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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

# stress-4650g-35tdp

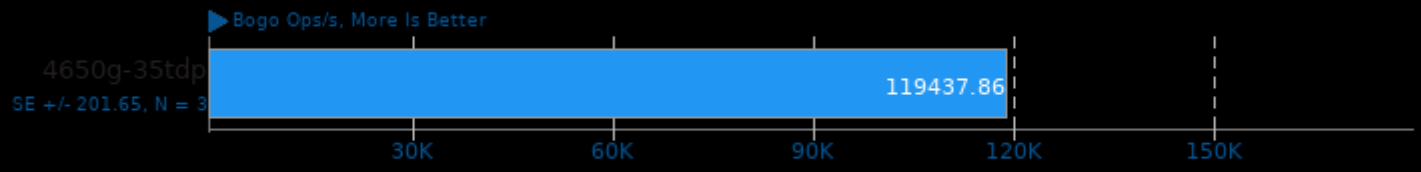
--enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --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 - SENDFILE (Bogo Ops/s)** | 119438 |
| **Standard Deviation** | 0.3% |
| **Stress-NG - NUMA (Bogo Ops/s)** | 259.39 |
| **Standard Deviation** | 0.1% |
| **Stress-NG - MMAP (Bogo Ops/s)** | 113.80 |
| **Standard Deviation** | 0.4% |
| **Stress-NG - MEMFD (Bogo Ops/s)** | 557.82 |
| **Standard Deviation** | 0.3% |
| **Stress-NG - Malloc (Bogo Ops/s)** | 37098102 |
| **Standard Deviation** | 0.4% |
| **Stress-NG - CPU Cache (Bogo Ops/s)** | 607.43 |
| **Standard Deviation** | 0.8% |
| **Stress-NG - Atomic (Bogo Ops/s)** | 437429 |
| **Standard Deviation** | 0.2% |
| **Stress-NG - Context Switching (Bogo Ops/s)** | 2632562 |
| **Standard Deviation** | 1.4% |
| **Stress-NG - Socket Activity (Bogo Ops/s)** | 2331 |
| **Standard Deviation** | 2.5% |
| **Stress-NG - Semaphores (Bogo Ops/s)** | 747696 |
| **Standard Deviation** | 0.1% |
| **Stress-NG - S.V.M.P (Bogo Ops/s)** | 6127501 |
| **Standard Deviation** | 0.2% |
| **Stress-NG - Forking (Bogo Ops/s)** | 20973 |
| **Standard Deviation** | 0.3% |
| **Stress-NG - Matrix Math (Bogo Ops/s)** | 27127 |
| **Standard Deviation** | 1.7% |
| **Stress-NG - Vector Math (Bogo Ops/s)** | 32582 |
| **Standard Deviation** | 0.2% |
| **Stress-NG - G.C.S.F (Bogo Ops/s)** | 388935 |
| **Standard Deviation** | 0.5% |
| **Stress-NG - G.Q.D.S (Bogo Ops/s)** | 96.56 |
| **Standard Deviation** | 2.1% |
| **Stress-NG - Memory Copying (Bogo Ops/s)** | 1548 |
| **Standard Deviation** | 0.2% |
| **Stress-NG - Crypto (Bogo Ops/s)** | 1753 |
| **Standard Deviation** | 0.2% |
| **Stress-NG - CPU Stress (Bogo Ops/s)** | 16736 |
| **Standard Deviation** | 0.2% |
| **Stress-NG - IO_uring (Bogo Ops/s)** | 57860 |
| **Standard Deviation** | 23.4% |

# stress-4650g-35tdp

## Stress-NG 0.13.02

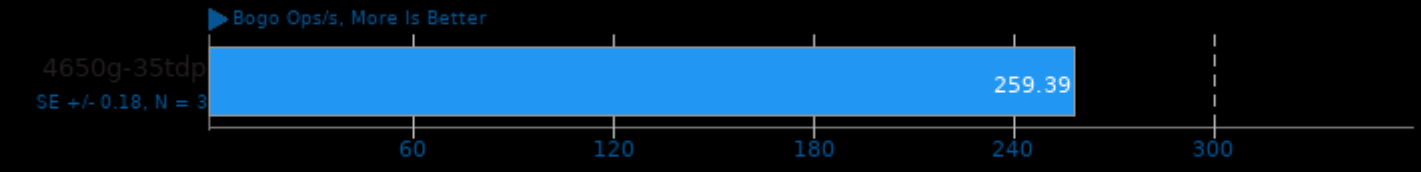
Test: SENDFILE




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: NUMA




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

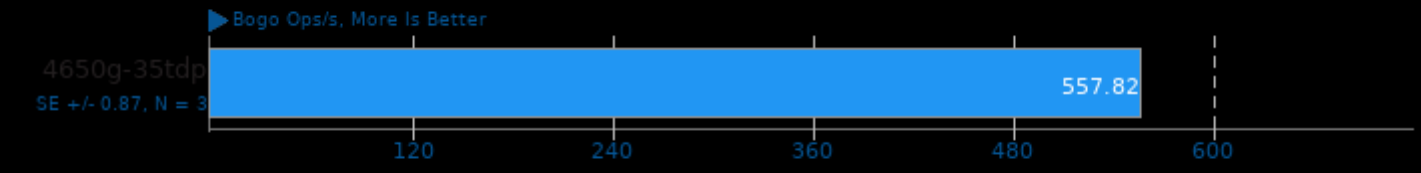
Test: MMAP




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

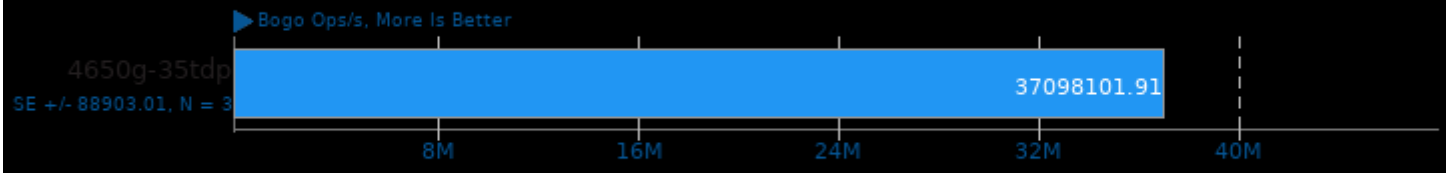
Test: MEMFD




1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic

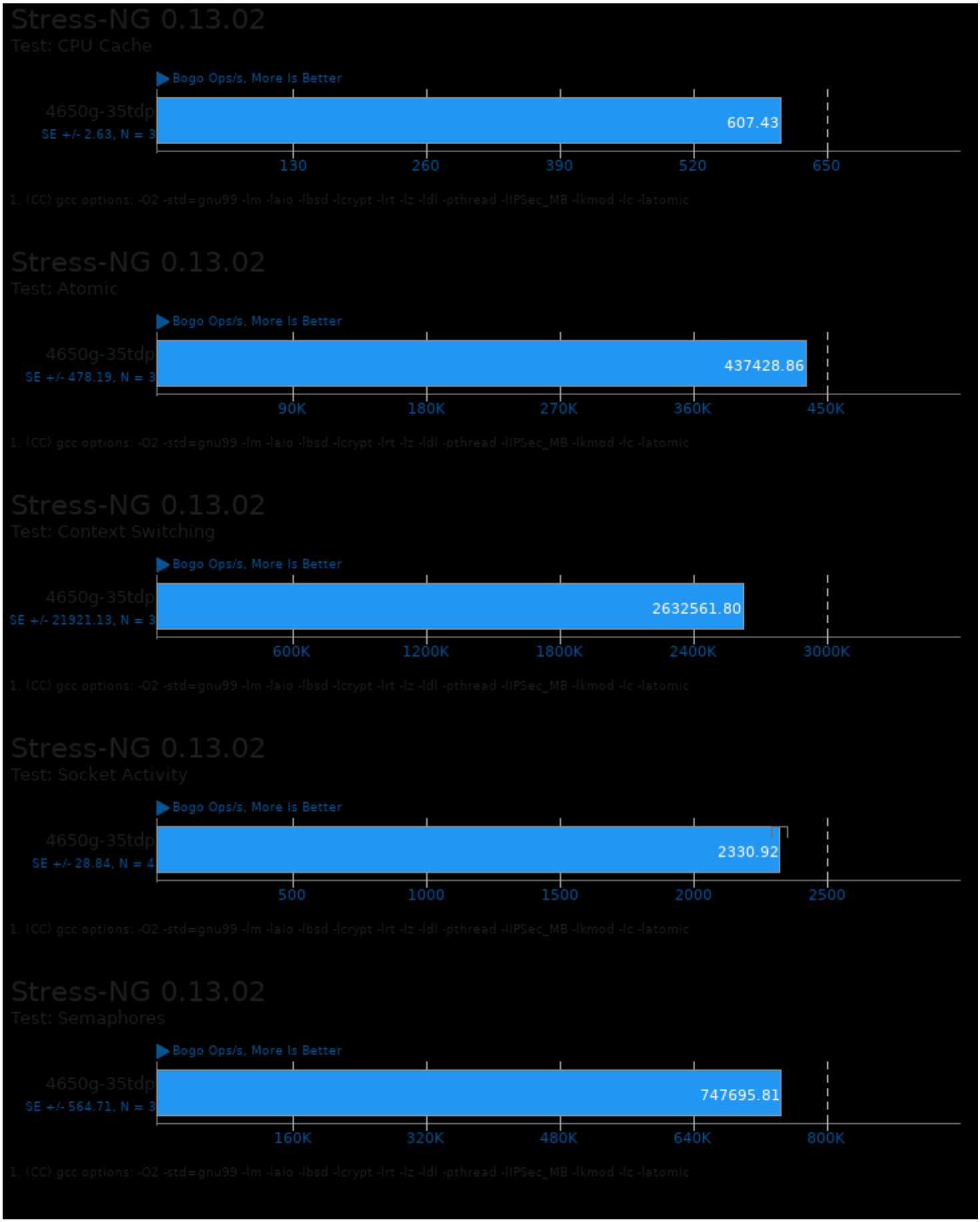
## Stress-NG 0.13.02

Test: Malloc

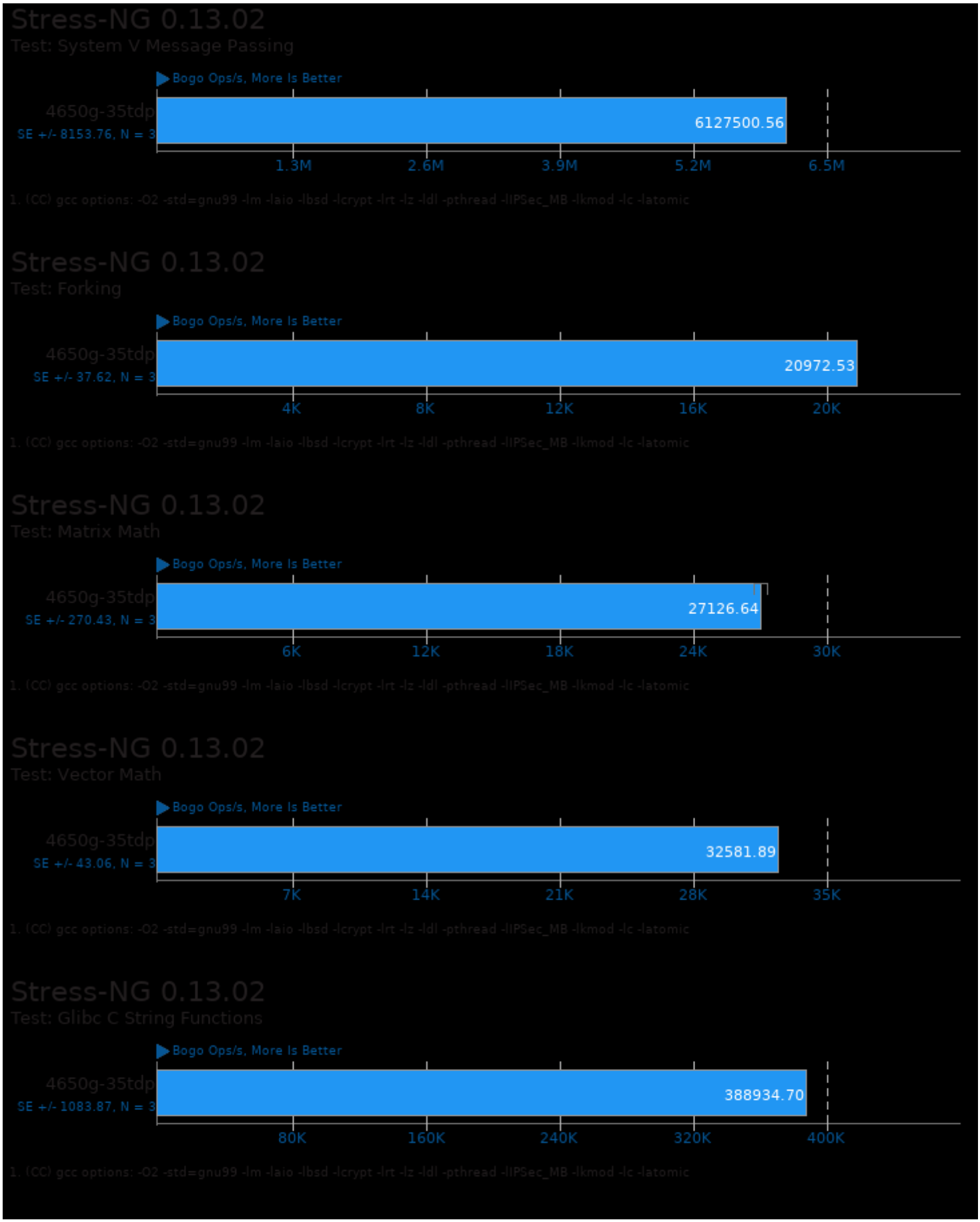



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic

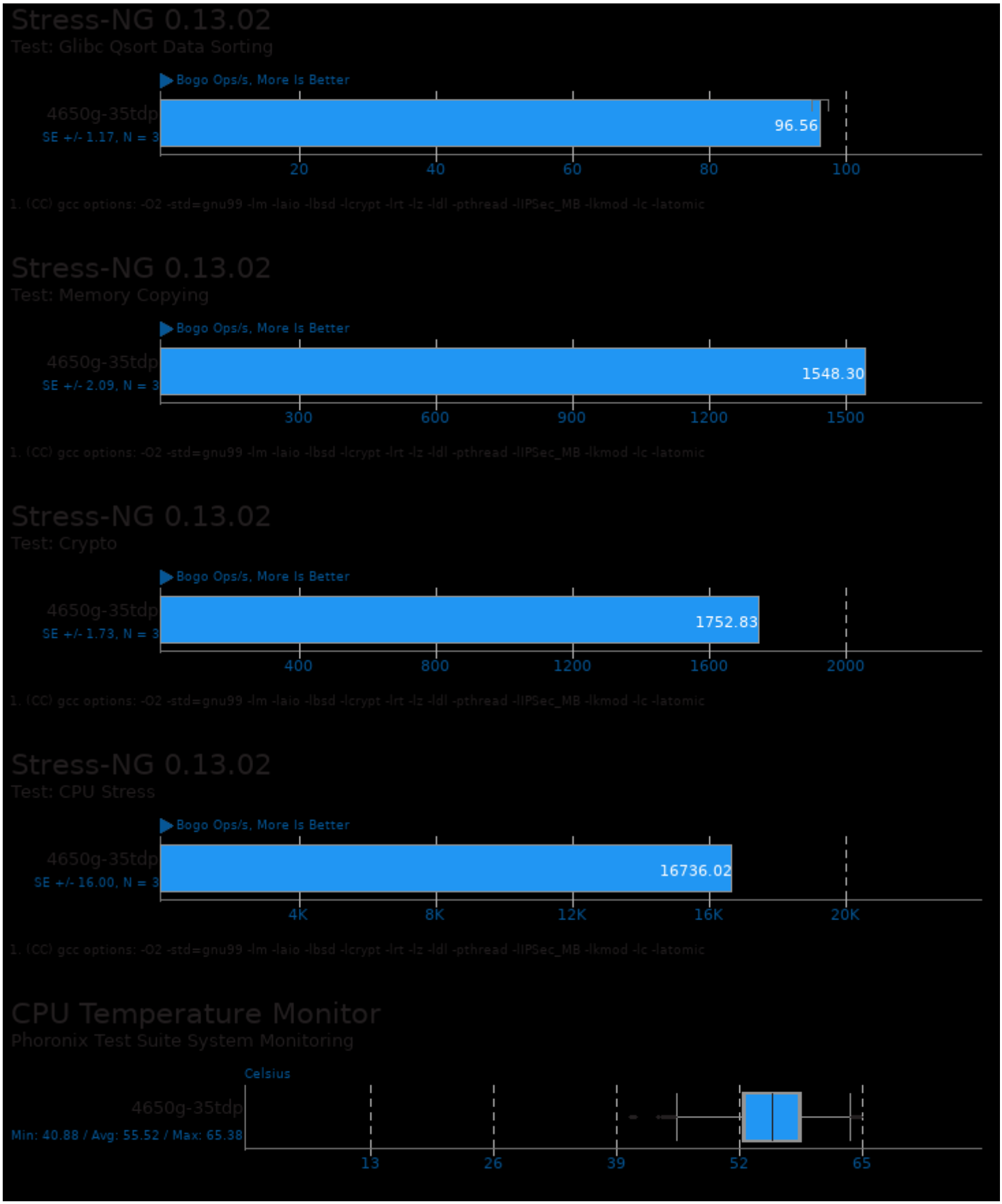
# stress-4650g-35tdp

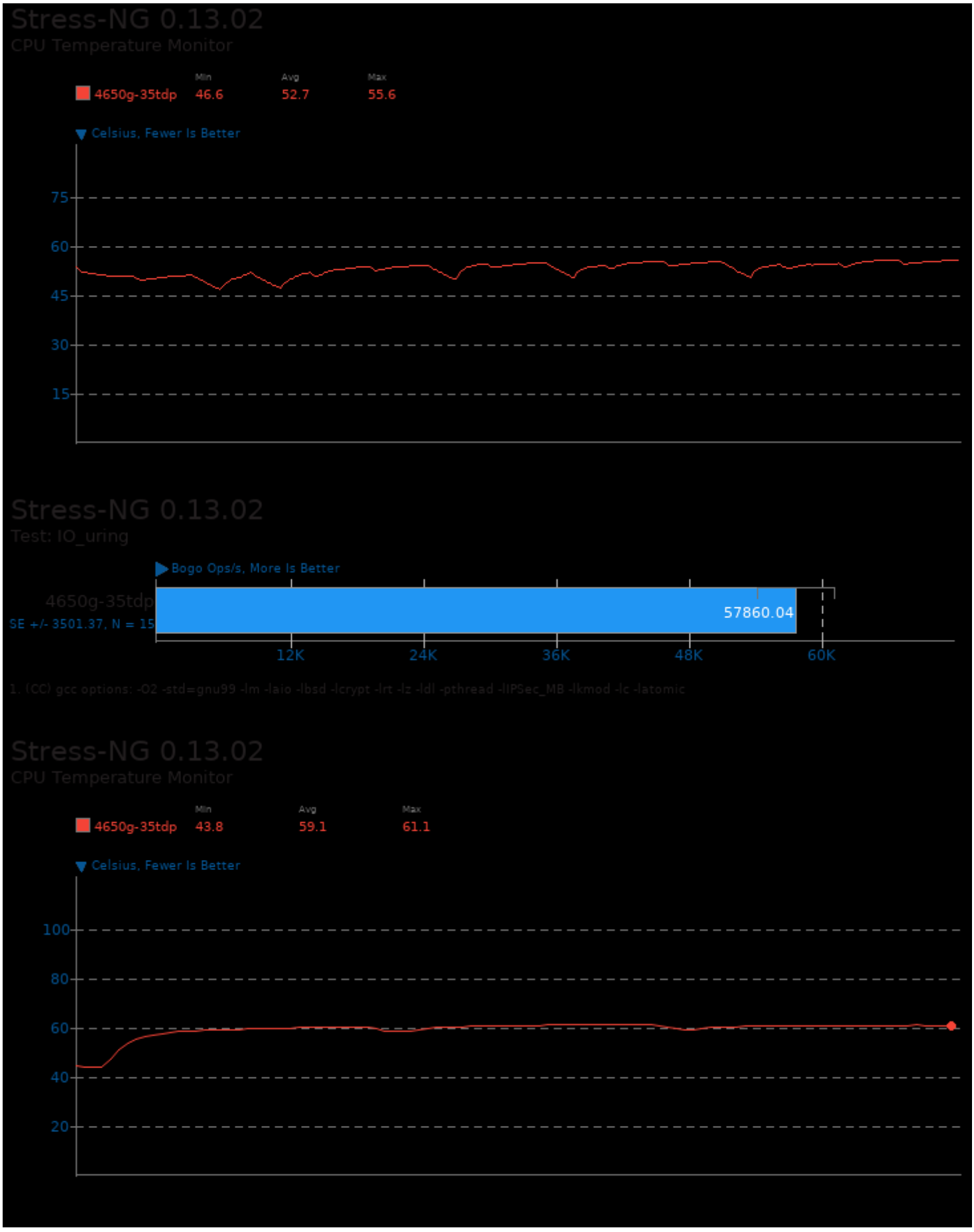


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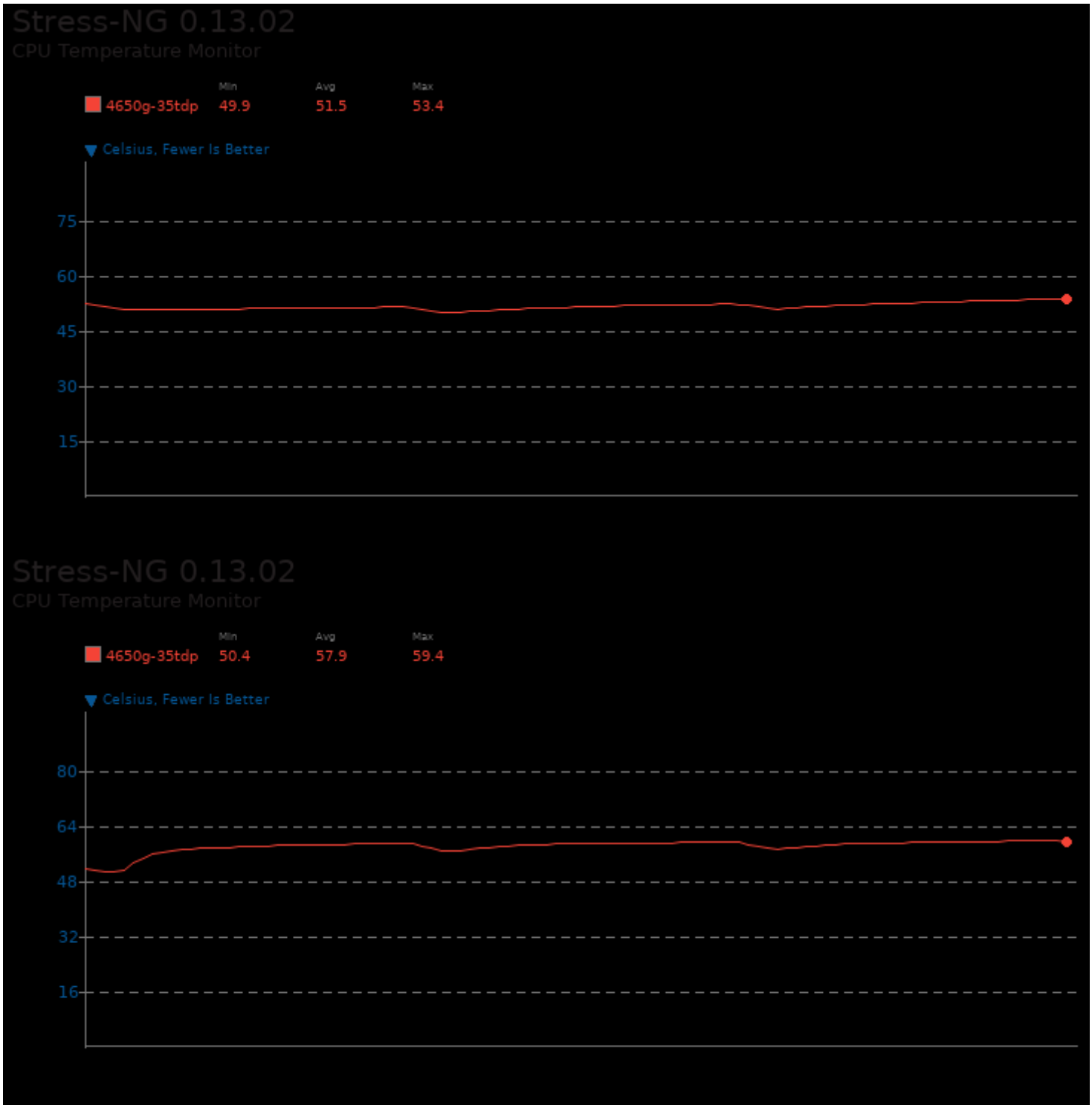


# stress-4650g-35tdp

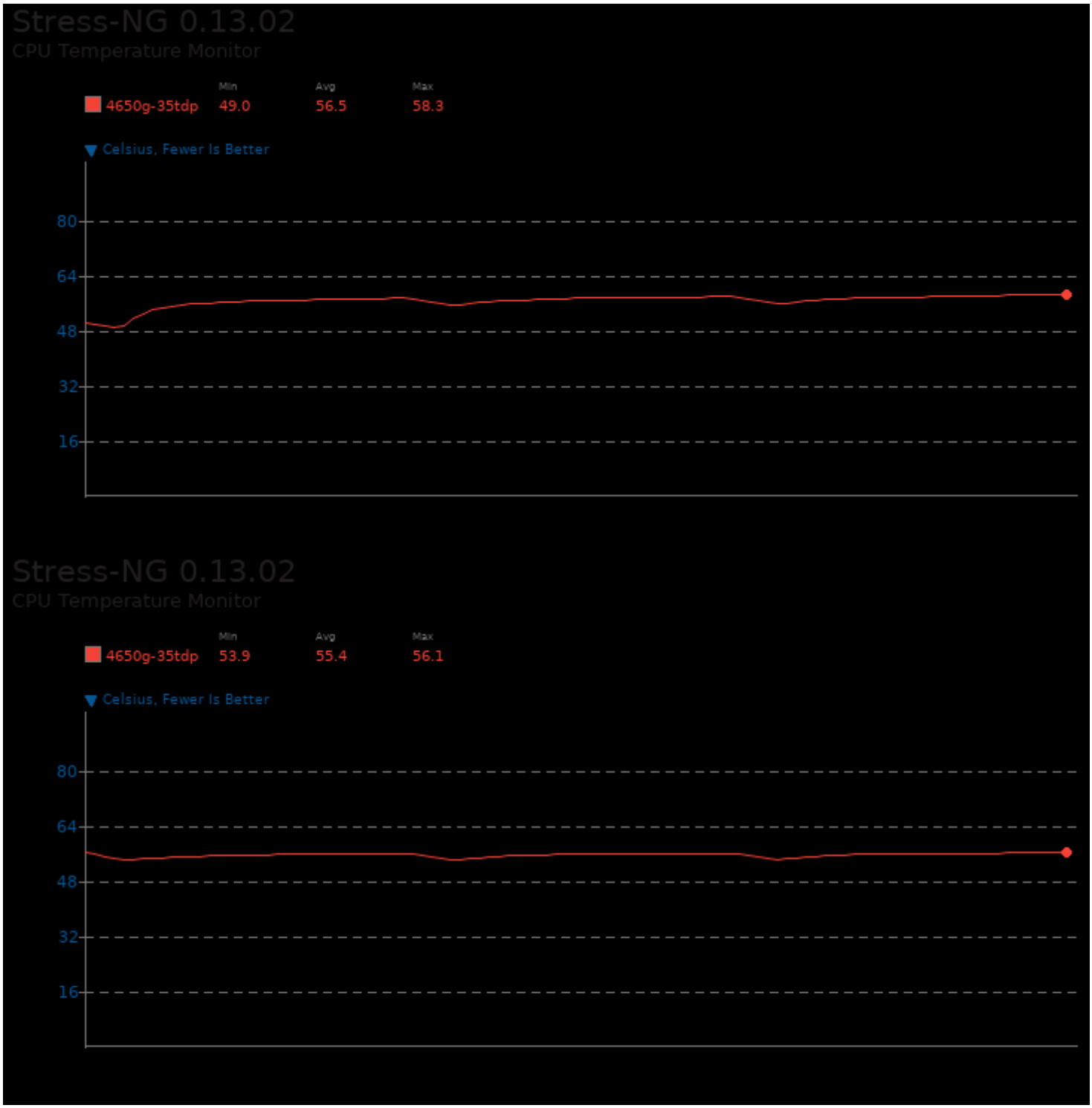



Stress-NG 0.13.02
CPU Temperature Monitor
Min
Avg
Max
4650g-35tdp
46.6
52.7
55.6
Celsius, Fewer Is Better
75
60
45
30
15
Stress-NG 0.13.02
Test: IO_uring
Bogo Ops/s, More Is Better
4650g-35tdp
SE +/- 3501.37, N = 15
57860.04
12K
24K
36K
48K
60K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic
Stress-NG 0.13.02
CPU Temperature Monitor
Min
Avg
Max
4650g-35tdp
43.8
59.1
61.1
Celsius, Fewer Is Better
100
80
60
40
20

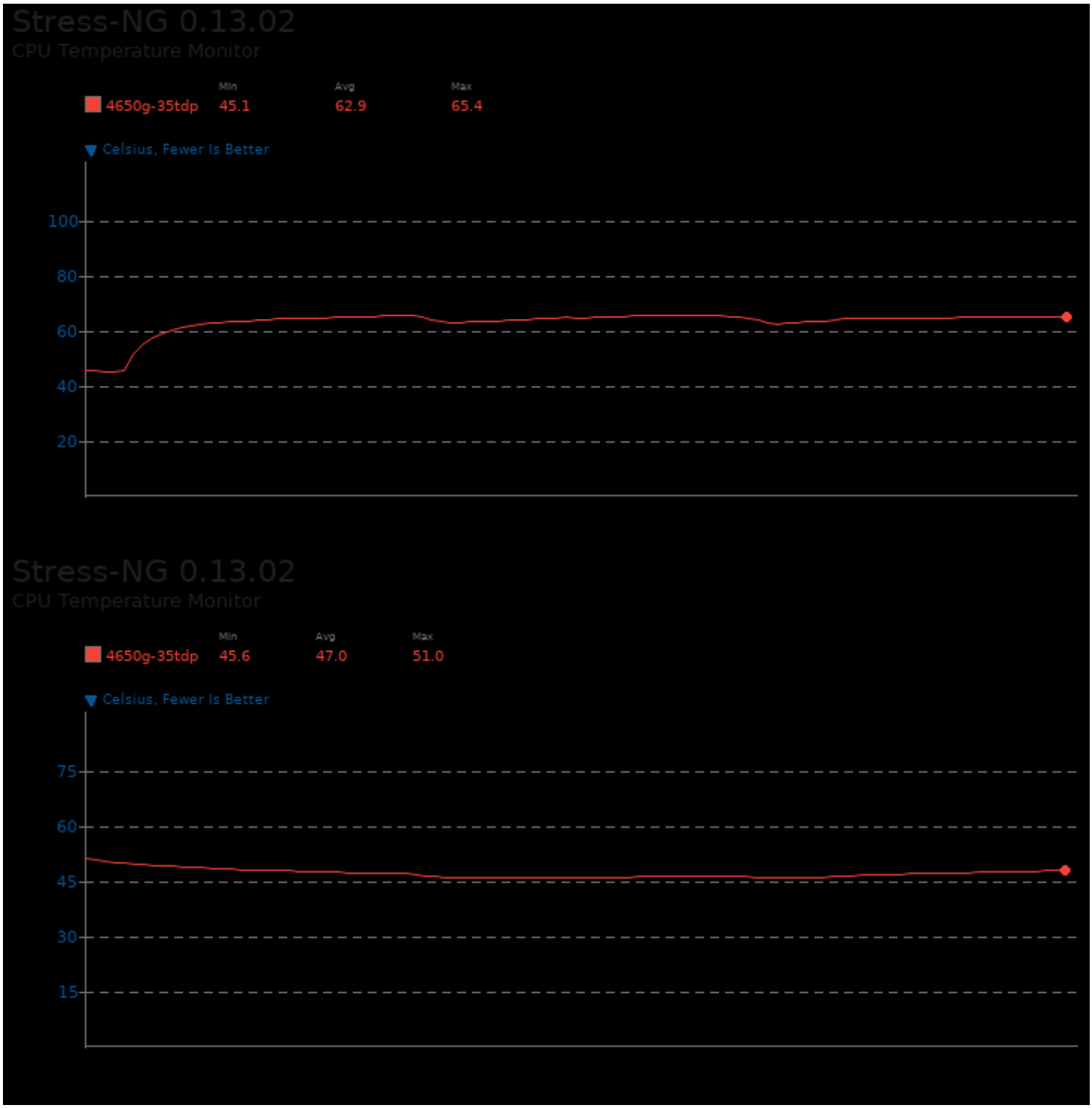
# stress-4650g-35tdp



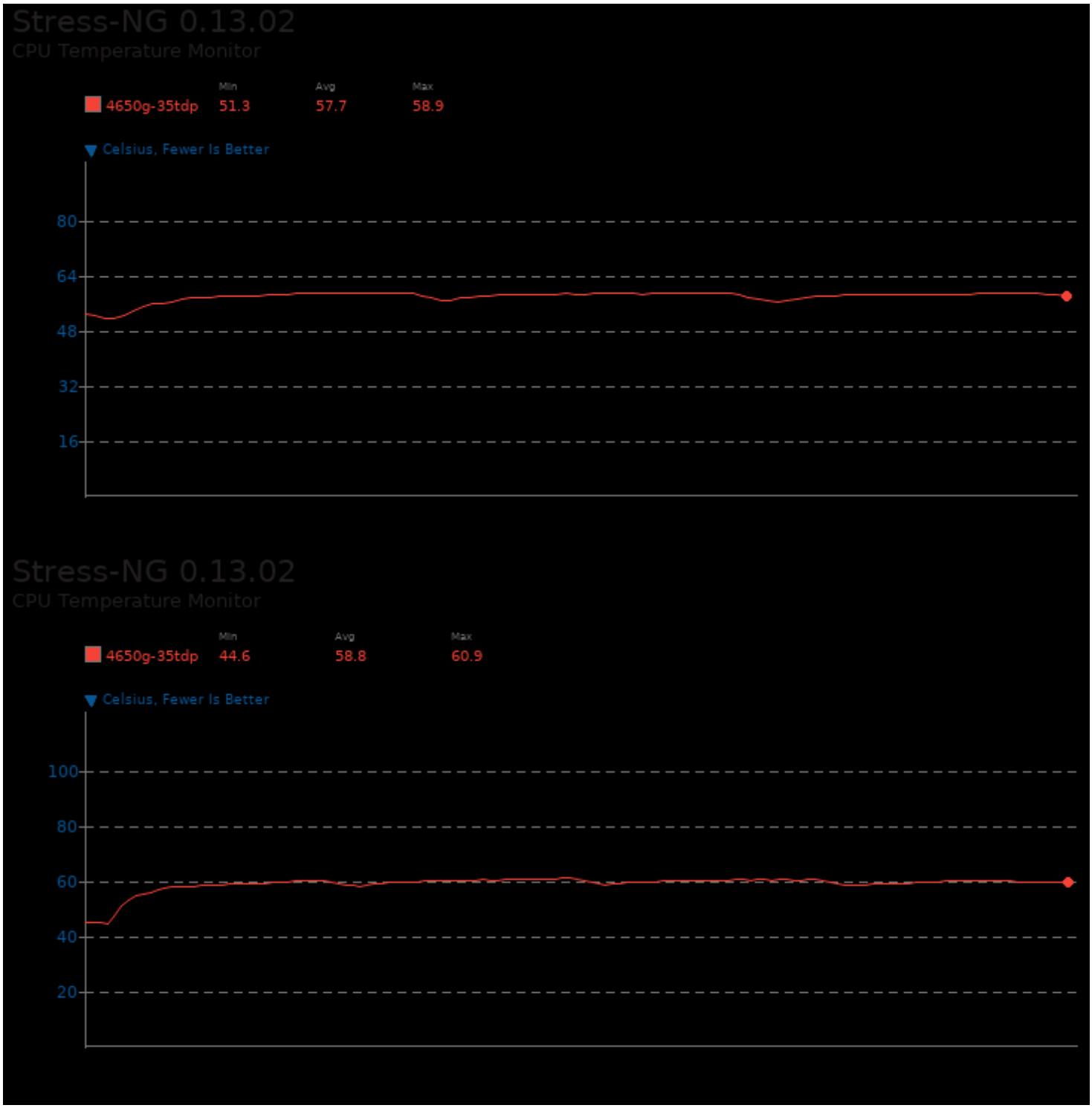
# stress-4650g-35tdp



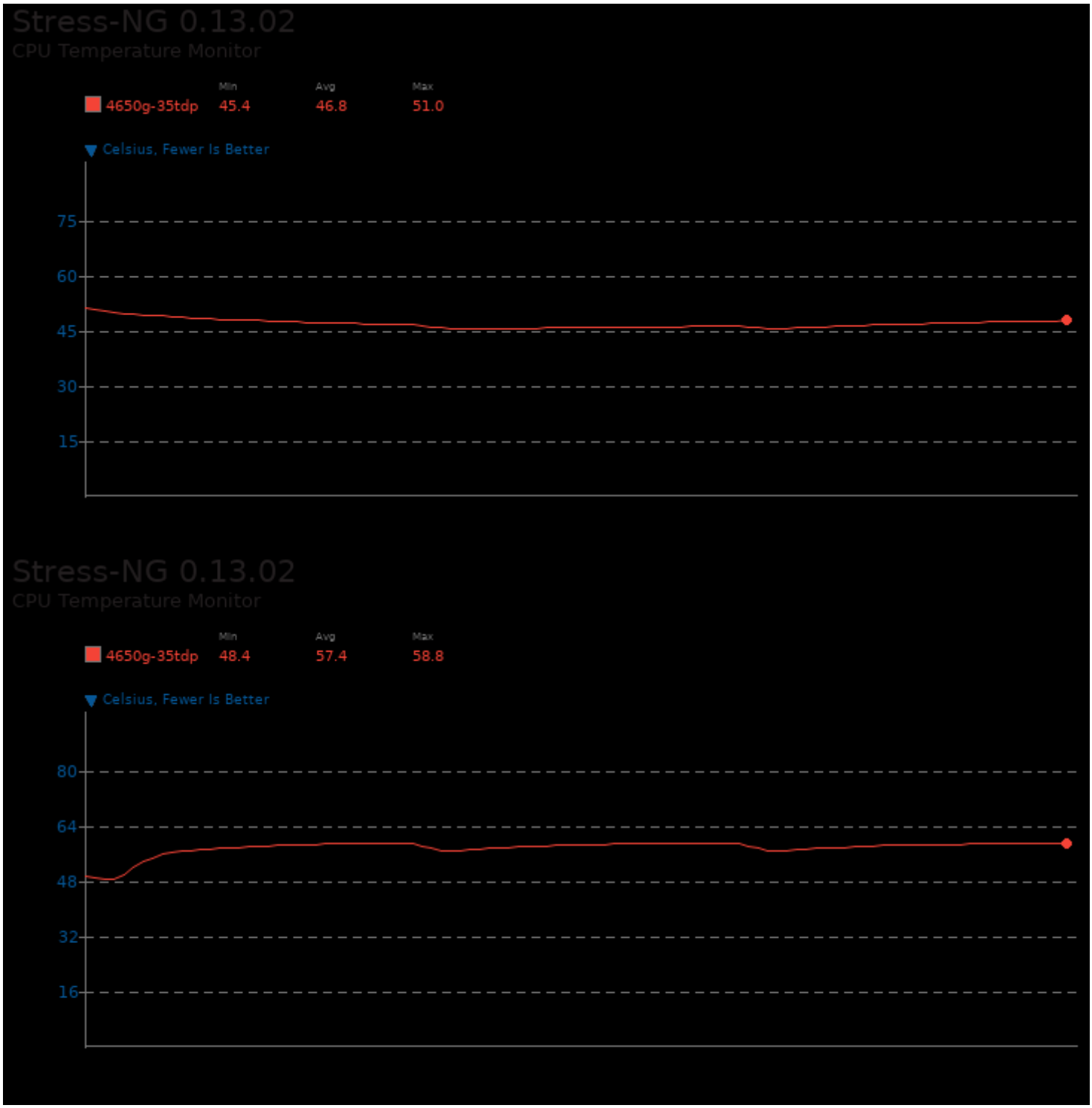
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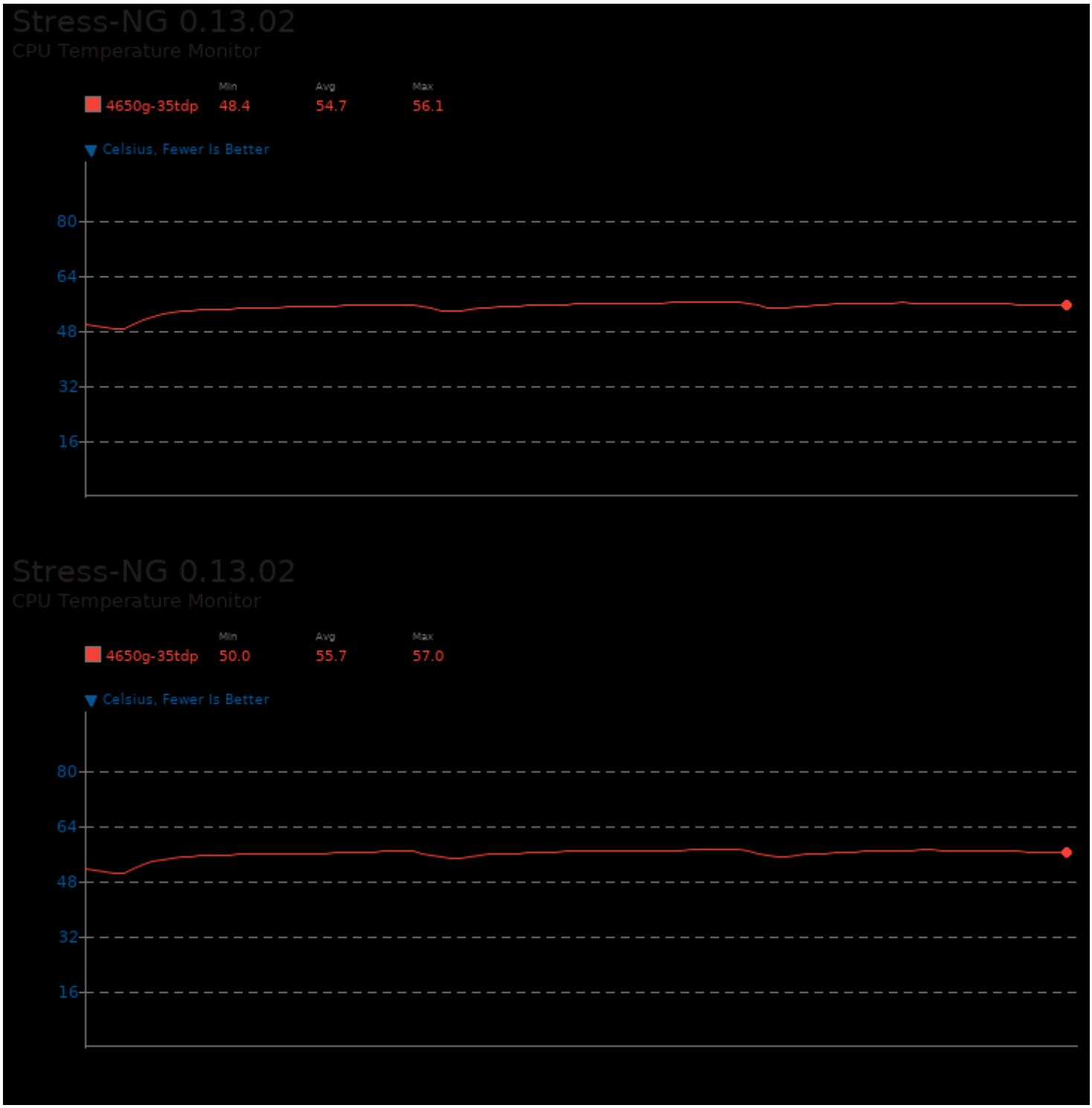
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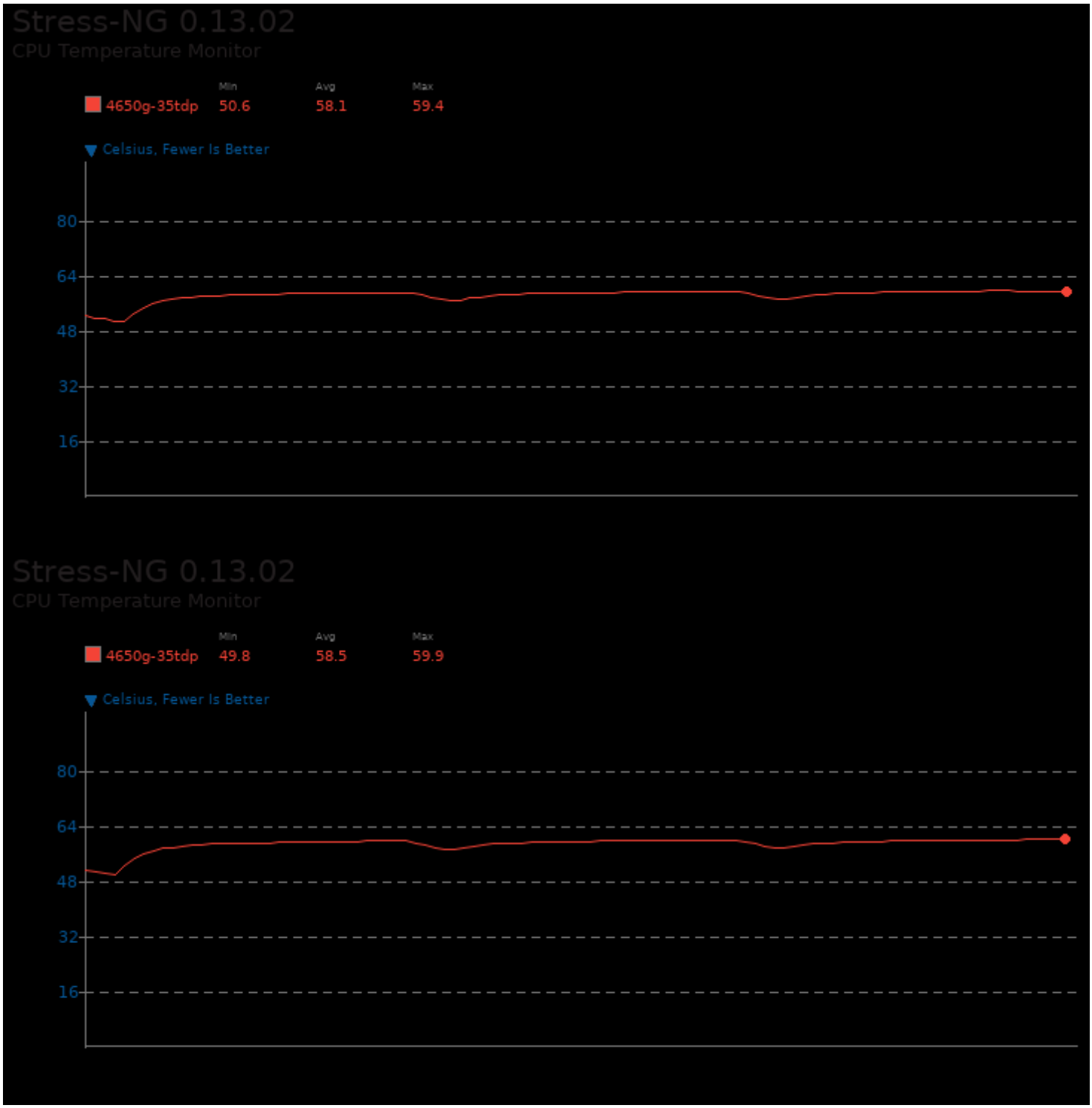
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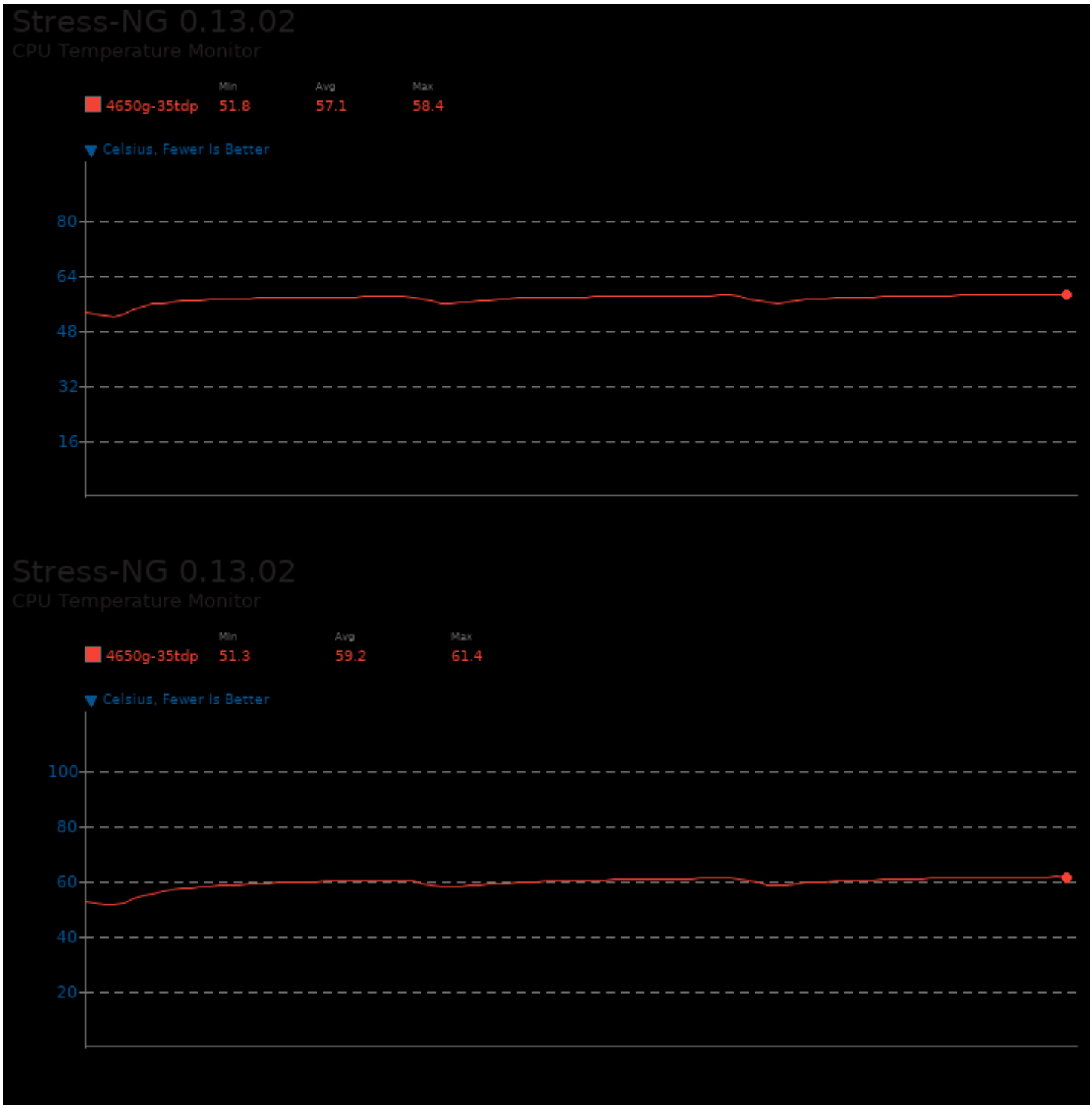
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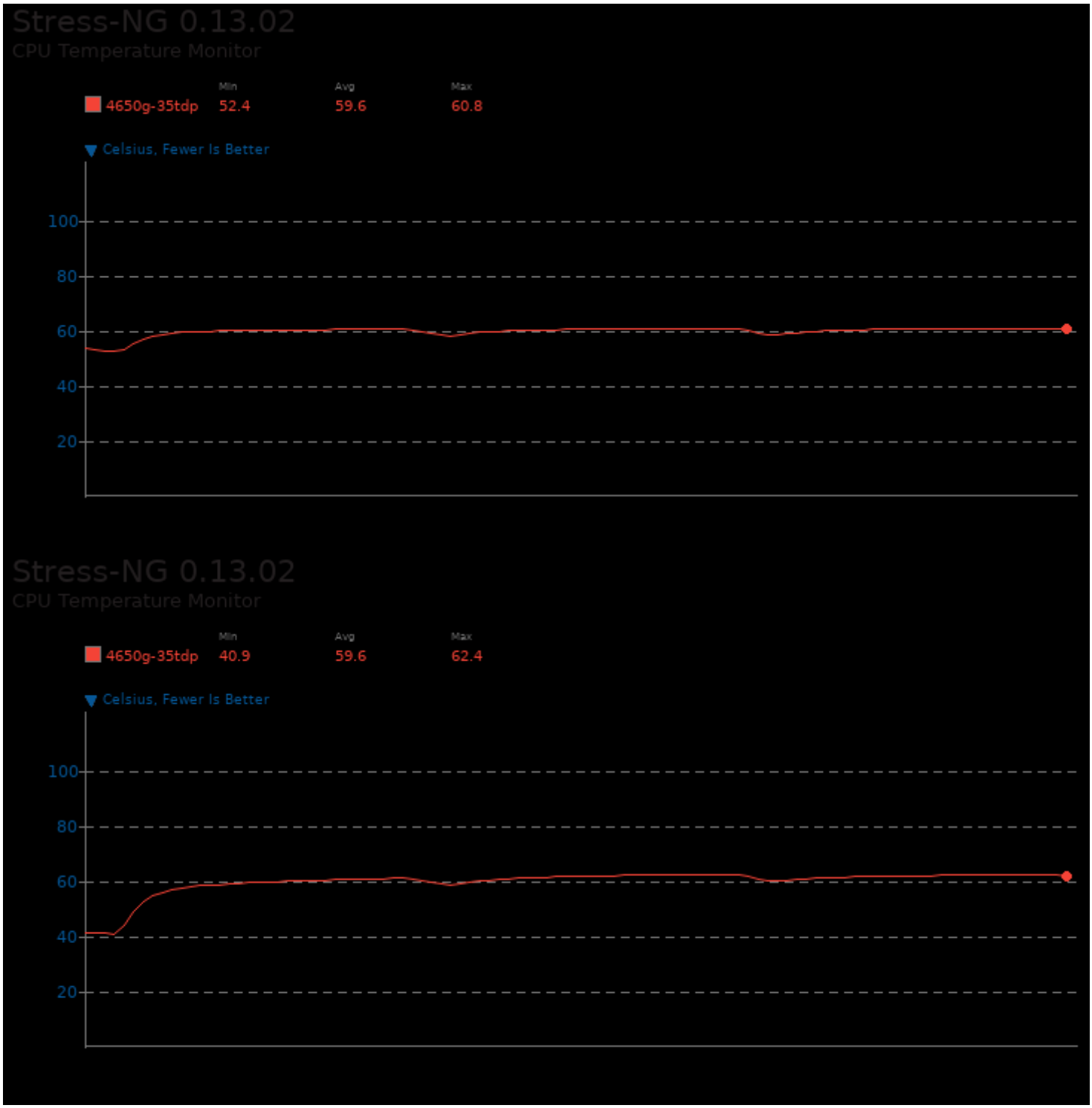
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