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7zip

AMD Ryzen 5 5600X 6-Core testing with a ASRock B550 PG Velocita (P1.90 BIOS) and Sapphire AMD Radeon HD 6570/7570/8550 1GB on Arch Linux via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 5600X

Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASRock B550 PG Velocita (P1.90 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Sapphire AMD Radeon HD 6570/7570/8550, Audio: AMD Turks HDMI Audio, Monitor: DENON-AVR, Network: Realtek RTL8125 2.5GbE

OS: Arch Linux, Kernel: 5.11.10-arch1-1 (x86_64), Desktop: KDE Plasma 5.21.3, Display Server: X Server 1.20.10, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty

--enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

AMD Ryzen 5 5600X 6-Core

Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASRock B550 PG Velocita (P1.90 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Sapphire AMD Radeon HD 6570/7570/8550, Audio: AMD Turks HDMI Audio, Monitor: DENON-AVR, Network: Realtek RTL8125 2.5GbE

OS: Arch Linux, Kernel: 5.11.11-arch1-1 (x86_64), Desktop: KDE Plasma, Display Server: X Server 1.20.10, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
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AMD kernel

AMD kernel test 2

Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASRock B550 PG Velocita (P1.90 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Sapphire AMD Radeon HD 6570/7570/8550 1GB, Audio: AMD Turks HDMI Audio, Monitor: SAMSUNG, Network: Realtek RTL8125 2.5GbE

OS: Arch Linux, Kernel: 5.11.11-AMD (x86_64), Desktop: KDE Plasma 5.21.3, Display Server: X Server 1.20.10, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

multi-core

Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASRock B550 PG Velocita (P1.90 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Sapphire AMD Radeon HD 6570/7570/8550 1GB, Audio: AMD Turks HDMI Audio, Monitor: SAMSUNG, Network: Realtek RTL8125 2.5GbE

OS: Arch Linux, Kernel: 5.11.11-AMD (x86_64), Desktop: KDE Plasma 5.21.3, Display Server: X Server 1.20.10, OpenGL: 4.5 Mesa 21.0.1 (LLVM 11.1.0 256 bits), Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

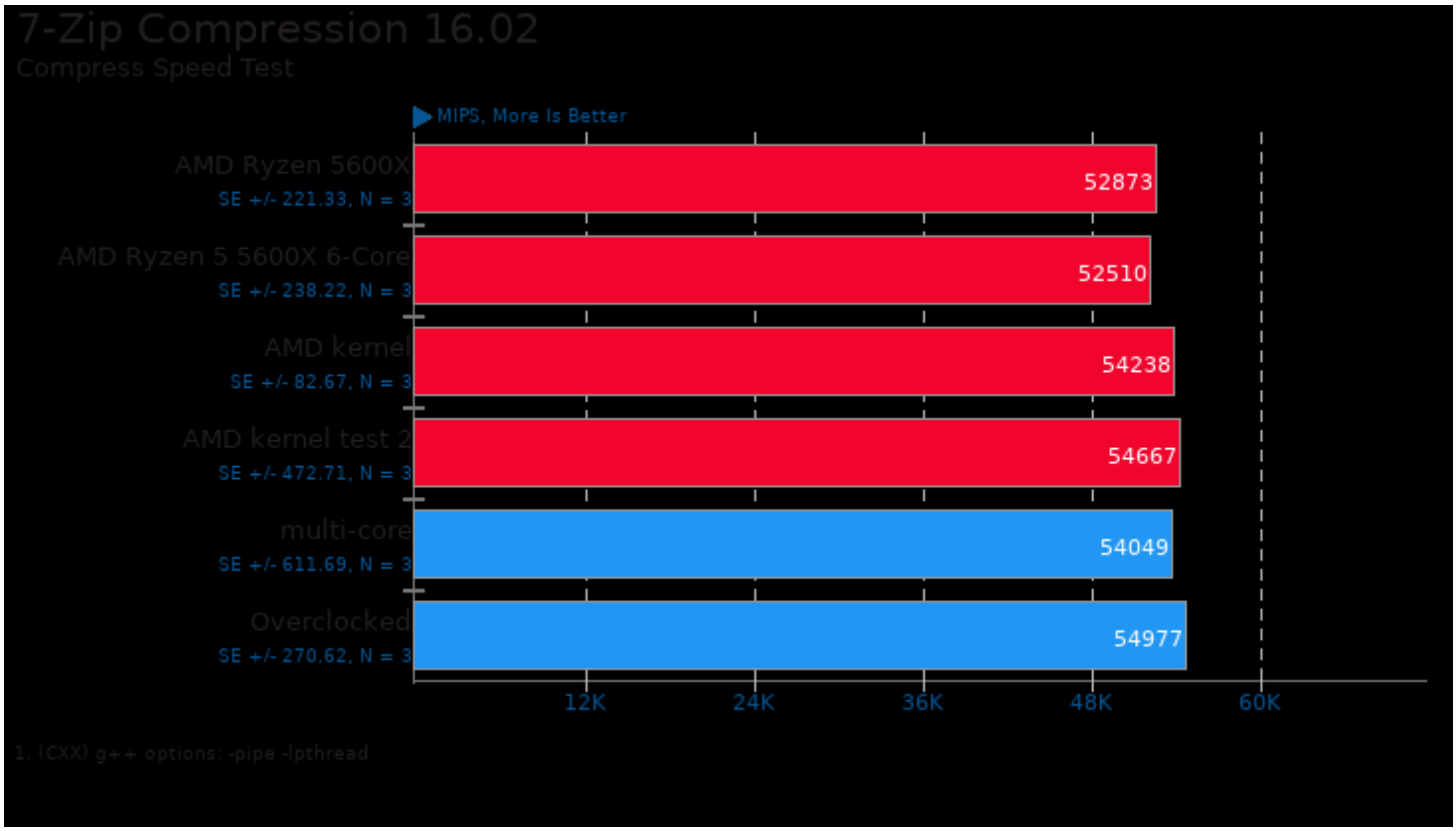
Overclocked

Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASRock B550 PG Velocita (P1.90 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: Samsung SSD 970 EVO 500GB, Graphics: Sapphire AMD Radeon HD 6570/7570/8550 1GB, Audio: AMD Turks HDMI Audio, Monitor: DENON-AVR, Network: Realtek RTL8125 2.5GbE

OS: Arch Linux, Kernel: 5.11.11-AMD (x86_64), Desktop: KDE Plasma 5.21.3, Display Server: X Server 1.20.10, Compiler: GCC 10.2.0 + Clang 11.1.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201009
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	AMD Ryzen 5600X	AMD Ryzen 5 5600X 6-Core	AMD kernel	AMD kernel test 2	multi-core	Overclocked
7-Zip Compression - C.S.T (MIPS)	52873	**52510**	54238	54667	54049	**54977**
Normalized	96.17%	95.51%	98.66%	99.44%	98.31%	100%
Standard Deviation	0.7%	0.8%	0.3%	1.5%	2%	0.9%



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