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stress-4650g-45tdp-2

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-45tdp

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

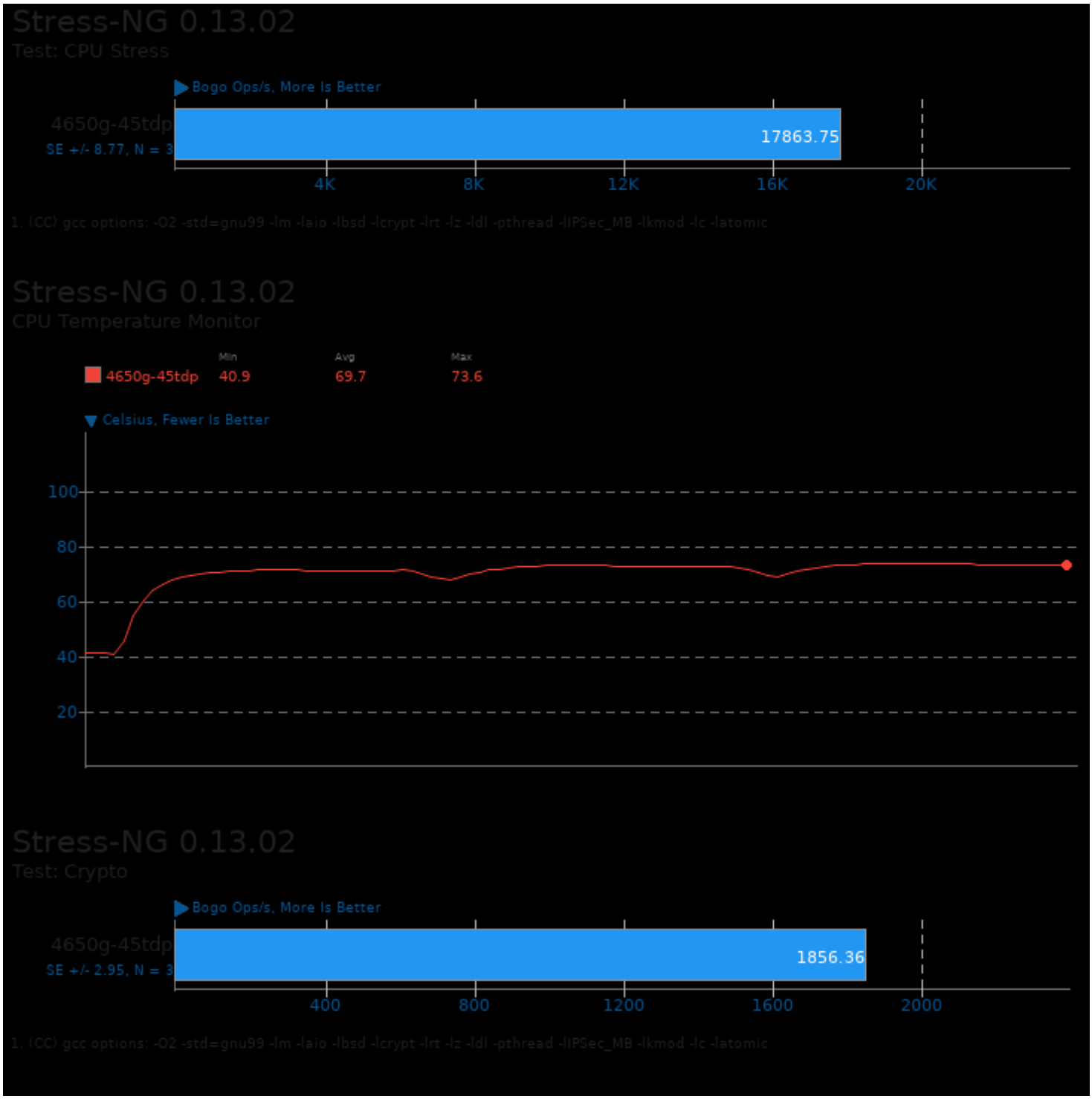
Kernel Notes: radeon.cik_support=0 amdgpu.cik_support=1 amdgpu.runpm=1 amdgpu.aspm=1 amdgpu.ppfeaturemask=0xffffffff - Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release

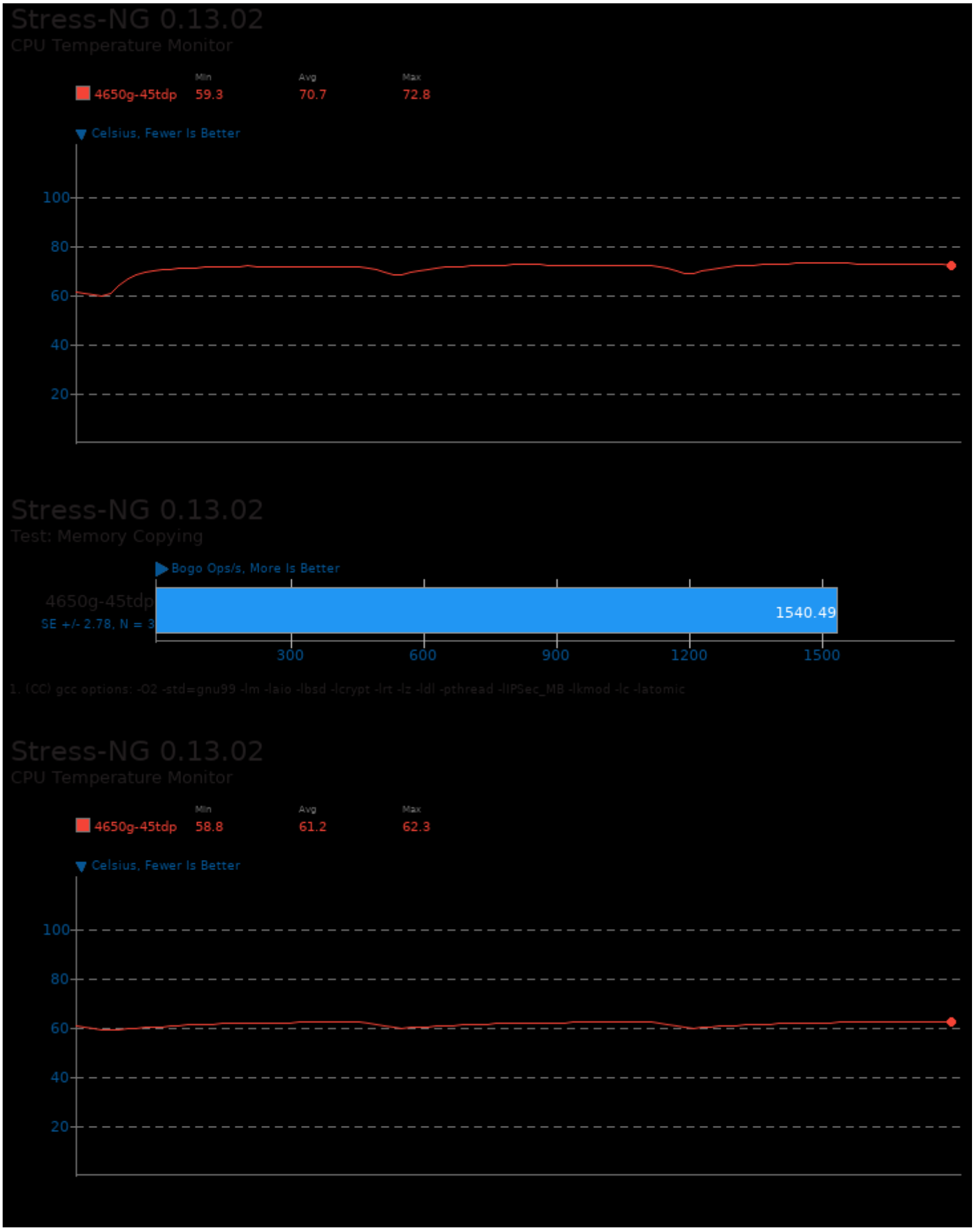
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--enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --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-45tdp
Stress-NG - CPU Stress (Bogo Ops/s)	17864
Standard Deviation	0.1%
Stress-NG - Crypto (Bogo Ops/s)	1856
Standard Deviation	0.3%
Stress-NG - Memory Copying (Bogo Ops/s)	1540
Standard Deviation	0.3%
Stress-NG - G.Q.D.S (Bogo Ops/s)	104.82
Standard Deviation	1.6%
Stress-NG - G.C.S.F (Bogo Ops/s)	414592
Standard Deviation	0.7%
Stress-NG - Vector Math (Bogo Ops/s)	35450
Standard Deviation	0.6%
Stress-NG - Matrix Math (Bogo Ops/s)	29512
Standard Deviation	2.3%
Stress-NG - Forking (Bogo Ops/s)	21187
Standard Deviation	0.2%
Stress-NG - S.V.M.P (Bogo Ops/s)	6094475
Standard Deviation	0.1%
Stress-NG - Semaphores (Bogo Ops/s)	749541
Standard Deviation	0.1%
Stress-NG - Socket Activity (Bogo Ops/s)	1930
Standard Deviation	1.1%
Stress-NG - Context Switching (Bogo Ops/s)	3358612
Standard Deviation	2.1%
Stress-NG - Atomic (Bogo Ops/s)	435548
Standard Deviation	0.4%
Stress-NG - CPU Cache (Bogo Ops/s)	612.26
Standard Deviation	0.3%
Stress-NG - Malloc (Bogo Ops/s)	36967027
Standard Deviation	0.2%
Stress-NG - MEMFD (Bogo Ops/s)	572.57
Standard Deviation	0.3%
Stress-NG - MMAP (Bogo Ops/s)	120.15
Standard Deviation	0.1%
Stress-NG - NUMA (Bogo Ops/s)	259.31
Standard Deviation	0%
Stress-NG - SENDFILE (Bogo Ops/s)	128843
Standard Deviation	0.5%
Stress-NG - IO_uring (Bogo Ops/s)	71216
Standard Deviation	0.8%

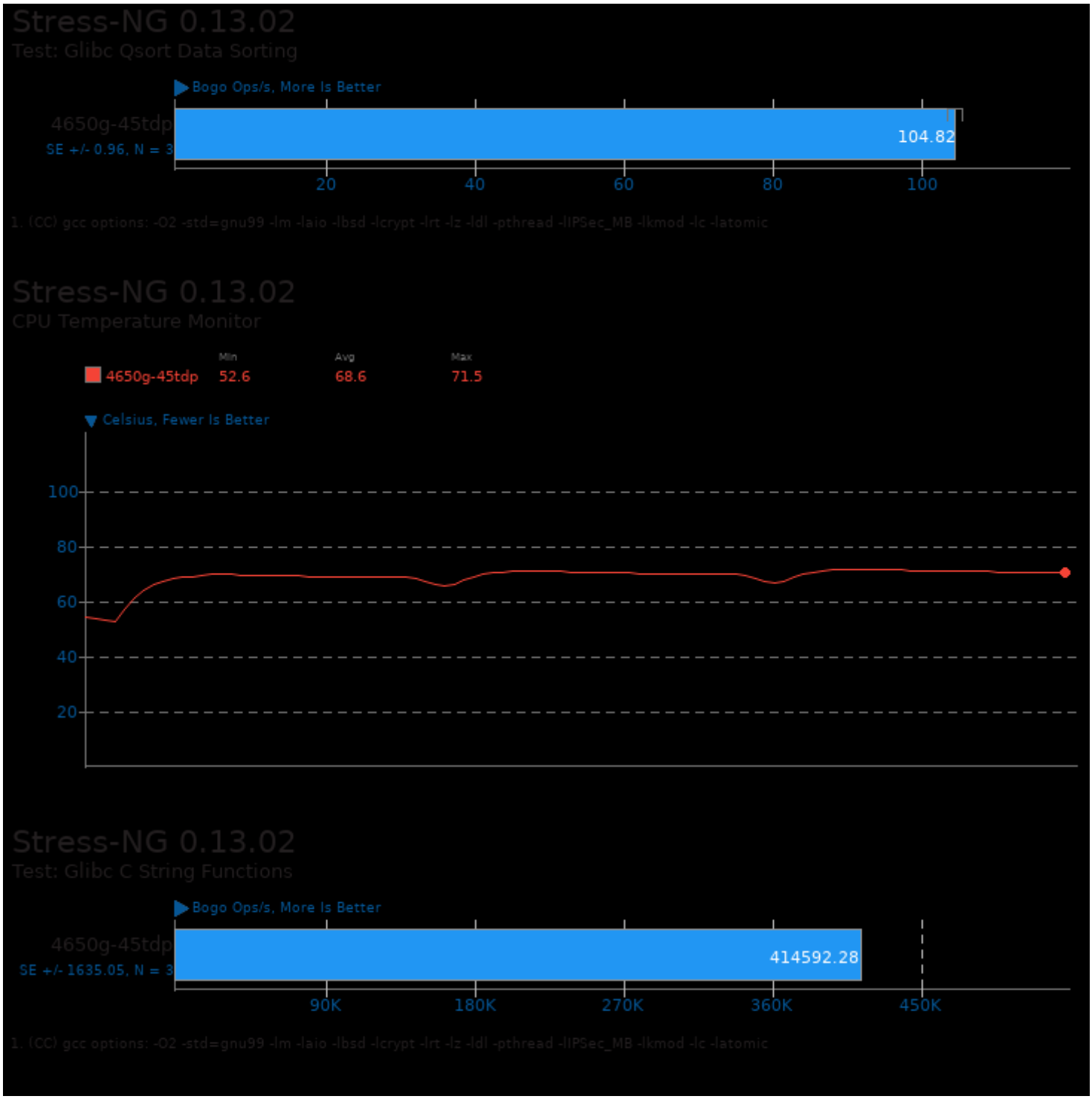
stress-4650g-45tdp-2

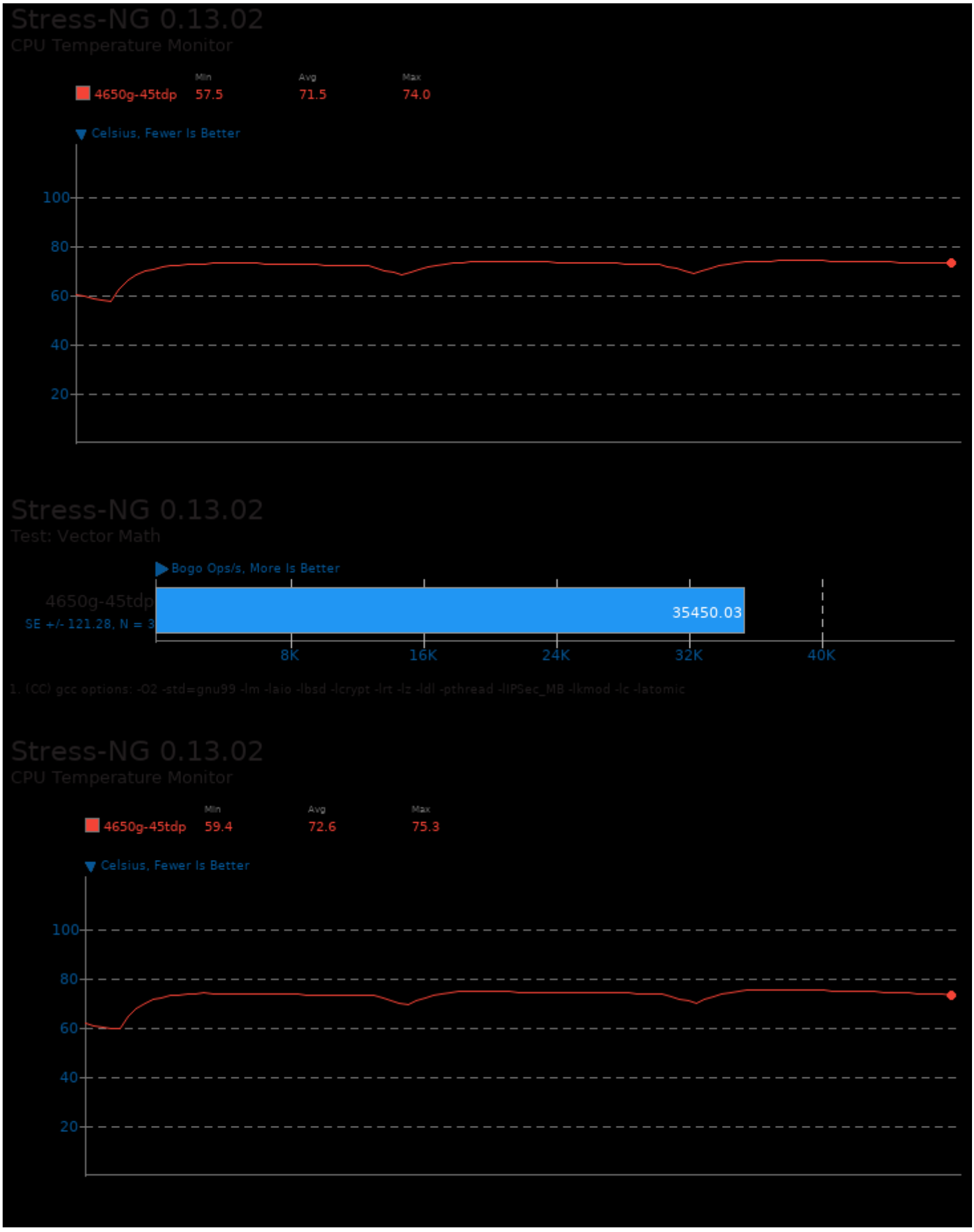




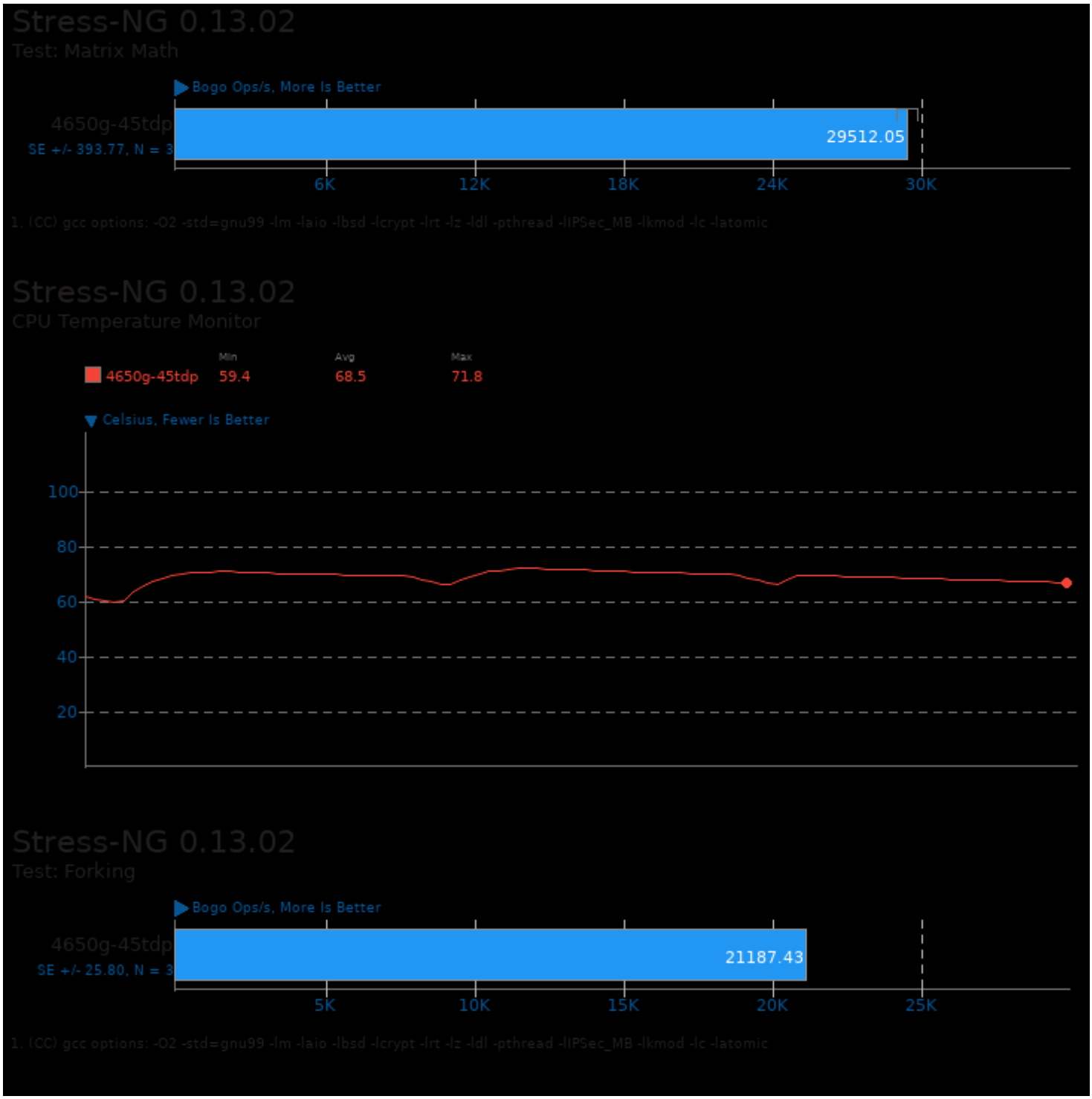
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic

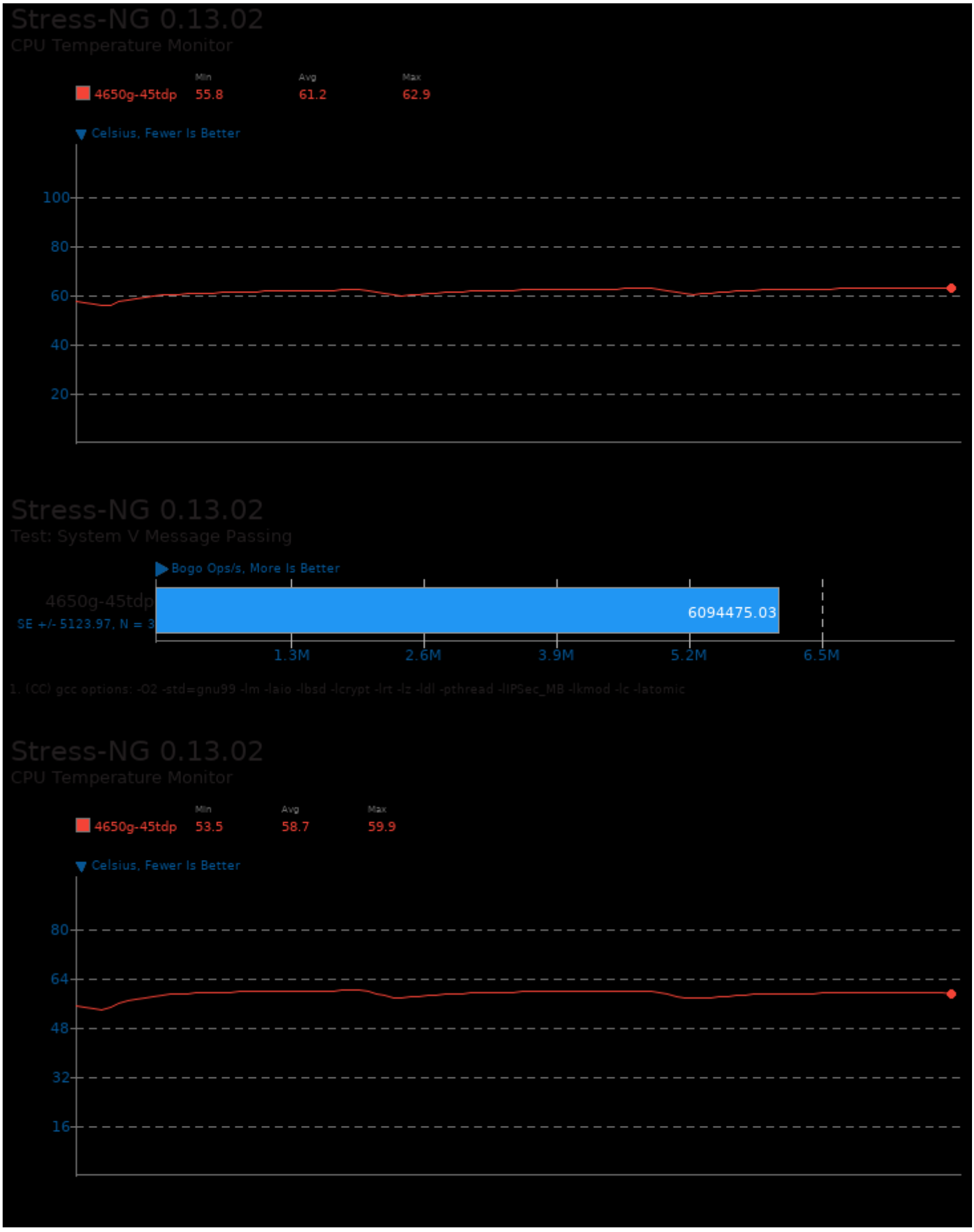
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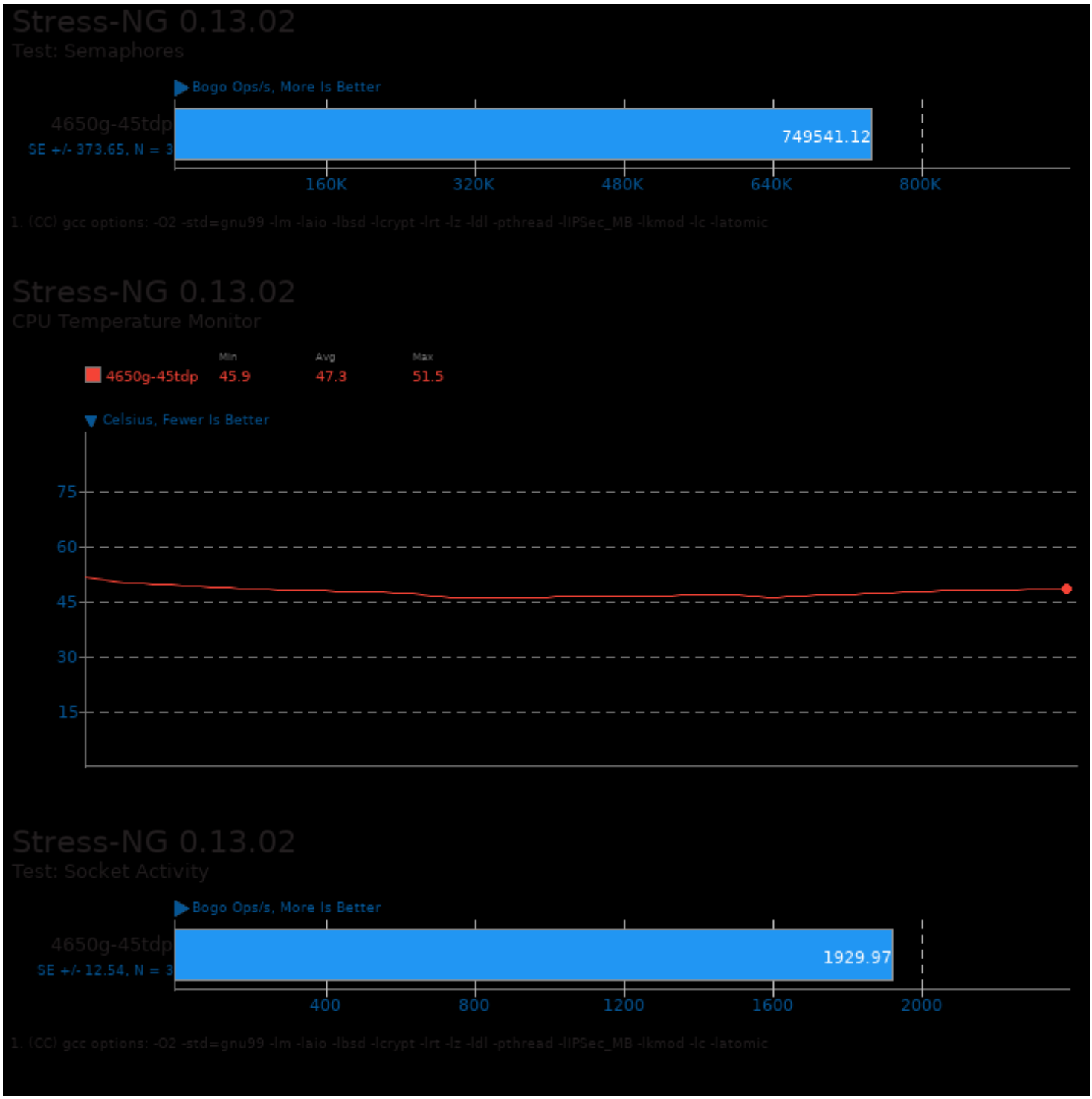

Stress-NG 0.13.02
CPU Temperature Monitor
Min
Avg
Max
4650g-45tdp
57.5
71.5
74.0
Celsius, Fewer Is Better
100
80
60
40
20
Stress-NG 0.13.02
Test: Vector Math
Bogo Ops/s, More Is Better
4650g-45tdp
SE +/- 121.28, N = 3
35450.03
8K
16K
24K
32K
40K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lz -ldl -pthread -lIPSec_MB -lkmod -lc -latomic
Stress-NG 0.13.02
CPU Temperature Monitor
Min
Avg
Max
4650g-45tdp
59.4
72.6
75.3
Celsius, Fewer Is Better
100
80
60
40
20

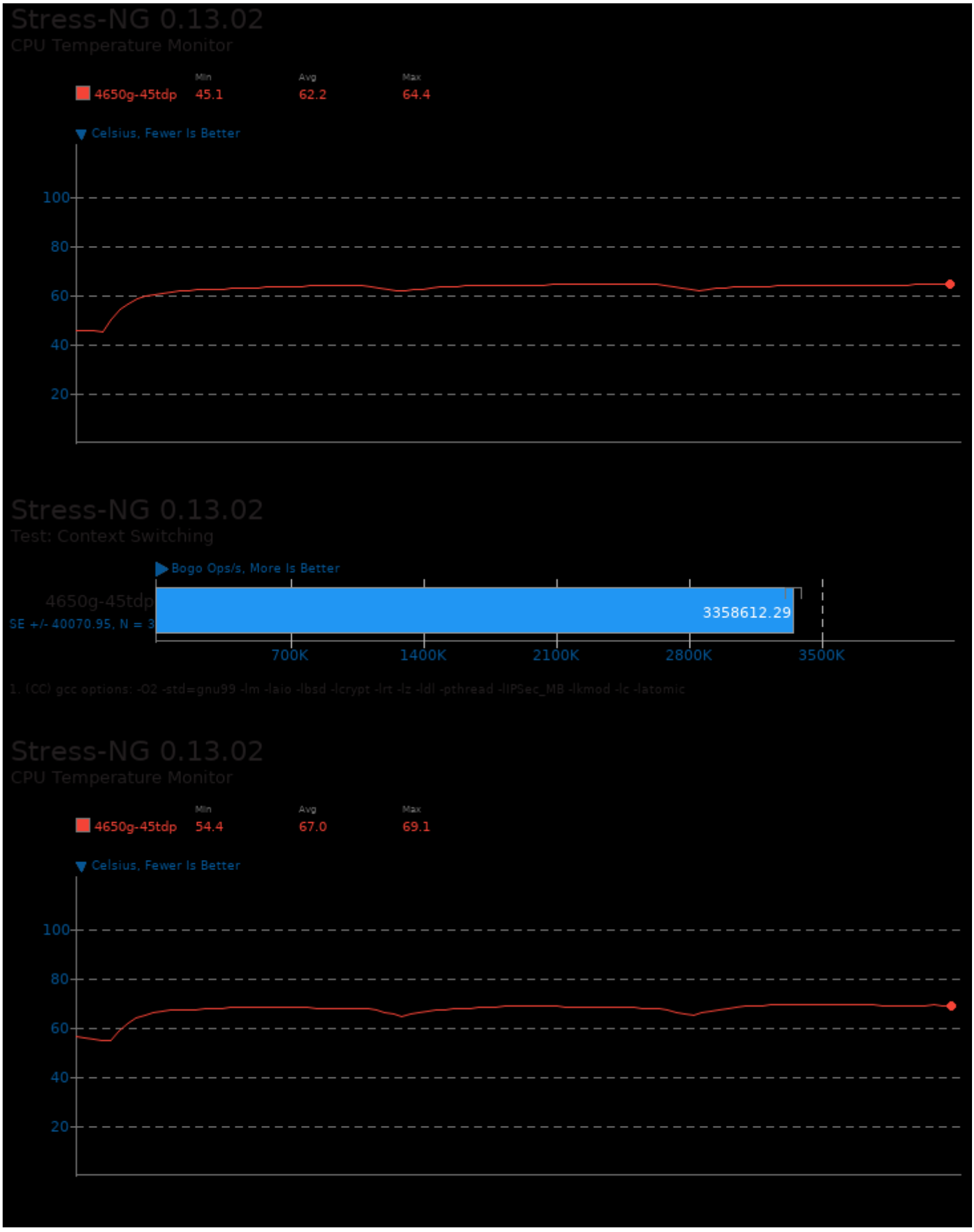
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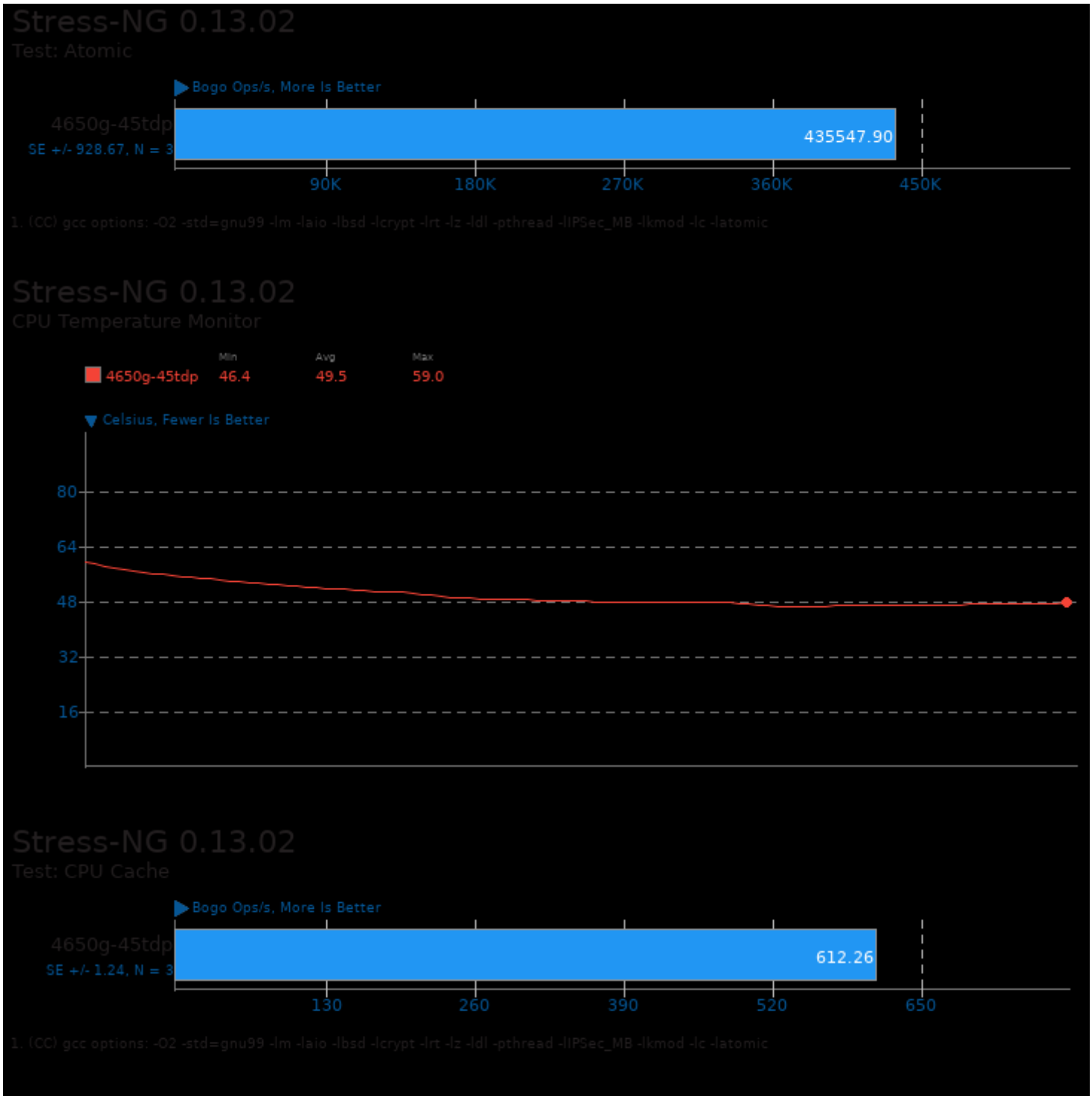

Stress-NG 0.13.02
CPU Temperature Monitor
Min
Avg
Max
4650g-45tdp
55.8
61.2
62.9
Celsius, Fewer Is Better
100
80
60
40
20
Stress-NG 0.13.02
Test: System V Message Passing
Bogo Ops/s, More Is Better
4650g-45tdp
SE +/- 5123.97, N = 3
6094475.03
1.3M
2.6M
3.9M
5.2M
6.5M
1. (CC) gcc options: -O2 -std=gnu99 -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-45tdp
53.5
58.7
59.9
Celsius, Fewer Is Better
80
64
48
32
16

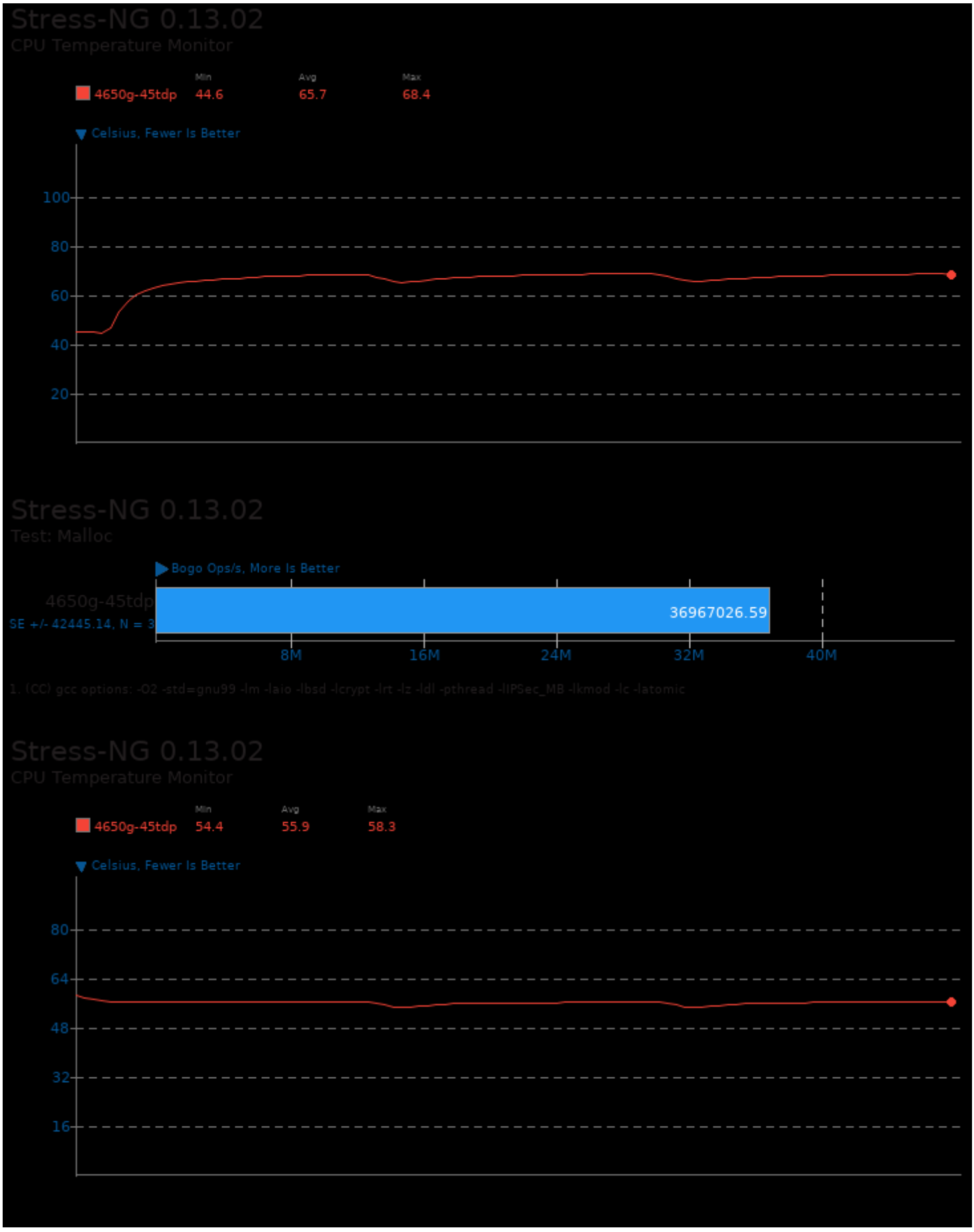
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Stress-NG 0.13.02
CPU Temperature Monitor
Min
Avg
Max
4650g-45tdp
45.1
62.2
64.4
Celsius, Fewer Is Better
100
80
60
40
20
Stress-NG 0.13.02
Test: Context Switching
Bogo Ops/s, More Is Better
4650g-45tdp
SE +/- 40070.95, N = 3
3358612.29
700K
1400K
2100K
2800K
3500K
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-45tdp
54.4
67.0
69.1
Celsius, Fewer Is Better
100
80
60
40
20

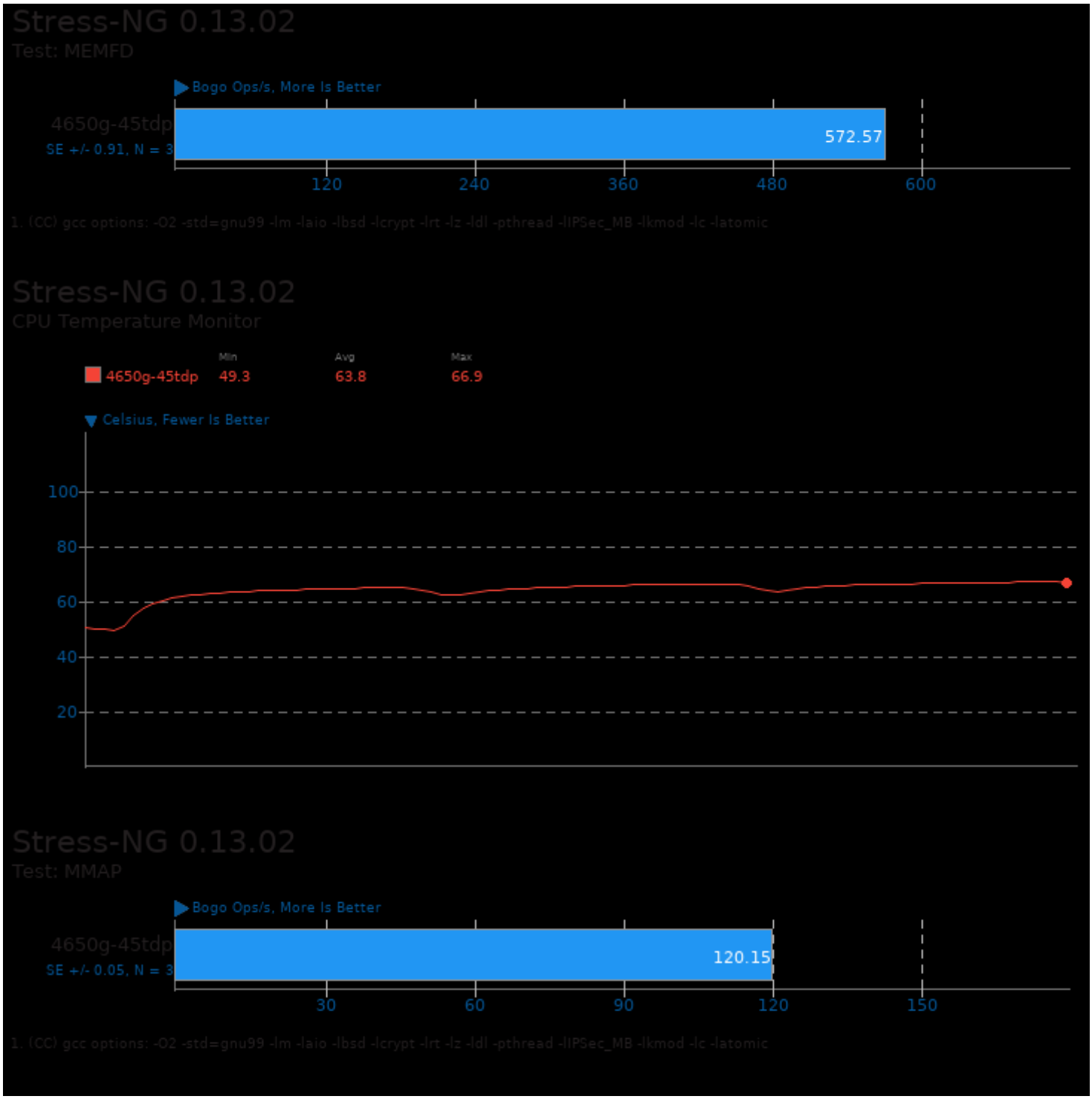
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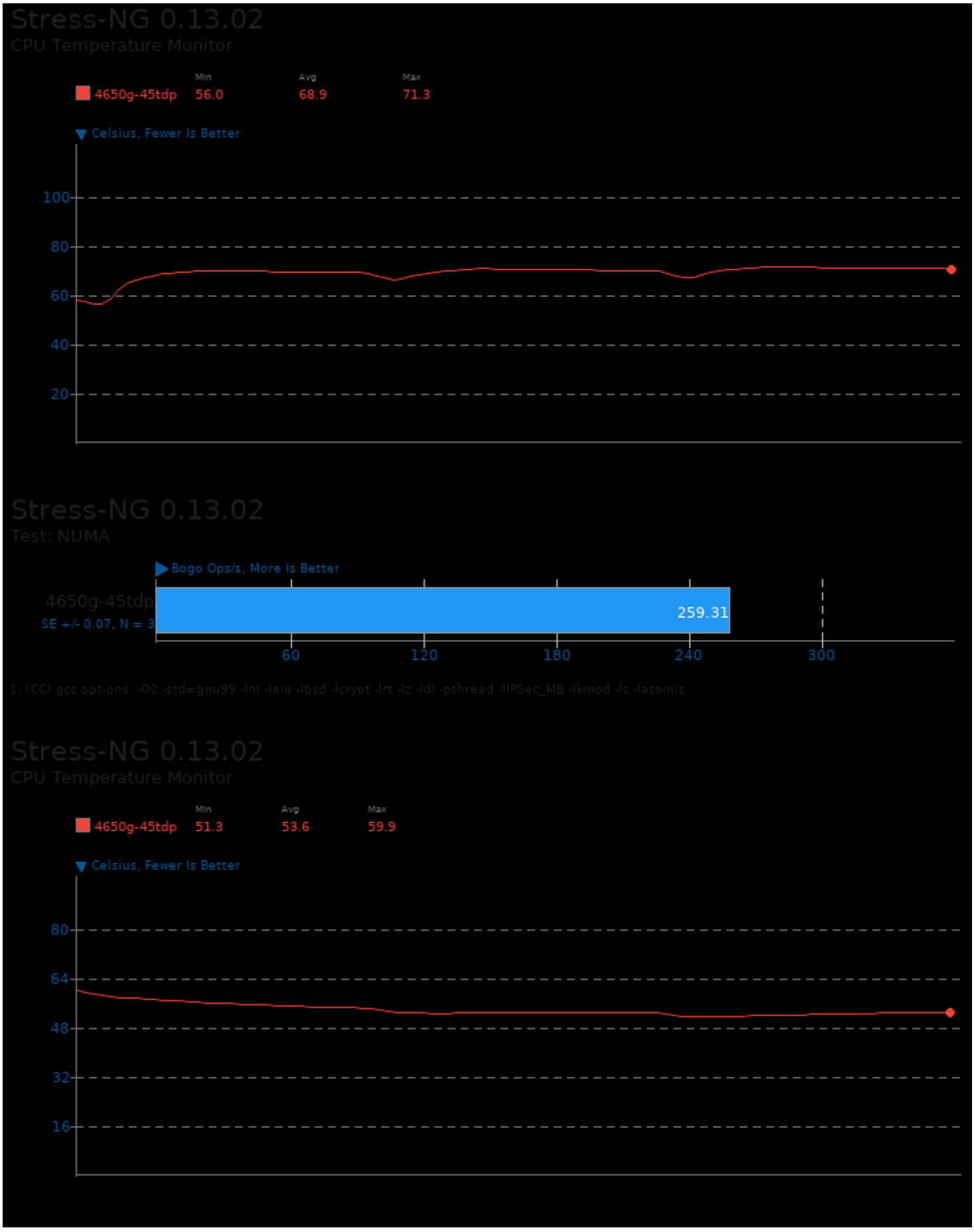


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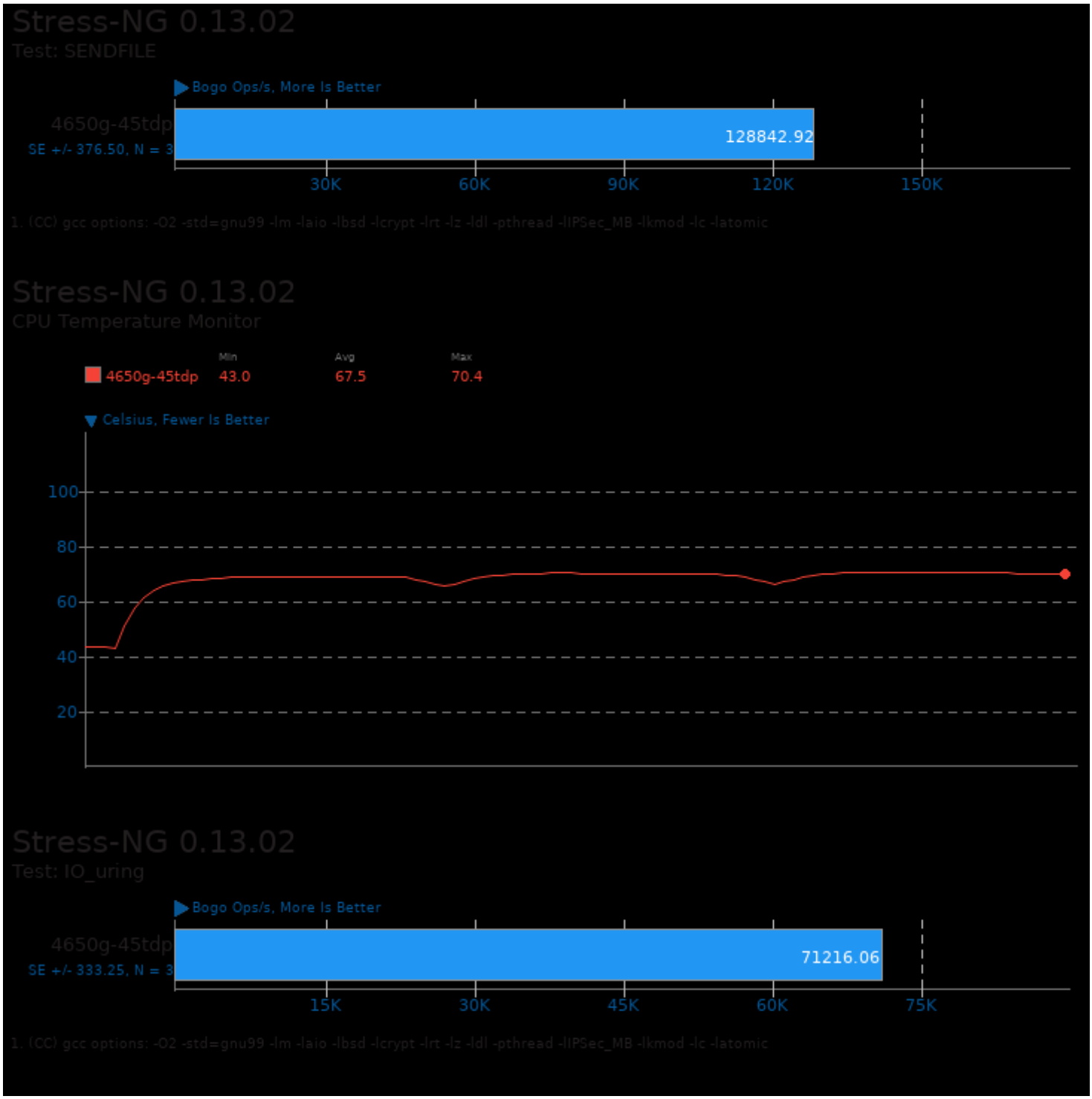
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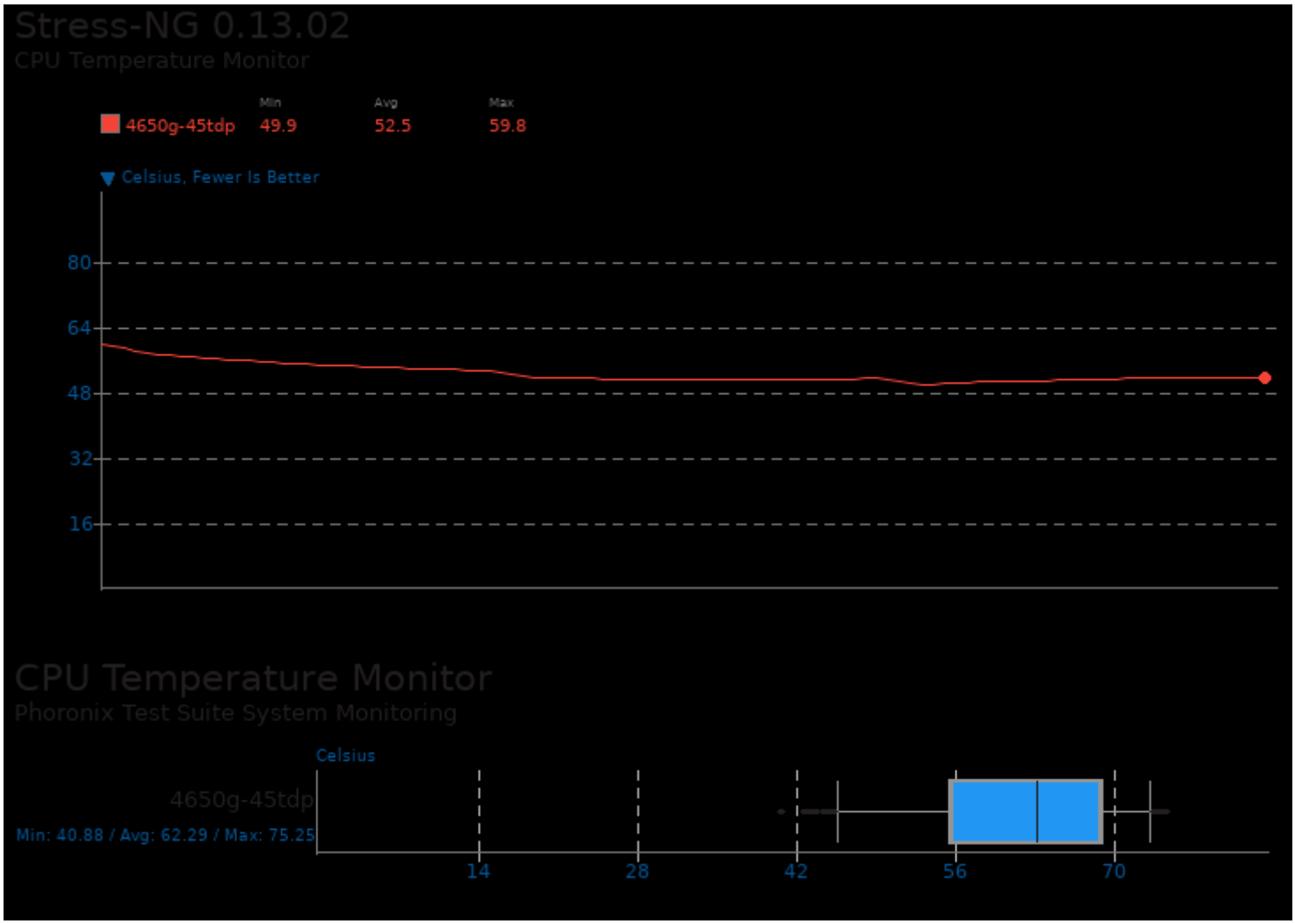


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