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dell-inspiron-5301

Intel Core i7-1165G7 testing with a Dell 0FW9PR (1.6.1 BIOS) and Intel TigerLake GT2 [Iris Xe] 3GB on Ubuntu 21.04 via the Phoronix Test Suite.

Test Systems:

lz4_1

Intel Core i7-1165G7

Intel Core i7-1165G7 - Intel UHD - Dell 0FW9PR (1.3.3

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.0-051100-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen

Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.disable_power_well=0 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x6e - Thermald 2.3
Python Notes: Python 3.8.6
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Intel Core i7-1165G7 - Intel UHD 3GB - Dell 0FW9PR

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.8.0-44-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.disable_power_well=0 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x6e
Python Notes: Python 3.8.6
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Intel UHD - Intel Core i7-1165G7

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (500MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.8.0-44-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.disable_power_well=0 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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 powersave - CPU Microcode: 0x6e
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

no_thermald default kernel

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.8.0-44-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.disable_power_well=0 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

no_thermald kernel 5.11

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.0-051100-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.disable_power_well=0 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

pstate

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2 + 32GB SD/MMC/MS PRO, Graphics: Intel UHD 3GB (500MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.3-051103-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.disable_power_well=0 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x6e
Python Notes: Python 3.8.6
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

repaste_1

repaste_1_1

repaste_1_heatsink_mod_1

repaste_1_heatsink_mod_1_thremald_2.3

intel-rapl60w

intel-rapl_12w

Intel UHD

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2 + 32GB SD/MMC/MS PRO, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.4-051104-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 21.1.0-devel (git-98a5b9b 2021-03-08 groovy-oibaf-ppa), Vulkan: 1.2.168, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x6e - Thermald 2.4.3
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

new

random

randon1

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2 + 32GB SD/MMC/MS PRO, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.7-051107-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.0 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

bios_1.4

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.4.0 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2 + 32GB SD/MMC/MS PRO, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.7-051107-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.0 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto

--enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

1.4_downgrade

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2 + 32GB SD/MMC/MS PRO, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.7-051107-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.0 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

bios_1.51

bios_1.51_1

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.5.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.10-051110-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 21.0.1 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x78
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

mitigations_off

new_heatsink_1

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.5.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio:

Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.10-051110-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 21.0.1 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x78
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

new_heatsink_2

new_heatsink_3

new_heatsink_3_i8k

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.10-051110-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 21.0.1 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

new_heatsink_3_i8k_1.51

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.5.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Monitor: BenQ 241W, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.10-051110-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 21.0.1 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 2692x2280

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x78
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected +

tsx_async_abort: Not affected

k5.10

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.5.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.10.28-051028-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9 + Wayland, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x78
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

heatsink_4

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.5.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.5-051105-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x78
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

1.61

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2 + 16GB DataTraveler 108, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Monitor: 23MP55 + BenQ 241W, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.14-051114-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2280

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug

--enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

1.61_novo

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (500MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.5-051105-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

1.61_new_griszly

1.61_newpaste

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.5-051105-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

1.33_newpaste

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.5-051105-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

1.33_newpaste_5.10

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.3.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.10.31-051031-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x6e
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

1.61_newpaste_5.10

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.5-051105-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

no_tlp

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.15-051115-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x86
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

notlp

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.5-051105-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

notlp_1

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel UHD 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.15-051115-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.2 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 - 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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

repaste_1_heatsink_mod_2

novo_heat

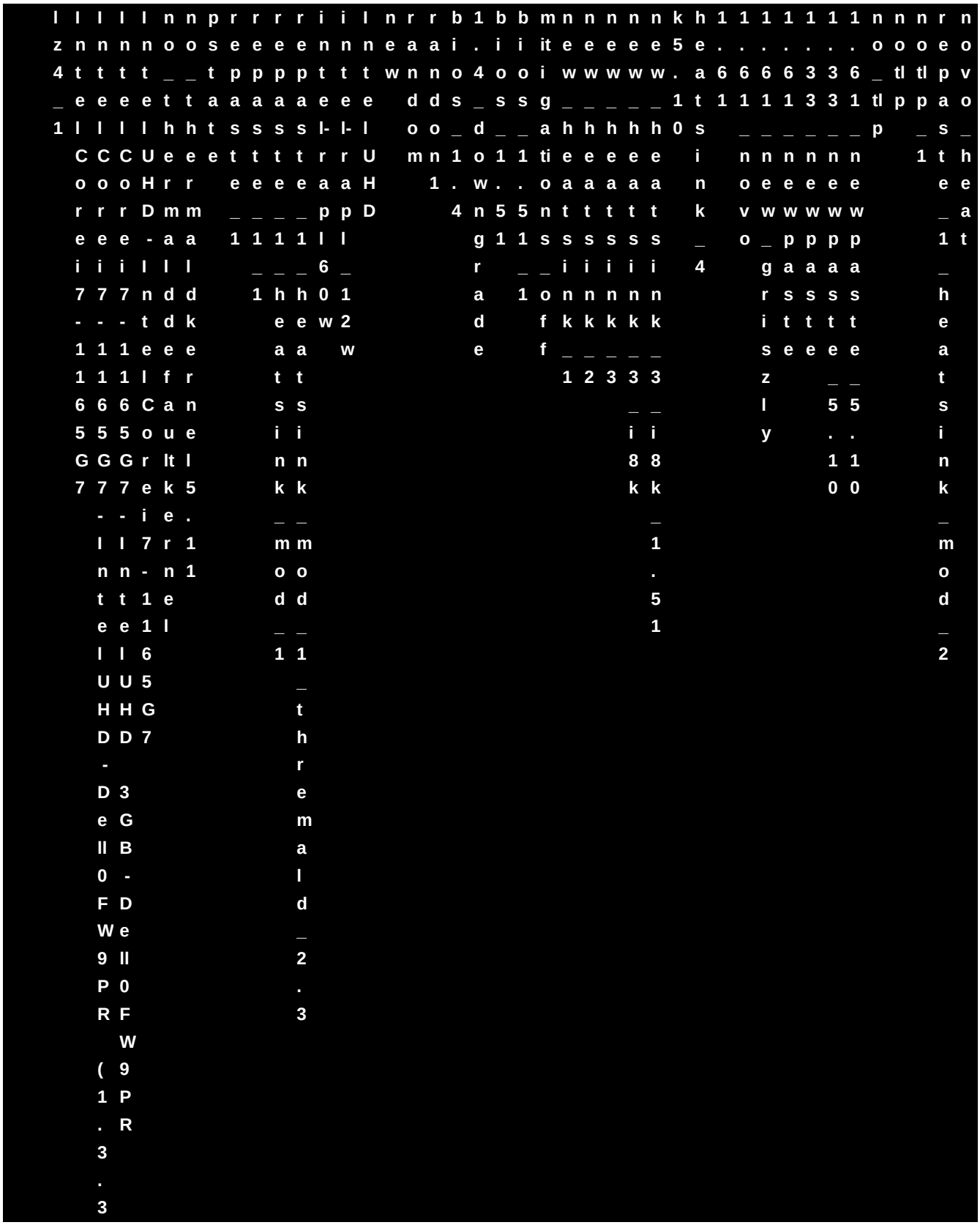
Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0FW9PR (1.6.1 BIOS), Chipset:

dell-inspiron-5301

Intel Tiger Lake-LP, Memory: 8GB, Disk: 1000GB SHGP31-1000GM-2, Graphics: Intel TigerLake GT2 [Iris Xe] 3GB (1300MHz), Audio: Realtek ALC3204, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 21.04, Kernel: 5.12.0-051200-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.0.3 kisak-mesa PPA, Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.fastboot=1 i915.enable_fbc=1 i915.enable_dc=4 i915.enable_guc=3 - Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/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-build-config=bootstrap-lto-lean --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: 0x86
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected


llllnnprrrriilnrrb1bbmnnnnnkh1111111nnnrn
znnnnoosereeennnneaaai.iitewwwwww.a6666336_tltlpeo
4ttttt__tpppppttttwnnoi4ooiwwwww.a6666336_tltlpeo
_eeeettaaaaaeeeedds_ssg_____1t1111331tlppa_o
1lllhhtsssslll-rrUhhhhh0s_____p_s_
CCCUeeettttrrHnnnnn

Tesseract - 1920 x 1200 (FPS)	13.94		
Standard Deviation	0.77%		
Embree - Pathtracer - Crown (FPS)		3.15	
Standard Deviation		0.42%	

dell-inspiron-5301

CoremarkCoreMark Size 666 - I.P.S (Iterations/Sec)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	5	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	0	2	1	0	0	4	1	0	9	9	5	8	8	5	8	8	8
	6	5	7	7	9	8	3	1	2	5	5	6	5	5	6	5	5
	1	3	8	7	2	5	5	3	3	9	5	4	8	5	4	8	5
	5	9	1	6	0	4	3	9	1	5	6	8	6	6	8	6	6
Normalized	7	1	7	7	7	8	7	7	7	7	7	7	7	7	7	7	7
	9	0	9	9	9	1	9	8	8	8	5	7	7	5	7	7	7
	.	0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	0	%	8	1	2	8	5	7	1	4	7	7	7	7	7	7	7
	7		4	8	7	5	5	6	6	%	5	8	4	5	8	4	5
	%		%	%	%	%	%	%	%		%	%	%	%	%	%	%
Standard Deviation	7	2	5	7	9	6	8	1	9	1	2	9	5	2	9	5	3
	.	.	.	.	.	%	.	0	.	1	.	.	%	.	.	%	.
	1	2	9	4	1		7	.	1	.	3	8		3	8		3
	%	%	%	%	%		%	3	%	3	%	%		%	%		%
								%		%							

| | | |

LZ4 Compression - 1 - Compression Speed (MB/s)	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	3	1	3	4	5	3	3	5	4	3	3	5	4	3	3	5	4	3	3	5
	4	9	6	8	2	5	7	5	9	4	9	6	8	2	5	7	5	4	9	6
	5	5	4	2	7	5	6	0	9	5	5	4	2	7	5	6	0	5	5	4
Normalized	9	9	9	9	9	9	9	1	9	9	9	9	9	9	9	9	1	9	9	9
	7	6	8	9	9	7	8	0	9	7	7	8	9	9	7	8	0	8	8	9
	.	.	.	.	.	.	.	0	.	.	.	.	.	.	.	.	0	.	.	.
	8	2	0	2	7	9	1	%	4	8	2	0	2	7	9	1	%	4	8	2
	6	9	6	9	7	6	8		7	6	9	6	9	7	6	8		7	6	9
	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%		%	%	%
Standard Deviation	1	2	0	0	0	1	0	0	0	1	2	0	0	0	1	0	0	0	1	2
	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	1	1	9	4	3	3	9	4	6	1	1	9	4	3	3	9	4	6	1	1
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LZ4 Compression - 1 - D.S (MB/s)	1	6	1	1	1	1	1	1	1	1	6	1	1	1	1	1	1	1	1	1
	0	7	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
	3	6	2	3	4	3	2	4	4	3	6	2	3	4	3	2	4	4	3	4
	3	1	6	9	1	0	8	3	1	3	1	6	9	1	0	8	3	1	3	1
	3		3	4	8	6	4	6	1	3		3	4	8	6	4	6	1	3	1
Normalized	9	6	9	9	9	9	9	1	9	9	6	9	9	9	9	9	1	9	9	9
	9	4	8	9	9	8	8	0	9	9	4	8	9	9	8	8	0	9	9	9
	.	.	.	.	.	.	.	0	.	.	.	.	.	.	.	.	0	.	.	.
	0	7	3	6	8	7	5	%	7	0	7	3	6	8	7	5	%	7	0	7
	1	9	4	%	2	6	4		5	1	9	4	%	2	6	4		5	1	9
	%	%	%		%	%	%		%	%	%	%		%	%	%		%	%	%
Standard Deviation	0	8	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
	.	4	.	.	%	.	.	.	.	.	4	.	.	%	.	.	.	.	.	.
	6	%	5	2		7	8	3	2	6	%	5	2		7	8	3	2	6	4
	%		%	%		%	%	%	%	%		%	%		%	%	%	%	%	%

LZ4 Compression - 3 - Compression Speed (MB/s)	4	2	.	9	4	4	9	.	5	7	0	3	5	2	.	9	1	4	6	.	7	0	5	9
Normalized	8	1	.	1	6	%	9	3	.	6	9	%	8	8	.	8	%	8	8	.	3	6	%	2	%
Standard Deviation	0	7	%				1	4	%				0	3	%			1	0	.	3	7	%		%
LZ4 Compression - 3 - D.S (MB/s)	9	7	4	7			9	9	9	7			1	0	0	8		9	7	8	7				
Normalized	9	7	.	4	%		9	9	.	8	9	%	1	0	0			9	7	.	7	9	%		
Standard Deviation	0	.	1	%			0	.	3	%			0	.	3	%		0	.	5	%				

LZ4 Compression - 9 - Compression Speed (MB/s)	41.66	53.46	50.77	44.54
Normalized	77.93%	108.04%	94.73%	88.52%
Standard Deviation	0.69%	1.13%	3.94%	0.44%
LZ4 Compression - 9 - D.S (MB/s)	972.82	1004.52	980.85	957.61
Normalized	97.28%	100.45%	98.08%	95.76%
Standard Deviation	0.28%	0.63%	0.26%	0.36%

Zstd Compression - 3 - Compression Speed (MB/s)	7 7 1 . 7
Standard Deviation	2 . 1 %
Zstd Compression - 3 - D.S (MB/s)	2 9 6 6
Standard Deviation	1 . 5 %

Zstd Compression - 8 - Compression Speed (MB/s)	149.3
Standard Deviation	0.3%
Zstd Compression - 8 - D.S (MB/s)	309.9
Standard Deviation	0.6%

Zstd Compression - 19 - Compression Speed (MB	1 0 . 2 3
Standard Deviation	0 . 4 %
Zstd Compression - 19 - D.S (MB	2 7 3 9
Standard Deviation	1 . 6 %

Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	5 1 4 . 5
Standard Deviation	0 . 6 %

Zstd Compression - 3, Long Mode - D.S (MB/s)	
	3
	2
	1
	0
Standard Deviation	0.8%

Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	156.1
Standard Deviation	0.6%

Zstd Compression - 8, Long Mode - D.S (MB/s)	3 2 6 7
Standard Deviation	0 . 8 %

Zstd Compression - 19, Long Mode - Compression Speed (MB	8.63	
Standard Deviation	1	%

| | | |

7-Zip Compression - C.S.T (MI		2
		1
		5
		1
		1
Standard Deviation		9 . 1 %
Etcpak - DXT1 (Mpx/s)	1 5 1 3	
Standard Deviation	0 %	
Etcpak - ETC1 (Mpx/s)	3 4 9 . 4 7 1	
Standard Deviation	1 . 7 %	

Etcpak - ETC2 (Mpx/s)	1 9 9 . 3 3 5	
Standard Deviation	1 %	
Etcpak - ETC1 + Dithering (Mpx/s)	3 3 0 . 0 9 5	
Standard Deviation	0 . 5 %	
GLmark2 - 1920 x 1080 (Score)		1 0 5 7

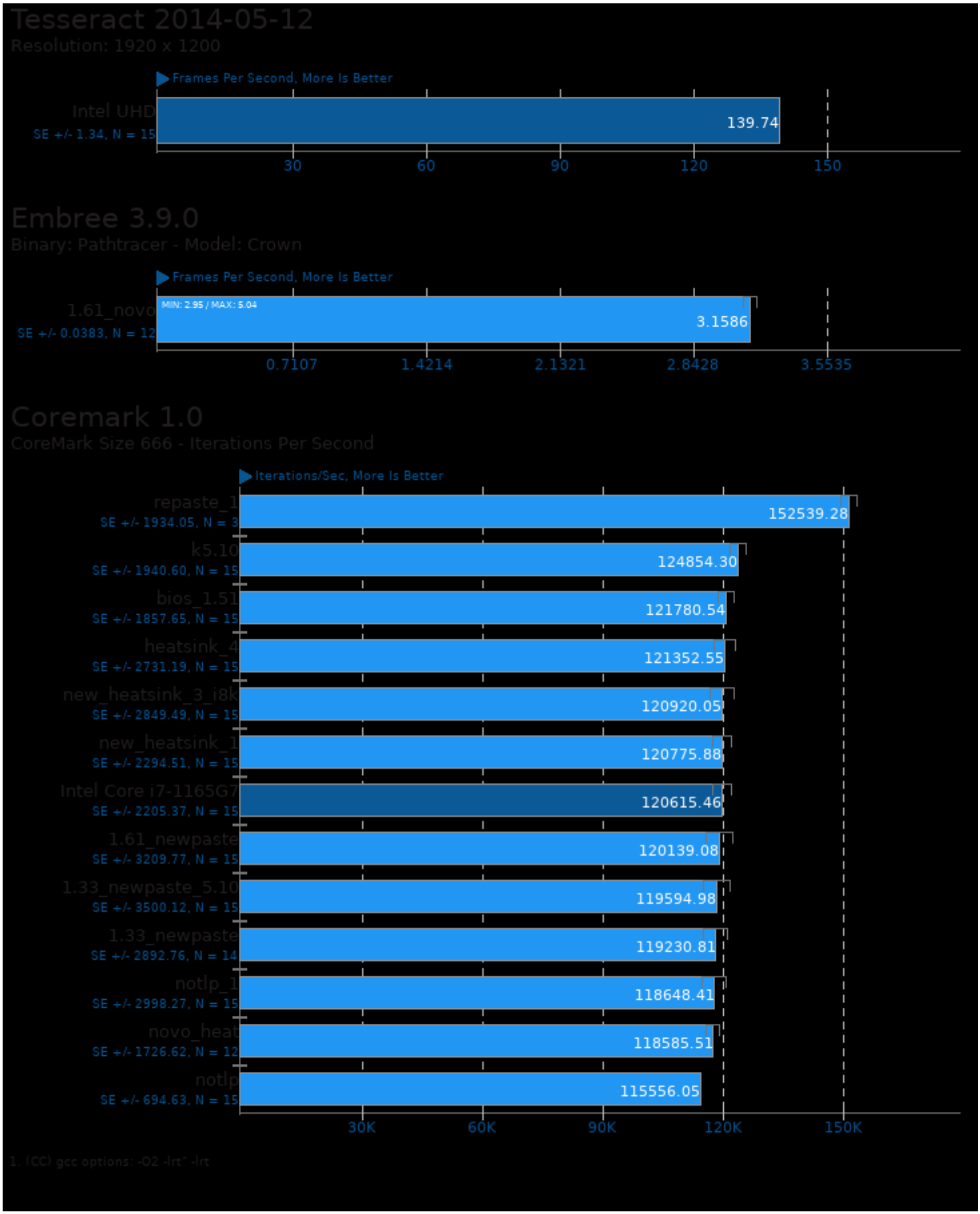
WebP Image Encode - Default (Encode Time - sec	1.403
Standard Deviation	0.5%

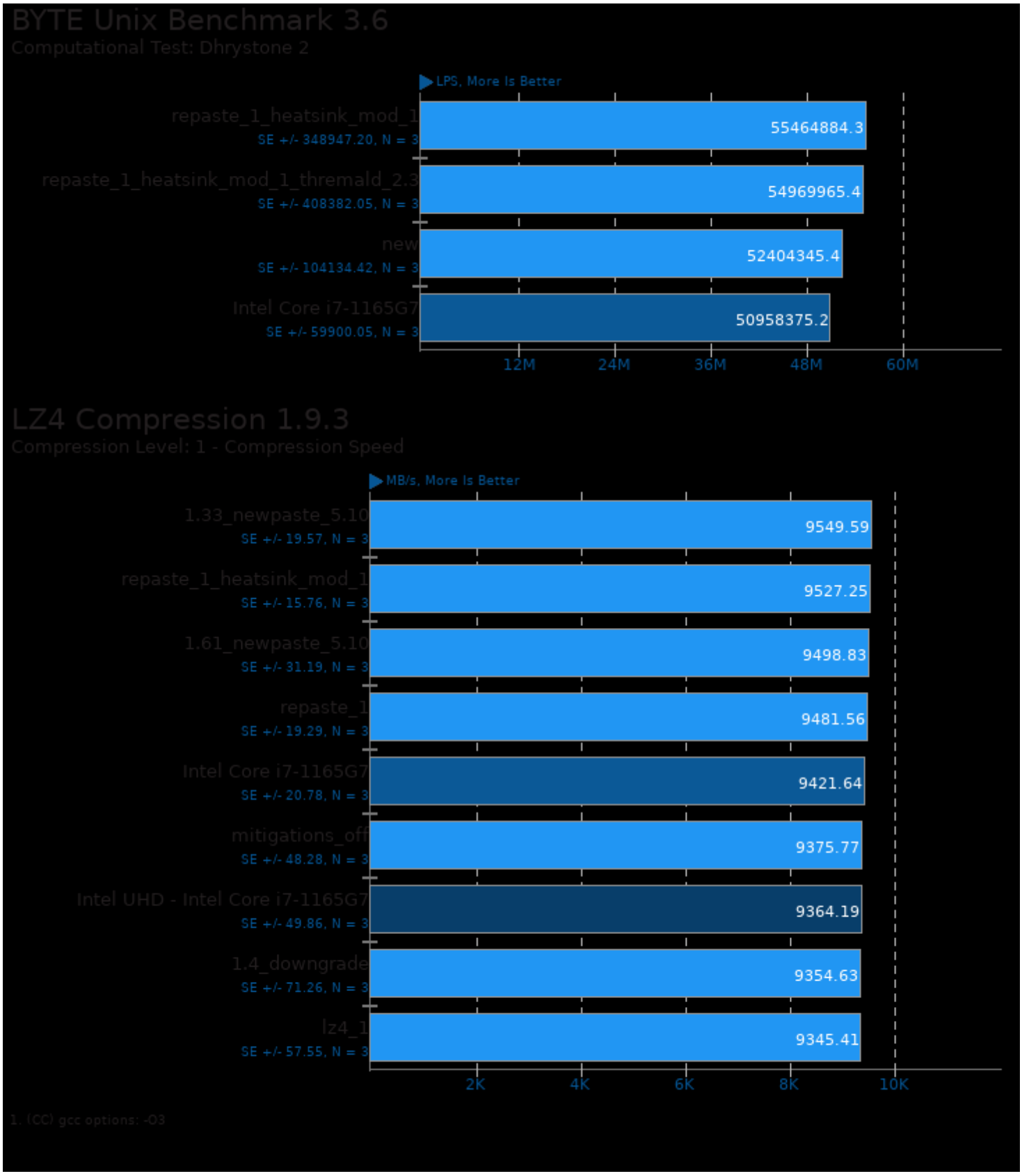
WebP Image Encode - Quality 100 (Encode Time - Standard Deviation %	2.16

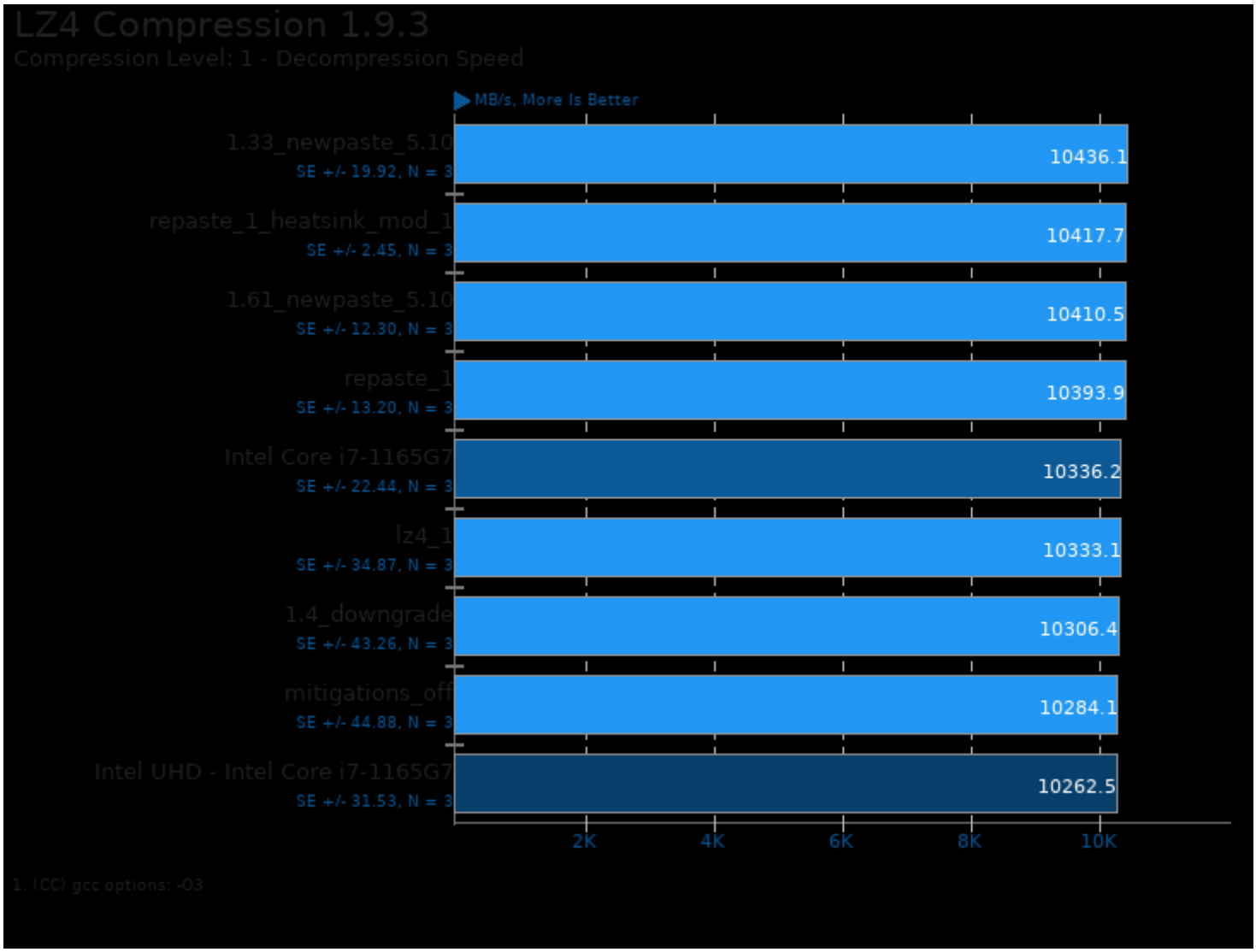
WebP Image Encode - Q.1 .L (Encode Time - sec	1 7 . 4 3 7
Standard Deviation	1 %

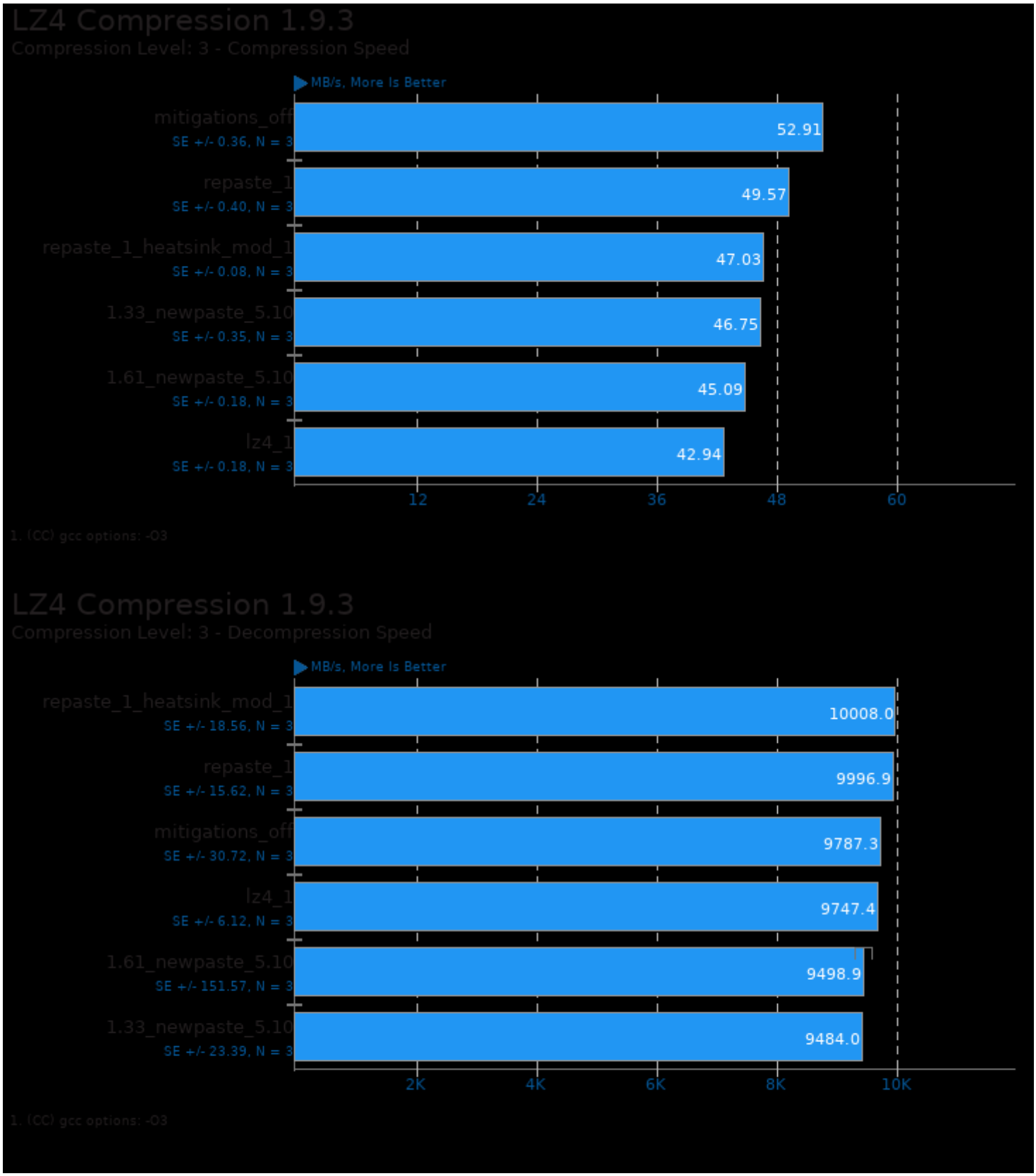
| | | |

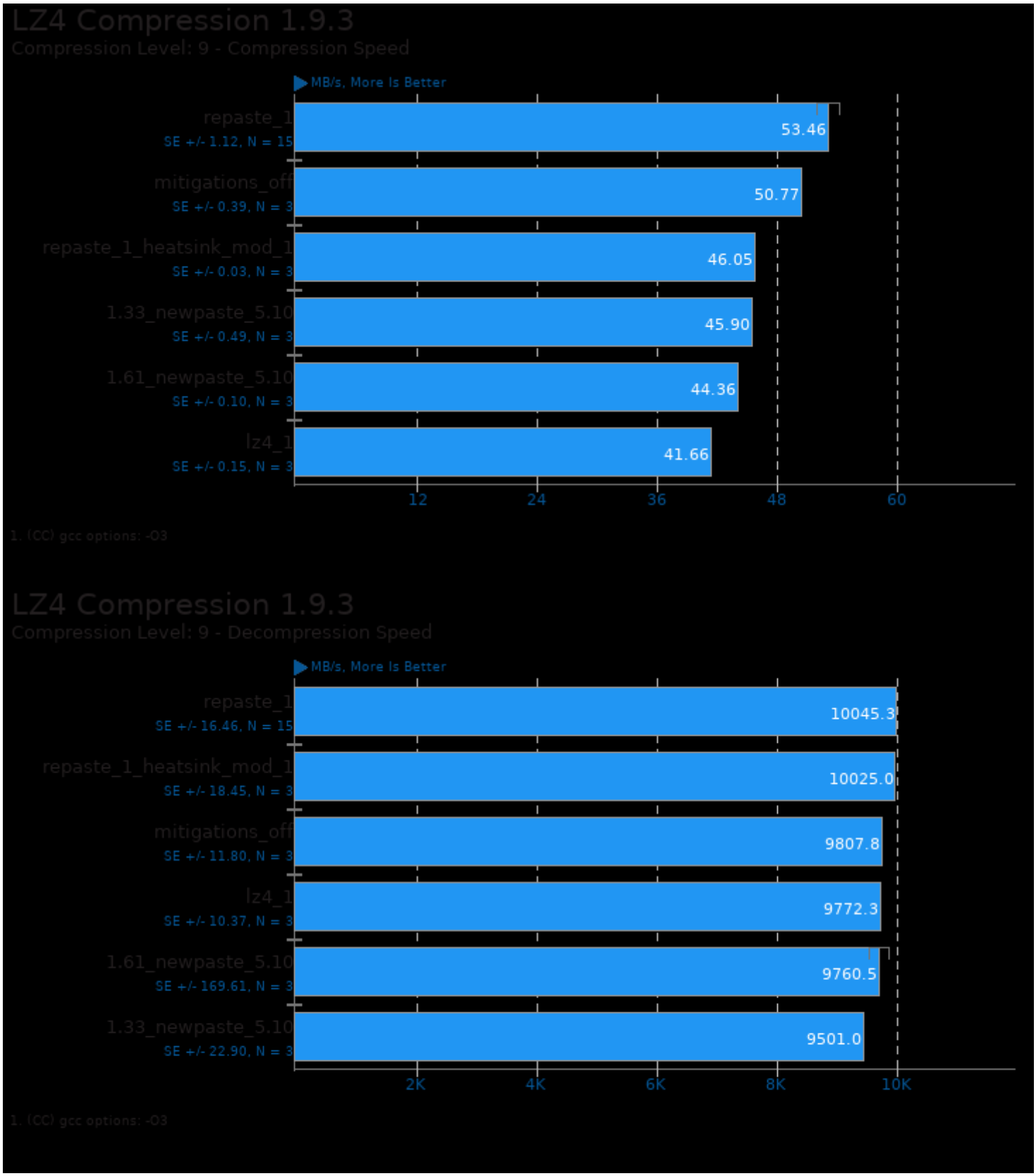
SQLite - 1 (sec)	1 1 . 7 8 4
Standard Deviation	0 . 4 %
SQLite - 8 (sec)	4 0 . 4 6 5
Standard Deviation	2 . 4 %


Tesseract 2014-05-12
Resolution: 1920 x 1200
Frames Per Second, More Is Better
Intel UHD
SE +/- 1.34, N = 15
139.74
30
60
90
120
150
Embree 3.9.0
Binary: Pathtracer - Model: Crown
Frames Per Second, More Is Better
1.61_novo
SE +/- 0.0383, N = 12
MIN: 2.95 / MAX: 5.04
3.1586
0.7107
1.4214
2.1321
2.8428
3.5535
Coremark 1.0
CoreMark Size 666 - Iterations Per Second
Iterations/Sec, More Is Better
repaste_1
SE +/- 1934.05, N = 3
152539.28
k5.10
SE +/- 1940.60, N = 15
124854.30
bios_1.51
SE +/- 1857.65, N = 15
121780.54
heatsink_4
SE +/- 2731.19, N = 15
121352.55
new_heatsink_3_i8k
SE +/- 2849.49, N = 15
120920.05
new_heatsink_1
SE +/- 2294.51, N = 15
120775.88
Intel Core i7-1165G7
SE +/- 2205.37, N = 15
120615.46
1.61_newpaste
SE +/- 3209.77, N = 15
120139.08
1.33_newpaste_5.10
SE +/- 3500.12, N = 15
119594.98
1.33_newpaste
SE +/- 2892.76, N = 14
119230.81
notlp_1
SE +/- 2998.27, N = 15
118648.41
novo_heat
SE +/- 1726.62, N = 12
118585.51
notlp
SE +/- 694.63, N = 15
115556.05
30K
60K
90K
120K
150K
1. (CC) gcc options: -O2 -lrt" -lrt


BYTE Unix Benchmark 3.6
Computational Test: Dhrystone 2
LPS, More Is Better
repaste_1_heatsink_mod_1
SE +/- 348947.20, N = 3
55464884.3
repaste_1_heatsink_mod_1_thremald_2.3
SE +/- 408382.05, N = 3
54969965.4
new
SE +/- 104134.42, N = 3
52404345.4
Intel Core i7-1165G7
SE +/- 59900.05, N = 3
50958375.2
12M
24M
36M
48M
60M
LZ4 Compression 1.9.3
Compression Level: 1 - Compression Speed
MB/s, More Is Better
1.33_newpaste_5.10
SE +/- 19.57, N = 3
9549.59
repaste_1_heatsink_mod_1
SE +/- 15.76, N = 3
9527.25
1.61_newpaste_5.10
SE +/- 31.19, N = 3
9498.83
repaste_1
SE +/- 19.29, N = 3
9481.56
Intel Core i7-1165G7
SE +/- 20.78, N = 3
9421.64
mitigations_off
SE +/- 48.28, N = 3
9375.77
Intel UHD - Intel Core i7-1165G7
SE +/- 49.86, N = 3
9364.19
1.4_downgrade
SE +/- 71.26, N = 3
9354.63
lz4_1
SE +/- 57.55, N = 3
9345.41
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3

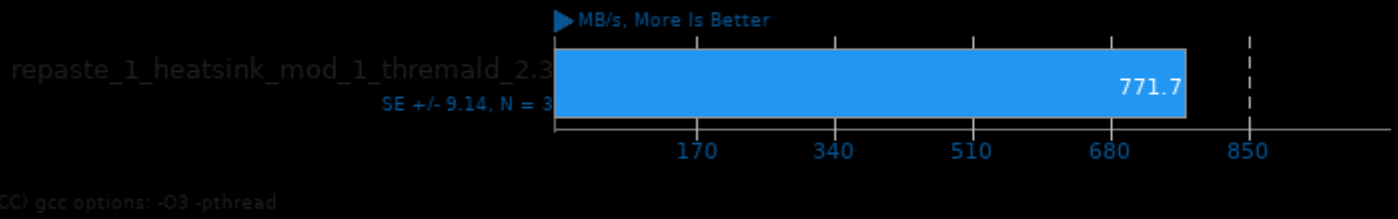

LZ4 Compression 1.9.3
Compression Level: 1 - Decompression Speed
MB/s, More Is Better
1.33_newpaste_5.10
SE +/- 19.92, N = 3
10436.1
repaste_1_heatsink_mod_1
SE +/- 2.45, N = 3
10417.7
1.61_newpaste_5.10
SE +/- 12.30, N = 3
10410.5
repaste_1
SE +/- 13.20, N = 3
10393.9
Intel Core i7-1165G7
SE +/- 22.44, N = 3
10336.2
lz4_1
SE +/- 34.87, N = 3
10333.1
1.4_downgrade
SE +/- 43.26, N = 3
10306.4
mitigations_off
SE +/- 44.88, N = 3
10284.1
Intel UHD - Intel Core i7-1165G7
SE +/- 31.53, N = 3
10262.5
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3


LZ4 Compression 1.9.3
Compression Level: 3 - Compression Speed
MB/s, More Is Better
mitigations_off
SE +/- 0.36, N = 3
52.91
repaste_1
SE +/- 0.40, N = 3
49.57
repaste_1_heatsink_mod_1
SE +/- 0.08, N = 3
47.03
1.33_newpaste_5.10
SE +/- 0.35, N = 3
46.75
1.61_newpaste_5.10
SE +/- 0.18, N = 3
45.09
lz4_1
SE +/- 0.18, N = 3
42.94
12
24
36
48
60
1. (CC) gcc options: -O3
LZ4 Compression 1.9.3
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
repaste_1_heatsink_mod_1
SE +/- 18.56, N = 3
10008.0
repaste_1
SE +/- 15.62, N = 3
9996.9
mitigations_off
SE +/- 30.72, N = 3
9787.3
lz4_1
SE +/- 6.12, N = 3
9747.4
1.61_newpaste_5.10
SE +/- 151.57, N = 3
9498.9
1.33_newpaste_5.10
SE +/- 23.39, N = 3
9484.0
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3


LZ4 Compression 1.9.3
Compression Level: 9 - Compression Speed
MB/s, More Is Better
repaste_1
SE +/- 1.12, N = 15
53.46
mitigations_off
SE +/- 0.39, N = 3
50.77
repaste_1_heatsink_mod_1
SE +/- 0.03, N = 3
46.05
1.33_newpaste_5.10
SE +/- 0.49, N = 3
45.90
1.61_newpaste_5.10
SE +/- 0.10, N = 3
44.36
lz4_1
SE +/- 0.15, N = 3
41.66
12
24
36
48
60
1. (CC) gcc options: -O3
LZ4 Compression 1.9.3
Compression Level: 9 - Decompression Speed
MB/s, More Is Better
repaste_1
SE +/- 16.46, N = 15
10045.3
repaste_1_heatsink_mod_1
SE +/- 18.45, N = 3
10025.0
mitigations_off
SE +/- 11.80, N = 3
9807.8
lz4_1
SE +/- 10.37, N = 3
9772.3
1.61_newpaste_5.10
SE +/- 169.61, N = 3
9760.5
1.33_newpaste_5.10
SE +/- 22.90, N = 3
9501.0
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3

Zstd Compression 1.4.9

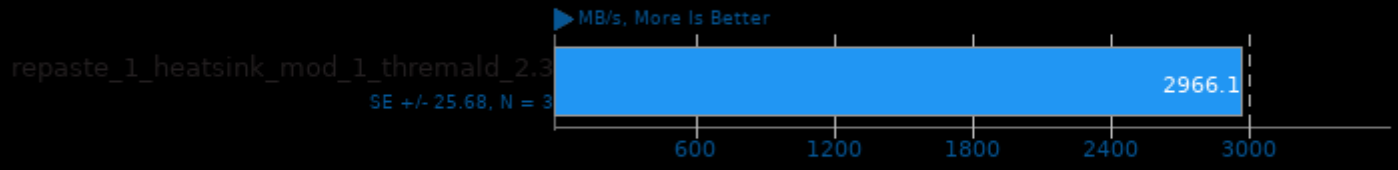
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

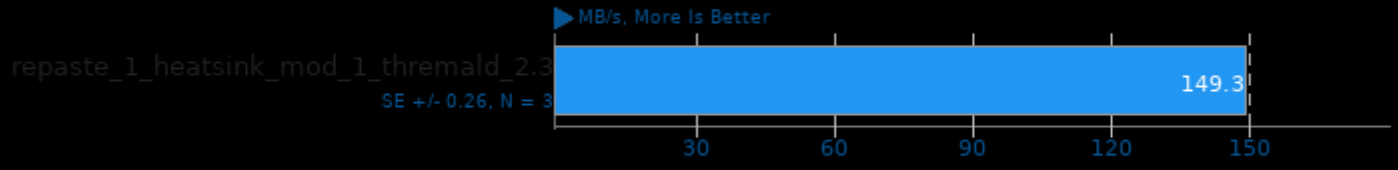
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

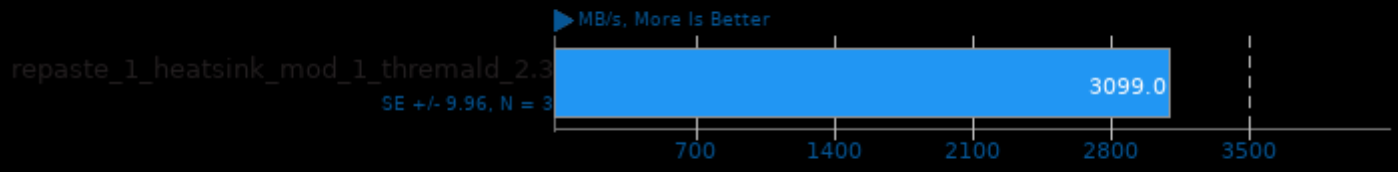
Compression Level: 8 - Compression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

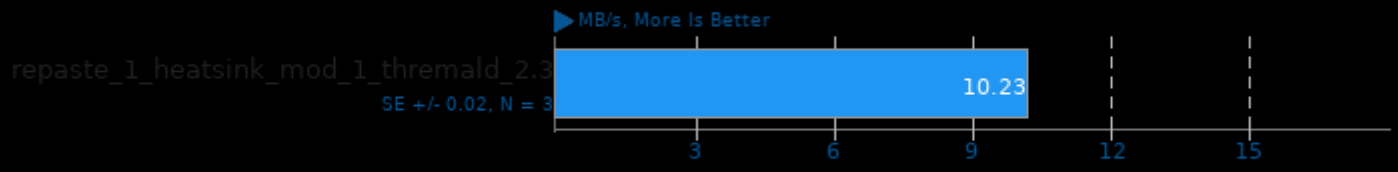
Compression Level: 8 - Decompression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

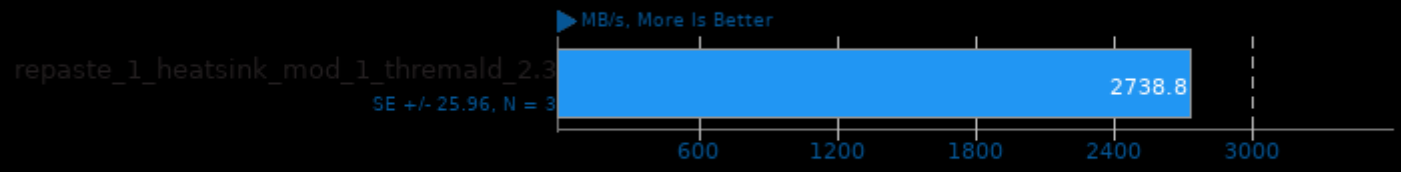
Compression Level: 19 - Compression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

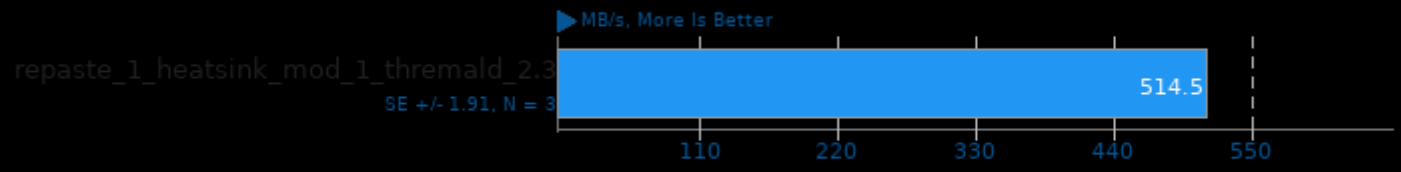
Compression Level: 19 - Decompression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

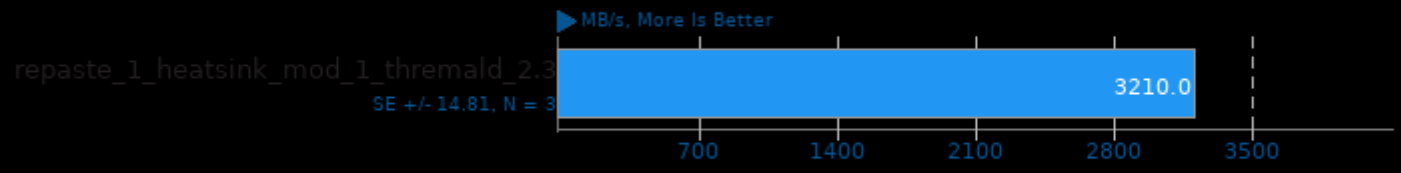
Compression Level: 3, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

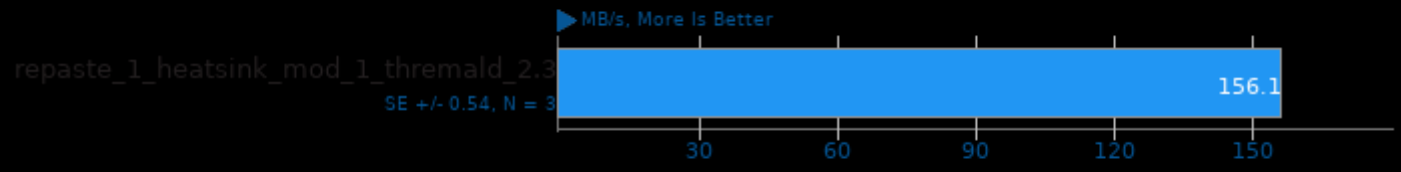
Compression Level: 3, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

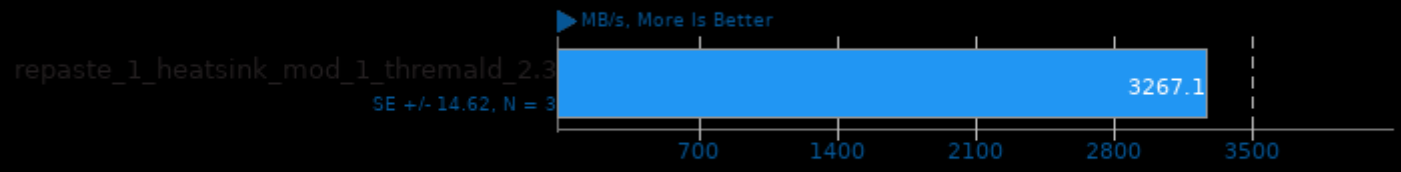
Compression Level: 8, Long Mode - Compression Speed



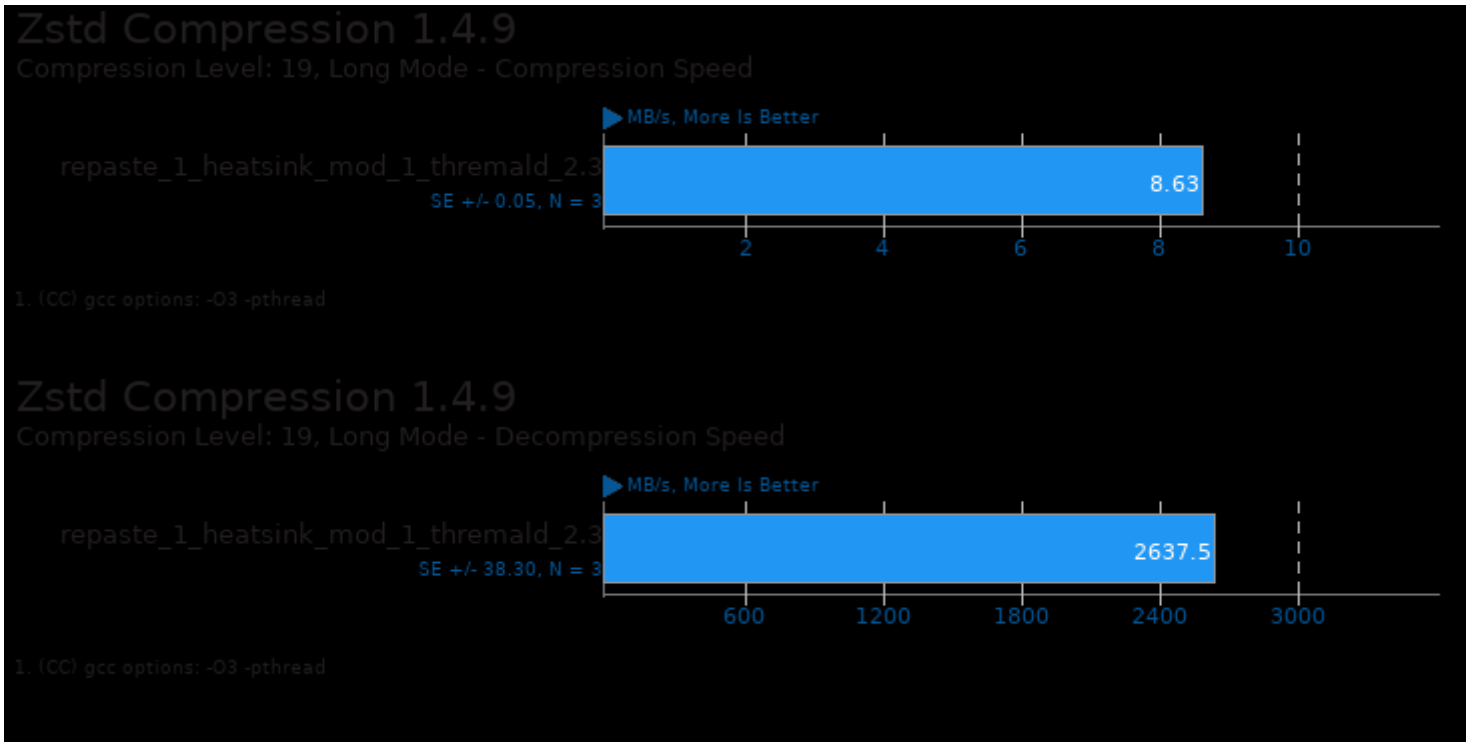
1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9

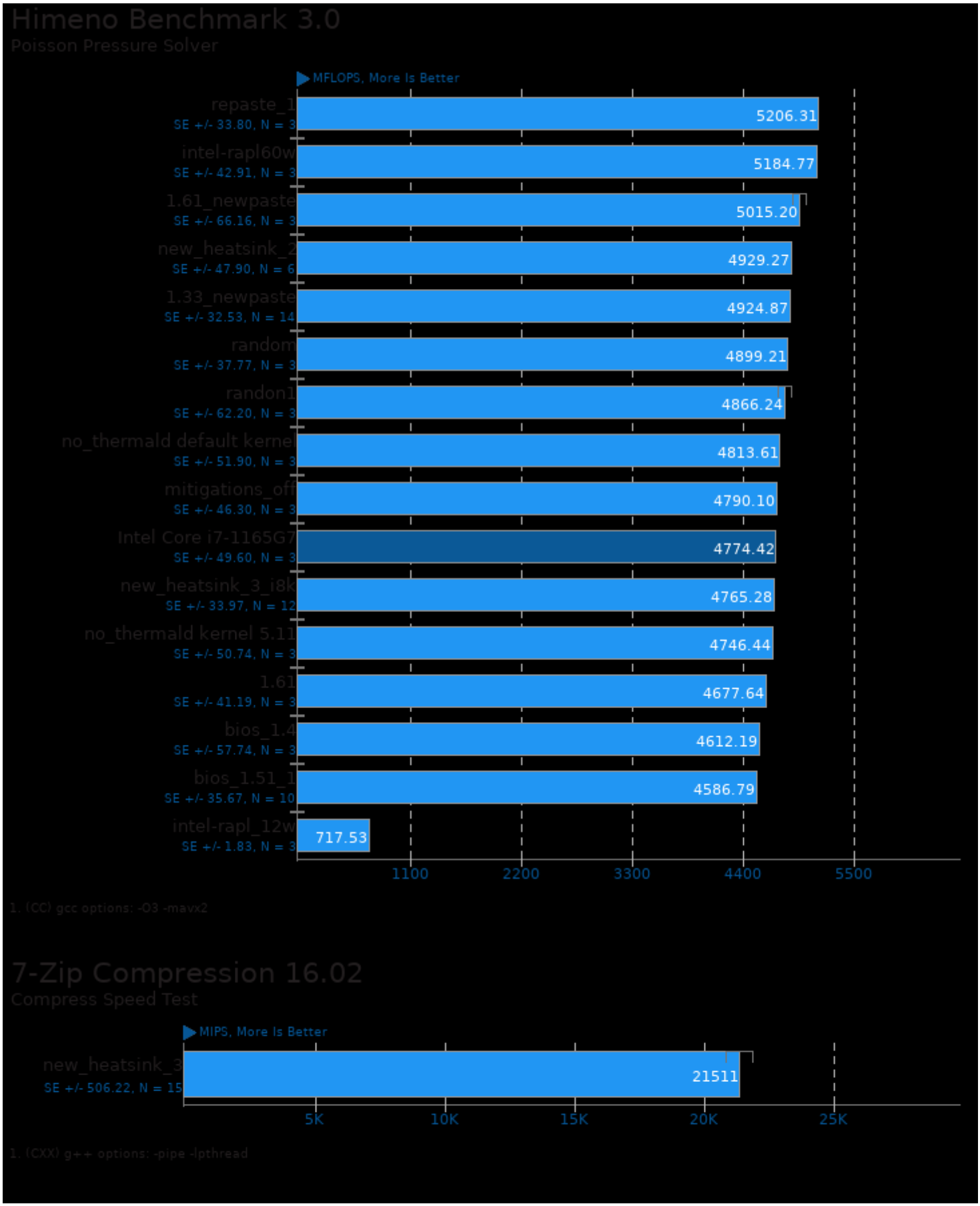
Compression Level: 8, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread

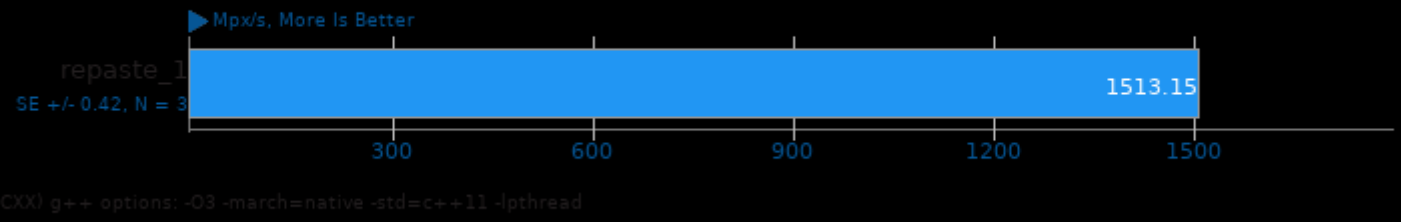

Zstd Compression 1.4.9
Compression Level: 19, Long Mode - Compression Speed
MB/s, More Is Better
repaste_1_heatsink_mod_1_thremald_2.3
SE +/- 0.05, N = 3
8.63
2
4
6
8
10
1. (CC) gcc options: -O3 -pthread

Zstd Compression 1.4.9
Compression Level: 19, Long Mode - Decompression Speed
MB/s, More Is Better
repaste_1_heatsink_mod_1_thremald_2.3
SE +/- 38.30, N = 3
2637.5
600
1200
1800
2400
3000
1. (CC) gcc options: -O3 -pthread


Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
repaste_1
SE +/- 33.80, N = 3
5206.31
intel-rapl60w
SE +/- 42.91, N = 3
5184.77
1.61_newpaste
SE +/- 66.16, N = 3
5015.20
new_heatsink_2
SE +/- 47.90, N = 6
4929.27
1.33_newpaste
SE +/- 32.53, N = 14
4924.87
random
SE +/- 37.77, N = 3
4899.21
random1
SE +/- 62.20, N = 3
4866.24
no_thermald default kernel
SE +/- 51.90, N = 3
4813.61
mitigations_off
SE +/- 46.30, N = 3
4790.10
Intel Core i7-1165G7
SE +/- 49.60, N = 3
4774.42
new_heatsink_3_i8k
SE +/- 33.97, N = 12
4765.28
no_thermald kernel 5.11
SE +/- 50.74, N = 3
4746.44
1.61
SE +/- 41.19, N = 3
4677.64
bios_1.4
SE +/- 57.74, N = 3
4612.19
bios_1.51_1
SE +/- 35.67, N = 10
4586.79
intel-rapl_12w
SE +/- 1.83, N = 3
717.53
1100
2200
3300
4400
5500
1. (CC) gcc options: -O3 -mavx2
7-Zip Compression 16.02
Compress Speed Test
MIPS, More Is Better
new_heatsink_3
SE +/- 506.22, N = 15
21511
5K
10K
15K
20K
25K
1. (CXX) g++ options: -pipe -lpthread

Etcpak 0.7

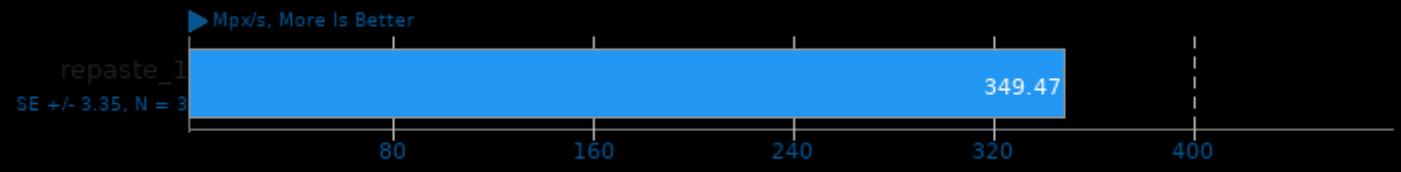
Configuration: DXT1



1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

Etcpak 0.7

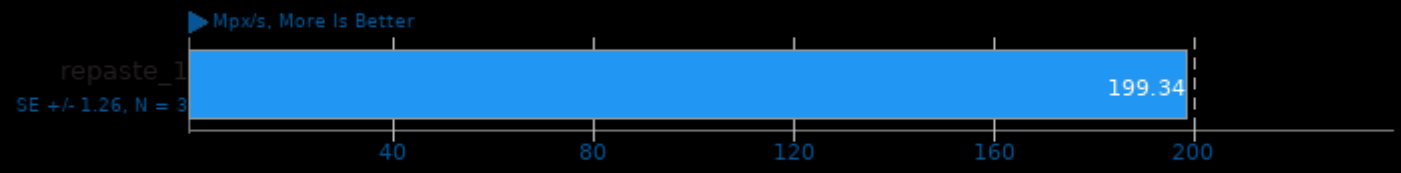
Configuration: ETC1



1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

Etcpak 0.7

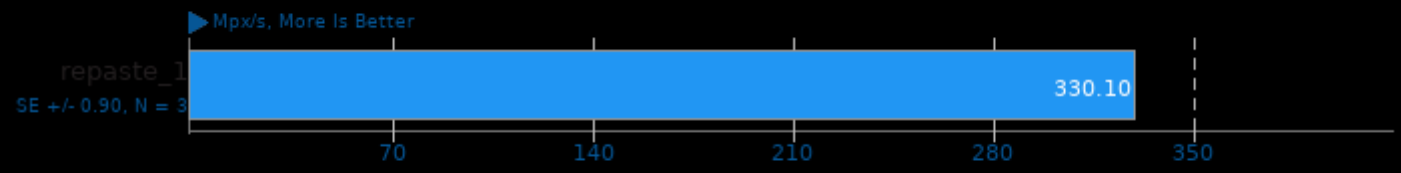
Configuration: ETC2



1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

Etcpak 0.7

Configuration: ETC1 + Dithering

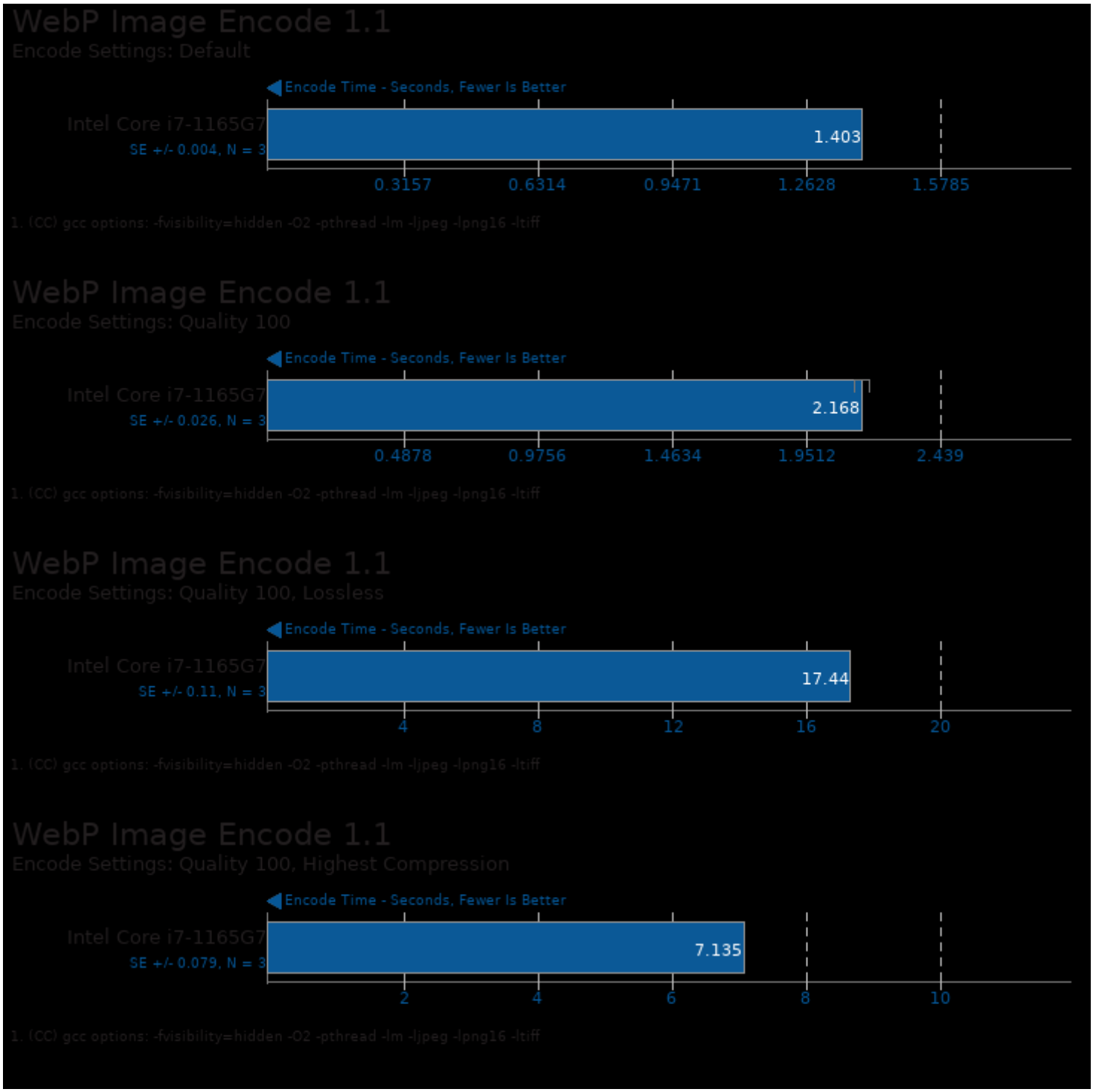


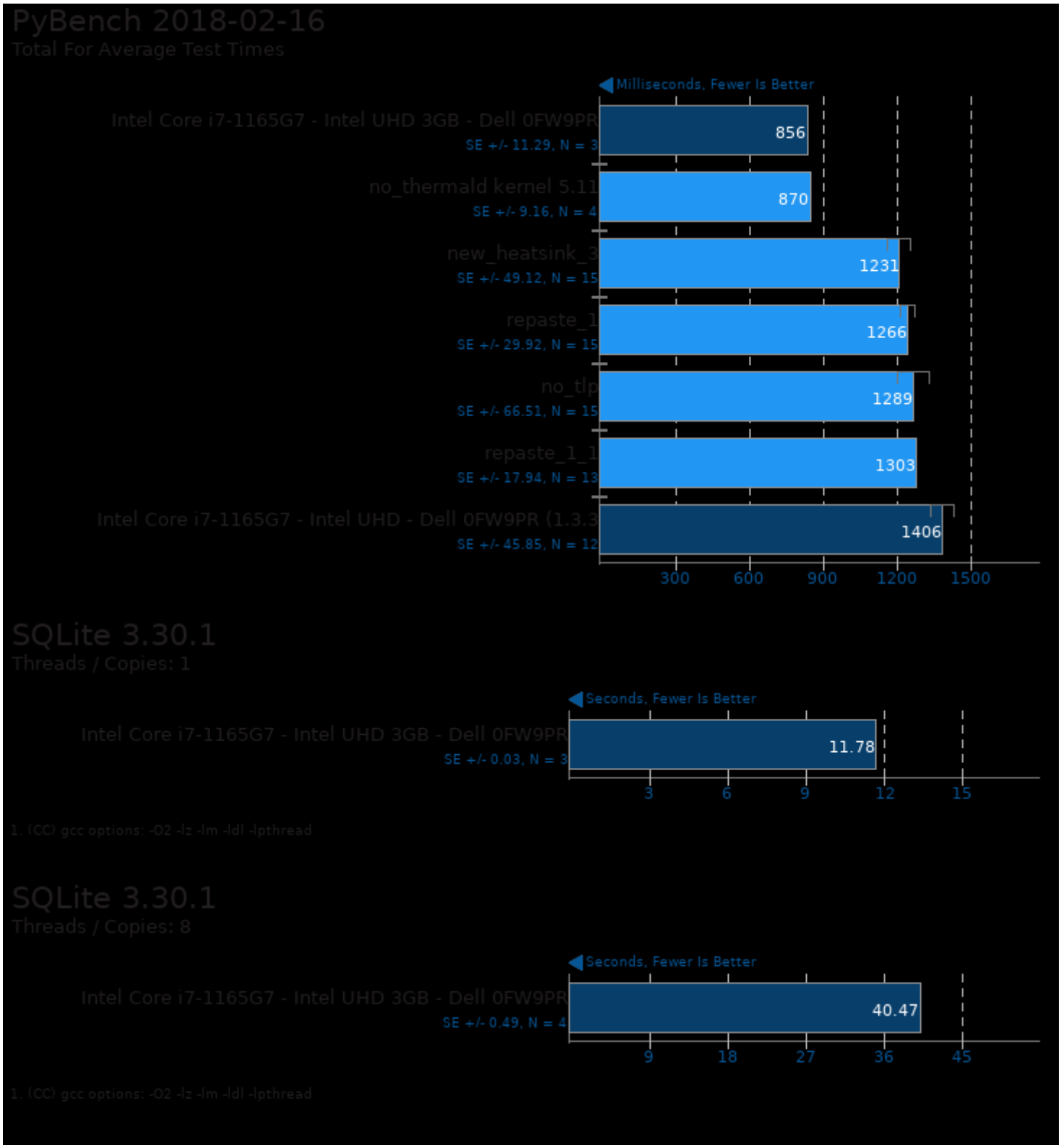
1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

GLmark2 2020.04

Resolution: 1920 x 1080




WebP Image Encode 1.1
Encode Settings: Default
Encode Time - Seconds, Fewer Is Better
Intel Core i7-1165G7
SE +/- 0.004, N = 3
1.403
0.3157
0.6314
0.9471
1.2628
1.5785
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff
WebP Image Encode 1.1
Encode Settings: Quality 100
Encode Time - Seconds, Fewer Is Better
Intel Core i7-1165G7
SE +/- 0.026, N = 3
2.168
0.4878
0.9756
1.4634
1.9512
2.439
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff
WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless
Encode Time - Seconds, Fewer Is Better
Intel Core i7-1165G7
SE +/- 0.11, N = 3
17.44
4
8
12
16
20
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff
WebP Image Encode 1.1
Encode Settings: Quality 100, Highest Compression
Encode Time - Seconds, Fewer Is Better
Intel Core i7-1165G7
SE +/- 0.079, N = 3
7.135
2
4
6
8
10
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:31.