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zone-104

Running pts/iozone-1.8.0, pts/metro2033-redux-1.1.0, pts/openarena-1.5.2, pts/gputest-1.3.1, pts/ramspeed-1.4.0, pts/compress-gzip-1.1.0 via the Phoronix Test Suite.

Automated Executive Summary

arch-kernel4.1 had the most wins, coming in first place for 28% of the tests.

Based on the geometric mean of all complete results, the fastest (opensuse-tumbleweed-25jun15) was 1.03x the speed of the slowest (kubuntu-15.04). kubuntu-15.04-XMP-96dpi was 1x the speed of opensuse-tumbleweed-25jun15, kubuntu-15.04-XMP_enabled was 0.998x the speed of kubuntu-15.04-XMP-96dpi, arch-kernel4.1 was 0.996x the speed of kubuntu-15.04-XMP_enabled, arch-25jun15 was 1x the speed of arch-kernel4.1, opensuse-tumbleweed-25jun15_2 was 0.995x the speed of arch-25jun15, kubuntu-15.10-alpha1 was 0.989x the speed of opensuse-tumbleweed-25jun15_2, kubuntu-15.04 was 0.993x the speed of kubuntu-15.10-alpha1.

Test Systems:

kubuntu-15.04

kubuntu-15.04-XMP_enabled

kubuntu-15.04-XMP-96dpi

Processor: Intel Core i5-3450 @ 3.50GHz (4 Cores), Motherboard: MSI Z77A-G43 (MS-7758) v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 2000GB Seagate ST2000DM001-9YN1 + 2000GB D3 Station, Graphics: MSI NVIDIA GeForce GTS 450 1024MB (783/1804MHz), Audio: Intel 7 /C210, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-21-generic (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.17.1, Display Driver: NVIDIA 352.21, OpenGL: 4.4.0, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1920x1080

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,c++,java,go,d,fortran,objc,obj-c++ --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-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: CFQ.

opensuse-tumbleweed-25jun15

opensuse-tumbleweed-25jun15_2

Processor: Intel Core i5-3450 @ 3.50GHz (4 Cores), Motherboard: MSI Z77A-G43 (MS-7758) v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 2000GB Seagate ST2000DM001-9YN1 + 2000GB D3 Station, Graphics: NVIDIA GeForce GTS 450 1024MB (783/1804MHz), Audio: Intel 7 /C210, Network: Realtek RTL8111/8168/8411

OS: openSUSE 20150612, Kernel: 4.0.5-1-desktop (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.17.1, Display Driver: NVIDIA 352.21, OpenGL: 4.4.0, Compiler: GCC 4.8.3, File-System: xfs, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-suse-linux --disable-libgcj --disable-libmudflap --disable-libssp --disable-libstdcxx-pch --disable-plugin --enable-__cxa_atexit --enable-checking=release --enable-languages=c,c++,objc,fortran,obj-c++,java,ada --enable-libstdcxx-allocator=new --enable-linux-futex --enable-ssp --enable-version-specific-runtime-libs --host=x86_64-suse-linux --mandir=/usr/share/man --with-arch-32=i586 --with-slibdir=/lib64 --with-tune=generic --without-system-libunwind
Disk Notes: CFQ / attr2,inode64,noquota,relatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: CFQ.

arch-25jun15

Processor: Intel Core i5-3450 @ 3.50GHz (4 Cores), Motherboard: MSI Z77A-G43 (MS-7758) v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 2000GB Seagate ST2000DM001-9YN1 + 2000GB D3 Station, Graphics: MSI NVIDIA GeForce GTS 450 1024MB (783/1804MHz), Audio: Intel 7 /C210, Network: Realtek RTL8111/8168/8411

OS: Arch Linux, Kernel: 4.0.6-1-ARCH (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 352.21, Compiler: GCC 5.1.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-multilib --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-libmpx --enable-lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-default-libstdcxx-abi=c++98 --with-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: CFQ.

arch-kernel4.1

Processor: Intel Core i5-3450 @ 3.50GHz (4 Cores), Motherboard: MSI Z77A-G43 (MS-7758) v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 2000GB Seagate ST2000DM001-9YN1 + 2000GB D3 Station, Graphics: MSI NVIDIA GeForce GTS 450 1024MB (783/1804MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Arch Linux, Kernel: 4.1.2-2-ARCH (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 352.21, Compiler: GCC 5.1.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-multilib --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-libmpx --enable-lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-default-libstdcxx-abi=c++98 --with-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: CFQ.

kubuntu-15.10-alpha1

Processor: Intel Core i5-3450 @ 3.50GHz (4 Cores), Motherboard: MSI Z77A-G43 (MS-7758) v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 2000GB Seagate ST2000DM001-9YN1 + 2000GB D3 Station, Graphics: MSI NVIDIA GeForce GTS 450 1024MB (783/1804MHz), Audio: Intel 7 /C210, Network: Realtek RTL8111/8168/8411

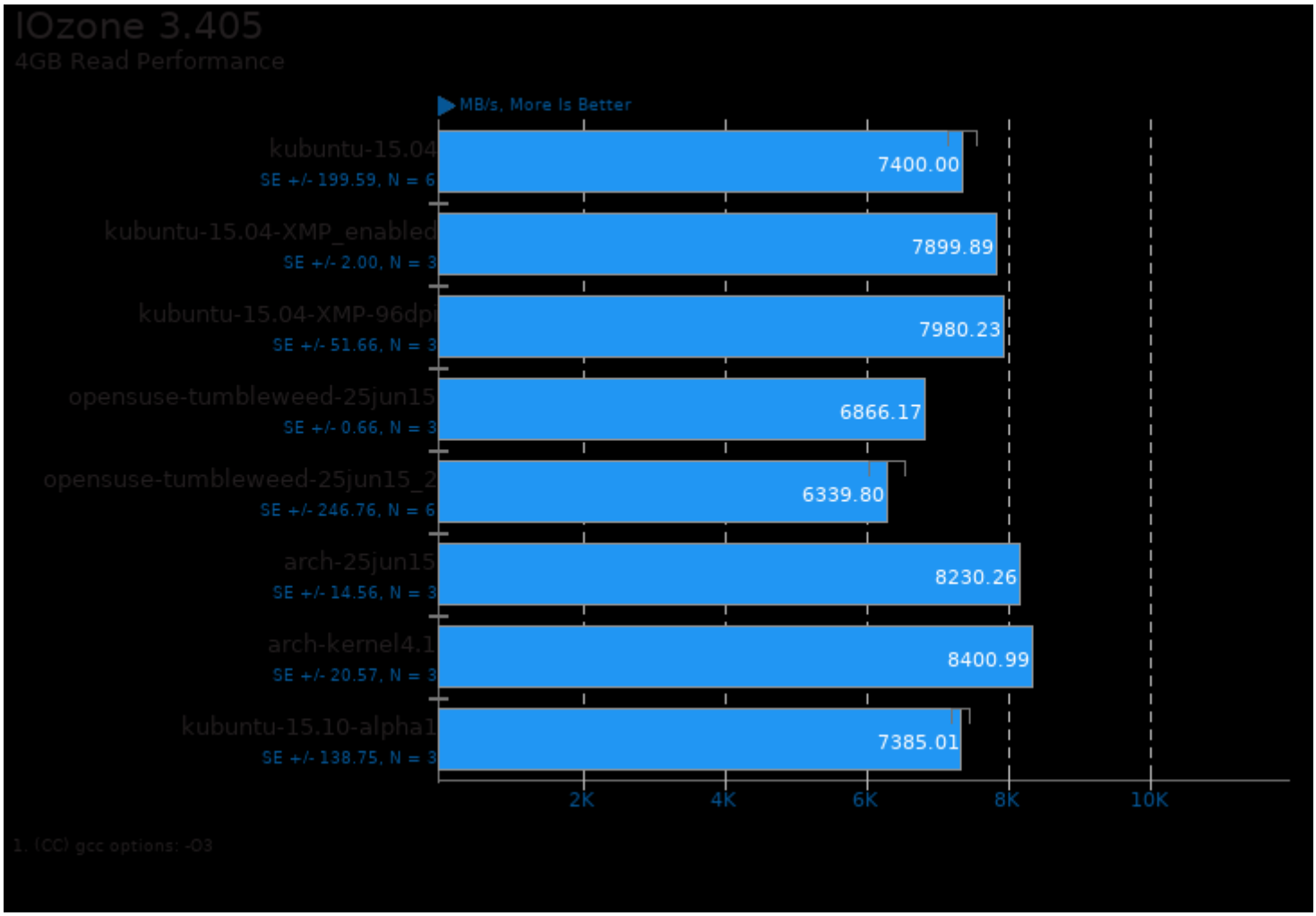
OS: Ubuntu 15.10, Kernel: 4.0.0-4-generic (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.17.1, Display Driver: NVIDIA 352.21, OpenGL: 4.4.0, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 1920x1080

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,c++,java,go,d,fortran,objc,obj-c++ --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-multilib-list=m32,m64,mx32 --with-tune=generic -v
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: Disk Scheduler: CFQ.

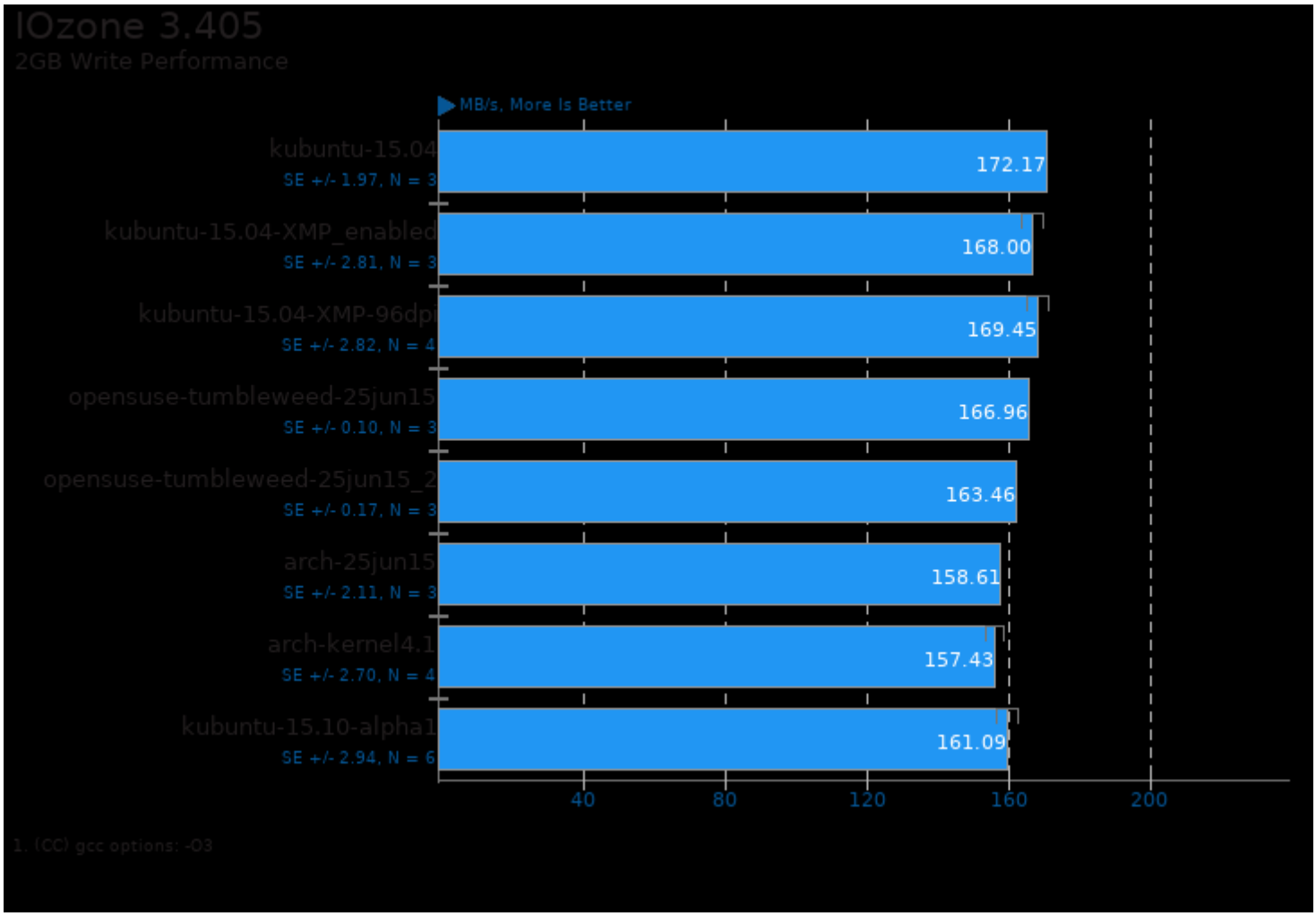
	kubuntu-15.04	kubuntu-15.04-XMP_enabled	kubuntu-15.04-XMP-96dpi	opensuse-tumbleweed-25jun15	opensuse-tumbleweed-25jun15_	arch-25jun15	arch-kernel4.1	kubuntu-15.10-alpha1
IOzone - 4.R.P (MB/s)	7400	7900	7980	6866	6340	8230	8401	7385
Normalized	88.08%	94.04%	94.99%	81.73%	75.46%	97.97%	100%	87.91%
Standard Deviation	6.6%	0%	1.1%	0%	9.5%	0.3%	0.4%	3.3%
IOzone - 2.W.P (MB/s)	172.17	168.00	169.45	166.96	163.46	158.61	157.43	161.09
Normalized	100%	97.58%	98.42%	96.97%	94.94%	92.12%	91.44%	93.56%
Standard Deviation	2%	2.9%	3.3%	0.1%	0.2%	2.3%	3.4%	4.5%
Metro 2033 Redux - 1920 x 1080 (FPS)	48.20	48.56	48.30	48.34	48.41	48.51	48.53	48.42
Normalized	99.26%	100%	99.46%	99.55%	99.69%	99.9%	99.94%	99.71%
Standard Deviation	1.6%	0.2%	1.1%	0.1%	0.2%	0.1%	0.1%	0.1%
OpenArena - 1920 x 1080 (FPS)	106.40	106.43	106.47	97.67	97.67	106.50	106.50	106.43
Normalized	99.91%	99.93%	99.97%	91.71%	91.71%	100%	100%	99.93%
Standard Deviation	0.1%	0.1%	0.1%	0.1%	0.1%	0%	0%	0.1%

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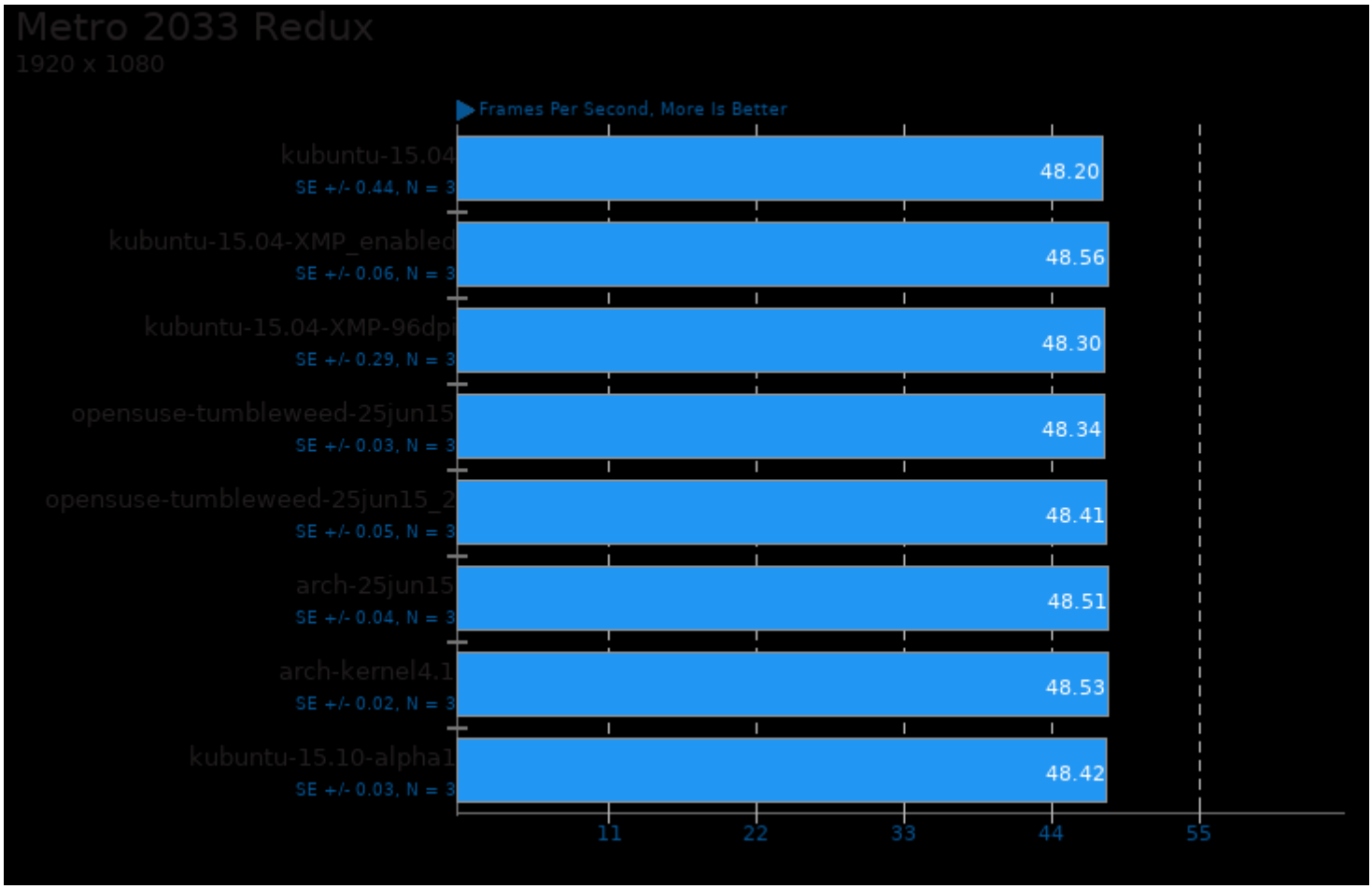
GpuTest - Gpu test - F.1.x.1 (Points)	1102	1101	**1103**	1101	1101	1102	**1103**	**1100**
Normalized	99.91%	99.82%	100%	99.82%	99.82%	99.91%	100%	99.73%
Standard Deviation	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
RAMspeed SMP - Floating-Point Add (MB/s)	**13964**	16317	16278	16210	16194	16422	**16426**	16153
Normalized	85.01%	99.33%	99.1%	98.68%	98.59%	99.97%	100%	98.34%
Gzip Compression - 2.F.C (sec)	12.69	12.93	12.88	9.94	**9.74**	13.17	**13.36**	13.12
Normalized	76.75%	75.33%	75.62%	97.99%	100%	73.96%	72.9%	74.24%
Standard Deviation	0.1%	4.7%	3.3%	5.7%	0.3%	0.1%	2.4%	2.2%


IOzone 3.405
4GB Read Performance
MB/s, More Is Better
kubuntu-15.04
SE +/- 199.59, N = 6
7400.00
kubuntu-15.04-XMP_enabled
SE +/- 2.00, N = 3
7899.89
kubuntu-15.04-XMP-96dpi
SE +/- 51.66, N = 3
7980.23
opensuse-tumbleweed-25jun15
SE +/- 0.66, N = 3
6866.17
opensuse-tumbleweed-25jun15_2
SE +/- 246.76, N = 6
6339.80
arch-25jun15
SE +/- 14.56, N = 3
8230.26
arch-kernel4.1
SE +/- 20.57, N = 3
8400.99
kubuntu-15.10-alpha1
SE +/- 138.75, N = 3
7385.01
2K
4K
6K
8K
10K
1. (CC) gcc options: -O3

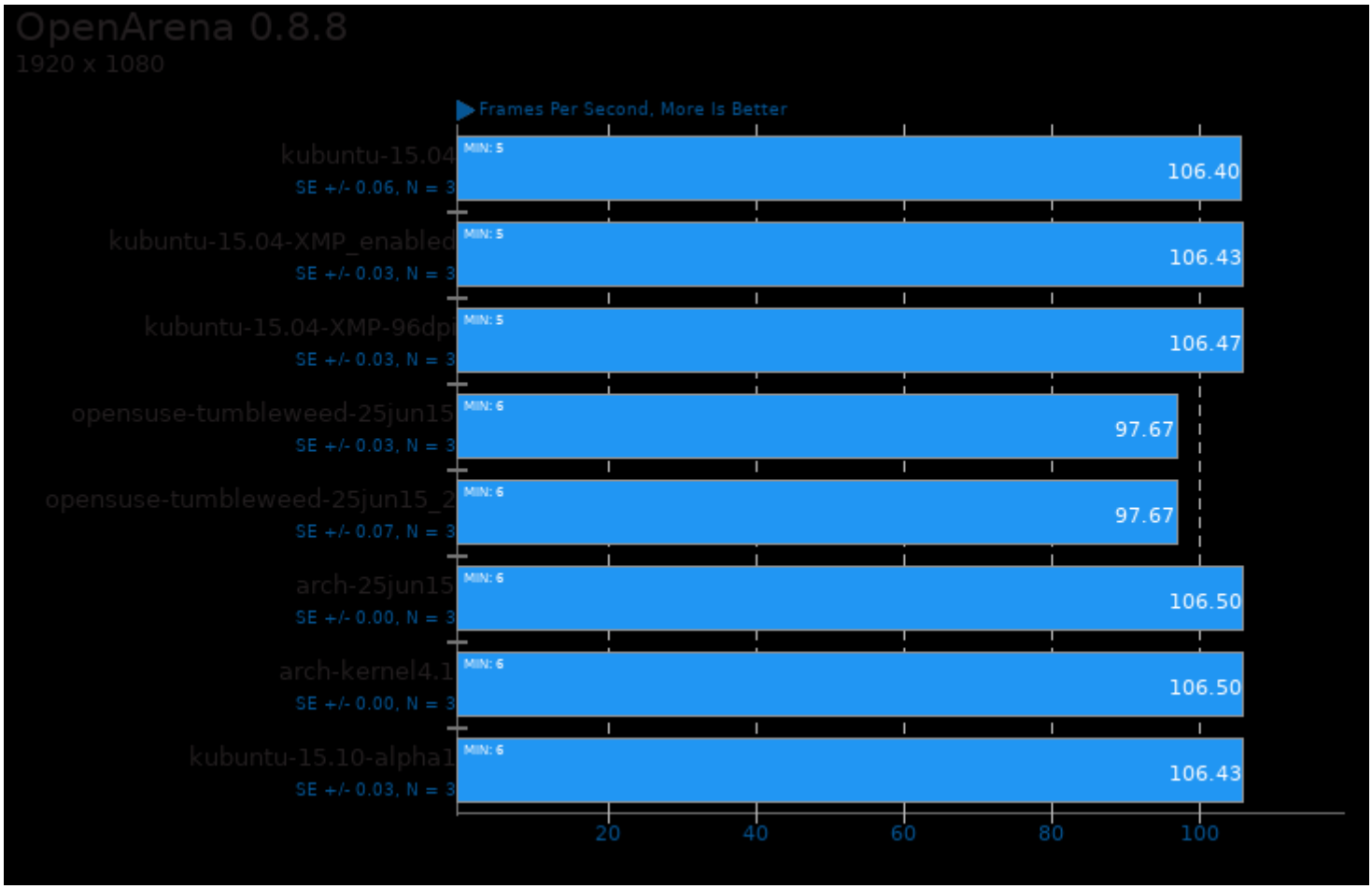
zone-104

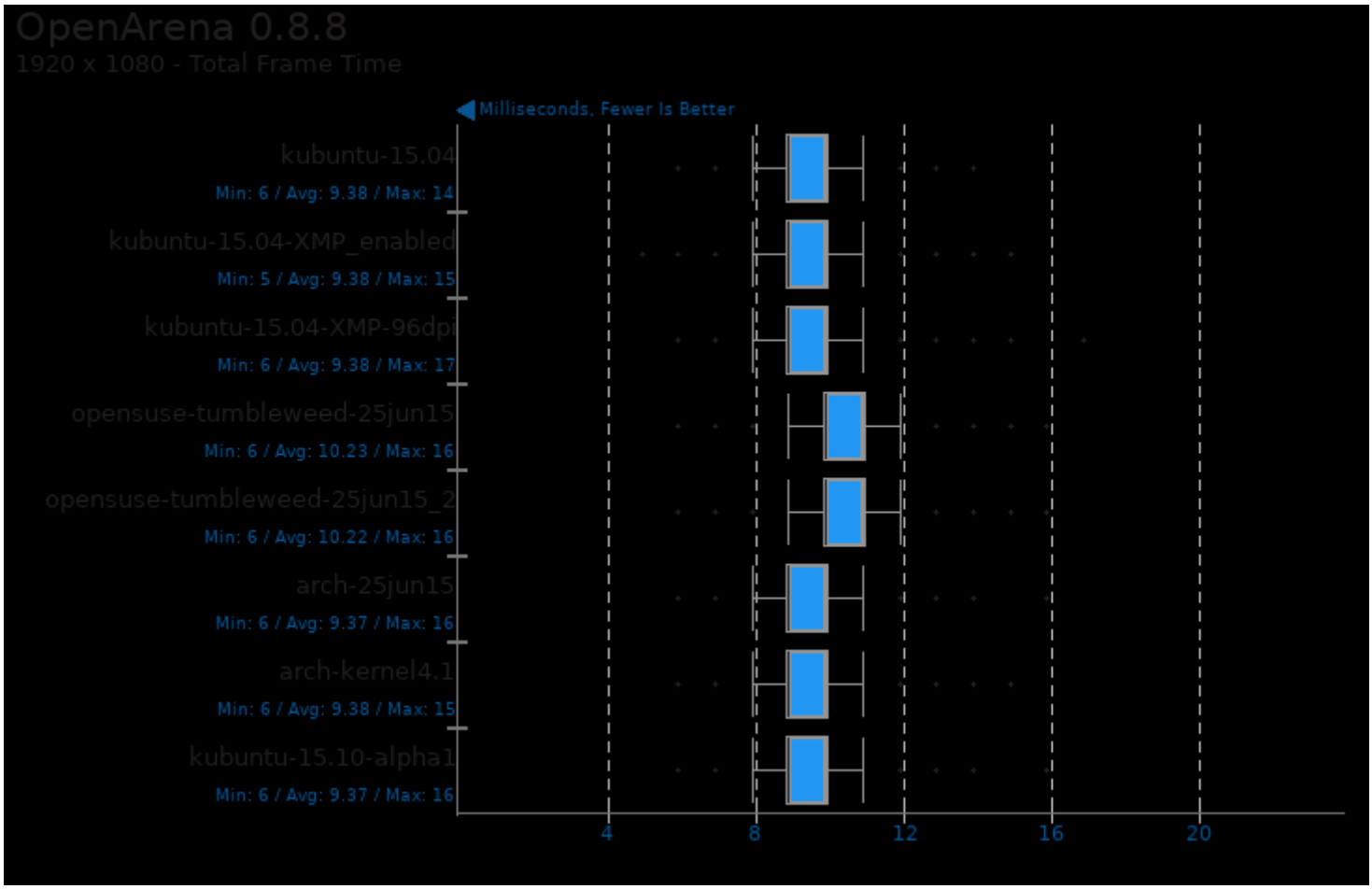

IOzone 3.405
2GB Write Performance
MB/s, More Is Better
kubuntu-15.04
SE +/- 1.97, N = 3
172.17
kubuntu-15.04-XMP_enabled
SE +/- 2.81, N = 3
168.00
kubuntu-15.04-XMP-96dpi
SE +/- 2.82, N = 4
169.45
opensuse-tumbleweed-25jun15
SE +/- 0.10, N = 3
166.96
opensuse-tumbleweed-25jun15_2
SE +/- 0.17, N = 3
163.46
arch-25jun15
SE +/- 2.11, N = 3
158.61
arch-kernel4.1
SE +/- 2.70, N = 4
157.43
kubuntu-15.10-alpha1
SE +/- 2.94, N = 6
161.09
40
80
120
160
200
1. (CC) gcc options: -O3

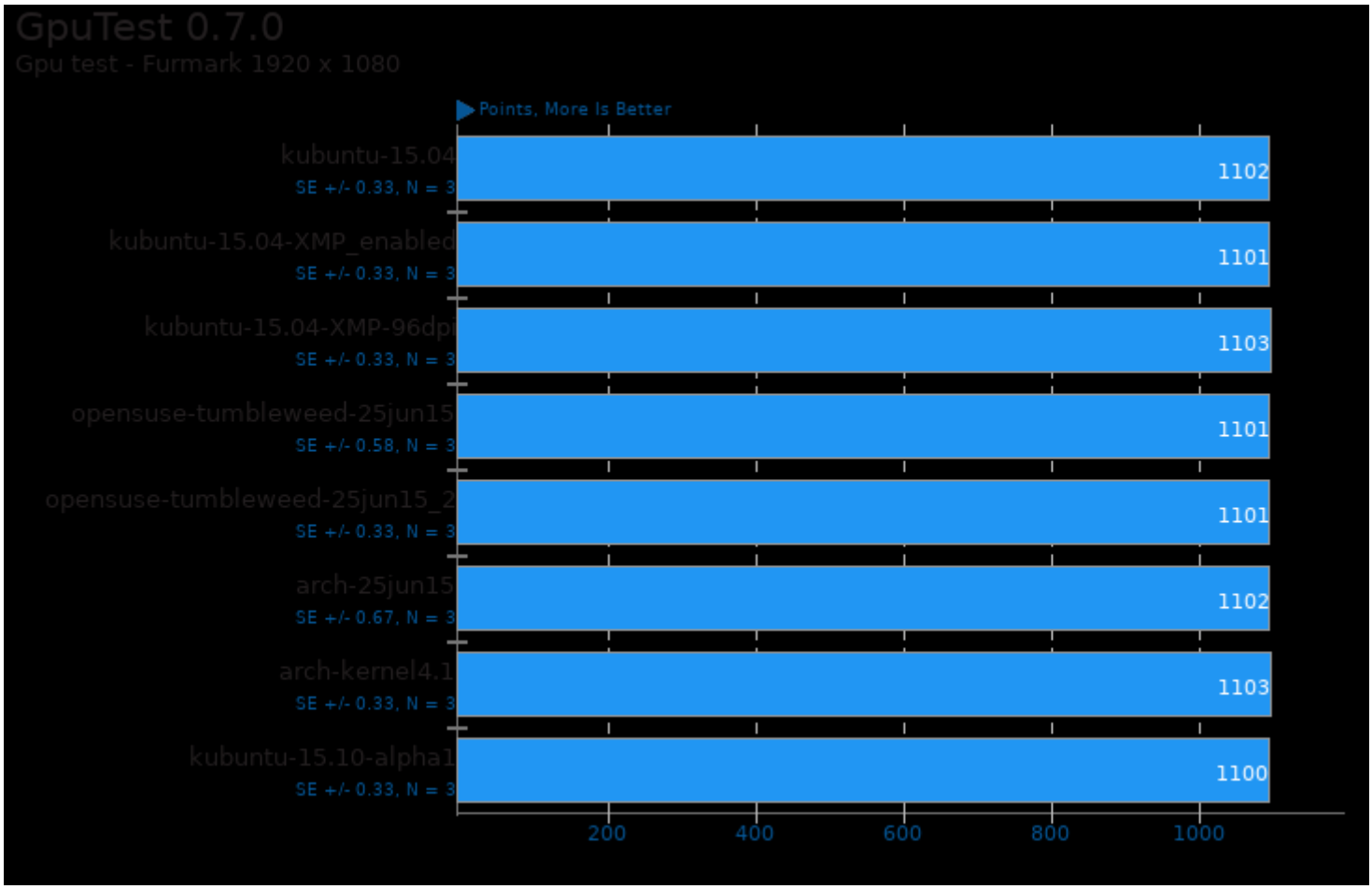
zone-104

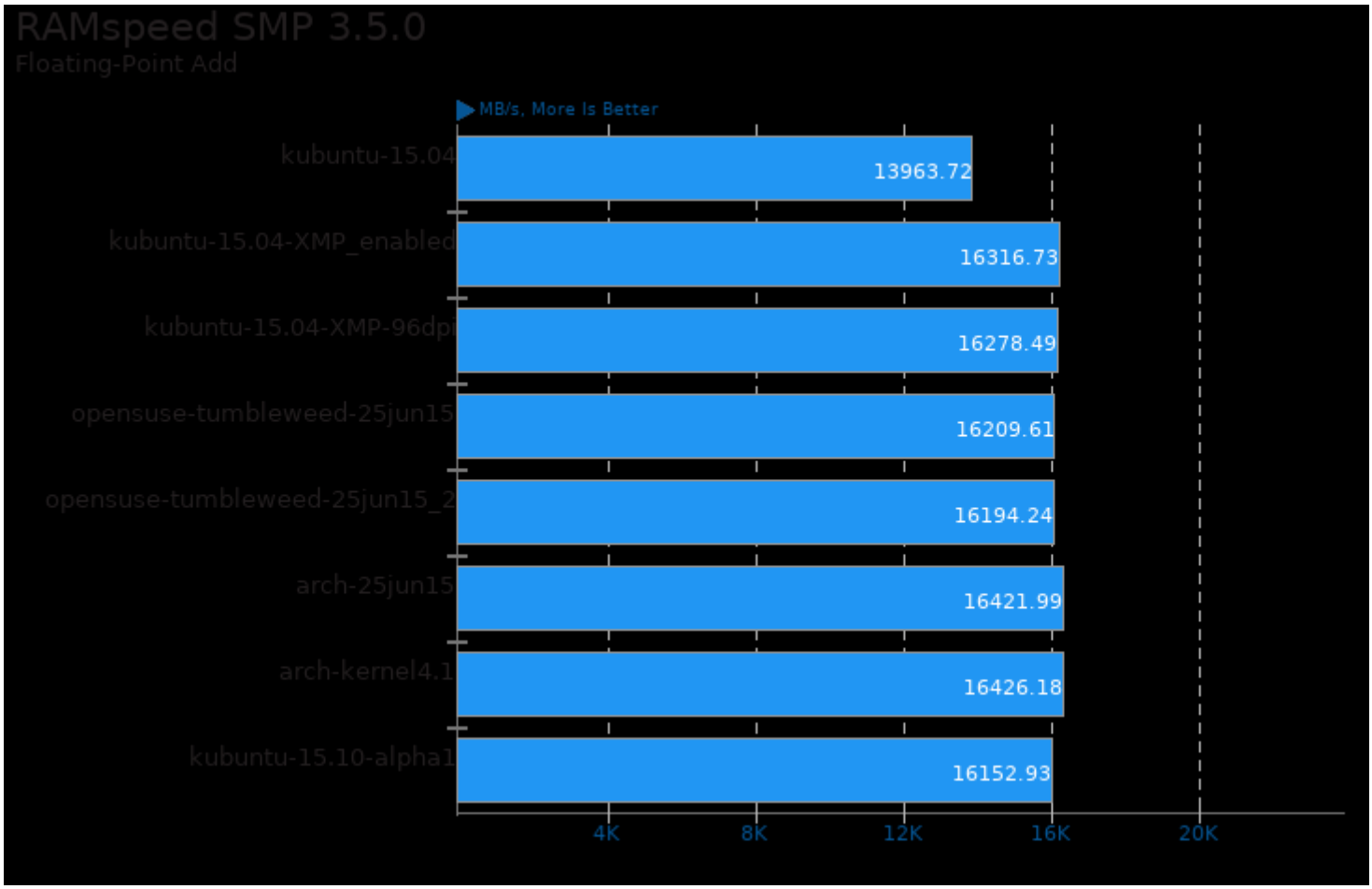

Metro 2033 Redux
1920 x 1080
Frames Per Second, More Is Better
kubuntu-15.04
SE +/- 0.44, N = 3
48.20
kubuntu-15.04-XMP_enabled
SE +/- 0.06, N = 3
48.56
kubuntu-15.04-XMP-96dpi
SE +/- 0.29, N = 3
48.30
opensuse-tumbleweed-25jun15
SE +/- 0.03, N = 3
48.34
opensuse-tumbleweed-25jun15_2
SE +/- 0.05, N = 3
48.41
arch-25jun15
SE +/- 0.04, N = 3
48.51
arch-kernel4.1
SE +/- 0.02, N = 3
48.53
kubuntu-15.10-alpha1
SE +/- 0.03, N = 3
48.42
11
22
33
44
55

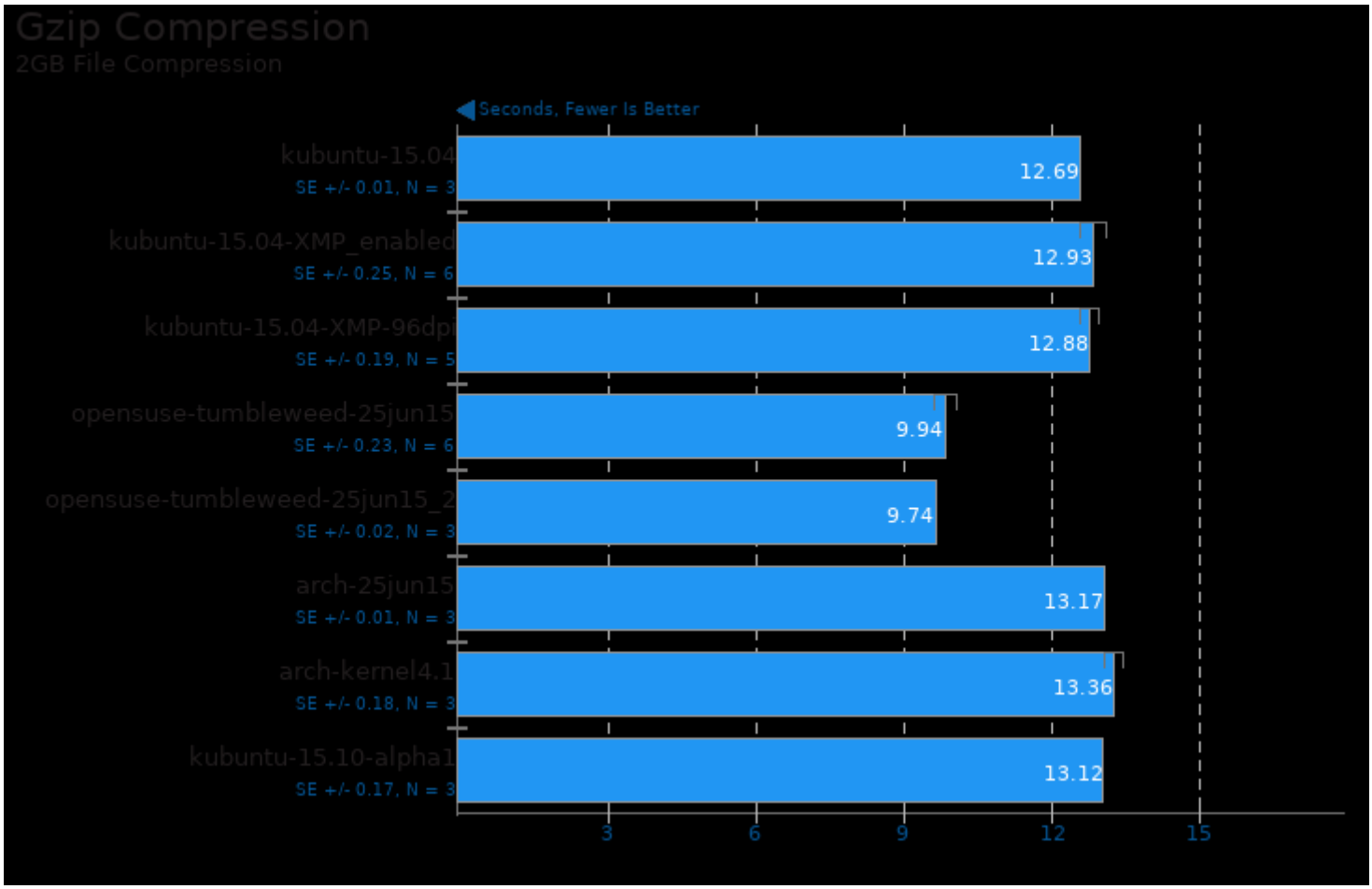
zone-104


OpenArena 0.8.8
1920 x 1080
Frames Per Second, More Is Better
kubuntu-15.04
SE +/- 0.06, N = 3
MIN: 5
106.40
kubuntu-15.04-XMP_enabled
SE +/- 0.03, N = 3
MIN: 5
106.43
kubuntu-15.04-XMP-96dpi
SE +/- 0.03, N = 3
MIN: 5
106.47
opensuse-tumbleweed-25jun15
SE +/- 0.03, N = 3
MIN: 6
97.67
opensuse-tumbleweed-25jun15_2
SE +/- 0.07, N = 3
MIN: 6
97.67
arch-25jun15
SE +/- 0.00, N = 3
MIN: 6
106.50
arch-kernel4.1
SE +/- 0.00, N = 3
MIN: 6
106.50
kubuntu-15.10-alpha1
SE +/- 0.03, N = 3
MIN: 6
106.43
20
40
60
80
100


OpenArena 0.8.8
1920 x 1080 - Total Frame Time
Milliseconds, Fewer Is Better
kubuntu-15.04
Min: 6 / Avg: 9.38 / Max: 14
kubuntu-15.04-XMP_enabled
Min: 5 / Avg: 9.38 / Max: 15
kubuntu-15.04-XMP-96dpi
Min: 6 / Avg: 9.38 / Max: 17
opensuse-tumbleweed-25jun15
Min: 6 / Avg: 10.23 / Max: 16
opensuse-tumbleweed-25jun15_2
Min: 6 / Avg: 10.22 / Max: 16
arch-25jun15
Min: 6 / Avg: 9.37 / Max: 16
arch-kernel4.1
Min: 6 / Avg: 9.38 / Max: 15
kubuntu-15.10-alpha1
Min: 6 / Avg: 9.37 / Max: 16
4
8
12
16
20


GpuTest 0.7.0
Gpu test - Furmark 1920 x 1080
Points, More Is Better
kubuntu-15.04
SE +/- 0.33, N = 3
1102
kubuntu-15.04-XMP_enabled
SE +/- 0.33, N = 3
1101
kubuntu-15.04-XMP-96dpi
SE +/- 0.33, N = 3
1103
opensuse-tumbleweed-25jun15
SE +/- 0.58, N = 3
1101
opensuse-tumbleweed-25jun15_2
SE +/- 0.33, N = 3
1101
arch-25jun15
SE +/- 0.67, N = 3
1102
arch-kernel4.1
SE +/- 0.33, N = 3
1103
kubuntu-15.10-alpha1
SE +/- 0.33, N = 3
1100
200
400
600
800
1000


RAMspeed SMP 3.5.0
Floating-Point Add
MB/s, More Is Better
kubuntu-15.04
13963.72
kubuntu-15.04-XMP_enabled
16316.73
kubuntu-15.04-XMP-96dpi
16278.49
opensuse-tumbleweed-25jun15
16209.61
opensuse-tumbleweed-25jun15_2
16194.24
arch-25jun15
16421.99
arch-kernel4.1
16426.18
kubuntu-15.10-alpha1
16152.93
4K
8K
12K
16K
20K



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