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osbench-sept-2021

Intel Core i5-4670K testing with a MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS) and MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

5.4.147 gcc-8.4.0-3ubuntu2

Processor: Intel Core i5-4670K @ 4.30GHz (4 Cores), Motherboard: MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32GB, Disk: 3 x 500GB Samsung SSD 860 + 1000GB Samsung SSD 860, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2050MHz), Audio: Realtek ALC887-VD, Monitor: NS-PMG248, Network: Qualcomm Atheros AR93xx

OS: Ubuntu 20.04, Kernel: 5.4.147-0504147+customidle-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.2.1 kisak-mesa PPA (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 8.4.0 + Clang 12.0.1-1~kisak~f + LLVM 10.0.0, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RADV_DEBUG=zerovram CXXFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fvisibility-inlines-hidden -fno-tree-loop-vectorize" MESA_DISK_CACHE_SINGLE_FILE=1 CFFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize" CFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fno-tree-loop-vectorize" AMD_DEBUG=zerovram WINEDEBUG=-all,fixme-all FFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize"
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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x22
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

5.4.147 gcc-7.5.0-6ubuntu2

Processor: Intel Core i5-4670K @ 4.30GHz (4 Cores), Motherboard: MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32GB, Disk: 3 x 500GB Samsung SSD 860 + 1000GB Samsung SSD 860, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2050MHz), Audio: Realtek ALC887-VD, Monitor: NS-PMG248, Network: Qualcomm Atheros AR93xx

OS: Ubuntu 20.04, Kernel: 5.4.147-0504147+customidle-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.2.1 kisak-mesa PPA (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 7.5.0 + Clang 12.0.1-1~kisak~f + LLVM 10.0.0, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RADV_DEBUG=zerovram CXXFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fvisibility-inlines-hidden -fno-tree-loop-vectorize" MESA_DISK_CACHE_SINGLE_FILE=1 CFFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize" CFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fno-tree-loop-vectorize" AMD_DEBUG=zerovram WINEDEBUG=-all,fixme-all FFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize"
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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x22
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

5.4.147 gcc-11.1.0-1ubuntu120.04

Processor: Intel Core i5-4670K @ 4.30GHz (4 Cores), Motherboard: MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32GB, Disk: 3 x 500GB Samsung SSD 860 + 1000GB Samsung SSD 860, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2050MHz), Audio: Realtek ALC887-VD, Monitor: NS-PMG248, Network: Qualcomm Atheros AR93xx

OS: Ubuntu 20.04, Kernel: 5.4.147-0504147+customidle-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.2.1 kisak-mesa PPA (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 11.1.0 + Clang 12.0.1-1~kisak~f + LLVM 10.0.0, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: Transparent Huge Pages: madvise

Environment Notes: RADV_DEBUG=zerovram CXXFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fvisibility-inlines-hidden -fno-tree-loop-vectorize" MESA_DISK_CACHE_SINGLE_FILE=1 CFFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize" CFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fno-tree-loop-vectorize" AMD_DEBUG=zerovram WINEDEBUG=-all,fixme-all FFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize"
Compiler Notes: --build=x86_64-linux-gnu --disable-cet --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-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-2V7zgg/gcc-11-11.1.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-2V7zgg/gcc-11-11.1.0/debian/tmp-gcn/usr --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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x22
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

5.4.147 gcc-9.3.0-17ubuntu120.04

Processor: Intel Core i5-4670K @ 4.30GHz (4 Cores), Motherboard: MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32GB, Disk: 3 x 500GB Samsung SSD 860 + 1000GB Samsung SSD 860, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2050MHz), Audio: Realtek ALC887-VD, Monitor: NS-PMG248, Network: Qualcomm Atheros AR93xx

OS: Ubuntu 20.04, Kernel: 5.4.147-0504147+customidle-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.2.1 kisak-mesa PPA (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 9.3.0 + Clang 12.0.1-1~kisak~f + LLVM 10.0.0, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RADV_DEBUG=zerovram CXXFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fvisibility-inlines-hidden -fno-tree-loop-vectorize" MESA_DISK_CACHE_SINGLE_FILE=1 CFFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize" CFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fno-tree-loop-vectorize" AMD_DEBUG=zerovram WINEDEBUG=-all,fixme-all FFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize"
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-HskZEa/gcc-9-9.3.0/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x22
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

5.4.147 gcc-10.3.0-1ubuntu120.04

Processor: Intel Core i5-4670K @ 4.30GHz (4 Cores), Motherboard: MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32GB, Disk: 3 x 500GB Samsung SSD 860 + 1000GB Samsung SSD 860, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2050MHz), Audio: Realtek ALC887-VD, Monitor: NS-PMG248, Network: Qualcomm Atheros AR93xx

OS: Ubuntu 20.04, Kernel: 5.4.147-0504147+customidle-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.2.1 kisak-mesa PPA (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 10.3.0 + Clang 12.0.1-1~kisak~f + LLVM 10.0.0, File-System: ext4, Screen Resolution: 3840x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RADV_DEBUG=zerovram CXXFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fvisibility-inlines-hidden -fno-tree-loop-vectorize" MESA_DISK_CACHE_SINGLE_FILE=1 CFFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize" CFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fno-tree-loop-vectorize" AMD_DEBUG=zerovram WINEDEBUG=-all,fixme-all FFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize"
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-S4I5Pr/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-S4I5Pr/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x22
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

5.15-rc2 gcc-9.3.0-17ubuntu120.04

Processor: Intel Core i5-4670K @ 4.30GHz (4 Cores), Motherboard: MSI Z87-G41 PC Mate(MS-7850) v1.0 (V1.8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32GB, Disk: 3 x 500GB Samsung SSD 860 + 1000GB Samsung SSD 860, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2050MHz), Audio: Realtek ALC887-VD, Monitor: NS-PMG248, Network: Qualcomm Atheros AR93xx

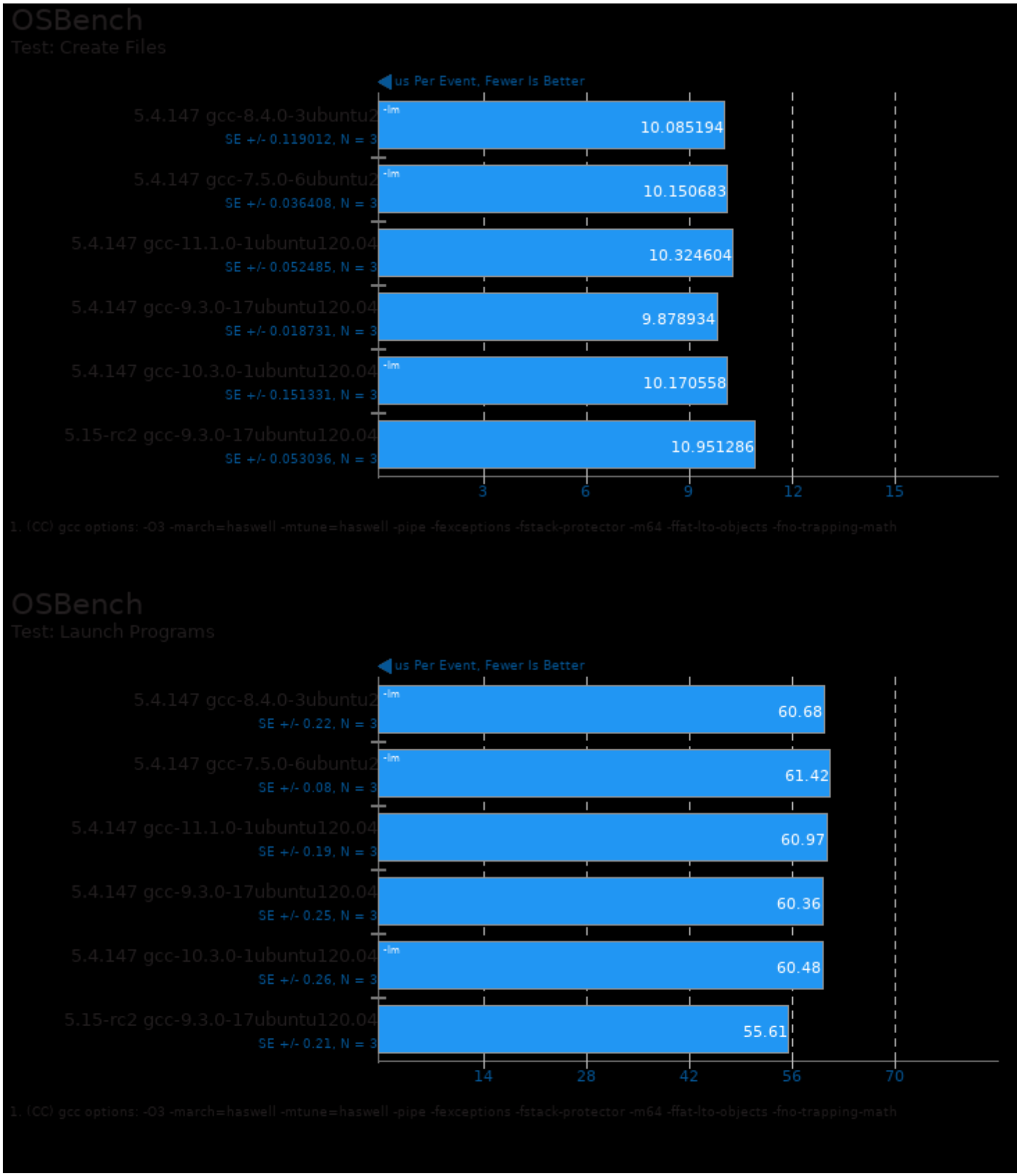
OS: Ubuntu 20.04, Kernel: 5.15-rc2-051500rc2+customidle-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.2.1 kisak-mesa PPA (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 9.3.0 + Clang 12.0.1-1~kisak~f + LLVM 10.0.0, File-System: ext4, Screen Resolution: 3840x1080

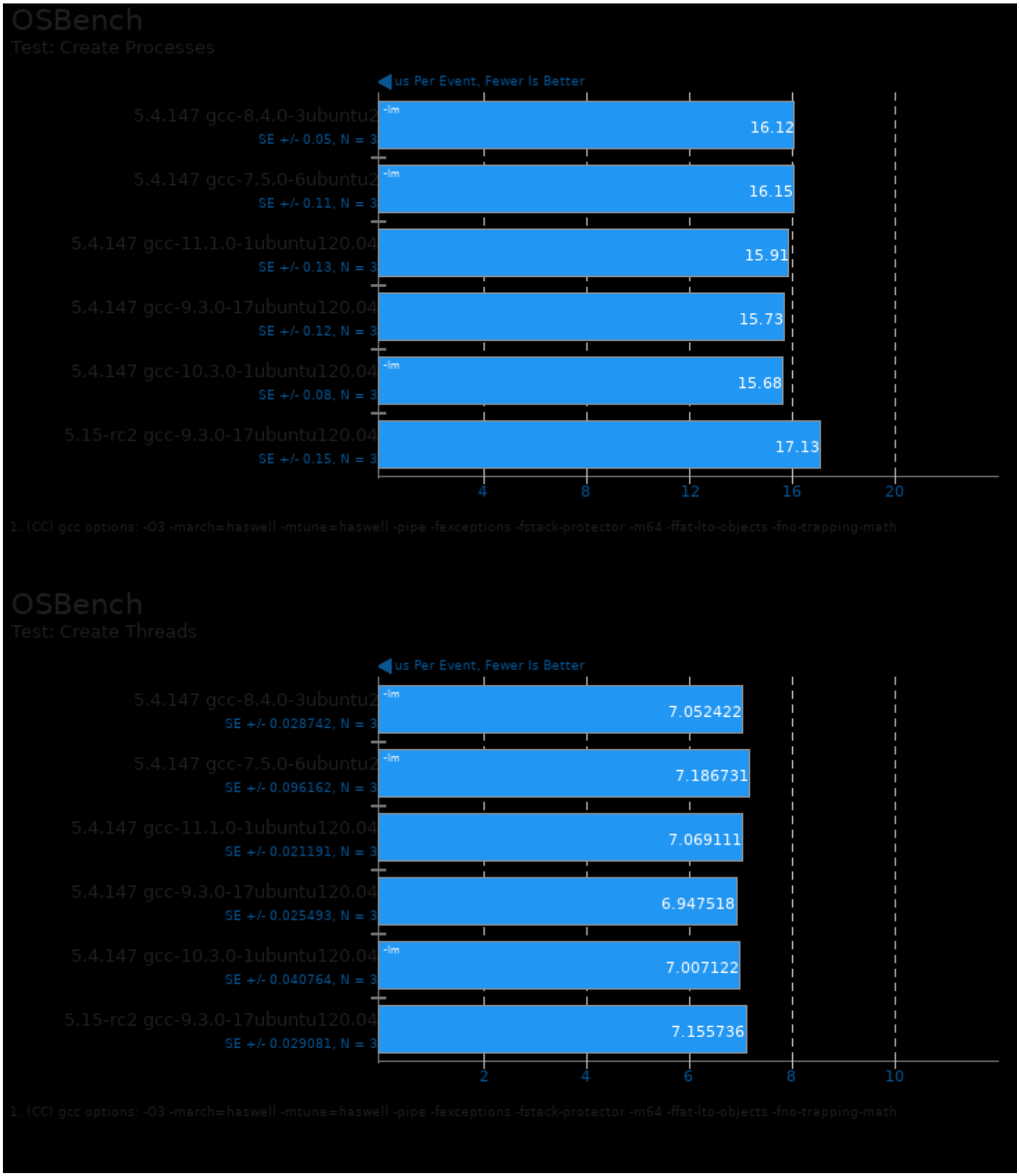
Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RADV_DEBUG=zerovram CXXFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fvisibility-inlines-hidden -fno-tree-loop-vectorize" MESA_DISK_CACHE_SINGLE_FILE=1 CFFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize" CFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -fno-tree-loop-vectorize" AMD_DEBUG=zerovram WINEDEBUG=-all,fixme-all FFLAGS="-O3 -march=haswell -mtune=haswell -pipe -feliminate-unused-debug-types -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -ftree-loop-distribute-patterns -malign-data=abi -fno-semantic-interposition -ftree-vectorize -fno-tree-loop-vectorize"
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-HskZEa/gcc-9-9.3.0/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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x22
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable SMT disabled + mds: Vulnerable; SMT disabled + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

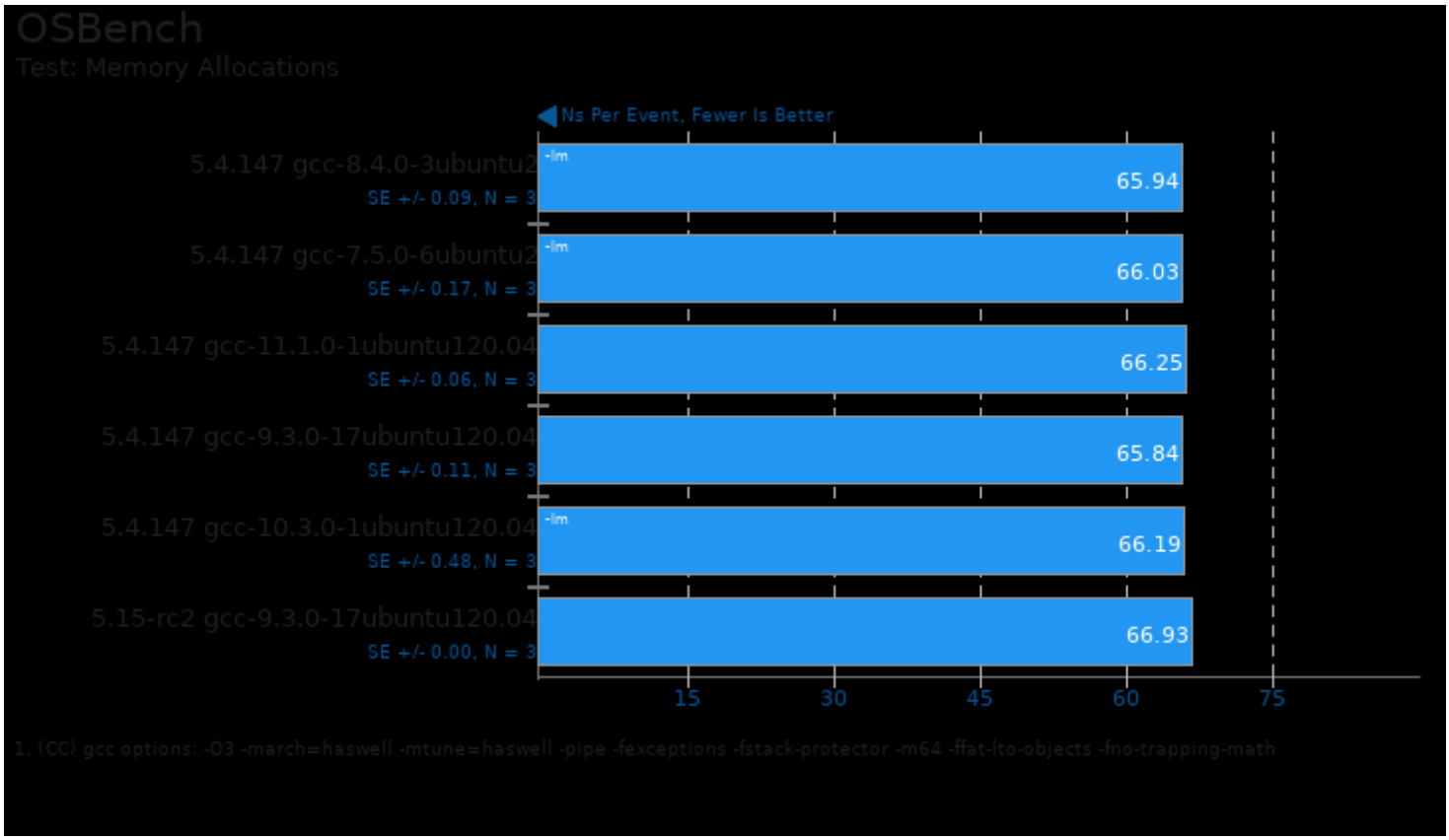
	5.4.147 gcc-8.4.0-3ubuntu2	5.4.147 gcc-7.5.0-6ubuntu2	5.4.147 gcc-11.1.0-1ubuntu120.04	5.4.147 gcc-9.3.0-17ubuntu120.04	5.4.147 gcc-10.3.0-1ubuntu120.04	5.15-rc2 gcc-9.3.0-17ubuntu120.04
OSBench - Create Files (us/Event)	10.085194	10.150683	10.324604	**9.878934**	10.170558	**10.951286**
Normalized	97.95%	97.32%	95.68%	100%	97.13%	90.21%
Standard Deviation	2%	0.6%	0.9%	0.3%	2.6%	0.8%

osbench-sept-2021

OSBench - Launch Programs (us/Event)	60.680707	**61.419805**	60.970783	60.356458	60.476462	**55.607160**
Normalized	91.64%	90.54%	91.2%	92.13%	91.95%	100%
Standard Deviation	0.6%	0.2%	0.5%	0.7%	0.8%	0.7%
OSBench - Create Processes (us/Event)	16.116301	16.146501	15.909672	15.726089	**15.680790**	**17.132759**
Normalized	97.3%	97.12%	98.56%	99.71%	100%	91.53%
Standard Deviation	0.6%	1.2%	1.4%	1.3%	0.8%	1.5%
OSBench - Create Threads (us/Event)	7.052422	**7.186731**	7.069111	**6.947518**	7.007122	7.155736
Normalized	98.51%	96.67%	98.28%	100%	99.15%	97.09%
Standard Deviation	0.7%	2.3%	0.5%	0.6%	1%	0.7%
OSBench - Memory Allocations (Ns/Event)	65.944751	66.027959	66.248655	**65.841675**	66.193978	**66.928307**
Normalized	99.84%	99.72%	99.39%	100%	99.47%	98.38%
Standard Deviation	0.2%	0.5%	0.2%	0.3%	1.3%	0%


OSBench
Test: Create Files
us Per Event, Fewer Is Better
5.4.147 gcc-8.4.0-3ubuntu2
SE +/- 0.119012, N = 3
-lm
10.085194
5.4.147 gcc-7.5.0-6ubuntu2
SE +/- 0.036408, N = 3
-lm
10.150683
5.4.147 gcc-11.1.0-1ubuntu120.04
SE +/- 0.052485, N = 3
10.324604
5.4.147 gcc-9.3.0-17ubuntu120.04
SE +/- 0.018731, N = 3
9.878934
5.4.147 gcc-10.3.0-1ubuntu120.04
SE +/- 0.151331, N = 3
-lm
10.170558
5.15-rc2 gcc-9.3.0-17ubuntu120.04
SE +/- 0.053036, N = 3
10.951286
3
6
9
12
15
1. (CC) gcc options: -O3 -march=haswell -mtune=haswell -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-trapping-math
OSBench
Test: Launch Programs
us Per Event, Fewer Is Better
5.4.147 gcc-8.4.0-3ubuntu2
SE +/- 0.22, N = 3
-lm
60.68
5.4.147 gcc-7.5.0-6ubuntu2
SE +/- 0.08, N = 3
-lm
61.42
5.4.147 gcc-11.1.0-1ubuntu120.04
SE +/- 0.19, N = 3
60.97
5.4.147 gcc-9.3.0-17ubuntu120.04
SE +/- 0.25, N = 3
60.36
5.4.147 gcc-10.3.0-1ubuntu120.04
SE +/- 0.26, N = 3
-lm
60.48
5.15-rc2 gcc-9.3.0-17ubuntu120.04
SE +/- 0.21, N = 3
55.61
14
28
42
56
70
1. (CC) gcc options: -O3 -march=haswell -mtune=haswell -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-trapping-math


OSBench
Test: Create Processes
us Per Event, Fewer Is Better
5.4.147 gcc-8.4.0-3ubuntu2
SE +/- 0.05, N = 3
-lm
16.12
5.4.147 gcc-7.5.0-6ubuntu2
SE +/- 0.11, N = 3
-lm
16.15
5.4.147 gcc-11.1.0-1ubuntu120.04
SE +/- 0.13, N = 3
15.91
5.4.147 gcc-9.3.0-17ubuntu120.04
SE +/- 0.12, N = 3
15.73
5.4.147 gcc-10.3.0-1ubuntu120.04
SE +/- 0.08, N = 3
-lm
15.68
5.15-rc2 gcc-9.3.0-17ubuntu120.04
SE +/- 0.15, N = 3
17.13
4
8
12
16
20
1. (CC) gcc options: -O3 -march=haswell -mtune=haswell -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-trapping-math
OSBench
Test: Create Threads
us Per Event, Fewer Is Better
5.4.147 gcc-8.4.0-3ubuntu2
SE +/- 0.028742, N = 3
-lm
7.052422
5.4.147 gcc-7.5.0-6ubuntu2
SE +/- 0.096162, N = 3
-lm
7.186731
5.4.147 gcc-11.1.0-1ubuntu120.04
SE +/- 0.021191, N = 3
7.069111
5.4.147 gcc-9.3.0-17ubuntu120.04
SE +/- 0.025493, N = 3
6.947518
5.4.147 gcc-10.3.0-1ubuntu120.04
SE +/- 0.040764, N = 3
-lm
7.007122
5.15-rc2 gcc-9.3.0-17ubuntu120.04
SE +/- 0.029081, N = 3
7.155736
2
4
6
8
10
1. (CC) gcc options: -O3 -march=haswell -mtune=haswell -pipe -fexceptions -fstack-protector -m64 -ffat-lto-objects -fno-trapping-math



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:07.