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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-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 + `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 + `rebleed`: 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 PBRSB-eIBRS: Not affected + `srbs`: 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,amdgn-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`

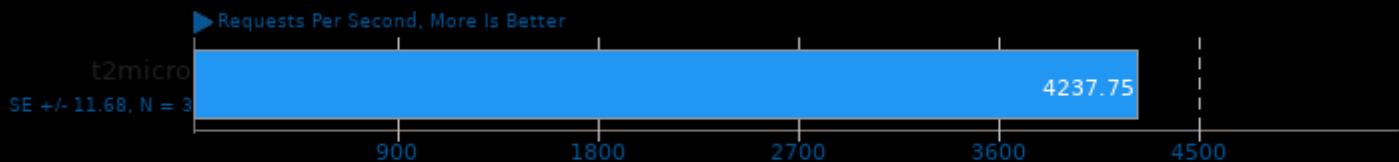
Processor Notes: CPU Microcode: 0x621

Security Notes: `itlb_multihit`: KVM: Mitigation of VMX unsupported + `I1tf`: 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 + `rebleed`: 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 PBRSB-eIBRS: Not affected + `srbs`: Not affected + `tsx_async_abort`: Not affected

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

Apache HTTP Server 2.4.48

Concurrent Requests: 1



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

Apache HTTP Server 2.4.48

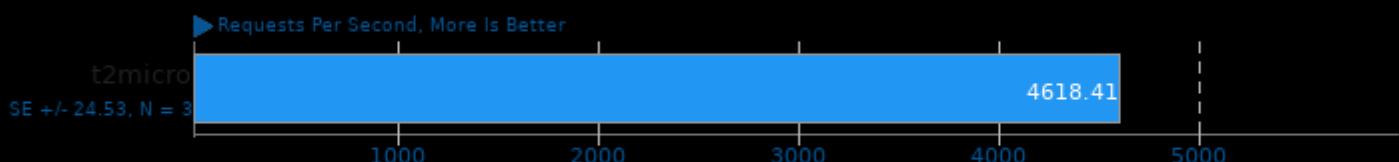
Concurrent Requests: 20



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

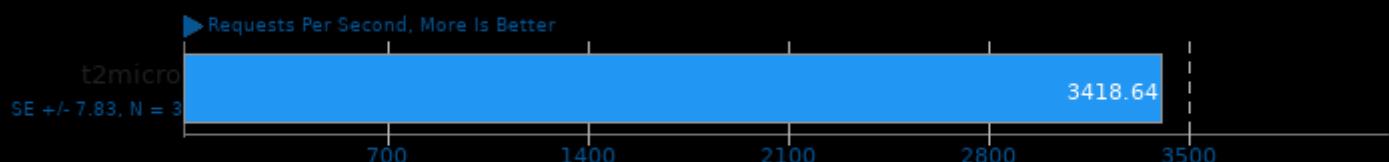
Concurrent Requests: 200



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

Apache HTTP Server 2.4.48

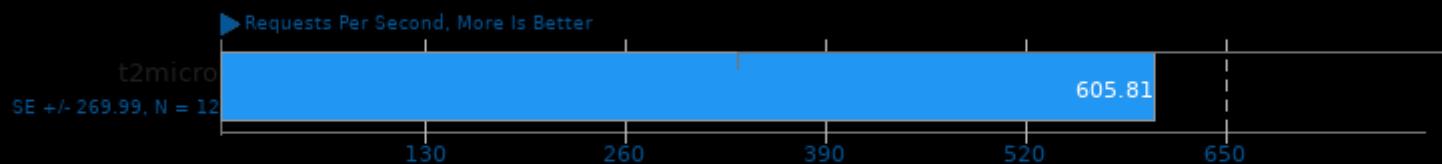
Concurrent Requests: 500



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

Apache HTTP Server 2.4.48

Concurrent Requests: 1000



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

John The Ripper 1.8.0

Test: Blowfish



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

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

Loopback TCP Network Performance

Time To Transfer 10GB Via Loopback



OpenSSL 3.0

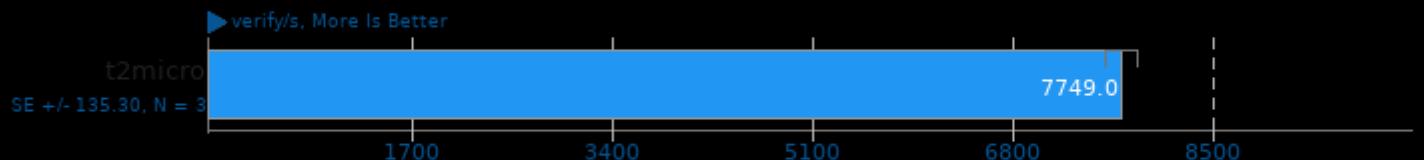
Algorithm: RSA4096



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

OpenSSL 3.0

Algorithm: RSA4096



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Tuesday, 26 September 2023 05:12.