



## CC23assigment2

Xen HVM domU 4.11.amazon testing on Ubuntu 20.04 via the Phoronix Test Suite.

### Automated Executive Summary

*t2.micro.final had the most wins, coming in first place for 50% of the tests.*

*Based on the geometric mean of all complete results, the fastest (t2.micro.final) was 1.001x the speed of the slowest (t2.micro).*

### Test Systems:

#### **t2.micro**

#### **t2.micro.final**

Processor: Intel Xeon E5-2676 v3 (1 Core), Motherboard: Xen HVM domU (4.11.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1024MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 20.04, Kernel: 5.15.0-1028-aws (x86\_64), Vulkan: 1.1.182, Compiler: GCC 9.4.0, 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-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-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-Av3uEd/gcc-9.4.0/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

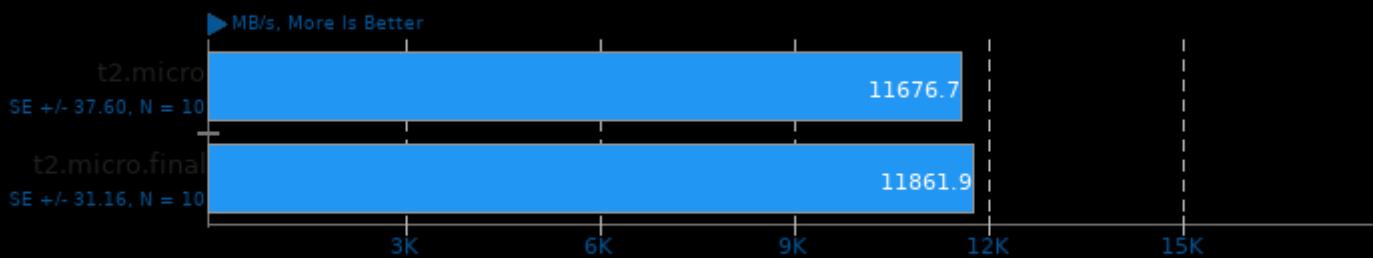
Processor Notes: CPU Microcode: 0x49

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 + 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 + srbds: Not affected + tsx\_async\_abort: Not affected

	t2.micro	t2.micro.final
<b>Stream - Add (MB/s)</b>	<b>11677</b>	<b>11862</b>
Normalized	98.44%	100%
Standard Deviation	1%	0.8%
<b>John The Ripper - Blowfish (Real C/S)</b>	<b>974</b>	<b>973</b>
Normalized	100%	99.9%
Standard Deviation	0.2%	0.1%
<b>OpenSSL - RSA4096 (sign/s)</b>	<b>119.5</b>	<b>119.5</b>
Standard Deviation	1.1%	1.1%
<b>OpenSSL - RSA4096 (verify/s)</b>	<b>7894</b>	<b>7911</b>
Normalized	99.78%	100%
Standard Deviation	0.9%	0%
<b>Loopback TCP Network Performance - T.T.T.1.V.L</b>	<b>22.211</b>	<b>22.539</b>
Normalized	100%	98.54%
Standard Deviation	0.6%	0.4%
<b>LAME MP3 Encoding - WAV To MP3 (sec)</b>	<b>14.113</b>	<b>14.102</b>
Normalized	99.92%	100%
Standard Deviation	0.9%	0.8%

## Stream 2013-01-17

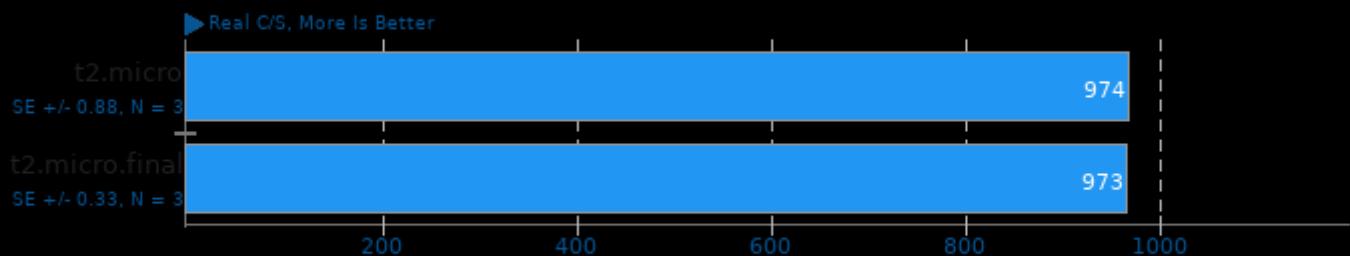
Type: Add



1. (CC) gcc options: -O3 -march=native -fopenmp

## John The Ripper 1.9.0-jumbo-1

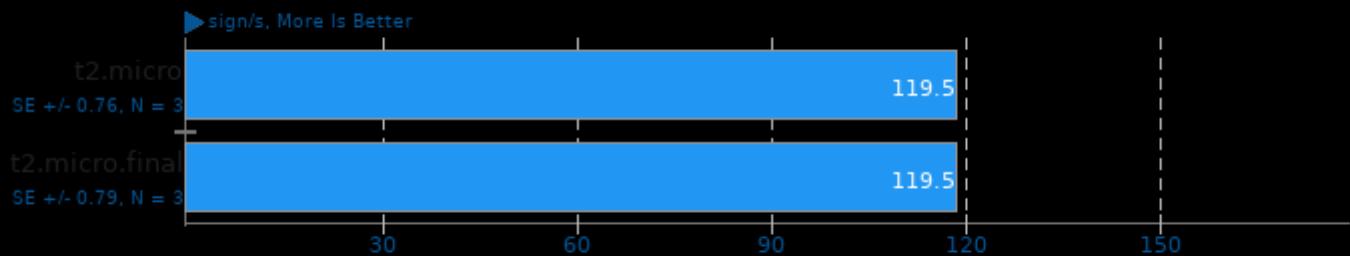
Test: Blowfish



1. (CC) gcc options: -O3 --param std=gnu89

## OpenSSL 3.0

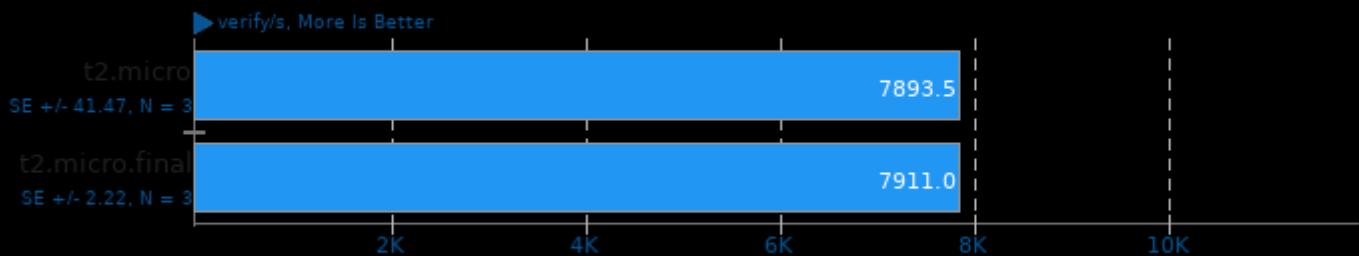
Algorithm: RSA4096



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

## OpenSSL 3.0

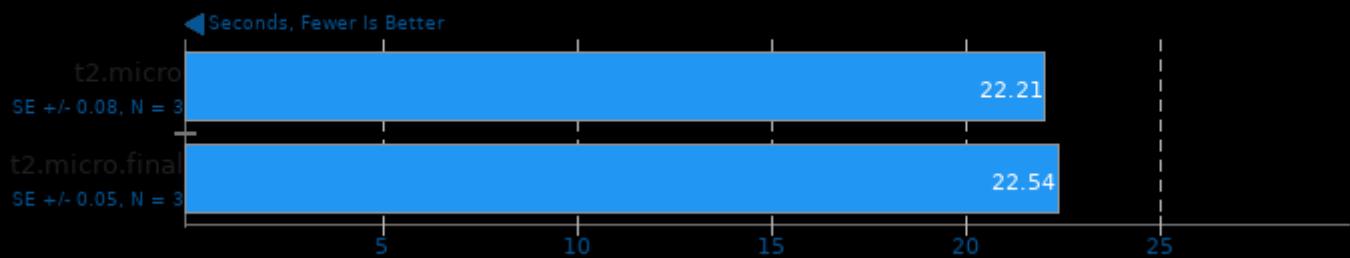
Algorithm: RSA4096



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

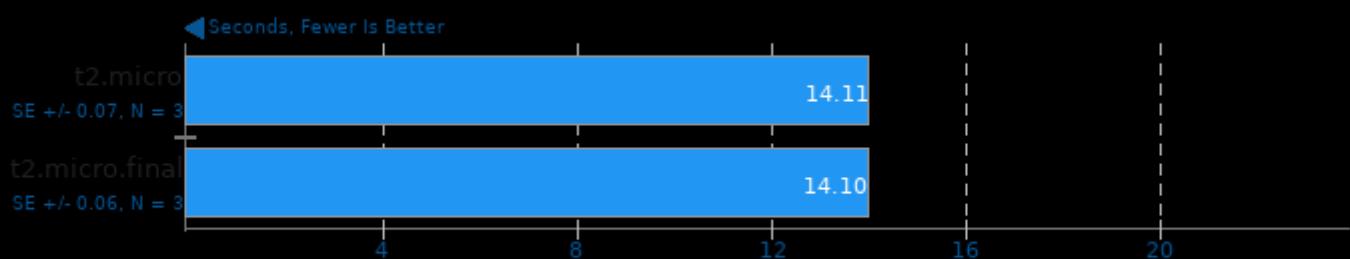
## Loopback TCP Network Performance

Time To Transfer 10GB Via Loopback



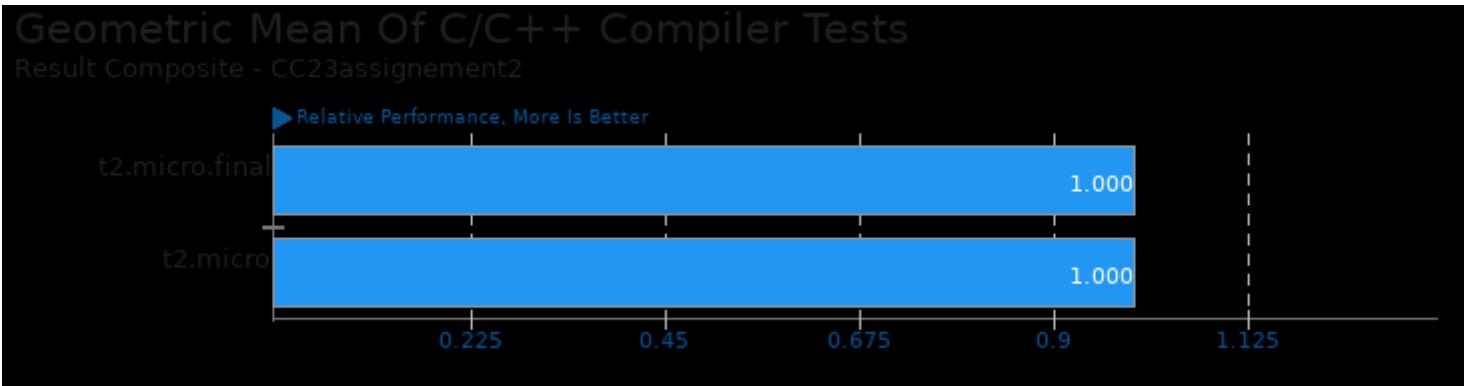
## LAME MP3 Encoding 3.100

WAV To MP3



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

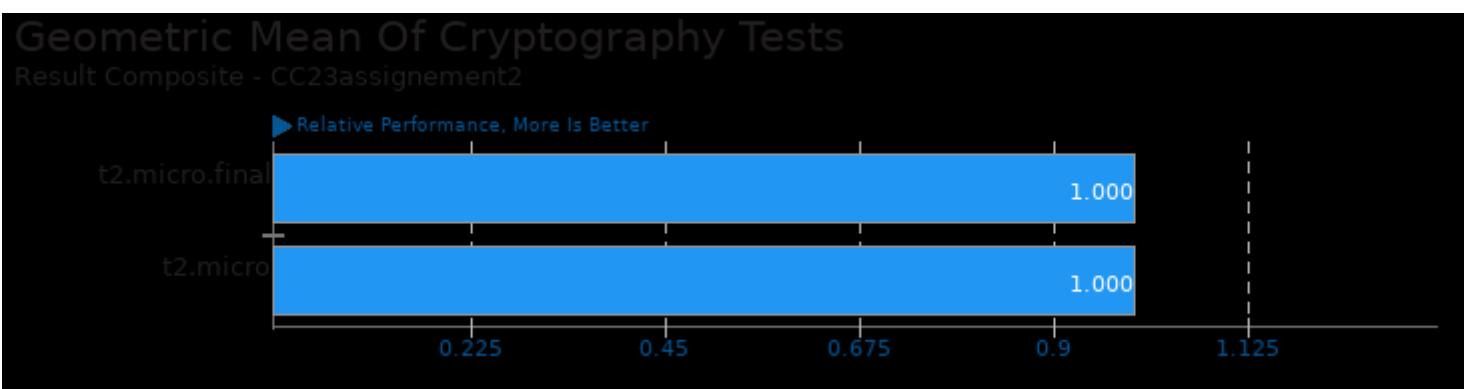
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/encode-mp3, pts/apache, pts/john-the-ripper and pts/openssl



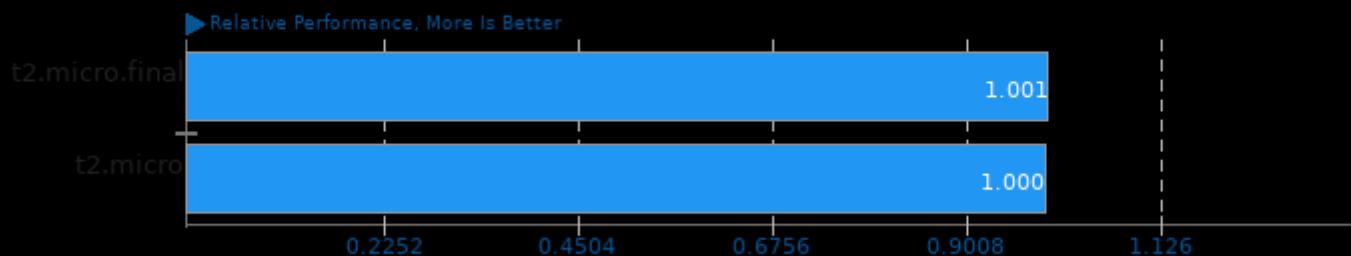
Geometric mean based upon tests: pts/apache, pts/encode-mp3, pts/john-the-ripper, pts/openssl and pts/stream



Geometric mean based upon tests: pts/openssl and pts/john-the-ripper

## Geometric Mean Of Common Kernel Benchmarks Tests

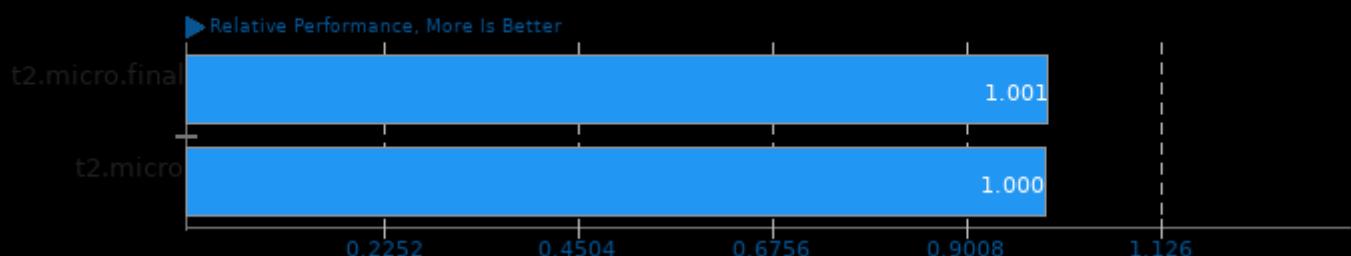
Result Composite - CC23assignment2



Geometric mean based upon tests: pts/apache and pts/openssl

## Geometric Mean Of Server Tests

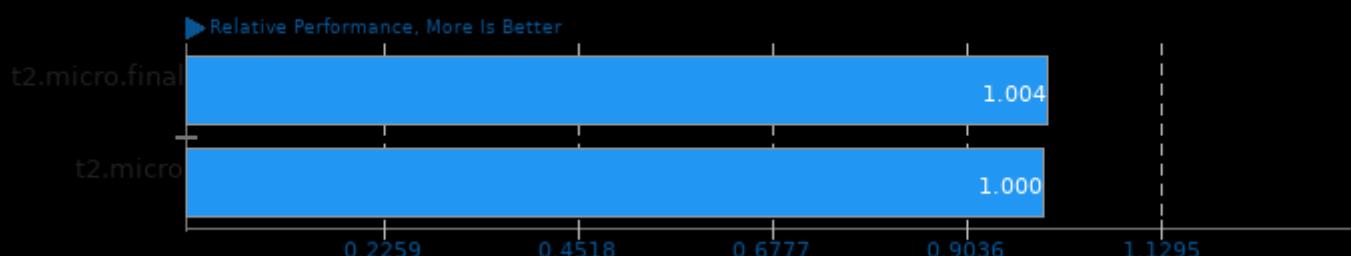
Result Composite - CC23assignment2



Geometric mean based upon tests: pts/apache and pts/openssl

## Geometric Mean Of Server CPU Tests

Result Composite - CC23assignment2



Geometric mean based upon tests: pts/john-the-ripper, pts/openssl and pts/stream

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:32.*