



Mint 17.3 Testing

Intel Celeron N2840 testing with a Dell 0438P9 and Intel Device 0f31 on Solus 1.2 via the Phoronix Test Suite.

Automated Executive Summary

Solus 1.2 had the most wins, coming in first place for 88% of the tests.

Based on the geometric mean of all complete results, the fastest (Solus 1.2) was 1.555x the speed of the slowest (Ubuntu 16.04). Mint 17.3 Testing was 0.75x the speed of Solus 1.2 and Ubuntu 16.04 was 0.858x the speed of Mint 17.3 Testing.

The results with the greatest spread from best to worst included:

*System Libxml2 Parsing (Filesize: 700 KB) at 1.324x
System Libxml2 Parsing (Filesize: 500 KB) at 1.32x
System Libxml2 Parsing (Filesize: 600 KB) at 1.297x
System Libxml2 Parsing (Filesize: 750 KB) at 1.291x
System Libxml2 Parsing (Filesize: 800 KB) at 1.286x
System Libxml2 Parsing (Filesize: 900 KB) at 1.275x
System Libxml2 Parsing (Filesize: 950 KB) at 1.265x
System Libxml2 Parsing (Filesize: 1 MB) at 1.254x
System Libxml2 Parsing (Filesize: 850 KB) at 1.253x*

System Libxml2 Parsing (Filesize: 112 MB) at 1.205x.

Test Systems:

Mint 17.3 Testing

Processor: Intel Celeron N2840 @ 2.58GHz (2 Cores), Motherboard: Dell 0438P9, Chipset: Intel Atom Z36xxx/Z37xxx, Memory: 2048MB, Disk: 500GB TOSHIBA MQ01ABF0, Graphics: Intel Atom Z36xxx/Z37xxx & Display (791MHz), Audio: Intel Atom Z36xxx/Z37xxx, Network: Qualcomm Atheros QCA9565 / AR9565

OS: LinuxMint 17.3, Kernel: 3.19.0-32-generic (x86_64), Desktop: Cinnamon 2.8.8, Display Server: X Server 1.17.1, Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 10.5.9, Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate powersave

Ubuntu 16.04

Processor: Intel Celeron N2840 @ 2.58GHz (2 Cores), Motherboard: Dell 0438P9, Chipset: Intel Atom Z36xxx/Z37xxx, Memory: 2048MB, Disk: 500GB TOSHIBA MQ01ABF0, Graphics: Intel Atom Z36xxx/Z37xxx & Display (791MHz), Audio: Realtek ALC3234, Network: Qualcomm Atheros QCA9565 / AR9565

OS: Ubuntu 16.04, Kernel: 4.4.0-22-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: intel 2.99.917, Compiler: GCC 5.3.1 20160413, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate powersave

Solus 1.2

Processor: Intel Celeron N2840 @ 2.58GHz (2 Cores), Motherboard: Dell 0438P9, Chipset: Intel Device 0f00, Memory: 2048MB, Disk: 500GB TOSHIBA MQ01ABF0, Graphics: Intel Device 0f31 (791MHz), Audio: Realtek ALC3234, Network: Atheros Device 0036

OS: Solus 1.2, Kernel: 4.4.11 (x86_64), Display Driver: intel 2.99.917, OpenGL: 3.3 Mesa 11.2.2, Compiler: GCC 5.3.0 + Clang 3.8.0 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 1366x768

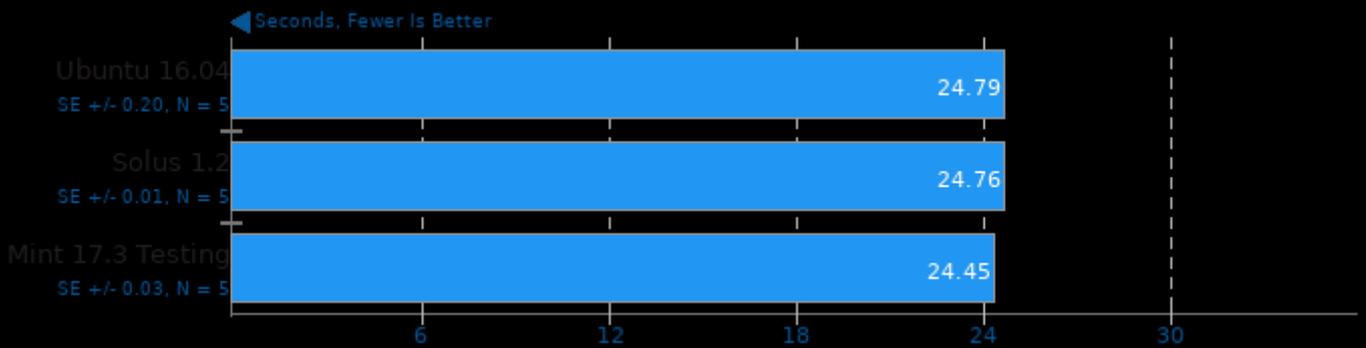
Compiler Notes: --build=x86_64-solus-linux --disable-gold --enable-__cxa_atexit --enable-clocale=gnu --enable-languages=c,c++,fortran --enable-ld=default --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --target=x86_64-solus-linux --with-arch_32=i686 --with-multilib-list=m32,m64
Processor Notes: Scaling Governor: intel_pstate powersave

	Mint 17.3 Testing	Ubuntu 16.04	Solus 1.2
FLAC Audio Encoding - WAV To FLAC (sec)	24.45	24.79	24.76
Normalized	100%	98.63%	98.75%
Standard Deviation	0.3%	1.8%	0.1%
System BZIP2 Decompression - P.T.S.v.4.0 (sec)	28.54	28.19	28.89
Normalized	98.77%	100%	97.58%
Standard Deviation	0.3%	0.2%	2.7%
System XZ Decompression - P.T.S.v.4.0 (sec)	8.16	8.10	7.32
Normalized	89.71%	90.37%	100%
Standard Deviation	2.4%	0.1%	0.7%
OpenSSL - R.4.b.P (Signs/sec)	55.10		
Standard Deviation	0.2%		
System JPEG Library Decode - Float (ms)	9.32	15.50	5.02
Normalized	53.86%	32.39%	100%
Standard Deviation	65.6%	14.4%	110.1%
System JPEG Library Decode - Integer (ms)	7.97	14.75	3.72
Normalized	46.68%	25.22%	100%
Standard Deviation	1.5%	15.4%	10.2%
System JPEG Library Decode - Fast Integer (ms)	7.93	14.80	3.72
Normalized	46.91%	25.14%	100%
Standard Deviation	1.1%	17.8%	9.1%
System Libxml2 Parsing - 1 MB (ms)	2127	2002	1696
Normalized	79.74%	84.72%	100%
Standard Deviation	0.6%		0.2%
System Libxml2 Parsing - 2 MB (ms)	6073	6085	5072
Normalized	83.52%	83.35%	100%
Standard Deviation	0.3%	0.1%	0.3%
System Libxml2 Parsing - 3 MB (ms)	9009	9096	7552
Normalized	83.83%	83.03%	100%
Standard Deviation	0.2%	0.1%	0.1%
System Libxml2 Parsing - 112 MB (ms)	272961	281175	233349
Normalized	85.49%	82.99%	100%
Standard Deviation	0.1%	0.1%	0.1%
System Libxml2 Parsing - 400 KB (ms)	1355		
Standard Deviation	0.4%		
System Libxml2 Parsing - 500 KB (ms)	1634		1238
Normalized	75.76%		100%
Standard Deviation	0%		0.1%
System Libxml2 Parsing - 600 KB (ms)	1913		1475
Normalized	77.1%		100%
Standard Deviation	0.3%		0%
System Libxml2 Parsing - 650 KB (ms)	1414		
Standard Deviation	0.2%		
System Libxml2 Parsing - 700 KB (ms)	1475		1114
Normalized	75.53%		100%
Standard Deviation	0.3%		
System Libxml2 Parsing - 750 KB (ms)	1604		1242
Normalized	77.43%		100%
Standard Deviation	0.5%		
System Libxml2 Parsing - 800 KB (ms)	1693		1316
Normalized	77.73%		100%
Standard Deviation	0.2%		

System Libxml2 Parsing - 850 KB (ms)	2592	2483	2068
Normalized	79.78%	83.29%	100%
Standard Deviation	0.2%	0.1%	0.1%
System Libxml2 Parsing - 900 KB (ms)	1931		1514
Normalized	78.4%		100%
Standard Deviation	0.7%		0.5%
System Libxml2 Parsing - 950 KB (ms)	1989		1572
Normalized	79.03%		100%
Standard Deviation	0.3%		0.1%

FLAC Audio Encoding 1.3.1

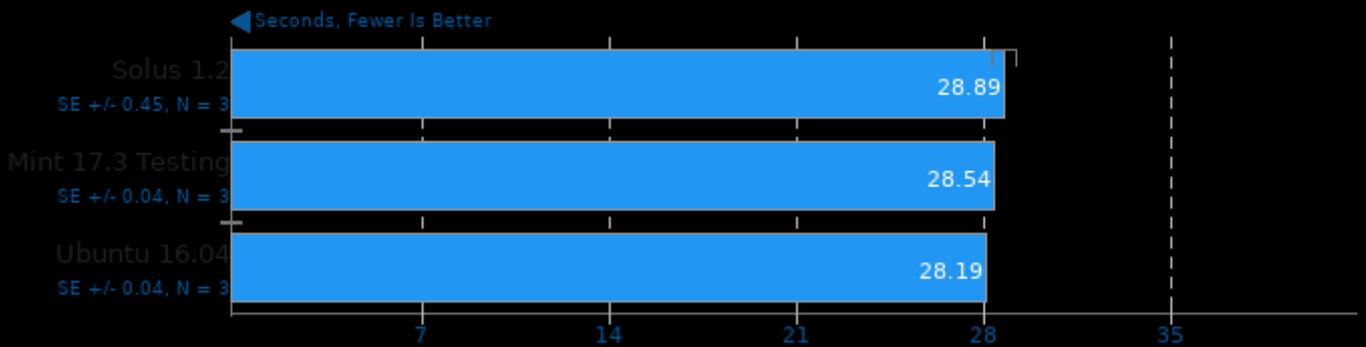
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -lm

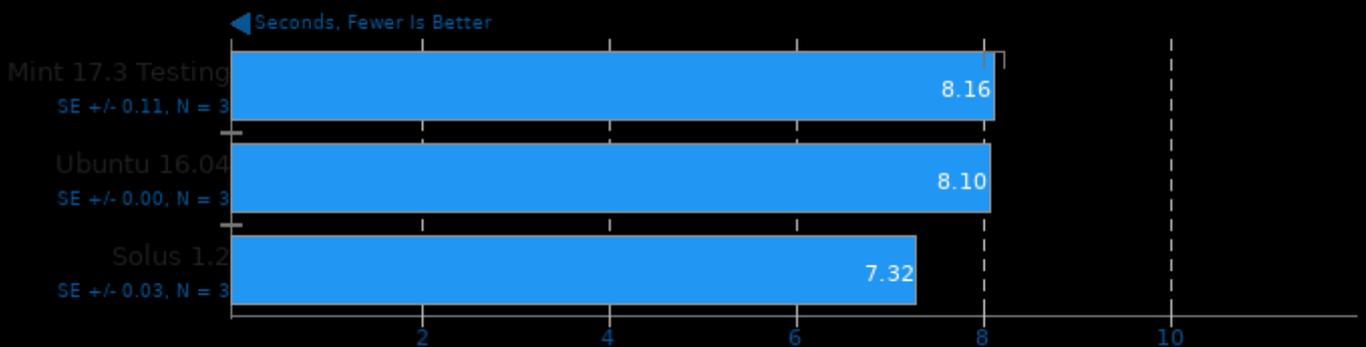
System BZIP2 Decompression

Phoronix Test Suite v6.4.0



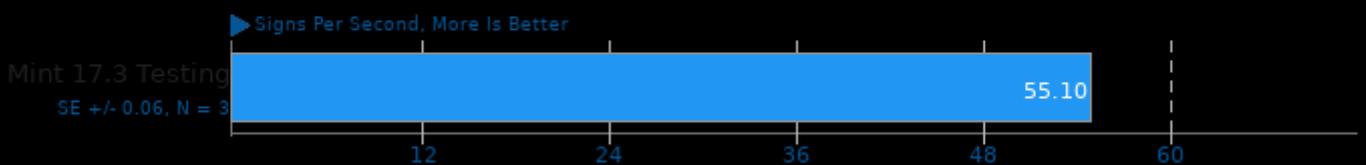
System XZ Decompression

Phoronix Test Suite v6.4.0



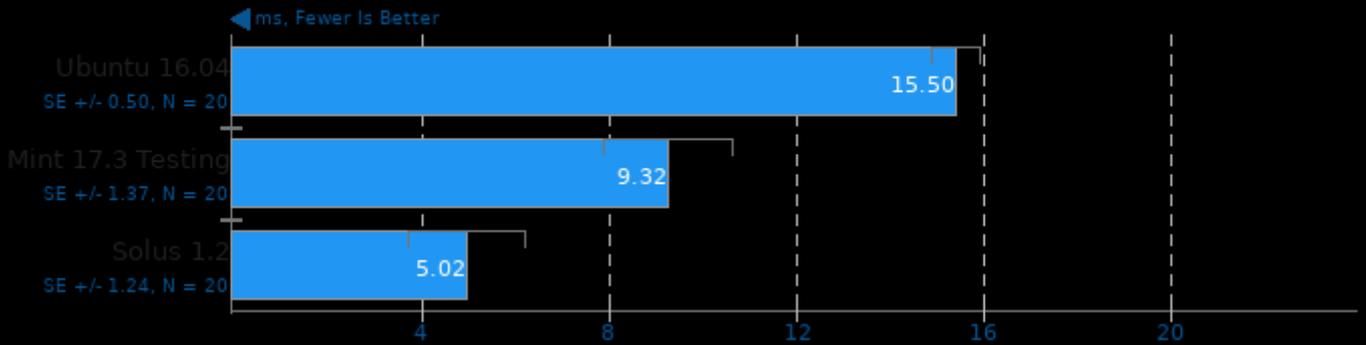
OpenSSL 1.0.1f

RSA 4096-bit Performance



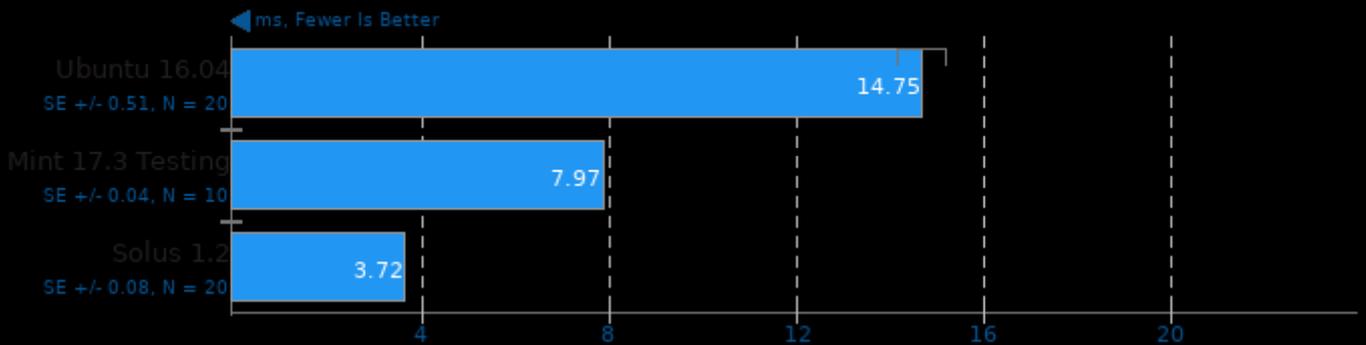
System JPEG Library Decode

DCT method: Float



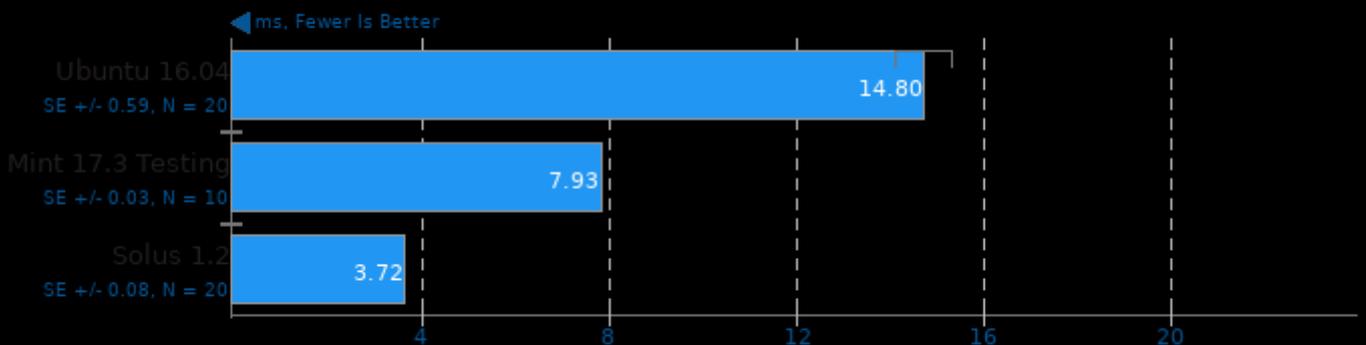
System JPEG Library Decode

DCT method: Integer



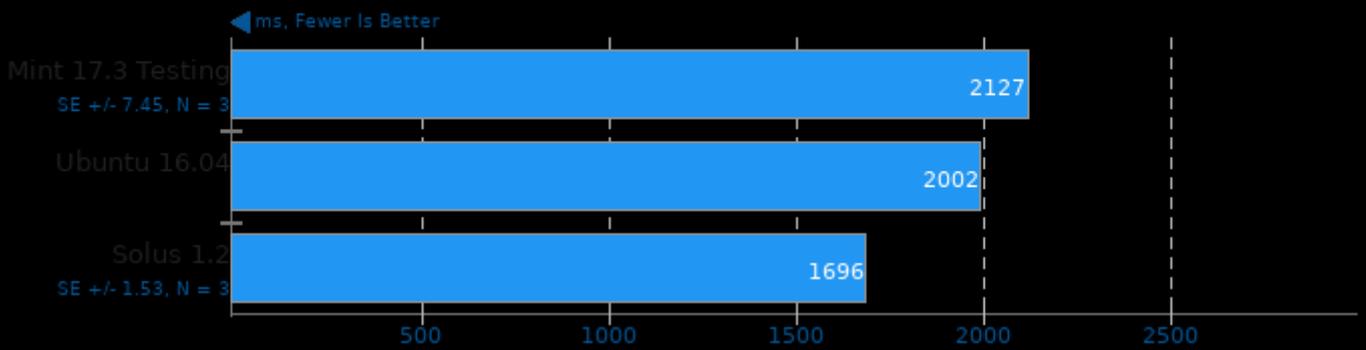
System JPEG Library Decode

DCT method: Fast Integer



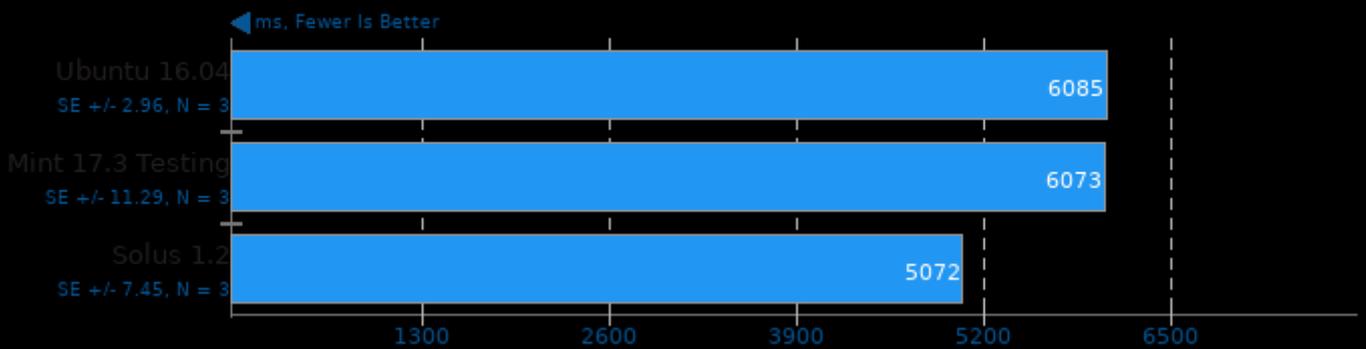
System Libxml2 Parsing

Filesize: 1 MB



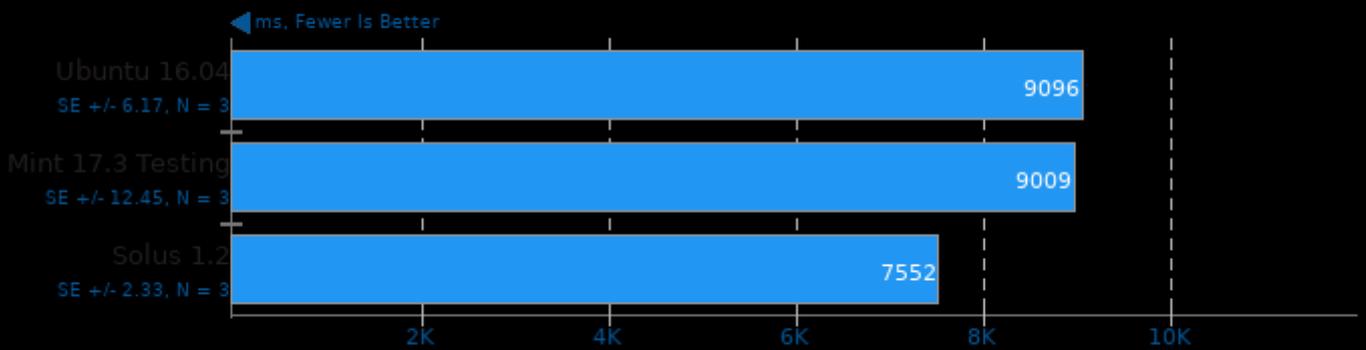
System Libxml2 Parsing

Filesize: 2 MB



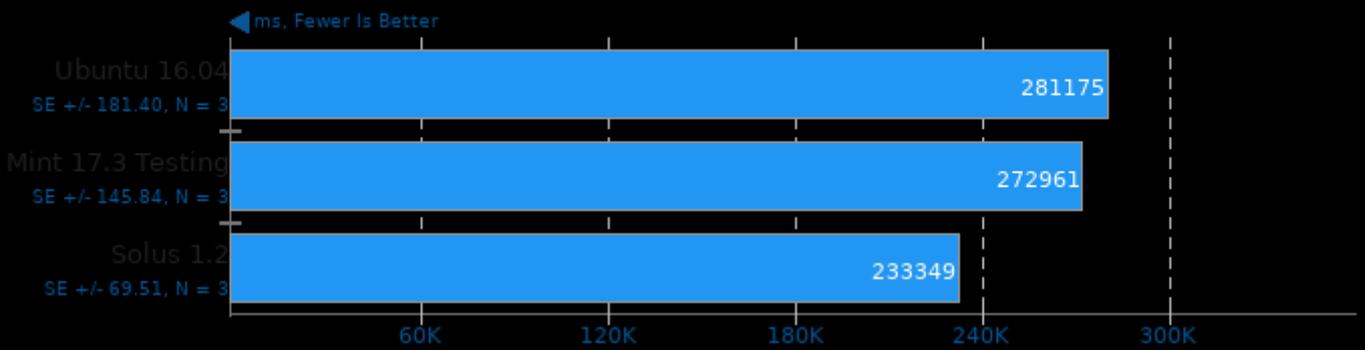
System Libxml2 Parsing

Filesize: 3 MB



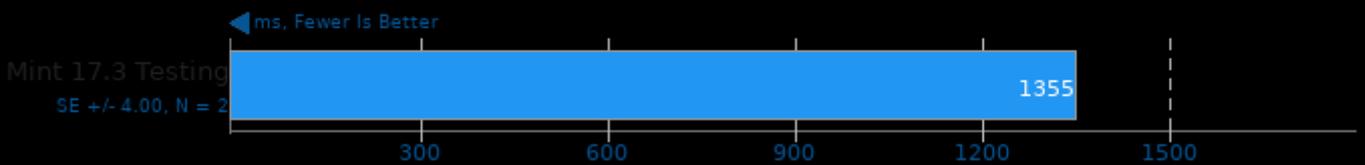
System Libxml2 Parsing

Filesize: 112 MB



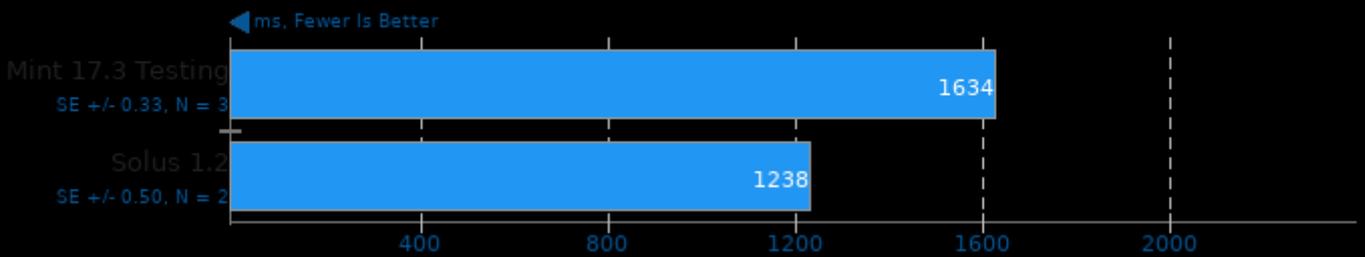
System Libxml2 Parsing

Filesize: 400 KB



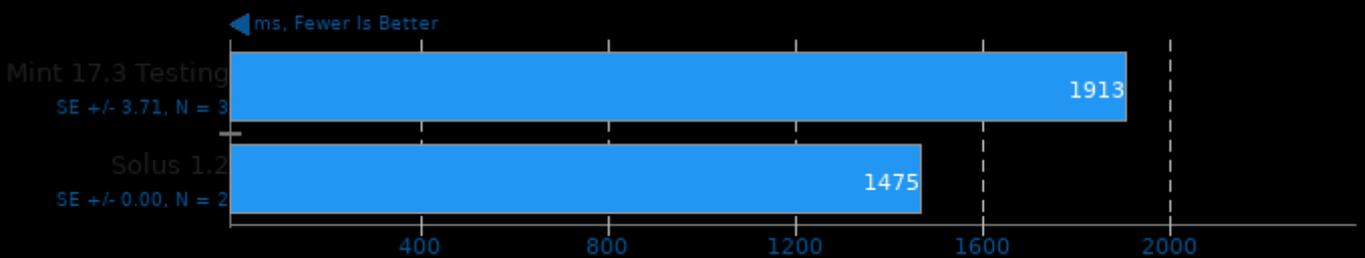
System Libxml2 Parsing

Filesize: 500 KB



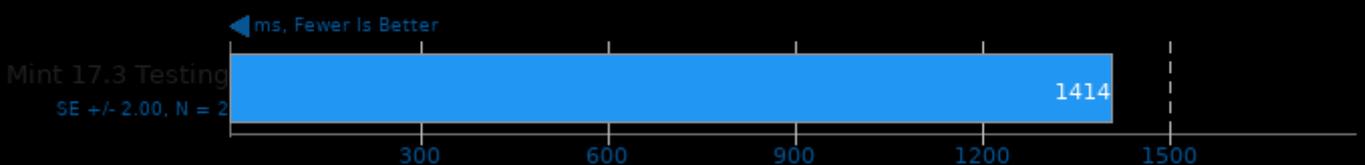
System Libxml2 Parsing

Filesize: 600 KB



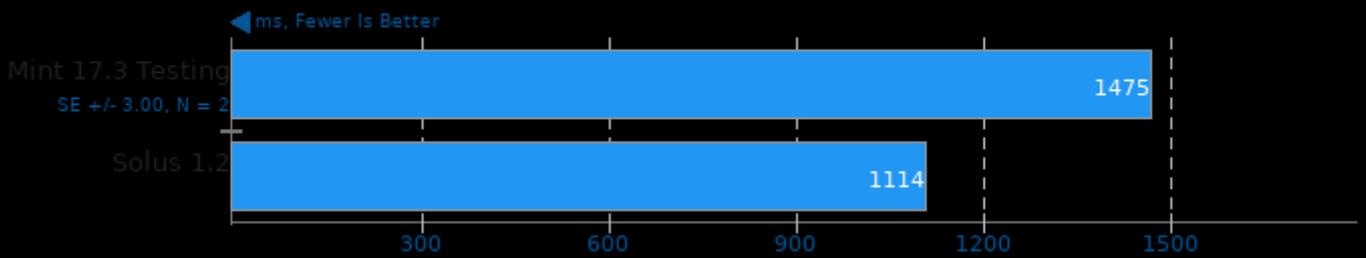
System Libxml2 Parsing

Filesize: 650 KB



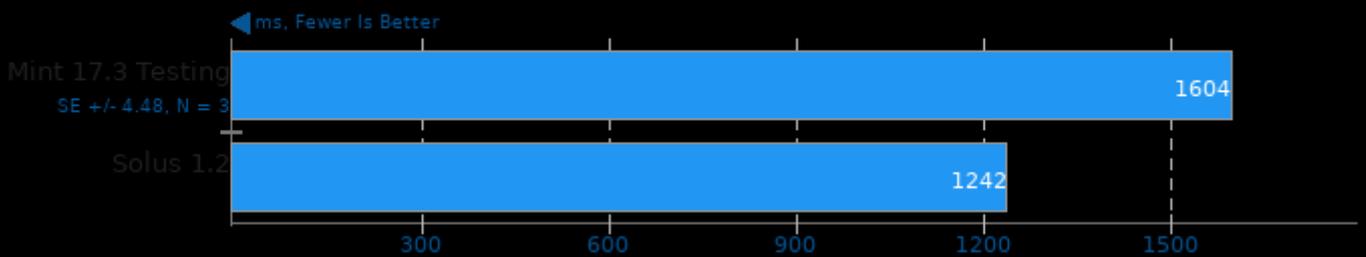
System Libxml2 Parsing

Filesize: 700 KB



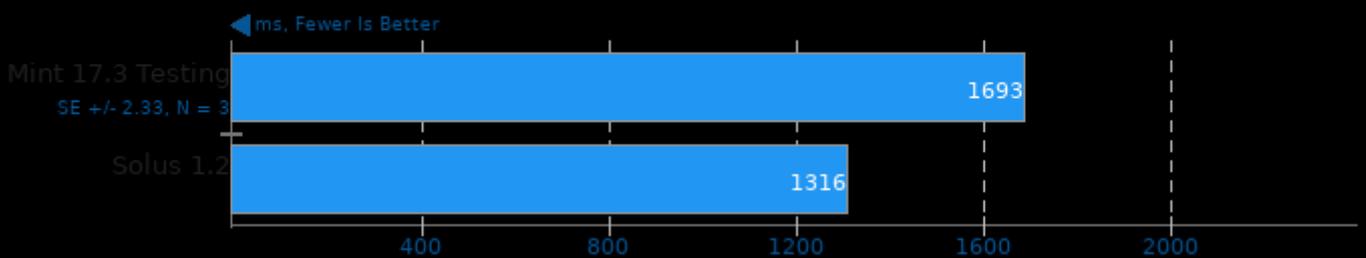
System Libxml2 Parsing

Filesize: 750 KB



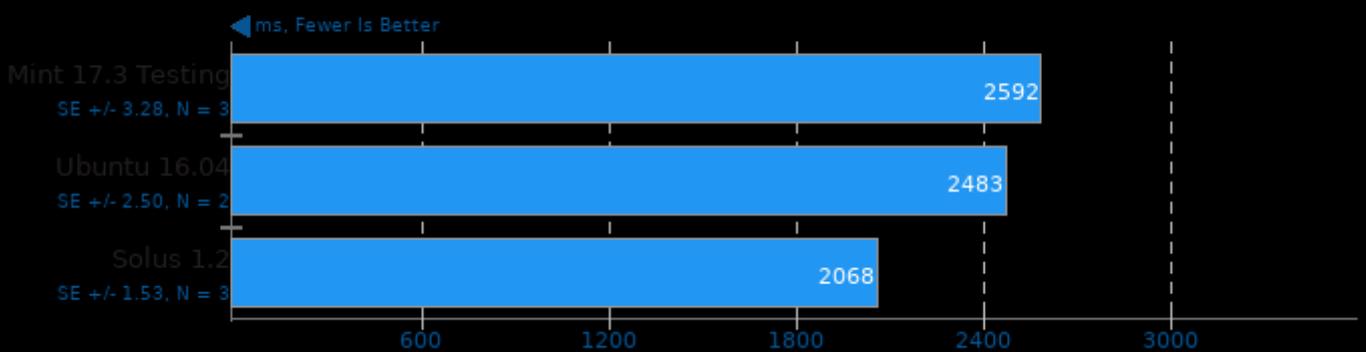
System Libxml2 Parsing

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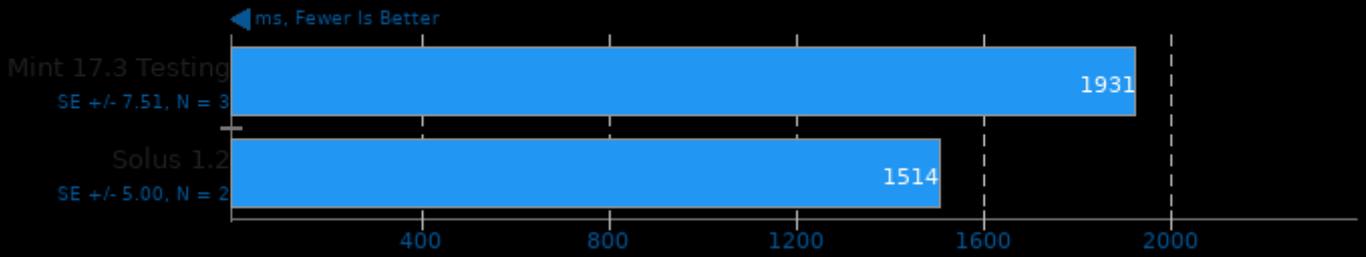
System Libxml2 Parsing

Filesize: 850 KB



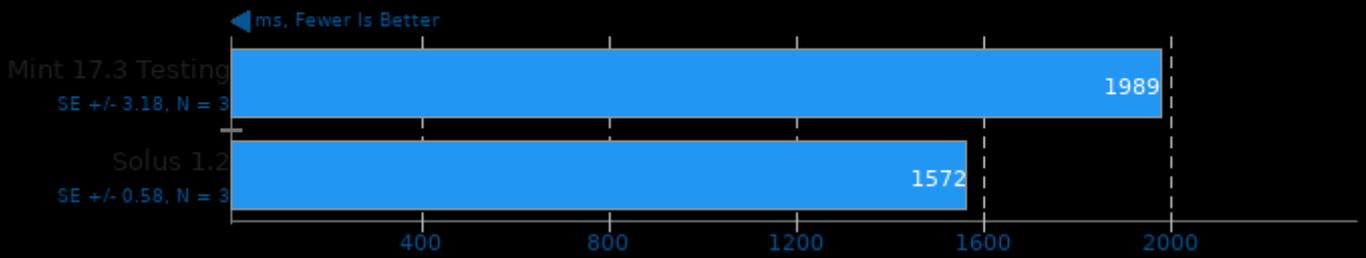
System Libxml2 Parsing

Filesize: 900 KB

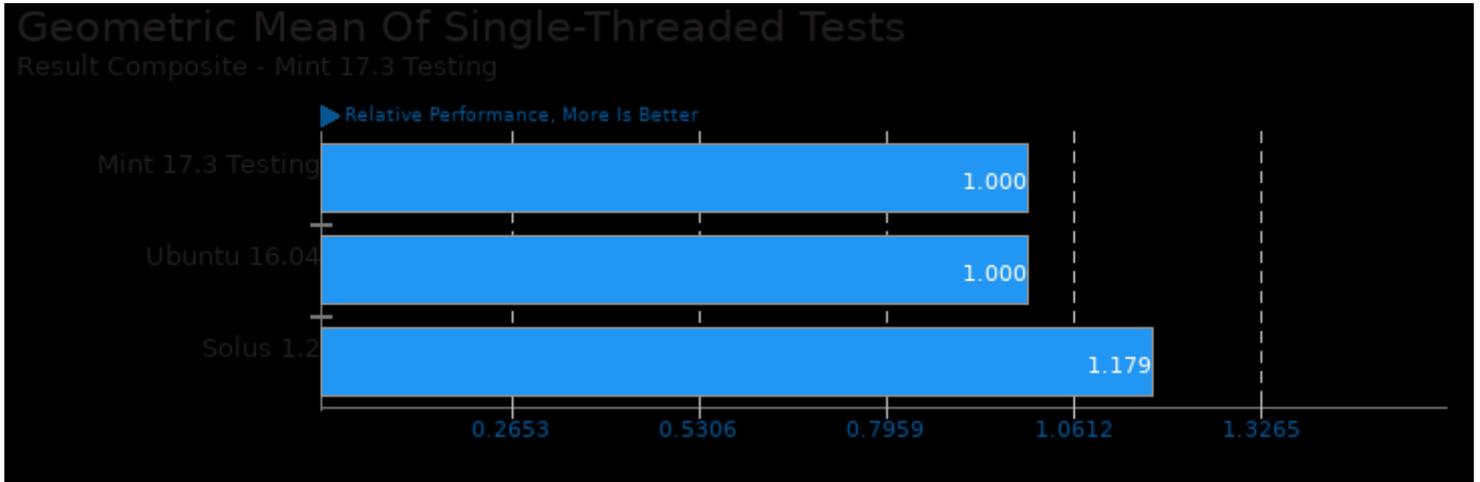


System Libxml2 Parsing

Filesize: 950 KB



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



Geometric mean based upon tests: pts/encode-flac and pts/system-libxml2

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:04.