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stress-4650g-35tdp

AMD Ryzen 5 PRO 4650G testing with a BIOSTAR X470NH (5.17 BIOS) and AMD Radeon R9 290/390 256MB on Arch rolling via the Phoronix Test Suite.

Test Systems:

4650g-35tdp

Processor: AMD Ryzen 5 PRO 4650G @ 3.70GHz (6 Cores / 12 Threads), Motherboard: BIOSTAR X470NH (5.17 BIOS), Chipset: AMD Renoir Root Complex, Memory: 16GB, Disk: 500GB Seagate ST9500423AS + 512GB Intenso SSD SATA, Graphics: AMD Radeon R9 290/390 256MB (975/1250MHz), Audio: AMD Hawaii HDMI Audio, Monitor: AAA, Network: Realtek RTL8111/8168/8411

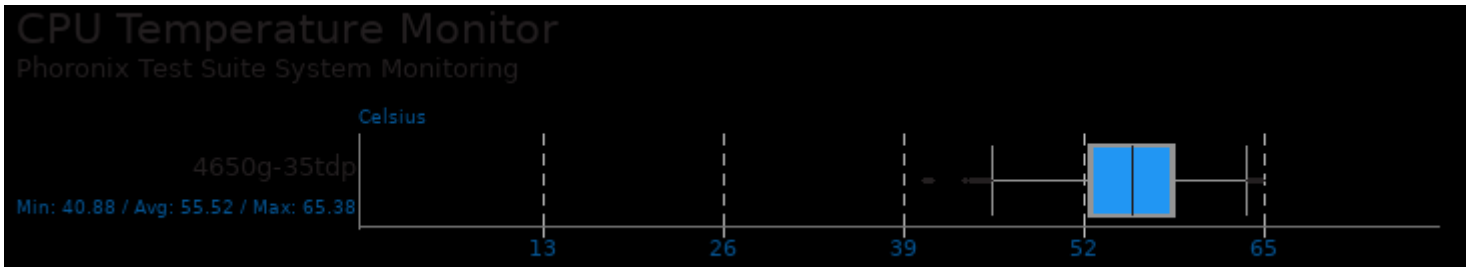
OS: Arch rolling, Kernel: 5.14.9-arch2-1 (x86_64), Display Server: X Server 1.20.12, OpenGL: 4.6 Mesa 21.2.3 (LLVM 12.0.1), OpenCL: OpenCL 1.1 Mesa 21.2.3, Vulkan: 1.2.182, Compiler: GCC 11.1.0 + Clang 12.0.1 + LLVM 12.0.1, File-System: ext4, Screen Resolution: 1920x1080

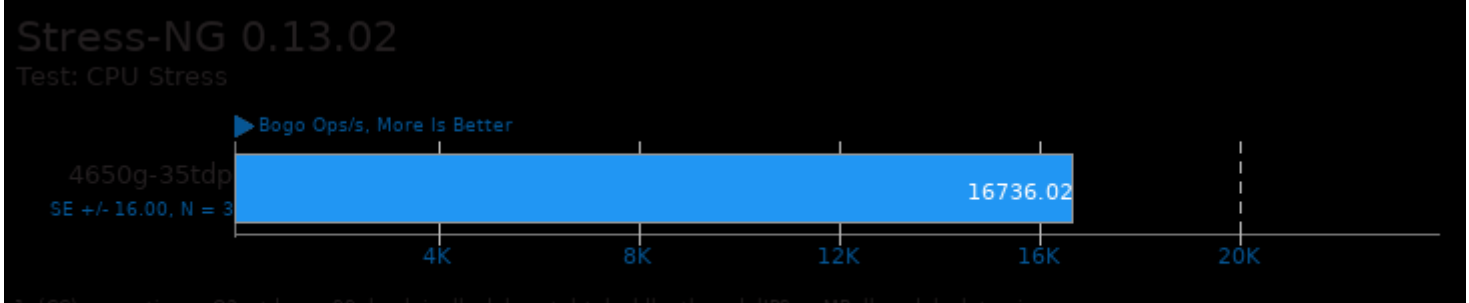
Kernel Notes: radeon.cik_support=0 amdgpu.cik_support=1 amdgpu.runpm=1 amdgpu.aspm=1 amdgpu.ppfeaturemask=0xffffffff - Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release

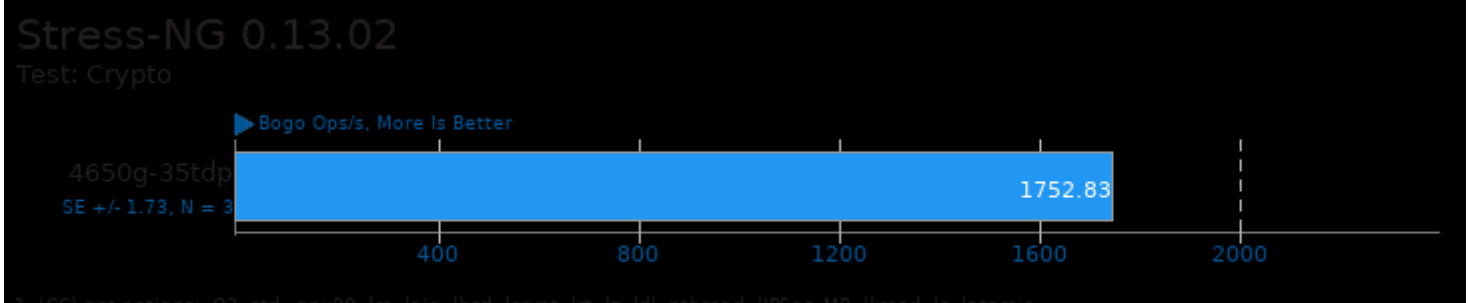
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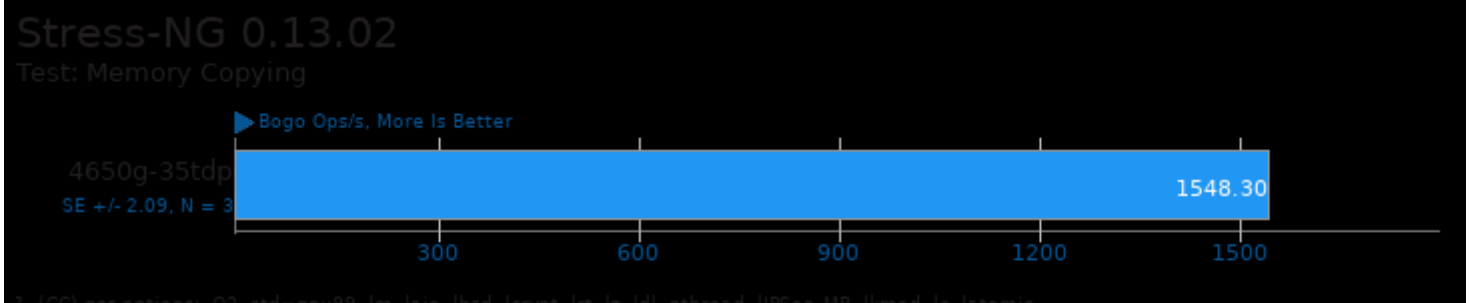
--enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8600106
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

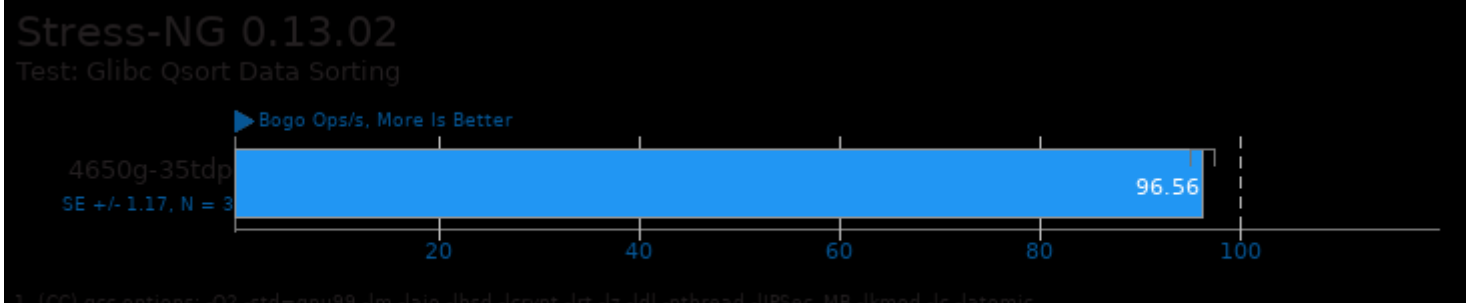
	4650g-35tdp
Stress-NG - CPU Stress (Bogo Ops/s)	16736
Standard Deviation	0.2%
Stress-NG - Crypto (Bogo Ops/s)	1753
Standard Deviation	0.2%
Stress-NG - Memory Copying (Bogo Ops/s)	1548
Standard Deviation	0.2%
Stress-NG - G.Q.D.S (Bogo Ops/s)	96.56
Standard Deviation	2.1%
Stress-NG - G.C.S.F (Bogo Ops/s)	388935
Standard Deviation	0.5%
Stress-NG - Vector Math (Bogo Ops/s)	32582
Standard Deviation	0.2%
Stress-NG - Matrix Math (Bogo Ops/s)	27127
Standard Deviation	1.7%
Stress-NG - Forking (Bogo Ops/s)	20973
Standard Deviation	0.3%
Stress-NG - S.V.M.P (Bogo Ops/s)	6127501
Standard Deviation	0.2%
Stress-NG - Semaphores (Bogo Ops/s)	747696
Standard Deviation	0.1%
Stress-NG - Socket Activity (Bogo Ops/s)	2331
Standard Deviation	2.5%
Stress-NG - Context Switching (Bogo Ops/s)	2632562
Standard Deviation	1.4%
Stress-NG - Atomic (Bogo Ops/s)	437429
Standard Deviation	0.2%
Stress-NG - CPU Cache (Bogo Ops/s)	607.43
Standard Deviation	0.8%
Stress-NG - Malloc (Bogo Ops/s)	37098102
Standard Deviation	0.4%
Stress-NG - MEMFD (Bogo Ops/s)	557.82
Standard Deviation	0.3%
Stress-NG - MMAP (Bogo Ops/s)	113.80
Standard Deviation	0.4%
Stress-NG - NUMA (Bogo Ops/s)	259.39
Standard Deviation	0.1%
Stress-NG - SENDFILE (Bogo Ops/s)	119438
Standard Deviation	0.3%
Stress-NG - IO_uring (Bogo Ops/s)	57860
Standard Deviation	23.4%


CPU Temperature Monitor
Phoronix Test Suite System Monitoring
Celsius
4650g-35tdp
Min: 40.88 / Avg: 55.52 / Max: 65.38
13
26
39
52
65

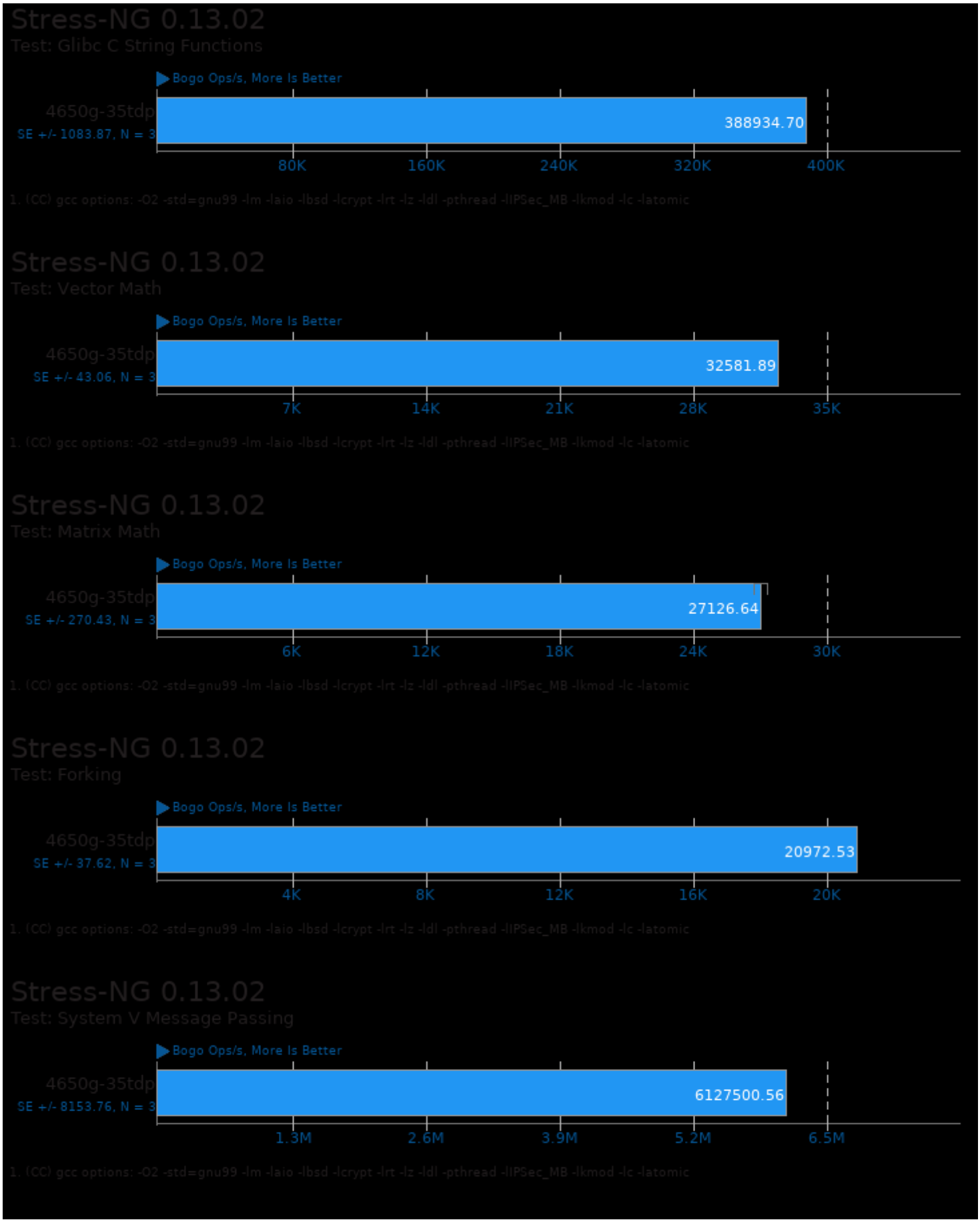

Stress-NG 0.13.02
Test: CPU Stress
Bogo Ops/s, More Is Better
4650g-35tdp
SE +/- 16.00, N = 3
16736.02
4K
8K
12K
16K
20K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic


Stress-NG 0.13.02
Test: Crypto
Bogo Ops/s, More Is Better
4650g-35tdp
SE +/- 1.73, N = 3
1752.83
400
800
1200
1600
2000
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic

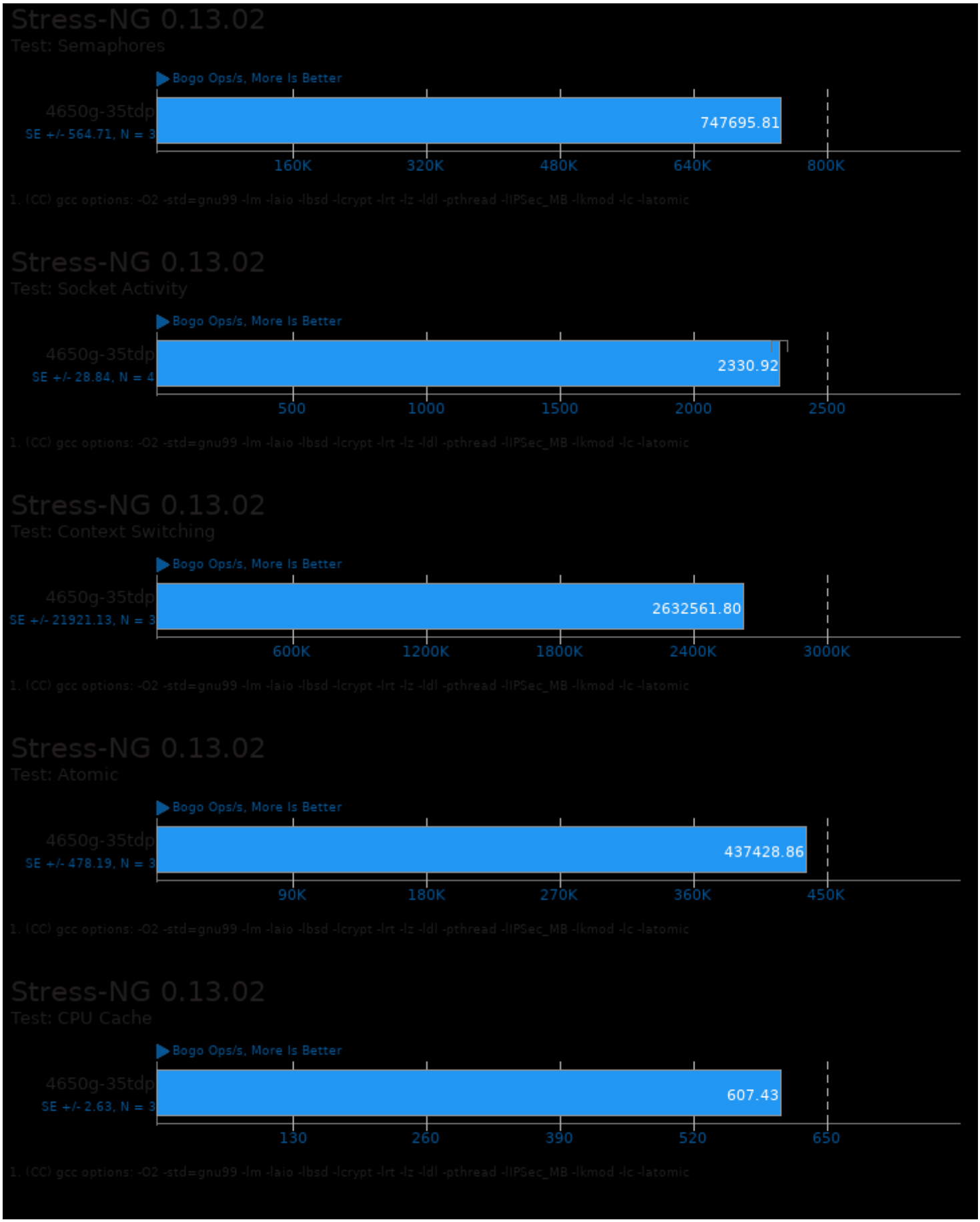

Stress-NG 0.13.02
Test: Memory Copying
Bogo Ops/s, More Is Better
4650g-35tdp
SE +/- 2.09, N = 3
1548.30
300
600
900
1200
1500
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic


Stress-NG 0.13.02
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
4650g-35tdp
SE +/- 1.17, N = 3
96.56
20
40
60
80
100
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic

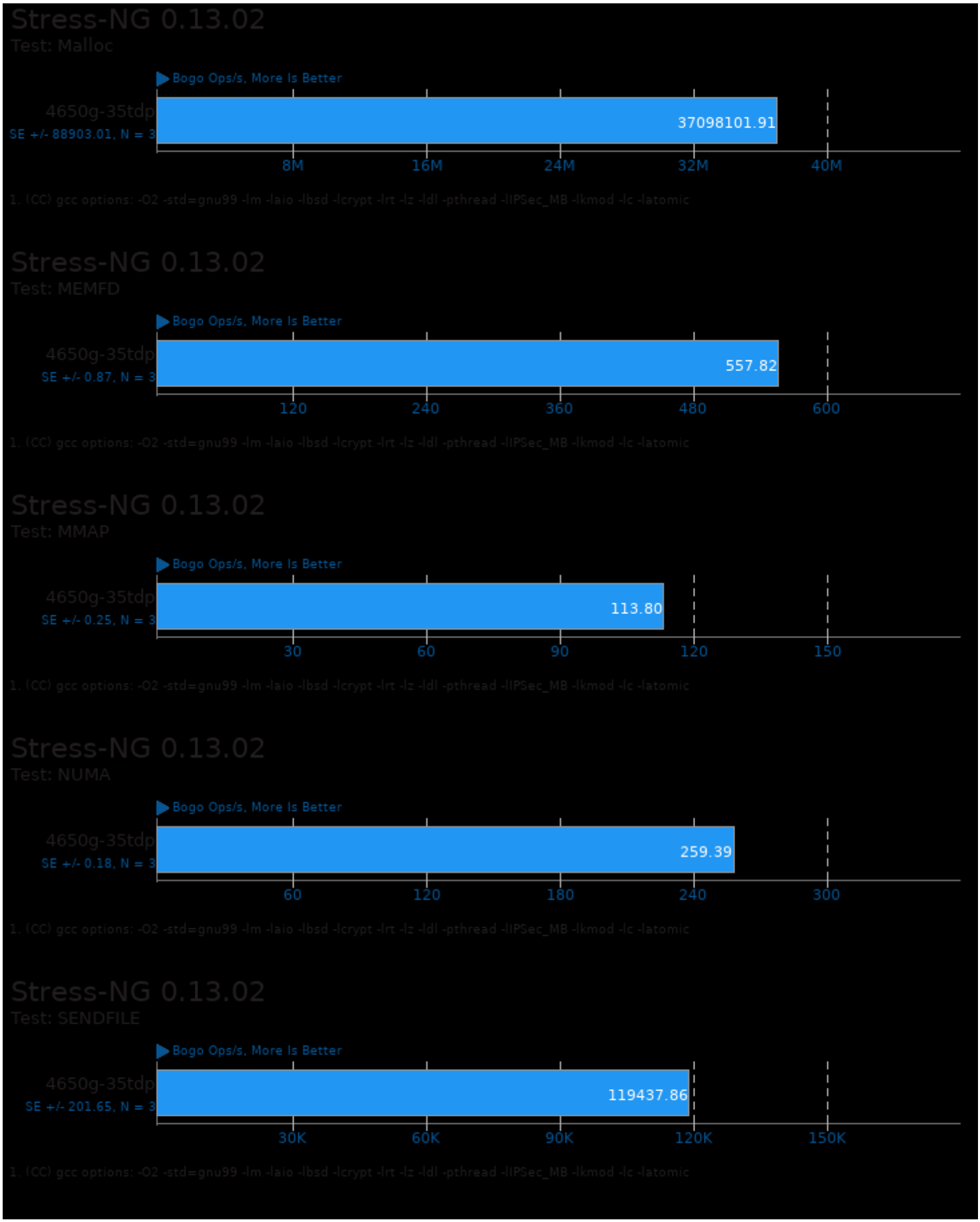
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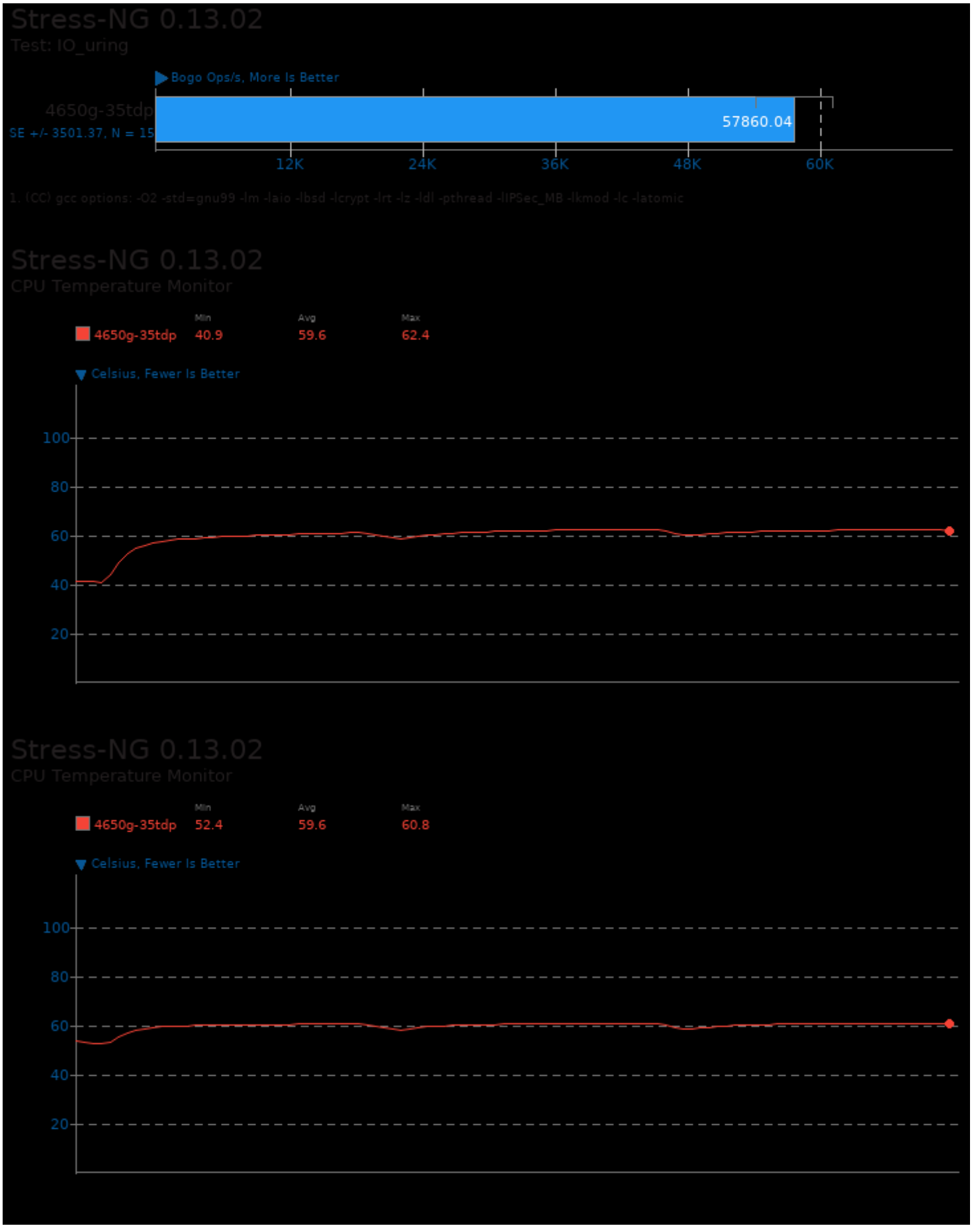
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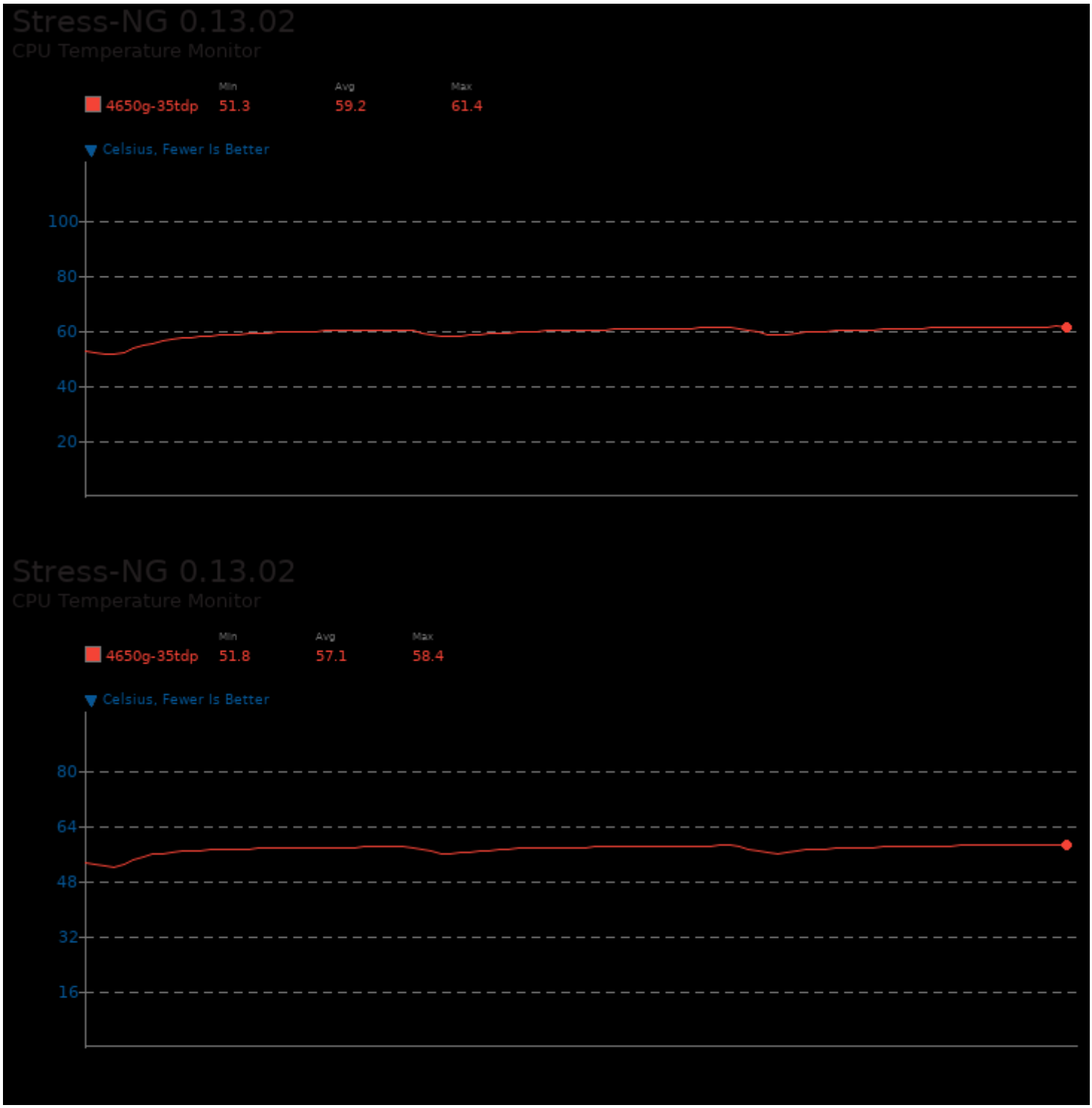
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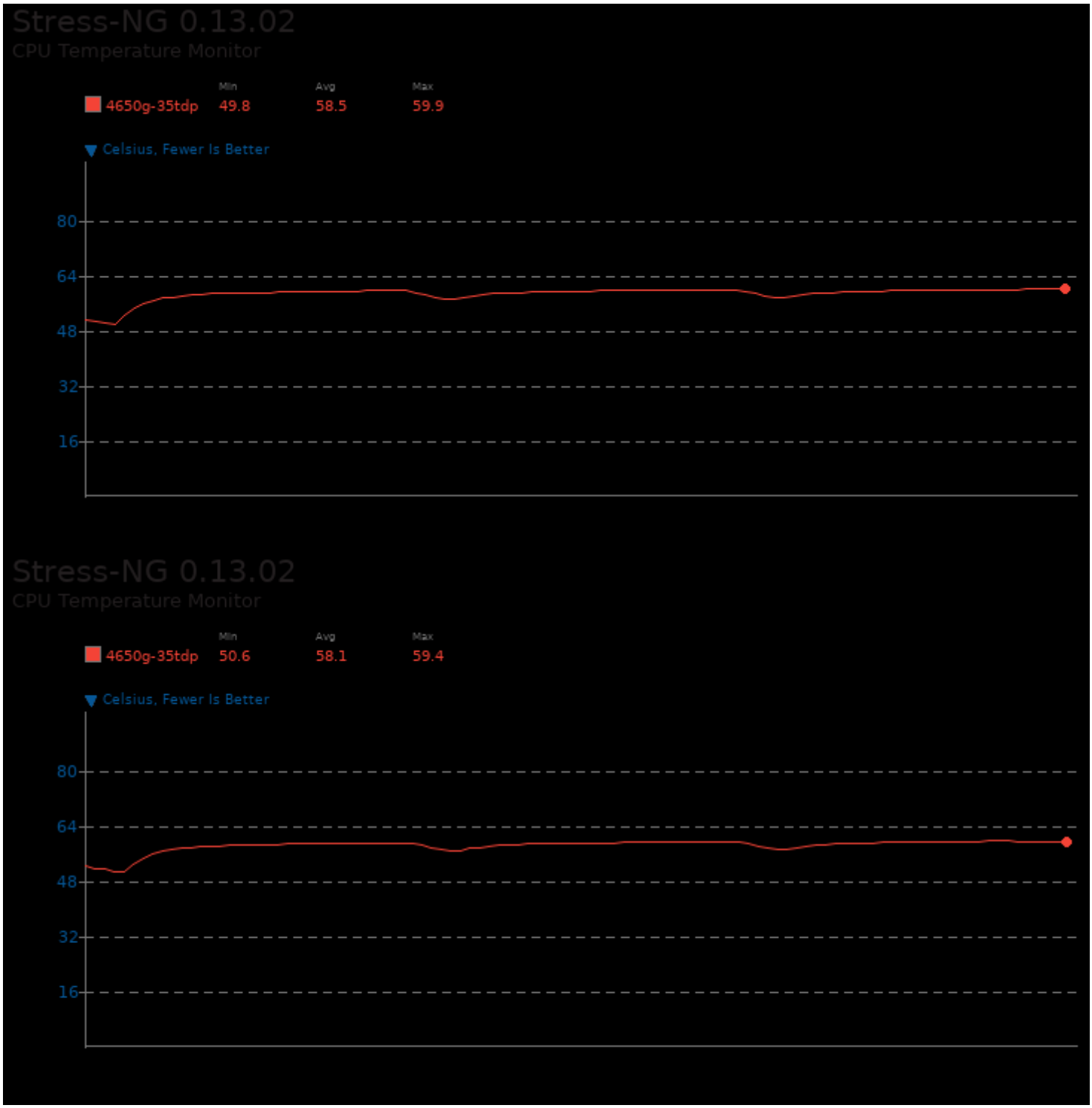
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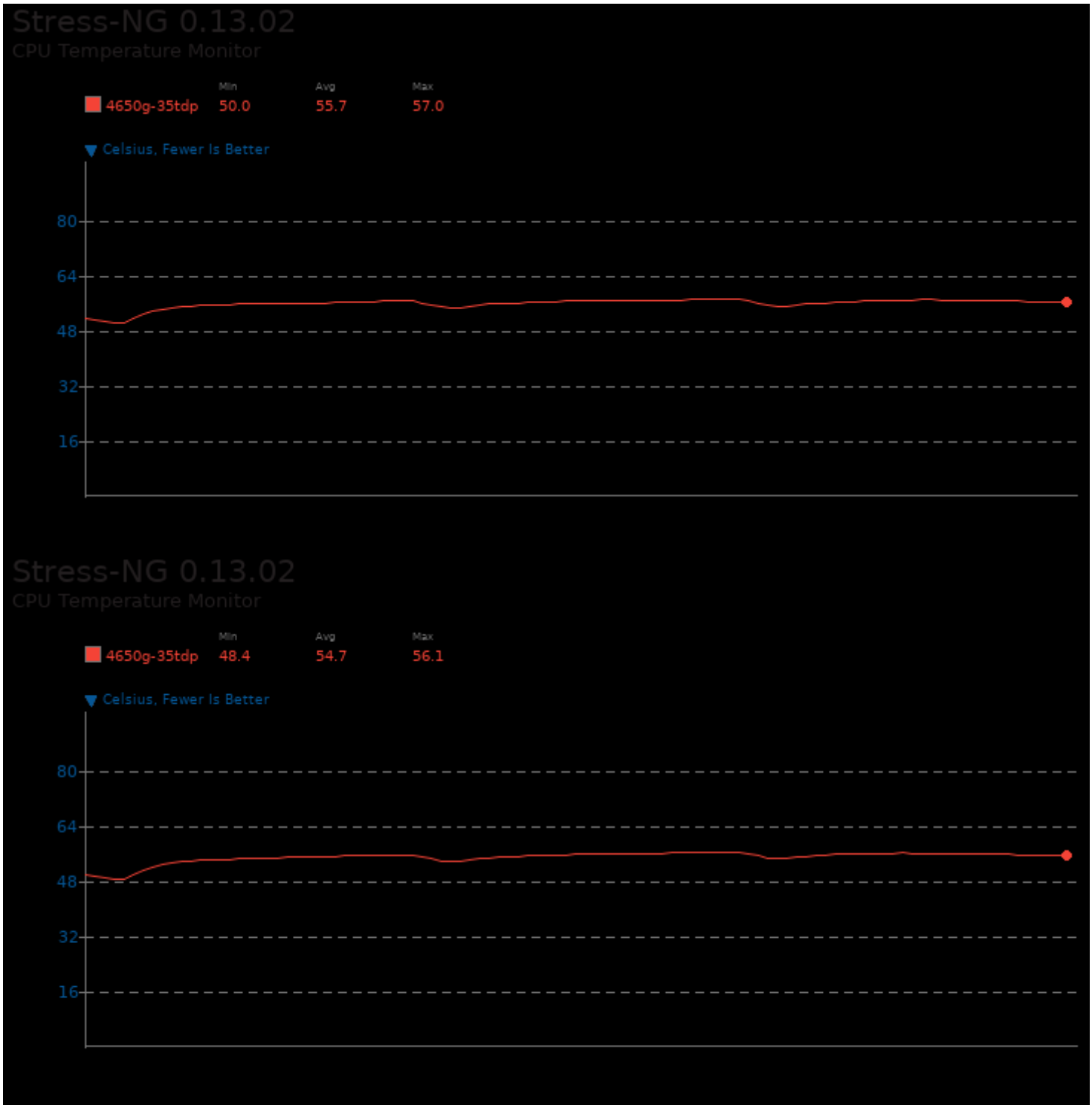
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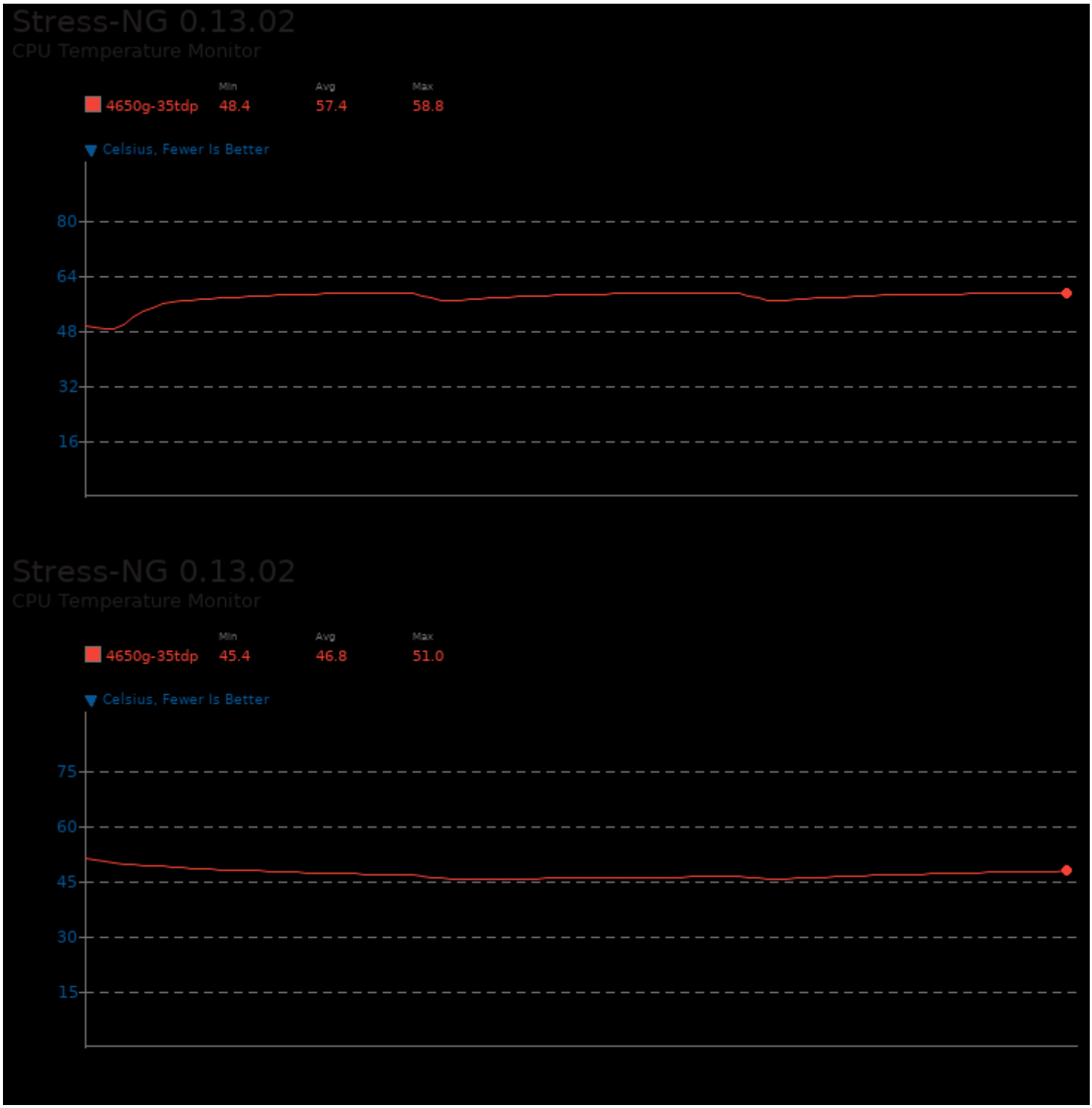
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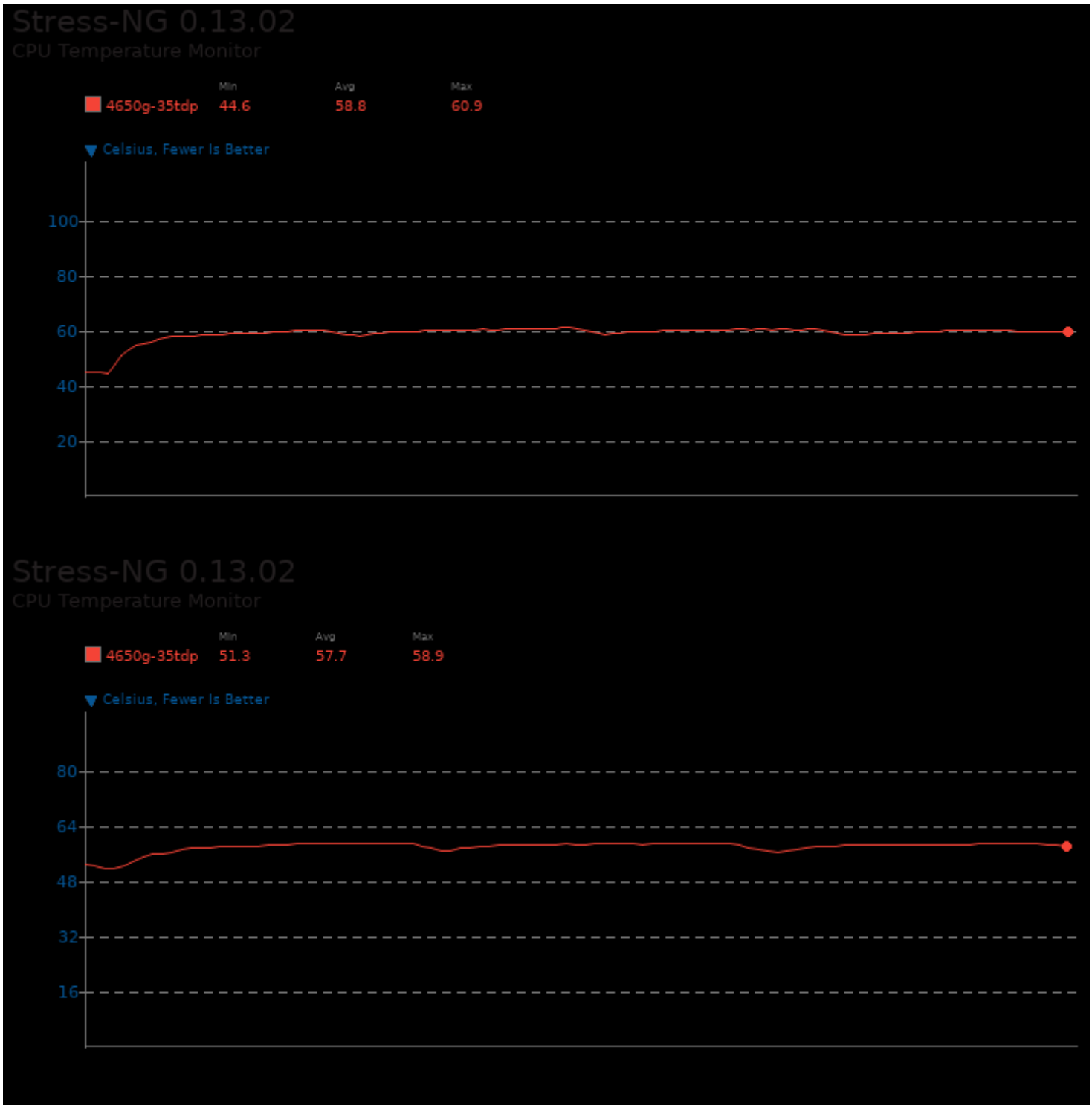
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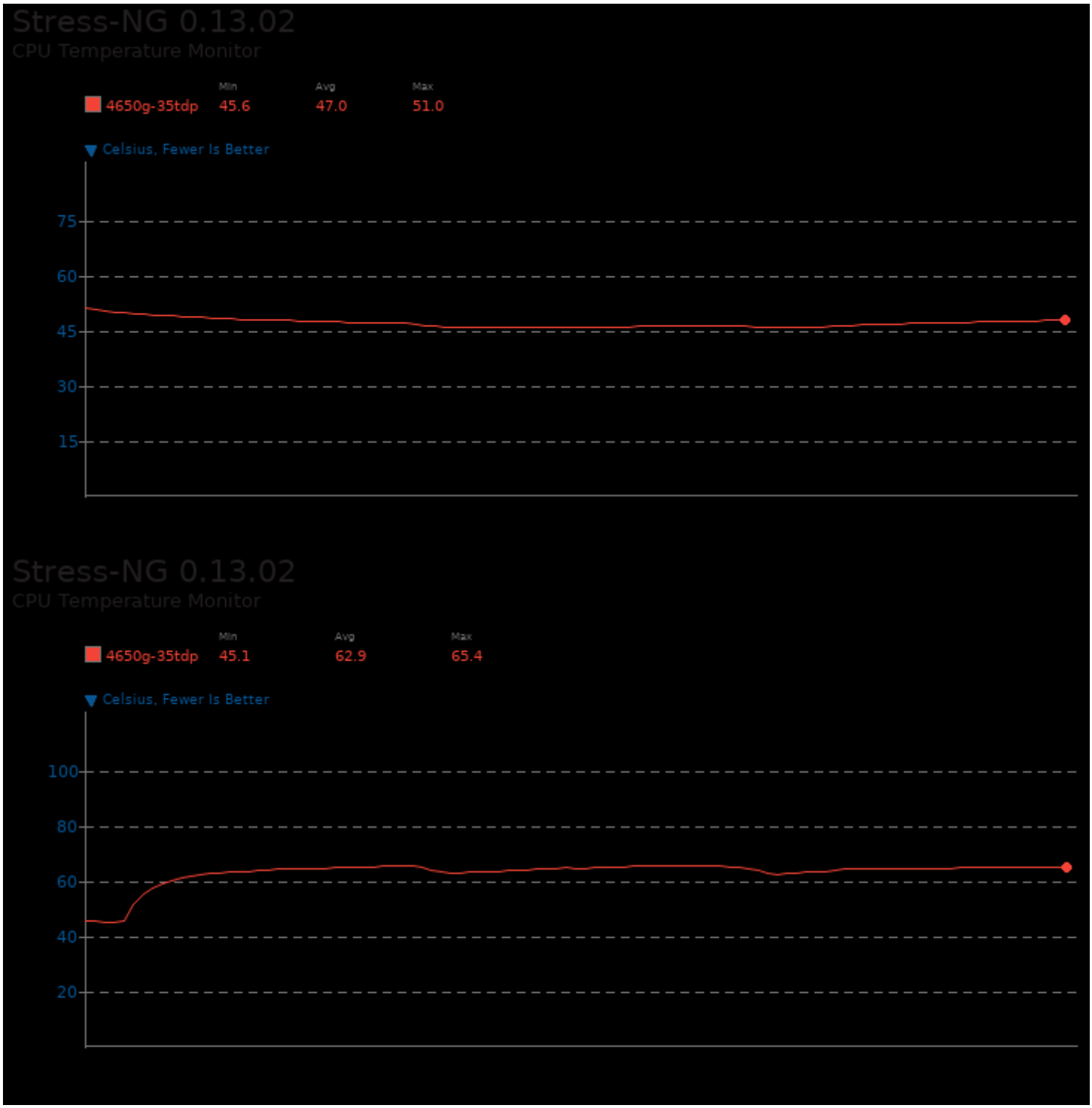
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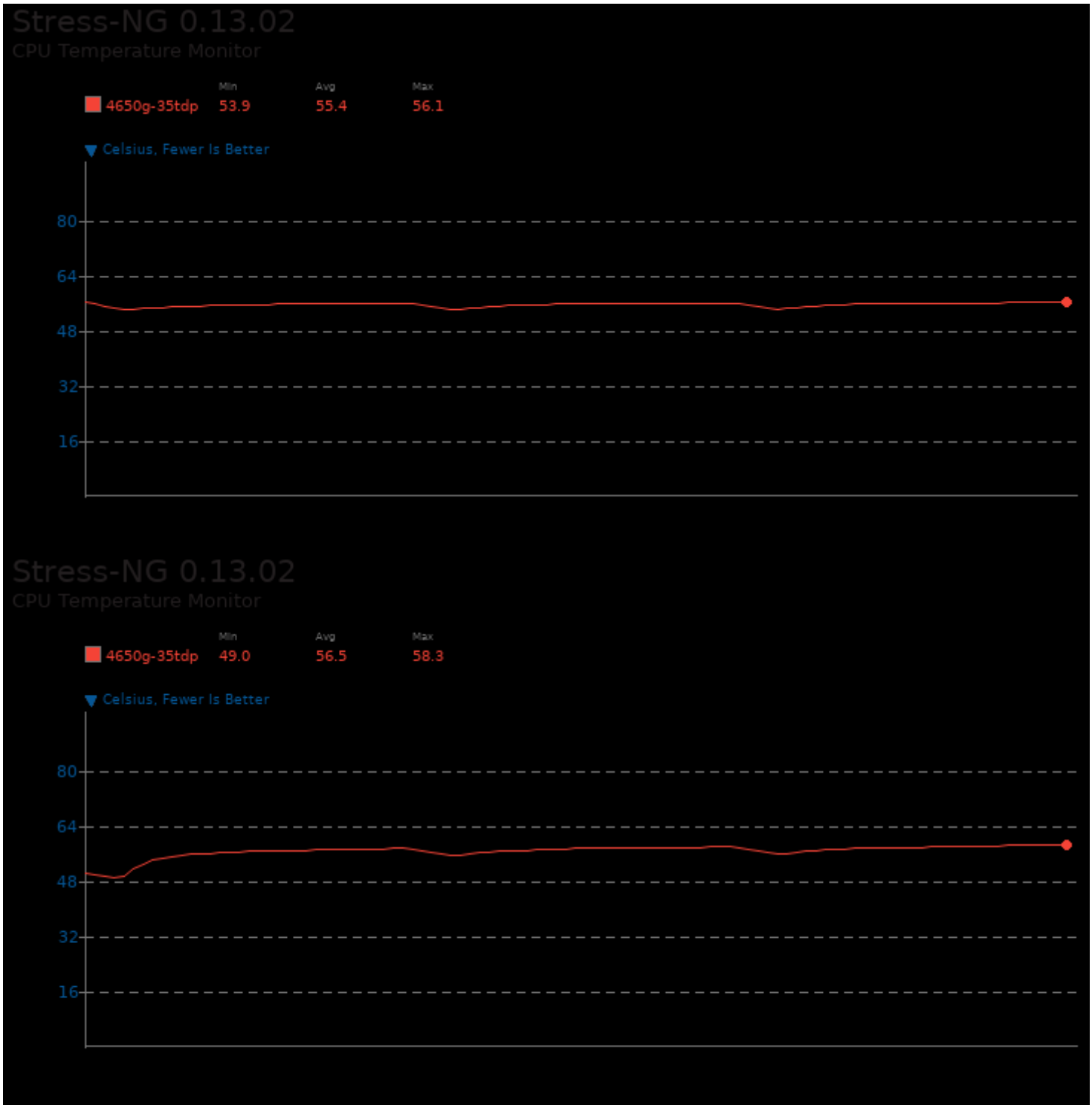
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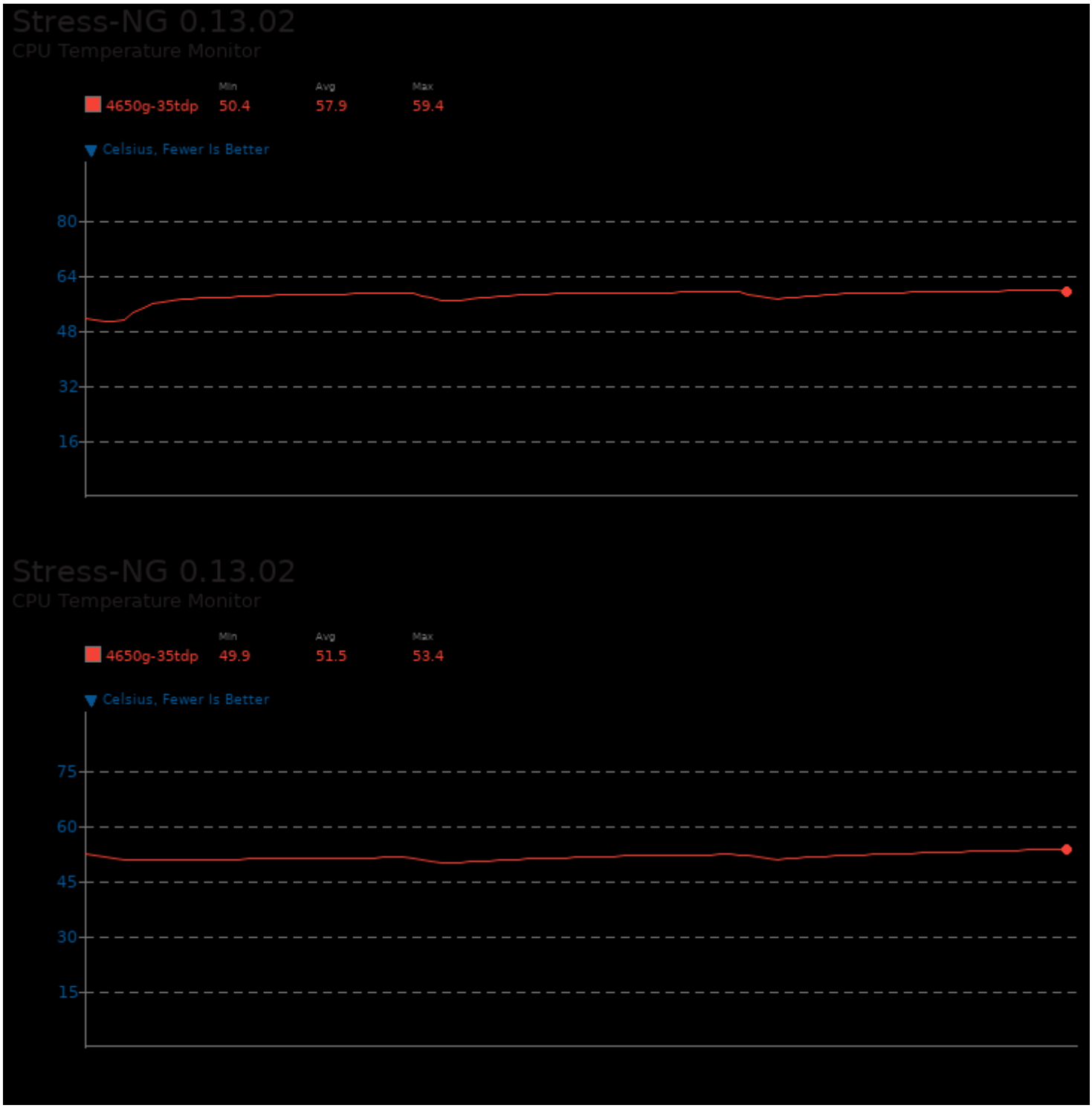
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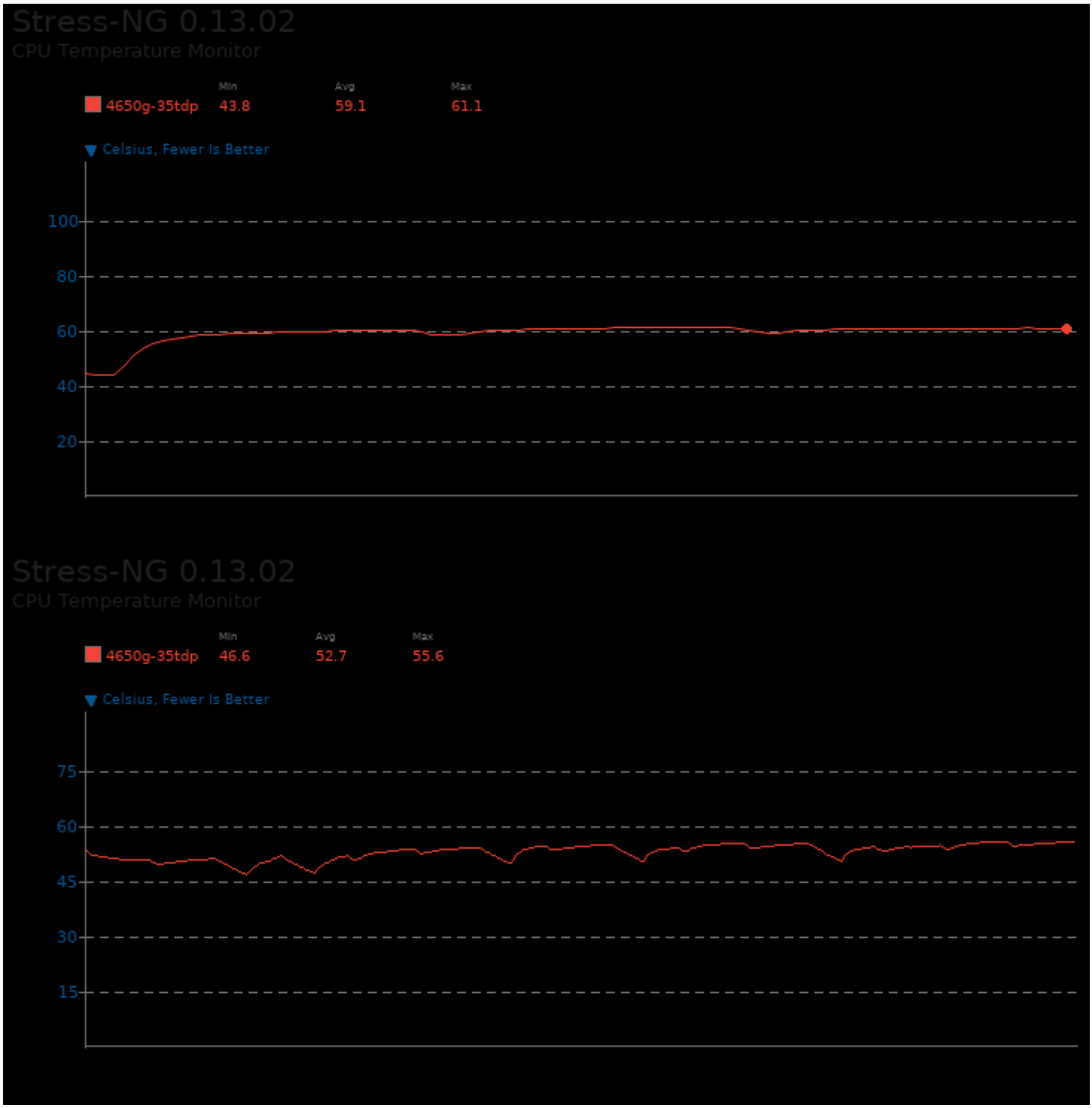
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