



## x264epyc7601

KVM testing on Fedora 34 via the Phoronix Test Suite.

### Test Systems:

#### testingx264onepyc7601

Processor: 32 x AMD EPYC 7601 32-Core (32 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (rel-1.12.1-0-ga5cab58e9a3f-prebuilt.qemu.org BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 4 x 16 GB RAM QEMU, Disk: 1374GB QEMU HDD + QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Fedora 33, Kernel: 5.11.11-200.fc33.x86\_64 (x86\_64), Compiler: GCC 10.2.1 20201125, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86\_64-redhat-linux --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Processor Notes: CPU Microcode: 0x1000065

Security Notes: SELinux + 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/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

## x264amdepyc7601

Processor: 32 x AMD EPYC 7601 32-Core (32 Cores), Motherboard: QEMU Standard PC (Q35 + ICH9 2009) (rel-1.12.1-0-ga5cab58e9a3f-prebuilt.qemu.org BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 4 x 16 GB RAM QEMU, Disk: 1374GB QEMU HDD + QEMU HDD, Graphics: bochs-drmdrmfb, Monitor: QEMU Monitor, Network: Red Hat Virtio device

OS: Fedora 34, Kernel: 5.11.11-300.fc34.x86\_64 (x86\_64), Compiler: GCC 11.0.1 20210324, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

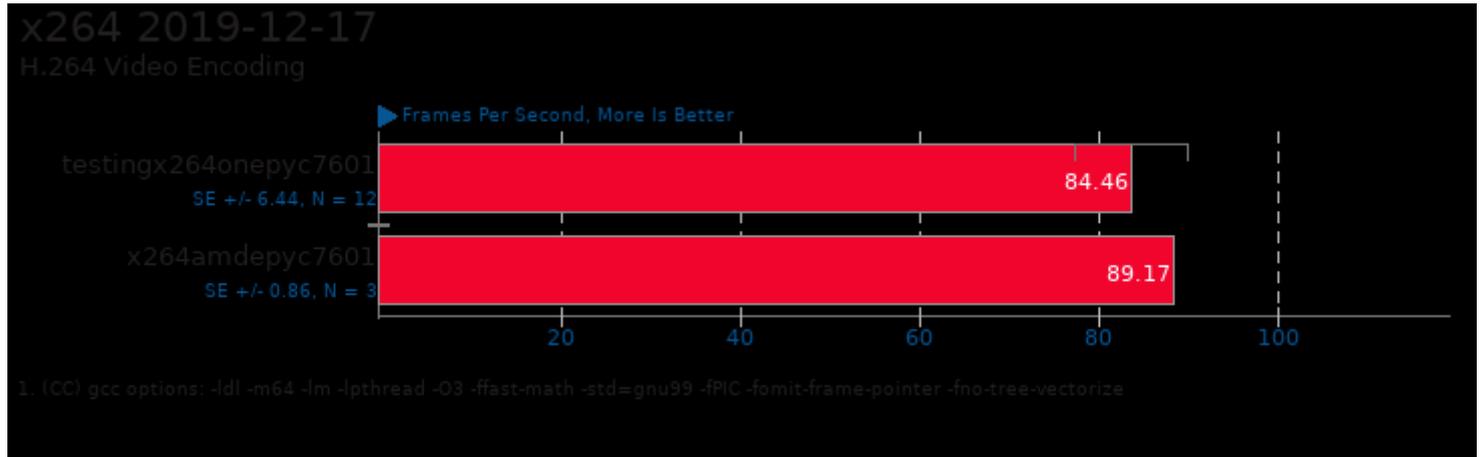
Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86\_64-redhat-linux --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch\_32=i686 --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Processor Notes: CPU Microcode: 0x1000065

Security Notes: SELinux + 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/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

	testingx264onepyc7601	x264amdepyc7601
<b>x264 - H.2.V.E (FPS)</b>	<b>84.46</b>	<b>89.17</b>
Normalized	94.72%	100%
Standard Deviation	26.4%	1.7%



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