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osbench-test

AMD Ryzen 7 5800X 8-Core testing with a Gigabyte X570S AORUS MASTER (F3c BIOS) and MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB on Ubuntu 21.10 via the Phoronix Test Suite.

Test Systems:

fresh install, 5.13.0-22-generic, none scheduler, schedutil, mitigations=on, Xorg

fresh install, 5.13.0-22-generic, none scheduler, schedutil, mitigations=off, Xorg

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: Gigabyte X570S AORUS MASTER (F3c BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 2 x 1000GB Western Digital WDS100T1XHE-00AFY0 + 2 x 1000GB SanDisk Ultra 3D NVMe, Graphics: MSI AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1303/2000MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: NS-PMG248, Network: Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.13.0-22-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.3.0 kisak-mesa PPA (LLVM 13.0.0), Vulkan: 1.2.195, Compiler: GCC 11.2.0, File-System: ext4,

Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --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-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/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 schedutil (Boost: Enabled) - CPU Microcode: 0xa201016
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

perpetually high's 5.16-rc3 kernel, none scheduler, schedutil, mitigations=off, Xorg

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OS: Ubuntu 21.10, Kernel: 5.16-rc3-051600rc3+customidle-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.3.0 kisak-mesa PPA (LLVM 13.0.0), Vulkan: 1.2.195, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

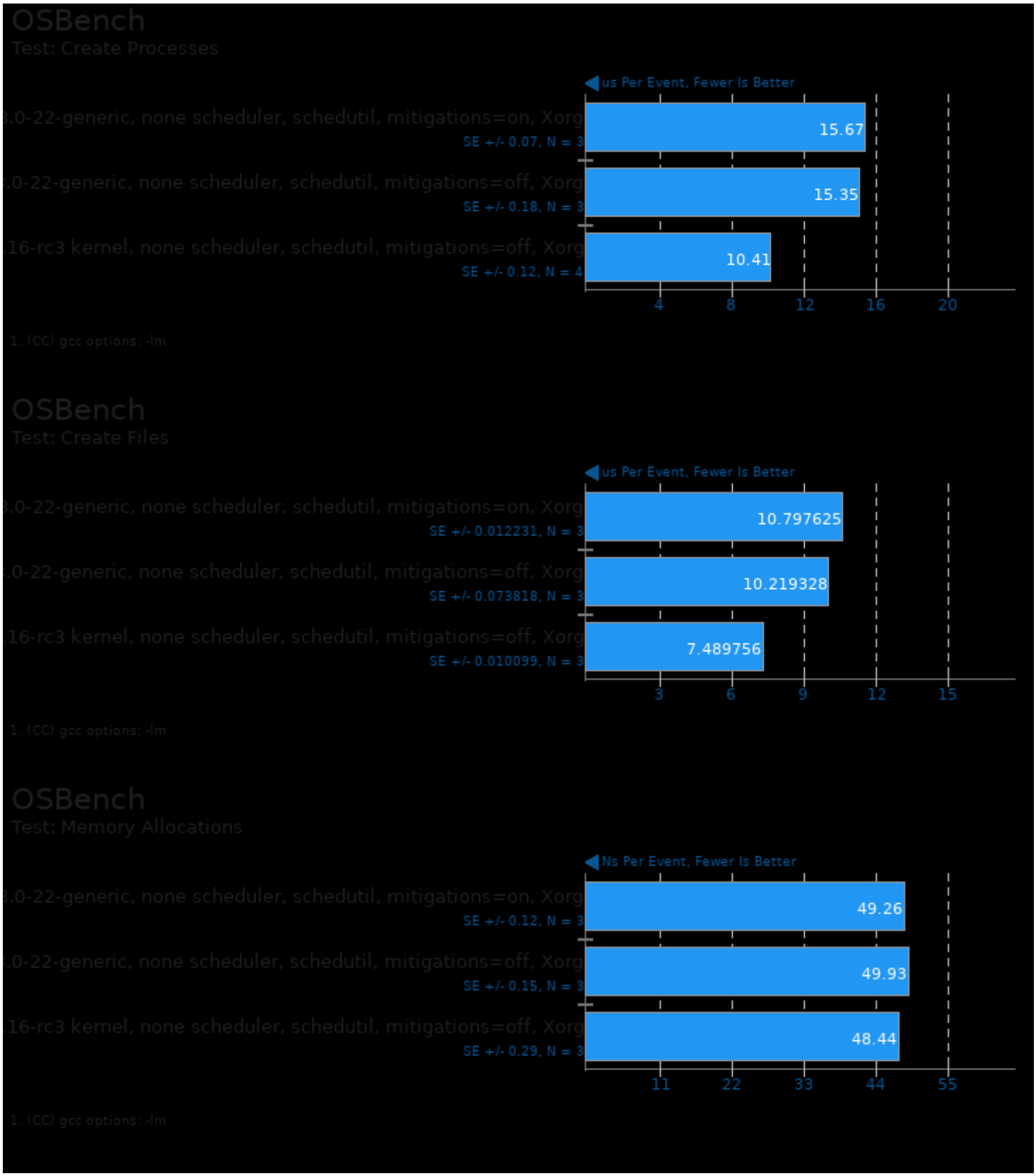
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/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
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OSBench - Create Processes (us/Event)	**15.666485**	15.353362	**10.412336**
Normalized	66.46%	67.82%	100%
Standard Deviation	0.8%	2.1%	2.3%
OSBench - Create Files (us/Event)	**10.797625**	10.219328	**7.489756**
Normalized	69.36%	73.29%	100%
Standard Deviation	0.2%	1.3%	0.2%
OSBench - Memory Allocations (Ns/Event)	49.264431	**49.933354**	**48.436562**
Normalized	98.32%	97%	100%
Standard Deviation	0.4%	0.5%	1.1%
OSBench - Launch Programs (us/Event)	**25.166670**	24.776459	**17.834505**
Normalized	70.87%	71.98%	100%

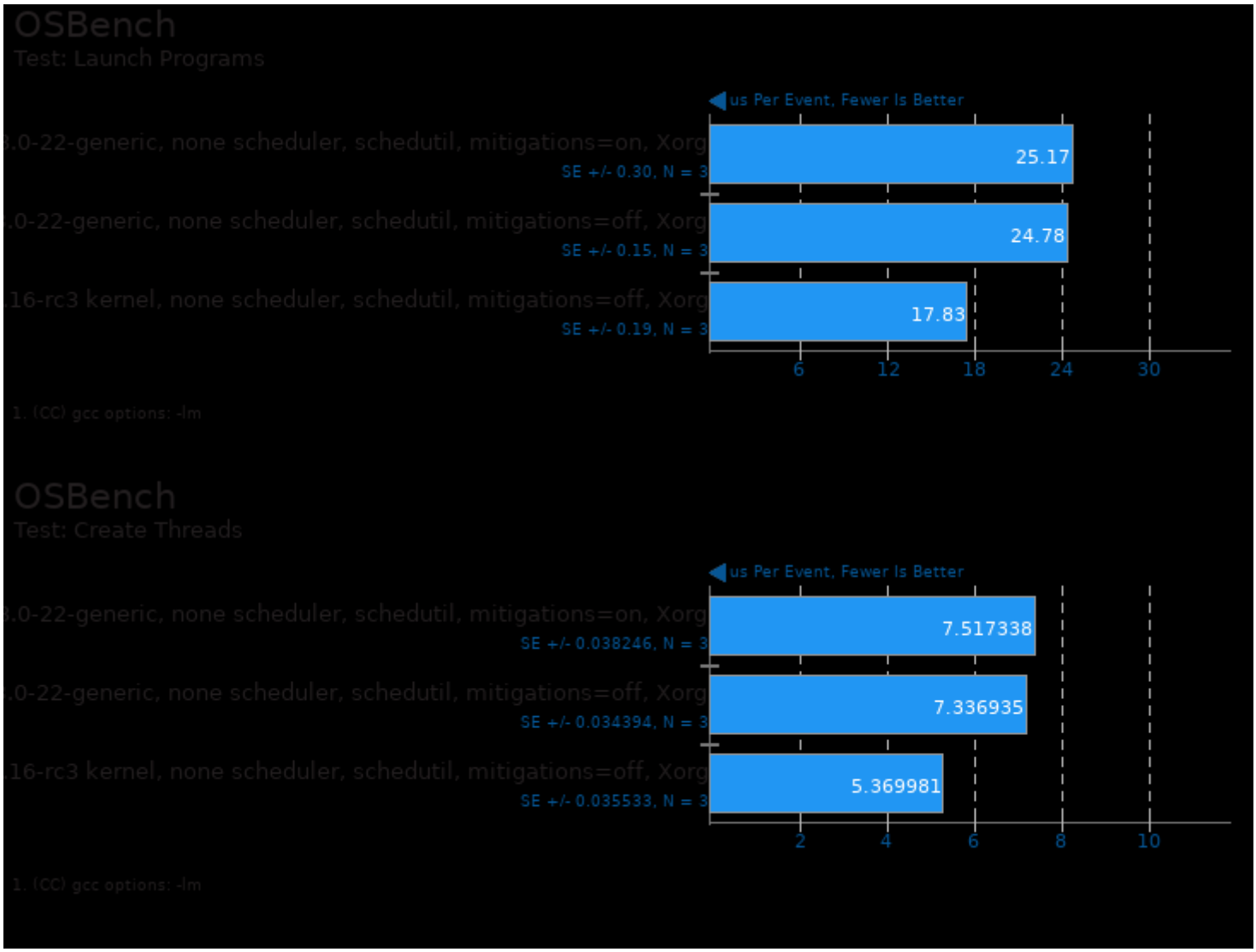
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Standard Deviation	2%	1%	1.8%
OSBench - Create Threads (us/Event)	**7.517338**	7.336935	**5.369981**
Normalized	71.43%	73.19%	100%
Standard Deviation	0.9%	0.8%	1.1%

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