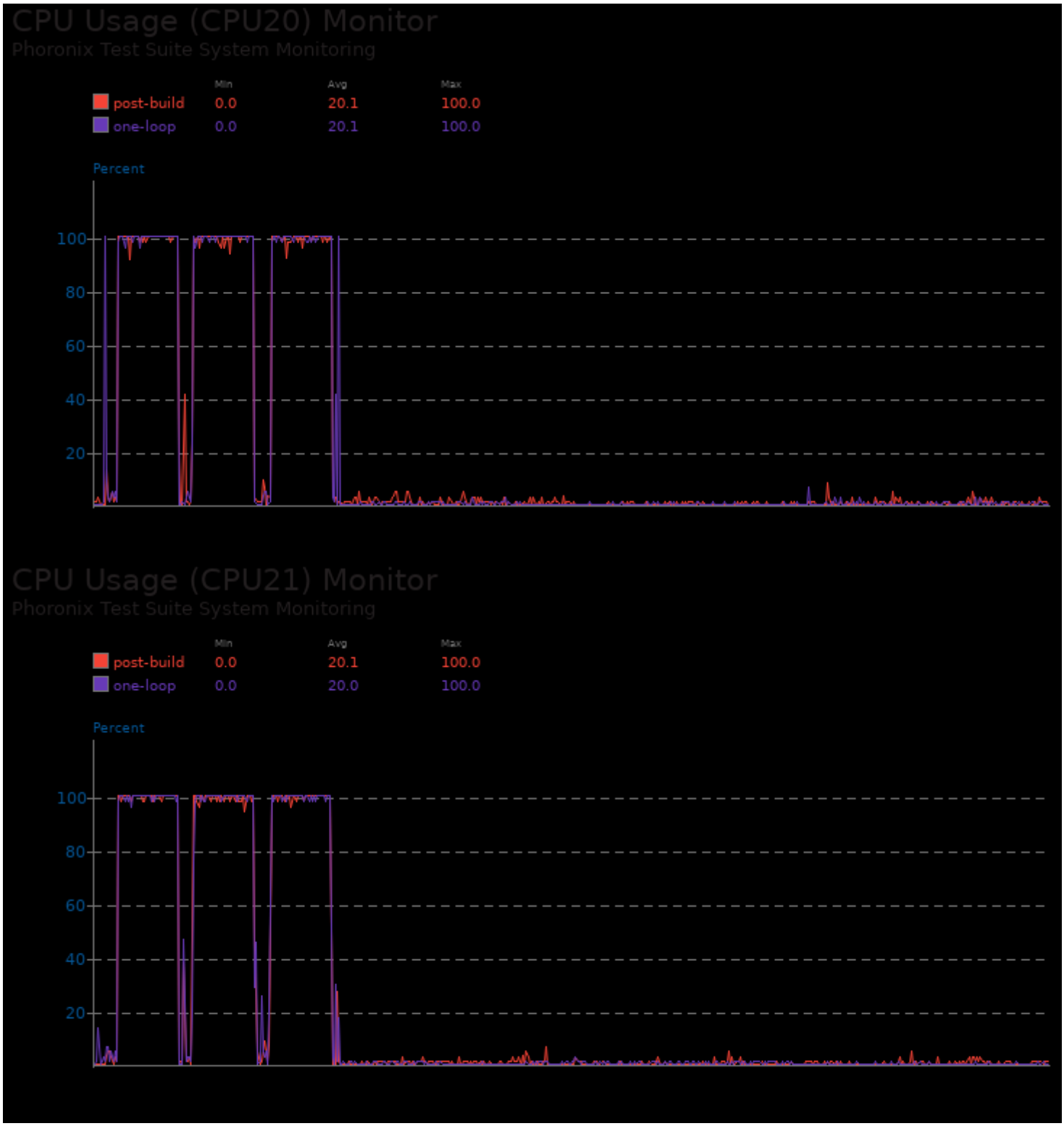

CPU Usage (CPU15) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.4 100.0
one-loop 0.0 20.0 100.0
Percent
100
80
60
40
20
CPU Usage (CPU16) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 19.9 100.0
one-loop 0.0 19.7 100.0
Percent
100
80
60
40
20

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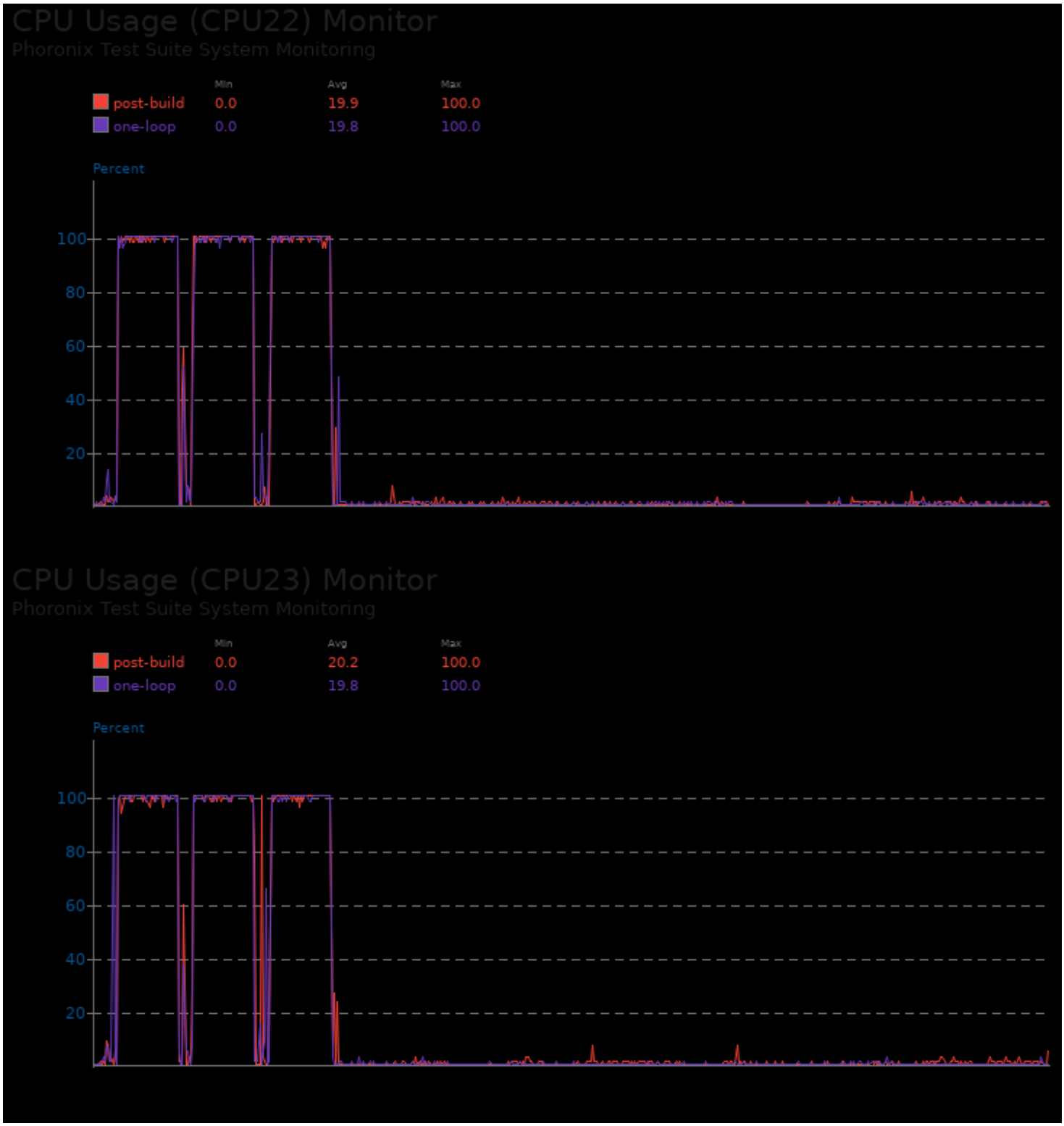

CPU Usage (CPU17) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.3 100.0
one-loop 0.0 20.2 100.0
Percent
100
80
60
40
20
CPU Usage (CPU18) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.9 100.0
one-loop 0.0 20.8 100.0
Percent
100
80
60
40
20


CPU Usage (CPU19) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.6 100.0
one-loop 0.0 20.6 100.0
Percent
100
80
60
40
20
CPU Usage (CPU2) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.0 100.0
one-loop 0.0 20.0 100.0
Percent
100
80
60
40
20

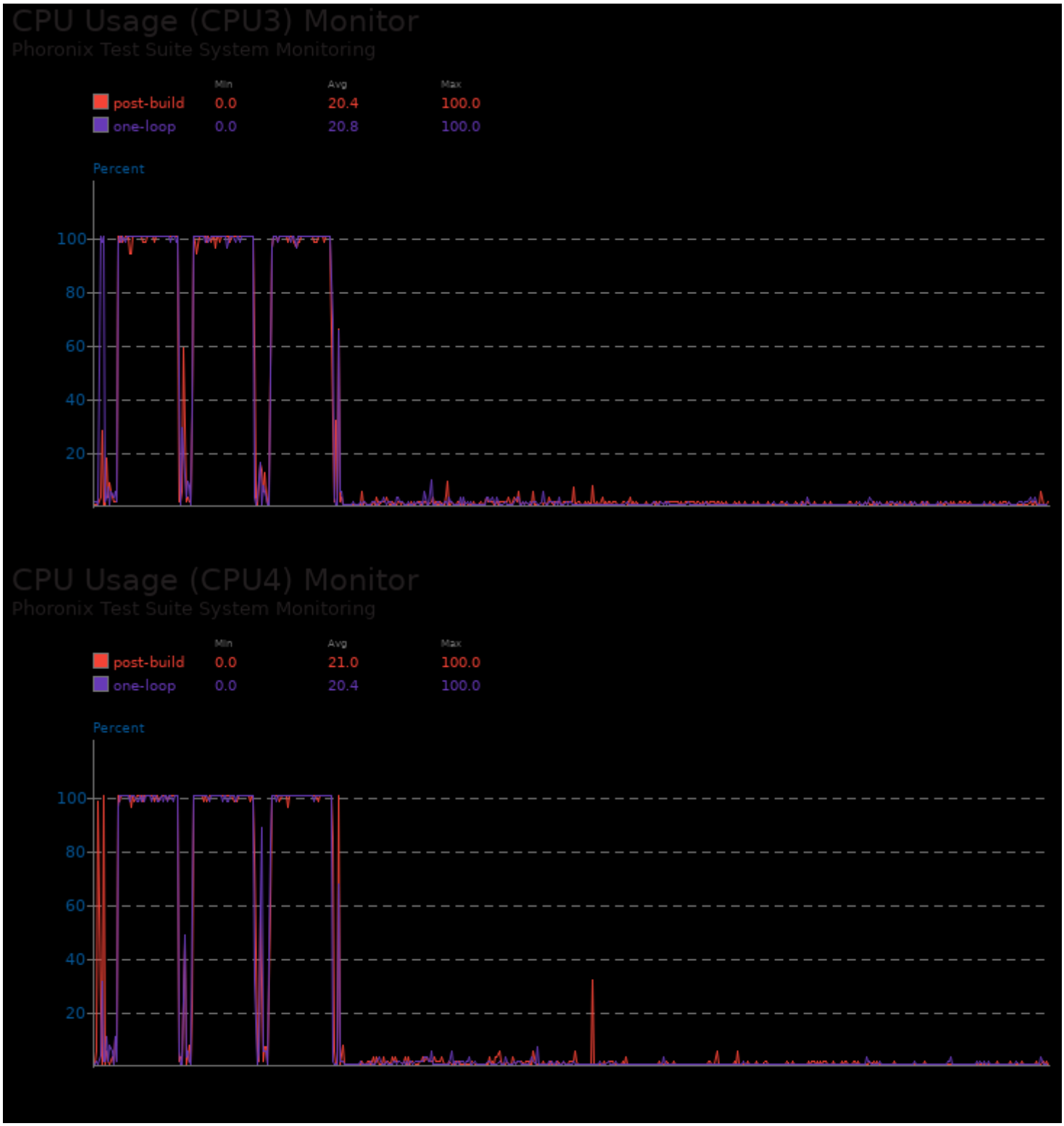
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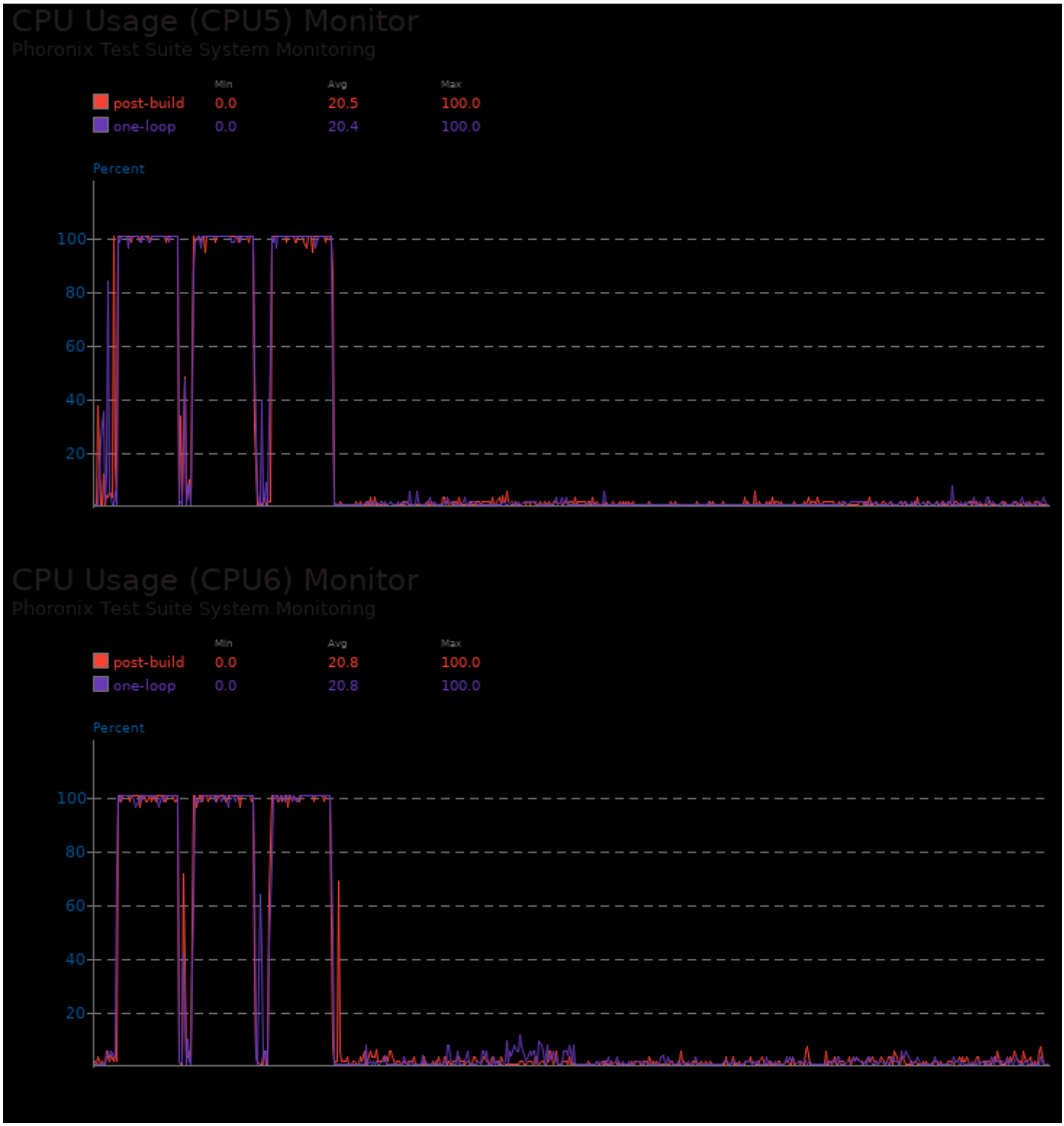

CPU Usage (CPU20) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.1 100.0
one-loop 0.0 20.1 100.0
Percent
100
80
60
40
20
CPU Usage (CPU21) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.1 100.0
one-loop 0.0 20.0 100.0
Percent
100
80
60
40
20

temps

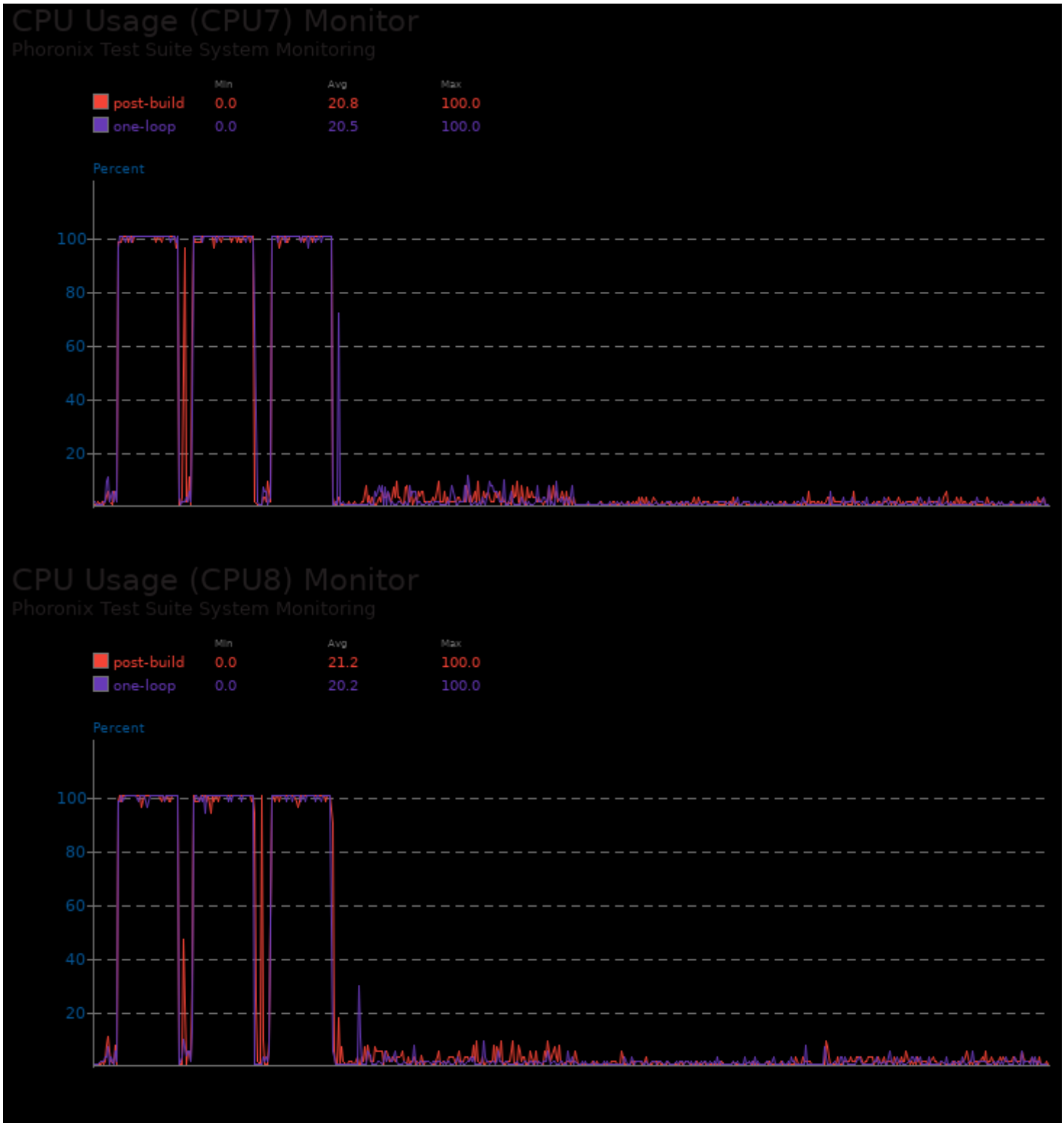

CPU Usage (CPU22) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 19.9 100.0
one-loop 0.0 19.8 100.0
Percent
100
80
60
40
20
CPU Usage (CPU23) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.2 100.0
one-loop 0.0 19.8 100.0
Percent
100
80
60
40
20

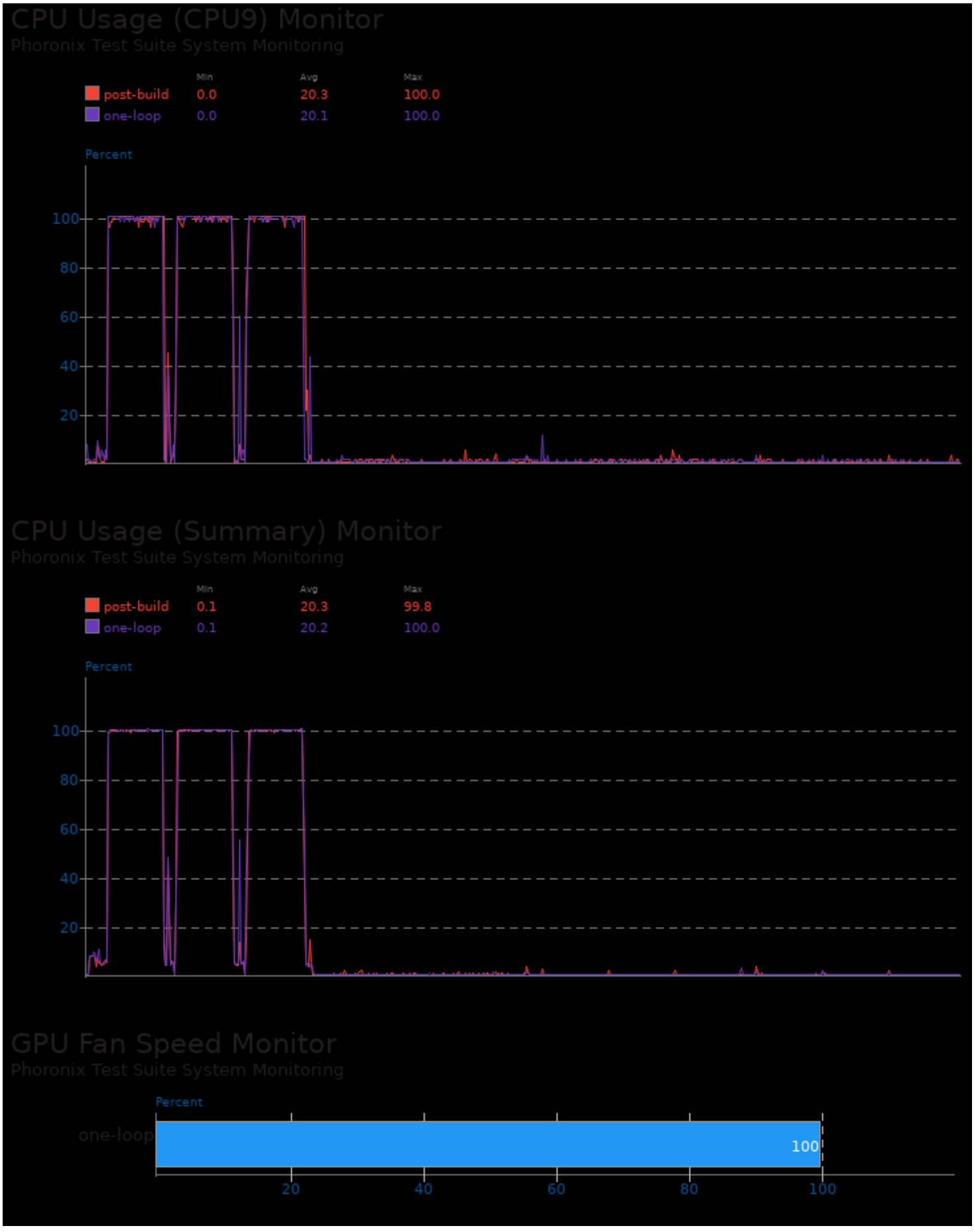
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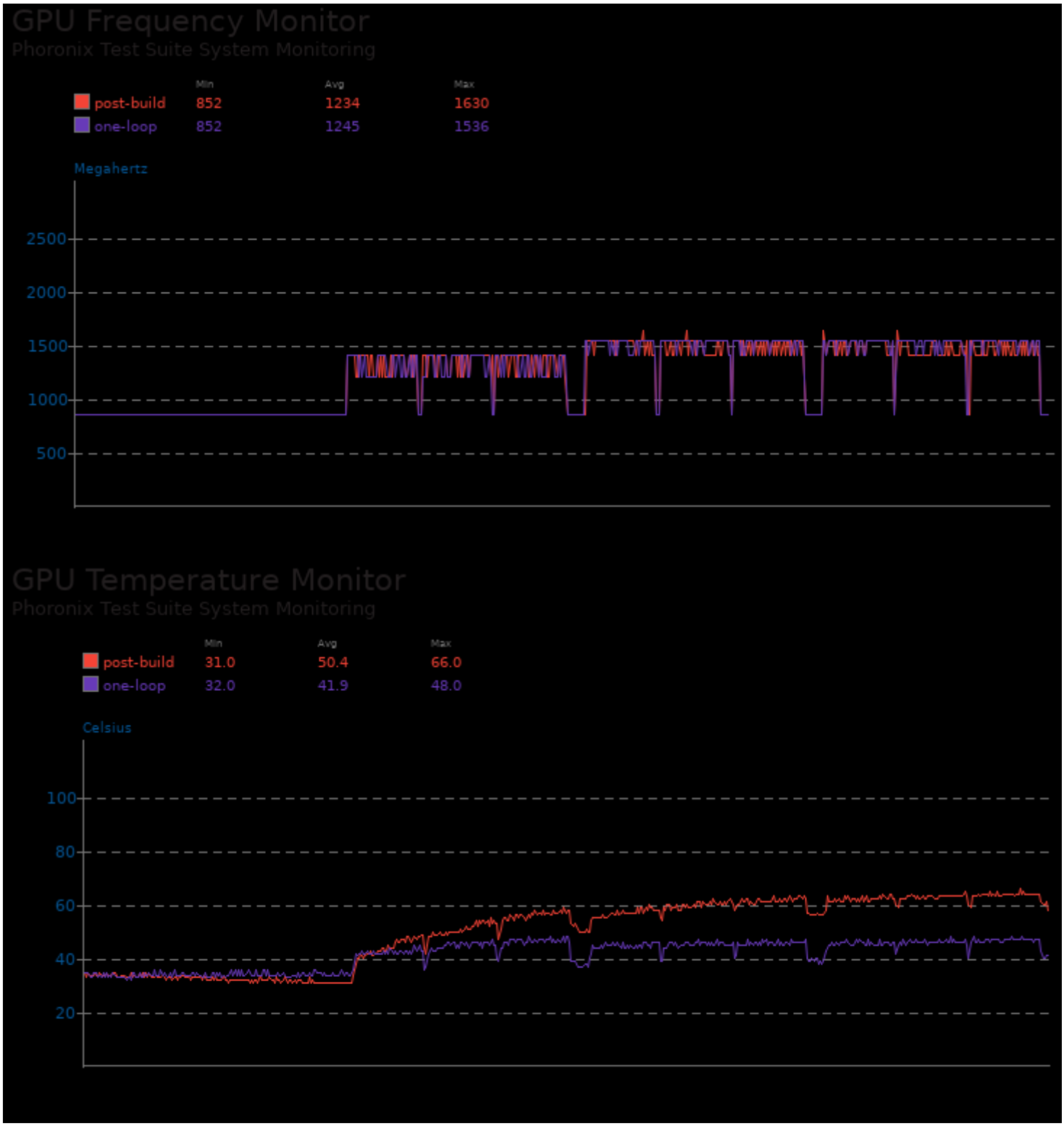

CPU Usage (CPU3) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.4 100.0
one-loop 0.0 20.8 100.0
Percent
100
80
60
40
20
CPU Usage (CPU4) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 21.0 100.0
one-loop 0.0 20.4 100.0
Percent
100
80
60
40
20


CPU Usage (CPU5) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.5 100.0
one-loop 0.0 20.4 100.0
Percent
100
80
60
40
20
CPU Usage (CPU6) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.8 100.0
one-loop 0.0 20.8 100.0
Percent
100
80
60
40
20

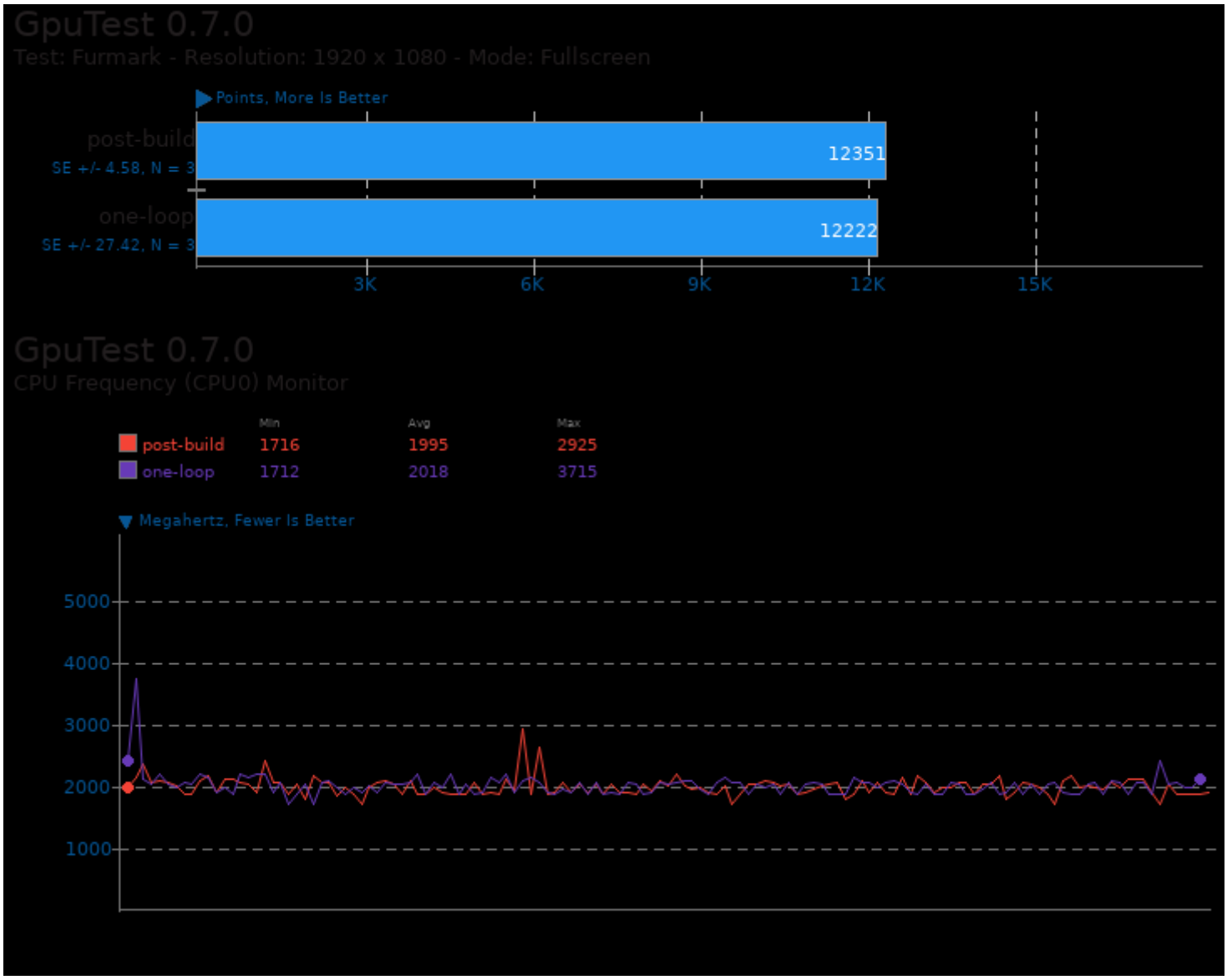
temps


CPU Usage (CPU7) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.8 100.0
one-loop 0.0 20.5 100.0
Percent
100
80
60
40
20
CPU Usage (CPU8) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 21.2 100.0
one-loop 0.0 20.2 100.0
Percent
100
80
60
40
20


CPU Usage (CPU9) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.0 20.3 100.0
one-loop 0.0 20.1 100.0
Percent
100
80
60
40
20
CPU Usage (Summary) Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 0.1 20.3 99.8
one-loop 0.1 20.2 100.0
Percent
100
80
60
40
20
GPU Fan Speed Monitor
Phoronix Test Suite System Monitoring
Percent
one-loop
100
20
40
60
80
100


GPU Frequency Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 852 1234 1630
one-loop 852 1245 1536
Megahertz
2500
2000
1500
1000
500
GPU Temperature Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 31.0 50.4 66.0
one-loop 32.0 41.9 48.0
Celsius
100
80
60
40
20

temps


GpuTest 0.7.0
Test: Furmark - Resolution: 1920 x 1080 - Mode: Fullscreen
Points, More Is Better
post-build
SE +/- 4.58, N = 3
12351
one-loop
SE +/- 27.42, N = 3
12222
3K
6K
9K
12K
15K
GpuTest 0.7.0
CPU Frequency (CPU0) Monitor
Min
Avg
Max
post-build 1716 1995 2925
one-loop 1712 2018 3715
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

temps


GpuTest 0.7.0
CPU Frequency (CPU1) Monitor
Min
Avg
Max
post-build 1714 1940 3132
one-loop 1715 1964 2409
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU2) Monitor
Min
Avg
Max
post-build 1715 1979 2900
one-loop 1714 1983 2480
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU3) Monitor
Min
Avg
Max
post-build 1729 2044 2647
one-loop 1833 2087 2280
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU4) Monitor
Min
Avg
Max
post-build 1715 2023 2982
one-loop 1808 2060 2611
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU5) Monitor
Min
Avg
Max
post-build 1801 2013 2405
one-loop 1834 2060 2658
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU6) Monitor
Min
Avg
Max
post-build 1920 2091 2838
one-loop 1716 2063 2399
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU7) Monitor
Min
Avg
Max
post-build 1862 2135 2949
one-loop 1716 2090 2690
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU8) Monitor
Min
Avg
Max
post-build 1978 2187 4095
one-loop 1856 2106 3555
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

temps


GpuTest 0.7.0
CPU Frequency (CPU9) Monitor
Min
Avg
Max
post-build 1715 2014 2901
one-loop 1878 2011 3697
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
GpuTest 0.7.0
CPU Frequency (CPU10) Monitor
Min
Avg
Max
post-build 1716 2029 2897
one-loop 1715 1962 2403
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU11) Monitor
Min
Avg
Max
post-build 1714 2038 2644
one-loop 1713 1915 2186
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU12) Monitor
Min
Avg
Max
post-build 1714 1954 2412
one-loop 1715 1982 2739
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU13) Monitor
Min
Avg
Max
post-build 1716 1969 3175
one-loop 1713 1936 2409
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU14) Monitor
Min
Avg
Max
post-build 1715 1938 2414
one-loop 1714 1931 2569
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU15) Monitor
Min
Avg
Max
post-build 1715 2045 2789
one-loop 1827 2093 2731
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU16) Monitor
Min
Avg
Max
post-build 1716 2030 3049
one-loop 1714 2056 3181
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

temps


GpuTest 0.7.0
CPU Frequency (CPU17) Monitor
Min
Avg
Max
post-build 1714 2015 2407
one-loop 1885 2032 2413
Megahertz, Fewer Is Better
3000
2400
1800
1200
600
GpuTest 0.7.0
CPU Frequency (CPU18) Monitor
Min
Avg
Max
post-build 1885 2133 2196
one-loop 1875 2093 3094
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

temps


GpuTest 0.7.0
CPU Frequency (CPU19) Monitor
Min
Avg
Max
post-build 1888 2102 2232
one-loop 1826 2076 2258
Megahertz, Fewer Is Better
3000
2400
1800
1200
600
GpuTest 0.7.0
CPU Frequency (CPU20) Monitor
Min
Avg
Max
post-build 1980 2118 3606
one-loop 1889 2074 2782
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

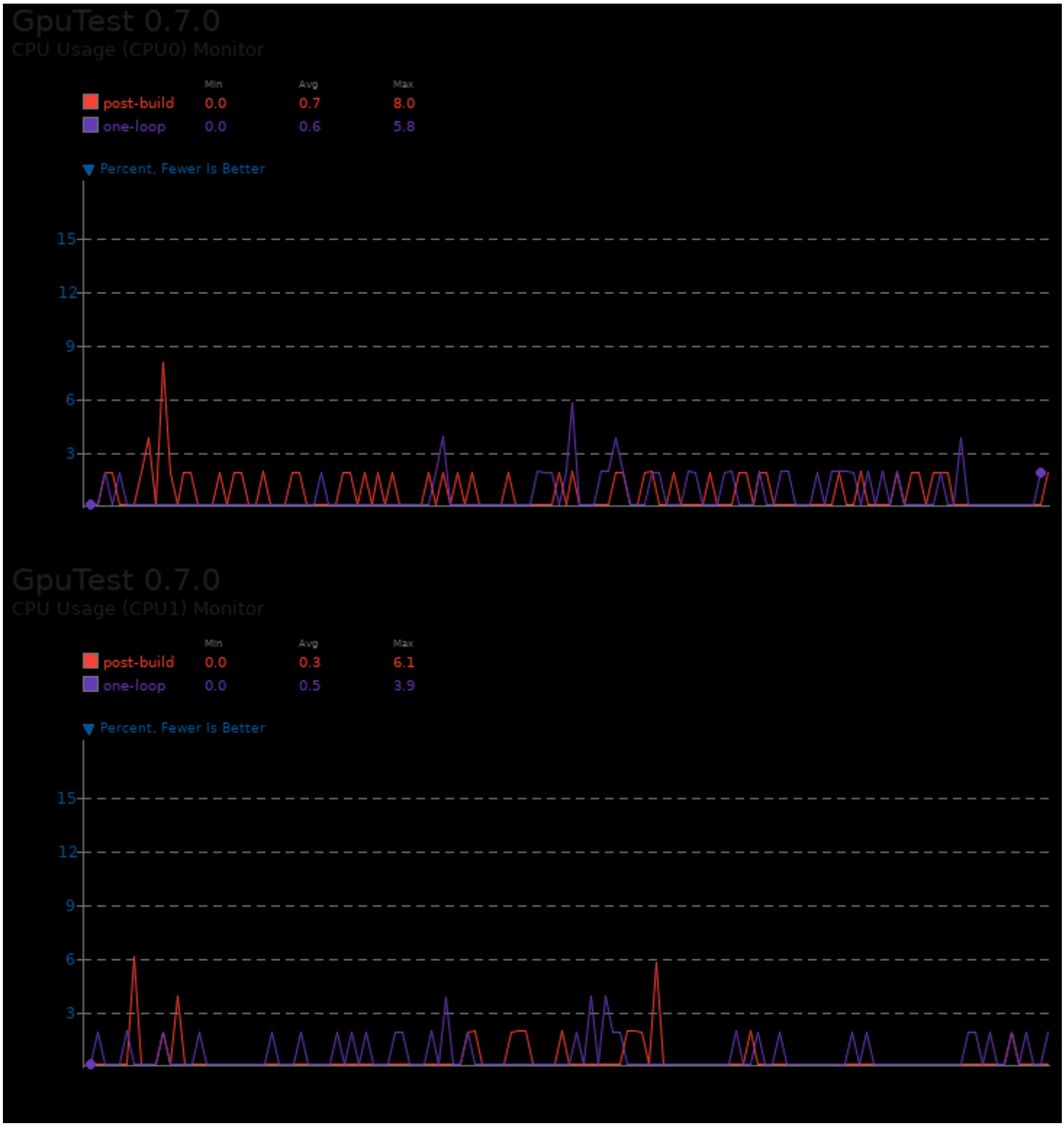
temps


GpuTest 0.7.0
CPU Frequency (CPU21) Monitor
Min
Avg
Max
post-build 1714 1996 3400
one-loop 1884 1958 3183
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU22) Monitor
Min
Avg
Max
post-build 1714 1981 2994
one-loop 1714 1946 2196
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

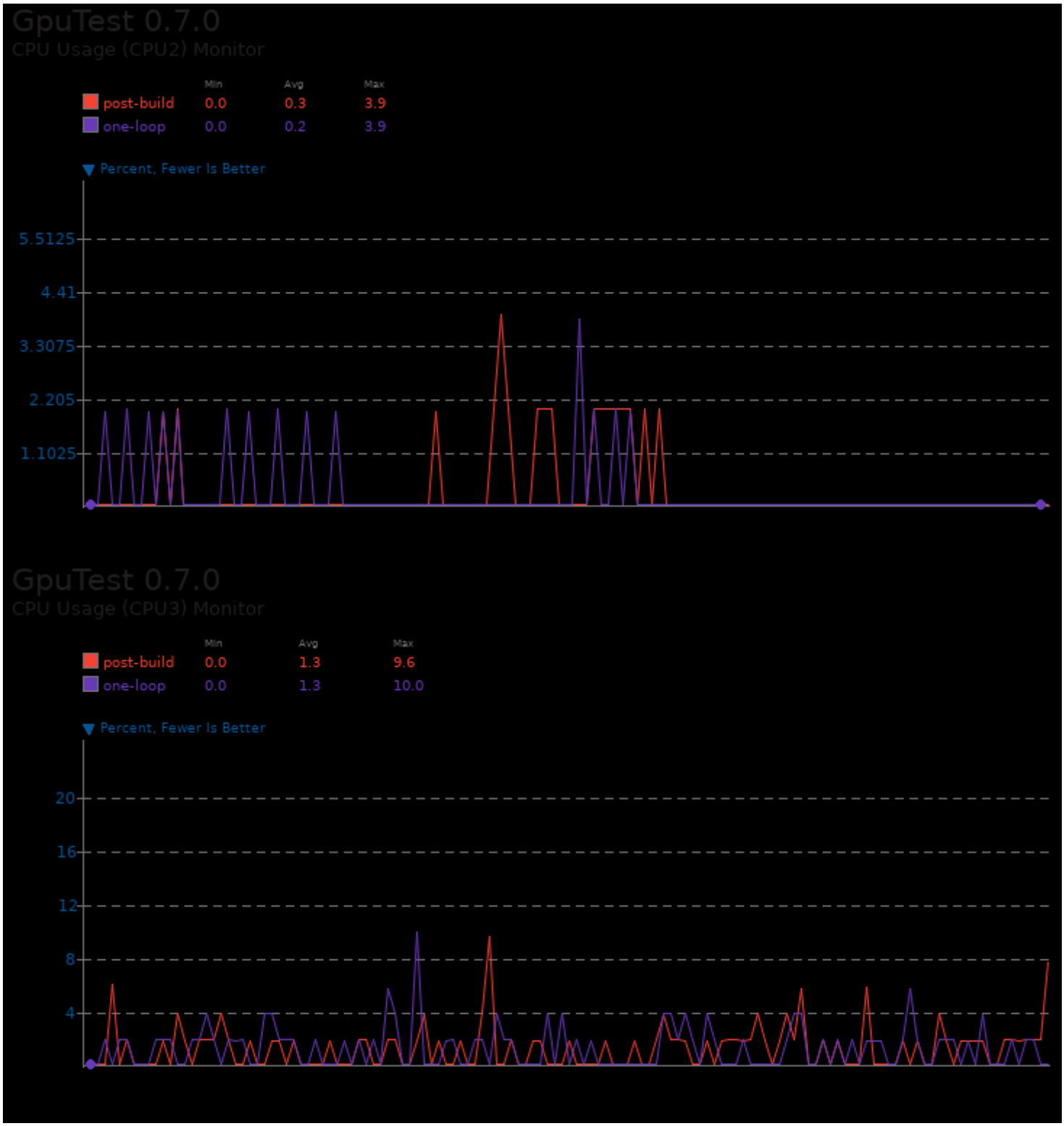
temps


GpuTest 0.7.0
CPU Frequency (CPU23) Monitor
Min
Avg
Max
post-build 1715 1996 2863
one-loop 1714 1932 2190
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Temperature Monitor
Min
Avg
Max
post-build 35.0 37.6 49.0
one-loop 37.5 41.0 51.1
Celsius, Fewer Is Better
75
60
45
30
15

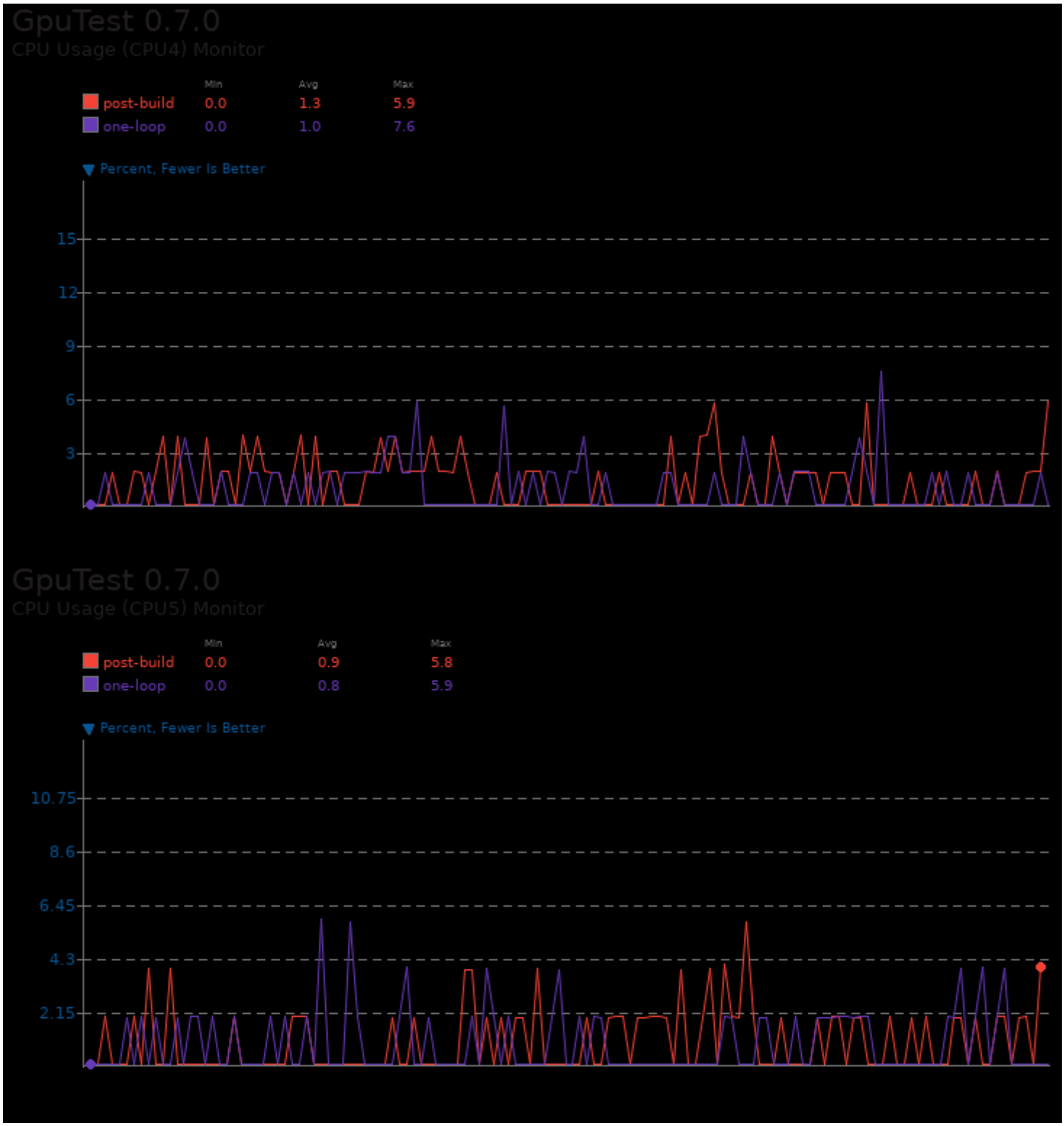
temps


GpuTest 0.7.0
CPU Usage (CPU0) Monitor
Min
Avg
Max
post-build 0.0 0.7 8.0
one-loop 0.0 0.6 5.8
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU1) Monitor
Min
Avg
Max
post-build 0.0 0.3 6.1
one-loop 0.0 0.5 3.9
Percent, Fewer Is Better
15
12
9
6
3

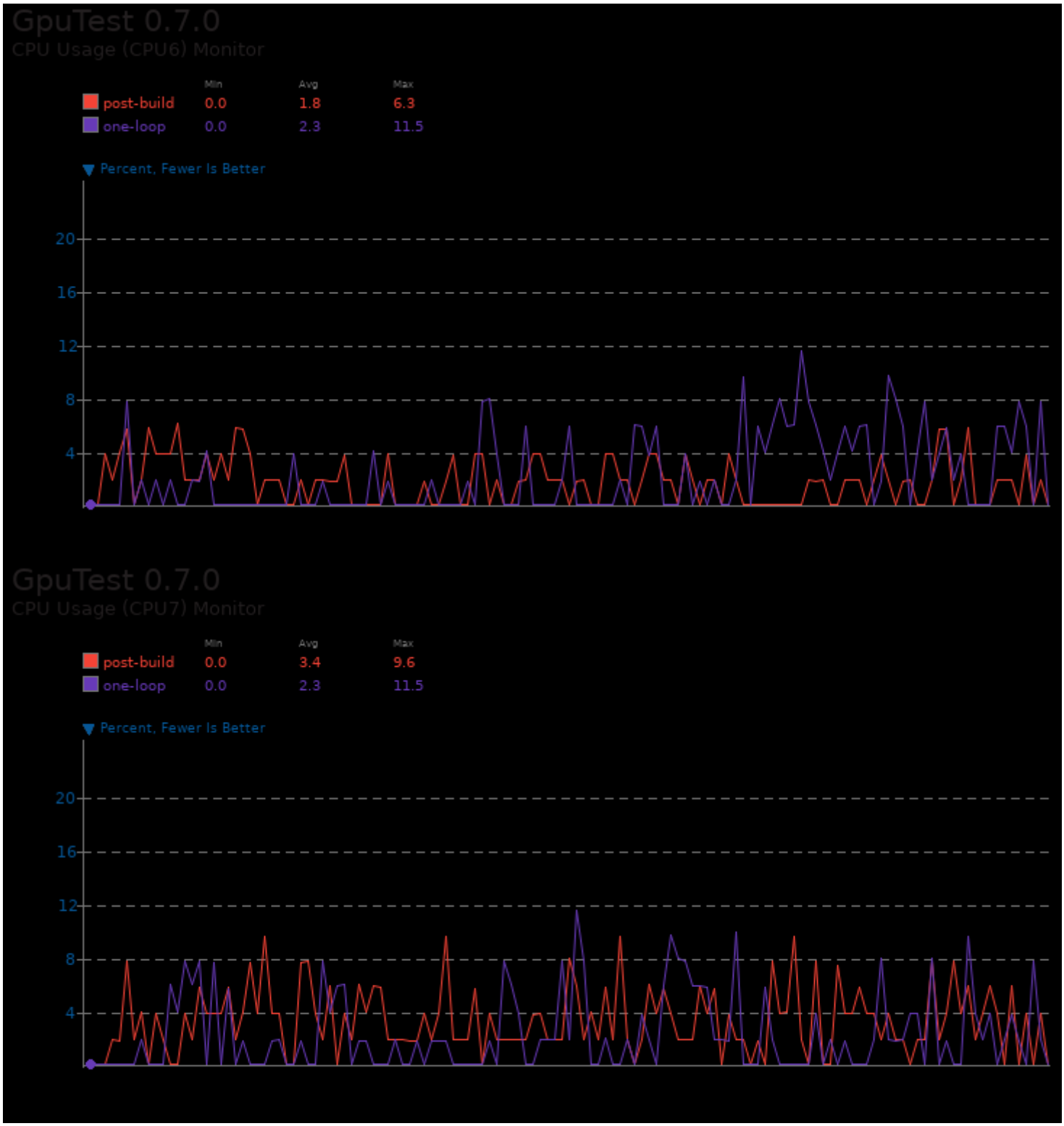
temps


GpuTest 0.7.0
CPU Usage (CPU2) Monitor
Min Avg Max
post-build 0.0 0.3 3.9
one-loop 0.0 0.2 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025
GpuTest 0.7.0
CPU Usage (CPU3) Monitor
Min Avg Max
post-build 0.0 1.3 9.6
one-loop 0.0 1.3 10.0
Percent, Fewer Is Better
20
16
12
8
4

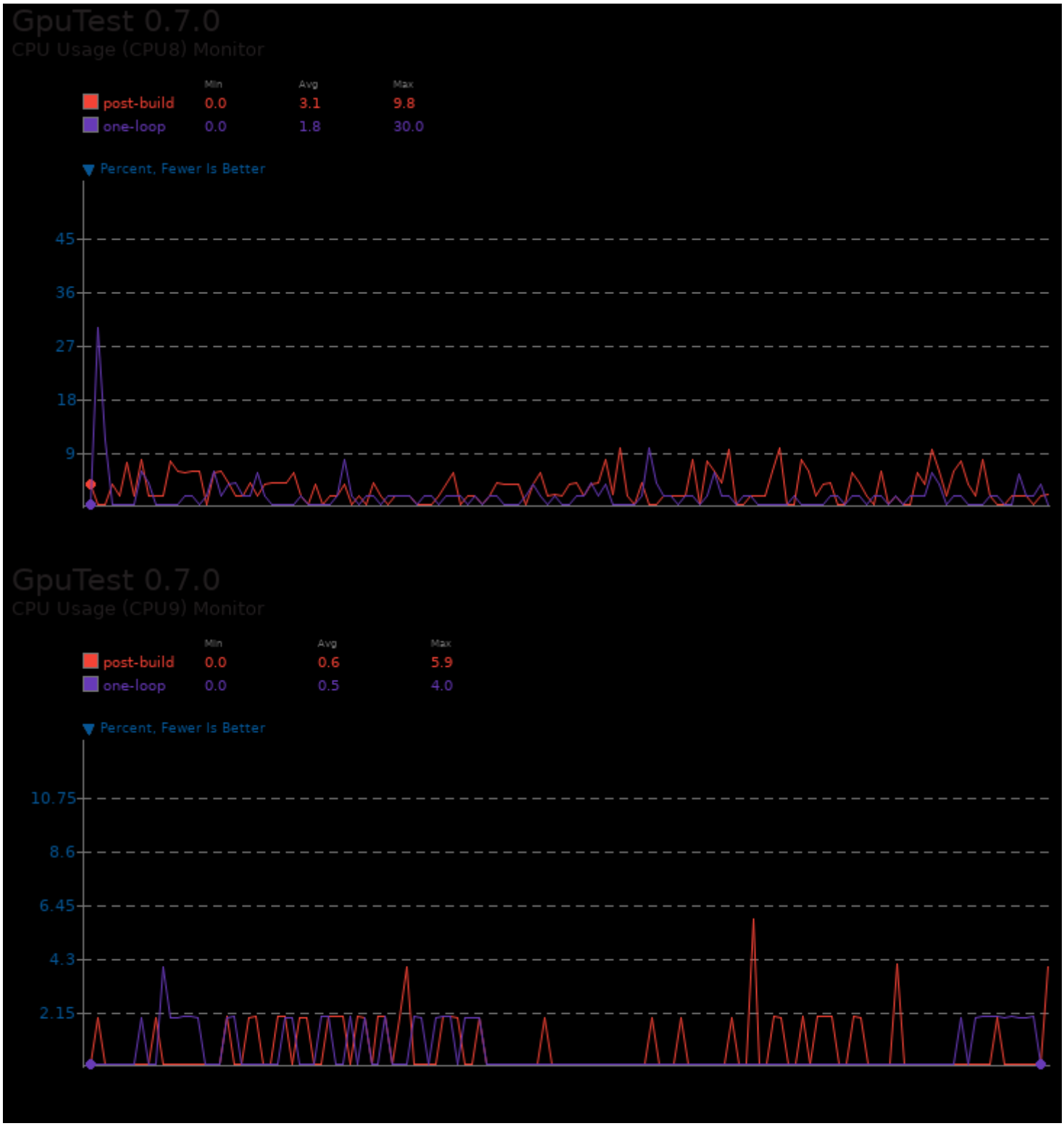
temps


GpuTest 0.7.0
CPU Usage (CPU4) Monitor
Min
Avg
Max
post-build 0.0 1.3 5.9
one-loop 0.0 1.0 7.6
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU5) Monitor
Min
Avg
Max
post-build 0.0 0.9 5.8
one-loop 0.0 0.8 5.9
Percent, Fewer Is Better
10.75
8.6
6.45
4.3
2.15

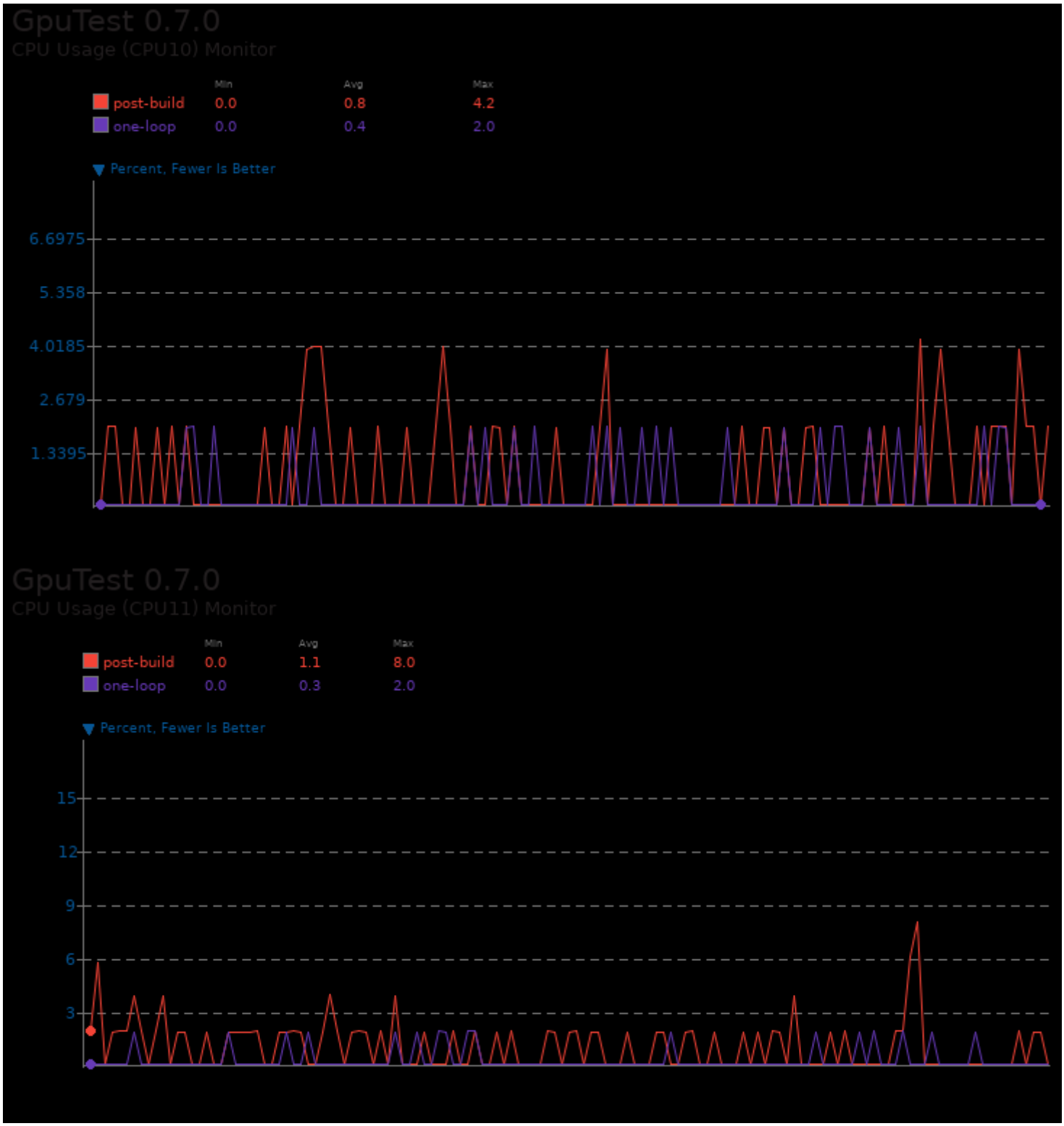
temps


GpuTest 0.7.0
CPU Usage (CPU6) Monitor
Min
Avg
Max
post-build 0.0 1.8 6.3
one-loop 0.0 2.3 11.5
Percent, Fewer Is Better
20
16
12
8
4
GpuTest 0.7.0
CPU Usage (CPU7) Monitor
Min
Avg
Max
post-build 0.0 3.4 9.6
one-loop 0.0 2.3 11.5
Percent, Fewer Is Better
20
16
12
8
4

temps


GpuTest 0.7.0
CPU Usage (CPU8) Monitor
Min
Avg
Max
post-build 0.0 3.1 9.8
one-loop 0.0 1.8 30.0
Percent, Fewer Is Better
45
36
27
18
9
GpuTest 0.7.0
CPU Usage (CPU9) Monitor
Min
Avg
Max
post-build 0.0 0.6 5.9
one-loop 0.0 0.5 4.0
Percent, Fewer Is Better
10.75
8.6
6.45
4.3
2.15

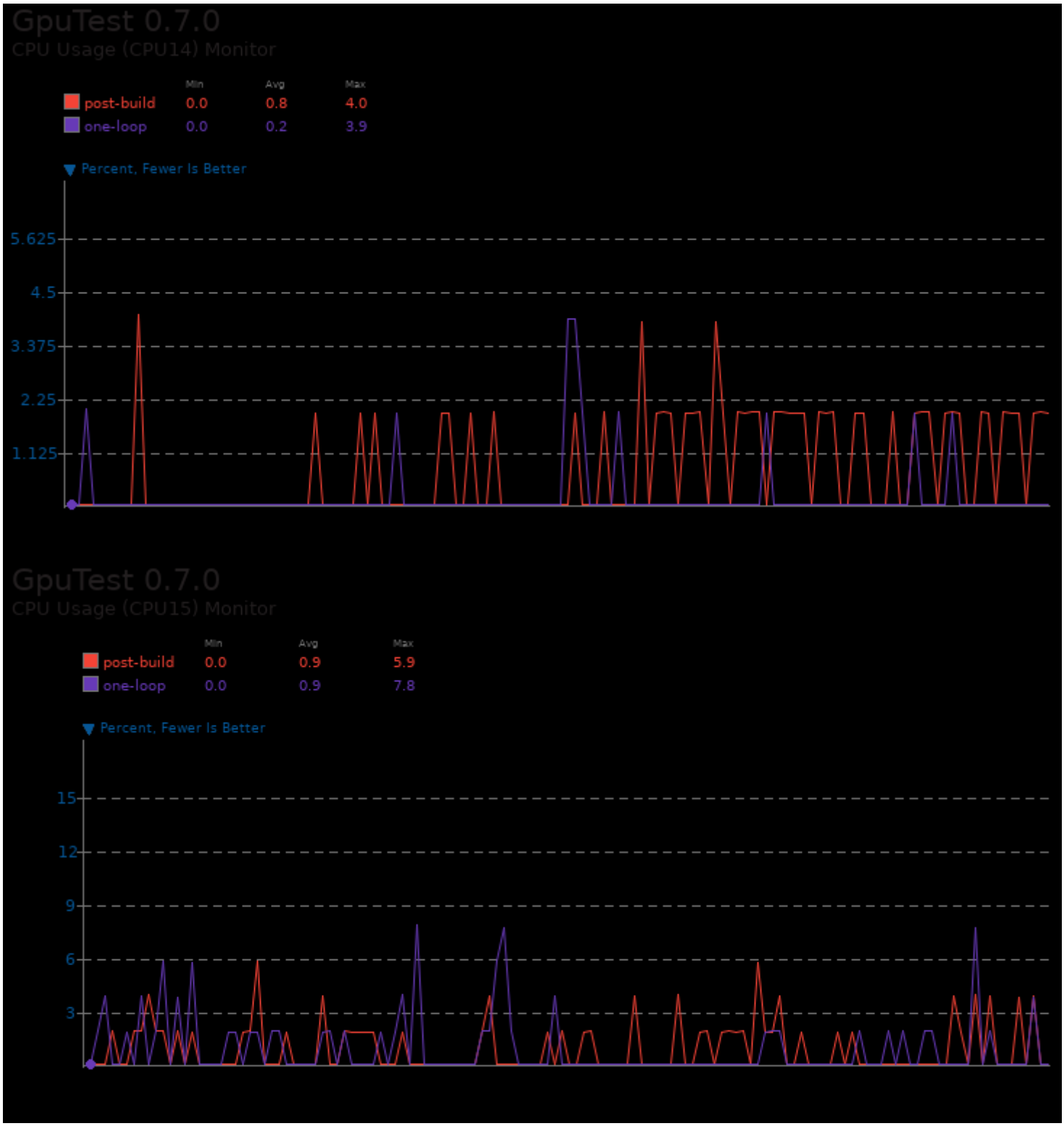
temps


GpuTest 0.7.0
CPU Usage (CPU10) Monitor
Min
Avg
Max
post-build 0.0 0.8 4.2
one-loop 0.0 0.4 2.0
Percent, Fewer Is Better
6.6975
5.358
4.0185
2.679
1.3395
GpuTest 0.7.0
CPU Usage (CPU11) Monitor
Min
Avg
Max
post-build 0.0 1.1 8.0
one-loop 0.0 0.3 2.0
Percent, Fewer Is Better
15
12
9
6
3

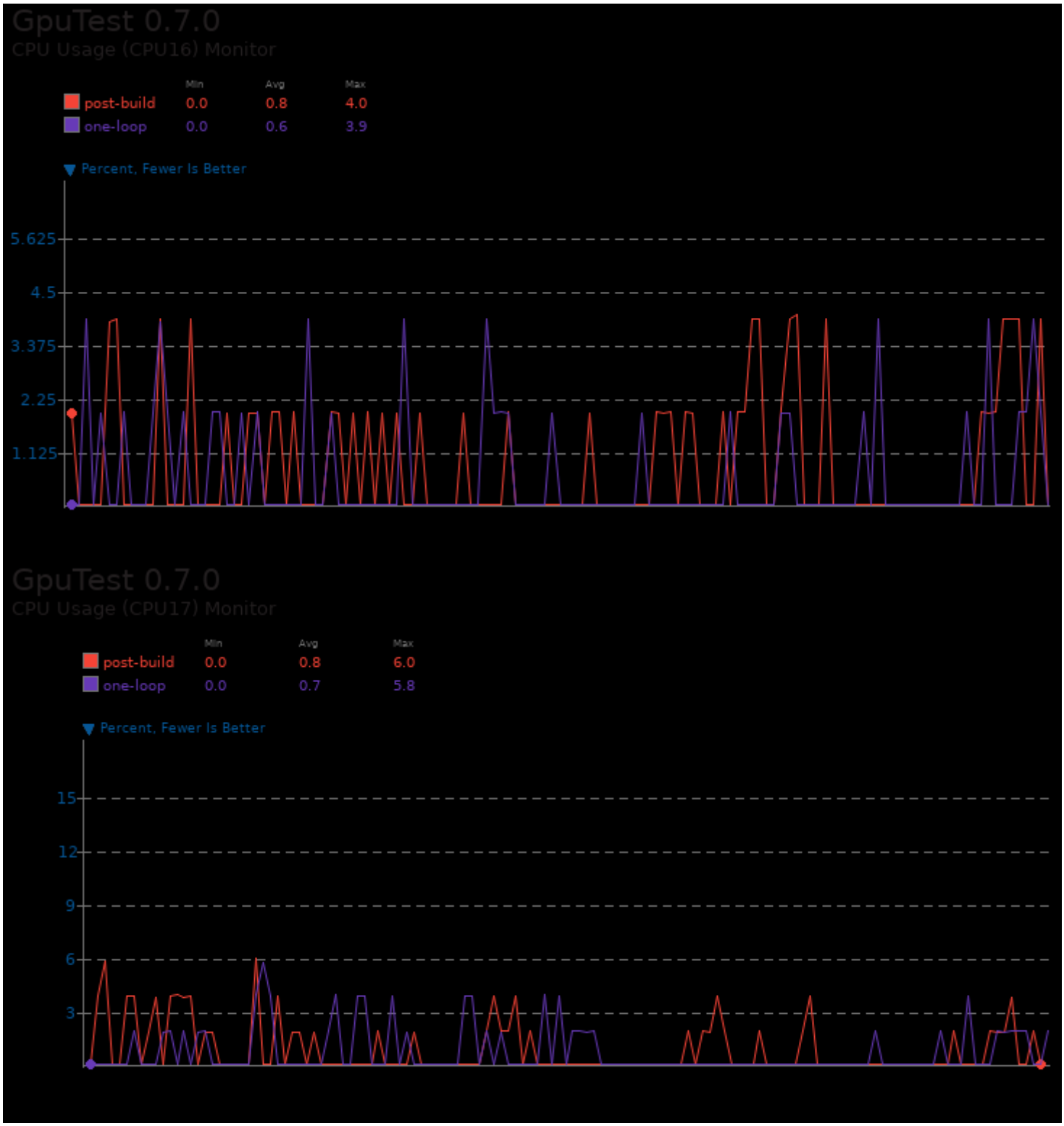
temps


GpuTest 0.7.0
CPU Usage (CPU12) Monitor
Min
Avg
Max
post-build 0.0 0.6 4.0
one-loop 0.0 0.4 4.0
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125
GpuTest 0.7.0
CPU Usage (CPU13) Monitor
Min
Avg
Max
post-build 0.0 0.8 3.9
one-loop 0.0 0.1 2.0
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

temps


GpuTest 0.7.0
CPU Usage (CPU14) Monitor
Min
Avg
Max
post-build 0.0 0.8 4.0
one-loop 0.0 0.2 3.9
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125
GpuTest 0.7.0
CPU Usage (CPU15) Monitor
Min
Avg
Max
post-build 0.0 0.9 5.9
one-loop 0.0 0.9 7.8
Percent, Fewer Is Better
15
12
9
6
3

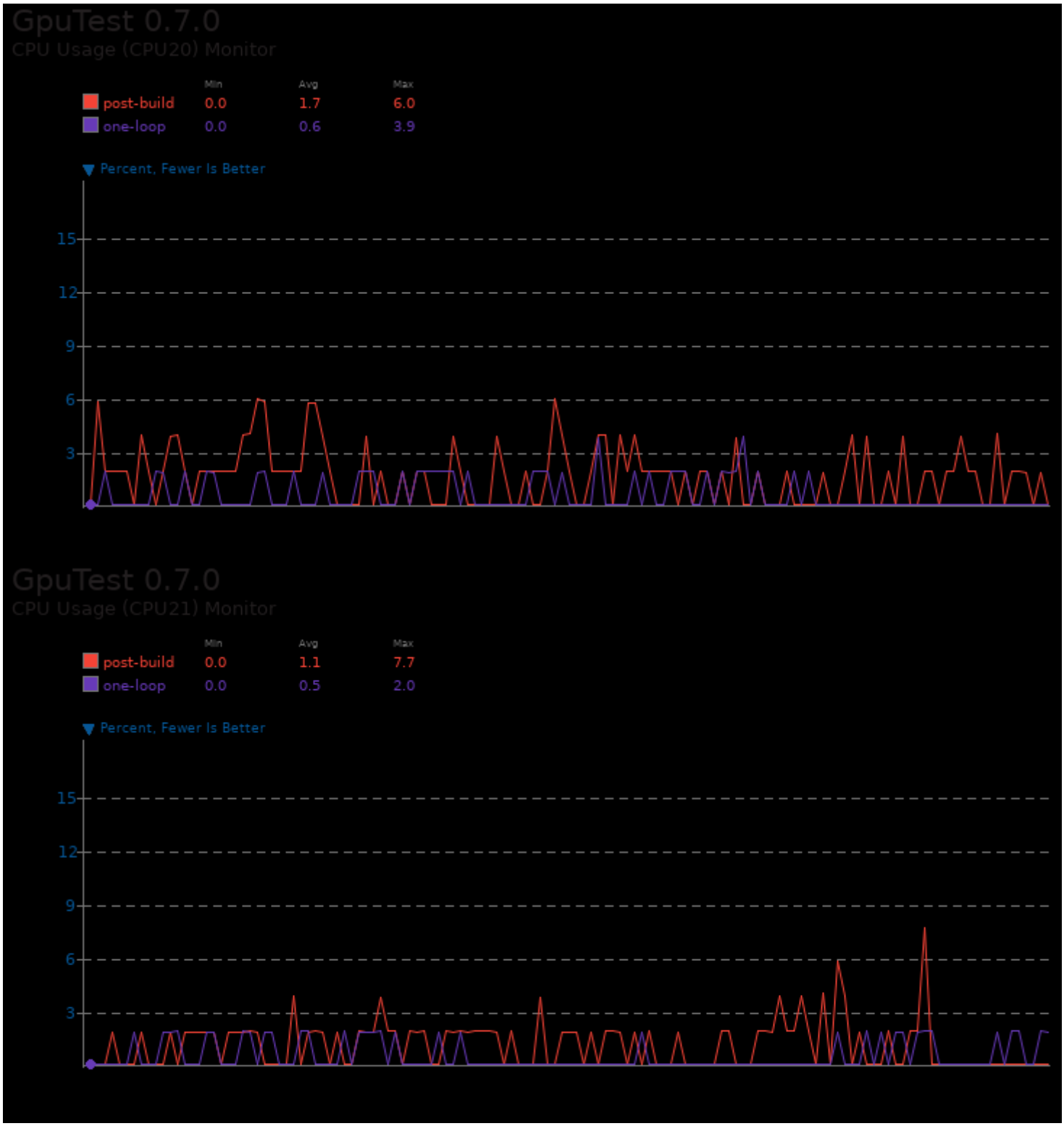
temps


GpuTest 0.7.0
CPU Usage (CPU16) Monitor
Min
Avg
Max
post-build 0.0 0.8 4.0
one-loop 0.0 0.6 3.9
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125
GpuTest 0.7.0
CPU Usage (CPU17) Monitor
Min
Avg
Max
post-build 0.0 0.8 6.0
one-loop 0.0 0.7 5.8
Percent, Fewer Is Better
15
12
9
6
3

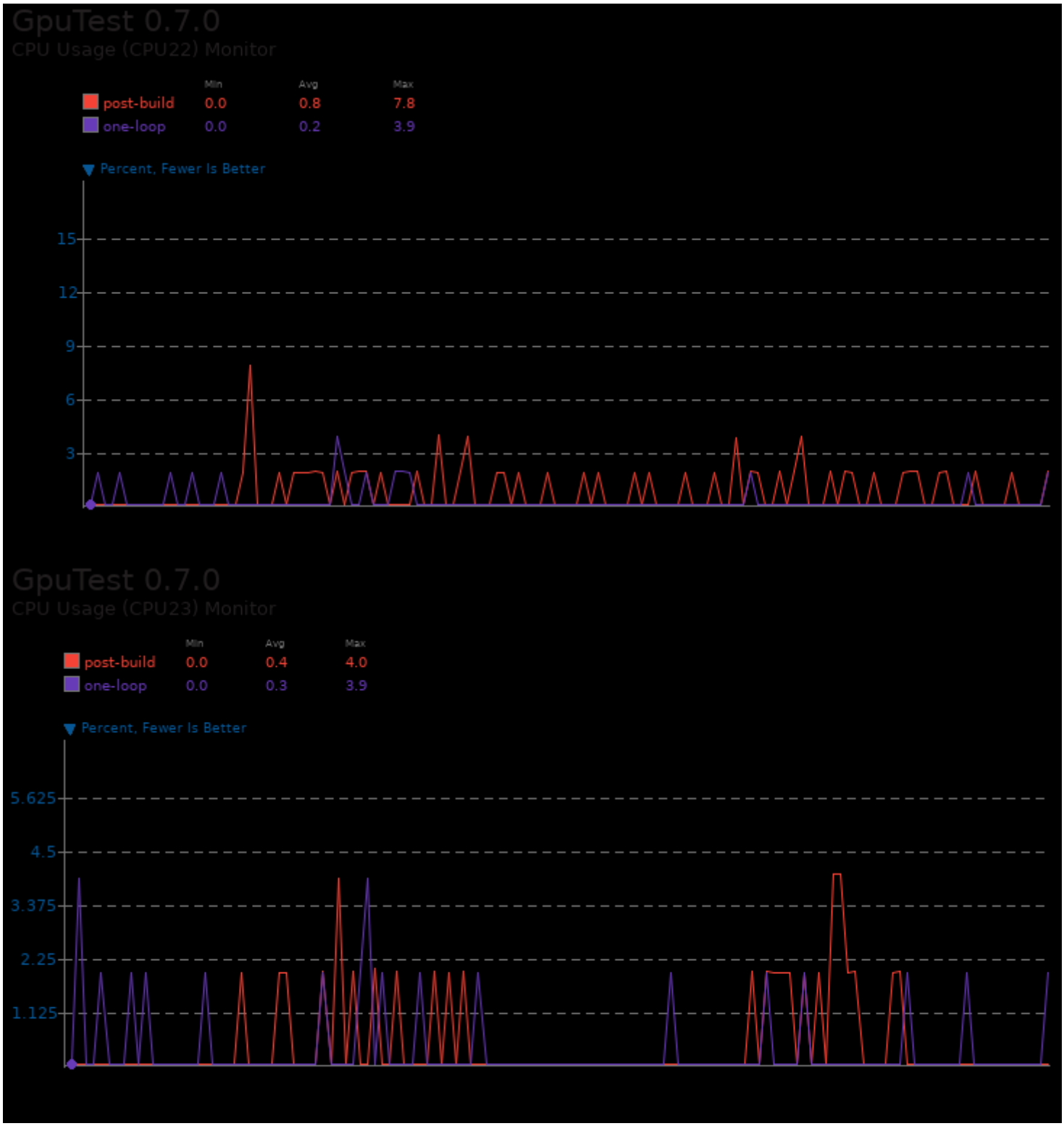
temps


GpuTest 0.7.0
CPU Usage (CPU18) Monitor
Min
Avg
Max
post-build 0.0 3.5 14.8
one-loop 0.0 1.7 9.6
Percent, Fewer Is Better
25
20
15
10
5
GpuTest 0.7.0
CPU Usage (CPU19) Monitor
Min
Avg
Max
post-build 0.0 1.4 6.1
one-loop 0.0 1.8 9.6
Percent, Fewer Is Better
22.1
17.68
13.26
8.84
4.42

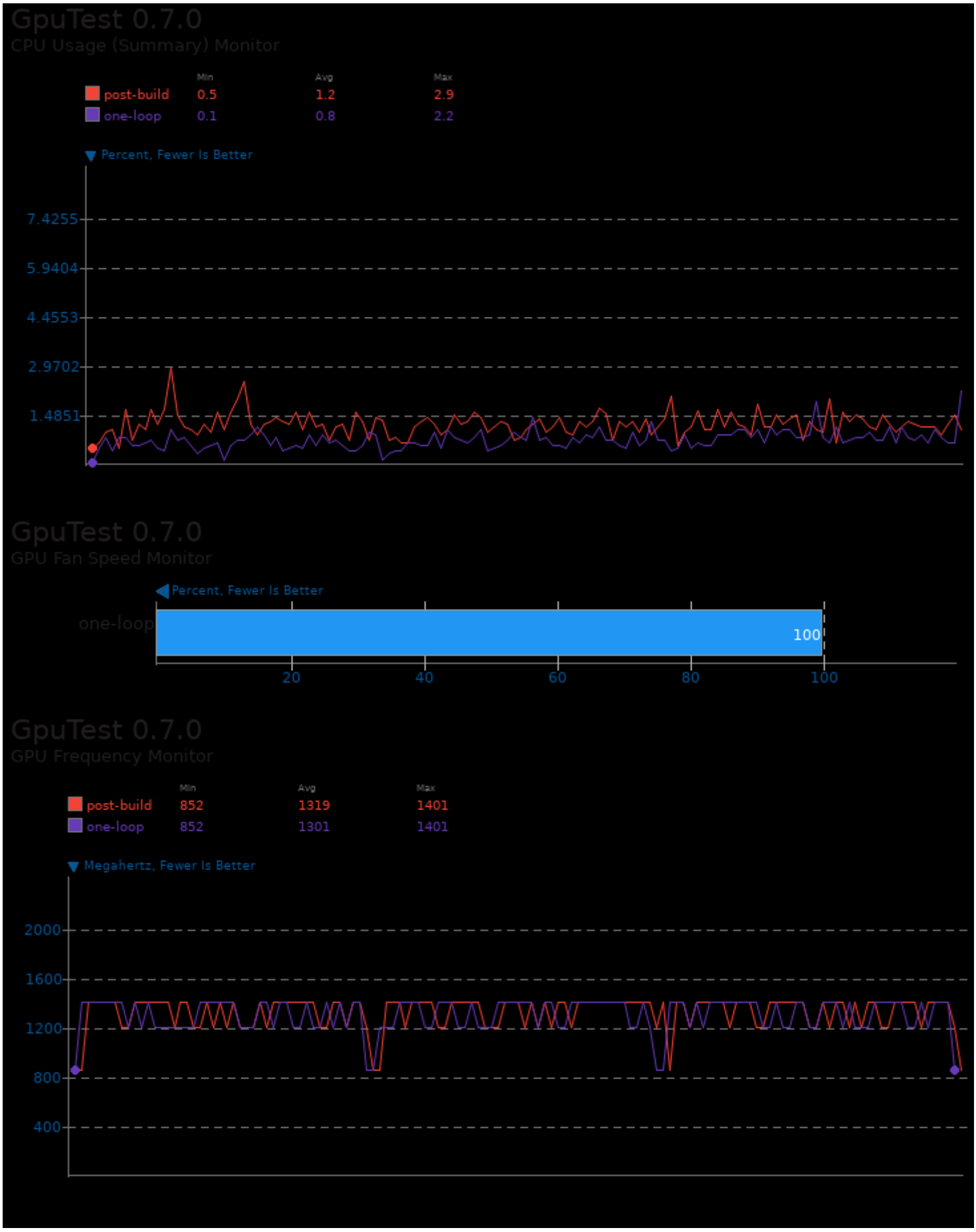
temps


GpuTest 0.7.0
CPU Usage (CPU20) Monitor
Min
Avg
Max
post-build 0.0 1.7 6.0
one-loop 0.0 0.6 3.9
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU21) Monitor
Min
Avg
Max
post-build 0.0 1.1 7.7
one-loop 0.0 0.5 2.0
Percent, Fewer Is Better
15
12
9
6
3

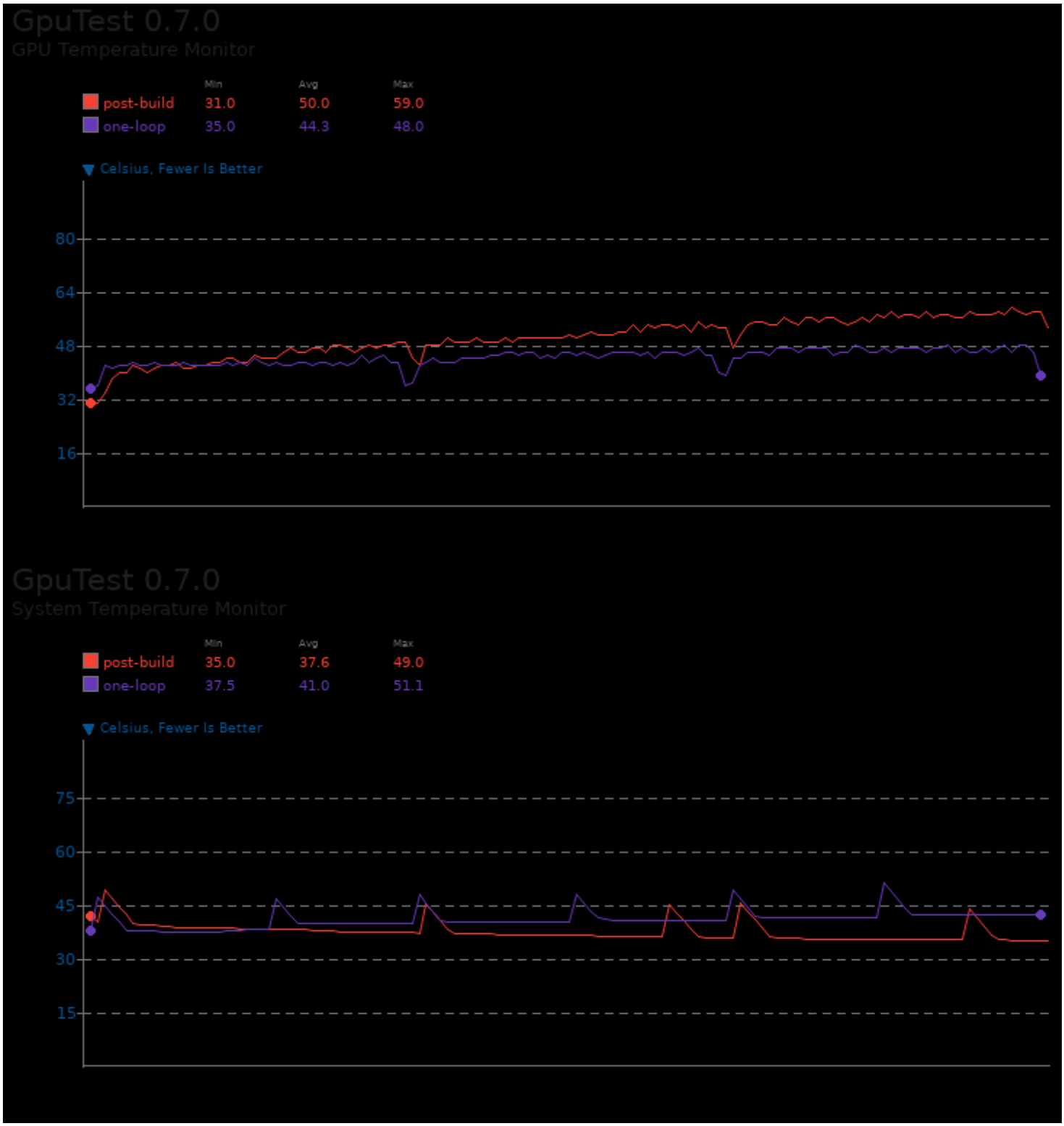
temps


GpuTest 0.7.0
CPU Usage (CPU22) Monitor
Min
Avg
Max
post-build 0.0 0.8 7.8
one-loop 0.0 0.2 3.9
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU23) Monitor
Min
Avg
Max
post-build 0.0 0.4 4.0
one-loop 0.0 0.3 3.9
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125

temps


GpuTest 0.7.0
CPU Usage (Summary) Monitor
Min
Avg
Max
post-build 0.5 1.2 2.9
one-loop 0.1 0.8 2.2
Percent, Fewer Is Better
7.4255
5.9404
4.4553
2.9702
1.4851
GpuTest 0.7.0
GPU Fan Speed Monitor
Percent, Fewer Is Better
one-loop
100
20
40
60
80
100
GpuTest 0.7.0
GPU Frequency Monitor
Min
Avg
Max
post-build 852 1319 1401
one-loop 852 1301 1401
Megahertz, Fewer Is Better
2000
1600
1200
800
400

temps


GpuTest 0.7.0
GPU Temperature Monitor
Min
Avg
Max
post-build 31.0 50.0 59.0
one-loop 35.0 44.3 48.0
Celsius, Fewer Is Better
80
64
48
32
16
GpuTest 0.7.0
System Temperature Monitor
Min
Avg
Max
post-build 35.0 37.6 49.0
one-loop 37.5 41.0 51.1
Celsius, Fewer Is Better
75
60
45
30
15

temps


GpuTest 0.7.0
Test: Pixmark Piano - Resolution: 1920 x 1080 - Mode: Fullscreen
Points, More Is Better
post-build
SE +/- 34.79, N = 3
2948
one-loop
SE +/- 1.53, N = 3
3017
600
1200
1800
2400
3000
GpuTest 0.7.0
CPU Frequency (CPU0) Monitor
Min
Avg
Max
post-build 1715 1951 2407
one-loop 1714 2017 2804
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU1) Monitor
Min
Avg
Max
post-build 1716 2000 3068
one-loop 1714 1980 2564
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU2) Monitor
Min
Avg
Max
post-build 1714 1951 2713
one-loop 1712 1891 3185
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

temps


GpuTest 0.7.0
CPU Frequency (CPU3) Monitor
Min
Avg
Max
post-build 1720 2062 3459
one-loop 1756 2053 3784
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
GpuTest 0.7.0
CPU Frequency (CPU4) Monitor
Min
Avg
Max
post-build 1714 2000 3674
one-loop 1714 1961 2734
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

temps


GpuTest 0.7.0
CPU Frequency (CPU5) Monitor
Min
Avg
Max
post-build 1714 2011 2702
one-loop 1717 2041 2987
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU6) Monitor
Min
Avg
Max
post-build 1837 2081 2727
one-loop 1777 2128 2930
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU7) Monitor
Min
Avg
Max
post-build 1887 2092 2317
one-loop 1716 2096 2926
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU8) Monitor
Min
Avg
Max
post-build 1885 2104 2195
one-loop 1753 2098 2738
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU9) Monitor
Min
Avg
Max
post-build 1713 2005 3075
one-loop 1714 2040 3348
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU10) Monitor
Min
Avg
Max
post-build 1716 2022 2887
one-loop 1714 2031 3102
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

temps


GpuTest 0.7.0
CPU Frequency (CPU11) Monitor
Min
Avg
Max
post-build 1719 2041 3621
one-loop 1713 1903 2404
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
GpuTest 0.7.0
CPU Frequency (CPU12) Monitor
Min
Avg
Max
post-build 1715 1960 2567
one-loop 1714 1999 2683
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU13) Monitor
Min
Avg
Max
post-build 1714 1970 3251
one-loop 1713 1953 2412
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU14) Monitor
Min
Avg
Max
post-build 1713 1943 3750
one-loop 1713 1863 2625
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

temps


GpuTest 0.7.0
CPU Frequency (CPU15) Monitor
Min
Avg
Max
post-build 1847 2076 3605
one-loop 1714 1954 3209
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
GpuTest 0.7.0
CPU Frequency (CPU16) Monitor
Min
Avg
Max
post-build 1716 2031 3545
one-loop 1714 1980 2538
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

temps


GpuTest 0.7.0
CPU Frequency (CPU17) Monitor
Min
Avg
Max
post-build 1717 2028 2404
one-loop 1718 2044 2984
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU18) Monitor
Min
Avg
Max
post-build 1887 2097 2919
one-loop 1717 2060 3482
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

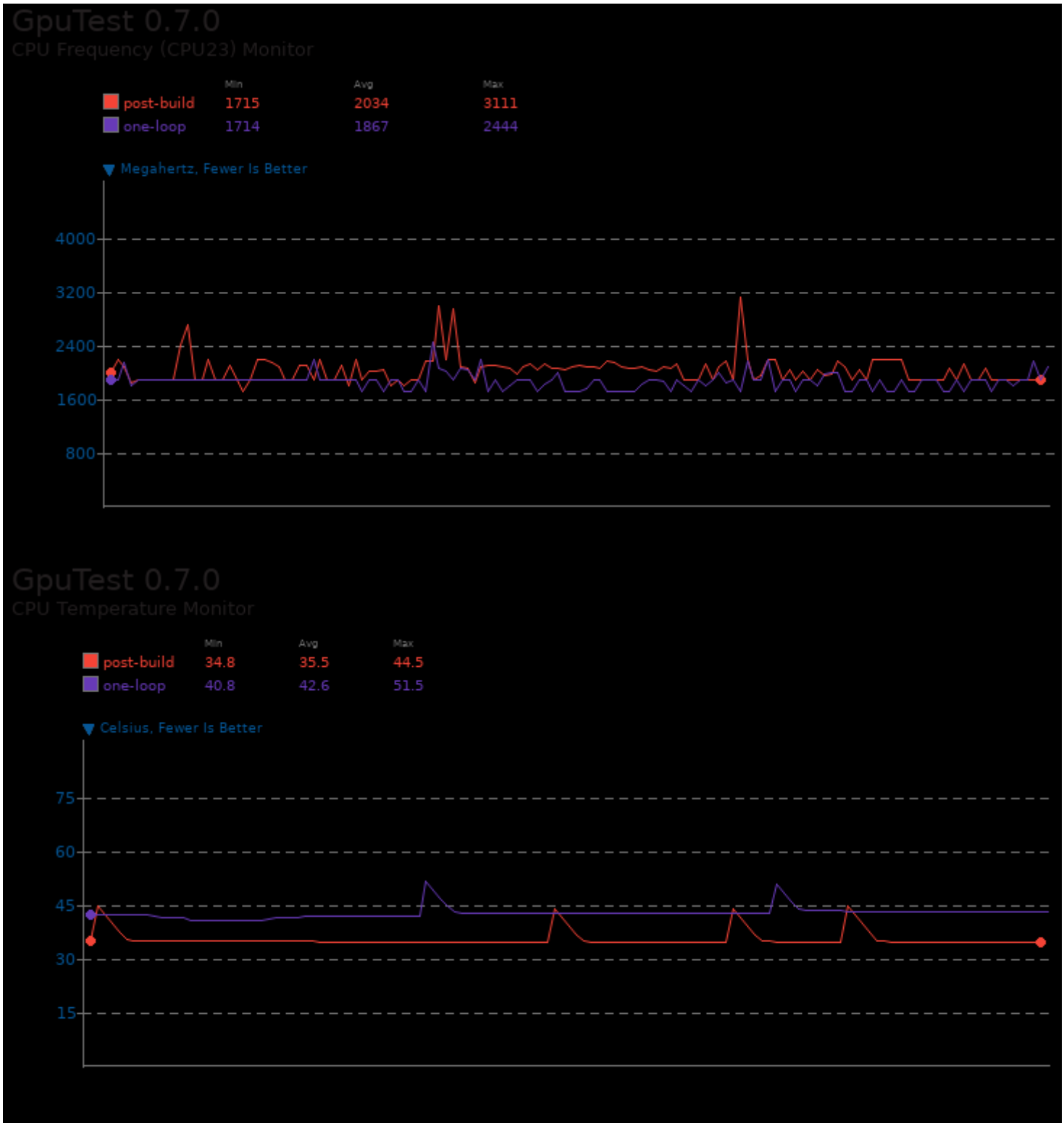
temps


GpuTest 0.7.0
CPU Frequency (CPU19) Monitor
Min
Avg
Max
post-build 1774 2077 2204
one-loop 1715 2108 3165
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU20) Monitor
Min
Avg
Max
post-build 1769 2074 2358
one-loop 1713 2032 2201
Megahertz, Fewer Is Better
3000
2400
1800
1200
600

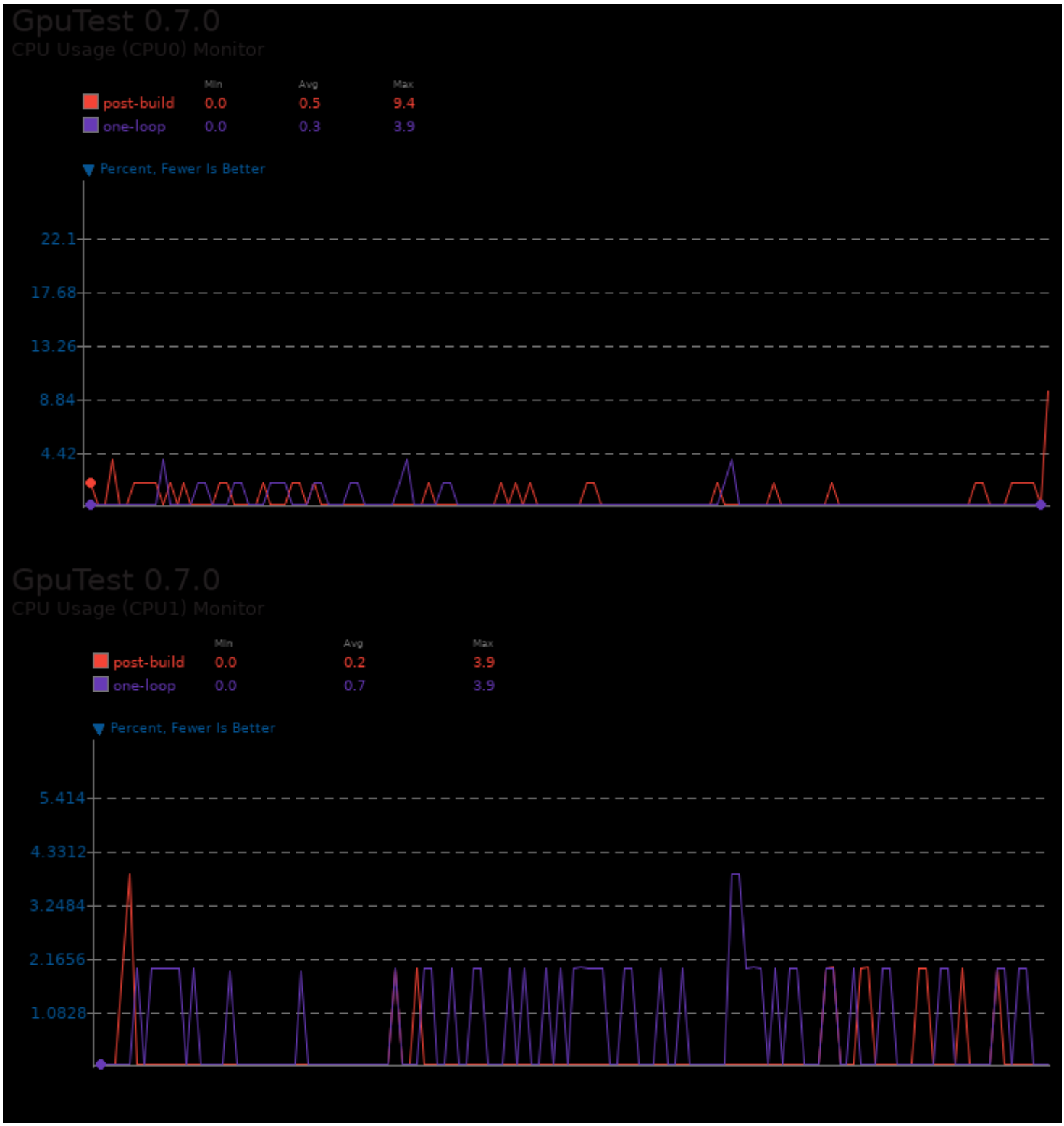
temps


GpuTest 0.7.0
CPU Frequency (CPU21) Monitor
Min
Avg
Max
post-build 1712 2005 2692
one-loop 1713 2024 2689
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU22) Monitor
Min
Avg
Max
post-build 1714 1986 2634
one-loop 1714 2011 2992
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

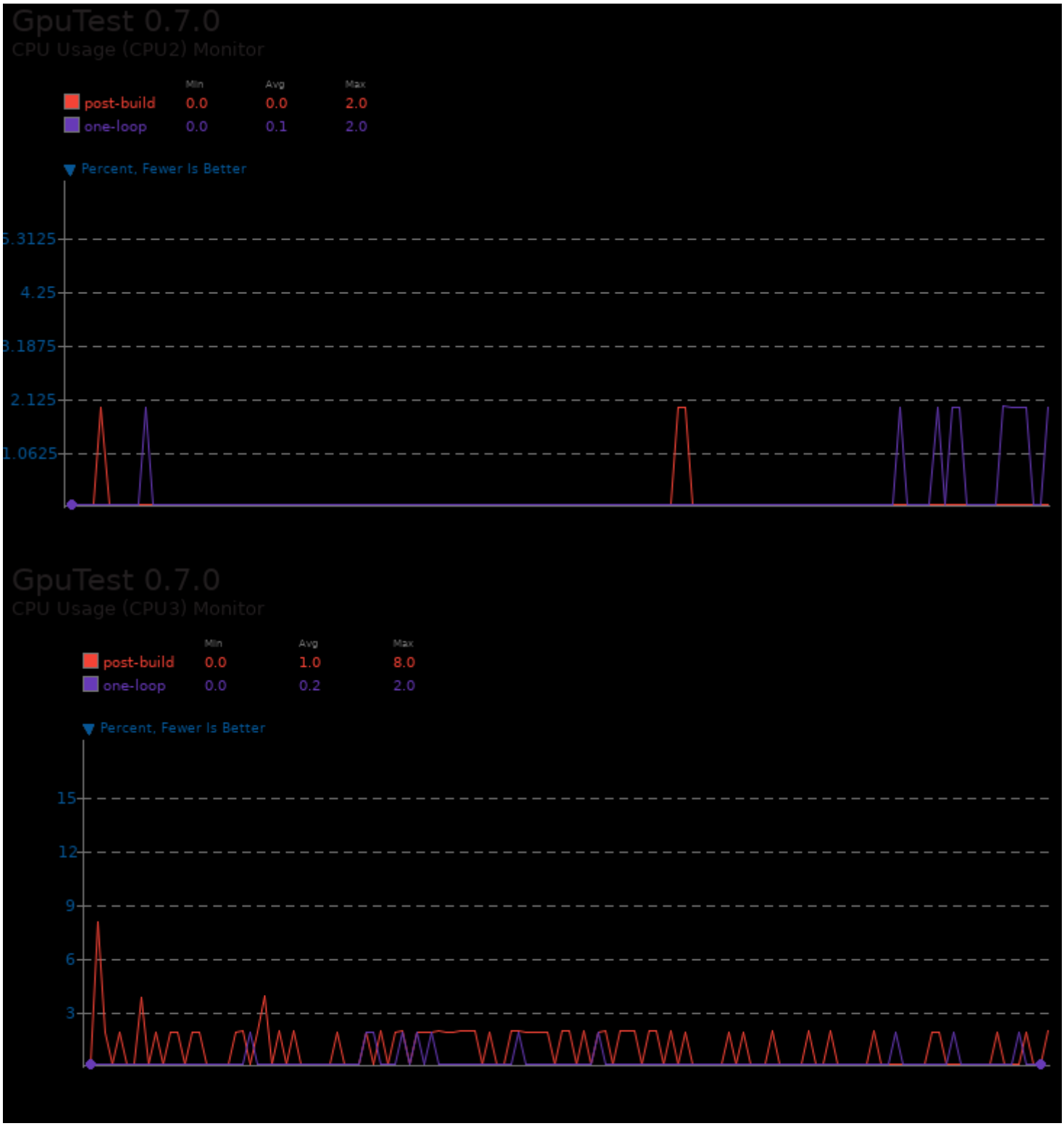
temps


GpuTest 0.7.0
CPU Frequency (CPU23) Monitor
Min
Avg
Max
post-build 1715 2034 3111
one-loop 1714 1867 2444
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Temperature Monitor
Min
Avg
Max
post-build 34.8 35.5 44.5
one-loop 40.8 42.6 51.5
Celsius, Fewer Is Better
75
60
45
30
15

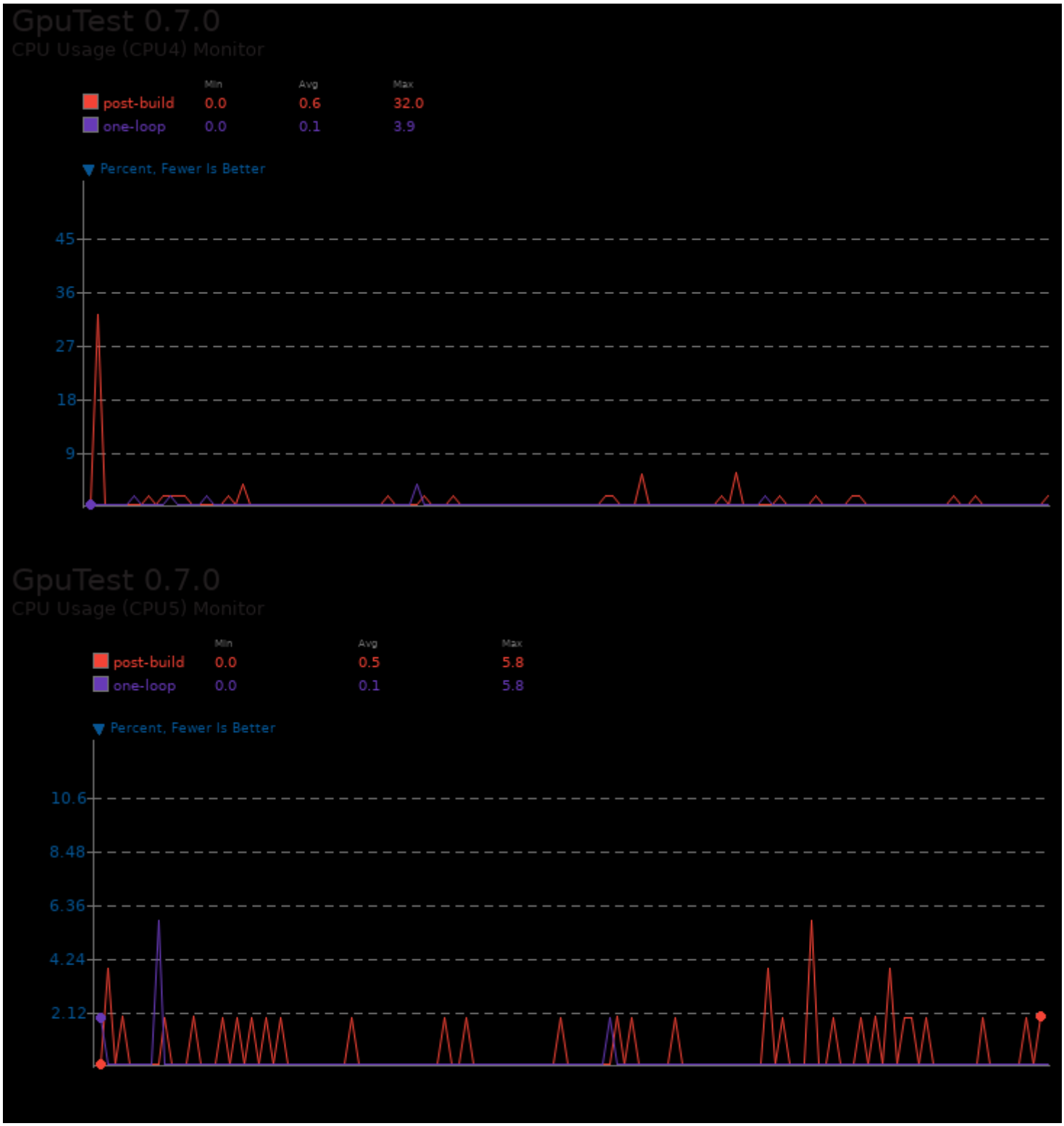
temps


GpuTest 0.7.0
CPU Usage (CPU0) Monitor
Min
Avg
Max
post-build 0.0 0.5 9.4
one-loop 0.0 0.3 3.9
Percent, Fewer Is Better
22.1
17.68
13.26
8.84
4.42
GpuTest 0.7.0
CPU Usage (CPU1) Monitor
Min
Avg
Max
post-build 0.0 0.2 3.9
one-loop 0.0 0.7 3.9
Percent, Fewer Is Better
5.414
4.3312
3.2484
2.1656
1.0828

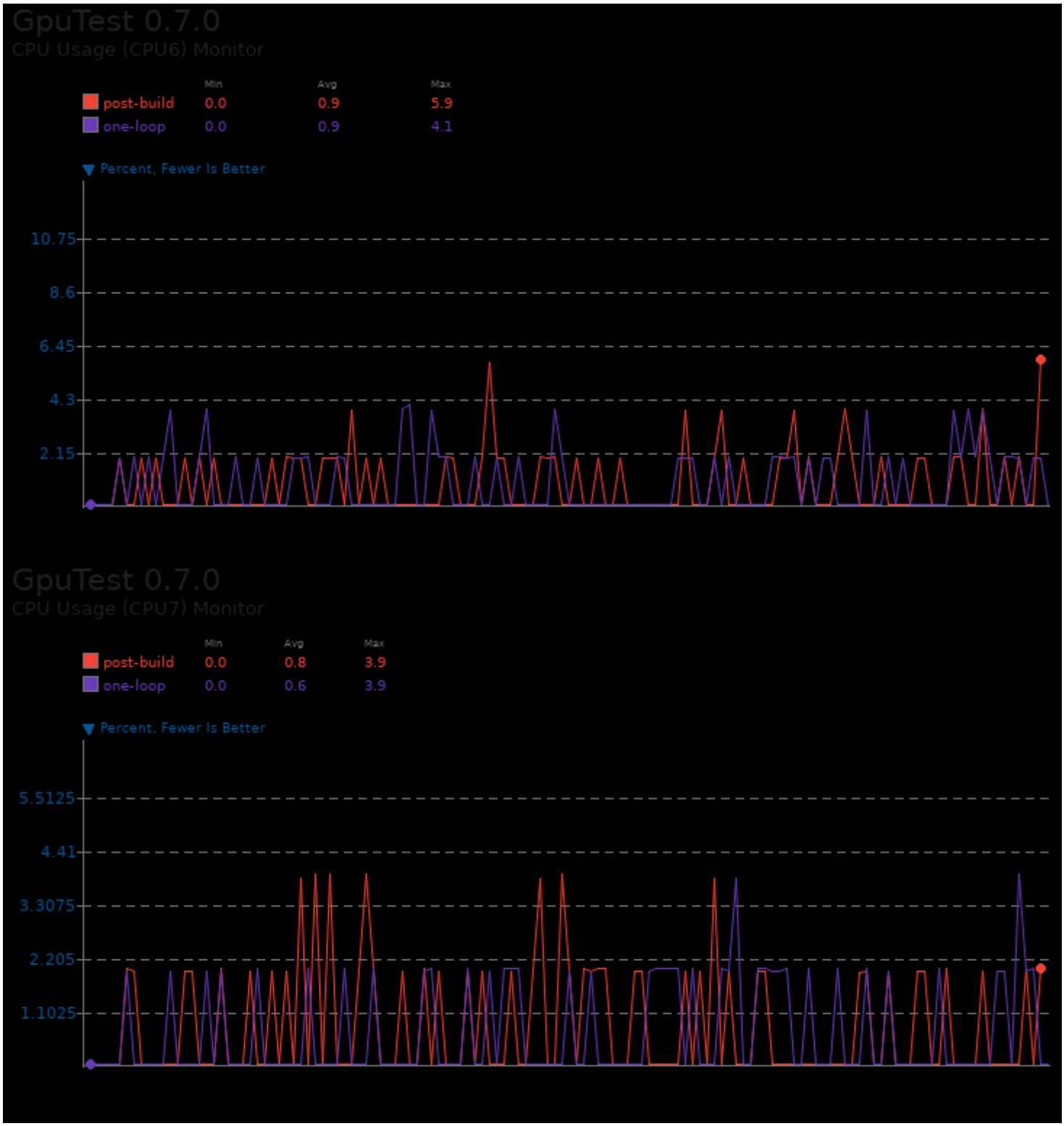
temps


GpuTest 0.7.0
CPU Usage (CPU2) Monitor
Min
Avg
Max
post-build 0.0 0.0 2.0
one-loop 0.0 0.1 2.0
Percent, Fewer Is Better
5.3125
4.25
3.1875
2.125
1.0625
GpuTest 0.7.0
CPU Usage (CPU3) Monitor
Min
Avg
Max
post-build 0.0 1.0 8.0
one-loop 0.0 0.2 2.0
Percent, Fewer Is Better
15
12
9
6
3

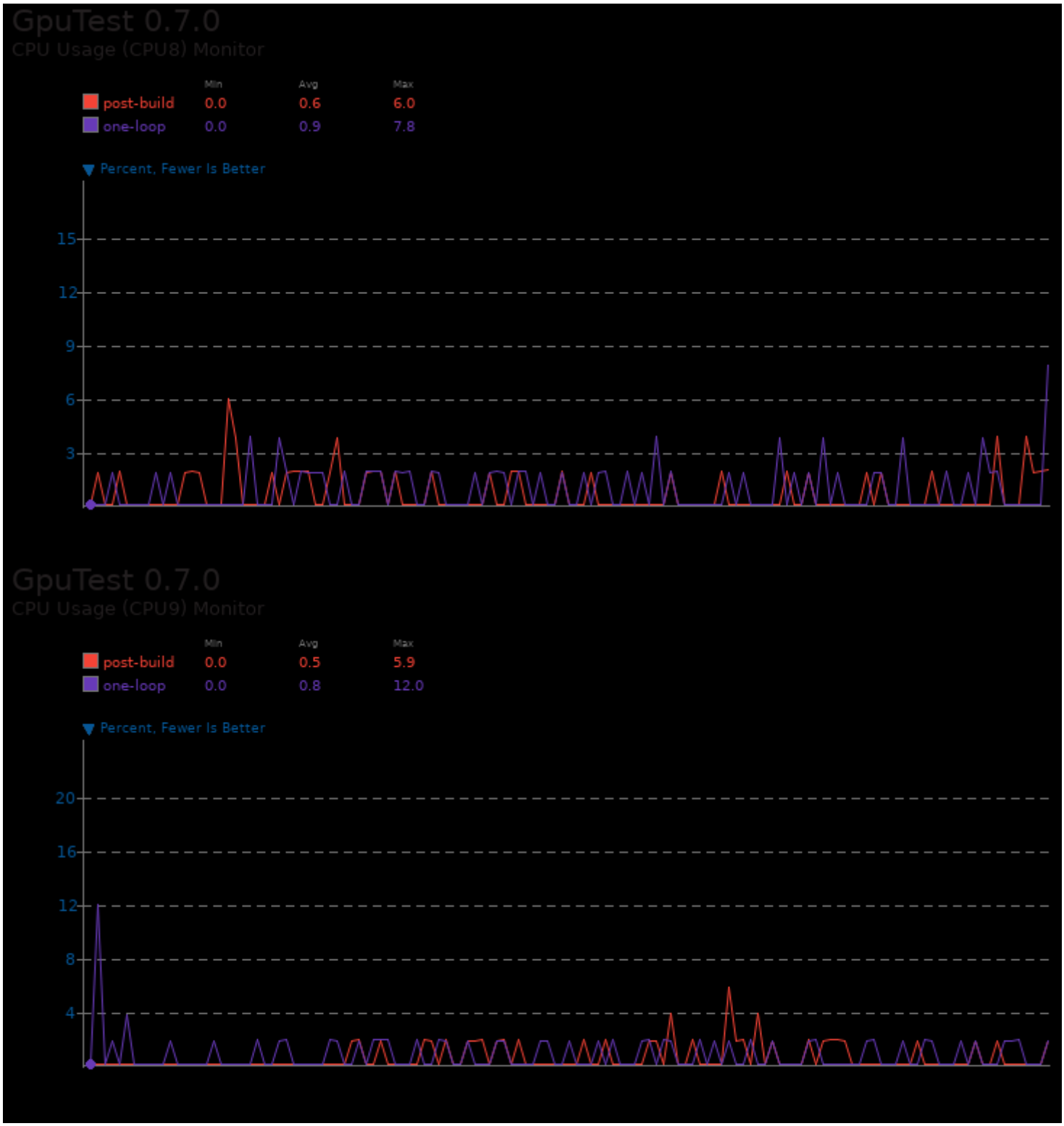
temps


GpuTest 0.7.0
CPU Usage (CPU4) Monitor
Min
Avg
Max
post-build 0.0 0.6 32.0
one-loop 0.0 0.1 3.9
Percent, Fewer Is Better
45
36
27
18
9
GpuTest 0.7.0
CPU Usage (CPU5) Monitor
Min
Avg
Max
post-build 0.0 0.5 5.8
one-loop 0.0 0.1 5.8
Percent, Fewer Is Better
10.6
8.48
6.36
4.24
2.12

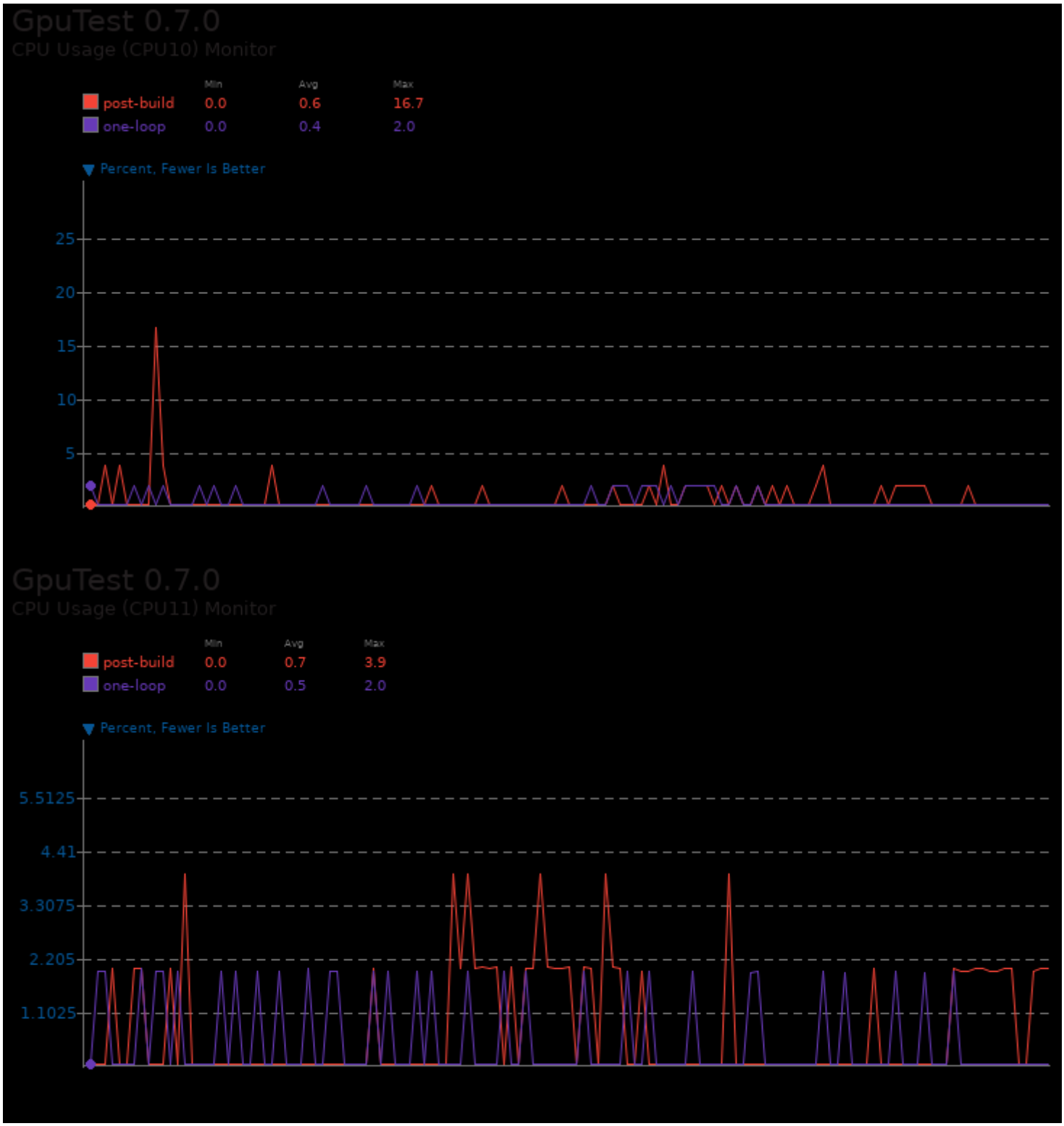
temps


GpuTest 0.7.0
CPU Usage (CPU6) Monitor
Min
Avg
Max
post-build 0.0 0.9 5.9
one-loop 0.0 0.9 4.1
Percent, Fewer Is Better
10.75
8.6
6.45
4.3
2.15
GpuTest 0.7.0
CPU Usage (CPU7) Monitor
Min
Avg
Max
post-build 0.0 0.8 3.9
one-loop 0.0 0.6 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

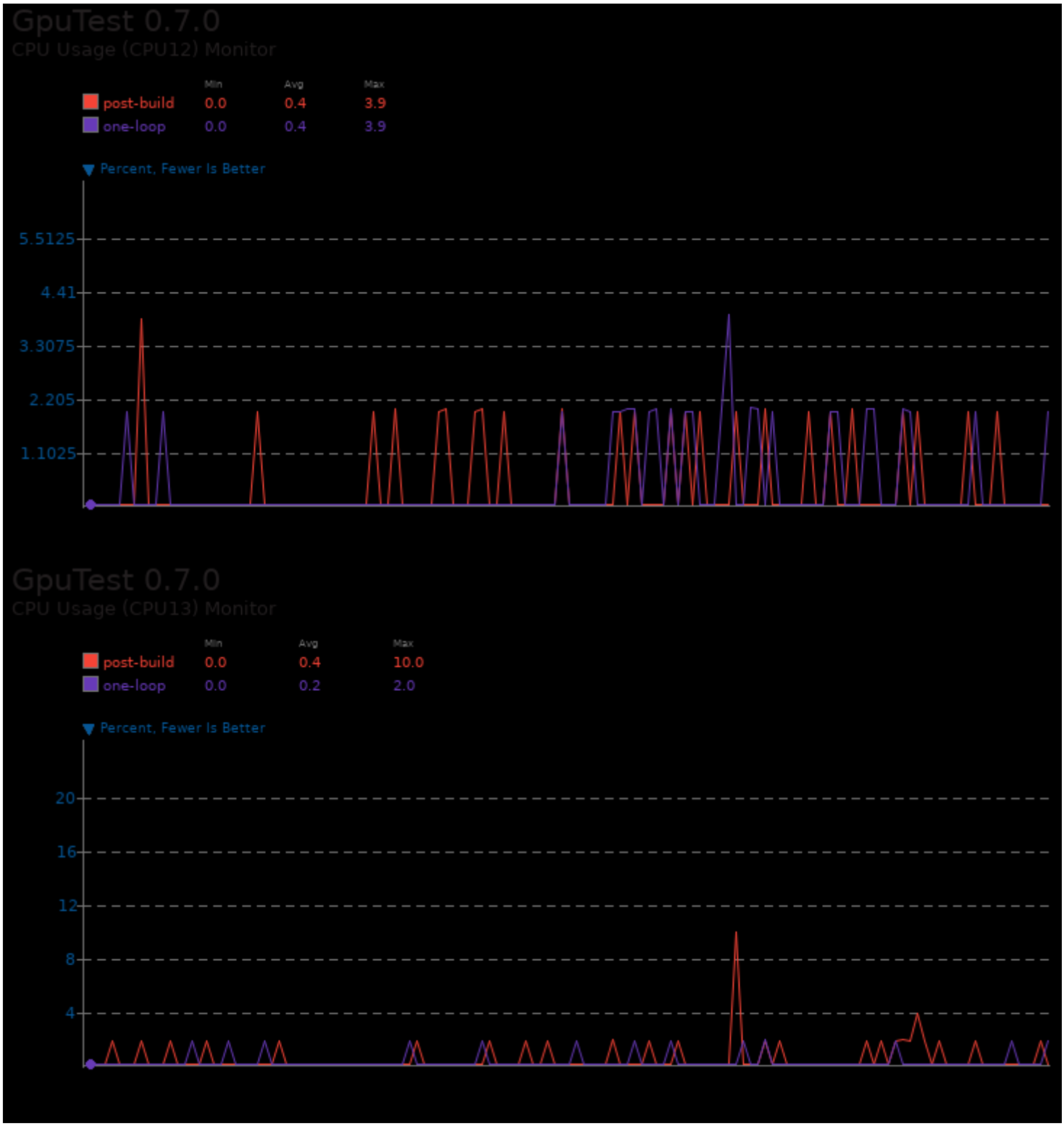
temps


GpuTest 0.7.0
CPU Usage (CPU8) Monitor
Min
Avg
Max
post-build 0.0 0.6 6.0
one-loop 0.0 0.9 7.8
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU9) Monitor
Min
Avg
Max
post-build 0.0 0.5 5.9
one-loop 0.0 0.8 12.0
Percent, Fewer Is Better
20
16
12
8
4

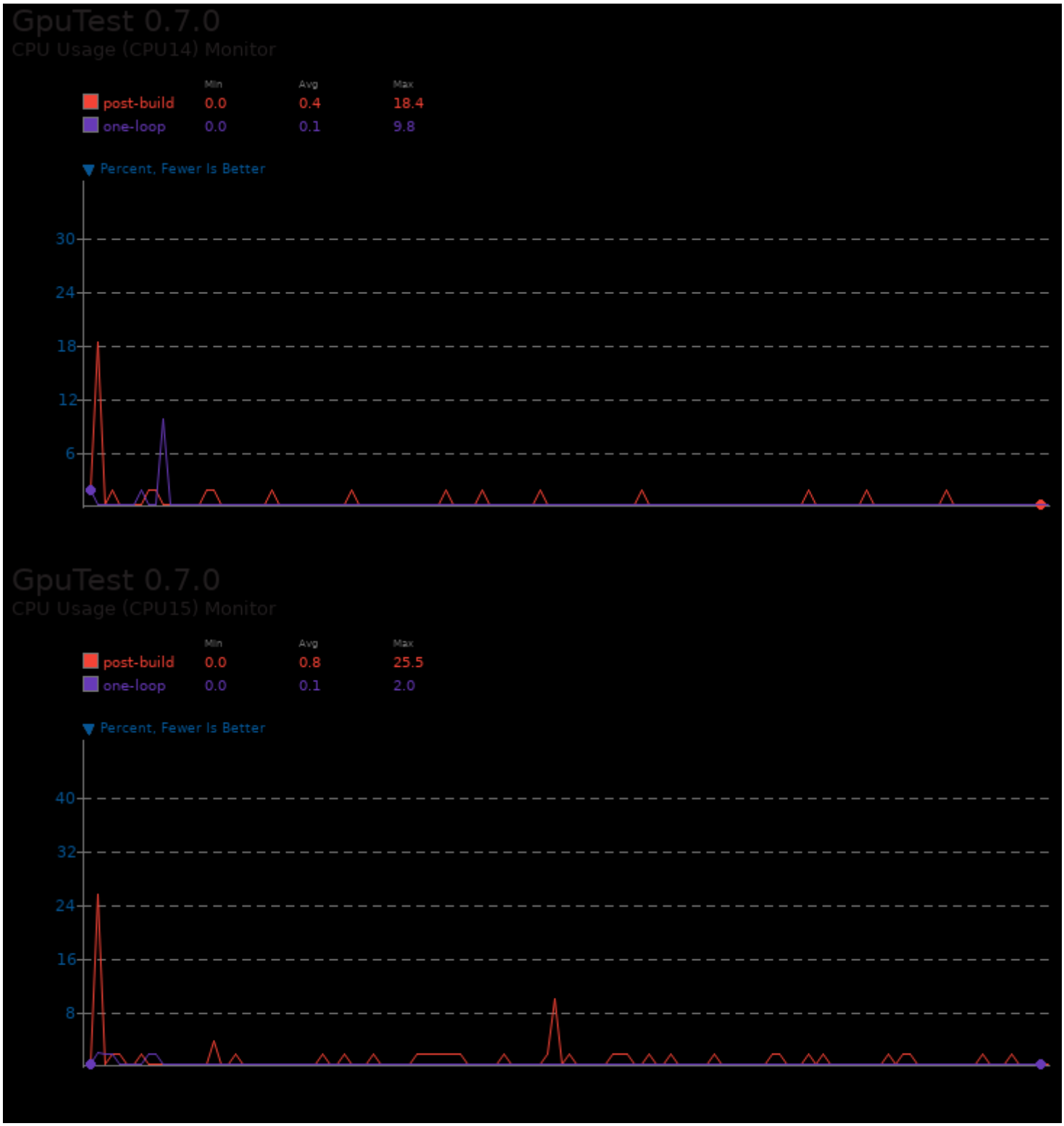
temps


GpuTest 0.7.0
CPU Usage (CPU10) Monitor
Min
Avg
Max
post-build 0.0 0.6 16.7
one-loop 0.0 0.4 2.0
Percent, Fewer Is Better
25
20
15
10
5
GpuTest 0.7.0
CPU Usage (CPU11) Monitor
Min
Avg
Max
post-build 0.0 0.7 3.9
one-loop 0.0 0.5 2.0
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

temps


GpuTest 0.7.0
CPU Usage (CPU12) Monitor
Min
Avg
Max
post-build 0.0 0.4 3.9
one-loop 0.0 0.4 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025
GpuTest 0.7.0
CPU Usage (CPU13) Monitor
Min
Avg
Max
post-build 0.0 0.4 10.0
one-loop 0.0 0.2 2.0
Percent, Fewer Is Better
20
16
12
8
4

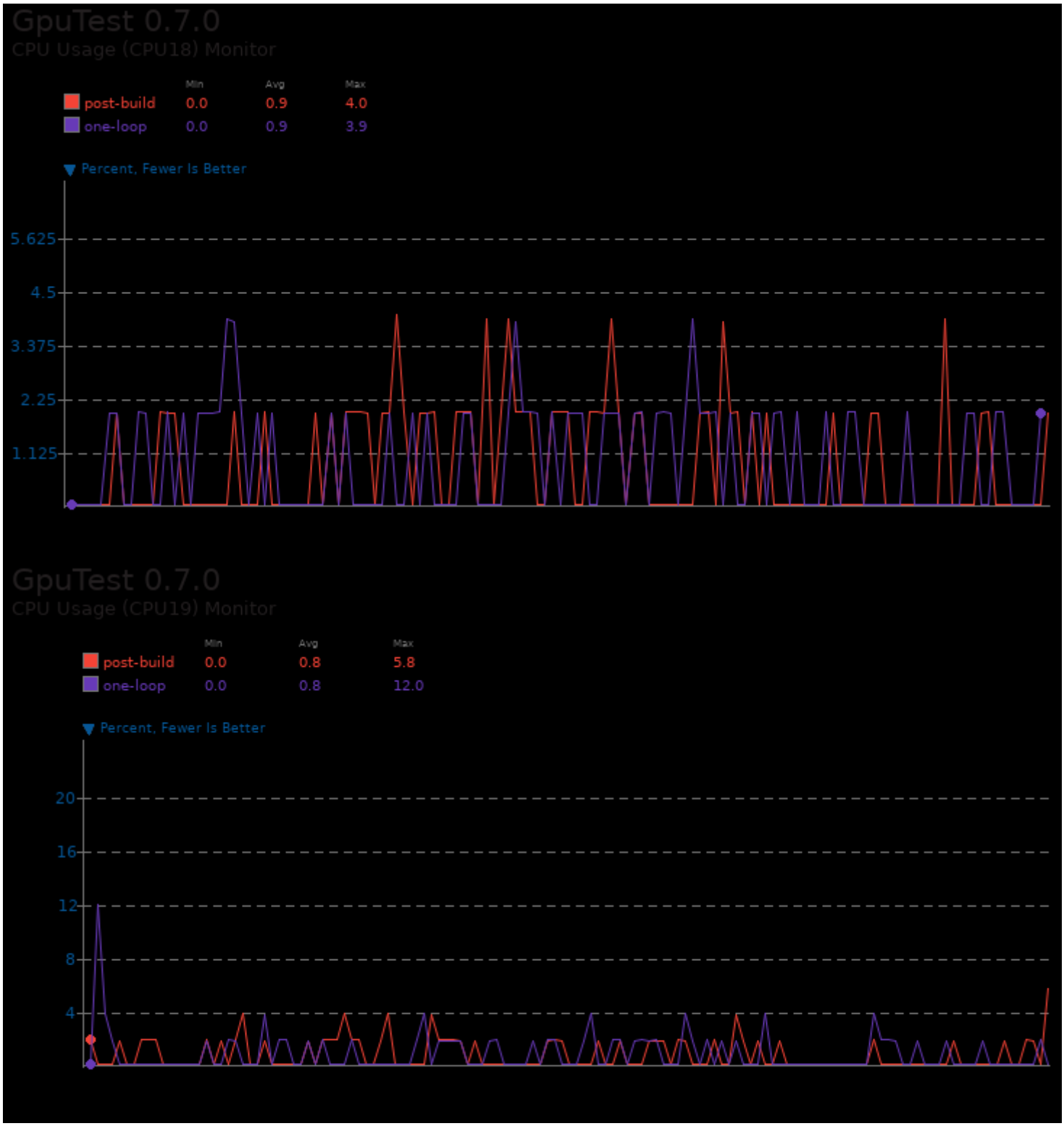
temps


GpuTest 0.7.0
CPU Usage (CPU14) Monitor
Min
Avg
Max
post-build 0.0 0.4 18.4
one-loop 0.0 0.1 9.8
Percent, Fewer Is Better
30
24
18
12
6
GpuTest 0.7.0
CPU Usage (CPU15) Monitor
Min
Avg
Max
post-build 0.0 0.8 25.5
one-loop 0.0 0.1 2.0
Percent, Fewer Is Better
40
32
24
16
8

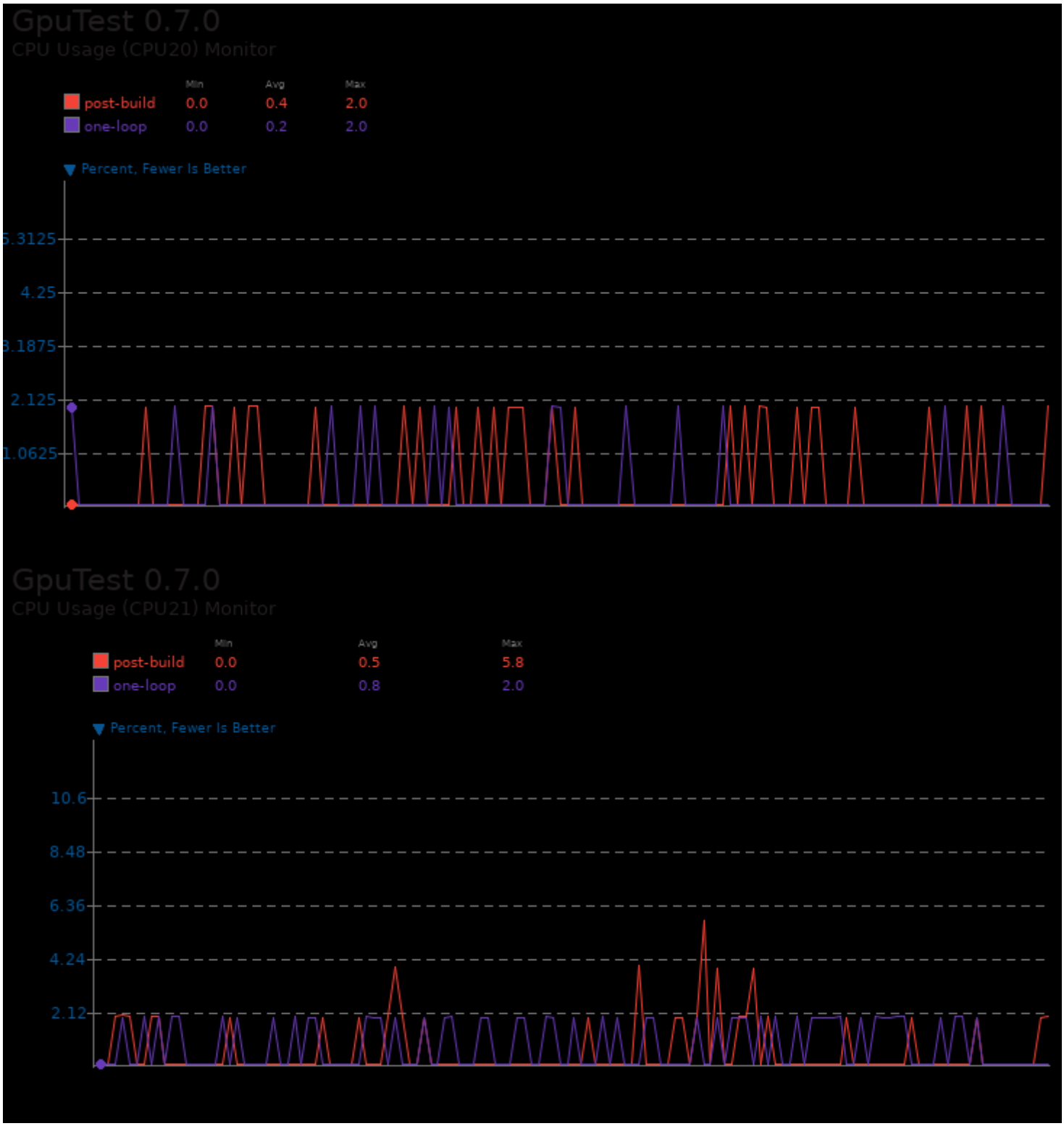
temps


GpuTest 0.7.0
CPU Usage (CPU16) Monitor
Min
Avg
Max
post-build 0.0 0.6 12.2
one-loop 0.0 0.2 3.9
Percent, Fewer Is Better
20
16
12
8
4
GpuTest 0.7.0
CPU Usage (CPU17) Monitor
Min
Avg
Max
post-build 0.0 0.4 3.9
one-loop 0.0 0.6 2.0
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

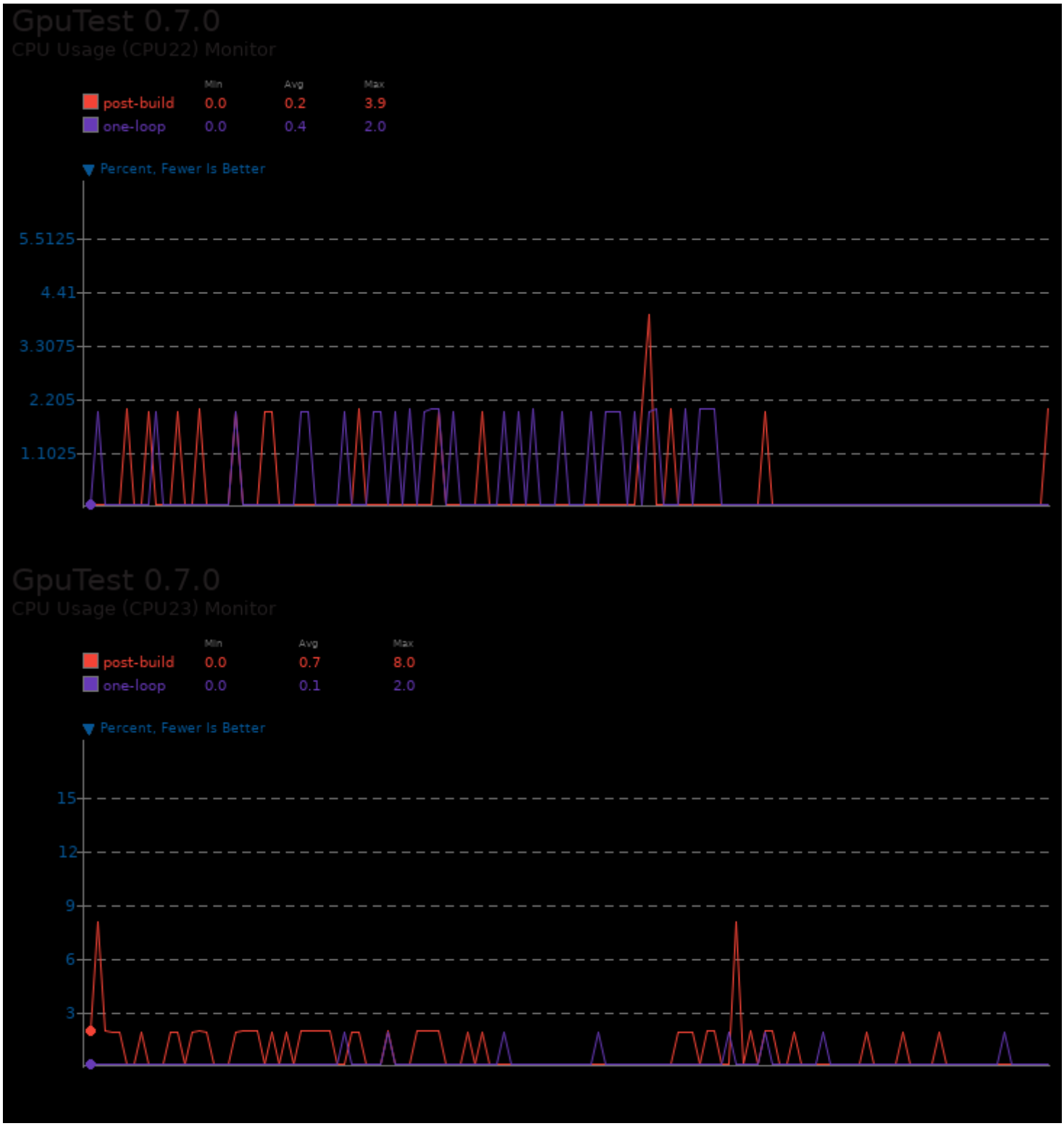
temps


GpuTest 0.7.0
CPU Usage (CPU18) Monitor
Min
Avg
Max
post-build 0.0 0.9 4.0
one-loop 0.0 0.9 3.9
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125
GpuTest 0.7.0
CPU Usage (CPU19) Monitor
Min
Avg
Max
post-build 0.0 0.8 5.8
one-loop 0.0 0.8 12.0
Percent, Fewer Is Better
20
16
12
8
4

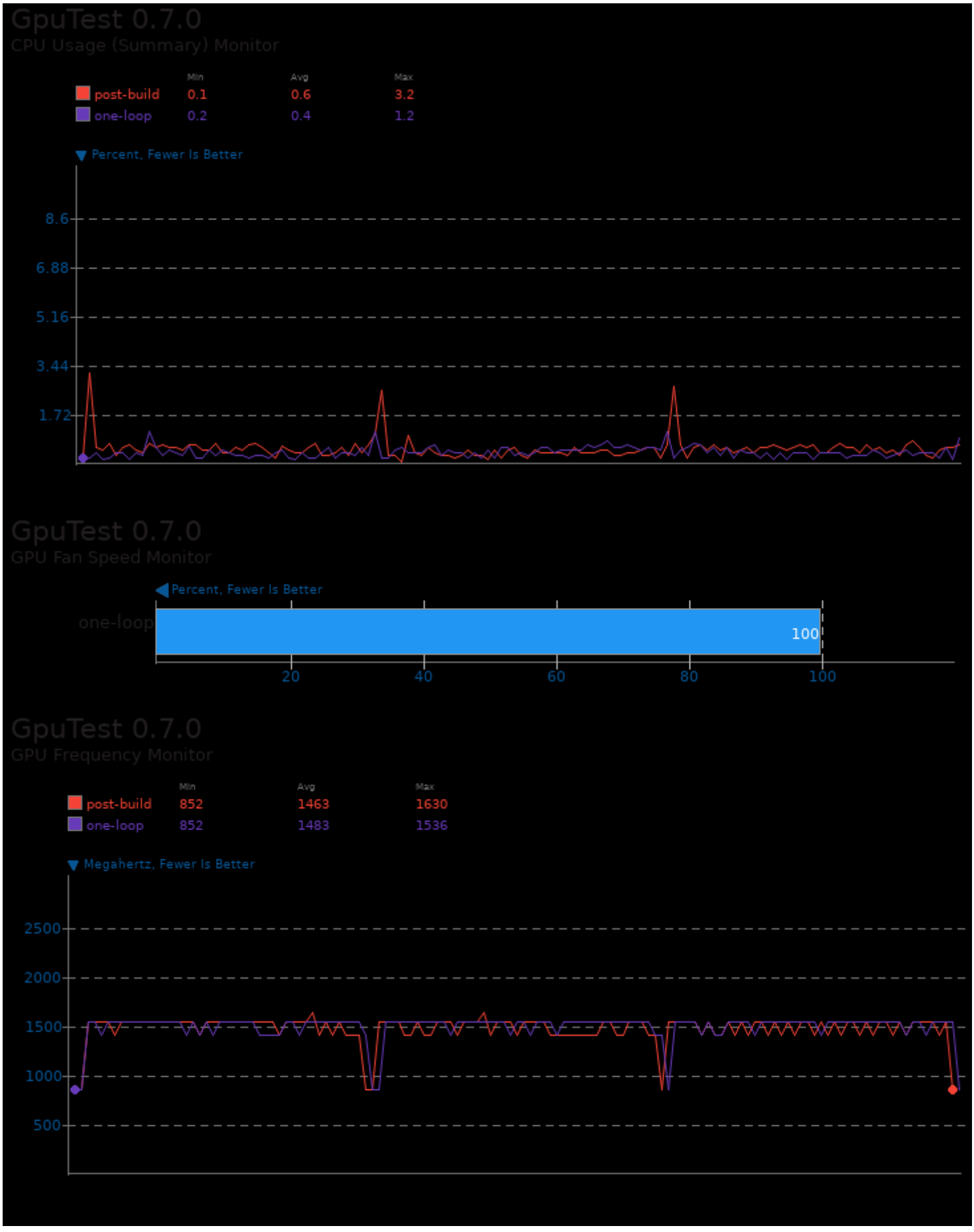
temps


GpuTest 0.7.0
CPU Usage (CPU20) Monitor
Min
Avg
Max
post-build 0.0 0.4 2.0
one-loop 0.0 0.2 2.0
Percent, Fewer Is Better
5.3125
4.25
3.1875
2.125
1.0625
GpuTest 0.7.0
CPU Usage (CPU21) Monitor
Min
Avg
Max
post-build 0.0 0.5 5.8
one-loop 0.0 0.8 2.0
Percent, Fewer Is Better
10.6
8.48
6.36
4.24
2.12

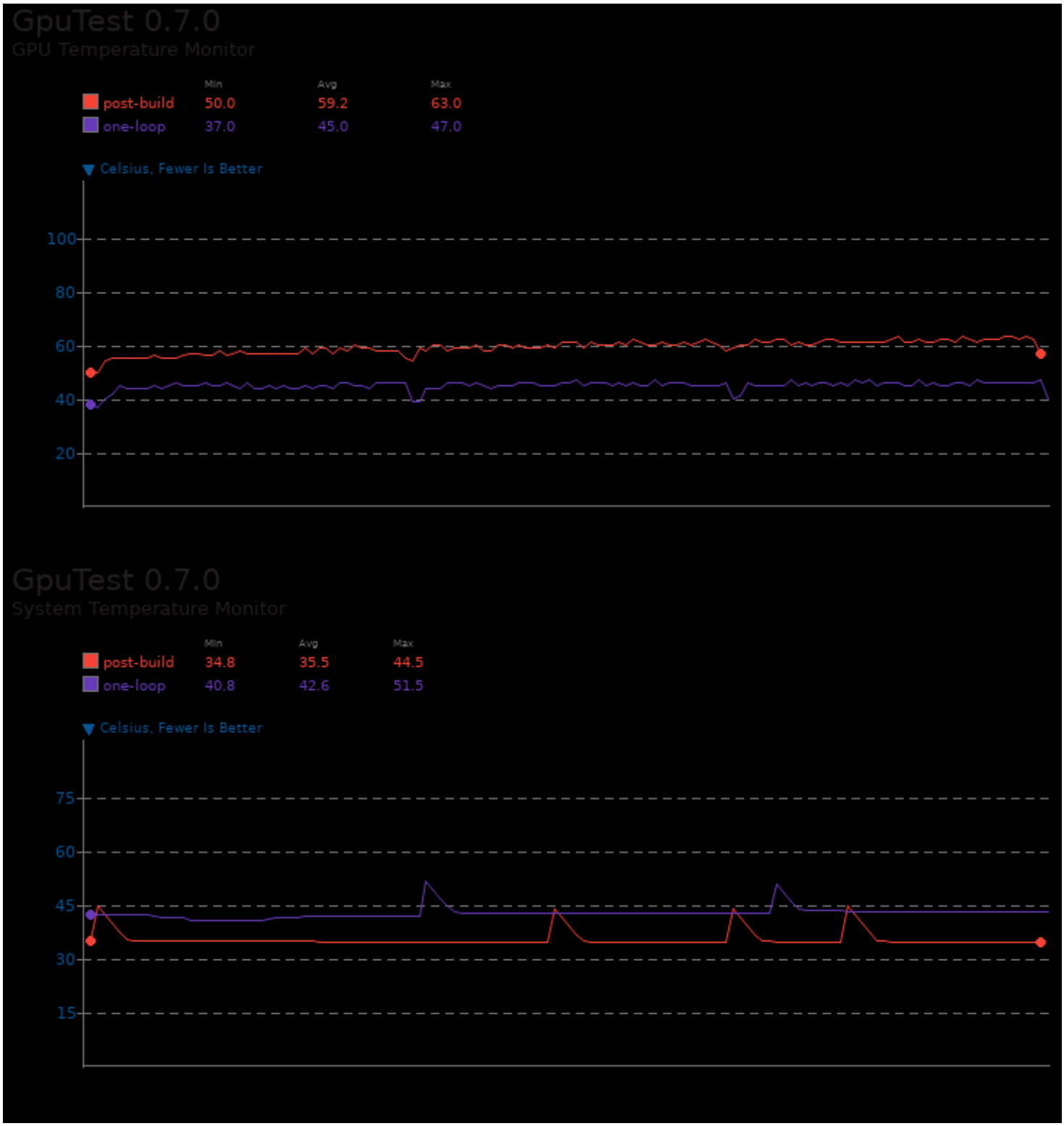
temps


GpuTest 0.7.0
CPU Usage (CPU22) Monitor
Min Avg Max
post-build 0.0 0.2 3.9
one-loop 0.0 0.4 2.0
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025
GpuTest 0.7.0
CPU Usage (CPU23) Monitor
Min Avg Max
post-build 0.0 0.7 8.0
one-loop 0.0 0.1 2.0
Percent, Fewer Is Better
15
12
9
6
3

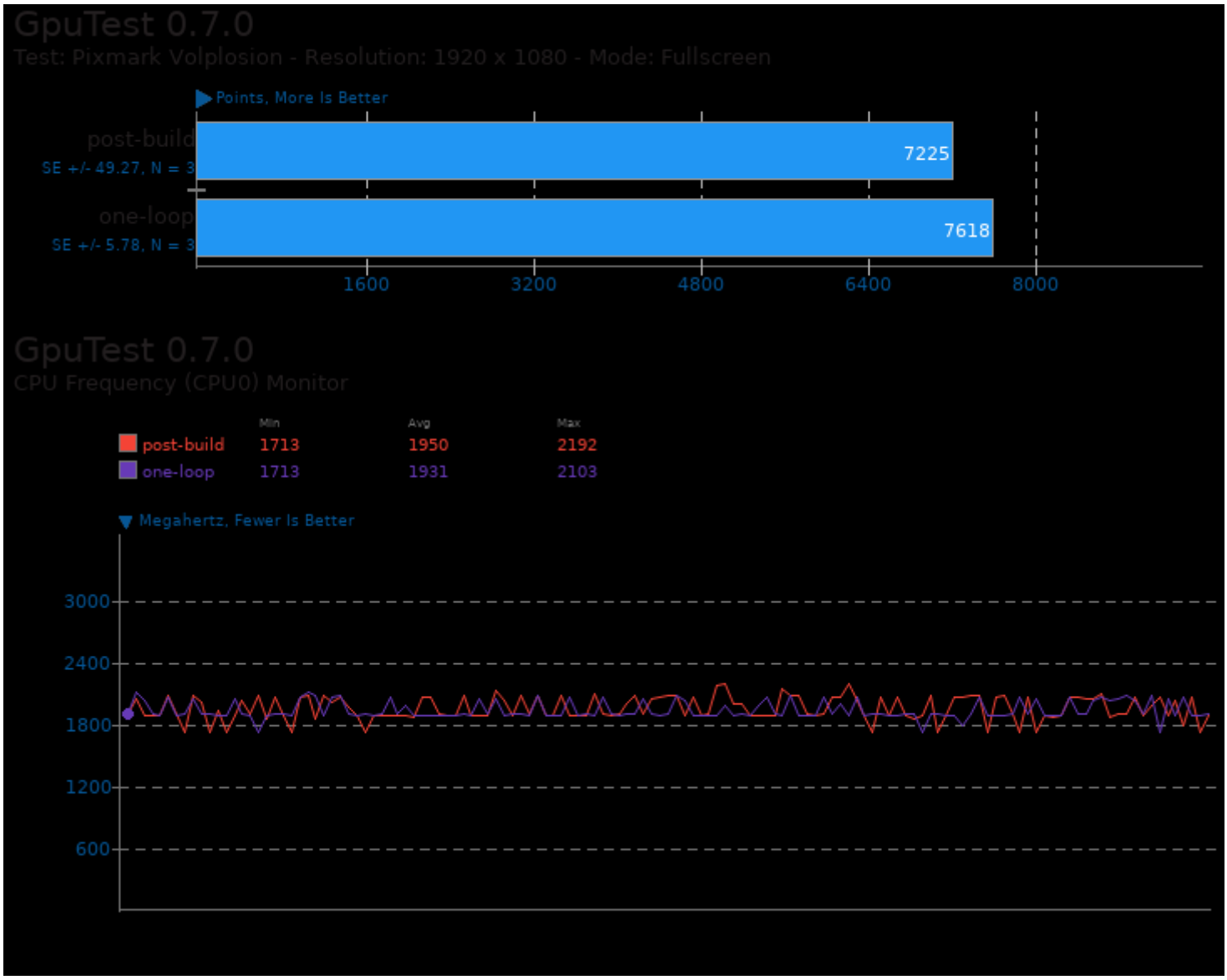
temps


GpuTest 0.7.0
CPU Usage (Summary) Monitor
Min
Avg
Max
post-build 0.1 0.6 3.2
one-loop 0.2 0.4 1.2
Percent, Fewer Is Better
8.6
6.88
5.16
3.44
1.72
GpuTest 0.7.0
GPU Fan Speed Monitor
Percent, Fewer Is Better
one-loop
100
20
40
60
80
100
GpuTest 0.7.0
GPU Frequency Monitor
Min
Avg
Max
post-build 852 1463 1630
one-loop 852 1483 1536
Megahertz, Fewer Is Better
2500
2000
1500
1000
500

temps


GpuTest 0.7.0
GPU Temperature Monitor
Min
Avg
Max
post-build 50.0 59.2 63.0
one-loop 37.0 45.0 47.0
Celsius, Fewer Is Better
100
80
60
40
20
GpuTest 0.7.0
System Temperature Monitor
Min
Avg
Max
post-build 34.8 35.5 44.5
one-loop 40.8 42.6 51.5
Celsius, Fewer Is Better
75
60
45
30
15

temps


GpuTest 0.7.0
Test: Pixmark Volplosion - Resolution: 1920 x 1080 - Mode: Fullscreen
Points, More Is Better
post-build
SE +/- 49.27, N = 3
7225
one-loop
SE +/- 5.78, N = 3
7618
1600
3200
4800
6400
8000
GpuTest 0.7.0
CPU Frequency (CPU0) Monitor
Min
Avg
Max
post-build 1713 1950 2192
one-loop 1713 1931 2103
Megahertz, Fewer Is Better
3000
2400
1800
1200
600

temps


GpuTest 0.7.0
CPU Frequency (CPU1) Monitor
Min
Avg
Max
post-build 1714 1940 3173
one-loop 1715 1908 2191
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU2) Monitor
Min
Avg
Max
post-build 1716 1966 2875
one-loop 1885 1939 2980
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU3) Monitor
Min
Avg
Max
post-build 1716 2017 3375
one-loop 1715 2023 2195
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU4) Monitor
Min
Avg
Max
post-build 1715 2021 2931
one-loop 1714 1968 2532
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU5) Monitor
Min
Avg
Max
post-build 1714 1985 2188
one-loop 1841 2058 2993
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU6) Monitor
Min
Avg
Max
post-build 1889 2142 3604
one-loop 1714 2080 2251
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

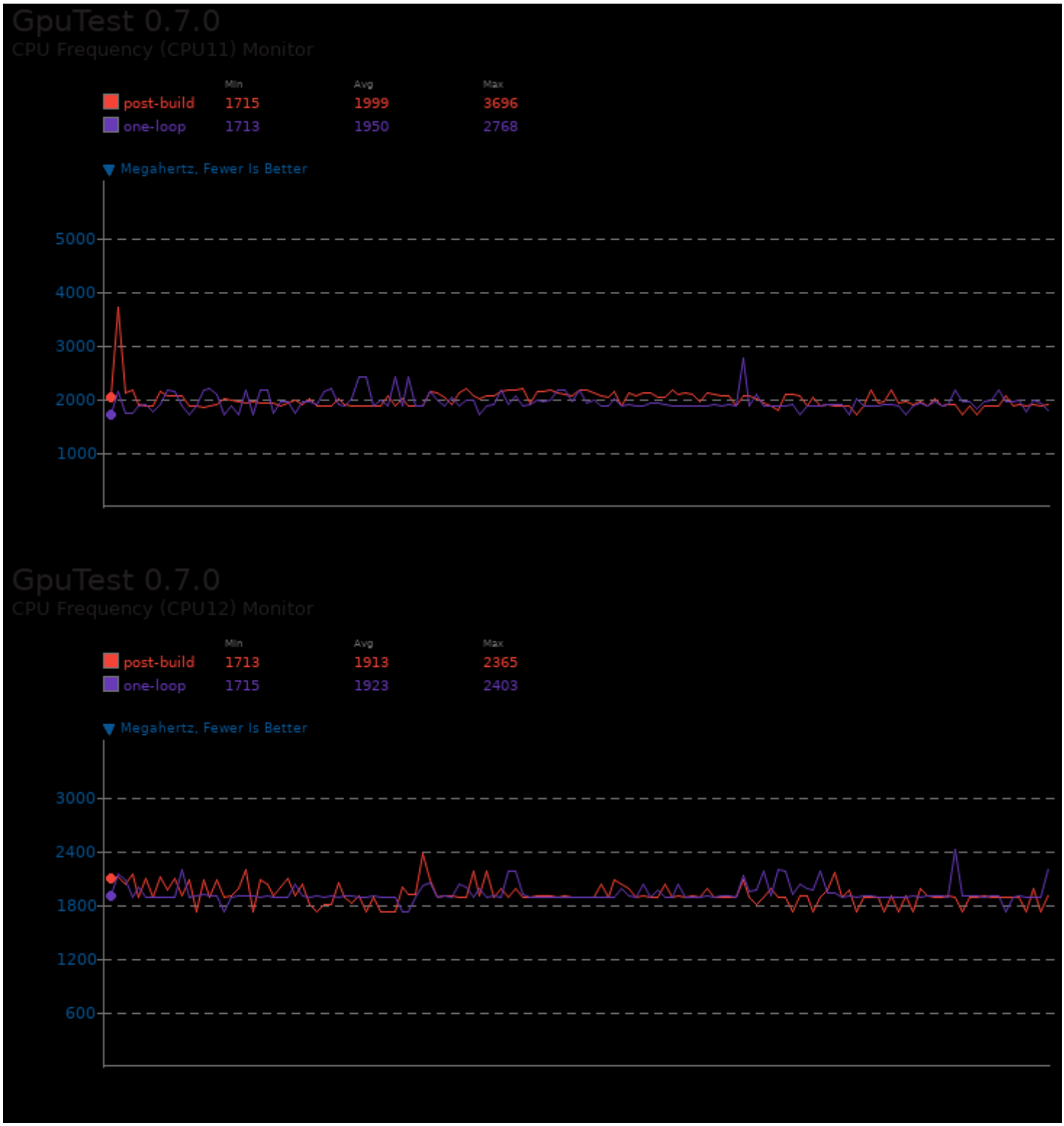
temps


GpuTest 0.7.0
CPU Frequency (CPU7) Monitor
Min
Avg
Max
post-build 1887 2100 2195
one-loop 1715 2068 2416
Megahertz, Fewer Is Better
3000
2400
1800
1200
600
GpuTest 0.7.0
CPU Frequency (CPU8) Monitor
Min
Avg
Max
post-build 1830 2138 2523
one-loop 1715 2101 3082
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

temps


GpuTest 0.7.0
CPU Frequency (CPU9) Monitor
Min
Avg
Max
post-build 1885 2042 2906
one-loop 1715 1989 2806
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU10) Monitor
Min
Avg
Max
post-build 1713 1995 3628
one-loop 1713 1983 2991
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

temps


GpuTest 0.7.0
CPU Frequency (CPU11) Monitor
Min
Avg
Max
post-build 1715 1999 3696
one-loop 1713 1950 2768
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
GpuTest 0.7.0
CPU Frequency (CPU12) Monitor
Min
Avg
Max
post-build 1713 1913 2365
one-loop 1715 1923 2403
Megahertz, Fewer Is Better
3000
2400
1800
1200
600

temps


GpuTest 0.7.0
CPU Frequency (CPU13) Monitor
Min
Avg
Max
post-build 1714 1992 2974
one-loop 1714 1921 2195
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU14) Monitor
Min
Avg
Max
post-build 1714 1948 2619
one-loop 1718 1954 2780
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

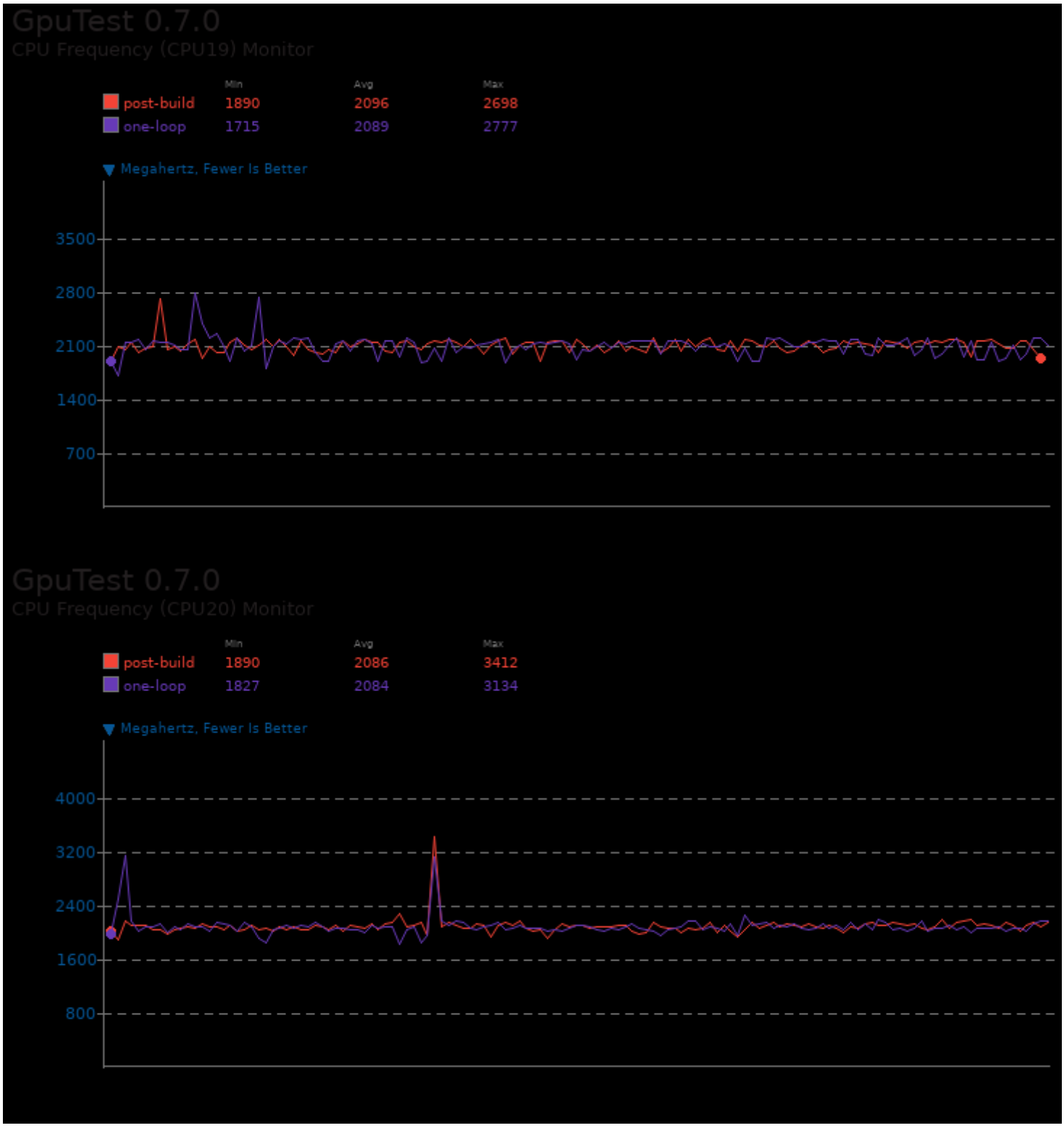
temps


GpuTest 0.7.0
CPU Frequency (CPU15) Monitor
Min
Avg
Max
post-build 1716 2019 3083
one-loop 1714 1978 2194
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU16) Monitor
Min
Avg
Max
post-build 1715 2007 2735
one-loop 1713 1987 2194
Megahertz, Fewer Is Better
3500
2800
2100
1400
700

temps


GpuTest 0.7.0
CPU Frequency (CPU17) Monitor
Min
Avg
Max
post-build 1714 1999 2721
one-loop 1885 2062 2987
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU18) Monitor
Min
Avg
Max
post-build 1812 2122 3719
one-loop 1716 2125 3696
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

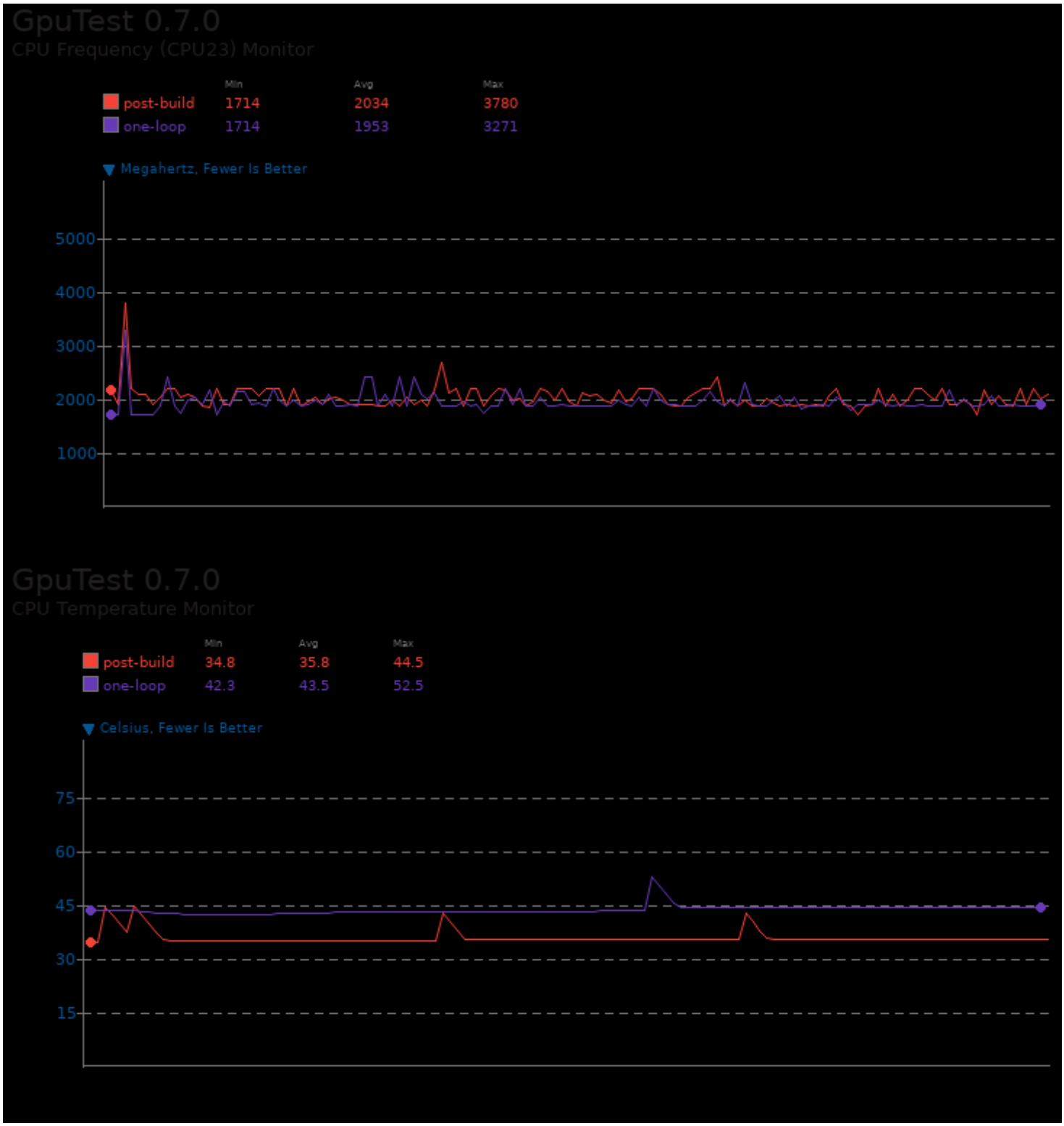
temps


GpuTest 0.7.0
CPU Frequency (CPU19) Monitor
Min
Avg
Max
post-build 1890 2096 2698
one-loop 1715 2089 2777
Megahertz, Fewer Is Better
3500
2800
2100
1400
700
GpuTest 0.7.0
CPU Frequency (CPU20) Monitor
Min
Avg
Max
post-build 1890 2086 3412
one-loop 1827 2084 3134
Megahertz, Fewer Is Better
4000
3200
2400
1600
800

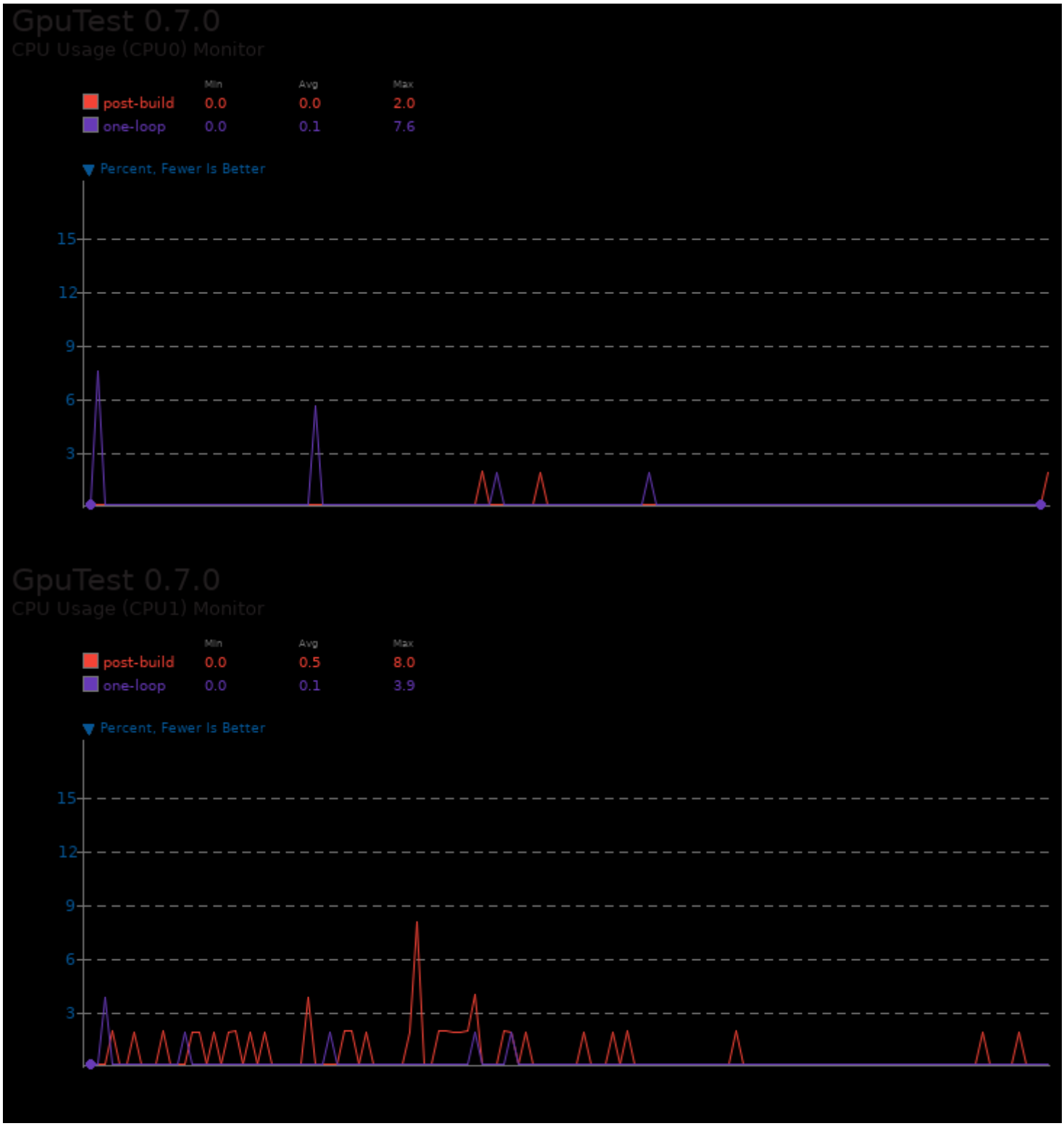
temps


GpuTest 0.7.0
CPU Frequency (CPU21) Monitor
Min
Avg
Max
post-build 1713 2017 3429
one-loop 1714 1950 2538
Megahertz, Fewer Is Better
4000
3200
2400
1600
800
GpuTest 0.7.0
CPU Frequency (CPU22) Monitor
Min
Avg
Max
post-build 1845 2030 3862
one-loop 1714 1957 2411
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

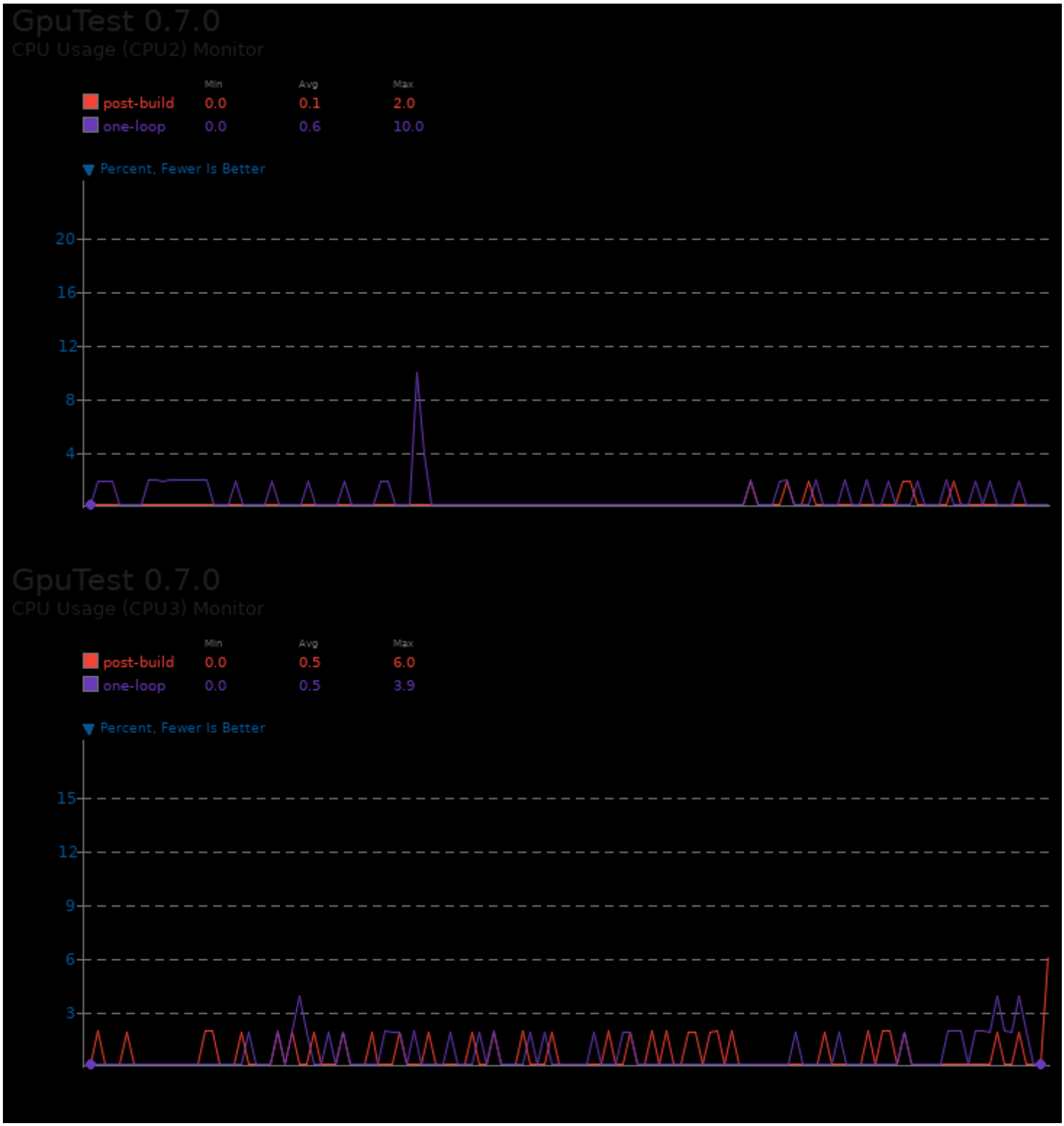
temps


GpuTest 0.7.0
CPU Frequency (CPU23) Monitor
Min
Avg
Max
post-build 1714 2034 3780
one-loop 1714 1953 3271
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
GpuTest 0.7.0
CPU Temperature Monitor
Min
Avg
Max
post-build 34.8 35.8 44.5
one-loop 42.3 43.5 52.5
Celsius, Fewer Is Better
75
60
45
30
15

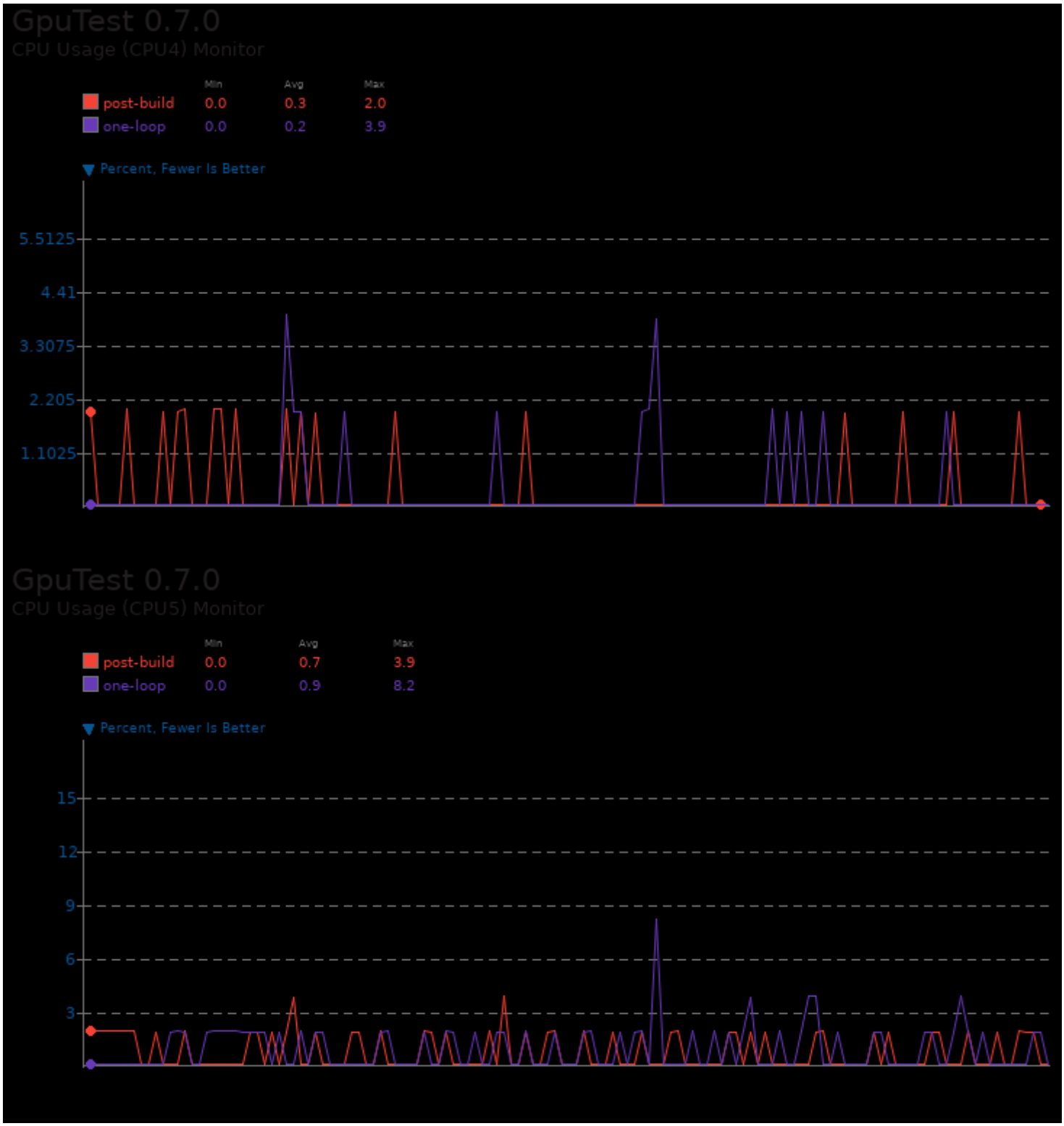
temps


GpuTest 0.7.0
CPU Usage (CPU0) Monitor
Min Avg Max
post-build 0.0 0.0 2.0
one-loop 0.0 0.1 7.6
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU1) Monitor
Min Avg Max
post-build 0.0 0.5 8.0
one-loop 0.0 0.1 3.9
Percent, Fewer Is Better
15
12
9
6
3

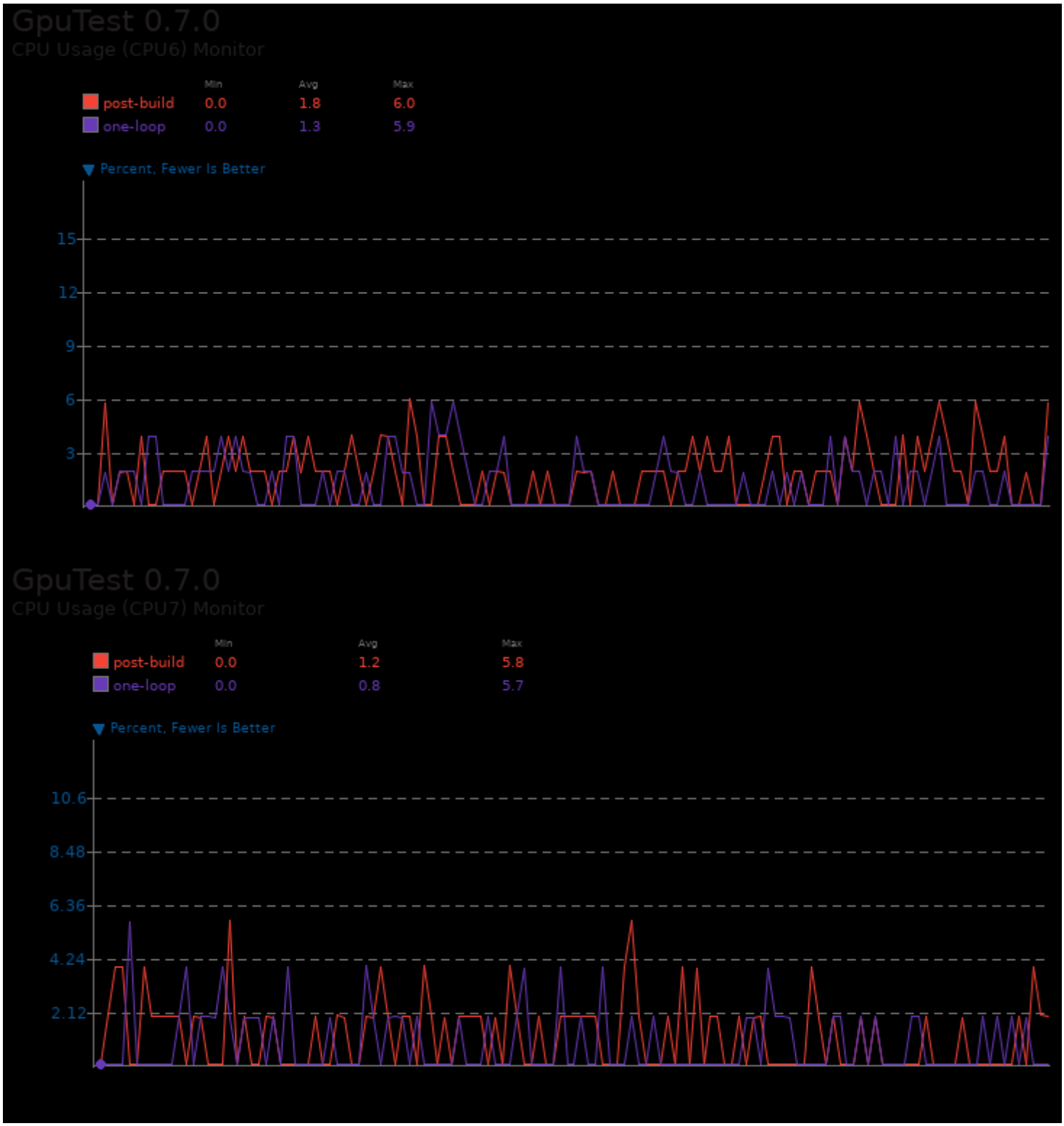
temps


GpuTest 0.7.0
CPU Usage (CPU2) Monitor
Min
Avg
Max
post-build 0.0 0.1 2.0
one-loop 0.0 0.6 10.0
Percent, Fewer Is Better
20
16
12
8
4
GpuTest 0.7.0
CPU Usage (CPU3) Monitor
Min
Avg
Max
post-build 0.0 0.5 6.0
one-loop 0.0 0.5 3.9
Percent, Fewer Is Better
15
12
9
6
3

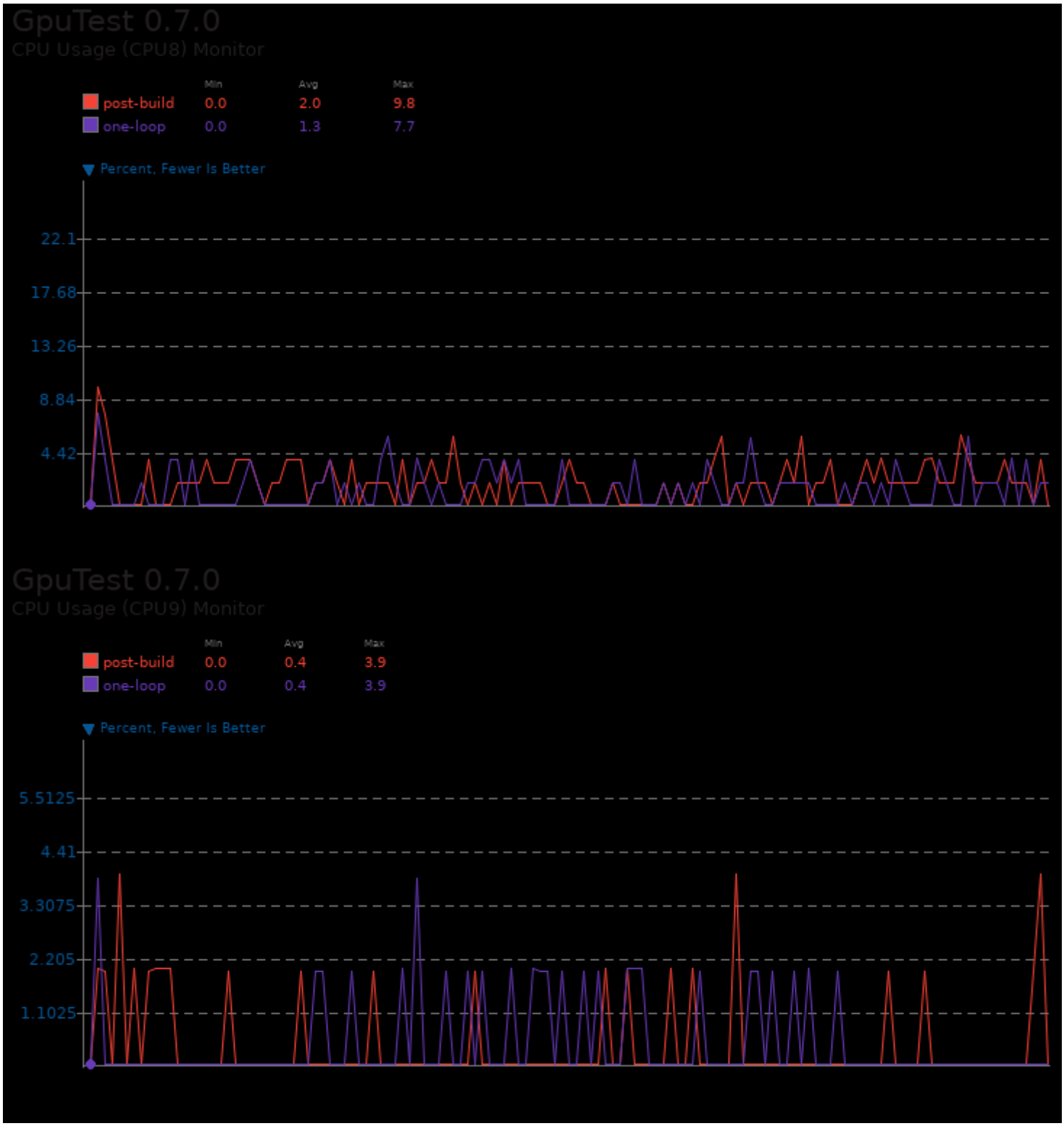
temps


GpuTest 0.7.0
CPU Usage (CPU4) Monitor
Min Avg Max
post-build 0.0 0.3 2.0
one-loop 0.0 0.2 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025
GpuTest 0.7.0
CPU Usage (CPU5) Monitor
Min Avg Max
post-build 0.0 0.7 3.9
one-loop 0.0 0.9 8.2
Percent, Fewer Is Better
15
12
9
6
3

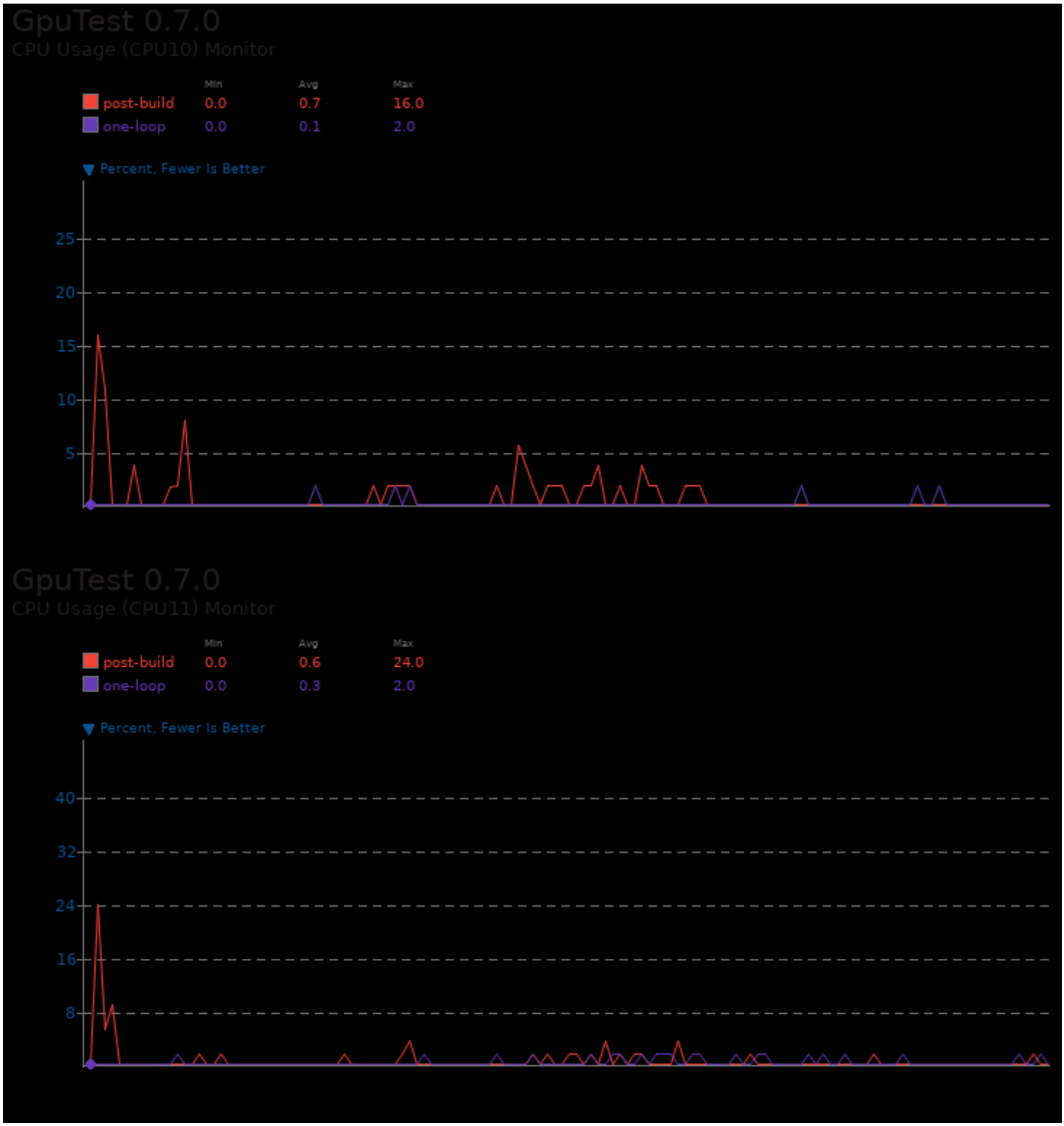
temps


GpuTest 0.7.0
CPU Usage (CPU6) Monitor
Min
Avg
Max
post-build 0.0 1.8 6.0
one-loop 0.0 1.3 5.9
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU7) Monitor
Min
Avg
Max
post-build 0.0 1.2 5.8
one-loop 0.0 0.8 5.7
Percent, Fewer Is Better
10.6
8.48
6.36
4.24
2.12

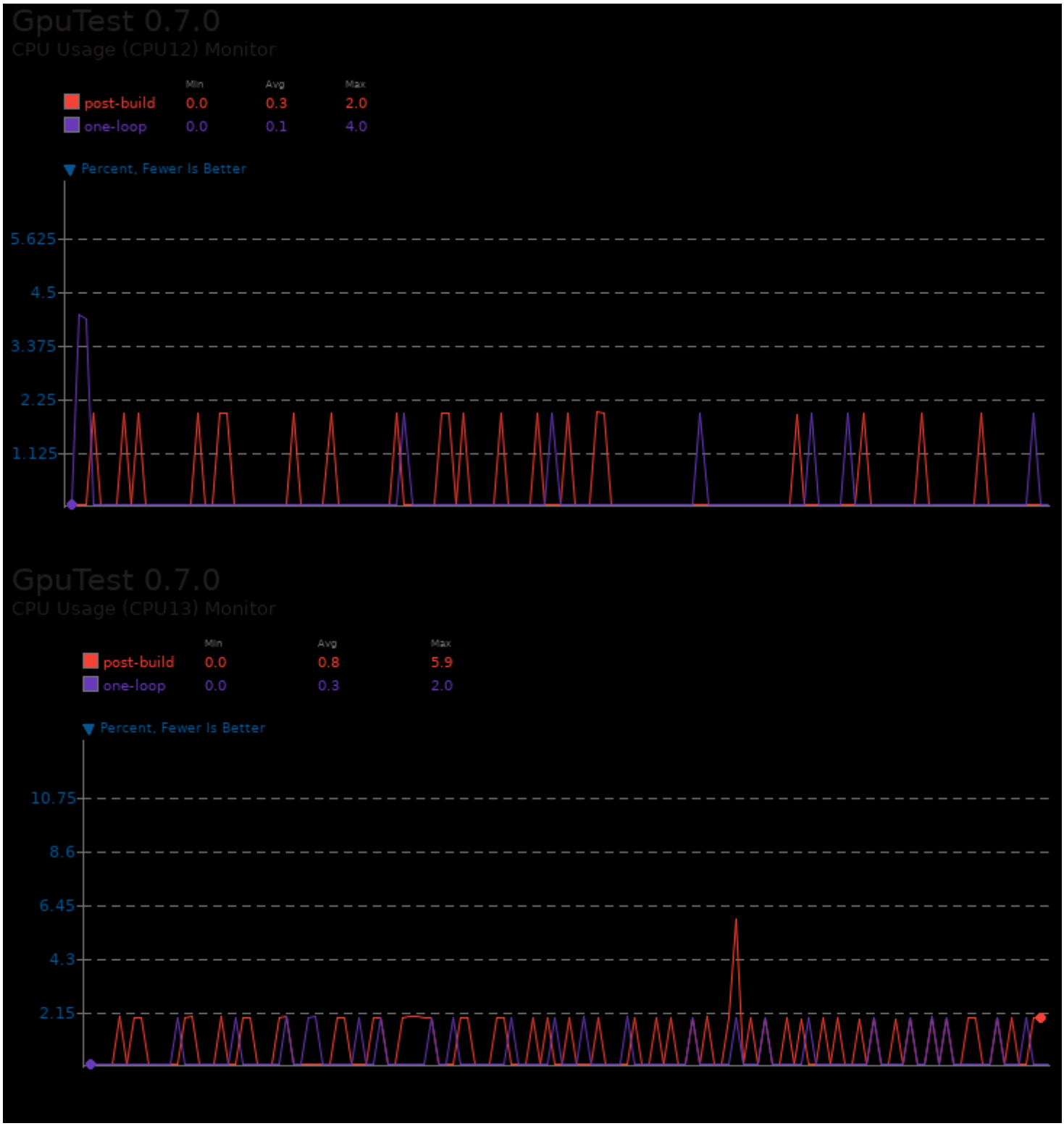
temps


GpuTest 0.7.0
CPU Usage (CPU8) Monitor
Min
Avg
Max
post-build 0.0 2.0 9.8
one-loop 0.0 1.3 7.7
Percent, Fewer Is Better
22.1
17.68
13.26
8.84
4.42
GpuTest 0.7.0
CPU Usage (CPU9) Monitor
Min
Avg
Max
post-build 0.0 0.4 3.9
one-loop 0.0 0.4 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

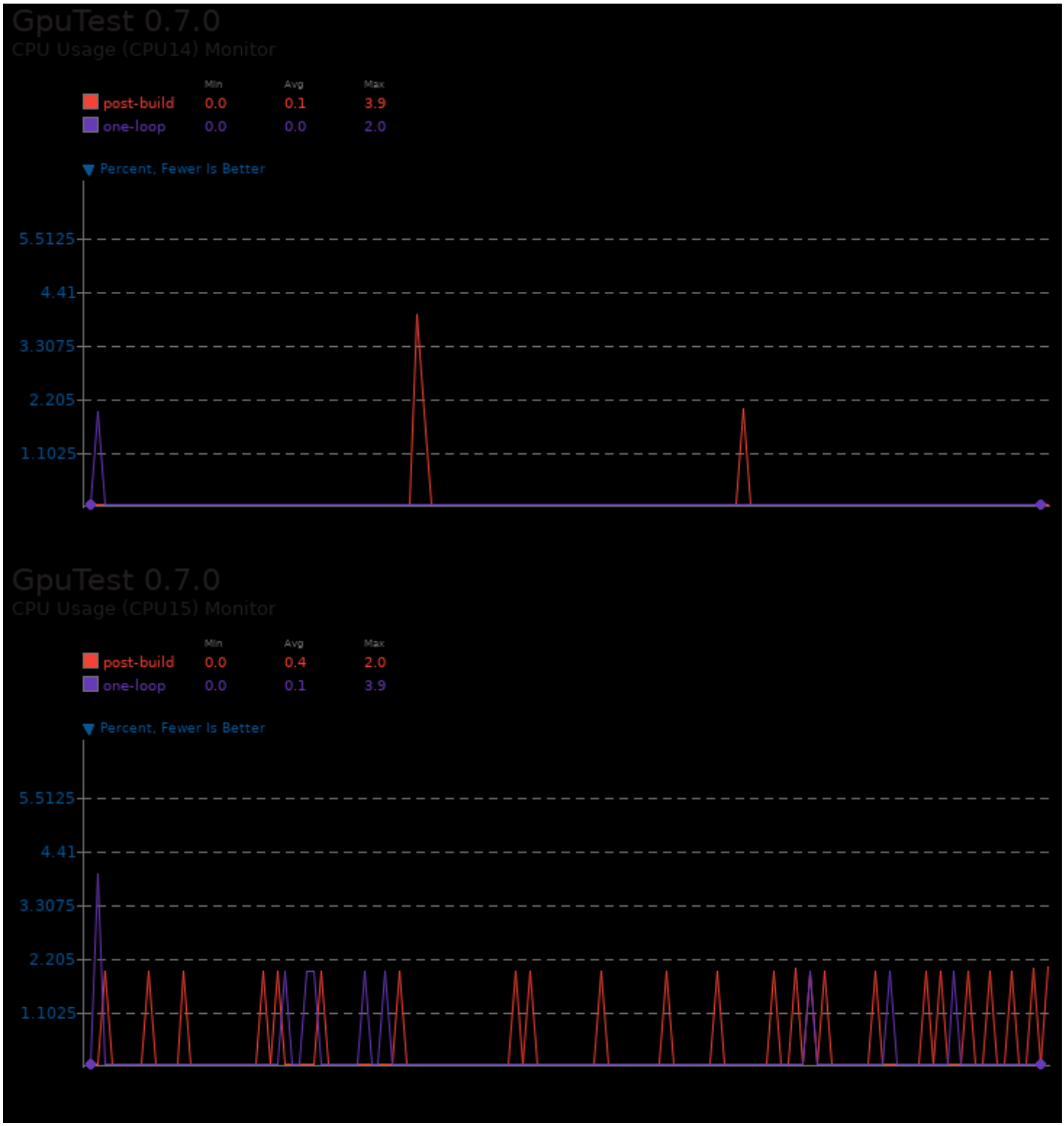
temps


GpuTest 0.7.0
CPU Usage (CPU10) Monitor
Min
Avg
Max
post-build 0.0 0.7 16.0
one-loop 0.0 0.1 2.0
Percent, Fewer Is Better
25
20
15
10
5
GpuTest 0.7.0
CPU Usage (CPU11) Monitor
Min
Avg
Max
post-build 0.0 0.6 24.0
one-loop 0.0 0.3 2.0
Percent, Fewer Is Better
40
32
24
16
8

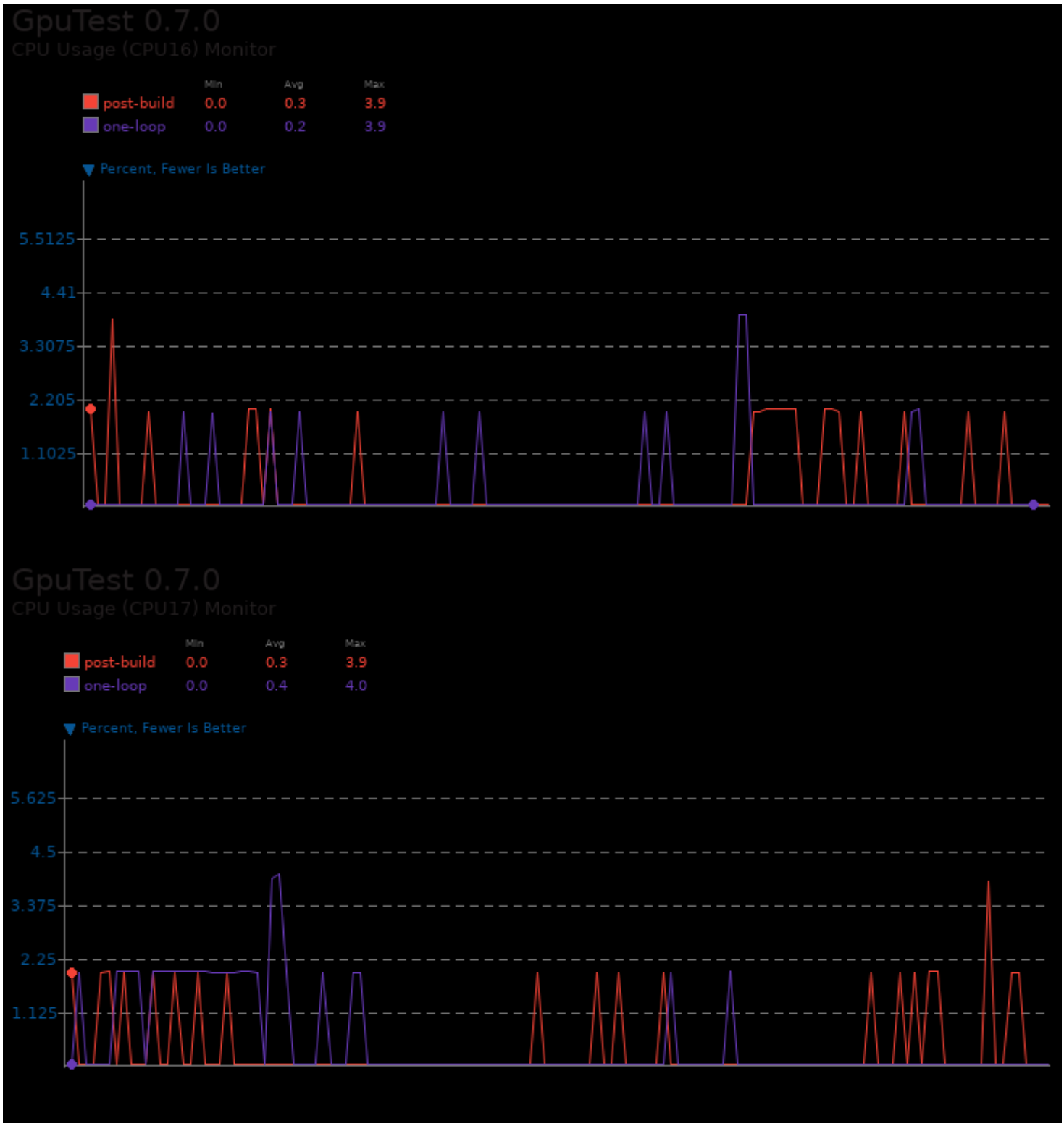
temps


GpuTest 0.7.0
CPU Usage (CPU12) Monitor
Min
Avg
Max
post-build 0.0 0.3 2.0
one-loop 0.0 0.1 4.0
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125
GpuTest 0.7.0
CPU Usage (CPU13) Monitor
Min
Avg
Max
post-build 0.0 0.8 5.9
one-loop 0.0 0.3 2.0
Percent, Fewer Is Better
10.75
8.6
6.45
4.3
2.15

temps


GpuTest 0.7.0
CPU Usage (CPU14) Monitor
Min
Avg
Max
post-build 0.0 0.1 3.9
one-loop 0.0 0.0 2.0
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025
GpuTest 0.7.0
CPU Usage (CPU15) Monitor
Min
Avg
Max
post-build 0.0 0.4 2.0
one-loop 0.0 0.1 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

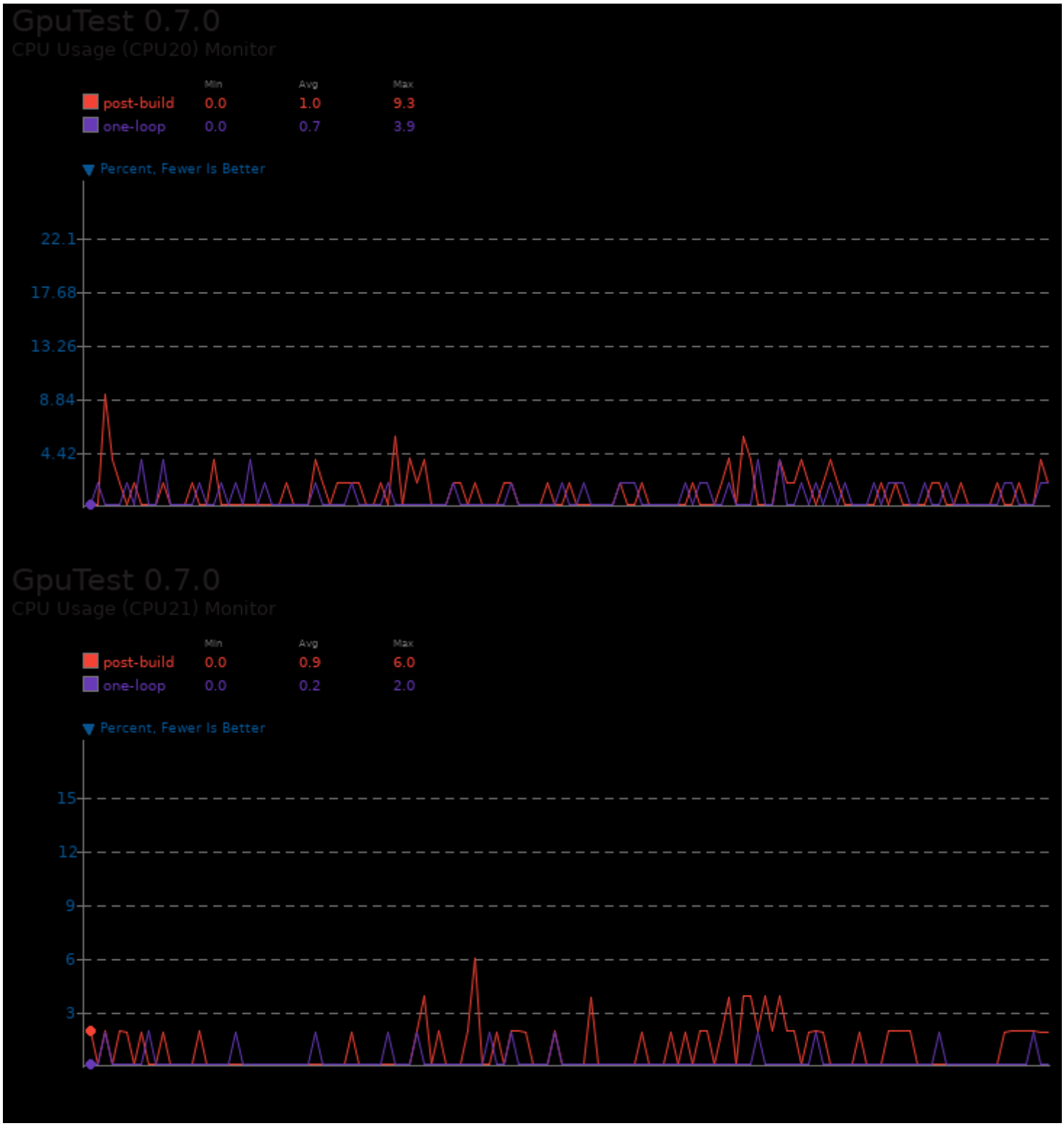
temps


GpuTest 0.7.0
CPU Usage (CPU16) Monitor
Min Avg Max
post-build 0.0 0.3 3.9
one-loop 0.0 0.2 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025
GpuTest 0.7.0
CPU Usage (CPU17) Monitor
Min Avg Max
post-build 0.0 0.3 3.9
one-loop 0.0 0.4 4.0
Percent, Fewer Is Better
5.625
4.5
3.375
2.25
1.125

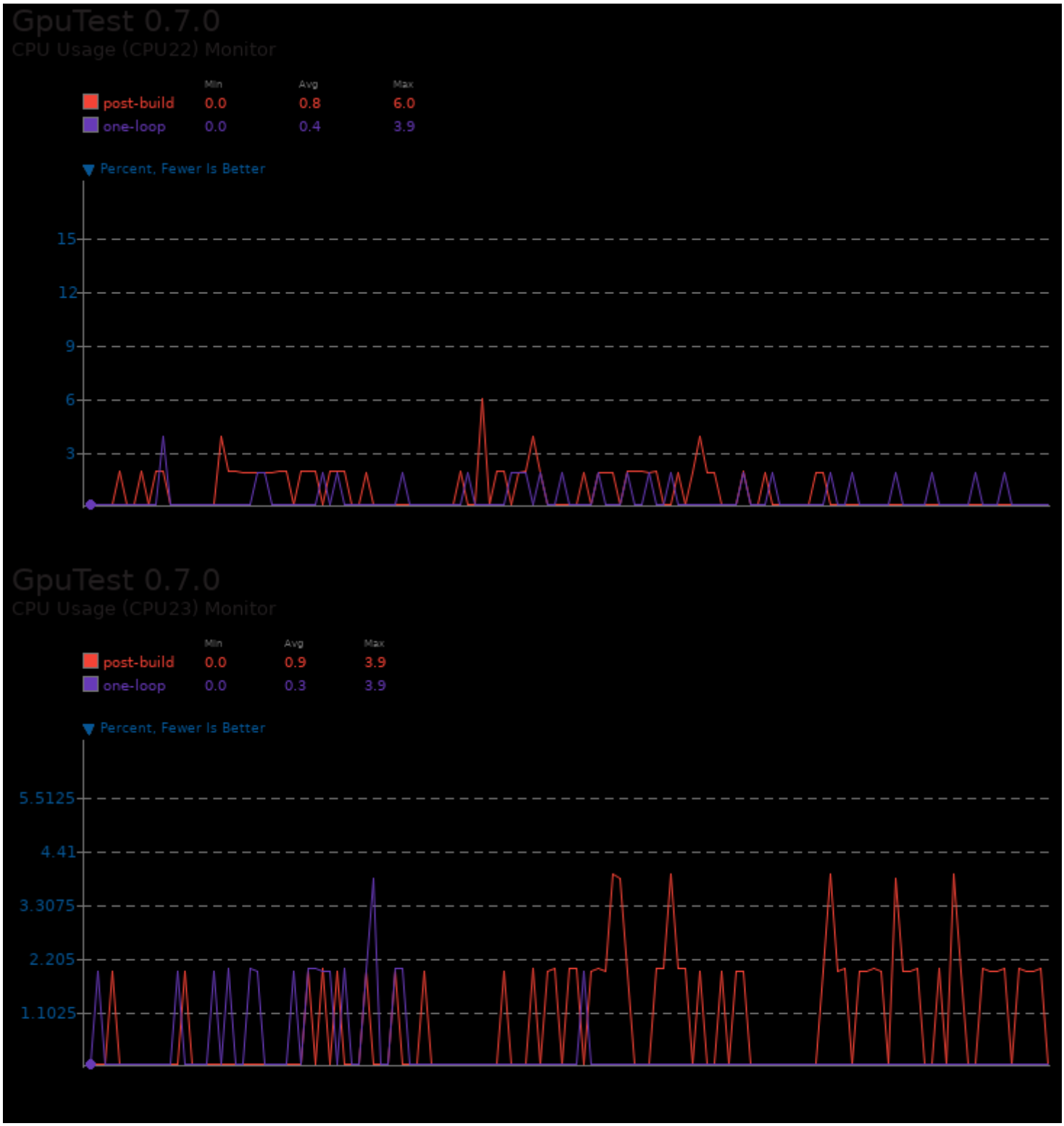
temps


GpuTest 0.7.0
CPU Usage (CPU18) Monitor
Min Avg Max
post-build 0.0 1.2 8.2
one-loop 0.0 1.3 5.9
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU19) Monitor
Min Avg Max
post-build 0.0 1.1 5.8
one-loop 0.0 1.4 7.7
Percent, Fewer Is Better
15
12
9
6
3

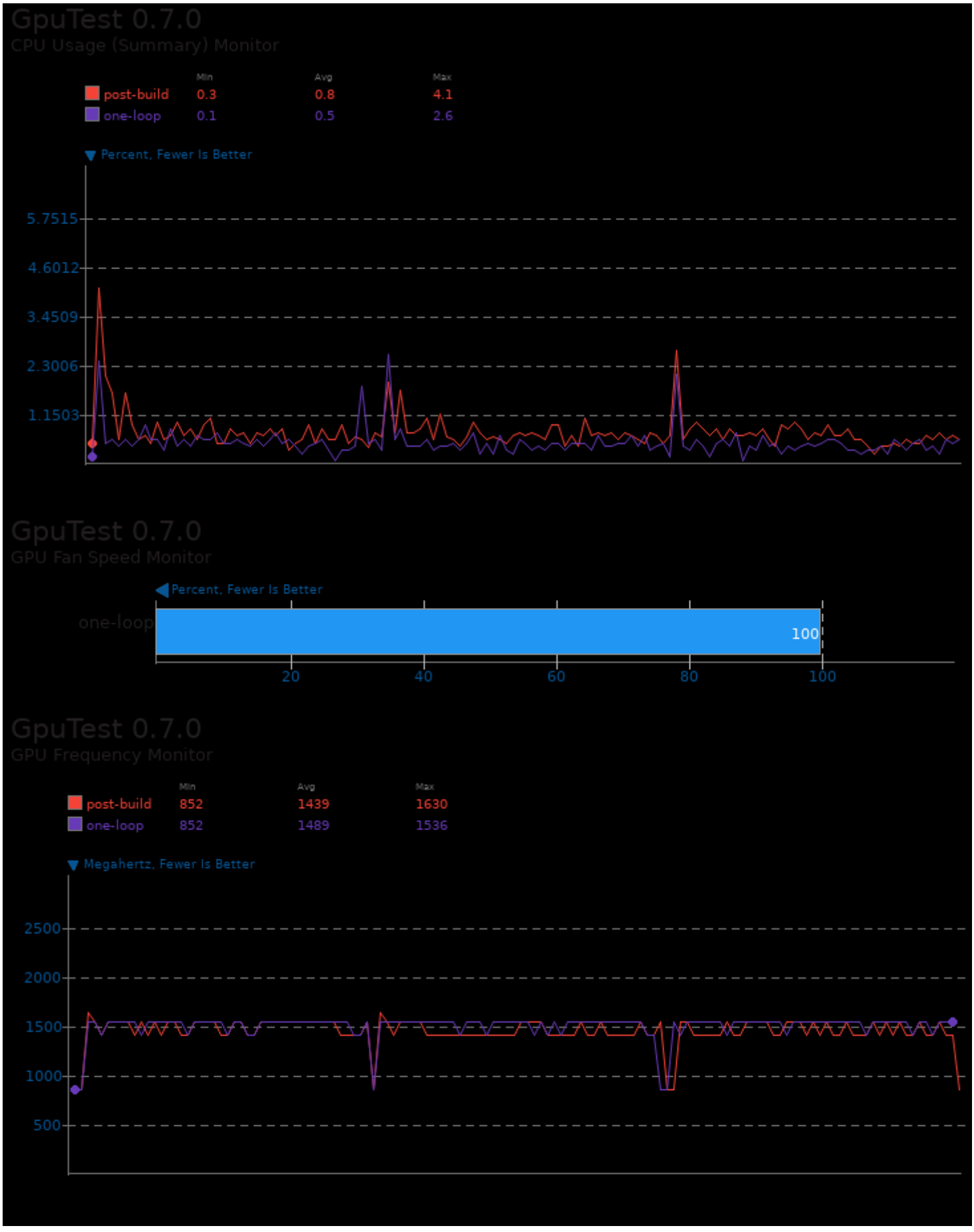
temps


GpuTest 0.7.0
CPU Usage (CPU20) Monitor
Min
Avg
Max
post-build 0.0 1.0 9.3
one-loop 0.0 0.7 3.9
Percent, Fewer Is Better
22.1
17.68
13.26
8.84
4.42
GpuTest 0.7.0
CPU Usage (CPU21) Monitor
Min
Avg
Max
post-build 0.0 0.9 6.0
one-loop 0.0 0.2 2.0
Percent, Fewer Is Better
15
12
9
6
3

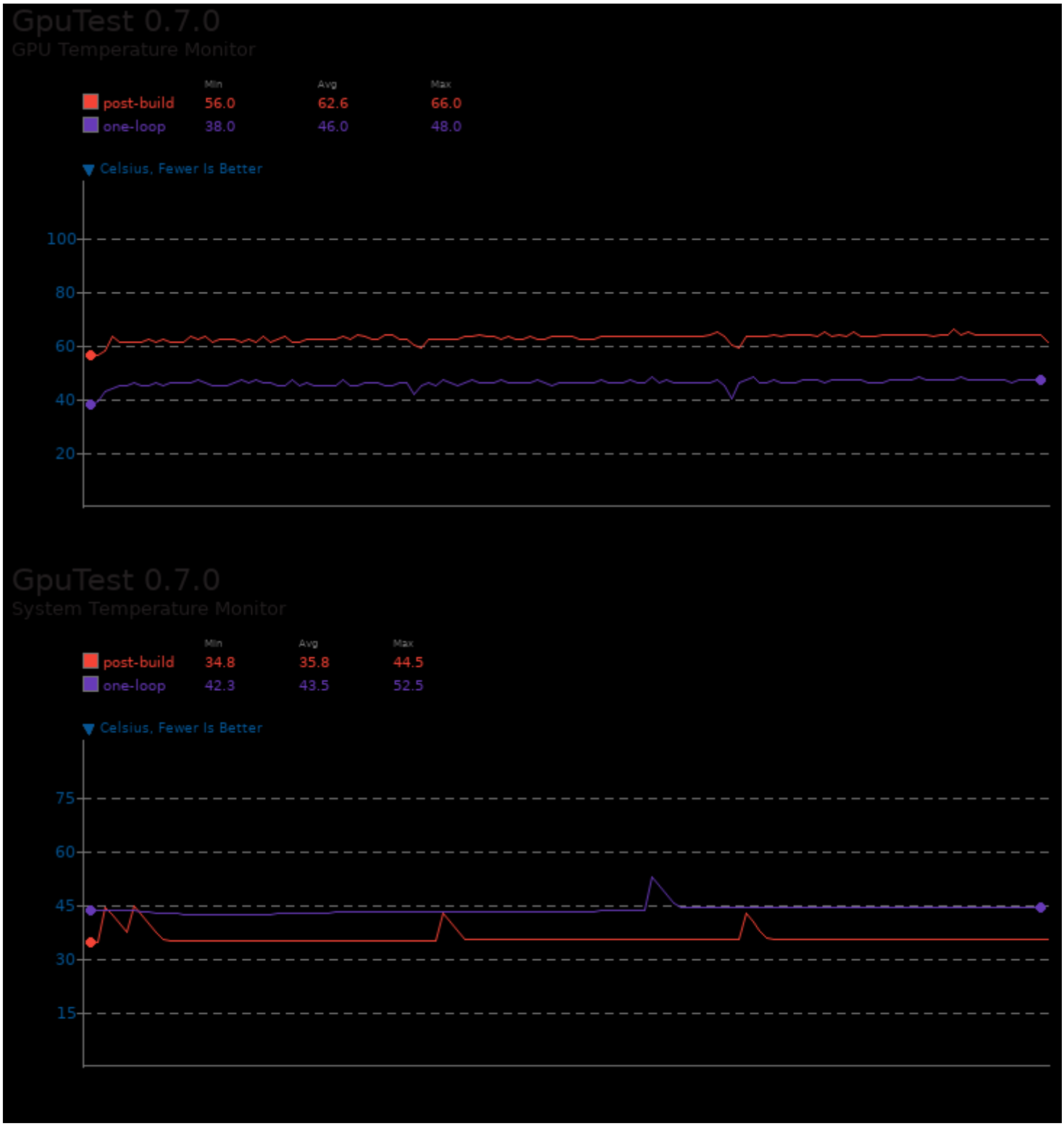
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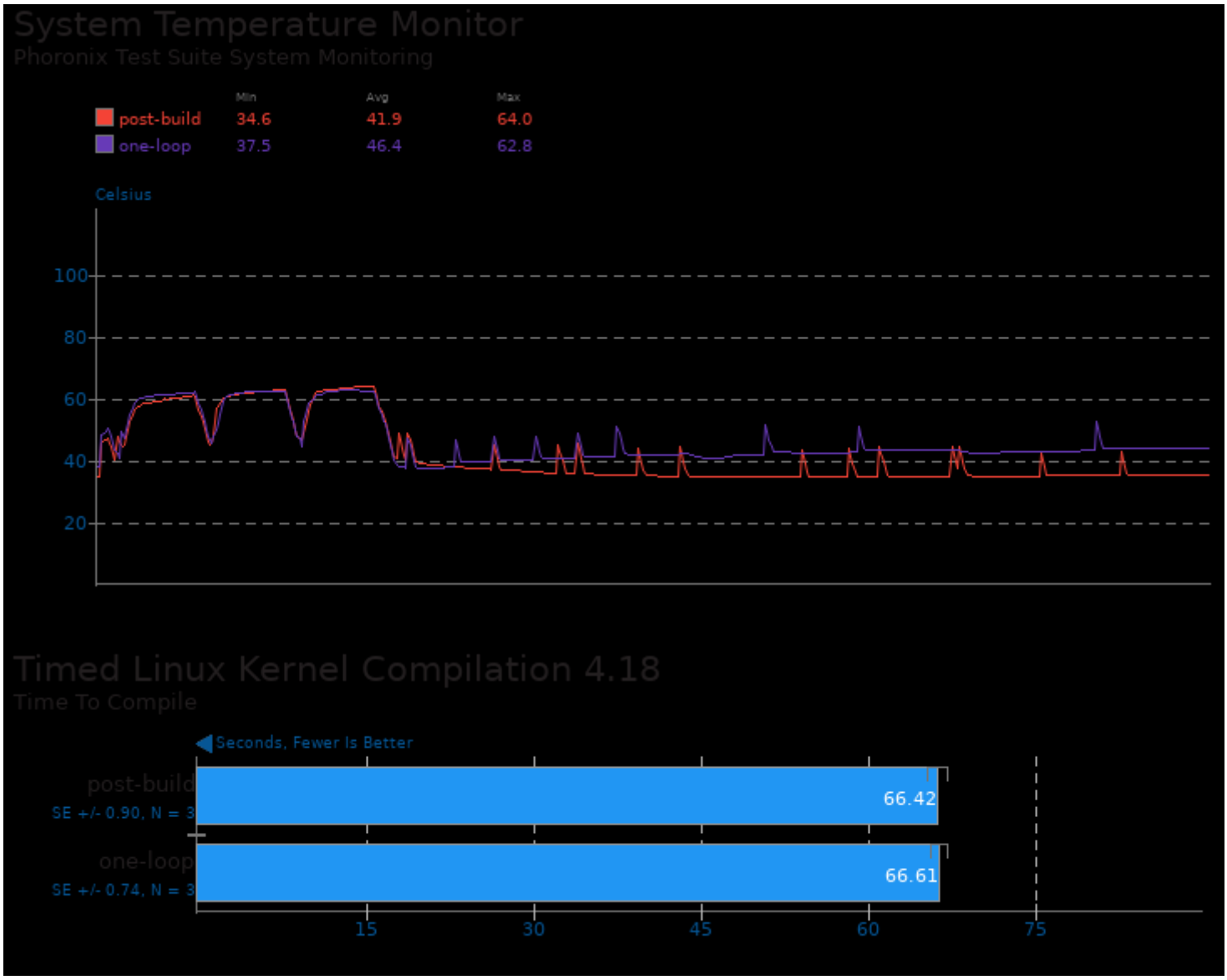

GpuTest 0.7.0
CPU Usage (CPU22) Monitor
Min
Avg
Max
post-build 0.0 0.8 6.0
one-loop 0.0 0.4 3.9
Percent, Fewer Is Better
15
12
9
6
3
GpuTest 0.7.0
CPU Usage (CPU23) Monitor
Min
Avg
Max
post-build 0.0 0.9 3.9
one-loop 0.0 0.3 3.9
Percent, Fewer Is Better
5.5125
4.41
3.3075
2.205
1.1025

temps

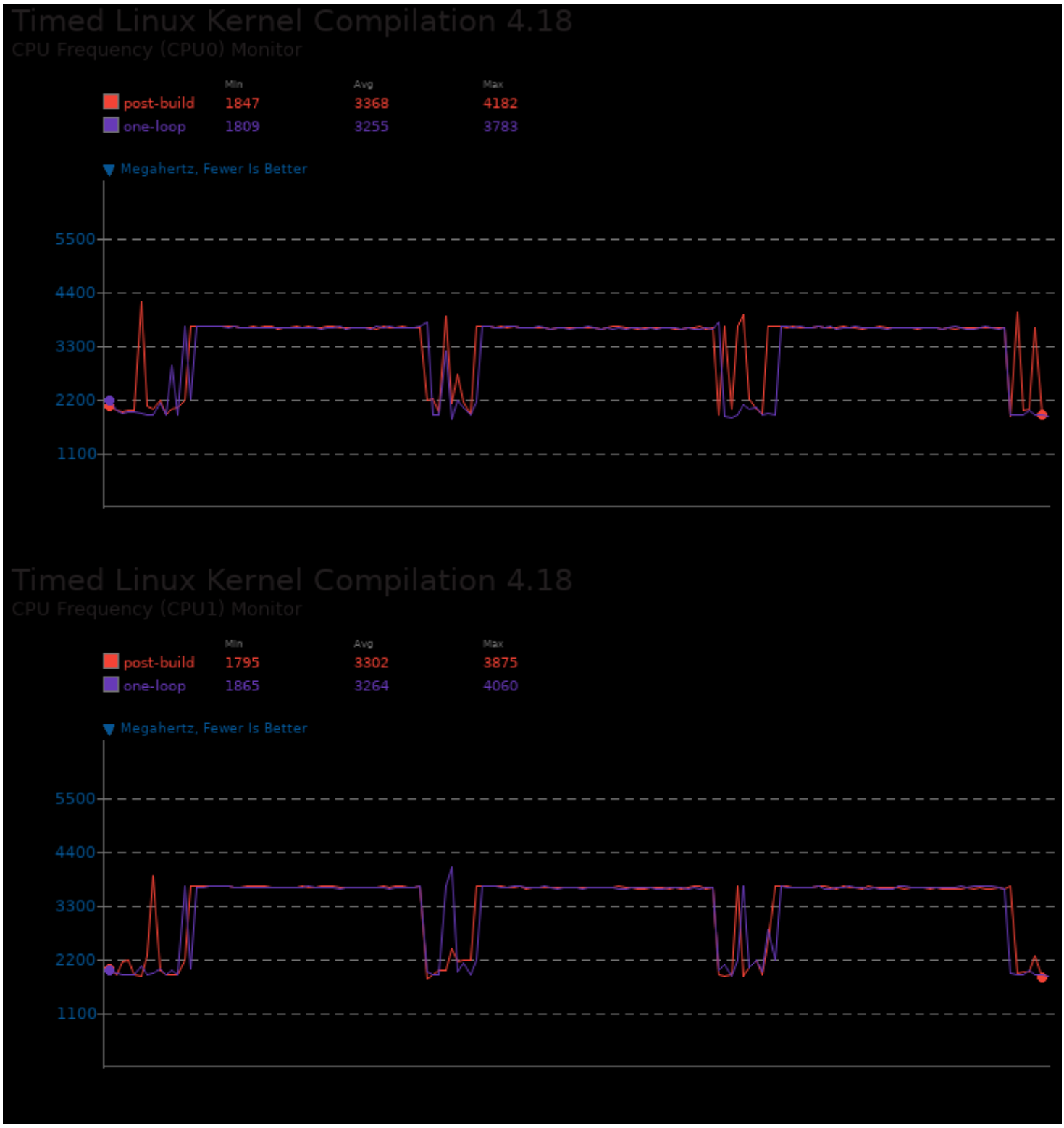

GpuTest 0.7.0
CPU Usage (Summary) Monitor
Min
Avg
Max
post-build 0.3 0.8 4.1
one-loop 0.1 0.5 2.6
Percent, Fewer Is Better
5.7515
4.6012
3.4509
2.3006
1.1503
GpuTest 0.7.0
GPU Fan Speed Monitor
Percent, Fewer Is Better
one-loop
100
20
40
60
80
100
GpuTest 0.7.0
GPU Frequency Monitor
Min
Avg
Max
post-build 852 1439 1630
one-loop 852 1489 1536
Megahertz, Fewer Is Better
2500
2000
1500
1000
500

temps

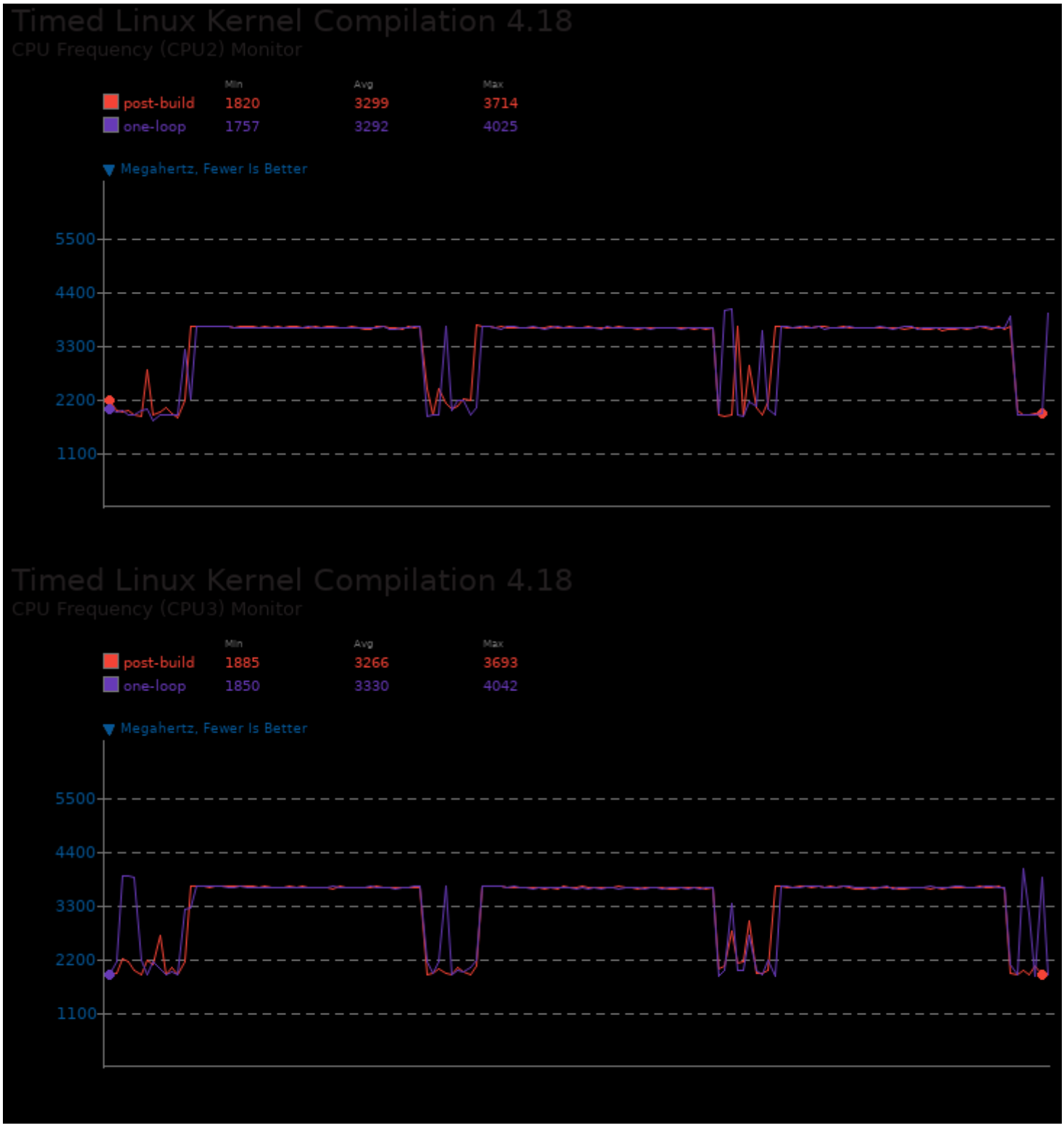

GpuTest 0.7.0
GPU Temperature Monitor
Min
Avg
Max
post-build 56.0 62.6 66.0
one-loop 38.0 46.0 48.0
Celsius, Fewer Is Better
100
80
60
40
20
GpuTest 0.7.0
System Temperature Monitor
Min
Avg
Max
post-build 34.8 35.8 44.5
one-loop 42.3 43.5 52.5
Celsius, Fewer Is Better
75
60
45
30
15

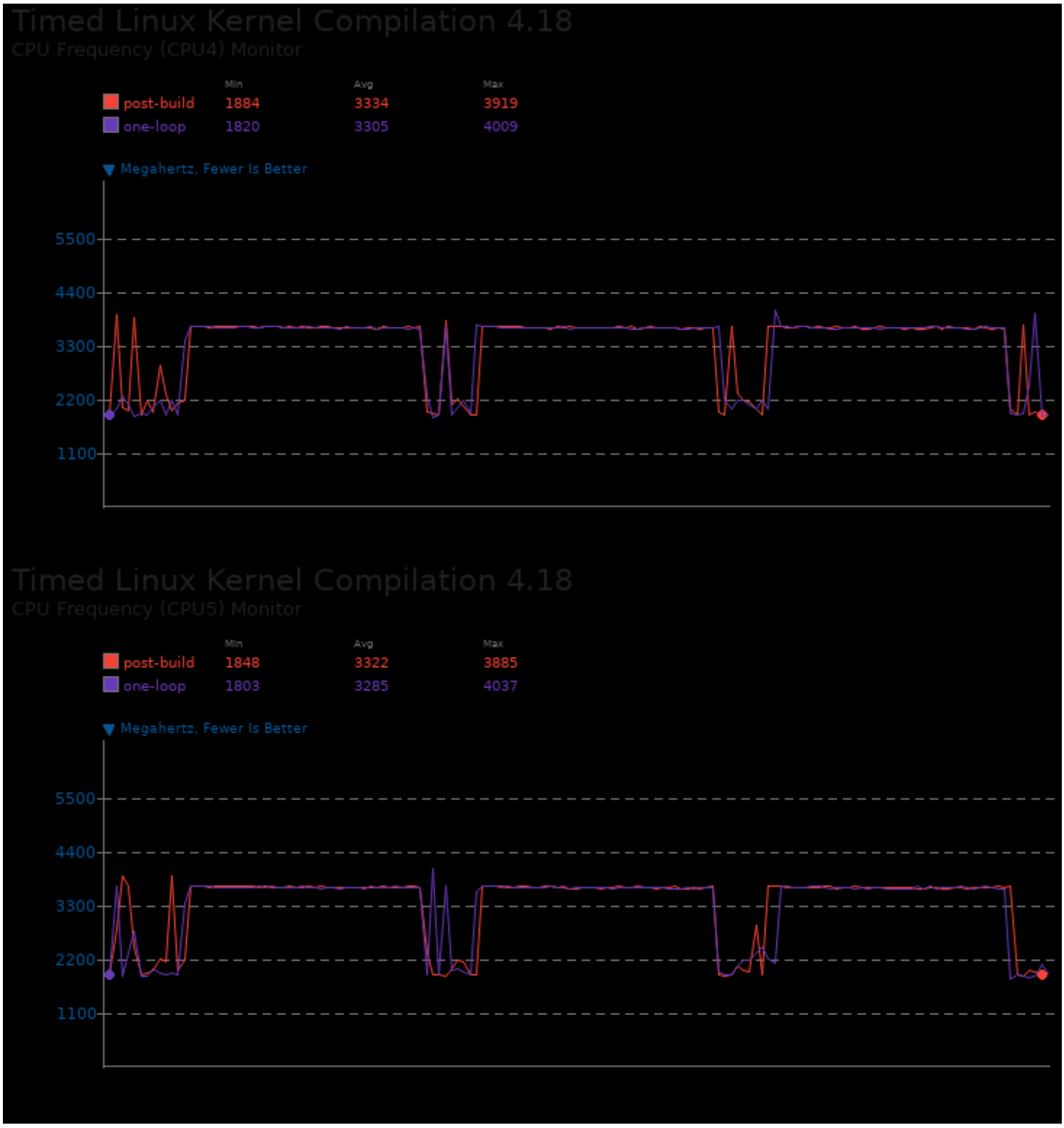

System Temperature Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
post-build 34.6 41.9 64.0
one-loop 37.5 46.4 62.8
Celsius
100
80
60
40
20

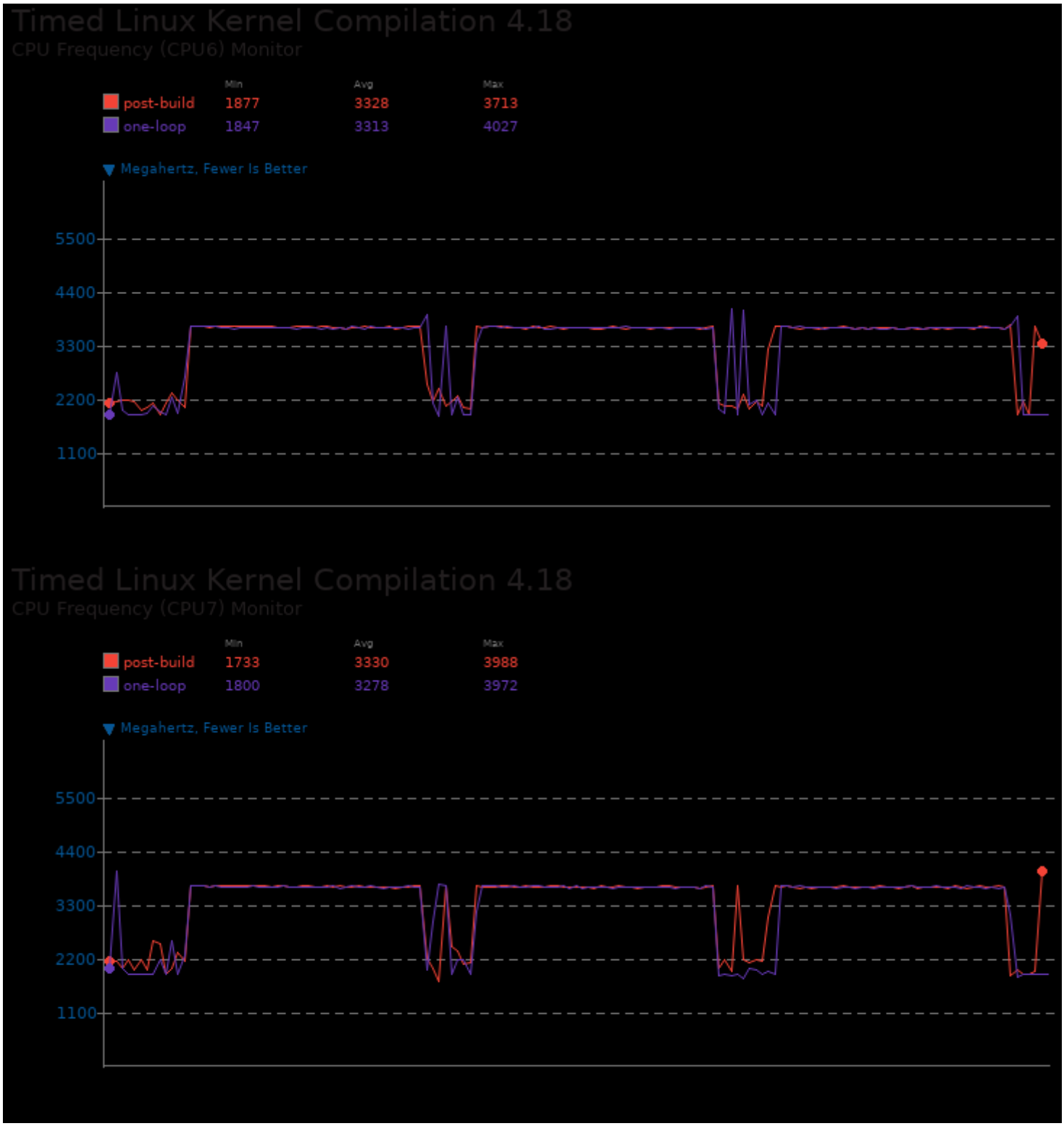
Timed Linux Kernel Compilation 4.18
Time To Compile
Seconds, Fewer Is Better
post-build
SE +/- 0.90, N = 3
66.42
one-loop
SE +/- 0.74, N = 3
66.61
15
30
45
60
75


Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU0) Monitor
Min
Avg
Max
post-build 1847 3368 4182
one-loop 1809 3255 3783
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU1) Monitor
Min
Avg
Max
post-build 1795 3302 3875
one-loop 1865 3264 4060
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

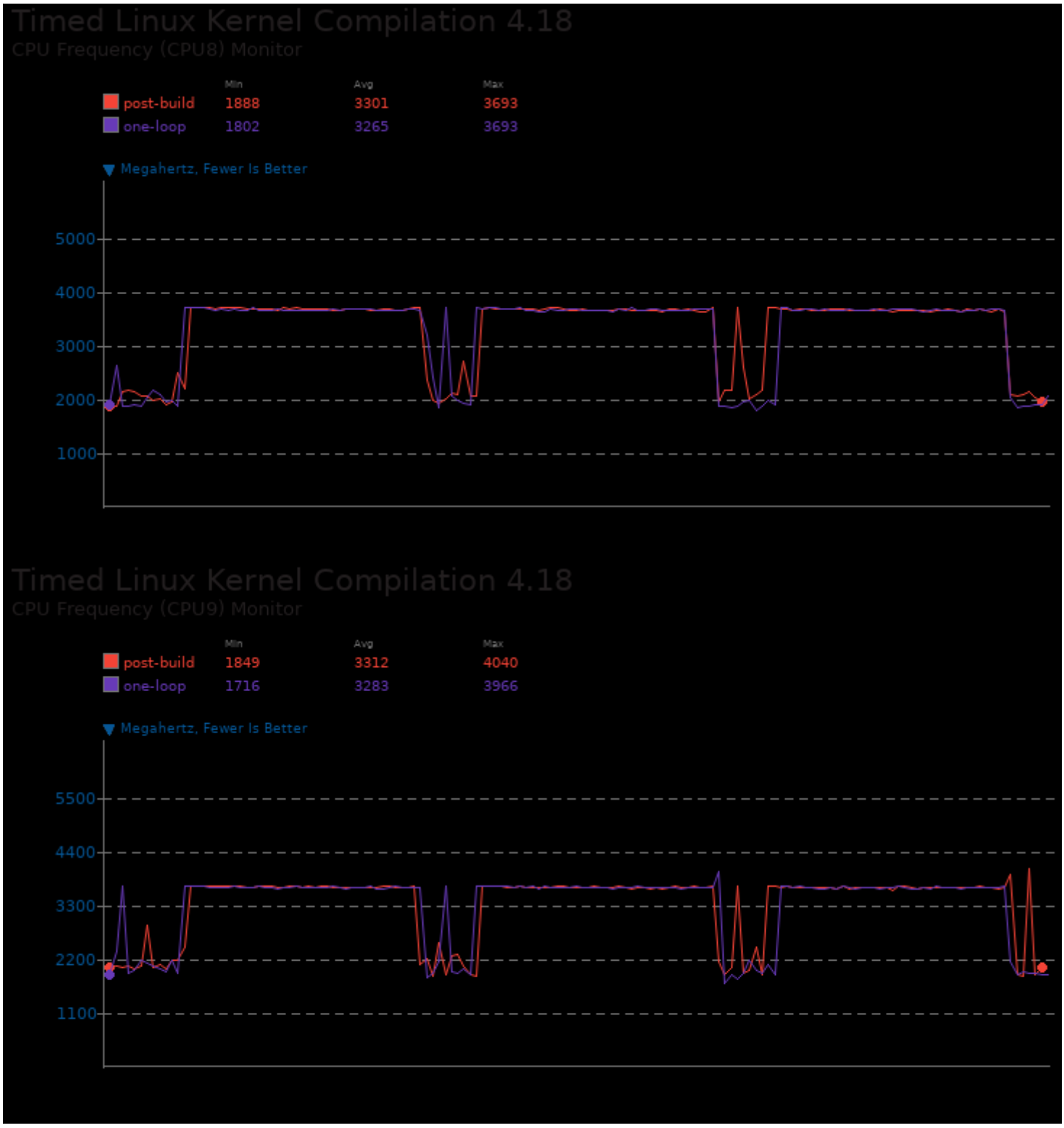
temps

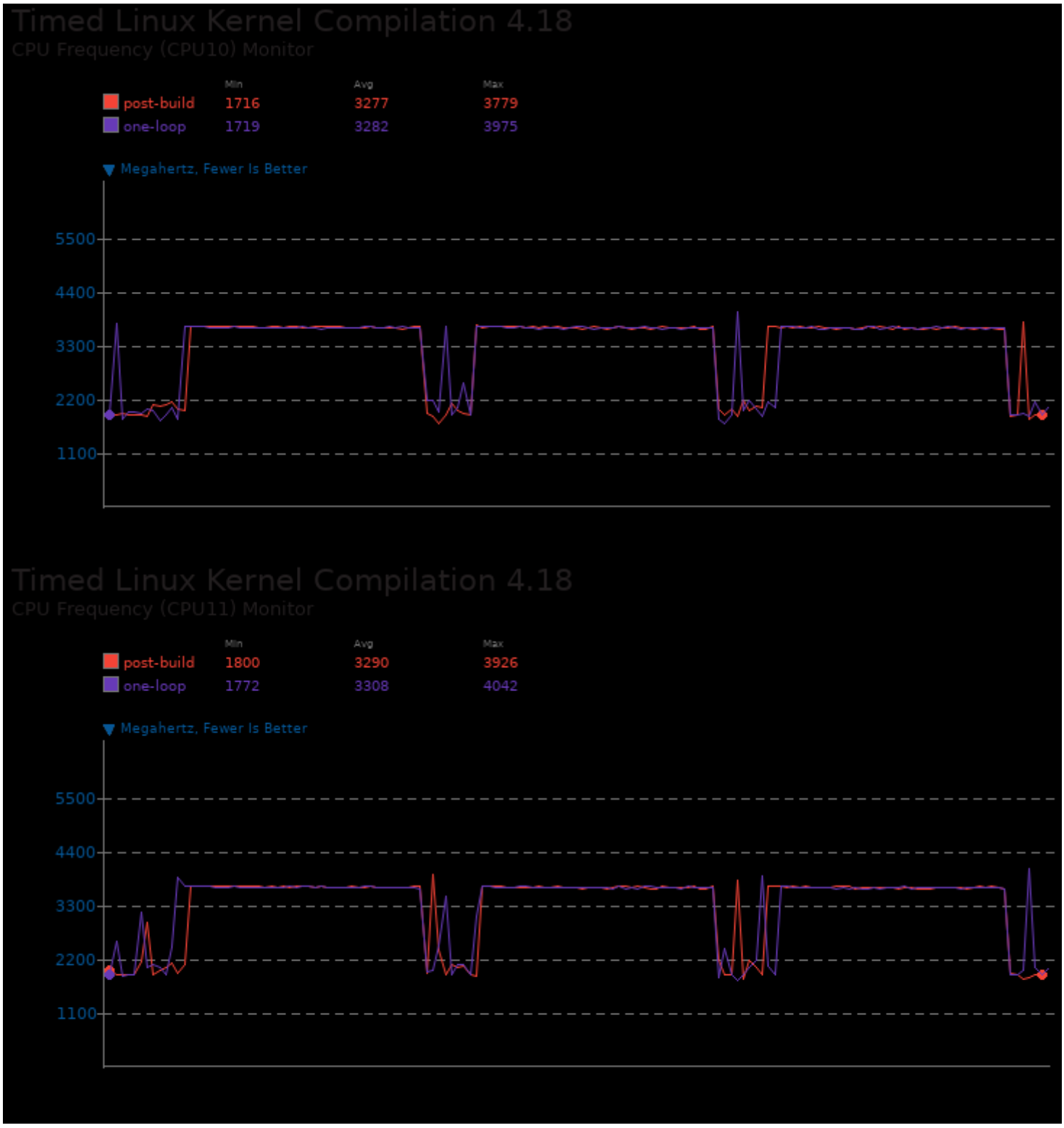

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU2) Monitor
Min
Avg
Max
post-build 1820 3299 3714
one-loop 1757 3292 4025
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU3) Monitor
Min
Avg
Max
post-build 1885 3266 3693
one-loop 1850 3330 4042
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

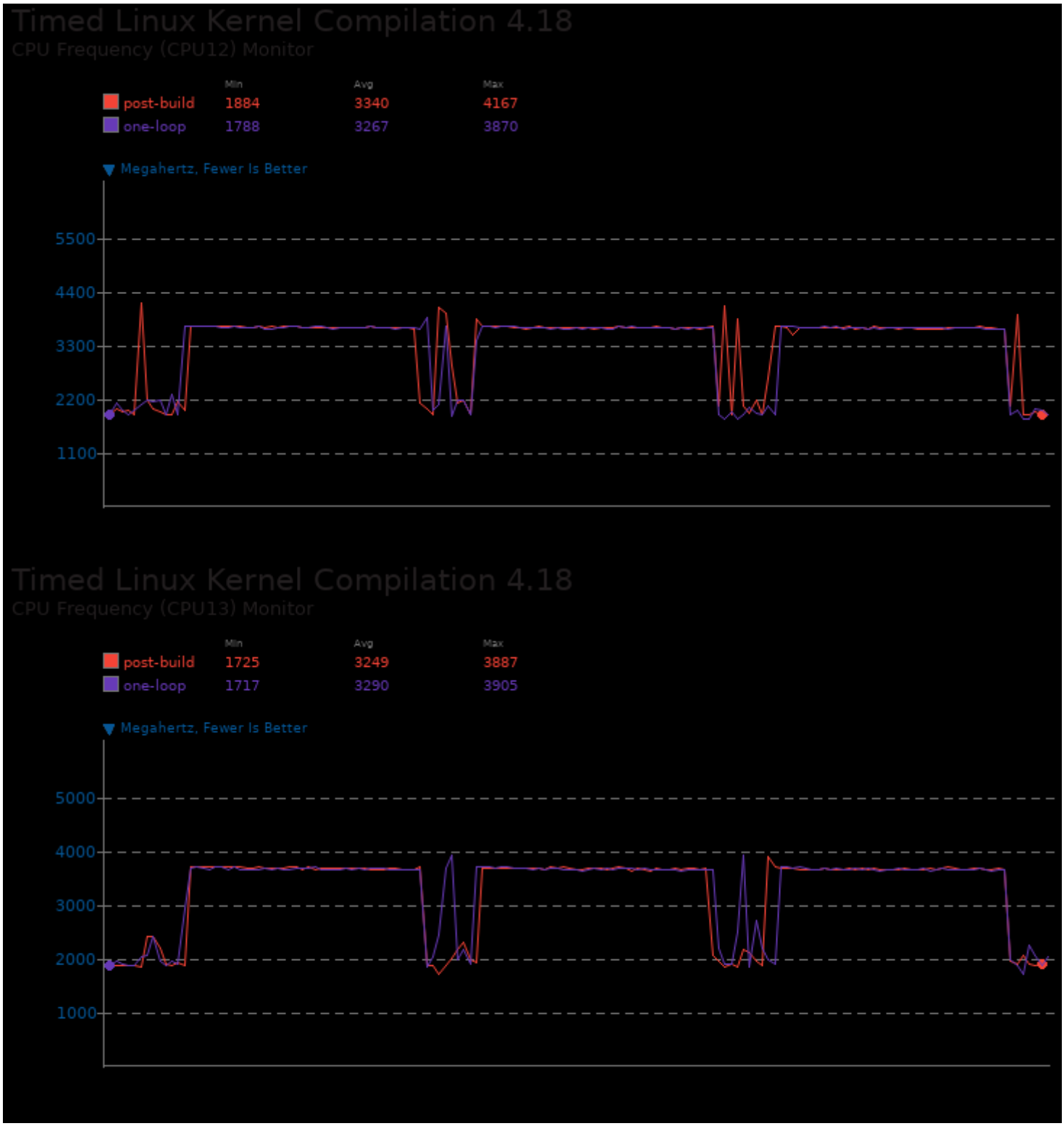

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU4) Monitor
Min
Avg
Max
post-build 1884 3334 3919
one-loop 1820 3305 4009
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU5) Monitor
Min
Avg
Max
post-build 1848 3322 3885
one-loop 1803 3285 4037
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100


Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU6) Monitor
Min
Avg
Max
post-build 1877 3328 3713
one-loop 1847 3313 4027
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU7) Monitor
Min
Avg
Max
post-build 1733 3330 3988
one-loop 1800 3278 3972
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

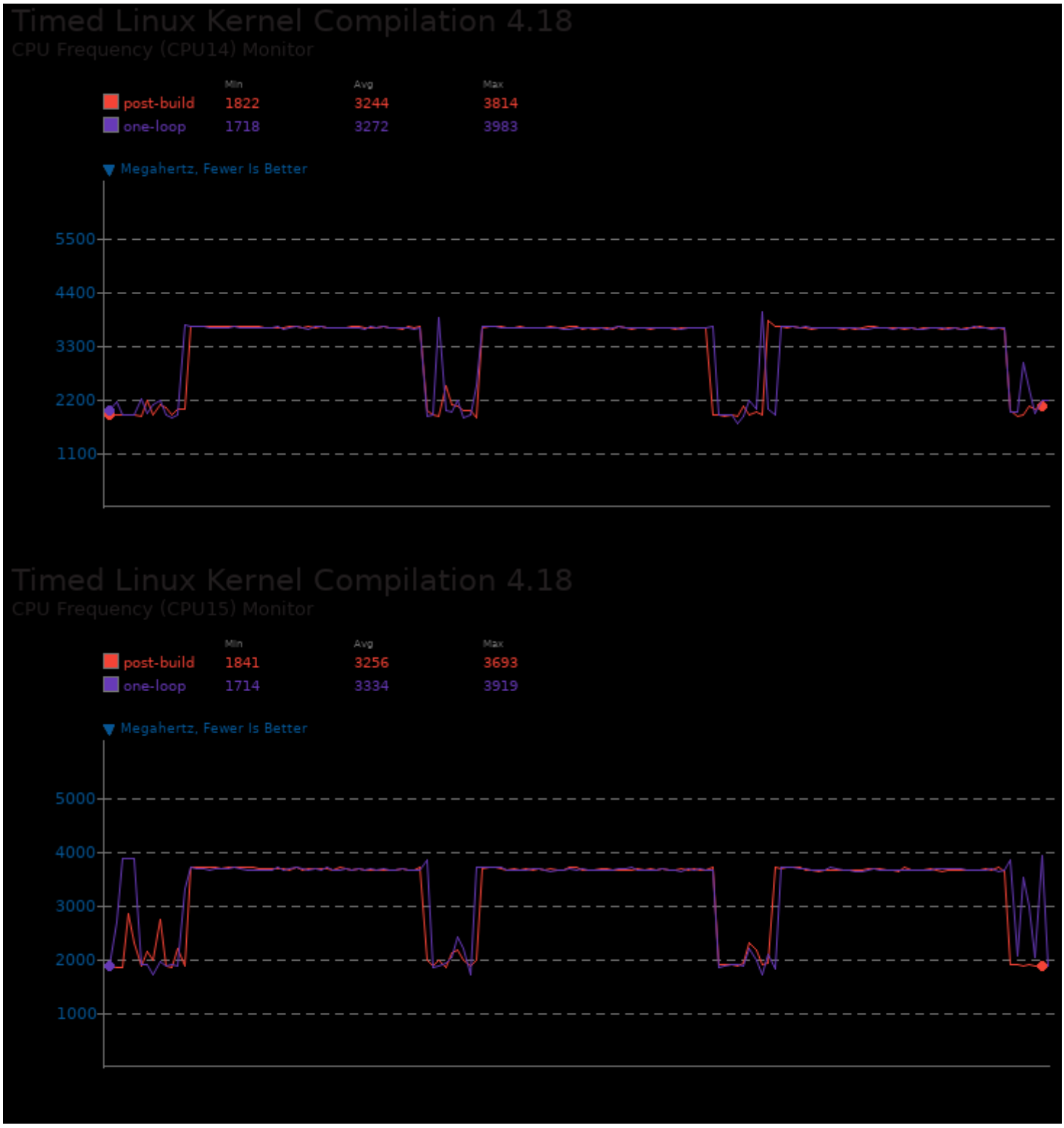
temps

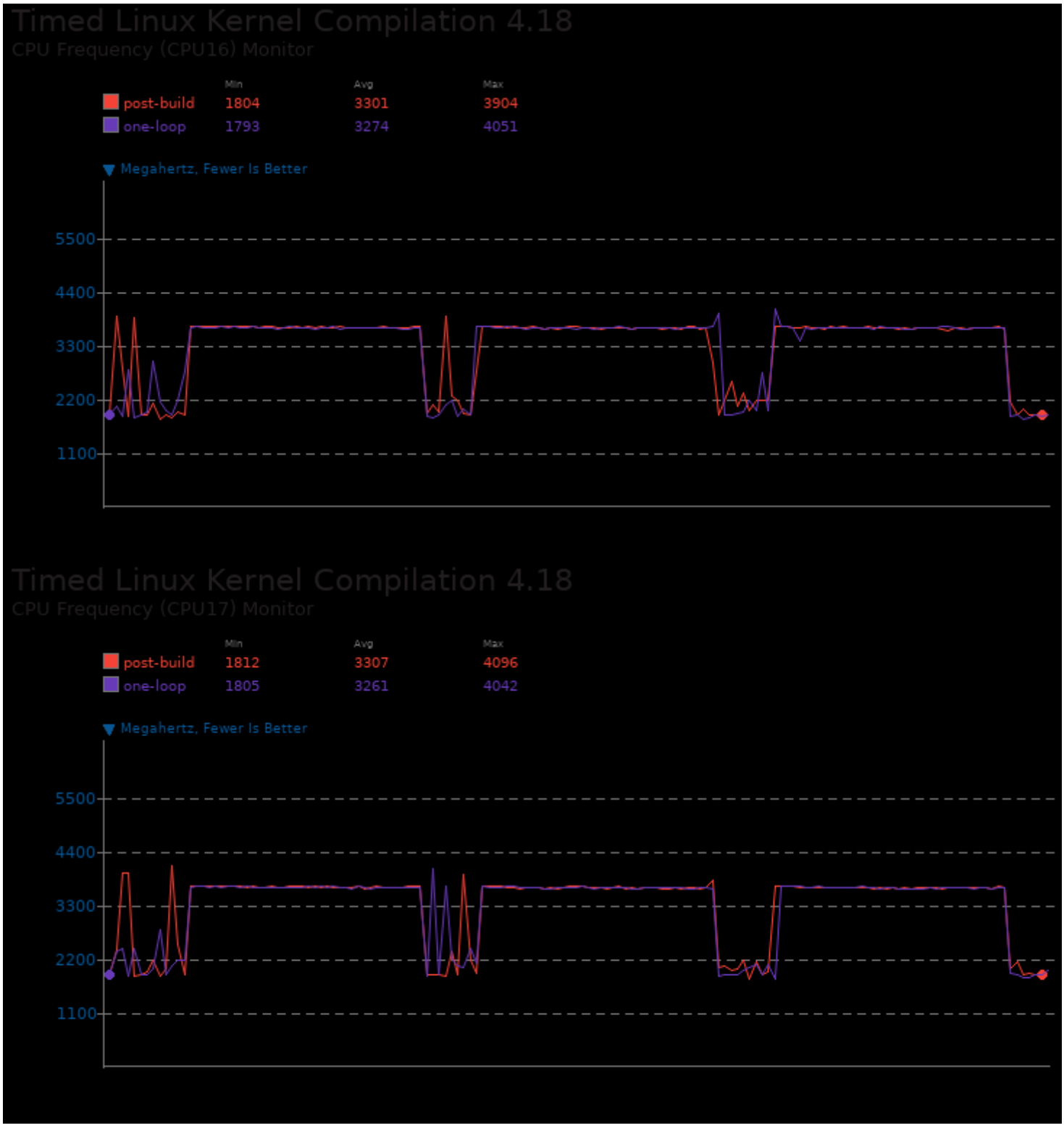

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU8) Monitor
Min
Avg
Max
post-build 1888 3301 3693
one-loop 1802 3265 3693
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU9) Monitor
Min
Avg
Max
post-build 1849 3312 4040
one-loop 1716 3283 3966
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100


Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU10) Monitor
Min
Avg
Max
post-build 1716 3277 3779
one-loop 1719 3282 3975
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU11) Monitor
Min
Avg
Max
post-build 1800 3290 3926
one-loop 1772 3308 4042
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

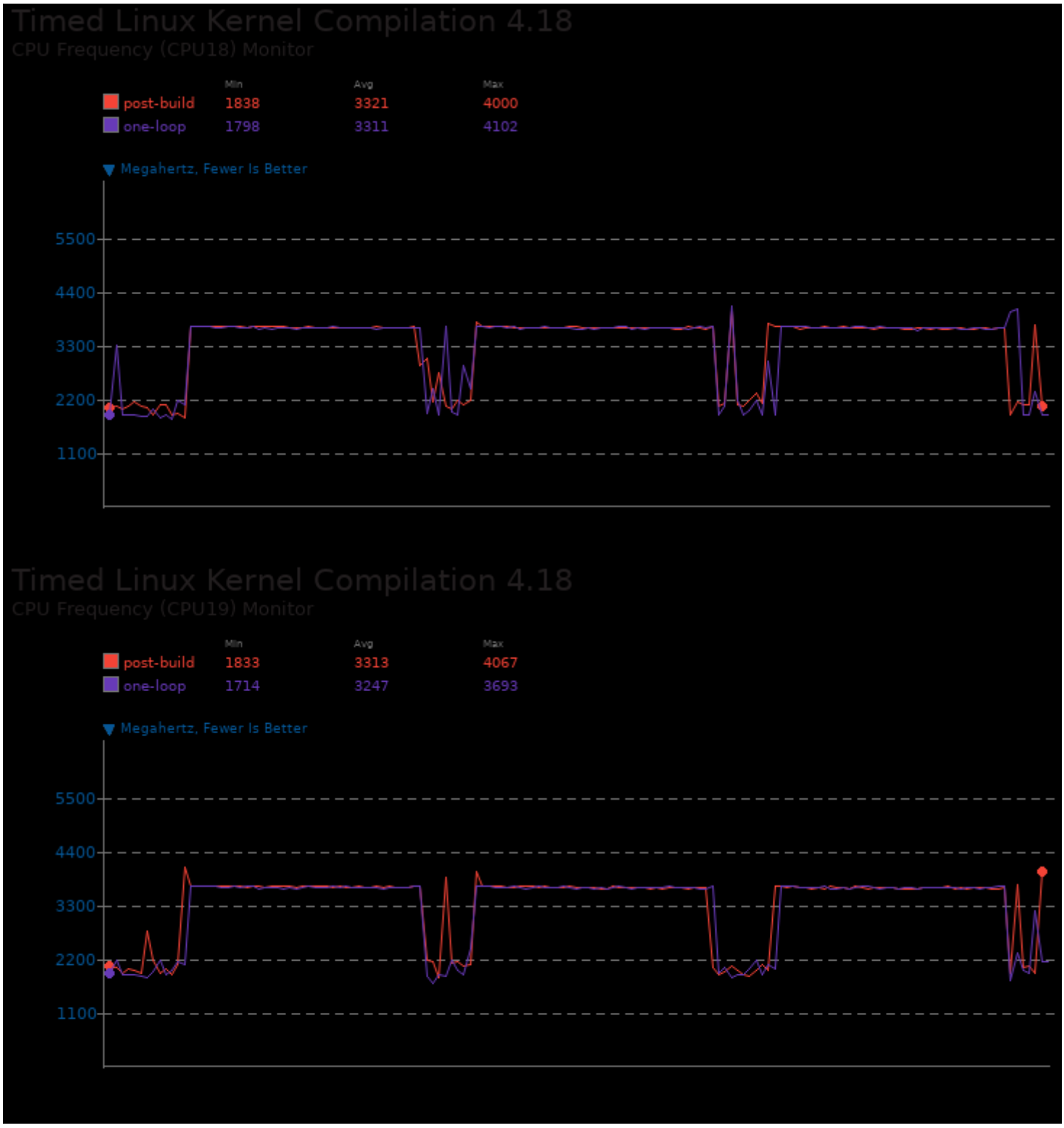

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU12) Monitor
Min
Avg
Max
post-build 1884 3340 4167
one-loop 1788 3267 3870
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU13) Monitor
Min
Avg
Max
post-build 1725 3249 3887
one-loop 1717 3290 3905
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

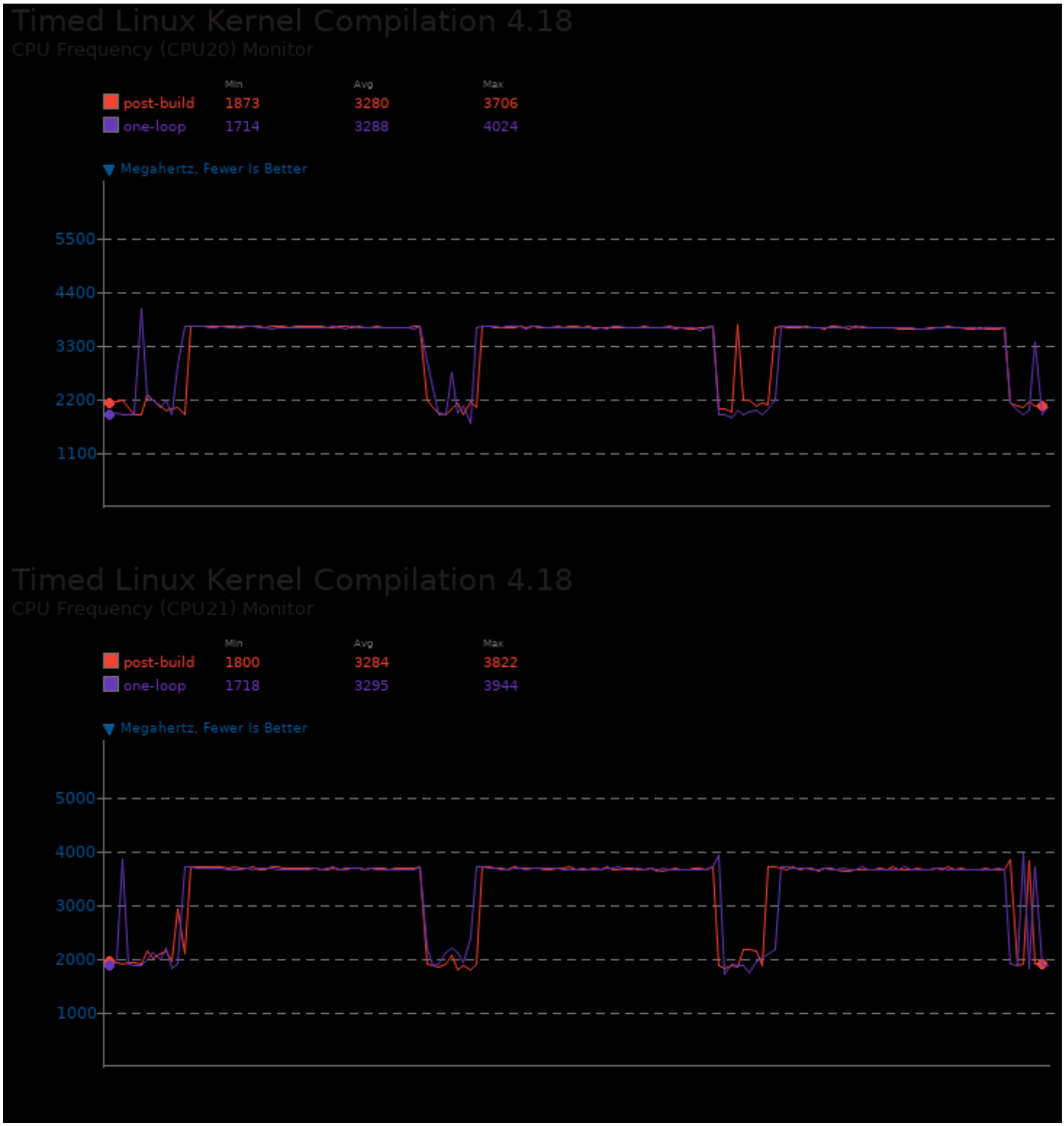
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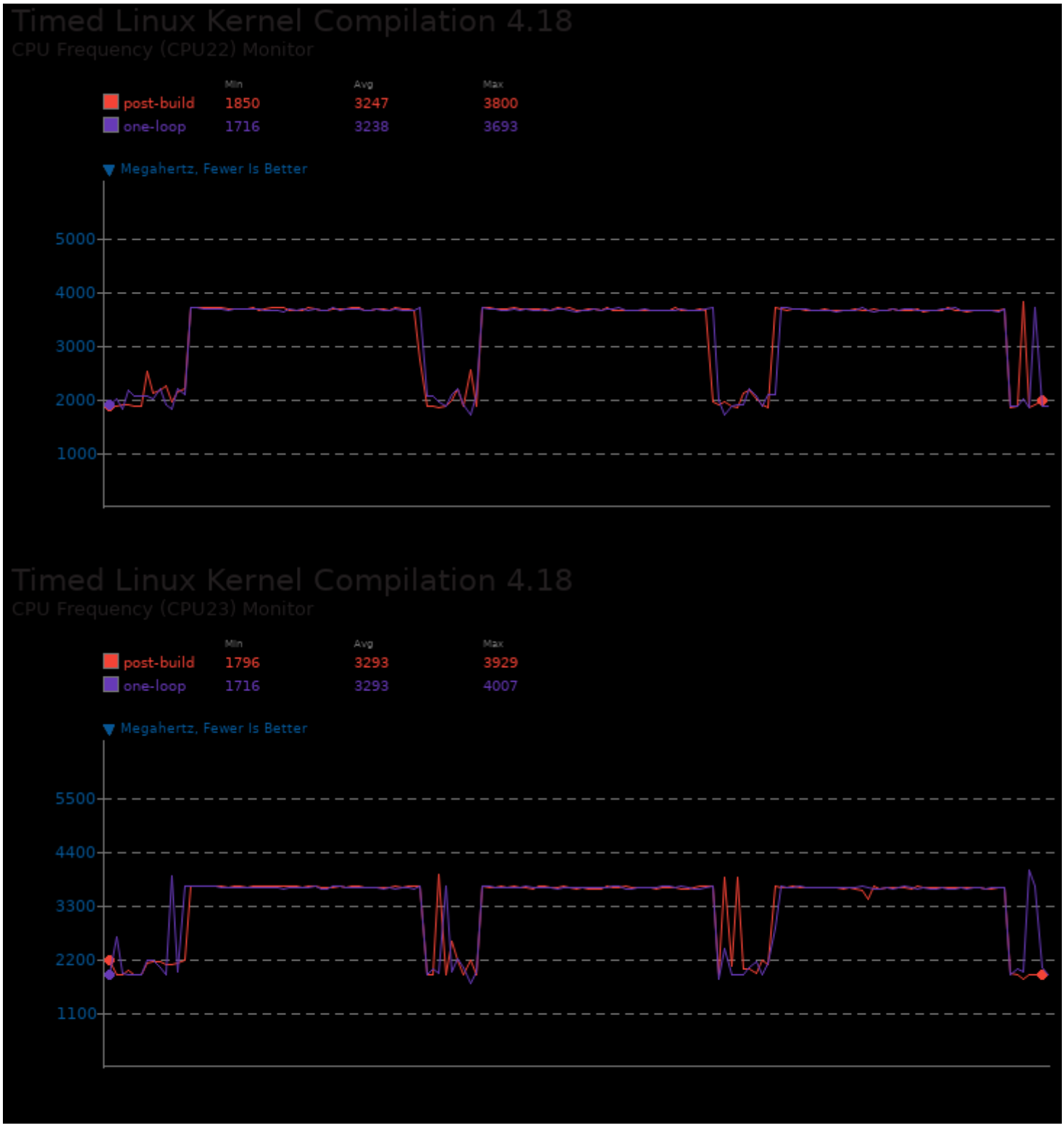

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU14) Monitor
Min
Avg
Max
post-build 1822 3244 3814
one-loop 1718 3272 3983
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU15) Monitor
Min
Avg
Max
post-build 1841 3256 3693
one-loop 1714 3334 3919
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000


Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU16) Monitor
Min
Avg
Max
post-build 1804 3301 3904
one-loop 1793 3274 4051
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU17) Monitor
Min
Avg
Max
post-build 1812 3307 4096
one-loop 1805 3261 4042
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

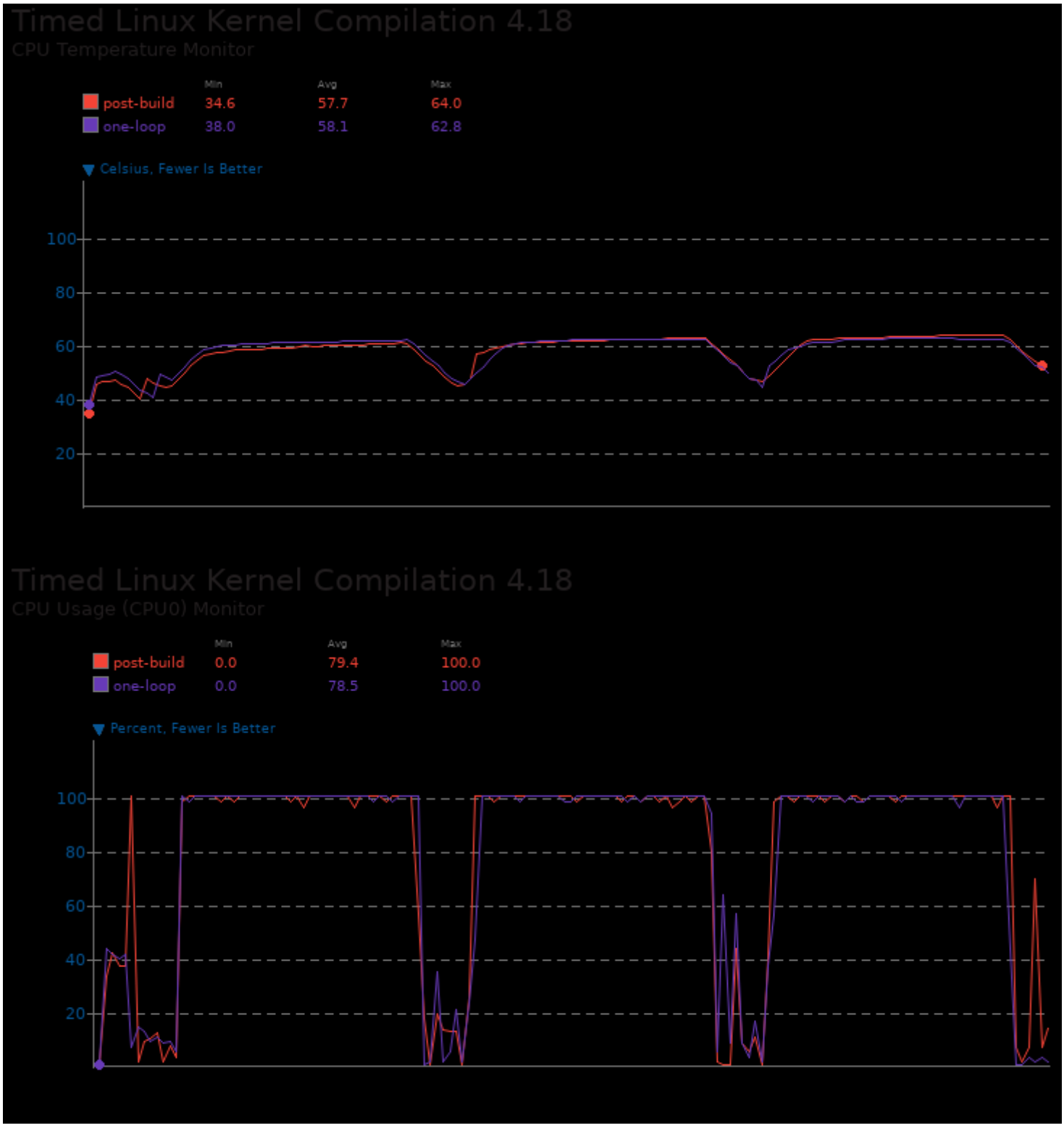
temps


Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU18) Monitor
Min
Avg
Max
post-build 1838 3321 4000
one-loop 1798 3311 4102
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU19) Monitor
Min
Avg
Max
post-build 1833 3313 4067
one-loop 1714 3247 3693
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

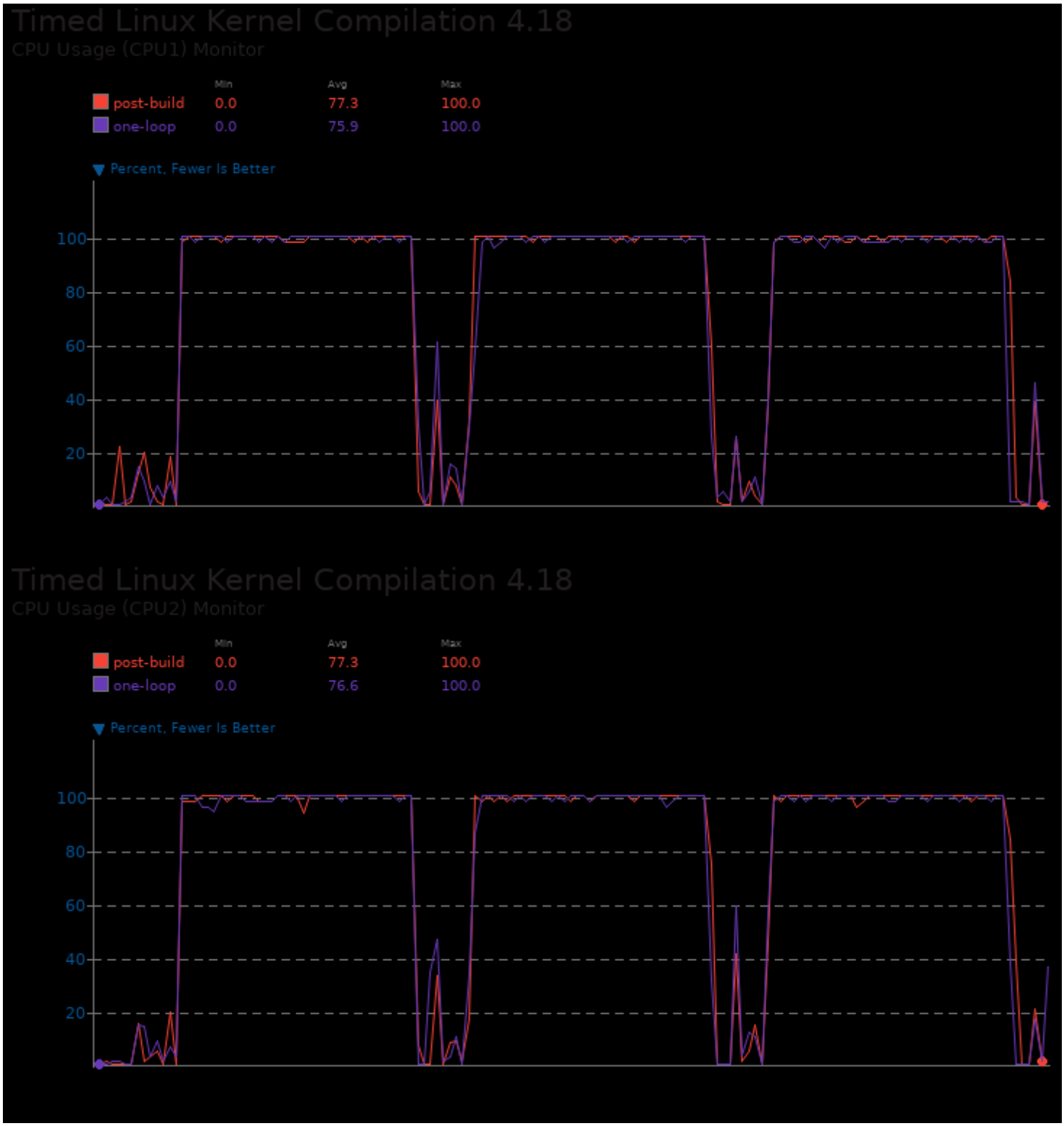

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU20) Monitor
Min
Avg
Max
post-build 1873 3280 3706
one-loop 1714 3288 4024
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU21) Monitor
Min
Avg
Max
post-build 1800 3284 3822
one-loop 1718 3295 3944
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000

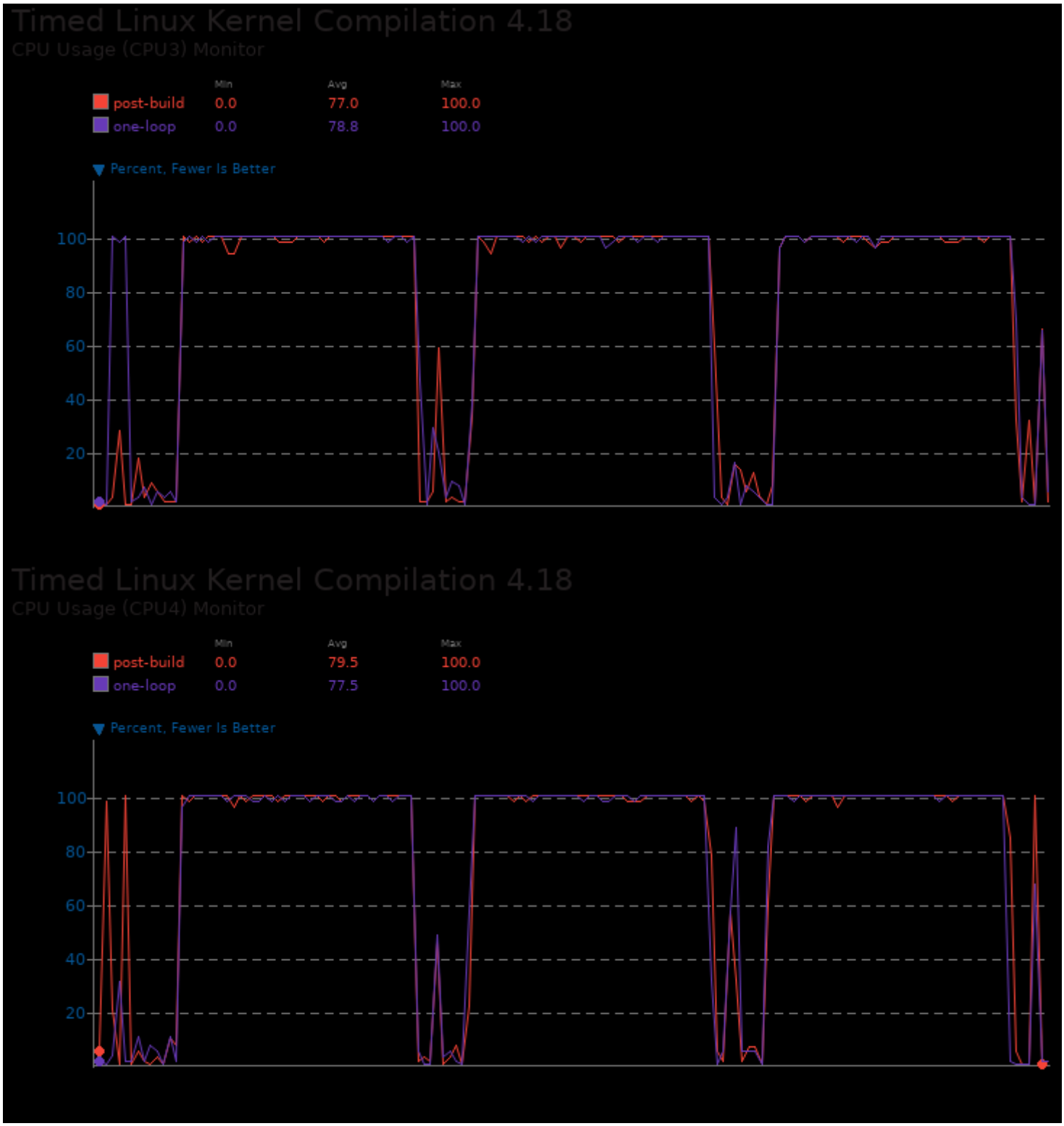

Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU22) Monitor
Min
Avg
Max
post-build 1850 3247 3800
one-loop 1716 3238 3693
Megahertz, Fewer Is Better
5000
4000
3000
2000
1000
Timed Linux Kernel Compilation 4.18
CPU Frequency (CPU23) Monitor
Min
Avg
Max
post-build 1796 3293 3929
one-loop 1716 3293 4007
Megahertz, Fewer Is Better
5500
4400
3300
2200
1100

temps

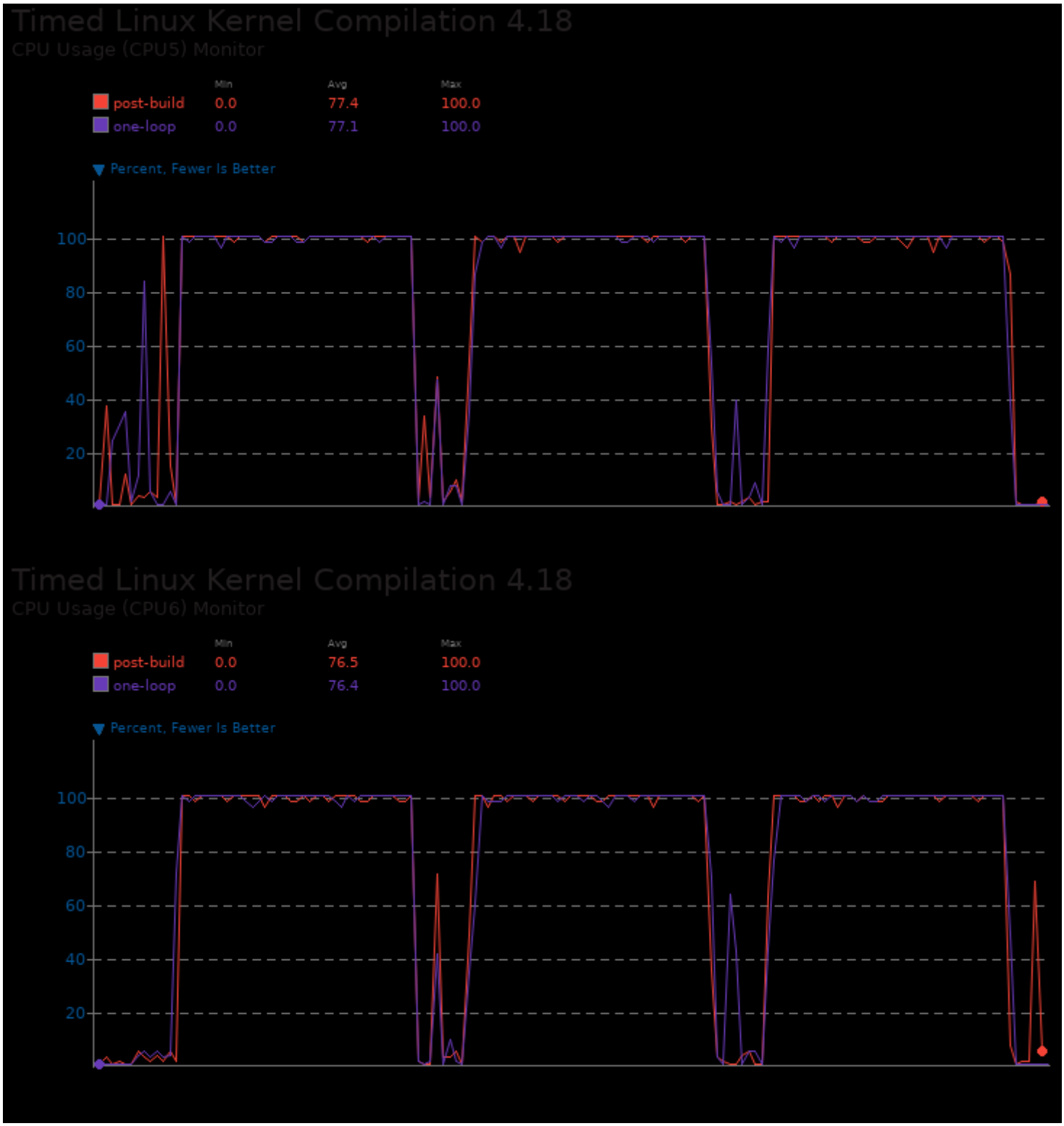

Timed Linux Kernel Compilation 4.18
CPU Temperature Monitor
Min
Avg
Max
post-build 34.6 57.7 64.0
one-loop 38.0 58.1 62.8
Celsius, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU0) Monitor
Min
Avg
Max
post-build 0.0 79.4 100.0
one-loop 0.0 78.5 100.0
Percent, Fewer Is Better
100
80
60
40
20

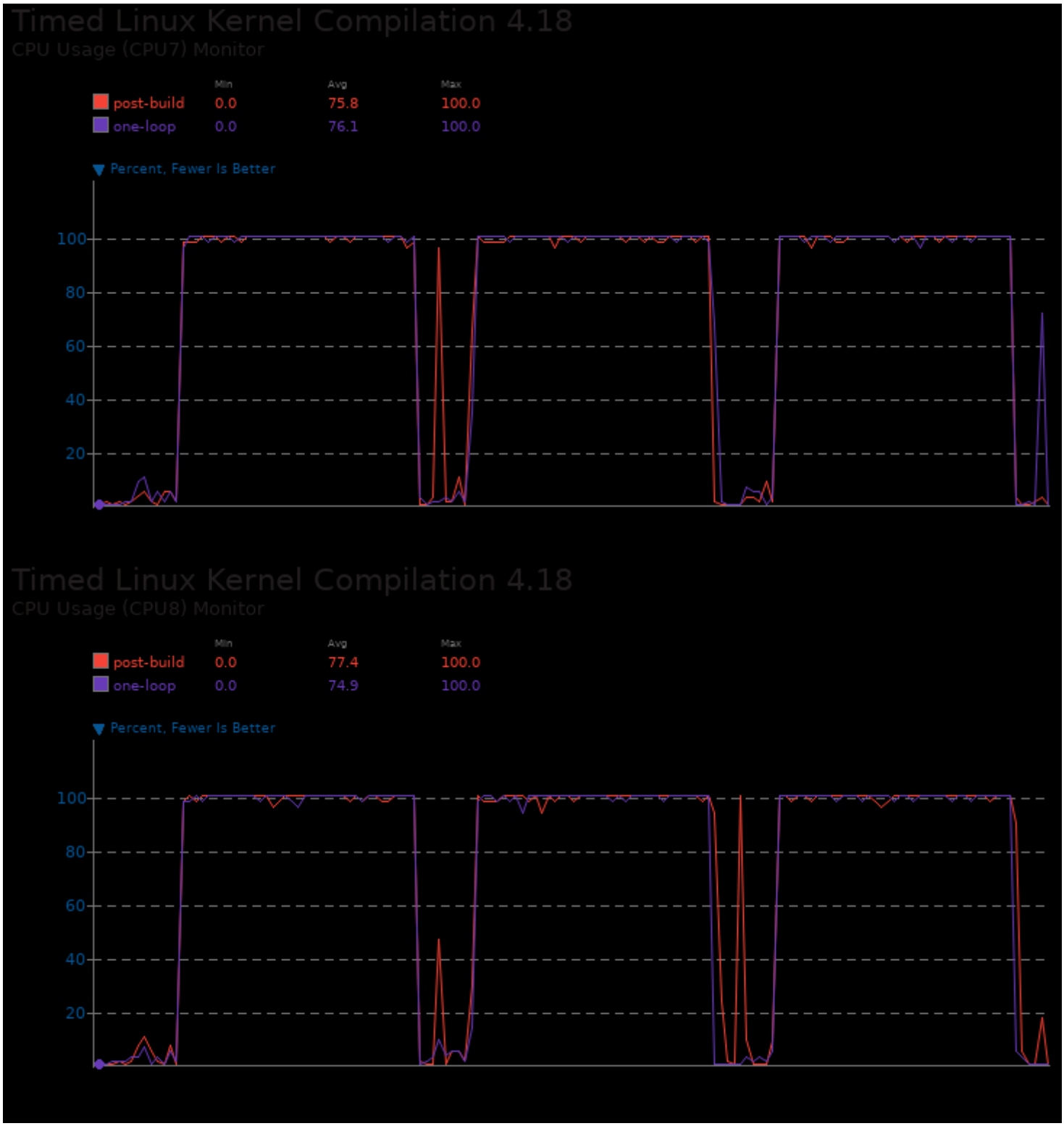
temps

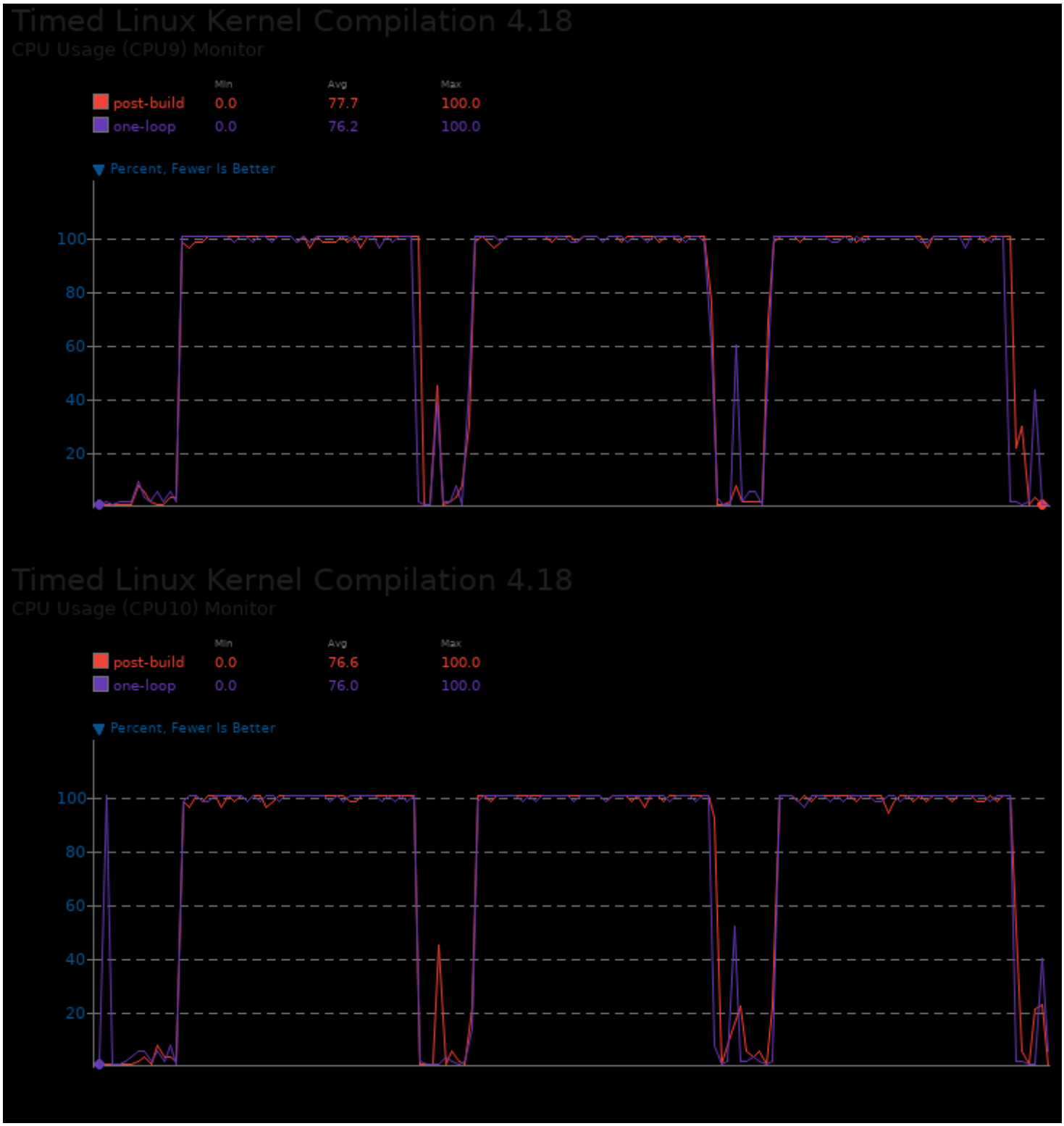

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU1) Monitor
Min
Avg
Max
post-build 0.0 77.3 100.0
one-loop 0.0 75.9 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU2) Monitor
Min
Avg
Max
post-build 0.0 77.3 100.0
one-loop 0.0 76.6 100.0
Percent, Fewer Is Better
100
80
60
40
20

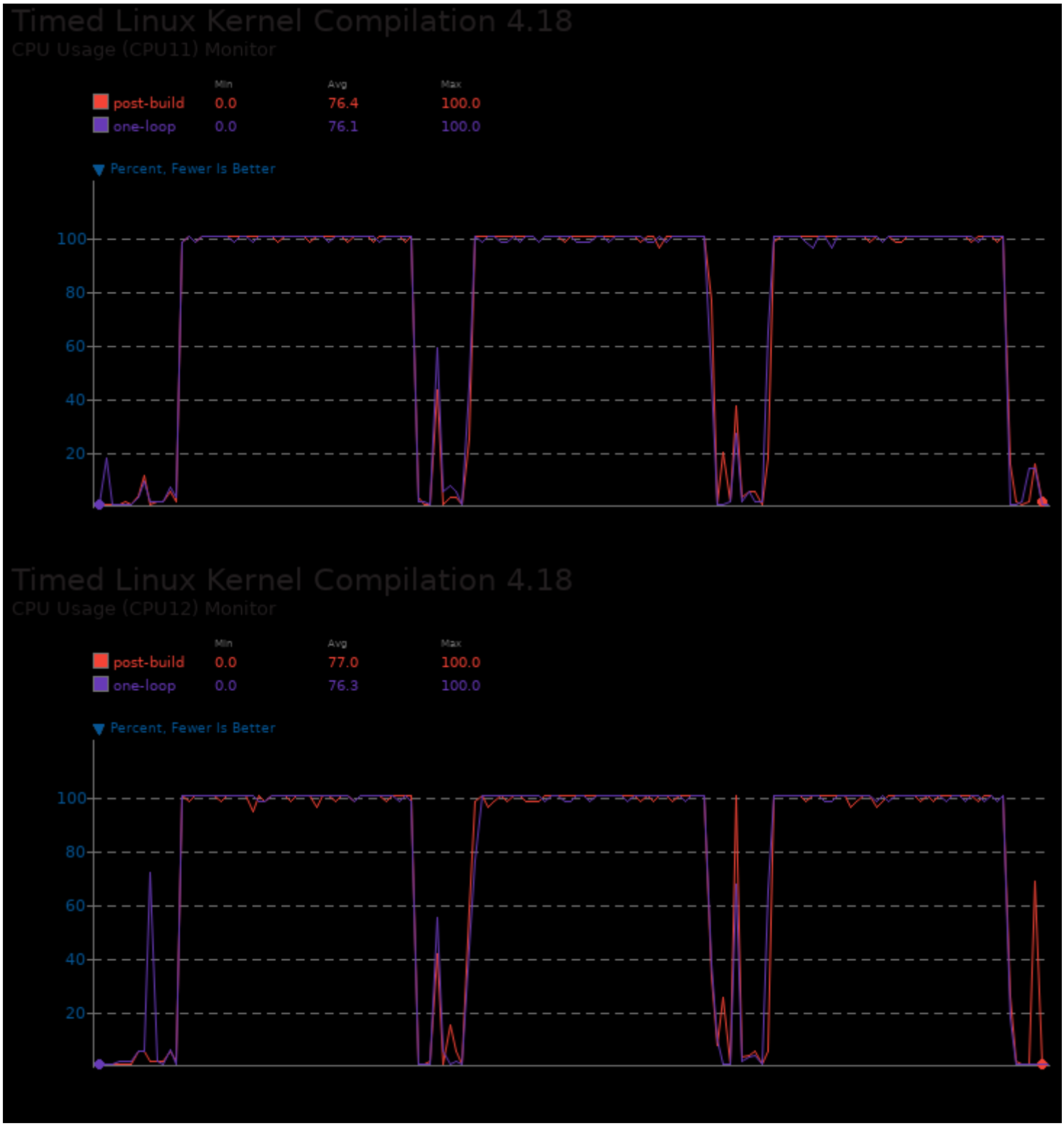

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU3) Monitor
Min
Avg
Max
post-build 0.0 77.0 100.0
one-loop 0.0 78.8 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU4) Monitor
Min
Avg
Max
post-build 0.0 79.5 100.0
one-loop 0.0 77.5 100.0
Percent, Fewer Is Better
100
80
60
40
20

temps

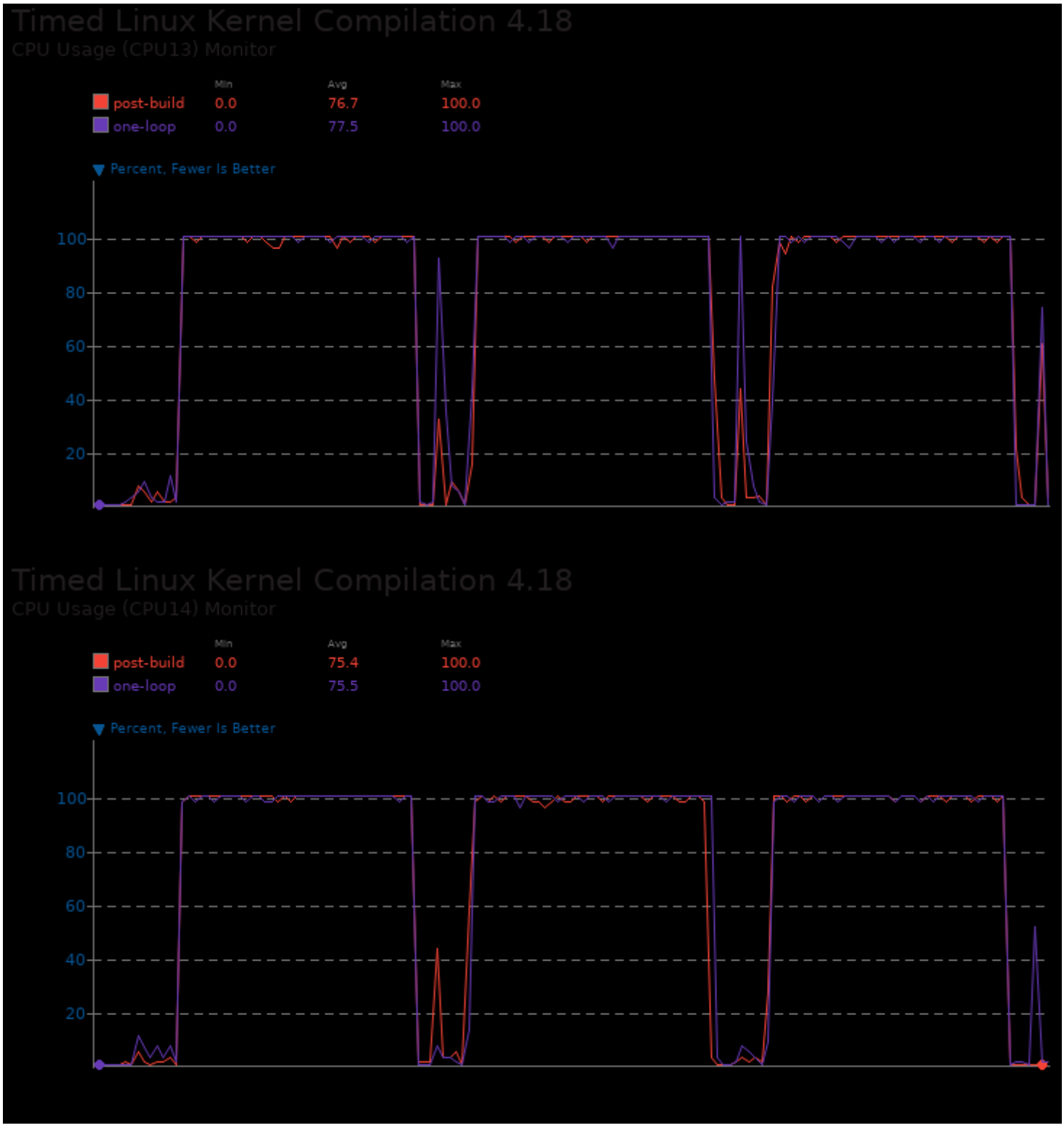

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU5) Monitor
Min
Avg
Max
post-build 0.0 77.4 100.0
one-loop 0.0 77.1 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU6) Monitor
Min
Avg
Max
post-build 0.0 76.5 100.0
one-loop 0.0 76.4 100.0
Percent, Fewer Is Better
100
80
60
40
20

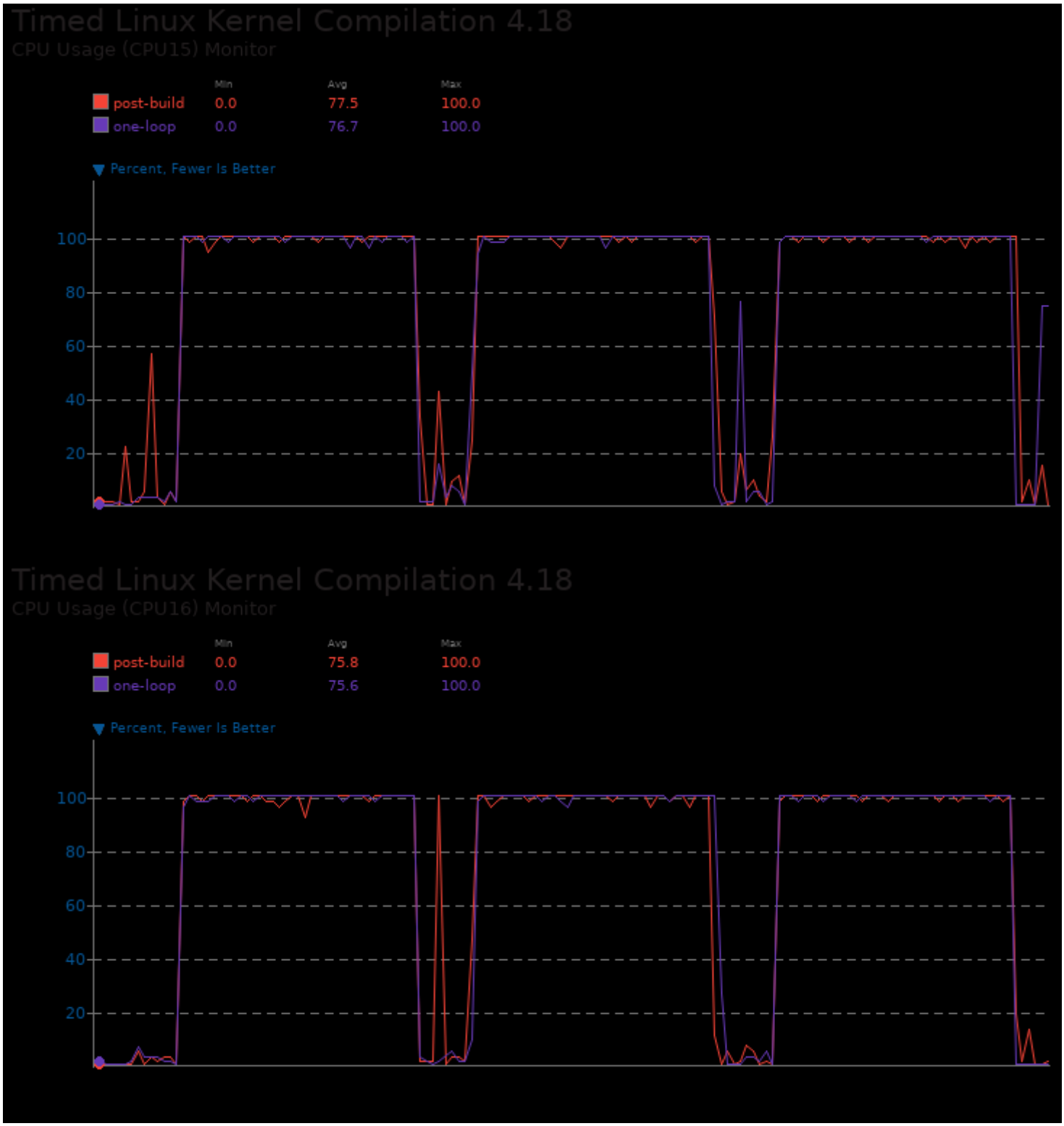

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU7) Monitor
Min
Avg
Max
post-build 0.0 75.8 100.0
one-loop 0.0 76.1 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU8) Monitor
Min
Avg
Max
post-build 0.0 77.4 100.0
one-loop 0.0 74.9 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 4.18
CPU Usage (CPU9) Monitor
Min
Avg
Max
post-build 0.0 77.7 100.0
one-loop 0.0 76.2 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU10) Monitor
Min
Avg
Max
post-build 0.0 76.6 100.0
one-loop 0.0 76.0 100.0
Percent, Fewer Is Better
100
80
60
40
20

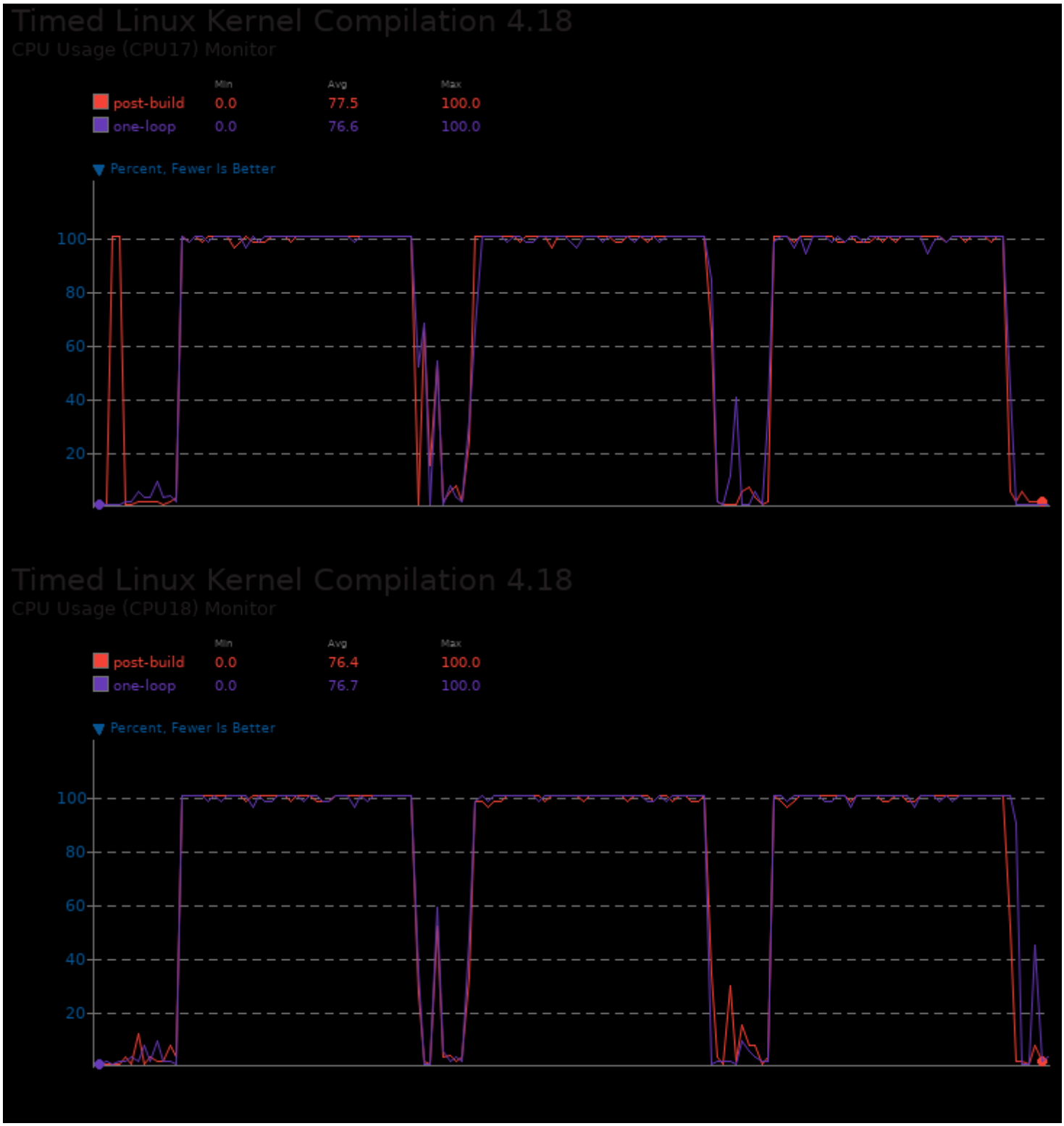

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU11) Monitor
Min
Avg
Max
post-build 0.0 76.4 100.0
one-loop 0.0 76.1 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU12) Monitor
Min
Avg
Max
post-build 0.0 77.0 100.0
one-loop 0.0 76.3 100.0
Percent, Fewer Is Better
100
80
60
40
20

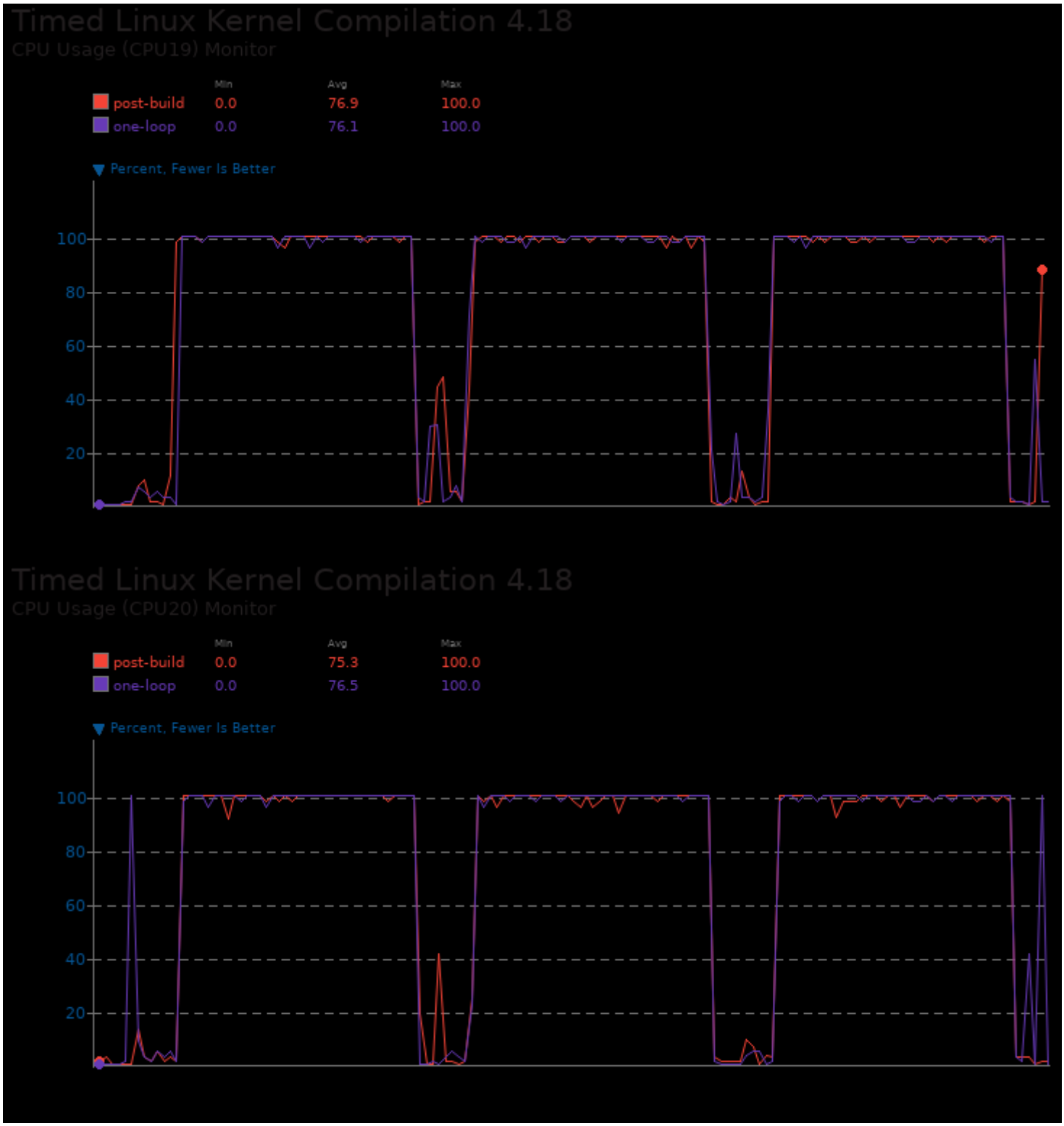
temps

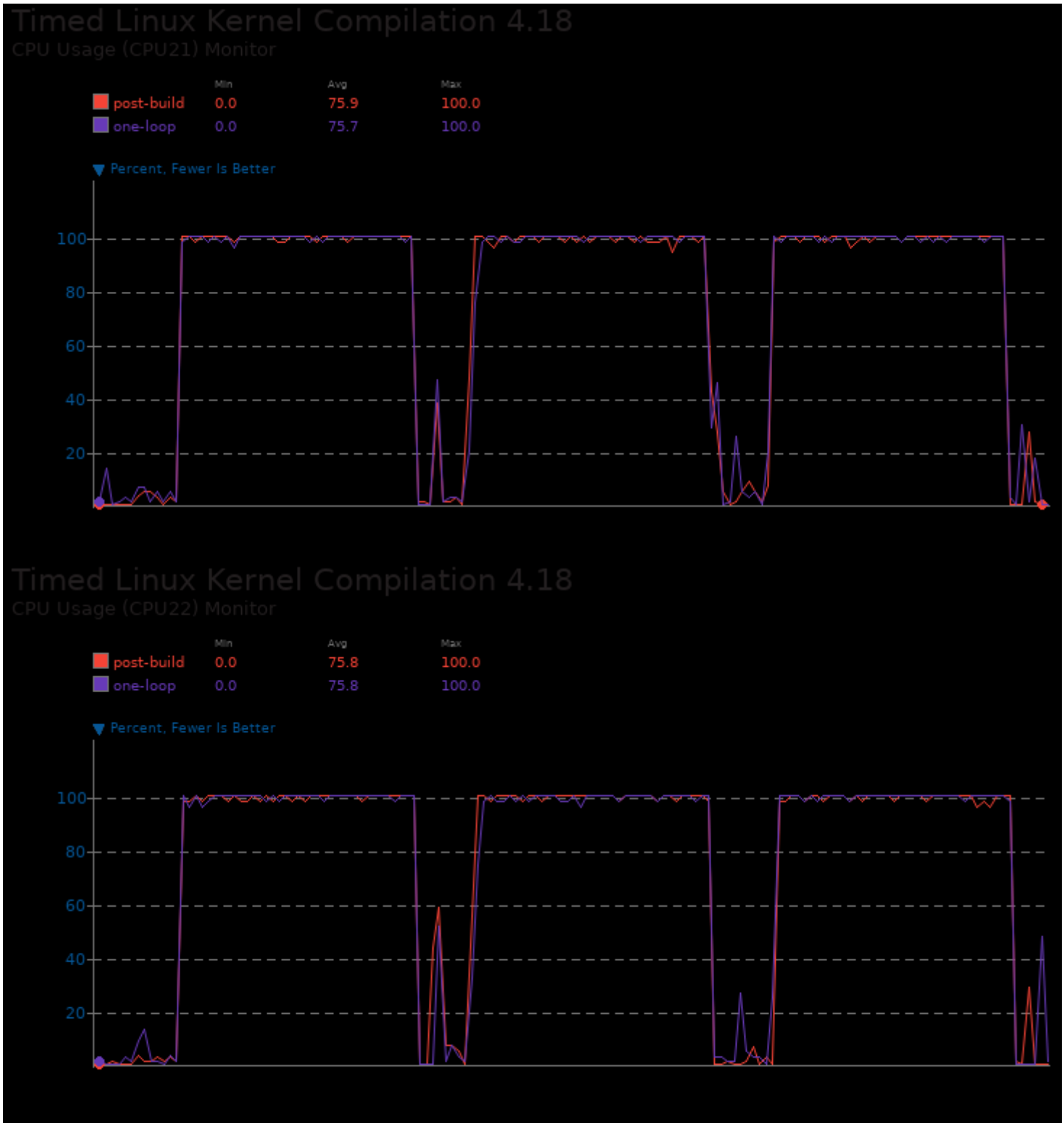

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU13) Monitor
Min
Avg
Max
post-build 0.0 76.7 100.0
one-loop 0.0 77.5 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU14) Monitor
Min
Avg
Max
post-build 0.0 75.4 100.0
one-loop 0.0 75.5 100.0
Percent, Fewer Is Better
100
80
60
40
20

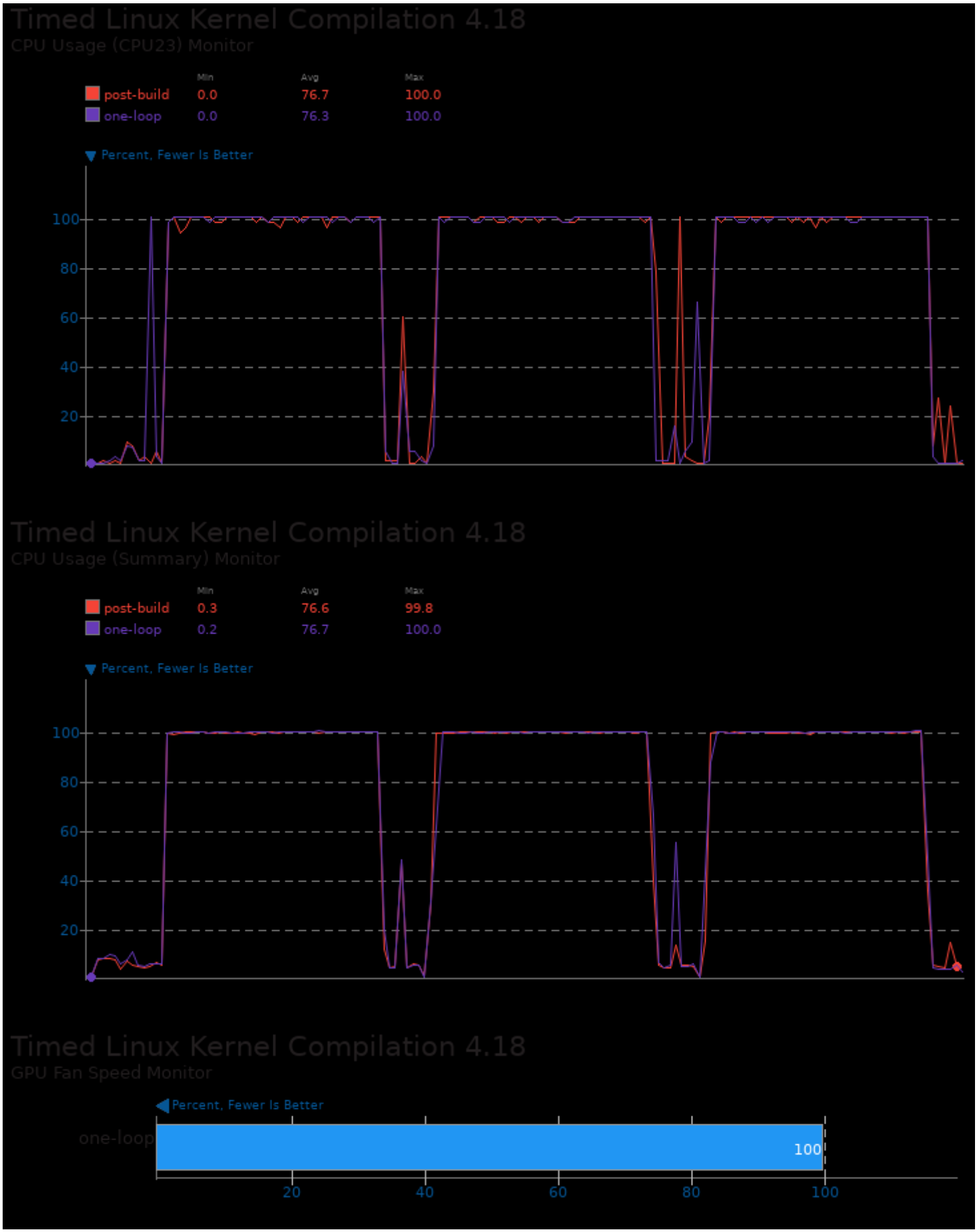

Timed Linux Kernel Compilation 4.18
CPU Usage (CPU15) Monitor
Min
Avg
Max
post-build 0.0 77.5 100.0
one-loop 0.0 76.7 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU16) Monitor
Min
Avg
Max
post-build 0.0 75.8 100.0
one-loop 0.0 75.6 100.0
Percent, Fewer Is Better
100
80
60
40
20

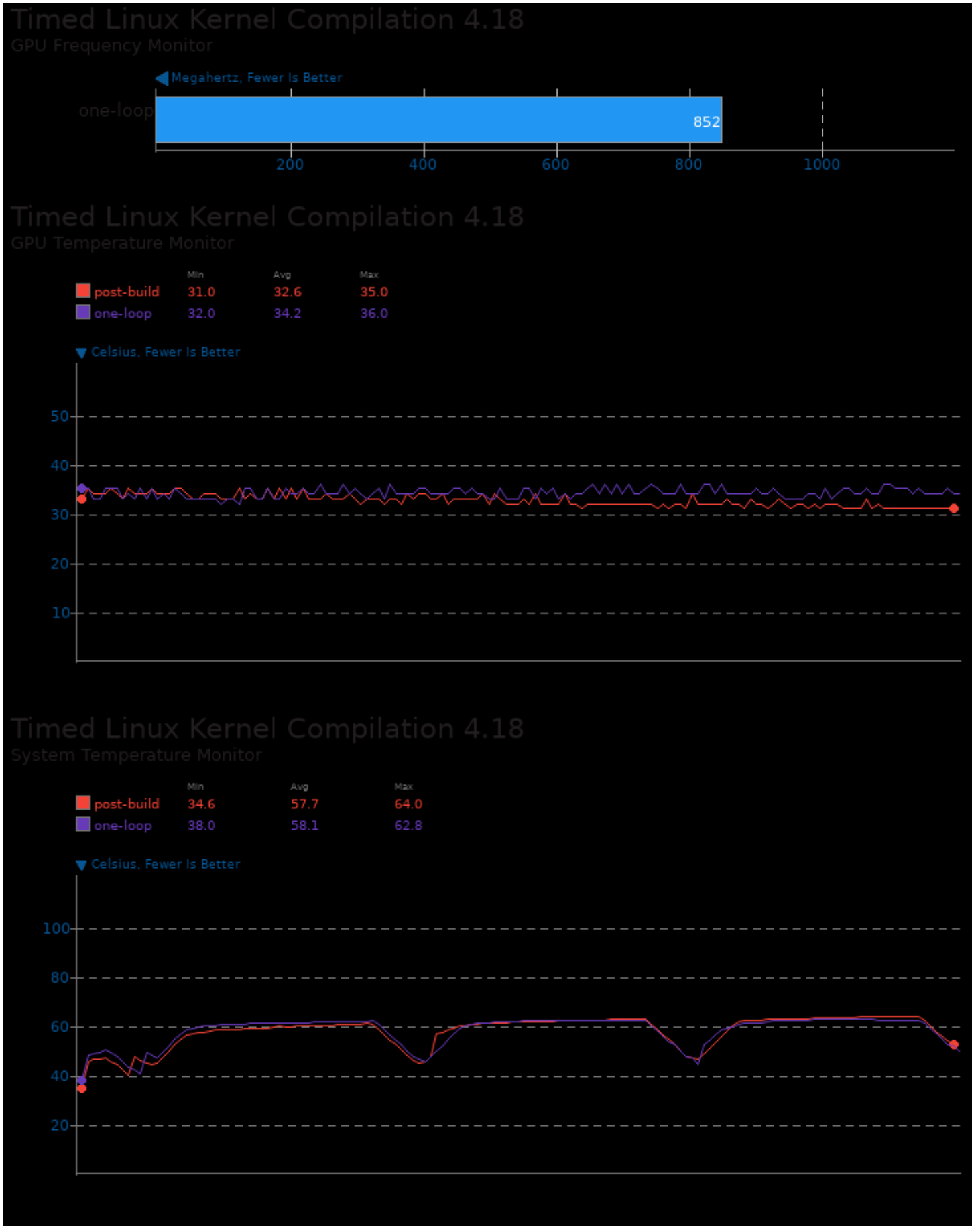
temps


Timed Linux Kernel Compilation 4.18
CPU Usage (CPU17) Monitor
Min
Avg
Max
post-build 0.0 77.5 100.0
one-loop 0.0 76.6 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU18) Monitor
Min
Avg
Max
post-build 0.0 76.4 100.0
one-loop 0.0 76.7 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 4.18
CPU Usage (CPU19) Monitor
Min
Avg
Max
post-build 0.0 76.9 100.0
one-loop 0.0 76.1 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU20) Monitor
Min
Avg
Max
post-build 0.0 75.3 100.0
one-loop 0.0 76.5 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 4.18
CPU Usage (CPU21) Monitor
Min
Avg
Max
post-build 0.0 75.9 100.0
one-loop 0.0 75.7 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (CPU22) Monitor
Min
Avg
Max
post-build 0.0 75.8 100.0
one-loop 0.0 75.8 100.0
Percent, Fewer Is Better
100
80
60
40
20


Timed Linux Kernel Compilation 4.18
CPU Usage (CPU23) Monitor
Min
Avg
Max
post-build 0.0 76.7 100.0
one-loop 0.0 76.3 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
CPU Usage (Summary) Monitor
Min
Avg
Max
post-build 0.3 76.6 99.8
one-loop 0.2 76.7 100.0
Percent, Fewer Is Better
100
80
60
40
20
Timed Linux Kernel Compilation 4.18
GPU Fan Speed Monitor
Percent, Fewer Is Better
one-loop
100
20
40
60
80
100


Timed Linux Kernel Compilation 4.18
GPU Frequency Monitor
Megahertz, Fewer Is Better
one-loop
852
200
400
600
800
1000
Timed Linux Kernel Compilation 4.18
GPU Temperature Monitor
Min
Avg
Max
post-build
31.0
32.6
35.0
one-loop
32.0
34.2
36.0
Celsius, Fewer Is Better
50
40
30
20
10
Timed Linux Kernel Compilation 4.18
System Temperature Monitor
Min
Avg
Max
post-build
34.6
57.7
64.0
one-loop
38.0
58.1
62.8
Celsius, Fewer Is Better
100
80
60
40
20

temps

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:18.