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mp3

AMD Ryzen 5 3600 6-Core testing with a Gigabyte B450 AORUS M (F40 BIOS) and NVIDIA GeForce GTX 1070 8GB on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

Intel Core i5-6600

mp3-x264-i5-6600

mp3-x264-i5-6600-clean

Processor: Intel Core i5-6600 @ 3.90GHz (4 Cores), Motherboard: MSI B150M PRO-VDH D3 (MS-7982) v2.0 (B.10 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 16384MB, Disk: 2000GB Seagate ST2000DM001-1CH1 + 250GB Samsung SSD 850 + 2000GB Seagate ST2000DM006-2DM1, Graphics: NVIDIA GeForce GTX 1070 8GB (1506/4006MHz), Audio: Realtek ALC887-VD, Monitor: PHL 275C5, Network: Realtek RTL8111/8168/8411

OS: Anarchy Linux, Kernel: 5.1.15-arch1-1-ARCH (x86_64), Desktop: KDE Plasma 5.16.2, Display Server: X Server

1.20.5, Display Driver: NVIDIA 430.26, OpenGL: 4.6.0, Vulkan: 1.1.99, Compiler: GCC 9.1.0, File-System: ext4, Screen Resolution: 4480x1440

Processor Notes: Scaling Governor: intel_pstate powersave
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT disabled + mds: Vulnerable: Clear buffers attempted no microcode; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling

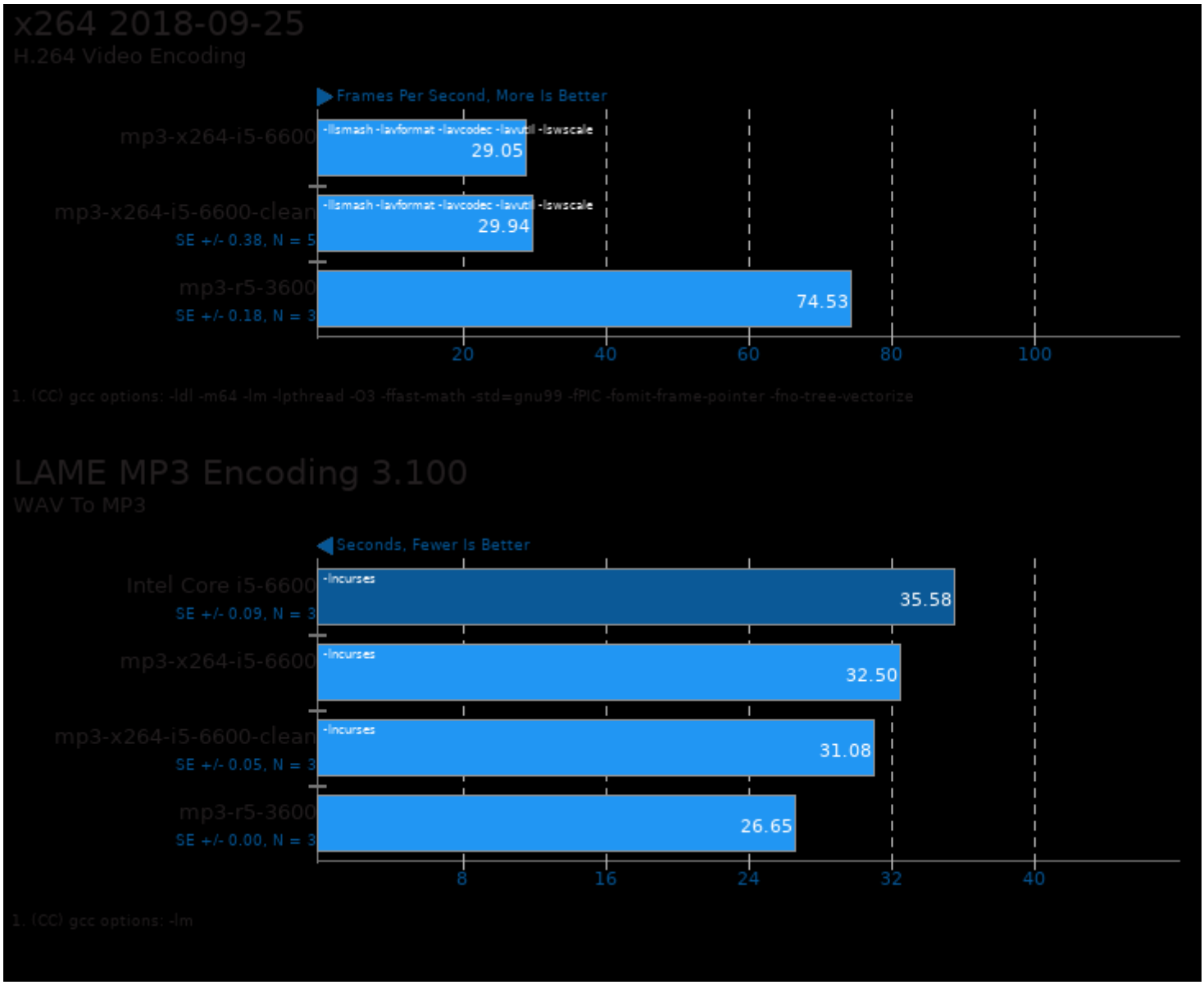
mp3-r5-3600

Processor: AMD Ryzen 5 3600 6-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: Gigabyte B450 AORUS M (F40 BIOS), Chipset: AMD Device 1480, Memory: 16384MB, Disk: Samsung SSD 970 EVO Plus 250GB + 2000GB Seagate ST2000DM006-2DM1 + 2000GB Seagate ST2000DM001-1CH1 + 250GB Samsung SSD 850, Graphics: NVIDIA GeForce GTX 1070 8GB (1506/4006MHz), Audio: NVIDIA GP104 HD Audio, Monitor: PHL 275C5, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 18.04, Kernel: 4.18.0-25-generic (x86_64), Desktop: KDE Plasma 5.12.7, Display Server: X Server 1.20.4, Display Driver: NVIDIA 390.116, OpenGL: 4.6.0 NVIDIA 390.116, Compiler: GCC 7.4.0, File-System: ext4, Screen Resolution: 4480x1440

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++ --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 ondemand
Security Notes: l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling

	Intel Core i5-6600	mp3-x264-i5-6600	mp3-x264-i5-6600-clean	mp3-r5-3600
x264 - H.2.V.E (FPS)		**29.05**	30.24	**74.53**
Normalized		38.98%	40.57%	100%
Standard Deviation			0.2%	0.4%
LAME MP3 Encoding - WAV To MP3 (sec)	**35.58**	32.50	31.08	**26.65**
Normalized	74.9%	82%	85.75%	100%
Standard Deviation	0.4%		0.3%	0%



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