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cc23assignment2

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

Test Systems:

t2micro

Processor: Intel Xeon E5-2676 v3 (1 Core), Motherboard: Xen HVM domU (4.11.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x GB RAM, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 22.04, Kernel: 5.15.0-1028-aws (x86_64), 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,amdgcn-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: 0x49
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 + 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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

c1medium

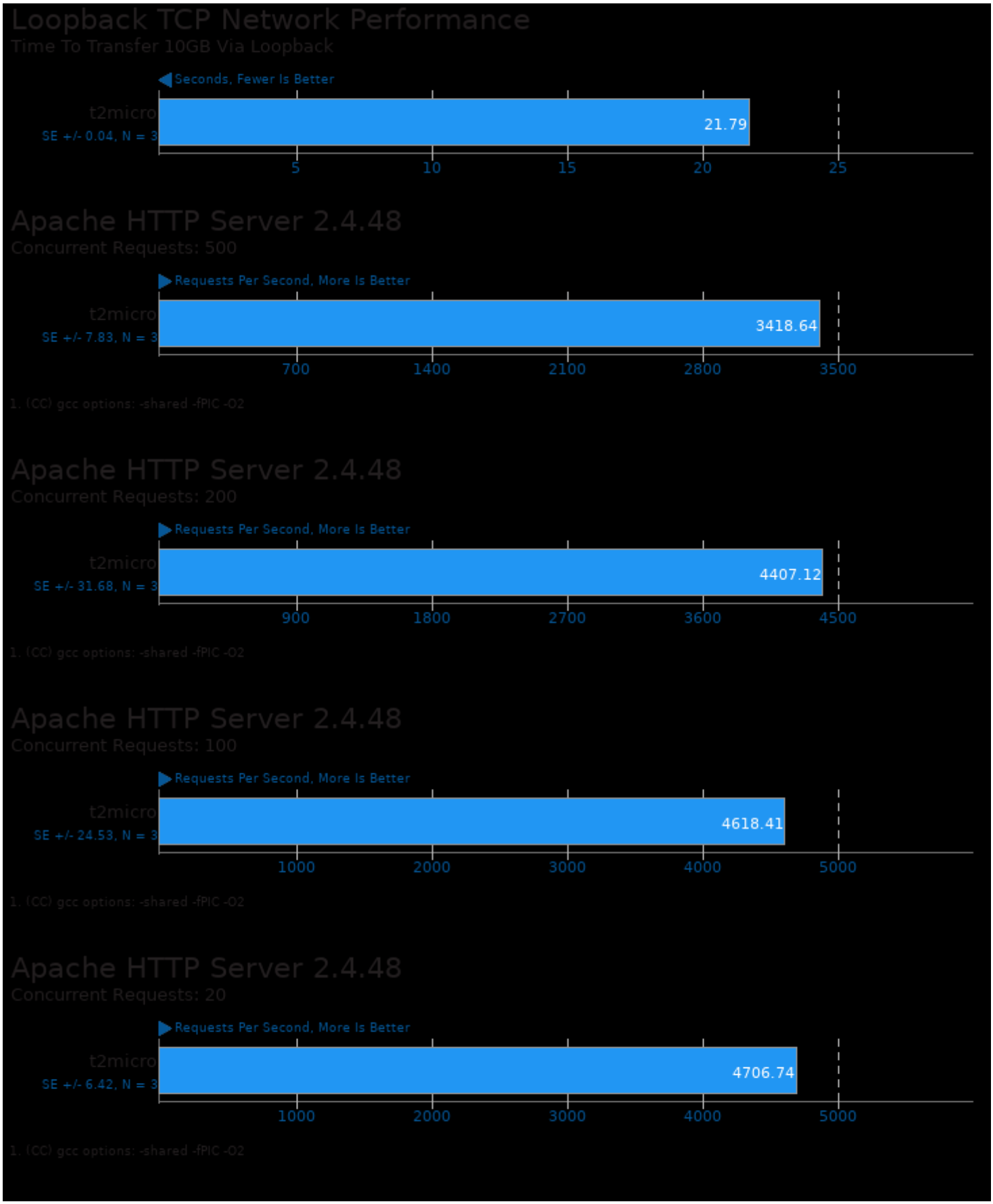
c1_medium

Processor: Intel Xeon E5-2650 0 (2 Cores), Motherboard: Xen HVM domU (4.11.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 1740 MB RAM, Disk: 8GB, Graphics: Cirrus Logic GD 5446

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

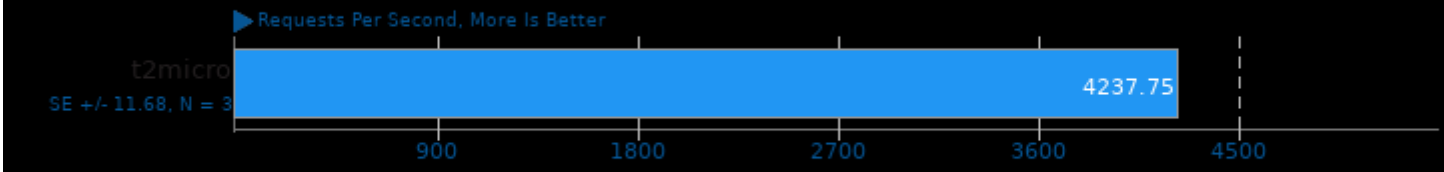
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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,amdgcn-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: 0x621
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 + mmio_stale_data: Unknown: No mitigations + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	t2micro	c1medium	c1_medium
Loopback TCP Network Performance - T.T.T.1.V.L (sec)	21.788		
Standard Deviation	0.3%		
Apache HTTP Server - 500 (Reqs/sec)	3419		
Standard Deviation	0.4%		
Apache HTTP Server - 200 (Reqs/sec)	4407		
Standard Deviation	1.2%		
Apache HTTP Server - 100 (Reqs/sec)	4618		
Standard Deviation	0.9%		
Apache HTTP Server - 20 (Reqs/sec)	4707		
Standard Deviation	0.2%		
Apache HTTP Server - 1 (Reqs/sec)	4238		
Standard Deviation	0.5%		
LAME MP3 Encoding - WAV To MP3 (sec)	14.750		
Standard Deviation	2%		
OpenSSL - RSA4096 (verify/s)	7749		
Standard Deviation	3%		
OpenSSL - RSA4096 (sign/s)	120.0		
Standard Deviation	0.2%		
John The Ripper - Blowfish (Real C/S)	256.1		
Standard Deviation	110.3%		
Apache HTTP Server - 1000 (Reqs/sec)	605.81		
Standard Deviation	154.4%		


Loopback TCP Network Performance
Time To Transfer 10GB Via Loopback
Seconds, Fewer Is Better
t2micro
SE +/- 0.04, N = 3
21.79
5
10
15
20
25
Apache HTTP Server 2.4.48
Concurrent Requests: 500
Requests Per Second, More Is Better
t2micro
SE +/- 7.83, N = 3
3418.64
700
1400
2100
2800
3500
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
Concurrent Requests: 200
Requests Per Second, More Is Better
t2micro
SE +/- 31.68, N = 3
4407.12
900
1800
2700
3600
4500
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
Concurrent Requests: 100
Requests Per Second, More Is Better
t2micro
SE +/- 24.53, N = 3
4618.41
1000
2000
3000
4000
5000
1. (CC) gcc options: -shared -fPIC -O2
Apache HTTP Server 2.4.48
Concurrent Requests: 20
Requests Per Second, More Is Better
t2micro
SE +/- 6.42, N = 3
4706.74
1000
2000
3000
4000
5000
1. (CC) gcc options: -shared -fPIC -O2

Apache HTTP Server 2.4.48

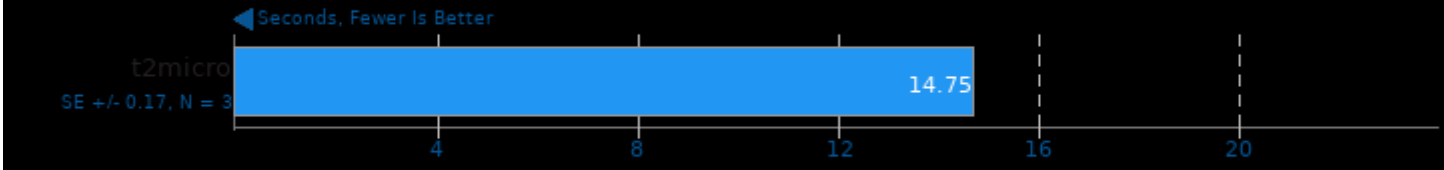
Concurrent Requests: 1



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

LAME MP3 Encoding 3.100

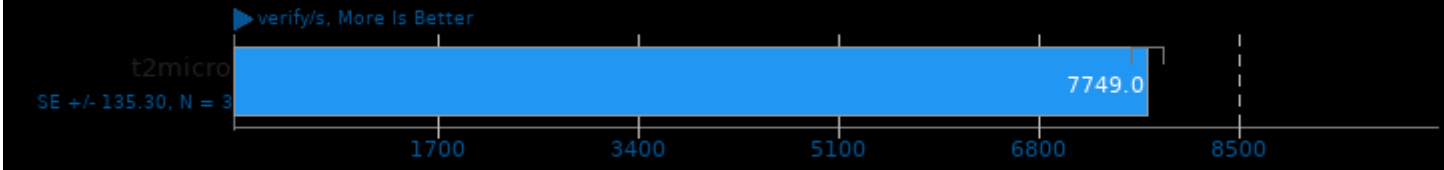
WAV To MP3



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

OpenSSL 3.0

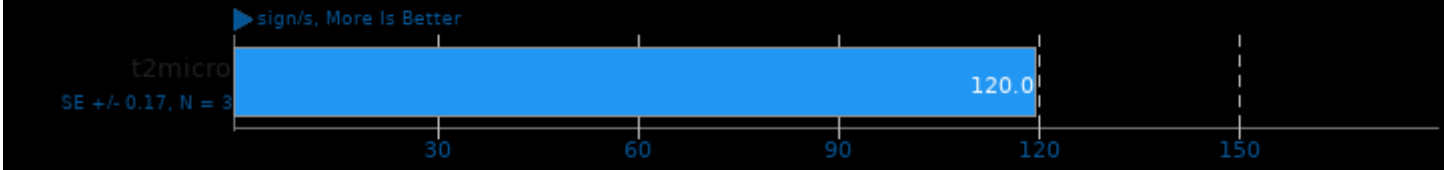
Algorithm: RSA4096



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

OpenSSL 3.0

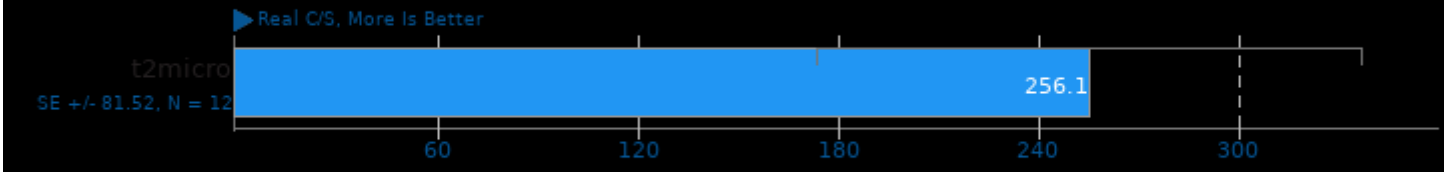
Algorithm: RSA4096



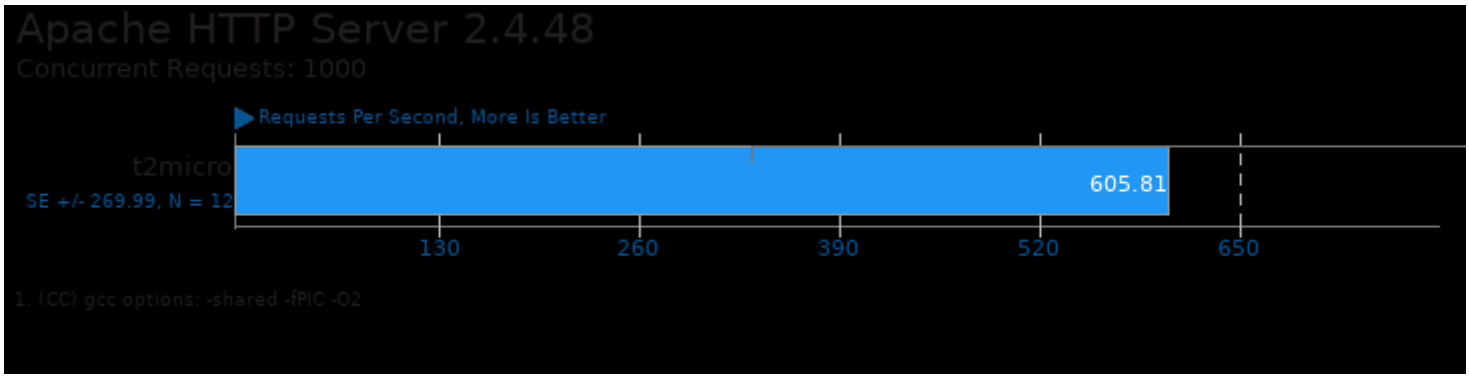
1. (CC) gcc options: -pthread -m64 -O3 -lcrypto -ldl

John The Ripper 1.8.0

Test: Blowfish



1. (CC) gcc options: -fopenmp -lcrypt



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 09:11.