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interzone

Intel Core i5-3450 testing with a MSI Z77A-G43 (MS-7758) v1.0 and NVIDIA GeForce GTX 1060 6GB 6144MB on Arch Linux via the Phoronix Test Suite.

Automated Executive Summary

arch-1060 had the most wins, coming in first place for 42% of the tests.

Test Systems:

arch-240317

arch-240317-nocomp

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 (50/202MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Arch Linux, Kernel: 4.10.5-1-ARCH (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 378.13, Vulkan: 1.0.37, Compiler: GCC 6.3.1 20170306, 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-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

arch-240317-encturbo

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 (405/270MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Arch Linux, Kernel: 4.10.5-1-ARCH (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 378.13, Vulkan: 1.0.37, Compiler: GCC 6.3.1 20170306, 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-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

latest

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: 4.10.5-1-ARCH (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 378.13, Vulkan: 1.0.37, Compiler: GCC 6.3.1 20170306, 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-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate performance

arch-250317-gnome

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 (50/202MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Arch Linux, Kernel: 4.10.5-1-ARCH (x86_64), Desktop: GNOME Shell 3.22.3, Display Driver: NVIDIA 378.13, Vulkan: 1.0.37, Compiler: GCC 6.3.1 20170306 + Clang 3.9.1, 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-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

arch-260317-nv1060

arch-1060

interzone

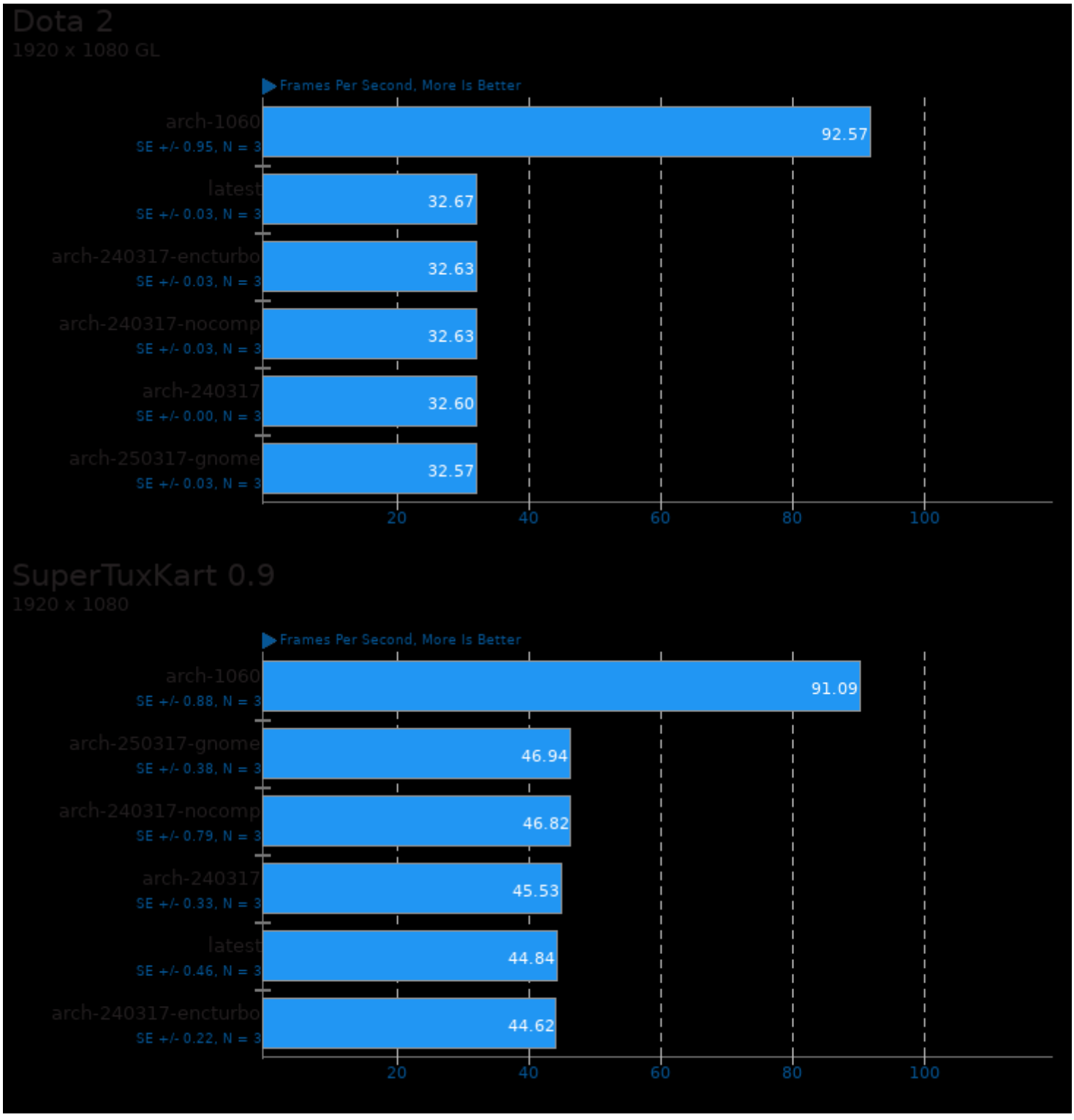
Processor: Intel Core i5-3450 @ 3.50GHz (4 Cores), Motherboard: MSI Z77A-G43 (MS-7758) v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 2000GB Seagate ST2000DM001-9YN1 + 2000GB D3 Station, Graphics: NVIDIA GeForce GTX 1060 6GB 6144MB (1657/4006MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

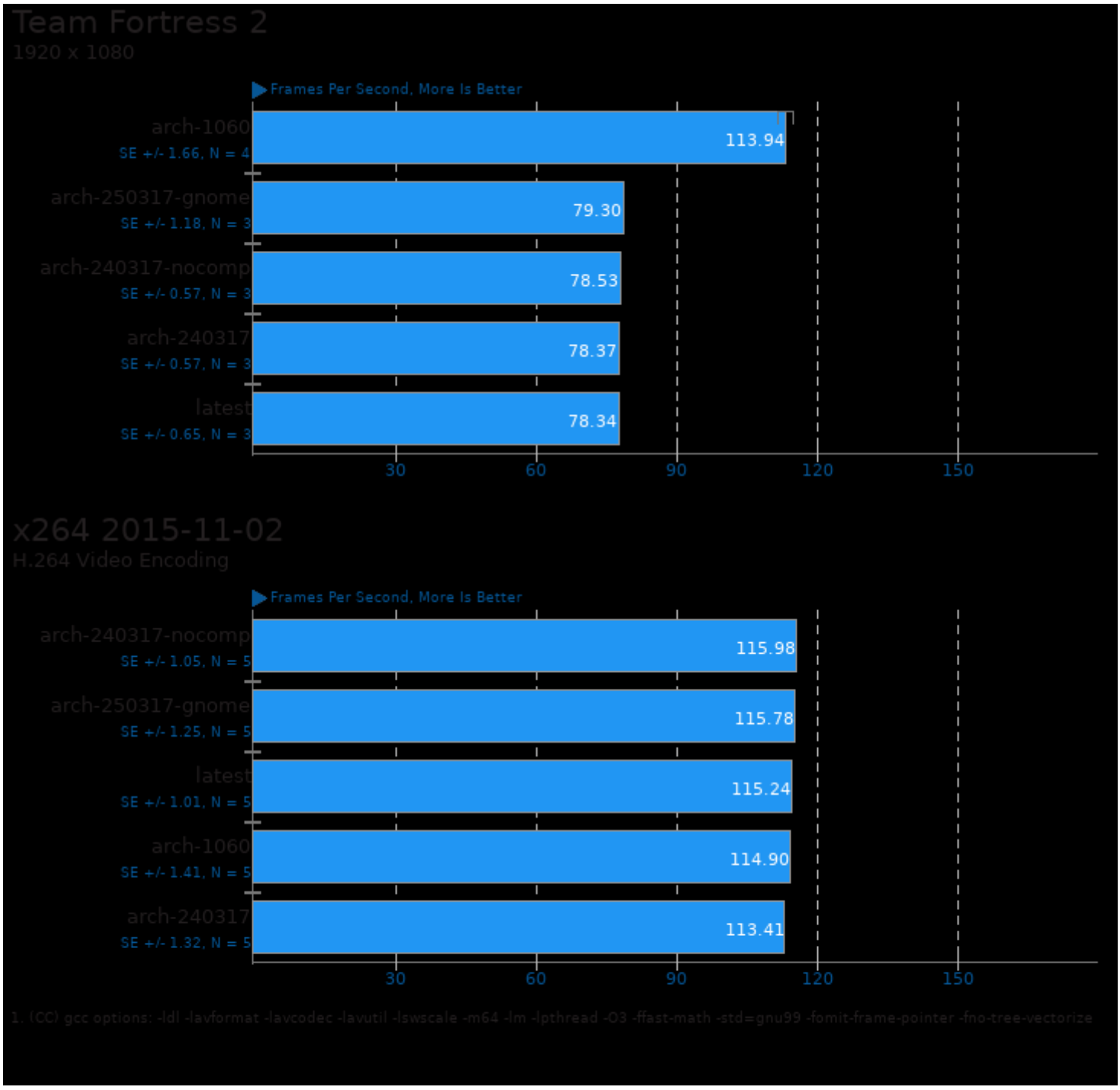
OS: Arch Linux, Kernel: 4.10.5-1-ARCH (x86_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 378.13, Vulkan: 1.0.37, Compiler: GCC 6.3.1 20170306 + Clang 3.9.1, File-System: ext4, Screen Resolution: 1920x1080

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-isl --with-linker-hash-style=gnu
Disk Notes: CFQ / data=ordered,noatime,rw
Processor Notes: Scaling Governor: intel_pstate powersave

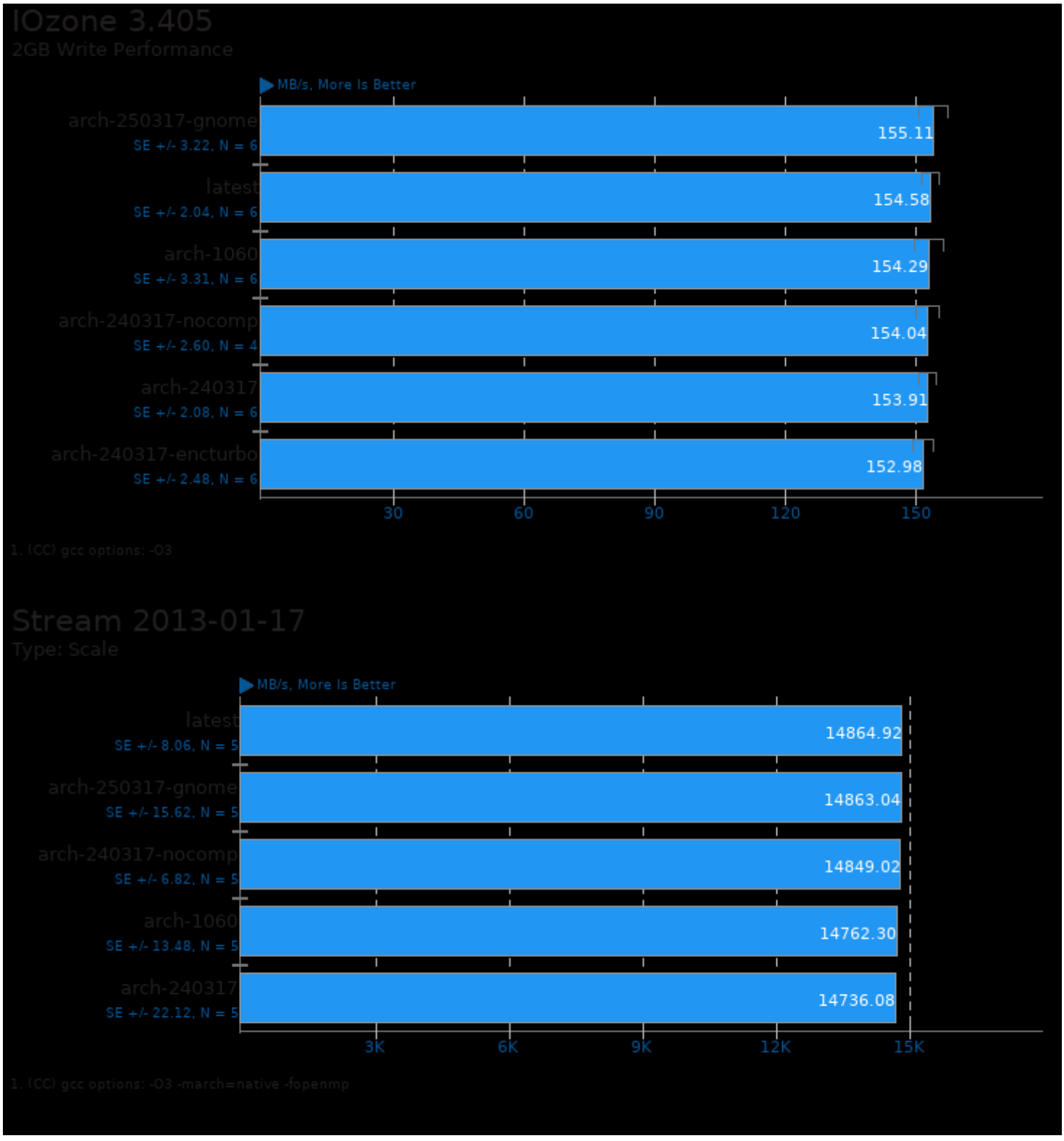
	arch-240317	arch-240317 -nocomp	arch-240317 -encturbo	latest	arch-250317 -gnome	arch-260317 -nv1060	arch-1060
Dota 2 - 1920 x 1080 GL (FPS)	32.60	32.63	32.63	32.67	**32.57**		**92.57**
Normalized	35.22%	35.25%	35.25%	35.29%	35.18%		100%
Standard Deviation	0%	0.2%	0.2%	0.2%	0.2%		1.8%
SuperTuxKart - 1920 x 1080 (FPS)	45.53	46.82	**44.62**	44.84	46.94		**91.09**
Normalized	49.98%	51.4%	48.98%	49.23%	51.53%		100%
Standard Deviation	1.2%	2.9%	0.9%	1.8%	1.4%		1.7%
Team Fortress 2 - 1920 x 1080 (FPS)	78.37	78.53		**78.34**	79.30		**113.94**
Normalized	68.78%	68.92%		68.76%	69.6%		100%
Standard Deviation	1.3%	1.3%		1.4%	2.6%		2.9%
x264 - H.2.V.E (FPS)	**113.41**	**115.98**		115.24	115.78		114.90
Normalized	97.78%	100%		99.36%	99.83%		99.07%
Standard Deviation	2.6%	2%		2%	2.4%		2.8%
IOzone - 2.W.P (MB/s)	153.91	154.04	**152.98**	154.58	**155.11**		154.29
Normalized	99.23%	99.31%	98.63%	99.66%	100%		99.47%
Standard Deviation	3.3%	3.4%	4%	3.2%	5.1%		5.3%
Stream - Scale (MB/s)	**14736**	14849		**14865**	14863		14762
Normalized	99.13%	99.89%		100%	99.99%		99.31%
Standard Deviation	0.3%	0.1%		0.1%	0.2%		0.2%
IOzone - 2.R.P (MB/s)	3721	3695	4368	**4382**	3977		**3680**
Normalized	84.93%	84.34%	99.68%	100%	90.77%		83.99%
Standard Deviation	105%	105%	105.7%	105.7%	105.8%		105%

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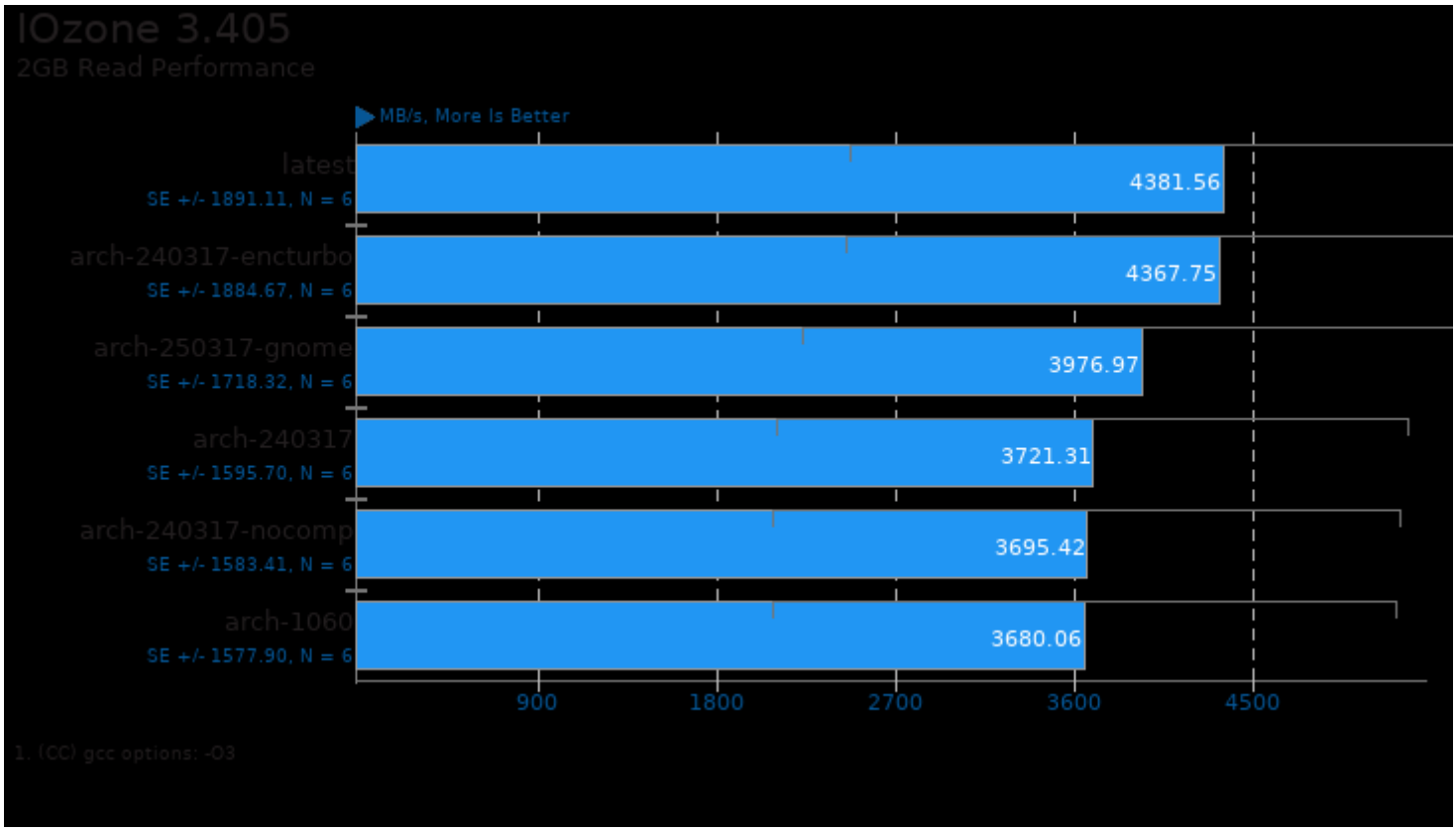

Dota 2
1920 x 1080 GL
Frames Per Second, More Is Better
arch-1060
SE +/- 0.95, N = 3
92.57
latest
SE +/- 0.03, N = 3
32.67
arch-240317-encturbo
SE +/- 0.03, N = 3
32.63
arch-240317-nocomp
SE +/- 0.03, N = 3
32.63
arch-240317
SE +/- 0.00, N = 3
32.60
arch-250317-gnome
SE +/- 0.03, N = 3
32.57
20
40
60
80
100
SuperTuxKart 0.9
1920 x 1080
Frames Per Second, More Is Better
arch-1060
SE +/- 0.88, N = 3
91.09
arch-250317-gnome
SE +/- 0.38, N = 3
46.94
arch-240317-nocomp
SE +/- 0.79, N = 3
46.82
arch-240317
SE +/- 0.33, N = 3
45.53
latest
SE +/- 0.46, N = 3
44.84
arch-240317-encturbo
SE +/- 0.22, N = 3
44.62
20
40
60
80
100


Team Fortress 2
1920 x 1080
Frames Per Second, More Is Better
arch-1060
SE +/- 1.66, N = 4
113.94
arch-250317-gnome
SE +/- 1.18, N = 3
79.30
arch-240317-nocomp
SE +/- 0.57, N = 3
78.53
arch-240317
SE +/- 0.57, N = 3
78.37
latest
SE +/- 0.65, N = 3
78.34
30
60
90
120
150
x264 2015-11-02
H.264 Video Encoding
Frames Per Second, More Is Better
arch-240317-nocomp
SE +/- 1.05, N = 5
115.98
arch-250317-gnome
SE +/- 1.25, N = 5
115.78
latest
SE +/- 1.01, N = 5
115.24
arch-1060
SE +/- 1.41, N = 5
114.90
arch-240317
SE +/- 1.32, N = 5
113.41
30
60
90
120
150
1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fomit-frame-pointer -fno-tree-vectorize

interzone


IOzone 3.405
2GB Write Performance
MB/s, More Is Better
arch-250317-gnome
SE +/- 3.22, N = 6
155.11
latest
SE +/- 2.04, N = 6
154.58
arch-1060
SE +/- 3.31, N = 6
154.29
arch-240317-nocomp
SE +/- 2.60, N = 4
154.04
arch-240317
SE +/- 2.08, N = 6
153.91
arch-240317-encturbo
SE +/- 2.48, N = 6
152.98
30
60
90
120
150
1. (CC) gcc options: -O3
Stream 2013-01-17
Type: Scale
MB/s, More Is Better
latest
SE +/- 8.06, N = 5
14864.92
arch-250317-gnome
SE +/- 15.62, N = 5
14863.04
arch-240317-nocomp
SE +/- 6.82, N = 5
14849.02
arch-1060
SE +/- 13.48, N = 5
14762.30
arch-240317
SE +/- 22.12, N = 5
14736.08
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native -fopenmp

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