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2022-09-21-1019

Intel Core i7-4770 testing with a MSI B85M-P33 V2 (MS-7846) v2.0 (V12.6 BIOS) and MSI NVIDIA NVC3 1GB on Linuxmint 20.2 via the Phoronix Test Suite.

Test Systems:

Intel Core i7-4770 #1

Processor: Intel Core i7-4770 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: MSI B85M-P33 V2 (MS-7846) v2.0 (V12.6 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 1 x 8192 MB DDR3-1333MT/s, Disk: Transcend 32GB, Graphics: MSI NVIDIA NVC3 1GB, Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Linuxmint 20.2, Kernel: 5.4.0-74-generic (x86_64), Display Server: X Server 1.20.11, Display Driver: nouveau, OpenGL: 4.3 Mesa 21.0.3, Compiler: GCC 9.3.0, File-System: overlayfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x28 - Thermald 1.9.1
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of

usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

Intel Core i7-4770 #2

Intel Core i7-4770 #3

Intel Core i7-4770 #4

Intel Core i7-4770 #5

1 x 8192 MB DDR3-1333MT

Processor: Intel Core i7-4770 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: MSI B85M-P33 V2 (MS-7846) v2.0 (V12.6 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 1 x 8192 MB DDR3-1333MT/s, Disk: Transcend 32GB, Graphics: MSI NVIDIA NVC3 1GB, Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

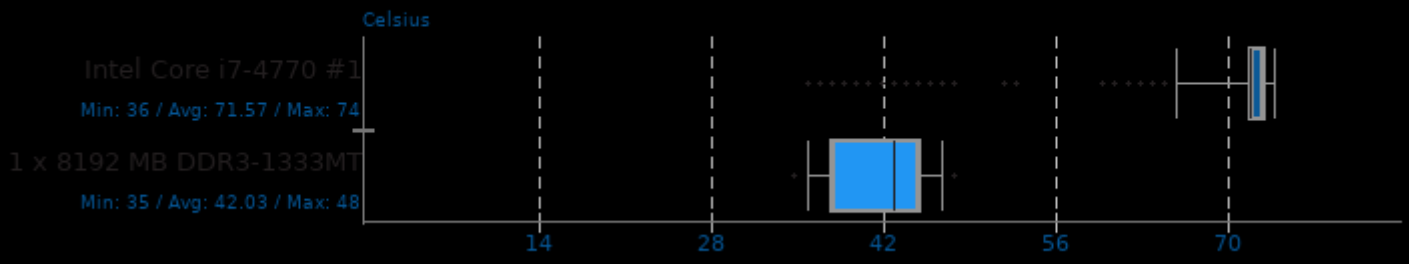
OS: Linuxmint 20.2, Kernel: 5.4.0-74-generic (x86_64), Display Server: X Server 1.20.11, Display Driver: nouveau, OpenGL: 4.3 Mesa 21.0.3, Vulkan: 1.0.2, Compiler: GCC 9.4.0, File-System: overlayfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-Av3uEd/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --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=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x28 - Thermald 1.9.1
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

	Intel Core i7-4770 #1	Intel Core i7-4770 #2	Intel Core i7-4770 #3	Intel Core i7-4770 #4	Intel Core i7-4770 #5	1 x 8192 MB DDR3-1333MT
Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)	143570					
Standard Deviation	2.3%					
C-Ray - Total Time - 4.1.R.P.P (sec)	200.377					
Standard Deviation	0%					
Helsing - 12 digit (sec)	13.277					
Standard Deviation	1.2%					
Helsing - 14 digit (sec)	1301					
Standard Deviation	0.3%					
t-test1 - 1 (sec)						20.560
Standard Deviation						1.1%
t-test1 - 2 (sec)						7.276
Standard Deviation						0.1%

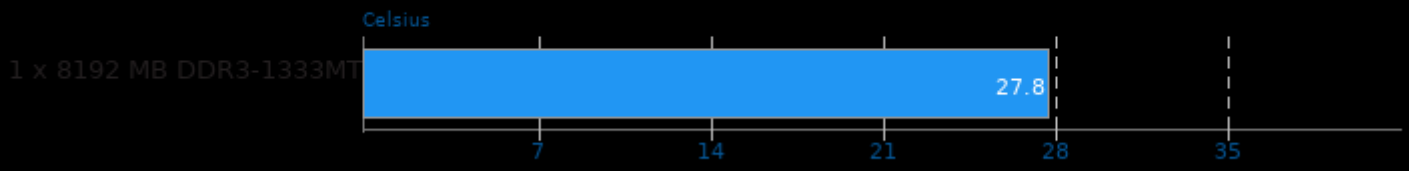
CPU Temperature Monitor

Phoronix Test Suite System Monitoring



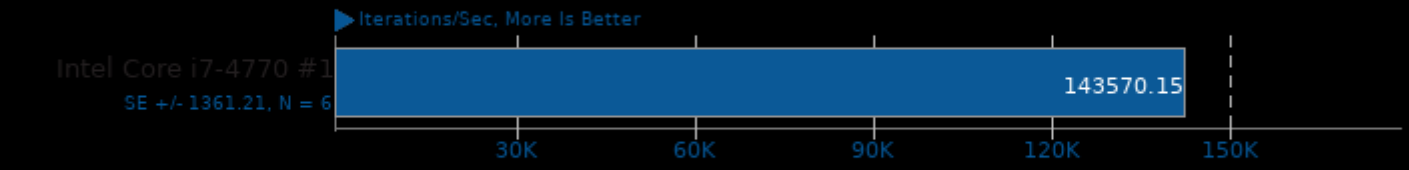
System Temperature Monitor

Phoronix Test Suite System Monitoring



Coremark 1.0

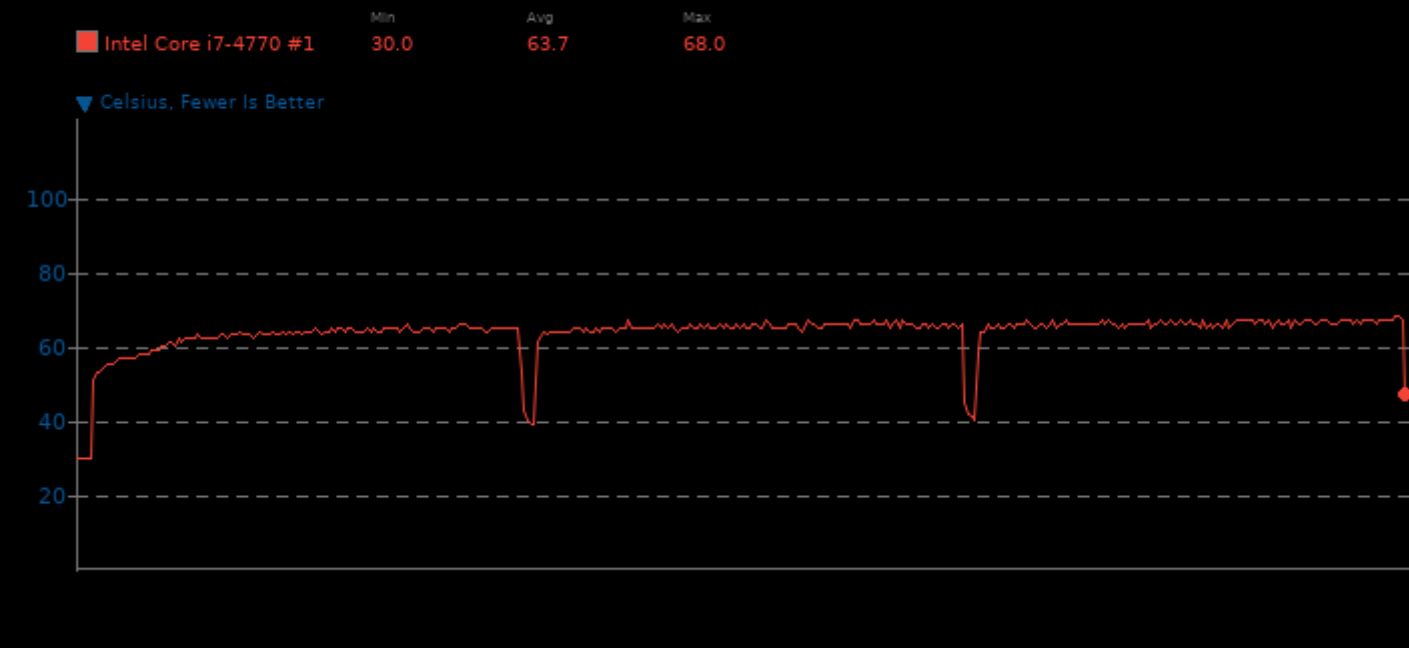
CoreMark Size 666 - Iterations Per Second

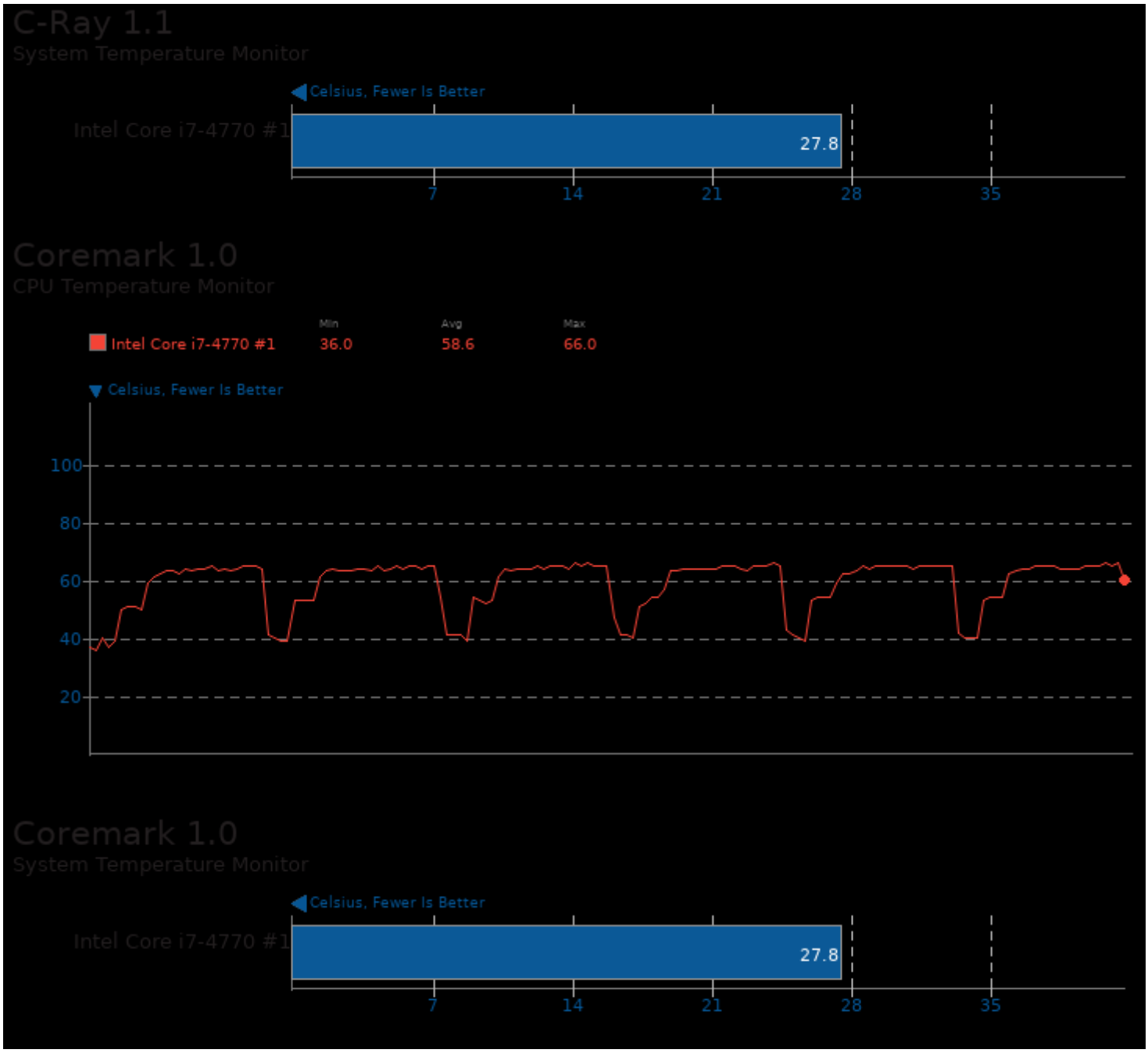


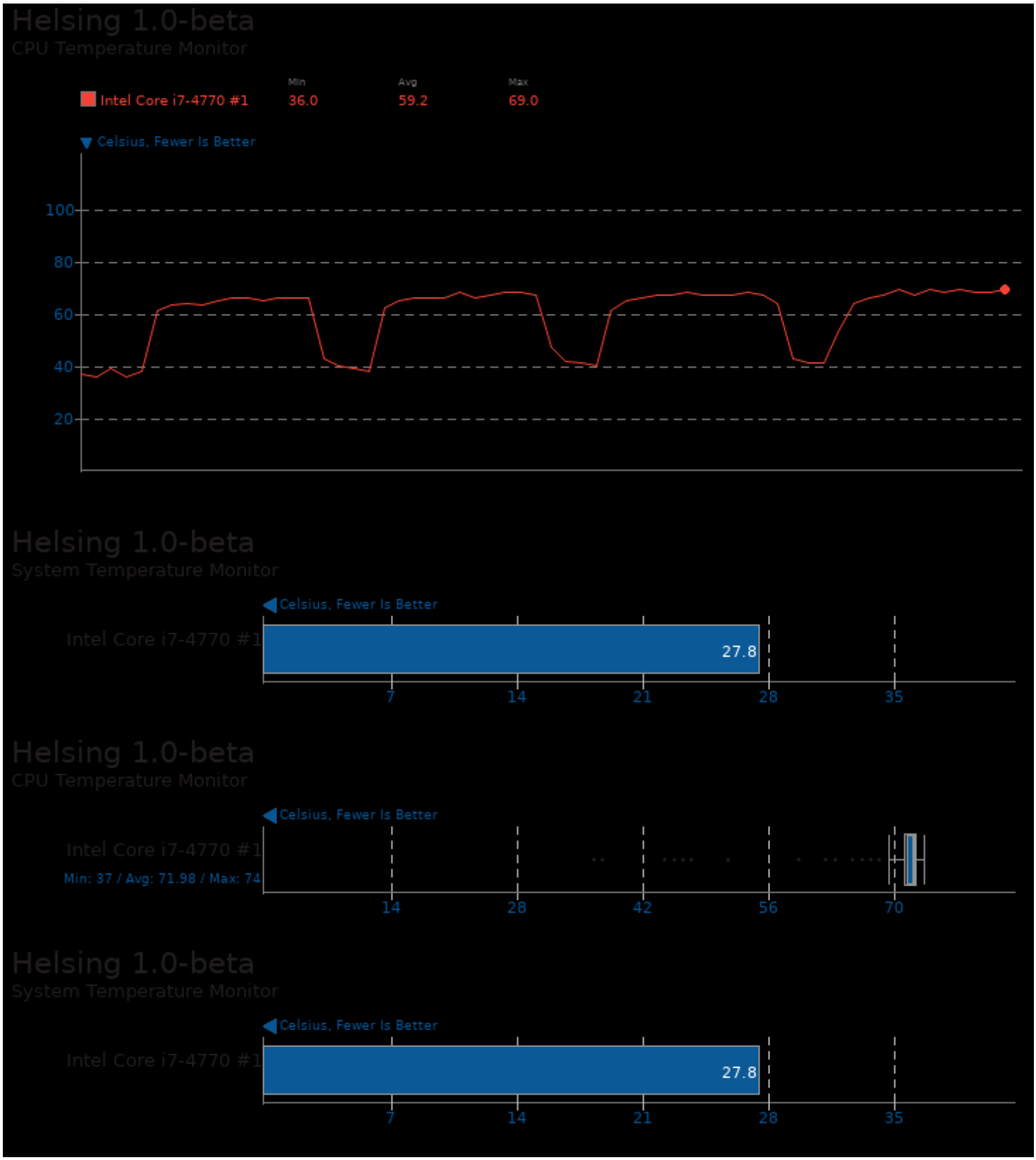
1. (CC) gcc options: -O2 -lrt" -lrt

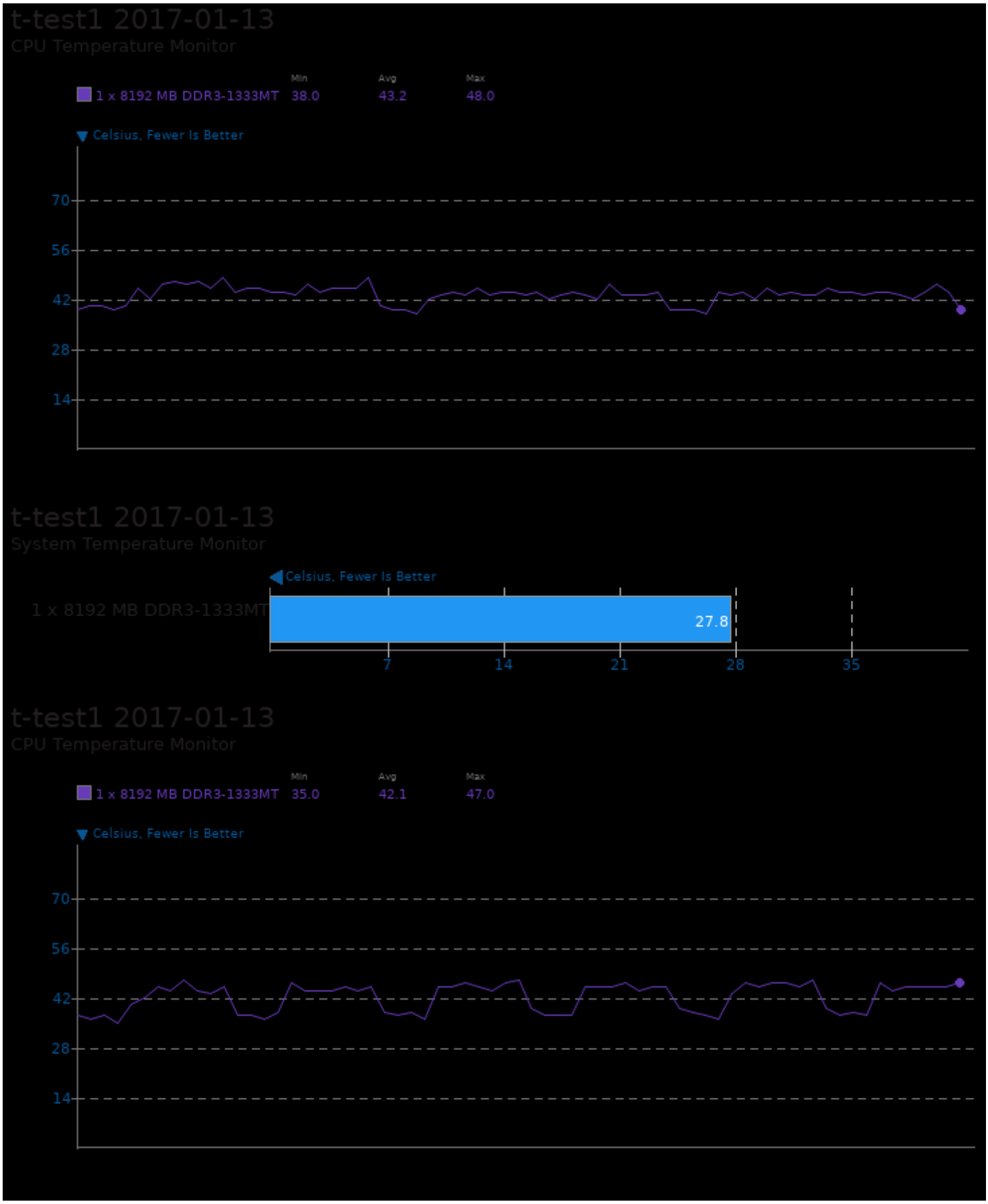
C-Ray 1.1

CPU Temperature Monitor



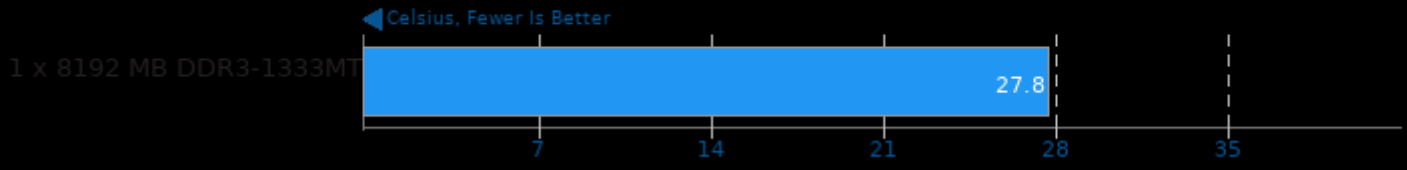

C-Ray 1.1
System Temperature Monitor
Celsius, Fewer Is Better
Intel Core i7-4770 #1
27.8
7
14
21
28
35
Coremark 1.0
CPU Temperature Monitor
Min
Avg
Max
Intel Core i7-4770 #1
36.0
58.6
66.0
Celsius, Fewer Is Better
100
80
60
40
20
Coremark 1.0
System Temperature Monitor
Celsius, Fewer Is Better
Intel Core i7-4770 #1
27.8
7
14
21
28
35


Helsing 1.0-beta
CPU Temperature Monitor
Min
Avg
Max
Intel Core i7-4770 #1
36.0
59.2
69.0
Celsius, Fewer Is Better
100
80
60
40
20
Helsing 1.0-beta
System Temperature Monitor
Celsius, Fewer Is Better
Intel Core i7-4770 #1
27.8
7
14
21
28
35
Helsing 1.0-beta
CPU Temperature Monitor
Celsius, Fewer Is Better
Intel Core i7-4770 #1
Min: 37 / Avg: 71.98 / Max: 74
14
28
42
56
70
Helsing 1.0-beta
System Temperature Monitor
Celsius, Fewer Is Better
Intel Core i7-4770 #1
27.8
7
14
21
28
35


t-test1 2017-01-13
CPU Temperature Monitor
Min
Avg
Max
1 x 8192 MB DDR3-1333MT
38.0
43.2
48.0
Celsius, Fewer Is Better
70
56
42
28
14
t-test1 2017-01-13
System Temperature Monitor
Celsius, Fewer Is Better
1 x 8192 MB DDR3-1333MT
27.8
7
14
21
28
35
t-test1 2017-01-13
CPU Temperature Monitor
Min
Avg
Max
1 x 8192 MB DDR3-1333MT
35.0
42.1
47.0
Celsius, Fewer Is Better
70
56
42
28
14

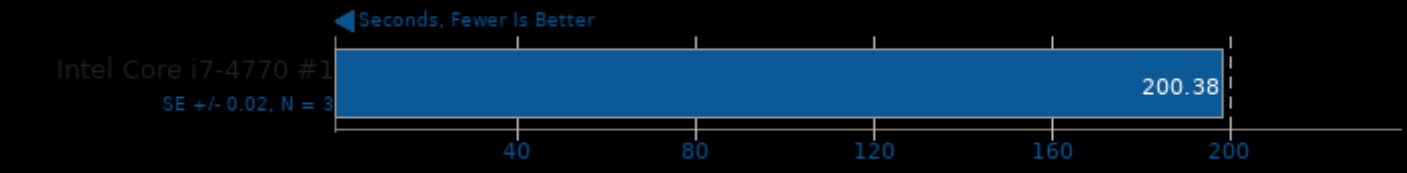
t-test1 2017-01-13

System Temperature Monitor



C-Ray 1.1

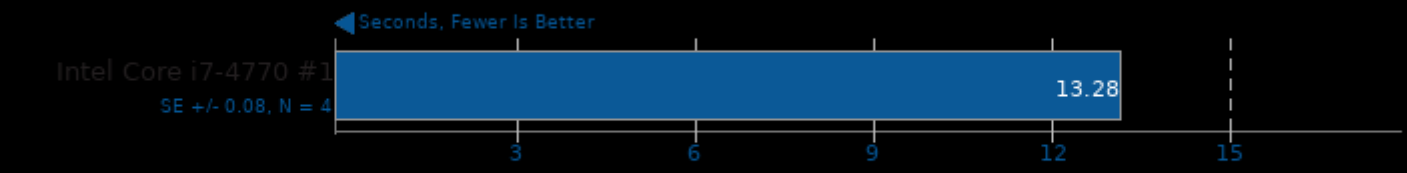
Total Time - 4K, 16 Rays Per Pixel



1. (CC) gcc options: -lm -lpthread -O3

Helsing 1.0-beta

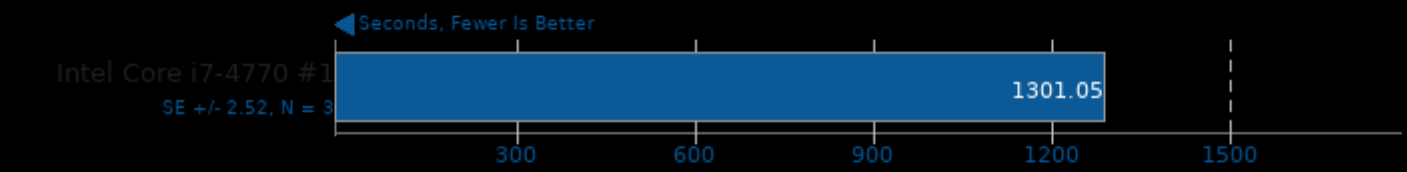
Digit Range: 12 digit



1. (CC) gcc options: -O2 -pthread

Helsing 1.0-beta

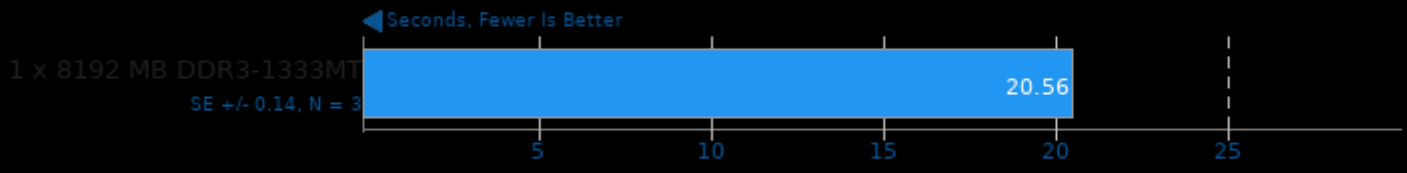
Digit Range: 14 digit



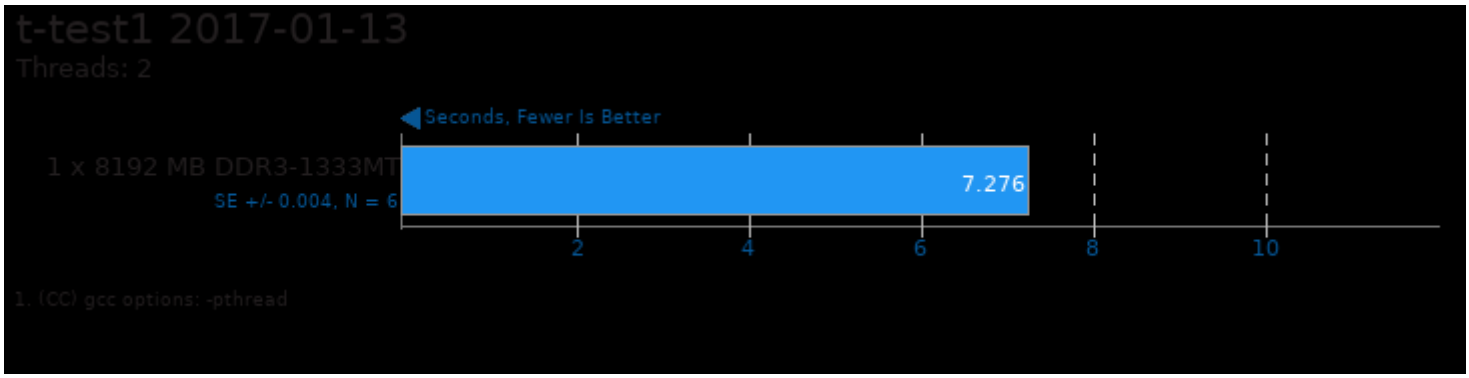
1. (CC) gcc options: -O2 -pthread

t-test1 2017-01-13

Threads: 1



1. (CC) gcc options: -pthread



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