

www.phoronix-test-suite.com

server-orig

Server in its original configuration - no memory config, no PPT

Test Systems:

server-orig

Processor: AMD Ryzen 5 5600X 6-Core @ 3.70GHz (6 Cores / 12 Threads), Motherboard: ASRockRack X470D4U (P4.20 BIOS), Memory: 32GB, Disk: 1000GB Western Digital WDS100T2B0C-00PXH0, Graphics: astdrmfb

OS: Ubuntu 20.04.1 LTS, Kernel: 5.10.0-0.bpo.8-amd64 (x86_64), Display Driver: astdrmfb, Compiler: GCC 9.3.0, File-System: overlayfs, Screen Resolution: 1024x768, System Layer: Docker

Kernel Notes: Transparent Huge Pages: always
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 conservative (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

dockervm

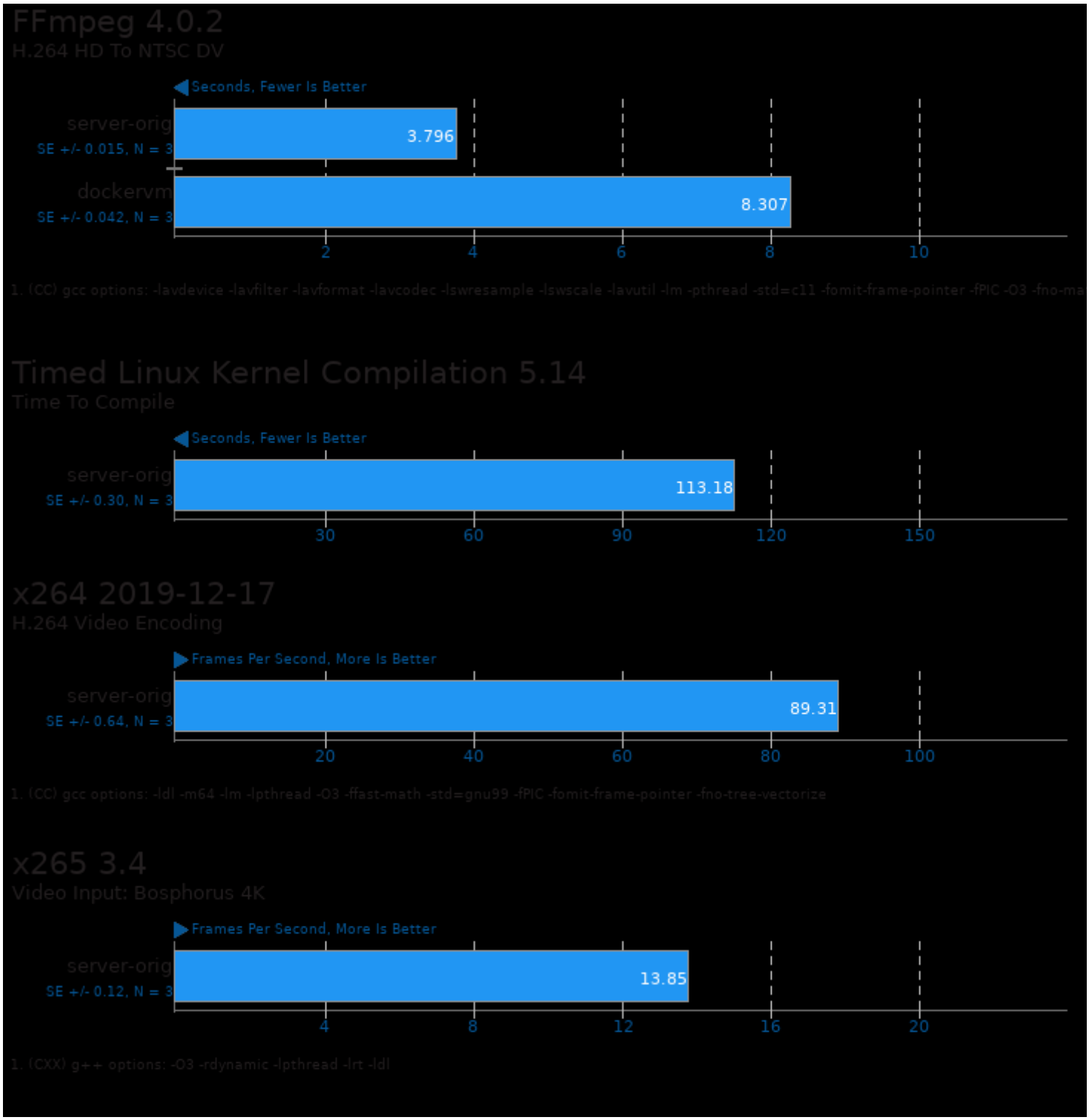
Processor: Intel Core i7-6700K (4 Cores), Motherboard: Oracle VirtualBox v1.2, Memory: 8GB, Disk: 55GB VBOX HDD, Graphics: svgadrmfb

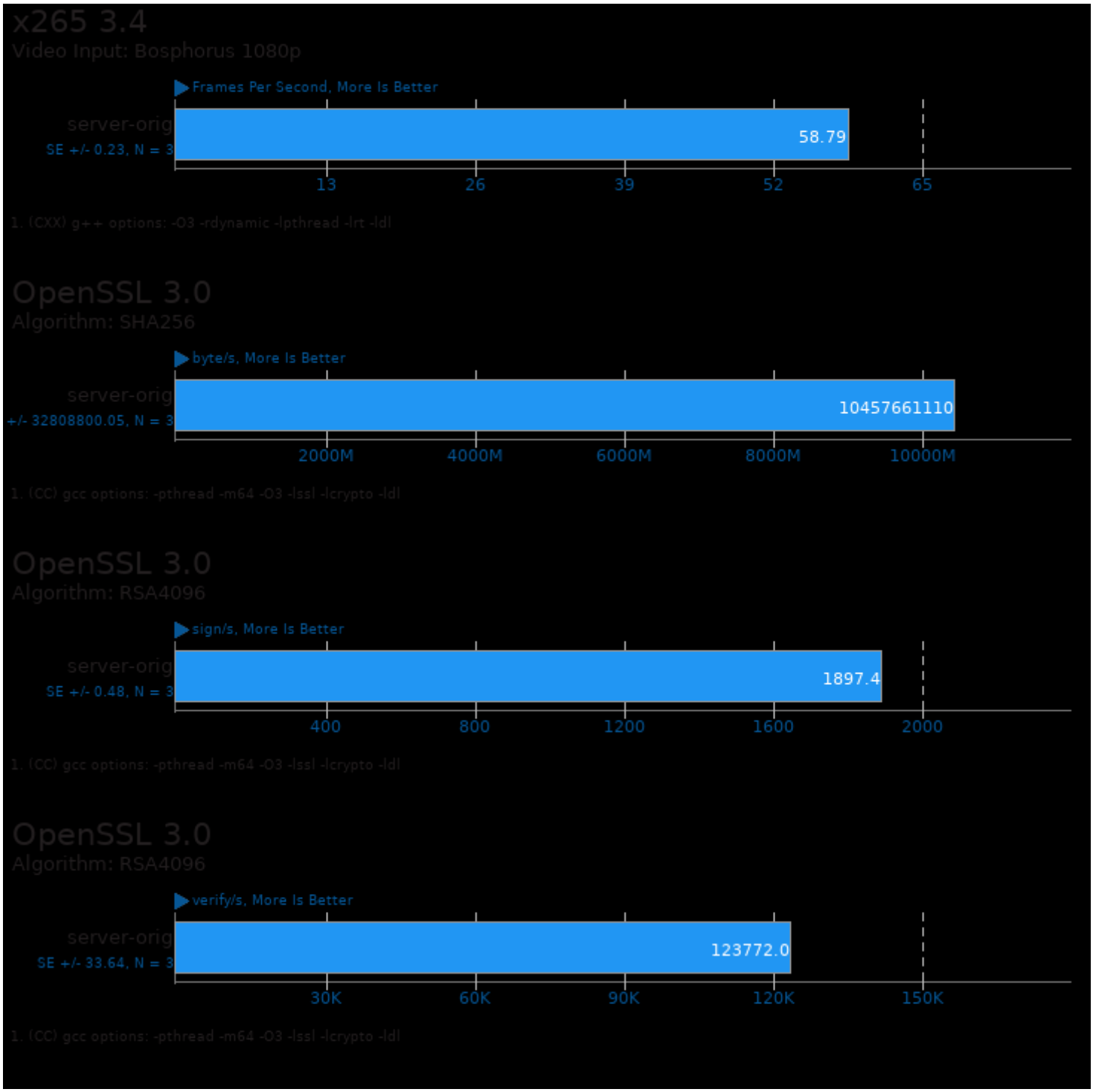
OS: Ubuntu 20.04.3 LTS, Kernel: 5.10.0-8-amd64 (x86_64), Display Driver: svgadrmfb, Compiler: GCC 9.3.0, File-System: overlayfs, Screen Resolution: 2048x2048, System Layer: VirtualBox

Kernel Notes: Transparent Huge Pages: always
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
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: EPT disabled + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected

	server-orig	dockervm
FFmpeg - H.2.H.T.N.D (sec)	**3.796**	**8.307**
Normalized	100%	45.7%
Standard Deviation	0.7%	0.9%
Timed Linux Kernel Compilation - Time To Compile	113.179	
Standard Deviation	0.5%	
x264 - H.2.V.E (FPS)	89.31	
Standard Deviation	1.2%	
x265 - Bosphorus 4K (FPS)	13.85	
Standard Deviation	1.5%	
x265 - Bosphorus 1080p (FPS)	58.79	
Standard Deviation	0.7%	
OpenSSL - SHA256 (byte/s)	10457661110	
Standard Deviation	0.5%	
OpenSSL - RSA4096 (sign/s)	1897	
Standard Deviation	0%	
OpenSSL - RSA4096 (verify/s)	123772	
Standard Deviation	0%	

server-orig


FFmpeg 4.0.2
H.264 HD To NTSC DV
Seconds, Fewer Is Better
server-orig
SE +/- 0.015, N = 3
3.796
dockervm
SE +/- 0.042, N = 3
8.307
2
4
6
8
10
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lm -pthread -std=c11 -fomit-frame-pointer -fPIC -O3 -fno-ma
Timed Linux Kernel Compilation 5.14
Time To Compile
Seconds, Fewer Is Better
server-orig
SE +/- 0.30, N = 3
113.18
30
60
90
120
150
x264 2019-12-17
H.264 Video Encoding
Frames Per Second, More Is Better
server-orig
SE +/- 0.64, N = 3
89.31
20
40
60
80
100
1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize
x265 3.4
Video Input: Bosphorus 4K
Frames Per Second, More Is Better
server-orig
SE +/- 0.12, N = 3
13.85
4
8
12
16
20
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:37.