



cc23assignment2

amazon testing on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

Amazon EC2 c6g.large had the most wins, coming in first place for 58% of the tests.

Test Systems:

T4g.medium

ARMv8 Neoverse-N1 - - Amazon EC2 t4g.medium (1.0 BIOS)

Processor: ARMv8 Neoverse-N1 (2 Cores), Motherboard: Amazon EC2 t4g.medium (1.0 BIOS), Chipset: Amazon Device 0200, Memory: 4096MB, Disk: 9GB Amazon Elastic Block Store, Network: Amazon Elastic

OS: Ubuntu 22.04, Kernel: 5.15.0-1028-aws (aarch64), Compiler: GCC 11.3.0, File-System: ext4, System Layer: amazon

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v

Security Notes: itlb_multihit: Not affected + I1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of CSV2 BHB + srbds: Not affected + tsx_async_abort: Not affected

C6g.large

Amazon EC2 c6g.large

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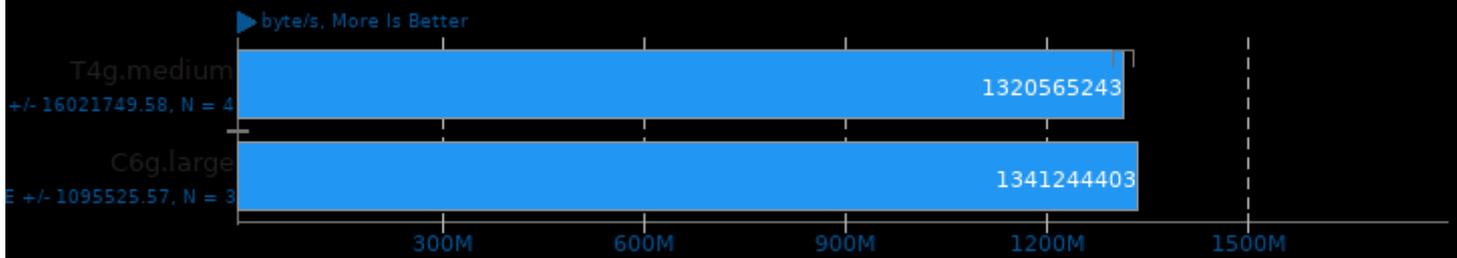
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	T4g.medium	ARMv8 Neoverse-N1 - - Amazon EC2 t4g.medium (1.0 BIOS)	C6g.large	Amazon EC2 c6g.large
OpenSSL - SHA256 (byte/s)	1320565243		1341244403	
Normalized	98.46%		100%	
Standard Deviation	2.4%		0.1%	
OpenSSL - RSA4096 (sign/s)	81.9		82.5	
Normalized	99.27%		100%	
Standard Deviation	1.3%		0%	
OpenSSL - RSA4096 (verify/s)	6689		6741	
Normalized	99.23%		100%	
Standard Deviation	1.3%		0%	
Stream - Add (MB/s)		47055		48104
Normalized		97.82%		100%
Standard Deviation		2.4%		0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	11.490		11.986	
Normalized	100%		95.86%	
Standard Deviation	4.7%		29.5%	
Apache HTTP Server - 1 (Reqs/sec)	4825			5719
Normalized	84.37%			100%
Standard Deviation	0.7%			1.2%

Apache HTTP Server - 20 (Reqs/sec)	8583	9244
Normalized	92.85%	100%
Standard Deviation	0.3%	0.3%
Apache HTTP Server - 100 (Reqs/sec)	8914	9538
Normalized	93.45%	100%
Standard Deviation	0.3%	1.6%
Apache HTTP Server - 200 (Reqs/sec)	8666	9200
Normalized	94.2%	100%
Standard Deviation	0.4%	0.7%
Apache HTTP Server - 500 (Reqs/sec)	8036	8614
Normalized	93.29%	100%
Standard Deviation	0.8%	0.8%
Apache HTTP Server - 1000	8023	8570
Normalized	93.62%	100%
Standard Deviation	1.3%	1.1%
Loopback TCP Network Performance -	20.152	18.455
T.T.T.1.V.L (sec)		
Normalized	91.58%	100%
Standard Deviation	3%	1.7%

OpenSSL 3.0

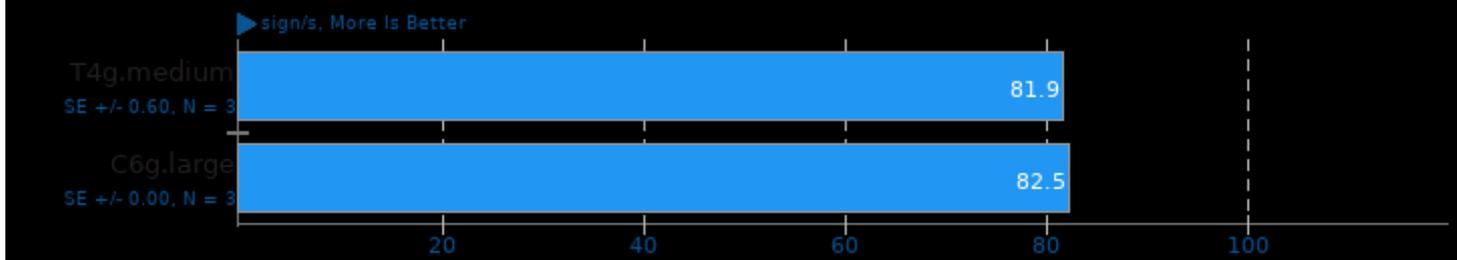
Algorithm: SHA256



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

OpenSSL 3.0

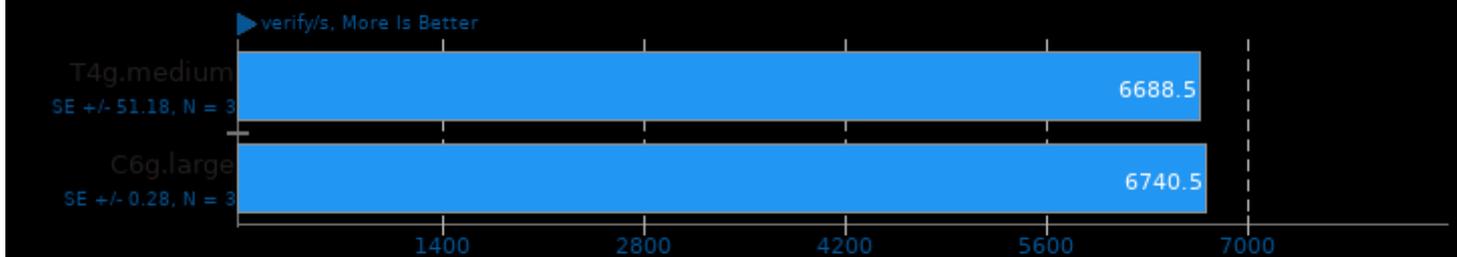
Algorithm: RSA4096



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

OpenSSL 3.0

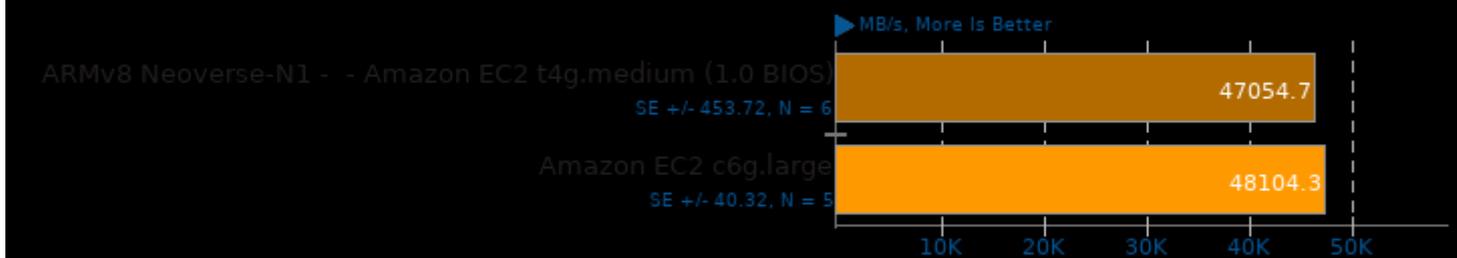
Algorithm: RSA4096



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

Stream 2013-01-17

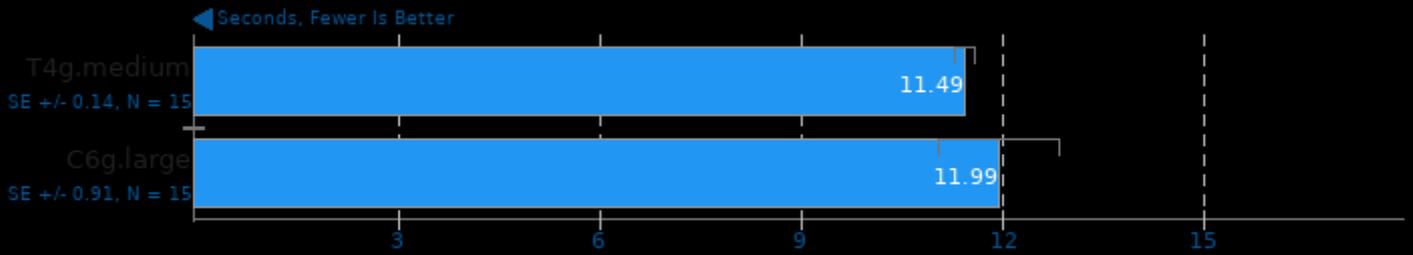
Type: Add



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

LAME MP3 Encoding 3.100

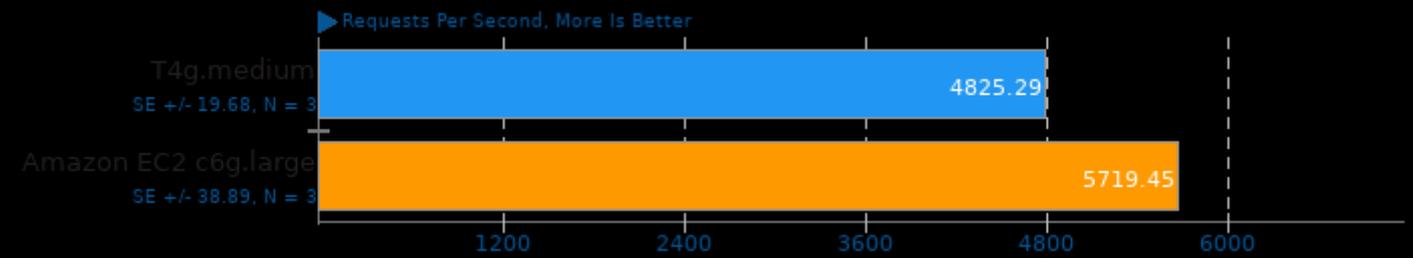
WAV To MP3



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

Apache HTTP Server 2.4.48

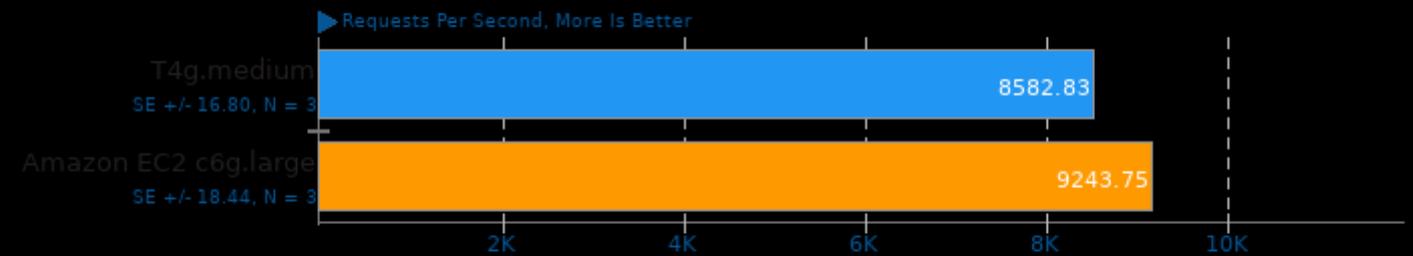
Concurrent Requests: 1



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

Apache HTTP Server 2.4.48

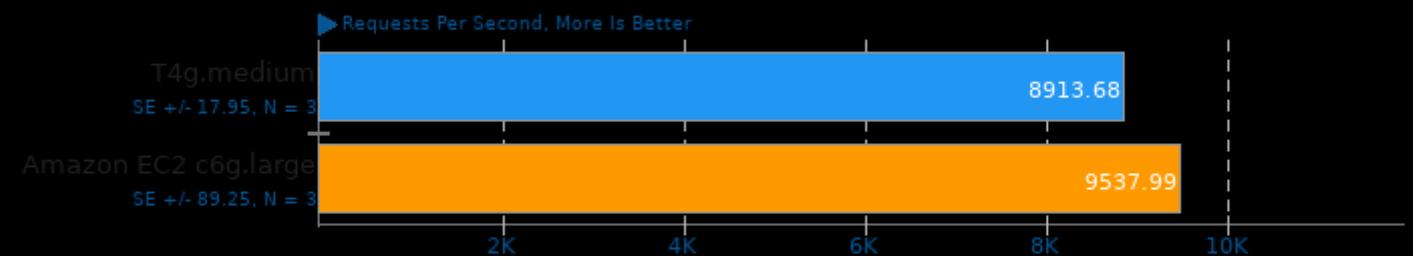
Concurrent Requests: 20



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

Apache HTTP Server 2.4.48

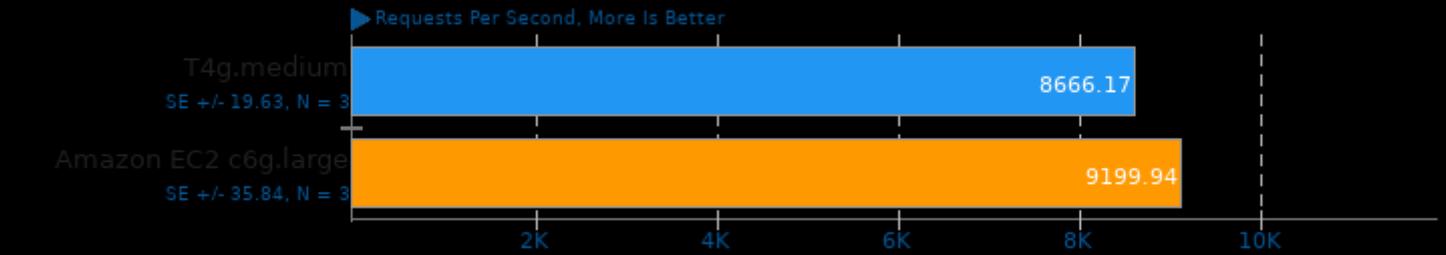
Concurrent Requests: 100



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

Apache HTTP Server 2.4.48

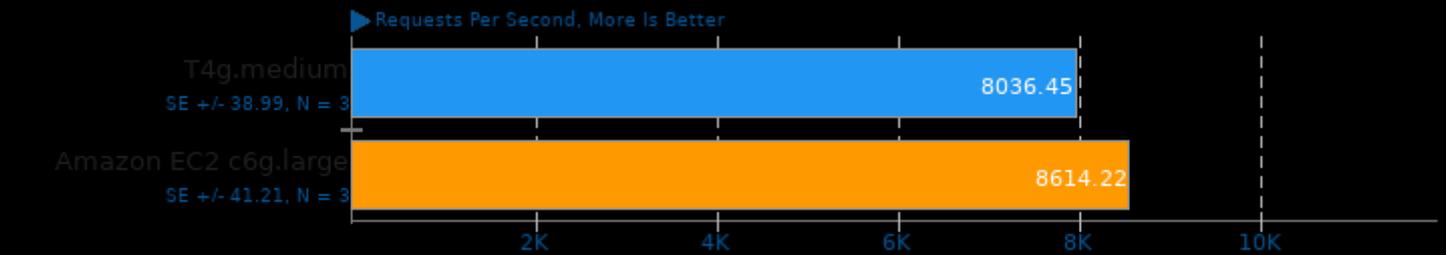
Concurrent Requests: 200



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

Apache HTTP Server 2.4.48

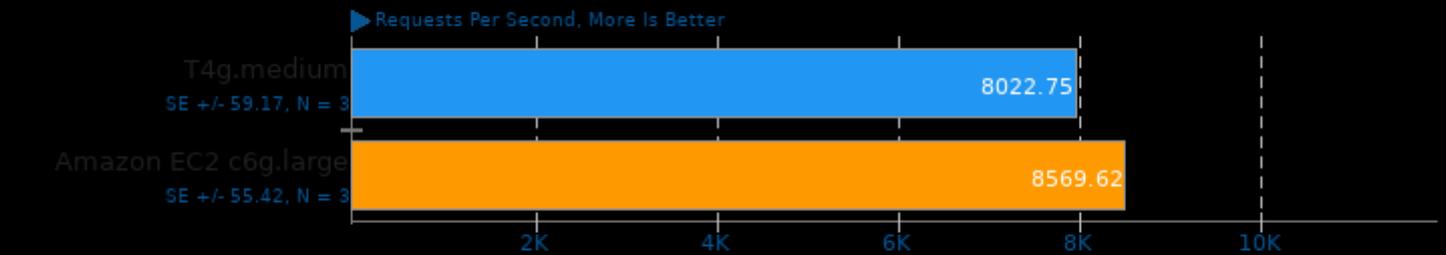
Concurrent Requests: 500



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

Apache HTTP Server 2.4.48

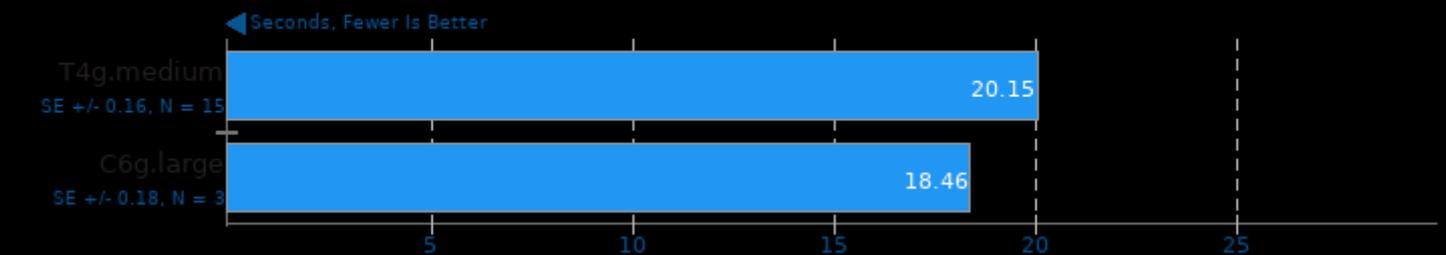
Concurrent Requests: 1000



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

Loopback TCP Network Performance

Time To Transfer 10GB Via Loopback



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:37.