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Intel Core i7-5775C testing with a MSI Z97-G45 GAMING (MS-7821) v1.0 (V2.9 BIOS) and MSI Intel Iris Pro 6200 3GB on Ubuntu 18.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 44% of the tests.

Based on the geometric mean of all complete results, the fastest (2) was 1.003x the speed of the slowest (3). 1 was 0.999x the speed of 2 and 3 was 0.999x the speed of 1.

Test Systems:

1

2

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3

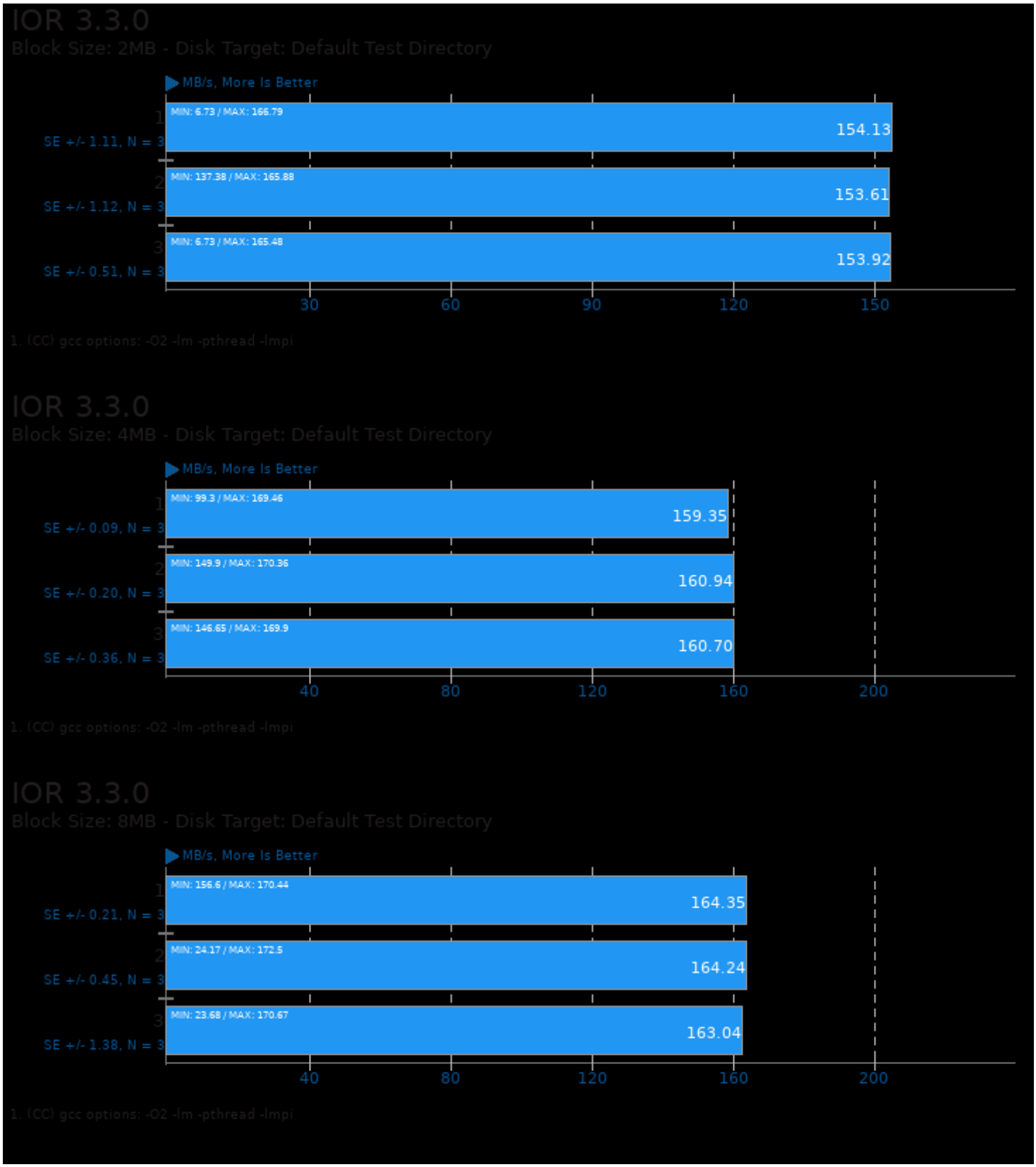
Processor: Intel Core i7-5775C @ 3.70GHz (4 Cores / 8 Threads), Motherboard: MSI Z97-G45 GAMING (MS-7821) v1.0 (V2.9 BIOS), Chipset: Intel Broadwell-U DMI, Memory: 16GB, Disk: 120GB CT120BX100SSD1, Graphics: MSI Intel Iris Pro 6200 3GB (1150MHz), Audio: Intel Broadwell-U Audio, Monitor: VA2431, Network: Qualcomm Atheros Killer E220x

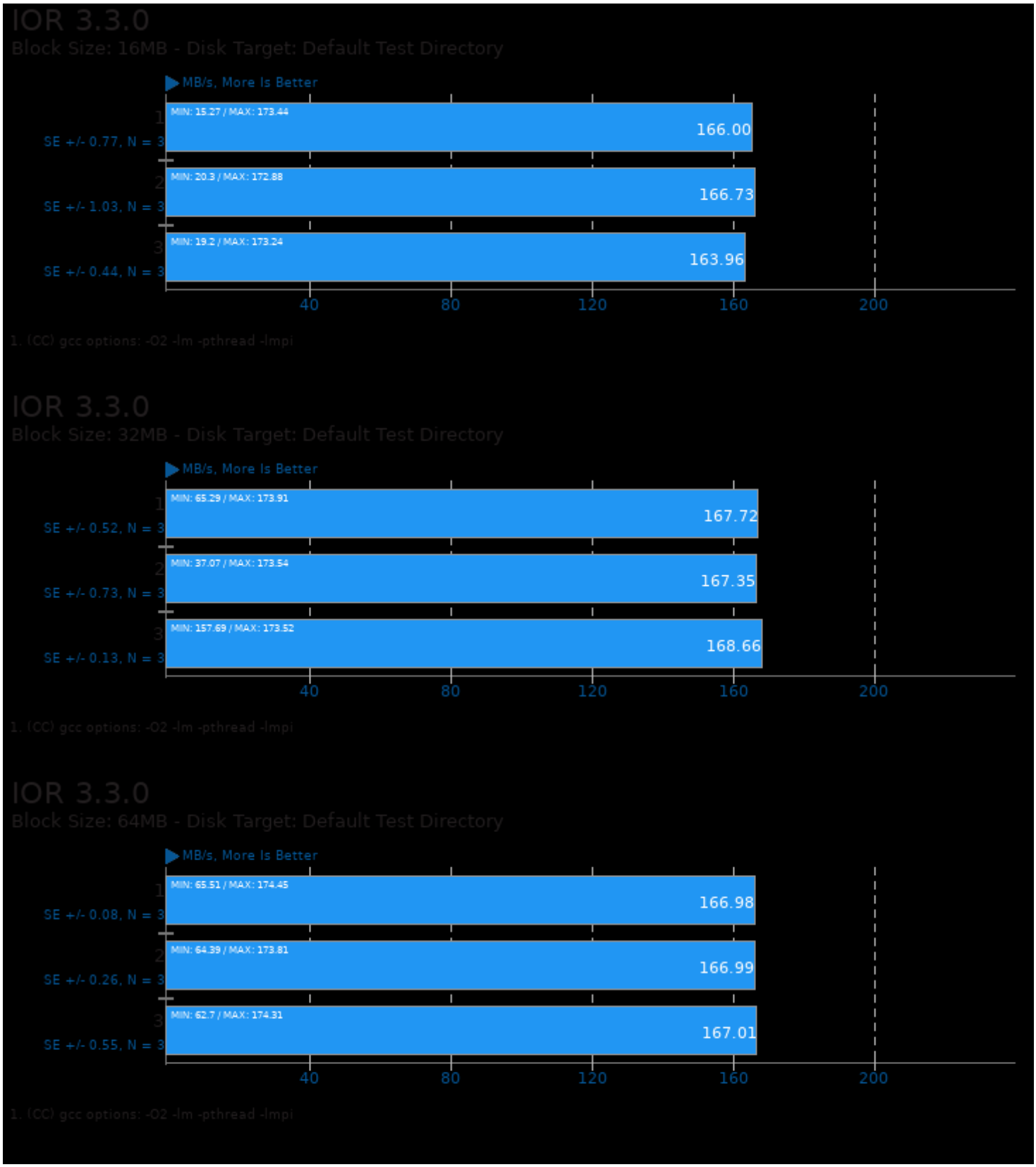
OS: Ubuntu 18.10, Kernel: 5.0.0-999-generic (x86_64) 20190223, Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.1, Display Driver: modesetting 1.20.1, OpenGL: 4.5 Mesa 19.2.0-devel (git-2631fd3 2019-07-24 cosmic-oibaf-ppa), Vulkan: 1.1.102, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1920x1080

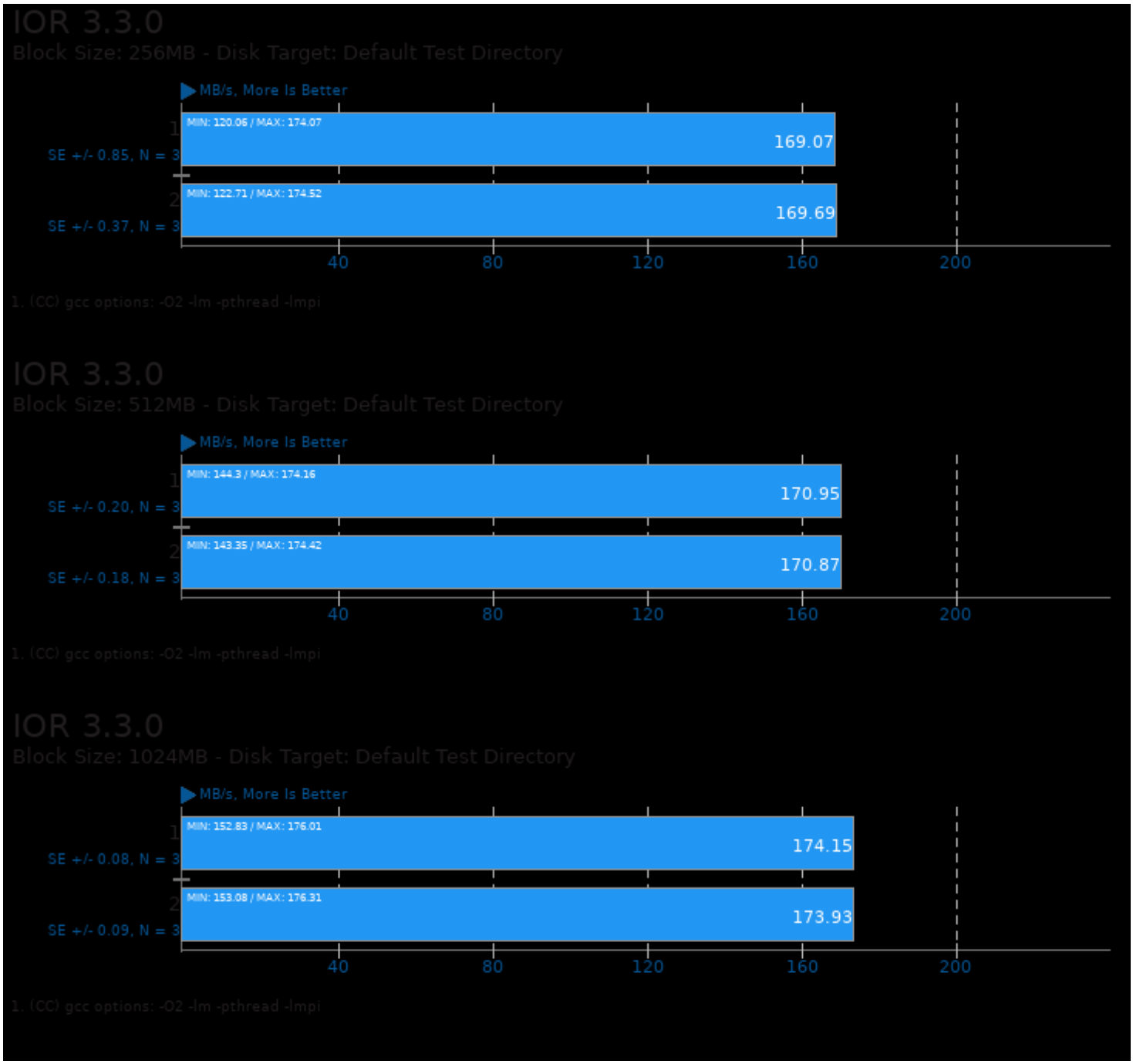
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --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
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x20 - Thermald 1.7
Security Notes: l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling

	1	2	3
IOR - 2MB (MB/s)	**154.13**	**153.61**	153.92
Normalized	100%	99.66%	99.86%
Standard Deviation	1.3%	1.3%	0.6%
IOR - 4MB (MB/s)	**159.35**	**160.94**	160.70
Normalized	99.01%	100%	99.85%
Standard Deviation	0.1%	0.2%	0.4%
IOR - 8MB (MB/s)	**164.35**	164.24	**163.04**
Normalized	100%	99.93%	99.2%
Standard Deviation	0.2%	0.5%	1.5%
IOR - 16MB (MB/s)	166.00	**166.73**	**163.96**
Normalized	99.56%	100%	98.34%
Standard Deviation	0.8%	1.1%	0.5%
IOR - 32MB (MB/s)	167.72	**167.35**	**168.66**
Normalized	99.44%	99.22%	100%
Standard Deviation	0.5%	0.8%	0.1%
IOR - 64MB (MB/s)	**166.98**	166.99	**167.01**
Normalized	99.98%	99.99%	100%
Standard Deviation	0.1%	0.3%	0.6%
IOR - 256MB (MB/s)	**169.07**	**169.69**	
Normalized	99.63%	100%	
Standard Deviation	0.9%	0.4%	
IOR - 512MB (MB/s)	**170.95**	**170.87**	
Normalized	100%	99.95%	
Standard Deviation	0.2%	0.2%	
IOR - 1024MB (MB/s)	**174.15**	**173.93**	
Normalized	100%	99.87%	
Standard Deviation	0.1%	0.1%	

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IOR 3.3.0
Block Size: 16MB - Disk Target: Default Test Directory
MB/s, More Is Better
1
MIN: 15.27 / MAX: 173.44
166.00
SE +/- 0.77, N = 3
2
MIN: 20.3 / MAX: 172.88
166.73
SE +/- 1.03, N = 3
3
MIN: 19.2 / MAX: 173.24
163.96
SE +/- 0.44, N = 3
40
80
120
160
200
1. (CC) gcc options: -O2 -lm -pthread -lmpi
IOR 3.3.0
Block Size: 32MB - Disk Target: Default Test Directory
MB/s, More Is Better
1
MIN: 65.29 / MAX: 173.91
167.72
SE +/- 0.52, N = 3
2
MIN: 37.07 / MAX: 173.54
167.35
SE +/- 0.73, N = 3
3
MIN: 157.69 / MAX: 173.52
168.66
SE +/- 0.13, N = 3
40
80
120
160
200
1. (CC) gcc options: -O2 -lm -pthread -lmpi
IOR 3.3.0
Block Size: 64MB - Disk Target: Default Test Directory
MB/s, More Is Better
1
MIN: 65.51 / MAX: 174.45
166.98
SE +/- 0.08, N = 3
2
MIN: 64.39 / MAX: 173.81
166.99
SE +/- 0.26, N = 3
3
MIN: 62.7 / MAX: 174.31
167.01
SE +/- 0.55, N = 3
40
80
120
160
200
1. (CC) gcc options: -O2 -lm -pthread -lmpi



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 01:41.