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Load Power

Intel Core i7-3517U testing with a ASUS UX32VDA v1.0 and Intel Ivybridge Mobile 1536MB on Ubuntu 17.10 via the Phoronix Test Suite.

Automated Executive Summary

Ubuntu 17.10 Stock had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (Linux 4.15 + TLP) was 1.012x the speed of the slowest (Ubuntu 17.10 Stock). Linux 4.15 + PowerTop was 0.995x the speed of Linux 4.15 + TLP, Linux 4.15 was 0.997x the speed of Linux 4.15 + PowerTop, Ubuntu 17.10 Stock was 0.996x the speed of Linux 4.15.

Test Systems:

Ubuntu 17.10 Stock

Processor: Intel Core i7-3517U @ 3.00GHz (2 Cores / 4 Threads), Motherboard: ASUS UX32VDA v1.0, Chipset: Intel 3rd Gen Core DRAM, Memory: 3584MB, Disk: 2 x 128GB SanDisk SD5SF212, Graphics: Intel 3rd Gen Core 1024MB

(1150MHz), Audio: Realtek ALC269VB, Network: Intel Centrino Advanced-N 6235

OS: Ubuntu 17.10, Kernel: 4.13.0-19-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Server: Wayland, OpenGL: 4.2 Mesa 17.2.2, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: This was running on battery power.

Linux 4.15

Linux 4.15 + PowerTop

Linux 4.15 + TLP

Processor: Intel Core i7-3517U @ 3.00GHz (2 Cores / 4 Threads), Motherboard: ASUS UX32VDA v1.0, Chipset: Intel 3rd Gen Core DRAM, Memory: 3584MB, Disk: 2 x 128GB SanDisk SD5SF212, Graphics: Intel Ivybridge Mobile 1536MB (1150MHz), Audio: Realtek ALC269VB, Network: Intel Centrino Advanced-N 6235

OS: Ubuntu 17.10, Kernel: 4.15.0-999-generic (x86_64) 20171210, Desktop: GNOME Shell 3.26.1, Display Server: Wayland, OpenGL: 4.2 Mesa 17.2.2, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

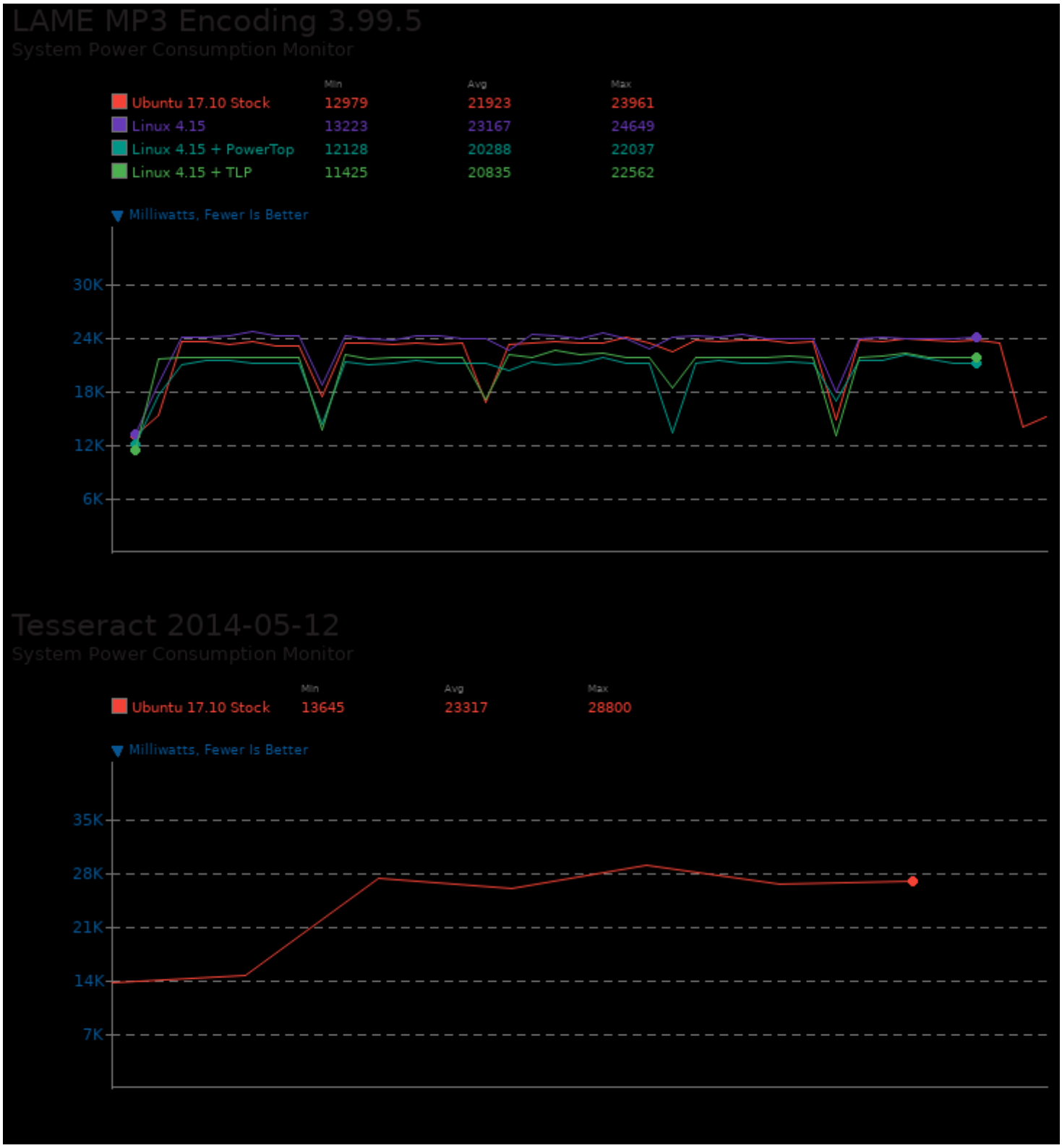
Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: This was running on battery power.

	Ubuntu 17.10 Stock	Linux 4.15	Linux 4.15 + PowerTop	Linux 4.15 + TLP
ET: Legacy - Renderer2 - 1920 x 1080 (FPS)	**45.10**	45.70	46.30	**46.97**
Normalized	96.02%	97.3%	98.57%	100%
Standard Deviation	3.5%	1.9%	1.3%	0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	**13.78**	13.79	13.82	**13.84**
Normalized	100%	99.93%	99.71%	99.57%
Standard Deviation	0.2%	0.6%	0.9%	0.9%
Timed Apache Compilation - Time To Compile (sec)	**67.03**	67.04	**67.27**	67.09
Normalized	100%	99.99%	99.64%	99.91%
Standard Deviation	0.2%	0.3%	0.5%	0.2%

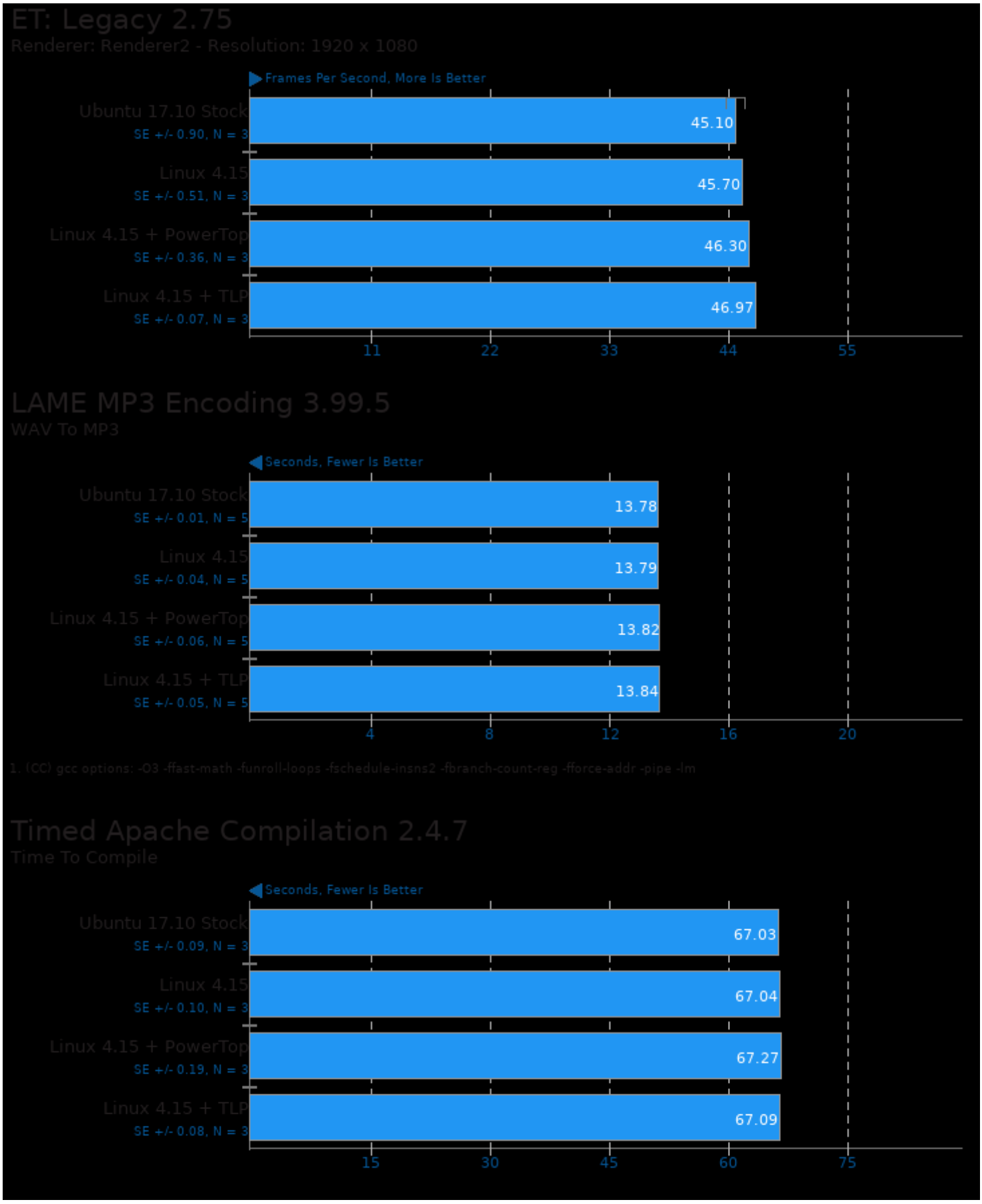
Load Power


ET: Legacy 2.75
System Power Consumption Monitor
Min
Avg
Max
Ubuntu 17.10 Stock 13460 32848 37451
Linux 4.15 14097 33687 38147
Linux 4.15 + PowerTop 11751 30544 35046
Linux 4.15 + TLP 12165 31942 36963
Milliwatts, Fewer Is Better
50K
40K
30K
20K
10K
Timed Apache Compilation 2.4.7
System Power Consumption Monitor
Min
Avg
Max
Ubuntu 17.10 Stock 13408 27773 32870
Linux 4.15 13712 28885 34040
Linux 4.15 + PowerTop 11255 25258 30621
Linux 4.15 + TLP 11440 26539 32412
Milliwatts, Fewer Is Better
40K
32K
24K
16K
8K

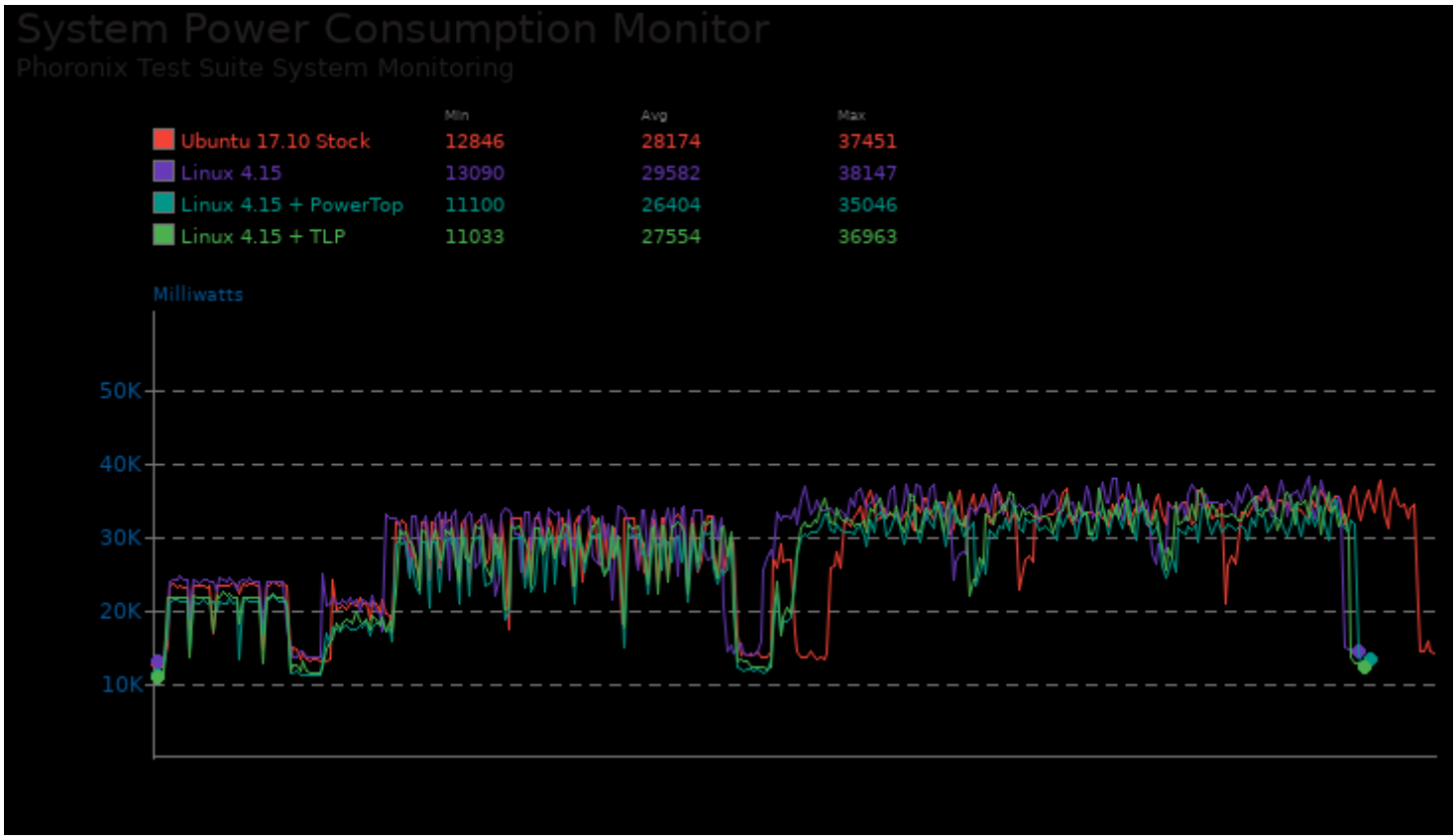
Load Power


LAME MP3 Encoding 3.99.5
System Power Consumption Monitor
Min
Avg
Max
Ubuntu 17.10 Stock 12979 21923 23961
Linux 4.15 13223 23167 24649
Linux 4.15 + PowerTop 12128 20288 22037
Linux 4.15 + TLP 11425 20835 22562
Milliwatts, Fewer Is Better
30K
24K
18K
12K
6K
Tesseract 2014-05-12
System Power Consumption Monitor
Min
Avg
Max
Ubuntu 17.10 Stock 13645 23317 28800
Milliwatts, Fewer Is Better
35K
28K
21K
14K
7K

Load Power

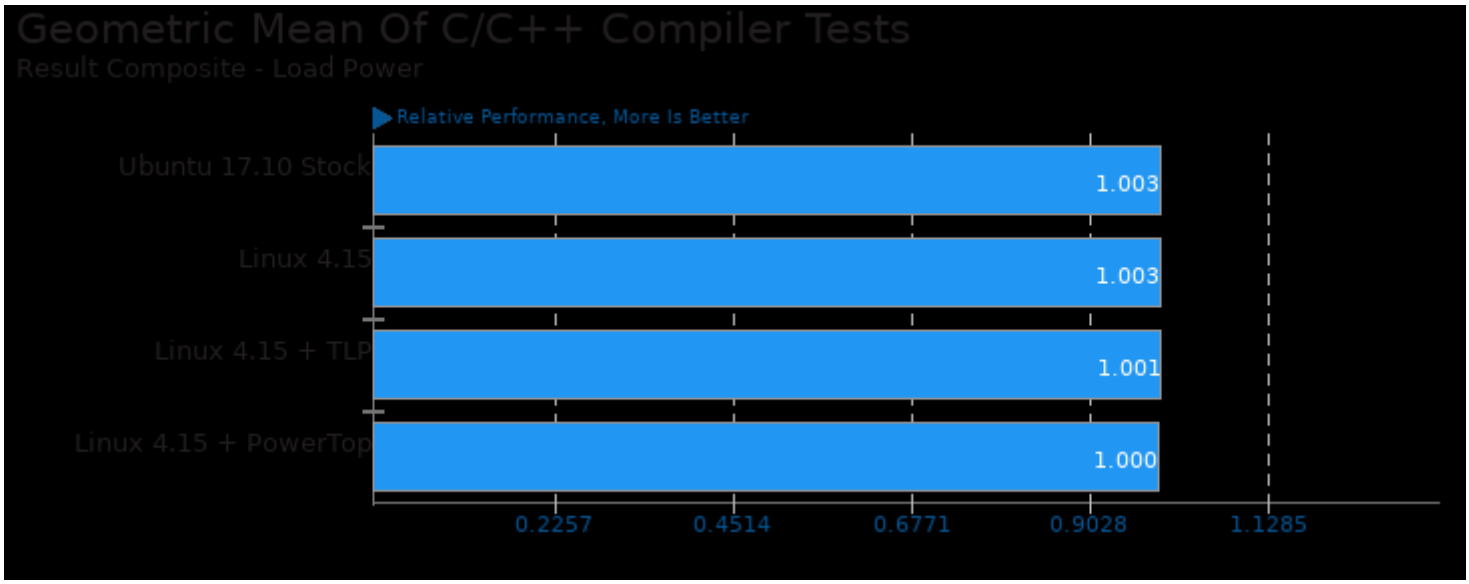

ET: Legacy 2.75
Renderer: Renderer2 - Resolution: 1920 x 1080
Frames Per Second, More Is Better
Ubuntu 17.10 Stock
SE +/- 0.90, N = 3
45.10
Linux 4.15
SE +/- 0.51, N = 3
45.70
Linux 4.15 + PowerTop
SE +/- 0.36, N = 3
46.30
Linux 4.15 + TLP
SE +/- 0.07, N = 3
46.97
11
22
33
44
55
LAME MP3 Encoding 3.99.5
WAV To MP3
Seconds, Fewer Is Better
Ubuntu 17.10 Stock
SE +/- 0.01, N = 5
13.78
Linux 4.15
SE +/- 0.04, N = 5
13.79
Linux 4.15 + PowerTop
SE +/- 0.06, N = 5
13.82
Linux 4.15 + TLP
SE +/- 0.05, N = 5
13.84
4
8
12
16
20
1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm
Timed Apache Compilation 2.4.7
Time To Compile
Seconds, Fewer Is Better
Ubuntu 17.10 Stock
SE +/- 0.09, N = 3
67.03
Linux 4.15
SE +/- 0.10, N = 3
67.04
Linux 4.15 + PowerTop
SE +/- 0.19, N = 3
67.27
Linux 4.15 + TLP
SE +/- 0.08, N = 3
67.09
15
30
45
60
75

Load Power

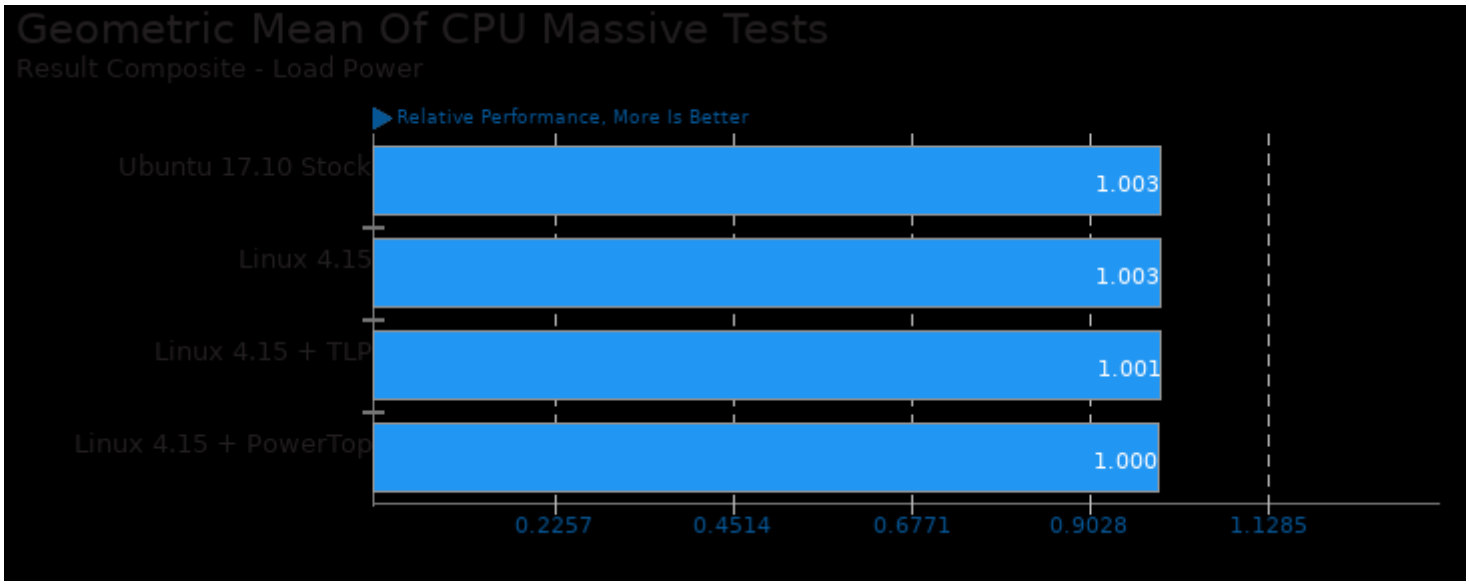

System Power Consumption Monitor
Phoronix Test Suite System Monitoring
Min
Avg
Max
Ubuntu 17.10 Stock 12846 28174 37451
Linux 4.15 13090 29582 38147
Linux 4.15 + PowerTop 11100 26404 35046
Linux 4.15 + TLP 11033 27554 36963
Milliwatts
50K
40K
30K
20K
10K

Load Power

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



Geometric mean based upon tests: pts/encode-mp3 and pts/build-apache



Geometric mean based upon tests: pts/build-apache and pts/encode-mp3

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:54.