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interzone

Intel Core i5-3450 testing with a MSI Z77A-G43 (MS-7758) v1.0 and MSI NVIDIA GeForce GTS 450 1024MB on Arch Linux via the Phoronix Test Suite.

Automated Executive Summary

latest had the most wins, coming in first place for 57% of the tests.

Based on the geometric mean of all complete results, the fastest (latest) was 1.039x the speed of the slowest (arch-240317). arch-240317-encturbo was 0.995x the speed of latest, arch-240317-nocomp was 0.972x the speed of arch-240317-encturbo, arch-240317 was 0.994x the speed of arch-240317-nocomp.

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-240317	arch-240317-nocomp	arch-240317-encturbo	latest
x264 - H.2.V.E (FPS)	**113.41**	**115.98**		115.24
Normalized	97.78%	100%		99.36%
Standard Deviation	2.6%	2%		2%
Stream - Scale (MB/s)	**14736**	14849		**14865**
Normalized	99.13%	99.89%		100%
Standard Deviation	0.3%	0.1%		0.1%
Team Fortress 2 - 1920 x 1080 (FPS)	78.37	**78.53**		**78.34**

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Normalized	99.8%	100%		99.76%
Standard Deviation	1.3%	1.3%		1.4%
SuperTuxKart - 1920 x 1080 (FPS)	45.53	**46.82**	**44.62**	44.84
Normalized	97.24%	100%	95.3%	95.77%
Standard Deviation	1.2%	2.9%	0.9%	1.8%
Dota 2 - 1920 x 1080 GL (FPS)	**32.60**	32.63	32.63	**32.67**
Normalized	99.79%	99.88%	99.88%	100%
Standard Deviation	0%	0.2%	0.2%	0.2%
IOzone - 2.W.P (MB/s)	153.91	154.04	**152.98**	**154.58**
Normalized	99.57%	99.65%	98.96%	100%
Standard Deviation	3.3%	3.4%	4%	3.2%
IOzone - 2.R.P (MB/s)	3721	**3695**	4368	**4382**
Normalized	84.93%	84.34%	99.68%	100%
Standard Deviation	105%	105%	105.7%	105.7%

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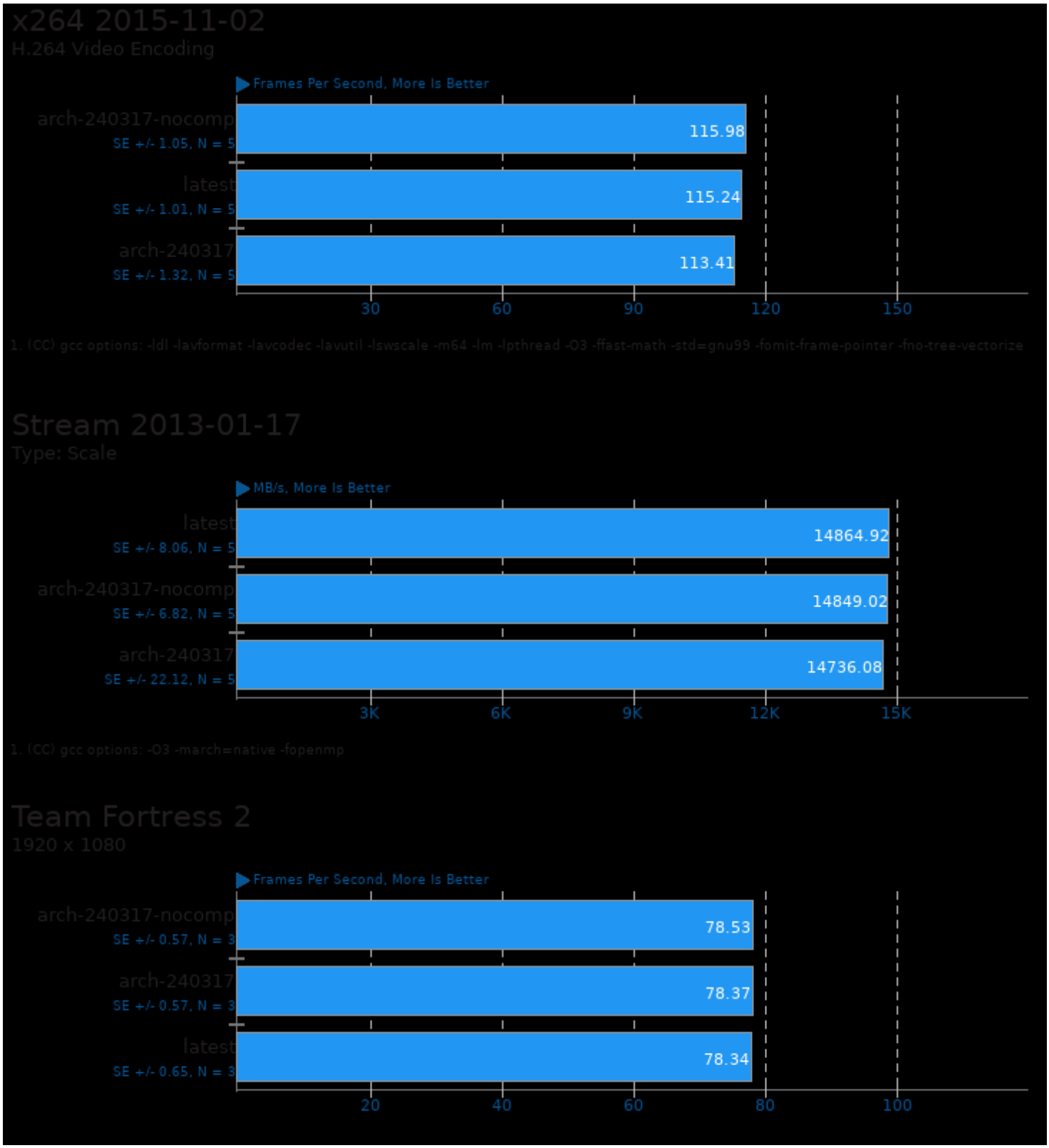
x264 2015-11-02
H.264 Video Encoding
Frames Per Second, More Is Better
arch-240317-nocomp
SE +/- 1.05, N = 5
115.98
latest
SE +/- 1.01, N = 5
115.24
arch-240317
SE +/- 1.32, N = 5
113.41
30
60
90
120
150
1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fomit-frame-pointer -fno-tree-vectorize
Stream 2013-01-17
Type: Scale
MB/s, More Is Better
latest
SE +/- 8.06, N = 5
14864.92
arch-240317-nocomp
SE +/- 6.82, N = 5
14849.02
arch-240317
SE +/- 22.12, N = 5
14736.08
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native -fopenmp
Team Fortress 2
1920 x 1080
Frames Per Second, More Is Better
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
20
40
60
80
100

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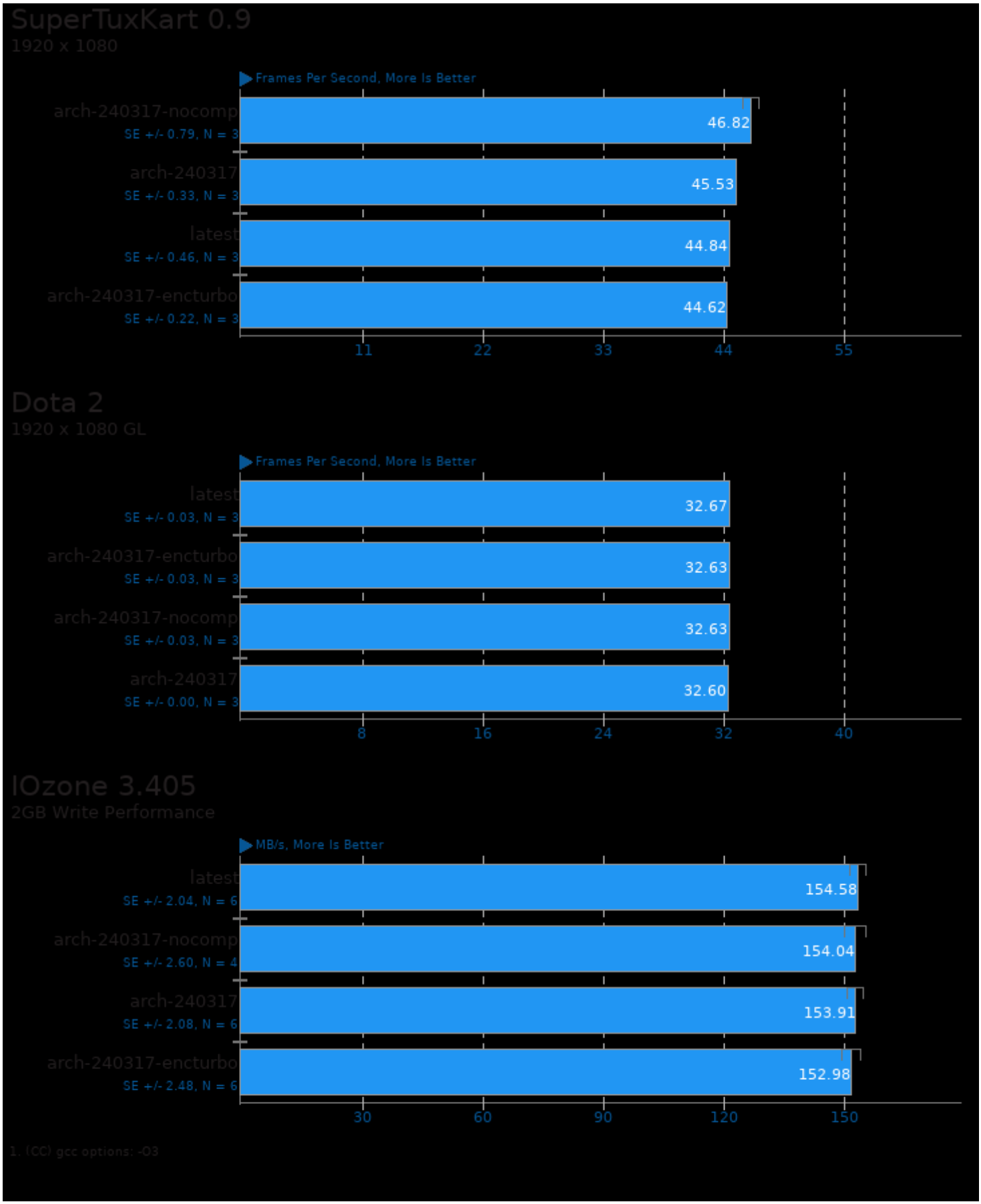
SuperTuxKart 0.9
1920 x 1080
Frames Per Second, More Is Better
arch-240317-nocomp
SE +/- 0.79, N = 3
46.82
arch-240317
SE +/- 0.33, N = 3
45.53
latest
SE +/- 0.46, N = 3
44.84
arch-240317-encturbo
SE +/- 0.22, N = 3
44.62
11
22
33
44
55
Dota 2
1920 x 1080 GL
Frames Per Second, More Is Better
latest
SE +/- 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
8
16
24
32
40
IOzone 3.405
2GB Write Performance
MB/s, More Is Better
latest
SE +/- 2.04, N = 6
154.58
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

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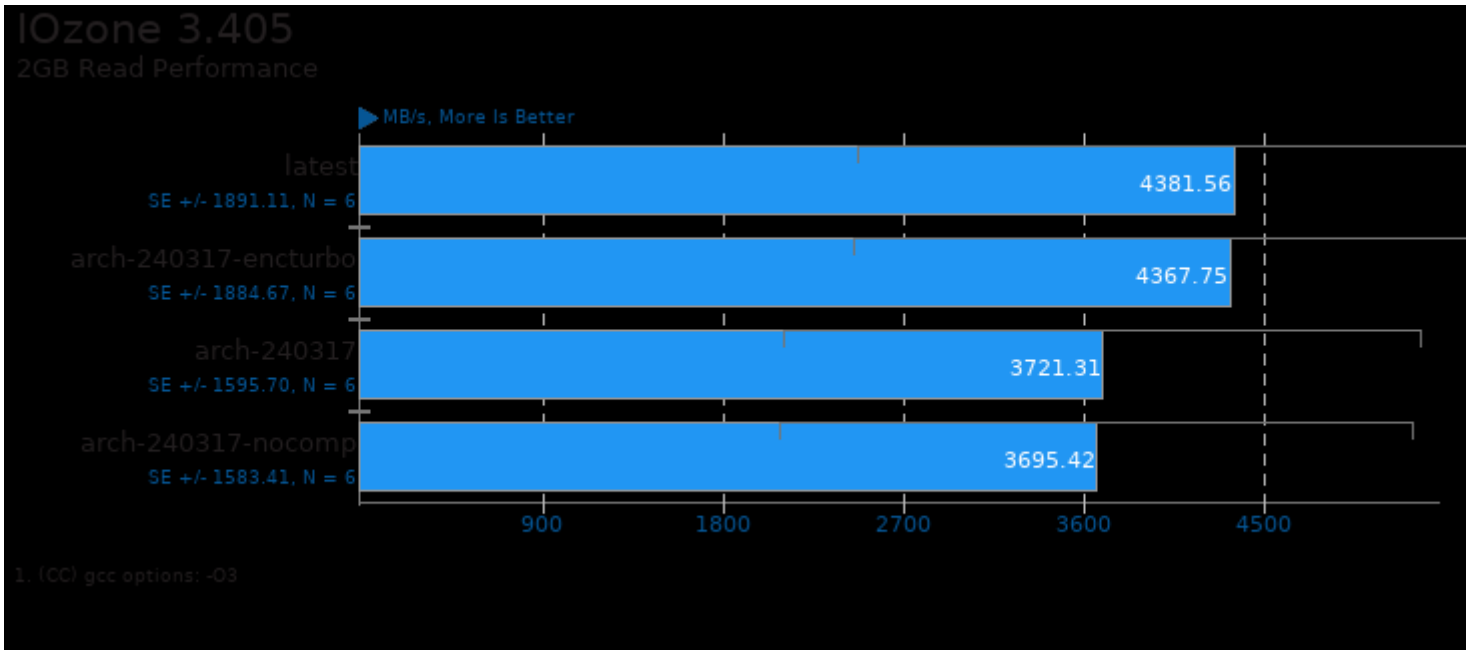

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