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CC20Assignment2

Xen HVM domU 4.2.amazon testing on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

t2.2xlarge had the most wins, coming in first place for 77% of the tests.

Based on the geometric mean of all complete results, the fastest (t2.2xlarge) was 7.418x the speed of the slowest (t2.micro.third). c5.large was 0.618x the speed of t2.2xlarge, t2.large was 0.82x the speed of c5.large, t2.large.second was 0.993x the speed of t2.large, m4.large was 0.727x the speed of t2.large.second, t2.micro was 0.881x the speed of m4.large, t2.micro.second was 0.988x the speed of t2.micro, a1.large was 0.679x the speed of t2.micro.second, t2.micro.third was 0.623x the speed of a1.large.

Test Systems:

a1.large

Processor: ARMv8 Cortex-A72 (2 Cores), Motherboard: Amazon EC2 a1.large (1.0 BIOS), Chipset: Amazon Device

0200, Memory: 4096MB, Disk: 9GB Amazon Elastic Block Store, Network: Amazon Elastic

OS: Ubuntu 20.04, Kernel: 5.4.0-1038-aws (aarch64), Compiler: GCC 9.3.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --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-default-libstdcxx-abi=new --with-gcc-major-version-only --with-target-system-zlib=auto -v
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Not affected + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Branch predictor hardening + srbds: Not affected + tsx_async_abort: Not affected

t2.large

Processor: Intel Xeon E5-2686 v4 (2 Cores), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 8GB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 20.04, Kernel: 5.4.0-1038-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: Xen HVM domU 4.2.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-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0xb000038
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

m4.large

Processor: Intel Xeon E5-2686 v4 (1 Core / 2 Threads), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 8GB, Disk: 8GB, Graphics: Cirrus Logic GD 5446, Network: Intel 82599 Virtual Function

OS: Ubuntu 20.04, Kernel: 5.4.0-1041-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: Xen HVM domU 4.2.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-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0xb000038
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

t2.2xlarge

Processor: Intel Xeon E5-2686 v4 (8 Cores), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 32GB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 20.04, Kernel: 5.4.0-1041-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: Xen HVM domU 4.2.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-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0xb000038
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

c5.large

Processor: Intel Xeon Platinum 8124M (1 Core / 2 Threads), Motherboard: Amazon EC2 c5.large (1.0 BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 4096MB, Disk: 9GB Amazon Elastic Block Store, Network: Amazon Elastic

OS: Ubuntu 20.04, Kernel: 5.4.0-1038-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: KVM

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-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0x2006906
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown

t2.micro

Processor: Intel Xeon E5-2676 v3 (1 Core), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1024MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 20.04, Kernel: 5.4.0-1038-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: Xen HVM domU 4.2.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-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0x44
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

t2.large.second

Processor: Intel Xeon E5-2686 v4 (2 Cores), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 8GB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

OS: Ubuntu 20.04, Kernel: 5.4.0-1038-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: Xen HVM domU 4.2.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-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0xb000038
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

t2.micro.second

CC20Assignment2

t2.micro.third

Processor: Intel Xeon E5-2676 v3 (1 Core), Motherboard: Xen HVM domU (4.2.amazon BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1024MB, Disk: 8GB, Graphics: Cirrus Logic GD 5446

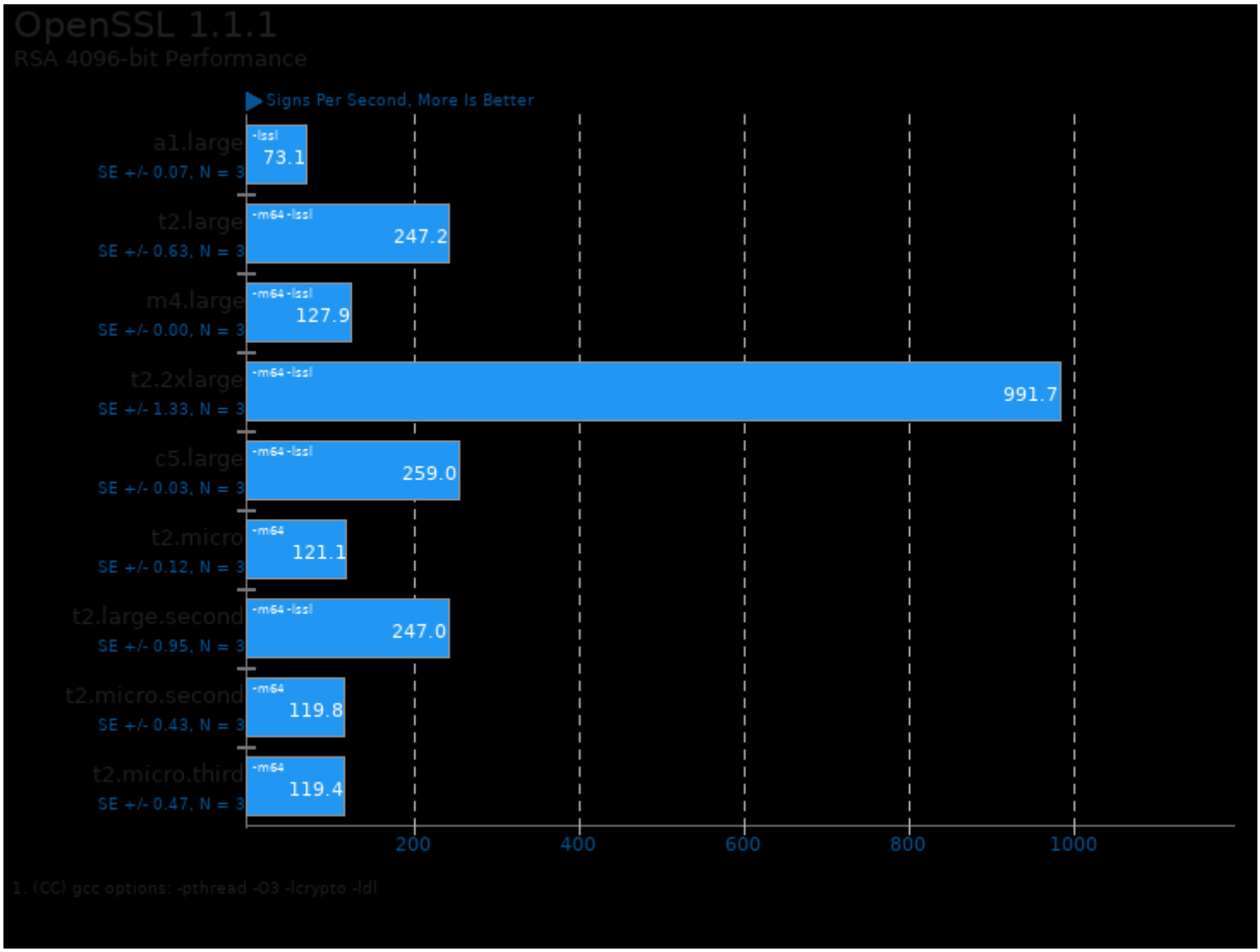
OS: Ubuntu 20.04, Kernel: 5.4.0-1038-aws (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: Xen HVM domU 4.2.amazon

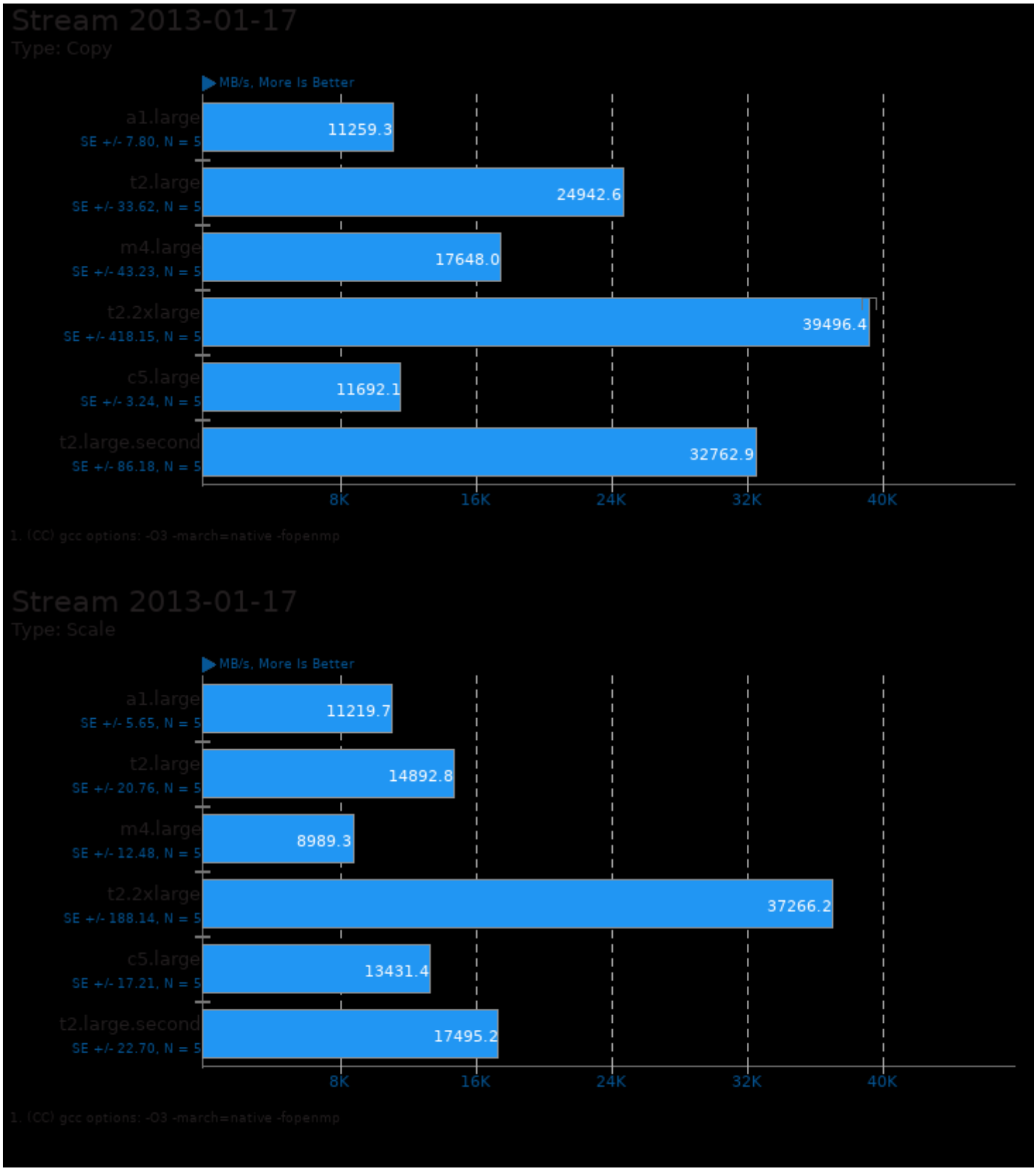
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/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: 0x44
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

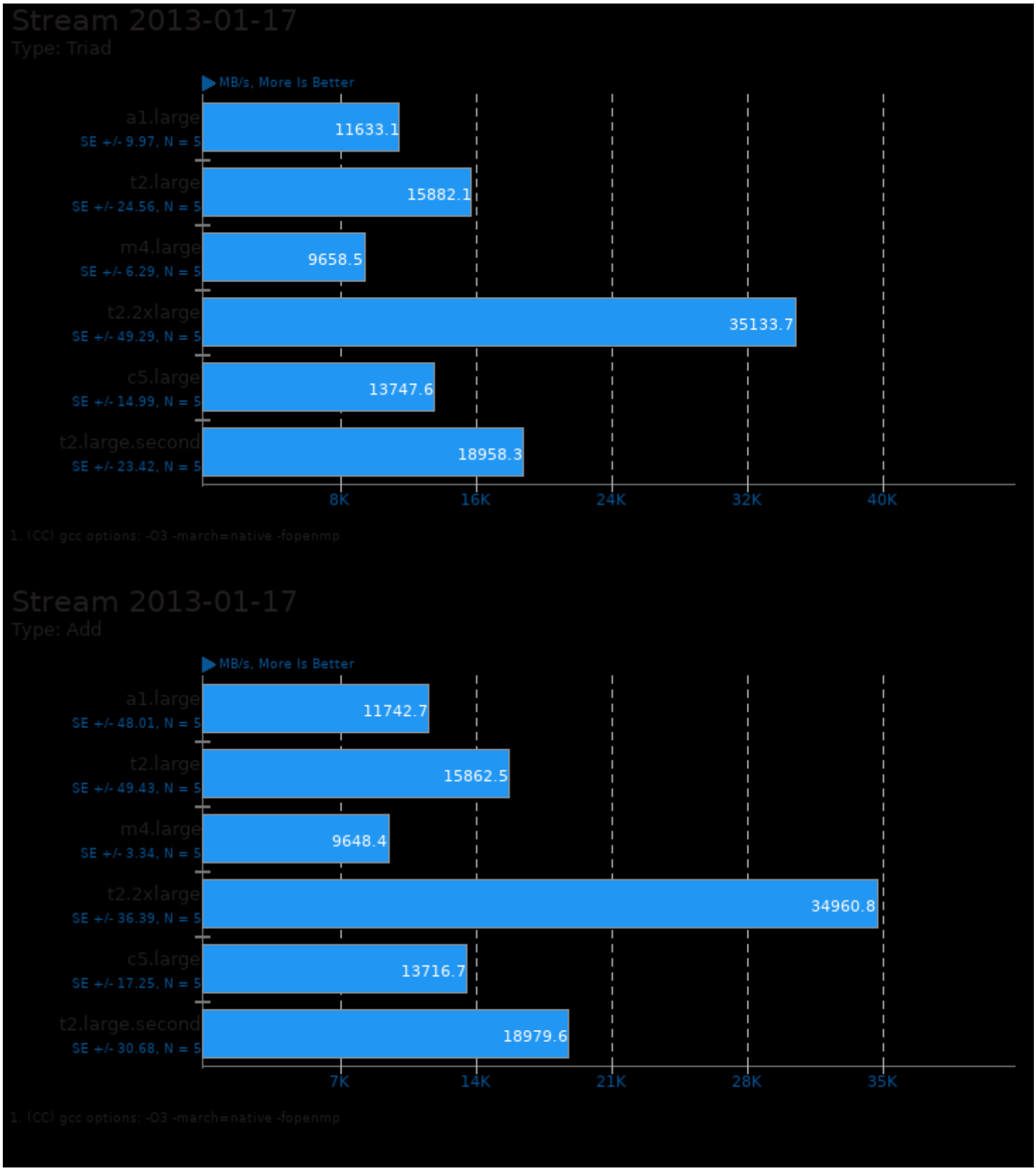
	a1.large	t2.large	m4.large	t2.2xlarge	c5.large	t2.micro	t2.large.second	t2.micro.second	t2.micro.third
OpenSSL - R.4.b.P (Signs/sec)	**73.1**	247.2	127.9	**991.7**	259.0	121.1	247.0	119.8	119.4
Normalized	7.37%	24.93%	12.9%	100%	26.12%	12.21%	24.91%	12.08%	12.04%
Standard Deviation	0.2%	0.4%	0%	0.2%	0%	0.2%	0.7%	0.6%	0.7%
Stream - Copy	**11259**	24943	17648	**39496**	11692		32763		
Normalized	28.51%	63.15%	44.68%	100%	29.6%		82.95%		
Standard Deviation	0.2%	0.3%	0.5%	2.4%	0.1%		0.6%		
Stream - Scale	11220	14893	**8989**	**37266**	13431		17495		
Normalized	30.11%	39.96%	24.12%	100%	36.04%		46.95%		
Standard Deviation	0.1%	0.3%	0.3%	1.1%	0.3%		0.3%		
Stream - Triad (MB/s)	11633	15882	**9659**	**35134**	13748		18958		
Normalized	33.11%	45.2%	27.49%	100%	39.13%		53.96%		
Standard Deviation	0.2%	0.3%	0.1%	0.3%	0.2%		0.3%		
Stream - Add (MB/s)	11743	15863	**9648**	**34961**	13717		18980		
Normalized	33.59%	45.37%	27.6%	100%	39.23%		54.29%		
Standard Deviation	0.9%	0.7%	0.1%	0.2%	0.3%		0.4%		
LAME MP3 Encoding - WAV To MP3 (sec)	**19.041**	13.439	13.419	13.480	**10.902**	14.082	13.465	14.192	14.229
Normalized	57.26%	81.12%	81.24%	80.88%	100%	77.42%	80.97%	76.82%	76.62%
Standard Deviation	2.3%	0.1%	0.2%	0.5%	0.1%	0.5%	0.4%	0.2%	0.2%
Apache Benchmark - S.W.P.S (Reqs/sec)	5302	8590	6592	**15518**	12200	4961	8347	4809	**4252**
Normalized	34.17%	55.36%	42.48%	100%	78.62%	31.97%	53.79%	30.99%	27.4%
Standard Deviation	0.4%	2.2%	0.8%	0.1%	1%	1.9%	0.5%	1.6%	22.2%
Loopback TCP Network Performance -	28.166	17.306	19.325	16.618	**15.465**	22.410	17.387	22.575	**141.581**
Normalized	54.91%	89.36%	80.03%	93.06%	100%	69.01%	88.95%	68.5%	10.92%
Standard Deviation	2.5%	0.7%	0.7%	0.5%	4.3%	0%	0.4%	0.1%	26.7%

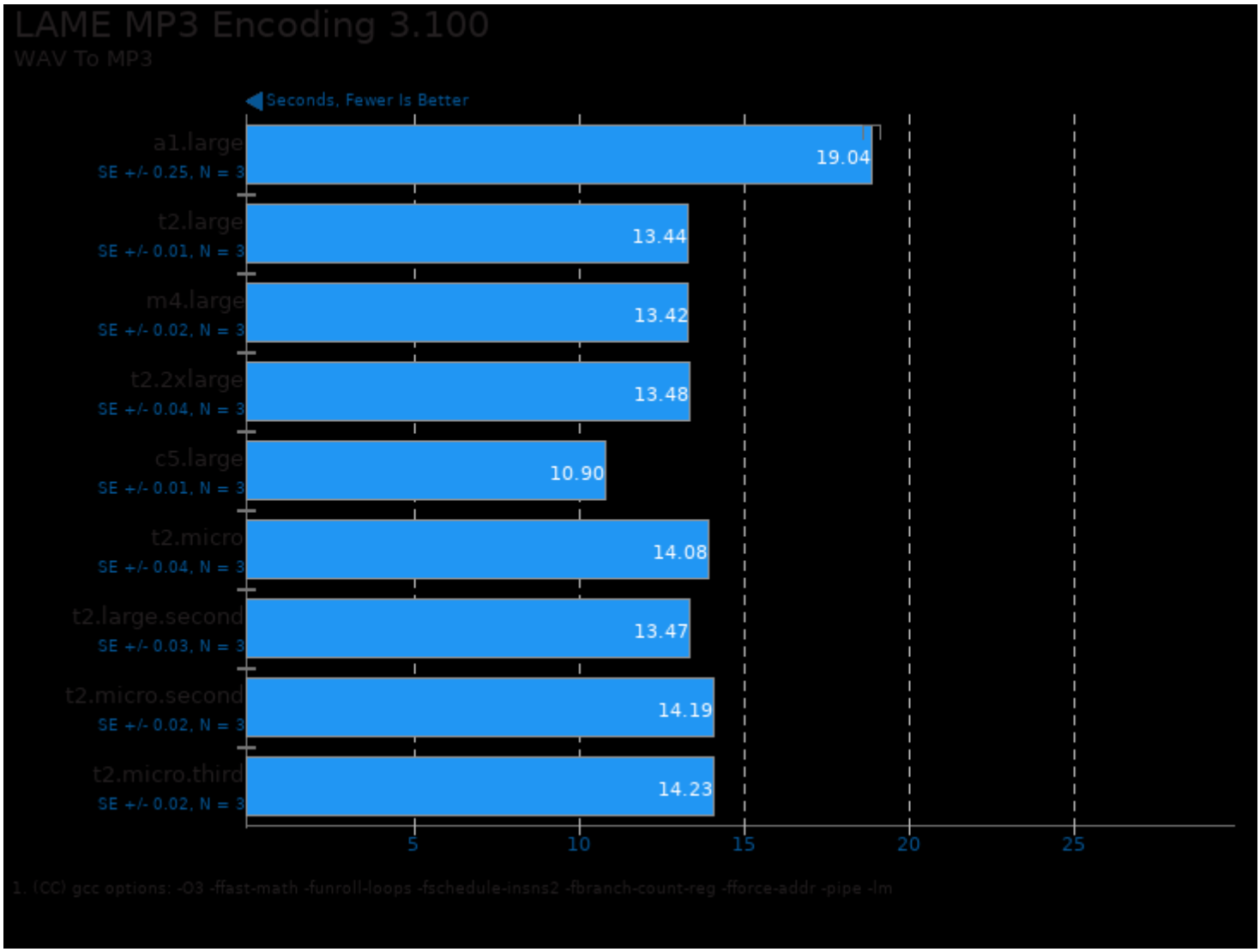
CC20Assignment2

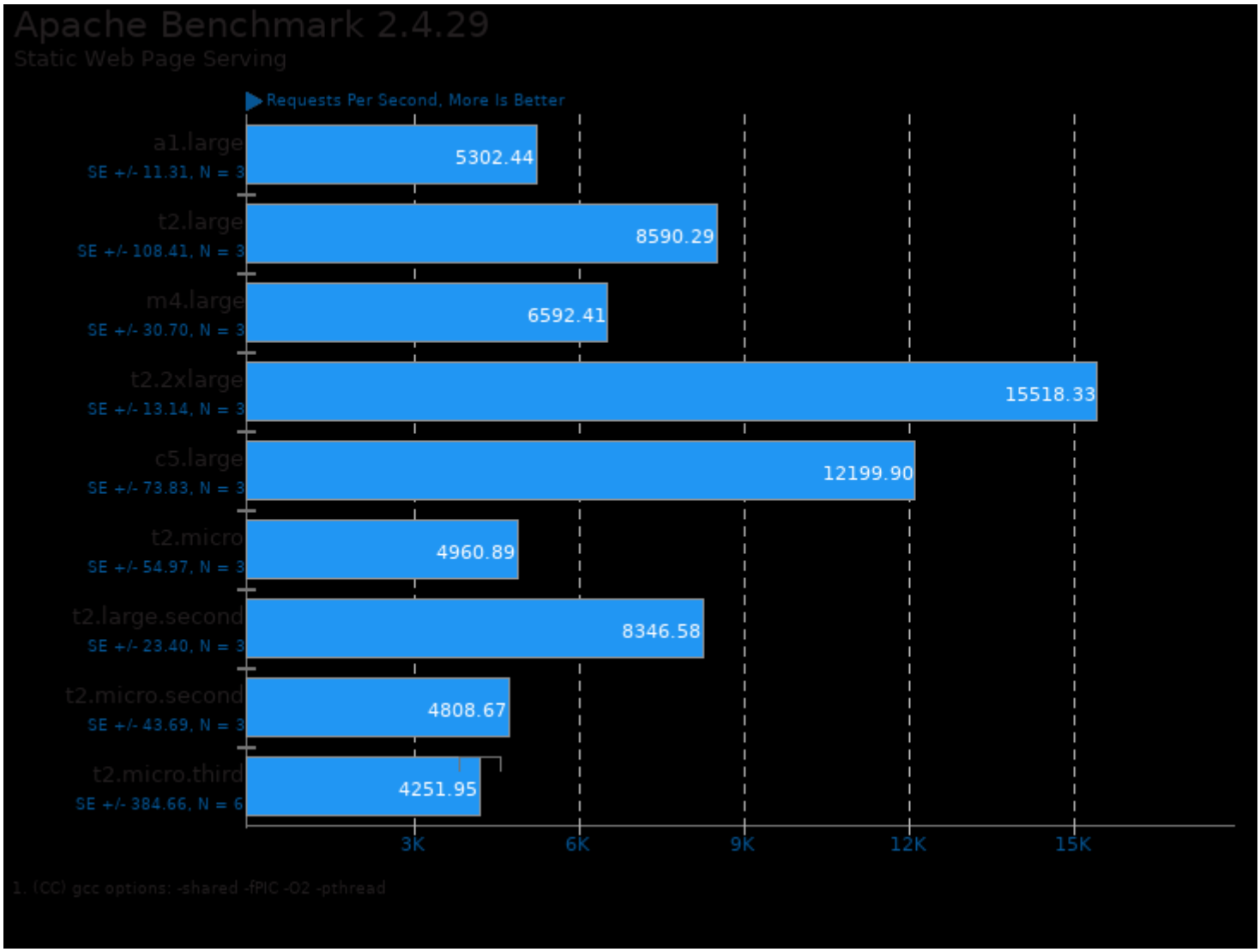
John The Ripper - MD5 (Real C/S)	24462	136610	75328	**542352**	179349	68138	136554	68071	**6581**
Normalized	4.51%	25.19%	13.89%	100%	33.07%	12.56%	25.18%	12.55%	1.21%
Standard Deviation	0%	0.1%	0.1%	0.1%	0.1%	0.6%	0.5%	0.7%	0.4%

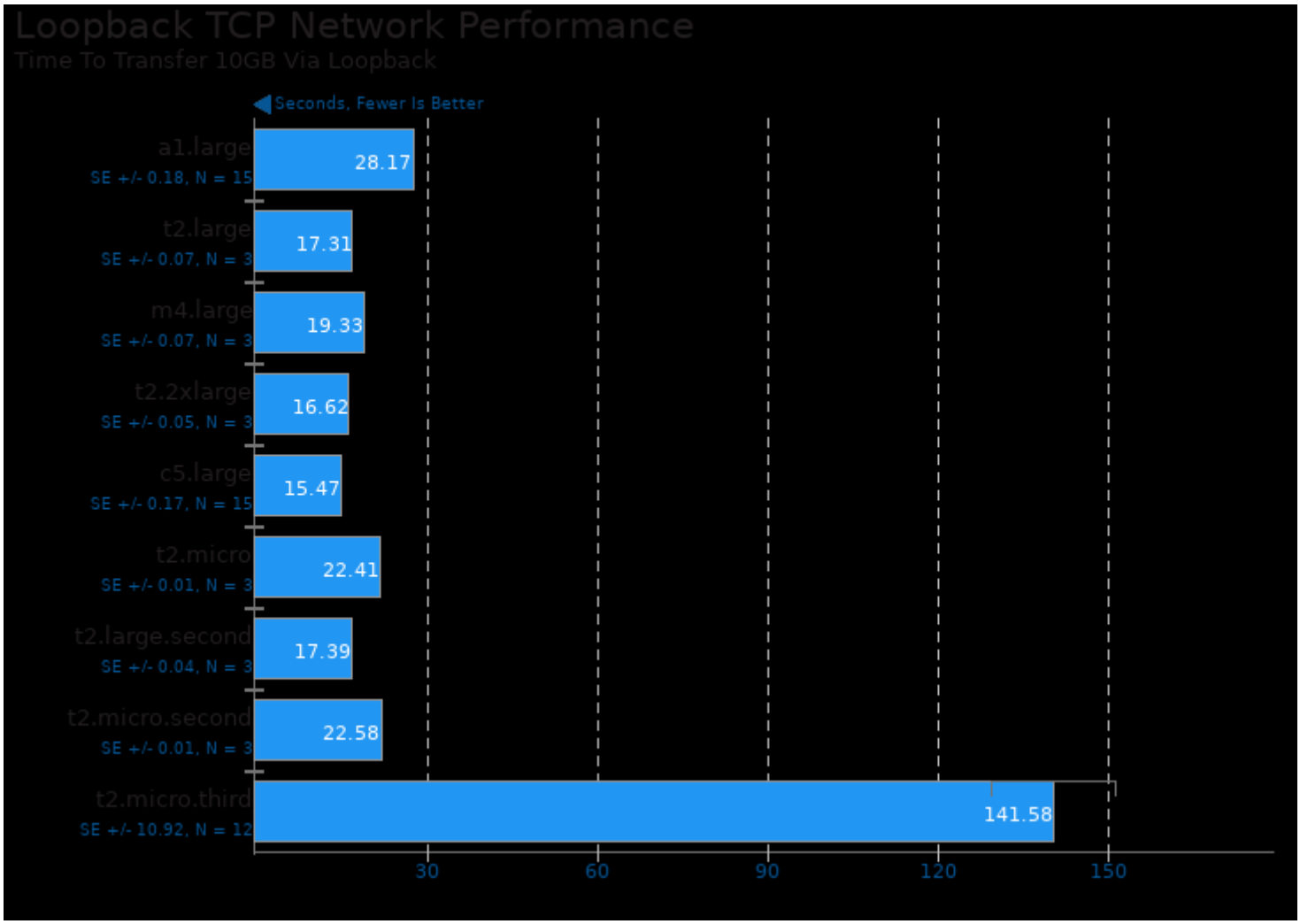

OpenSSL 1.1.1
RSA 4096-bit Performance
Signs Per Second, More Is Better
a1.large
SE +/- 0.07, N = 3
-lssl
73.1
t2.large
SE +/- 0.63, N = 3
-m64 -lssl
247.2
m4.large
SE +/- 0.00, N = 3
-m64 -lssl
127.9
t2.2xlarge
SE +/- 1.33, N = 3
-m64 -lssl
991.7
c5.large
SE +/- 0.03, N = 3
-m64 -lssl
259.0
t2.micro
SE +/- 0.12, N = 3
-m64
121.1
t2.large.second
SE +/- 0.95, N = 3
-m64 -lssl
247.0
t2.micro.second
SE +/- 0.43, N = 3
-m64
119.8
t2.micro.third
SE +/- 0.47, N = 3
-m64
119.4
200
400
600
800
1000
1. (CC) gcc options: -pthread -O3 -lcrypto -ldl

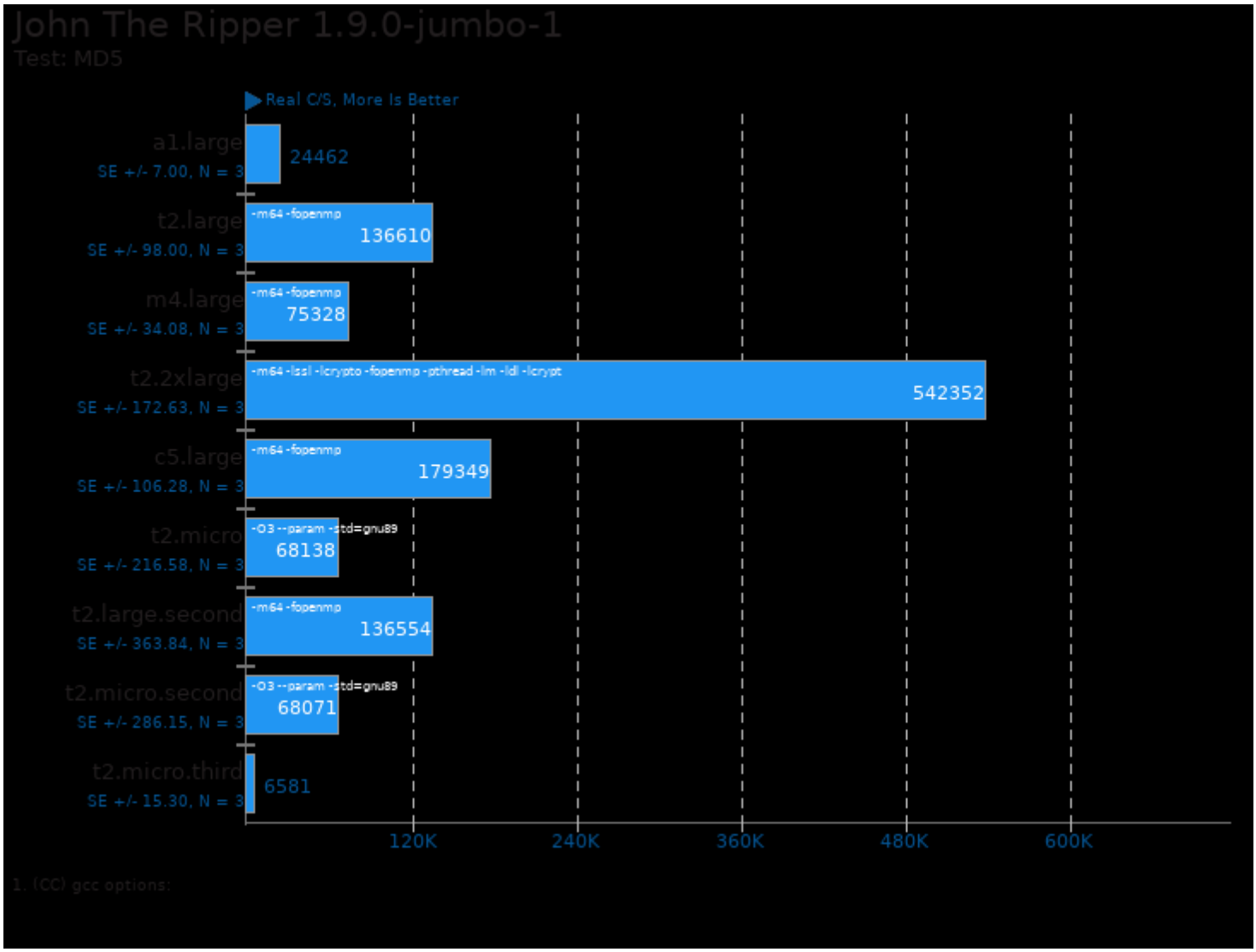

Stream 2013-01-17
Type: Copy
MB/s, More Is Better
a1.large
SE +/- 7.80, N = 5
11259.3
t2.large
SE +/- 33.62, N = 5
24942.6
m4.large
SE +/- 43.23, N = 5
17648.0
t2.2xlarge
SE +/- 418.15, N = 5
39496.4
c5.large
SE +/- 3.24, N = 5
11692.1
t2.large.second
SE +/- 86.18, N = 5
32762.9
8K
16K
24K
32K
40K
1. (CC) gcc options: -O3 -march=native -fopenmp
Stream 2013-01-17
Type: Scale
MB/s, More Is Better
a1.large
SE +/- 5.65, N = 5
11219.7
t2.large
SE +/- 20.76, N = 5
14892.8
m4.large
SE +/- 12.48, N = 5
8989.3
t2.2xlarge
SE +/- 188.14, N = 5
37266.2
c5.large
SE +/- 17.21, N = 5
13431.4
t2.large.second
SE +/- 22.70, N = 5
17495.2
8K
16K
24K
32K
40K
1. (CC) gcc options: -O3 -march=native -fopenmp


Stream 2013-01-17
Type: Triad
MB/s, More Is Better
a1.large
SE +/- 9.97, N = 5
11633.1
t2.large
SE +/- 24.56, N = 5
15882.1
m4.large
SE +/- 6.29, N = 5
9658.5
t2.2xlarge
SE +/- 49.29, N = 5
35133.7
c5.large
SE +/- 14.99, N = 5
13747.6
t2.large.second
SE +/- 23.42, N = 5
18958.3
8K
16K
24K
32K
40K
1. (CC) gcc options: -O3 -march=native -fopenmp
Stream 2013-01-17
Type: Add
MB/s, More Is Better
a1.large
SE +/- 48.01, N = 5
11742.7
t2.large
SE +/- 49.43, N = 5
15862.5
m4.large
SE +/- 3.34, N = 5
9648.4
t2.2xlarge
SE +/- 36.39, N = 5
34960.8
c5.large
SE +/- 17.25, N = 5
13716.7
t2.large.second
SE +/- 30.68, N = 5
18979.6
7K
14K
21K
28K
35K
1. (CC) gcc options: -O3 -march=native -fopenmp

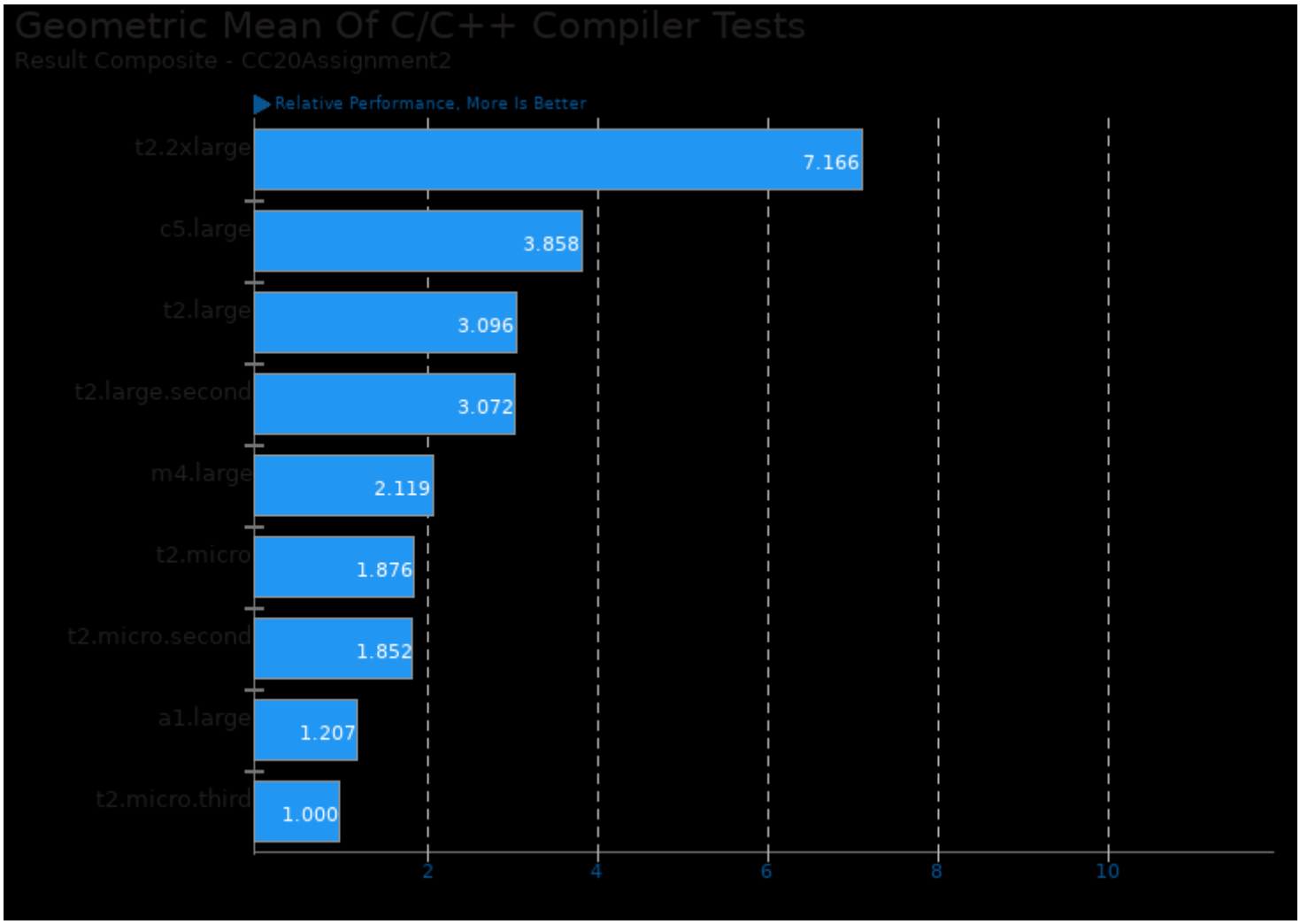

LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
a1.large
SE +/- 0.25, N = 3
19.04
t2.large
SE +/- 0.01, N = 3
13.44
m4.large
SE +/- 0.02, N = 3
13.42
t2.2xlarge
SE +/- 0.04, N = 3
13.48
c5.large
SE +/- 0.01, N = 3
10.90
t2.micro
SE +/- 0.04, N = 3
14.08
t2.large.second
SE +/- 0.03, N = 3
13.47
t2.micro.second
SE +/- 0.02, N = 3
14.19
t2.micro.third
SE +/- 0.02, N = 3
14.23
5
10
15
20
25
1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm


Apache Benchmark 2.4.29
Static Web Page Serving
Requests Per Second, More Is Better
a1.large
SE +/- 11.31, N = 3
5302.44
t2.large
SE +/- 108.41, N = 3
8590.29
m4.large
SE +/- 30.70, N = 3
6592.41
t2.2xlarge
SE +/- 13.14, N = 3
15518.33
c5.large
SE +/- 73.83, N = 3
12199.90
t2.micro
SE +/- 54.97, N = 3
4960.89
t2.large.second
SE +/- 23.40, N = 3
8346.58
t2.micro.second
SE +/- 43.69, N = 3
4808.67
t2.micro.third
SE +/- 384.66, N = 6
4251.95
3K
6K
9K
12K
15K
1. (CC) gcc options: -shared -fPIC -O2 -pthread


Loopback TCP Network Performance
Time To Transfer 10GB Via Loopback
Seconds, Fewer Is Better
a1.large
SE +/- 0.18, N = 15
28.17
t2.large
SE +/- 0.07, N = 3
17.31
m4.large
SE +/- 0.07, N = 3
19.33
t2.2xlarge
SE +/- 0.05, N = 3
16.62
c5.large
SE +/- 0.17, N = 15
15.47
t2.micro
SE +/- 0.01, N = 3
22.41
t2.large.second
SE +/- 0.04, N = 3
17.39
t2.micro.second
SE +/- 0.01, N = 3
22.58
t2.micro.third
SE +/- 10.92, N = 12
141.58
30
60
90
120
150

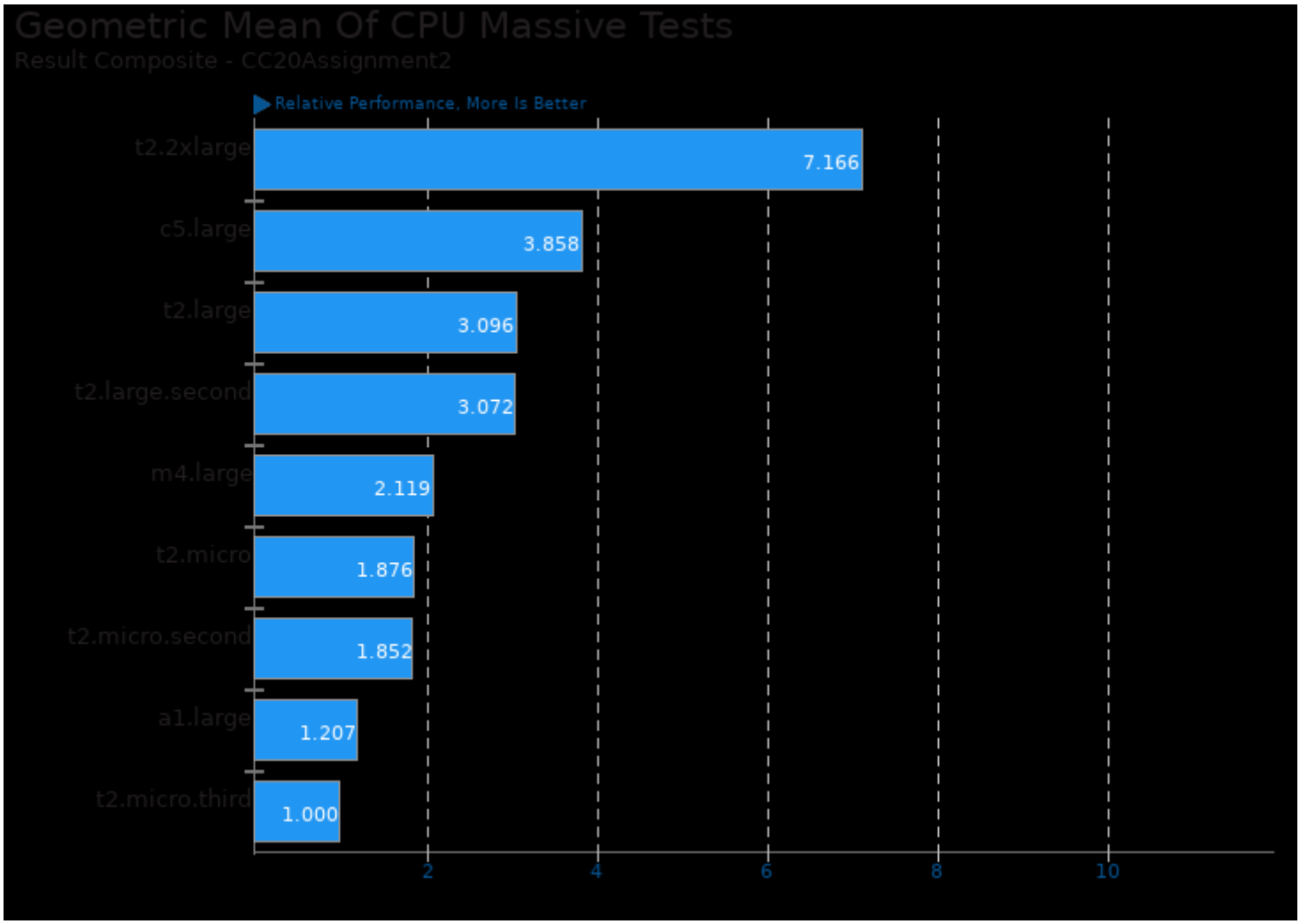

John The Ripper 1.9.0-jumbo-1
Test: MD5
Real C/S, More Is Better
a1.large
SE +/- 7.00, N = 3
24462
t2.large
SE +/- 98.00, N = 3
-m64 -fopenmp
136610
m4.large
SE +/- 34.08, N = 3
-m64 -fopenmp
75328
t2.2xlarge
SE +/- 172.63, N = 3
-m64 -lssl -lcrypto -fopenmp -pthread -lm -ldl -lcrypt
542352
c5.large
SE +/- 106.28, N = 3
-m64 -fopenmp
179349
t2.micro
SE +/- 216.58, N = 3
-O3 --param -std=gnu89
68138
t2.large.second
SE +/- 363.84, N = 3
-m64 -fopenmp
136554
t2.micro.second
SE +/- 286.15, N = 3
-O3 --param -std=gnu89
68071
t2.micro.third
SE +/- 15.30, N = 3
6581
120K
240K
360K
480K
600K
1. (CC) gcc options:

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

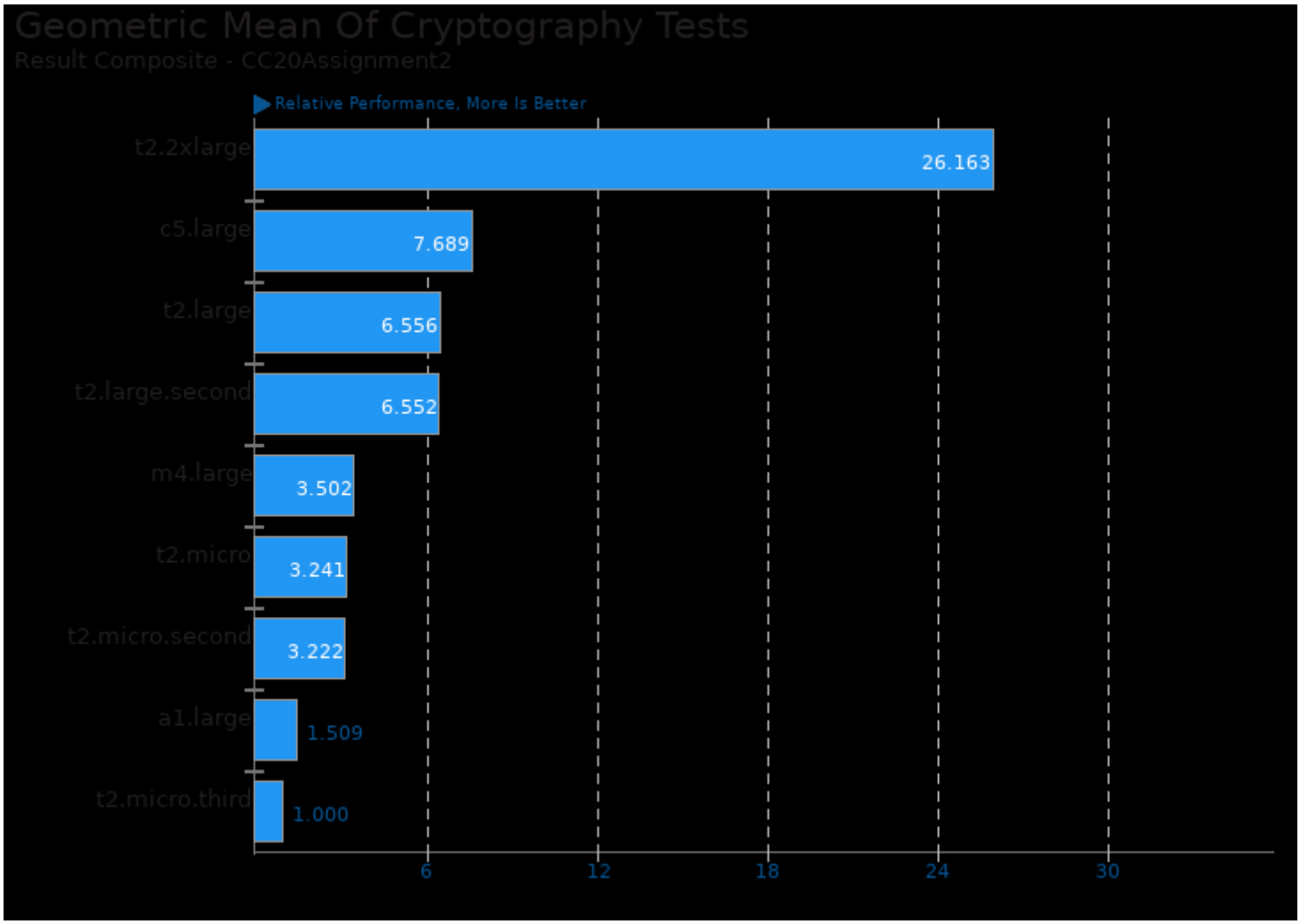


Geometric mean based upon tests: pts/encode-mp3, pts/apache, pts/john-the-ripper and pts/openssl

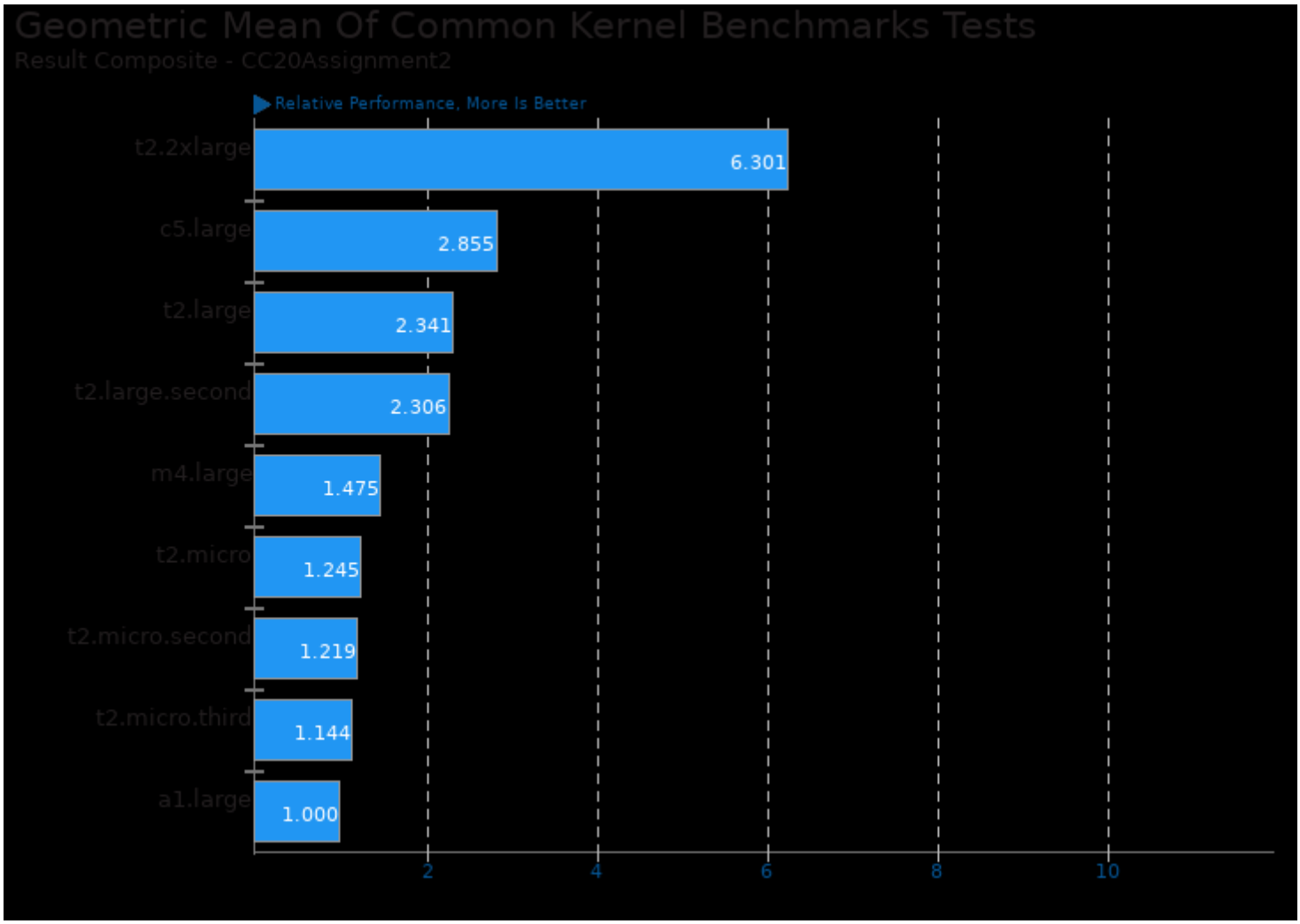
CC20Assignment2



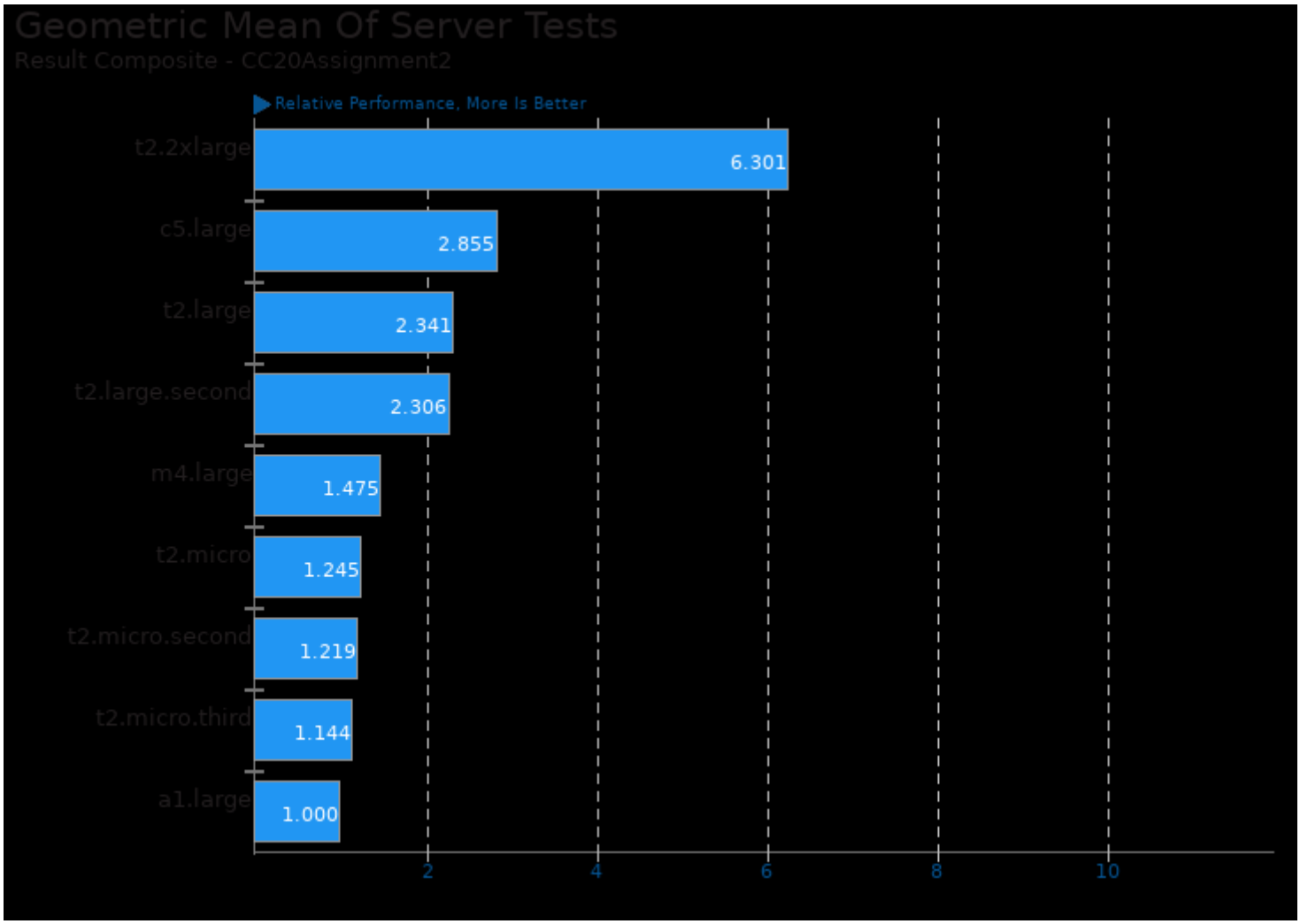
Geometric mean based upon tests: pts/apache, pts/encode-mp3, pts/john-the-ripper, pts/openssl and pts/stream



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

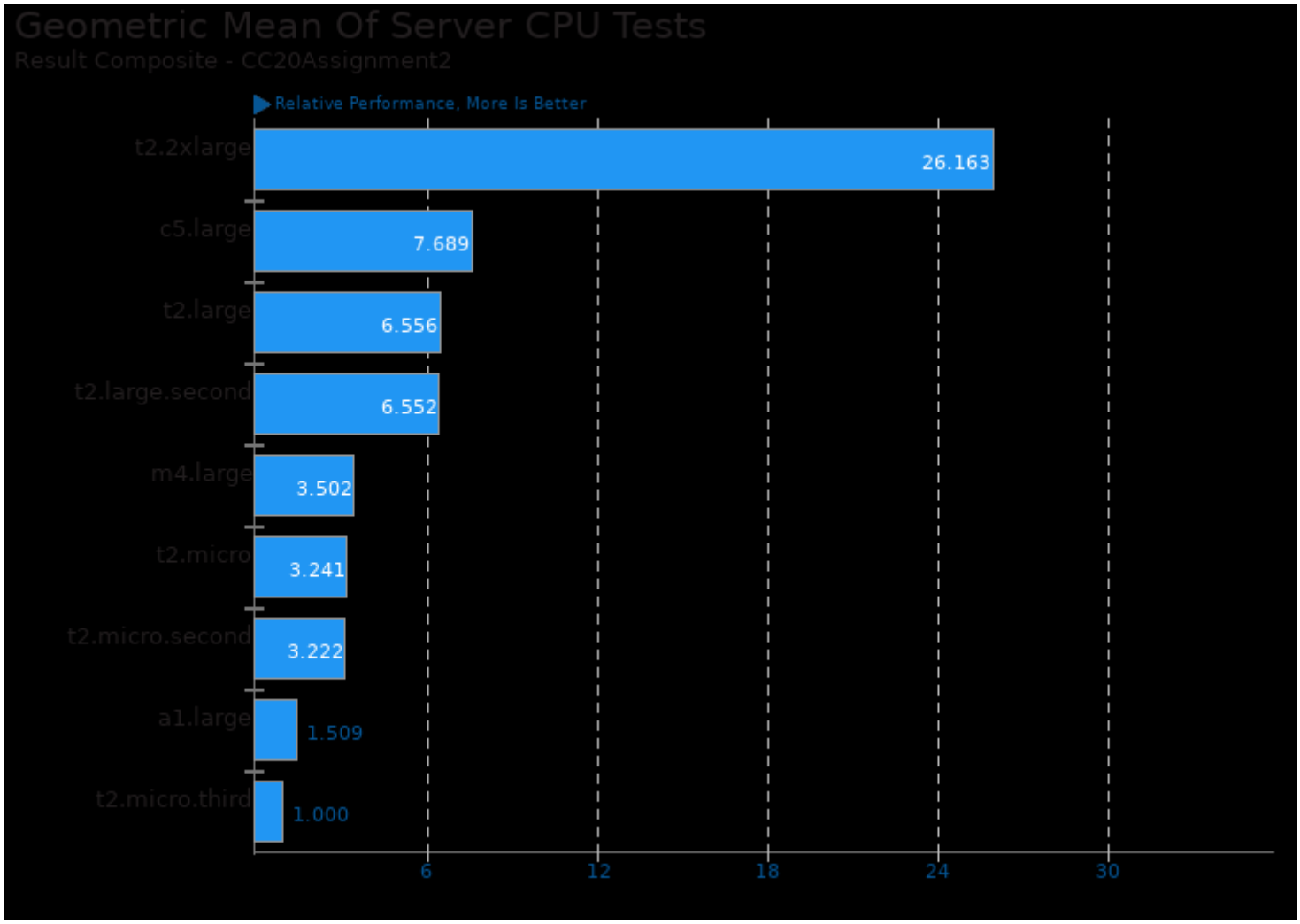


Geometric mean based upon tests: pts/apache and pts/openssl



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

CC20Assignment2



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 Thursday, 28 March 2024 06:38.