

www.phoronix-test-suite.com

WebServerGoesBrrrt

microsoft testing on Ubuntu 21.10 via the Phoronix Test Suite.

Test Systems:

Video encoding on webservers

Processor: Intel Xeon X5690 (11 Cores / 22 Threads), Motherboard: Microsoft Virtual Machine (Hyper-V UEFI v4.0 BIOS), Memory: 10GB, Disk: 1100GB Virtual Disk, Graphics: hyperv_fb

OS: Ubuntu 21.10, Kernel: 5.13.0-21-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, Vulkan: 1.1.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: microsoft

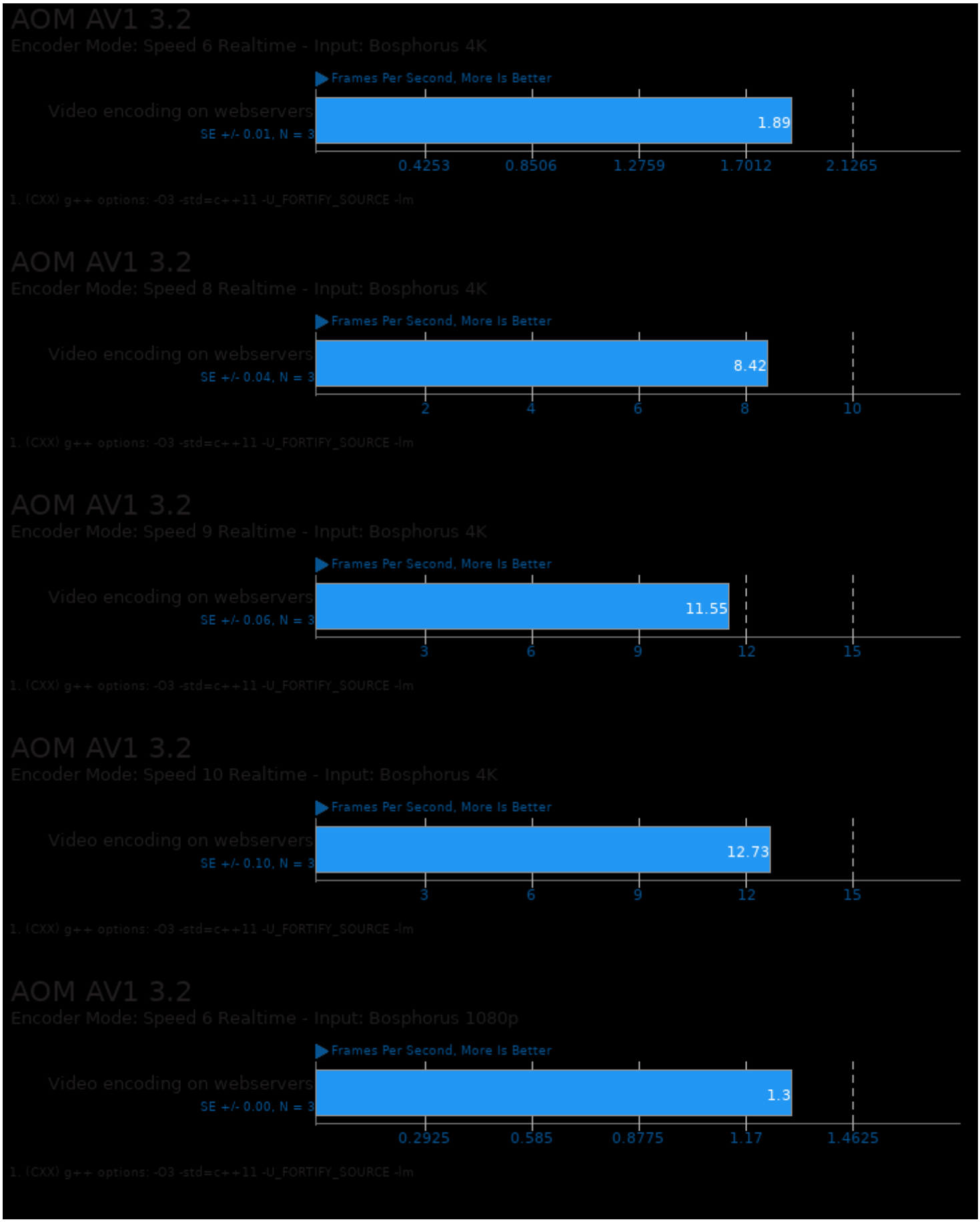
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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

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Processor Notes: CPU Microcode: 0xffffffff
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Video encoding on webservers	
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	1.89
Standard Deviation	1.3%
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	8.42
Standard Deviation	0.9%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	11.55
Standard Deviation	0.9%
AOM AV1 - Speed 10 Realtime - Bosphorus 4K (FPS)	12.73
Standard Deviation	1.3%
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	1.3
Standard Deviation	0%
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	23.95
Standard Deviation	2.9%
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	28.07
Standard Deviation	0.8%
AOM AV1 - Speed 10 Realtime - Bosphorus 1080p (FPS)	32.57
Standard Deviation	0.7%
VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)	0.96
Standard Deviation	1%
VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)	2.49
Standard Deviation	1.1%
VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)	2.30
Standard Deviation	0.8%
VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)	5.10
Standard Deviation	0.2%
x264 - H.2.V.E (FPS)	25.25
Standard Deviation	8.7%
x265 - Bosphorus 4K (FPS)	3.34
Standard Deviation	0.3%
x265 - Bosphorus 1080p (FPS)	11.62
Standard Deviation	1.4%

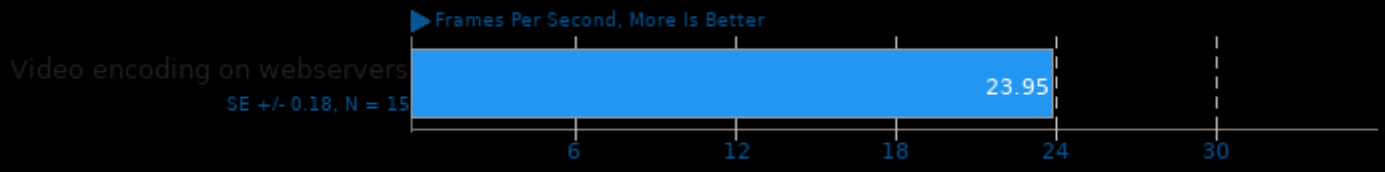
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AOM AV1 3.2

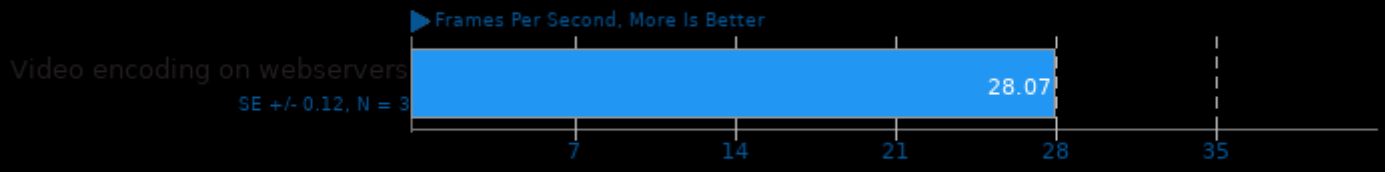
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.2

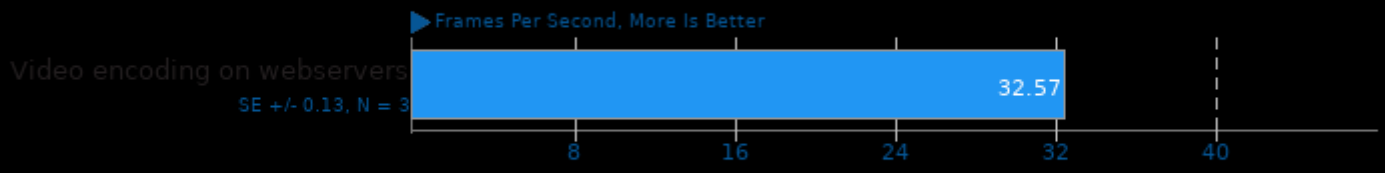
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.2

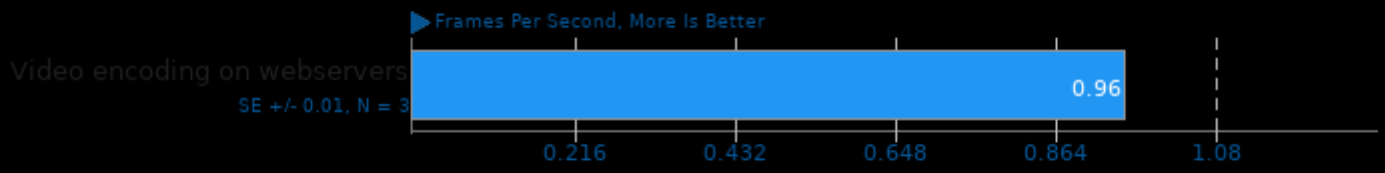
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

VP9 libvpx Encoding 1.10.0

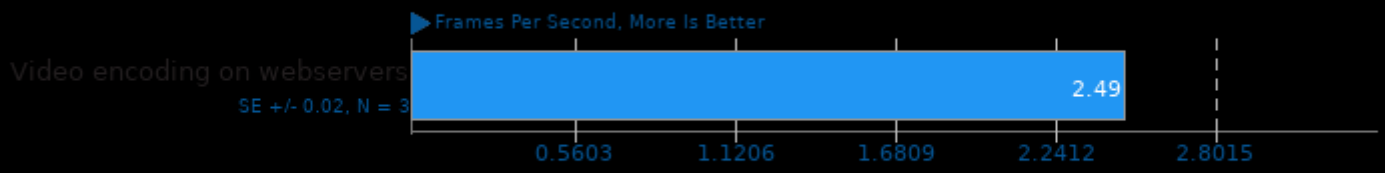
Speed: Speed 0 - Input: Bosphorus 4K



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

VP9 libvpx Encoding 1.10.0

Speed: Speed 5 - Input: Bosphorus 4K

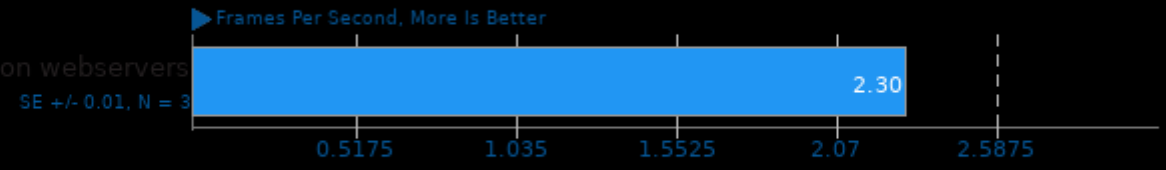


1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

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VP9 libvpx Encoding 1.10.0

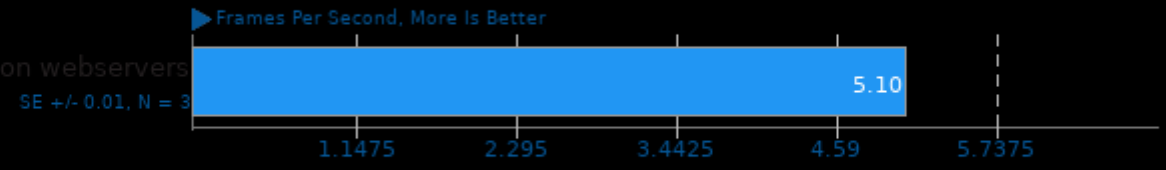
Speed: Speed 0 - Input: Bosphorus 1080p



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

VP9 libvpx Encoding 1.10.0

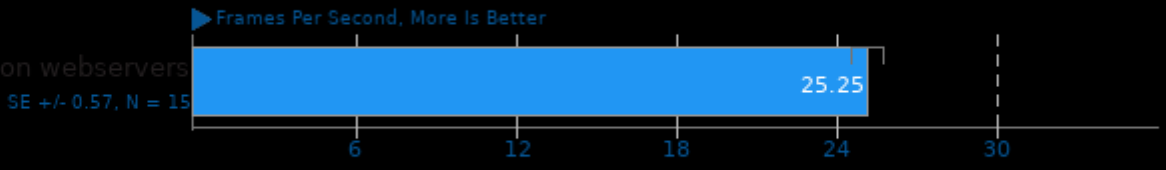
Speed: Speed 5 - Input: Bosphorus 1080p



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

x264 2019-12-17

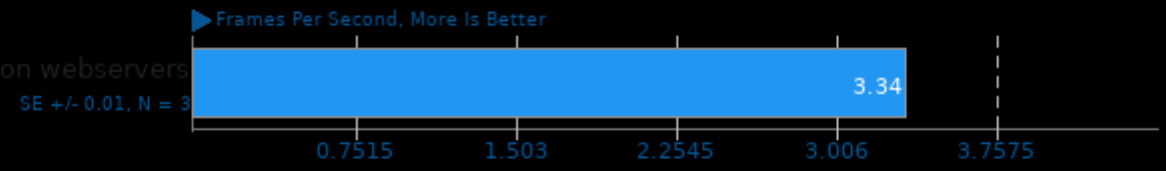
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

x265 3.4

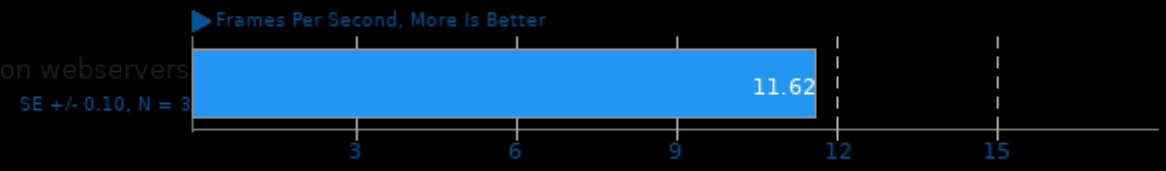
Video Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

x265 3.4

Video Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

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