



cc23assignment2

Xen HVM domU 4.11.amazon testing on Ubuntu 22.04 via the Phoronix Test Suite.

Test Systems:

t2_small

t2_s

t2_smal

Intel Xeon E5-2686 v4 - Cirrus Logic GD 5446 - Xen

Processor: Intel Xeon E5-2686 v4 (1 Core), Motherboard: Xen HVM domU (4.11.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 2048MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 22.04, Kernel: 5.15.0-1028-aws (x86_64), Vulkan: 1.2.204, Compiler: GCC 11.3.0, File-System: ext4, System Layer: Xen HVM domU 4.11.amazon

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-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-n-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/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

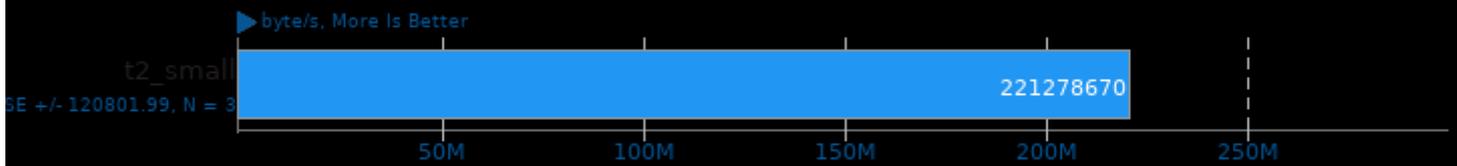
Processor Notes: CPU Microcode: 0xb000040

Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + I1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling PBRBS-elBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	t2_small	t2_s	t2_small	Intel Xeon E5-2686 v4 - Cirrus Logic GD
OpenSSL - SHA256 (byte/s)	221278670			
Standard Deviation	0.1%			
OpenSSL - RSA4096 (sign/s)	122.6			
Standard Deviation	1.1%			
OpenSSL - RSA4096 (verify/s)	8016			
Standard Deviation	0.3%			
LAME MP3 Encoding - WAV To MP3	14.120			
(sec)				
Standard Deviation	1.7%			
Apache HTTP Server - 1 (Reqs/sec)	4034			
Standard Deviation	0.3%			
Apache HTTP Server - 20 (Reqs/sec)	4628			
Standard Deviation	0.4%			
Apache HTTP Server - 100 (Reqs/sec)	4629			
Standard Deviation	0.4%			
Apache HTTP Server - 200 (Reqs/sec)	4470			
Standard Deviation	0.9%			
Apache HTTP Server - 500 (Reqs/sec)	2266			
Standard Deviation	57%			
Apache HTTP Server - 1000	1085			
Standard Deviation	71.7%			
Loopback TCP Network Performance -	56.992			
T.T.T.1.V.L (sec)				
Standard Deviation	43.6%			
John The Ripper - Blowfish (Real C/S)	260			
Standard Deviation	88.2%			

OpenSSL 3.0

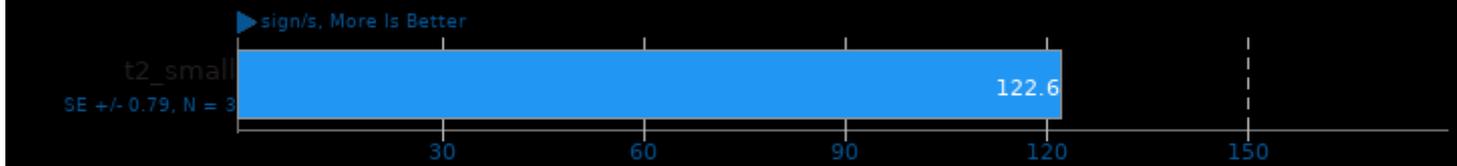
Algorithm: SHA256



1. (CC) gcc options: -pthread -m64 -O3 -lcrypto -ldl

OpenSSL 3.0

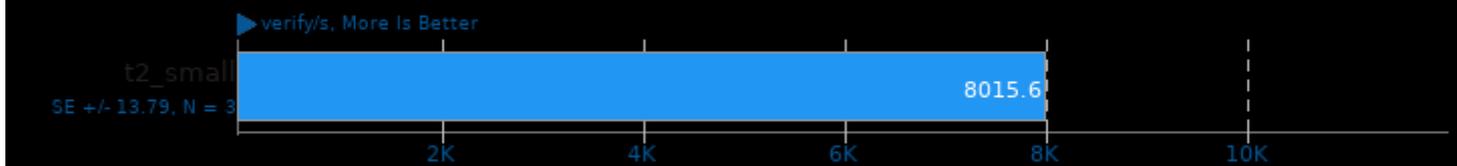
Algorithm: RSA4096



1. (CC) gcc options: -pthread -m64 -O3 -lcrypto -ldl

OpenSSL 3.0

Algorithm: RSA4096



1. (CC) gcc options: -pthread -m64 -O3 -lcrypto -ldl

LAME MP3 Encoding 3.100

WAV To MP3



1. (CC) gcc options: -O3 -fast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm

Apache HTTP Server 2.4.48

Concurrent Requests: 1



1. (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

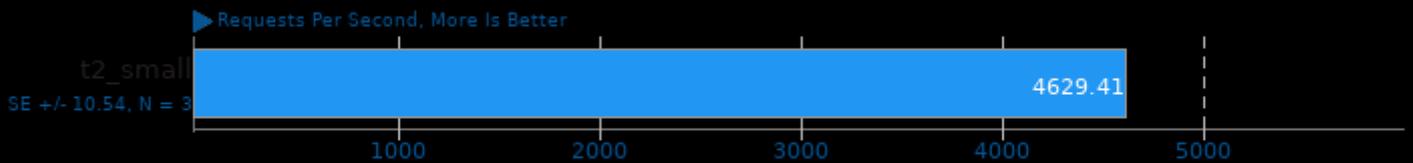
Concurrent Requests: 20



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

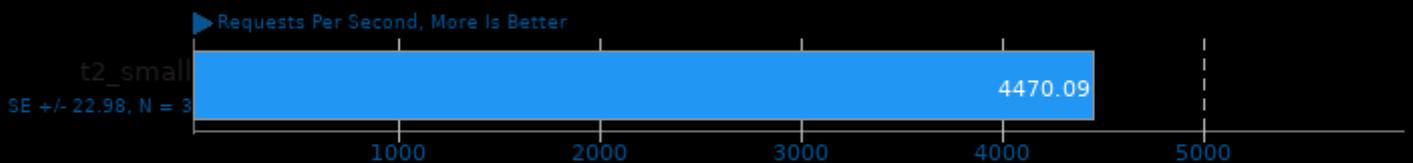
Concurrent Requests: 100



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

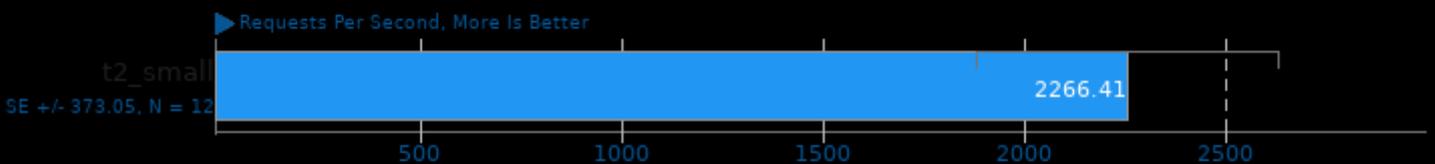
Concurrent Requests: 200



1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 500



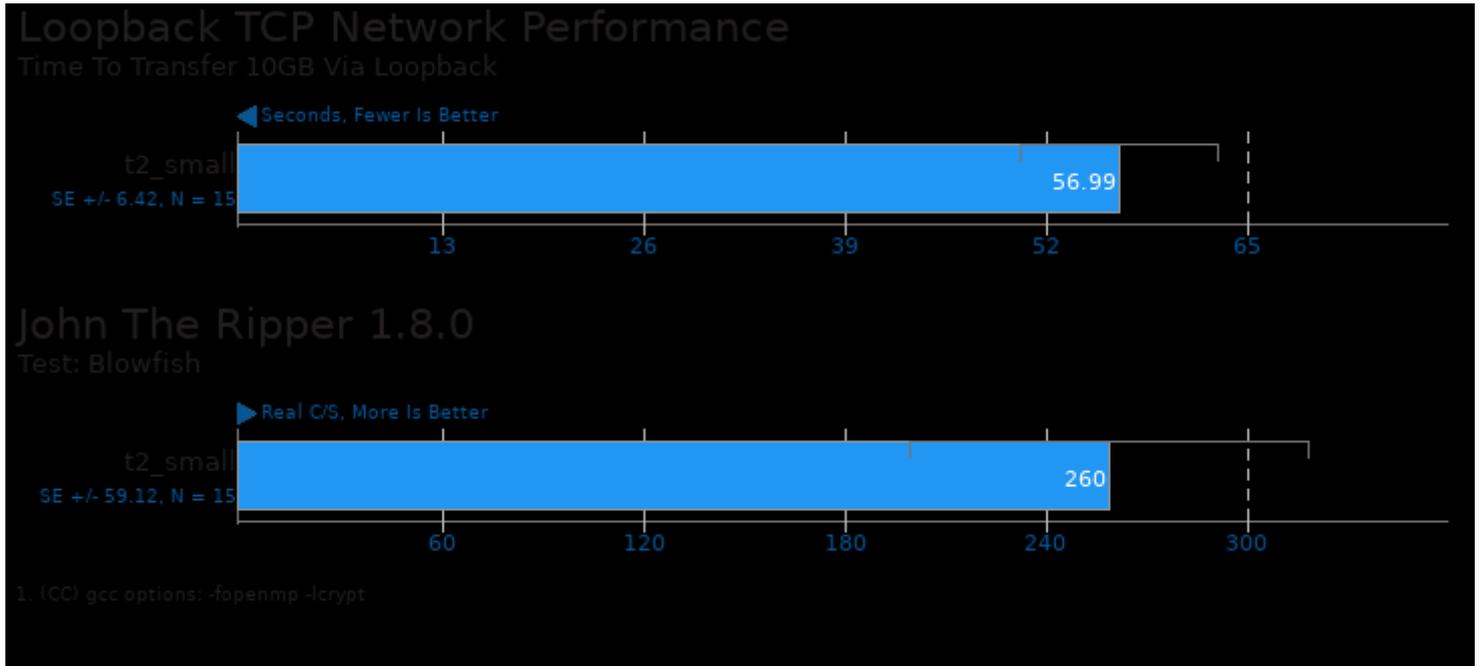
1, (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

Concurrent Requests: 1000



1, (CC) gcc options: -shared -fPIC -O2



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