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0610-optane-2-2-2

2 x Intel Xeon Gold 5220R testing with a HPE ProLiant DL360 Gen10 (U32 BIOS) and Matrox MGA G200eH3 on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

under memory load90

Processor: 2 x Intel Xeon Gold 5220R (48 Cores / 96 Threads), Motherboard: HPE ProLiant DL360 Gen10 (U32 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 32 GB + 129408 MB + 32 GB + 129408 MB + 32 GB + 129408 MB + 129408 MB + 32 GB + 129408 MB + 32 GB + 129408 MB + 32 GB + 32 GB + 129408 MB + 32 GB + 129408 MB + 32 GB + 129408 MB + 129408 MB + 32 GB + 129408 MB + 32 GB + 129408 MB + 32 GB DDR4-2666MT/s, Disk: 3201GB MO003200KWVUV, Graphics: Matrox MGA G200eH3, Network: 2 x Intel 10G X550T

OS: Ubuntu 18.04, Kernel: 4.15.0-140-generic (x86_64), Compiler: GCC 7.5.0, File-System: ext4, Screen Resolution: 1024x768

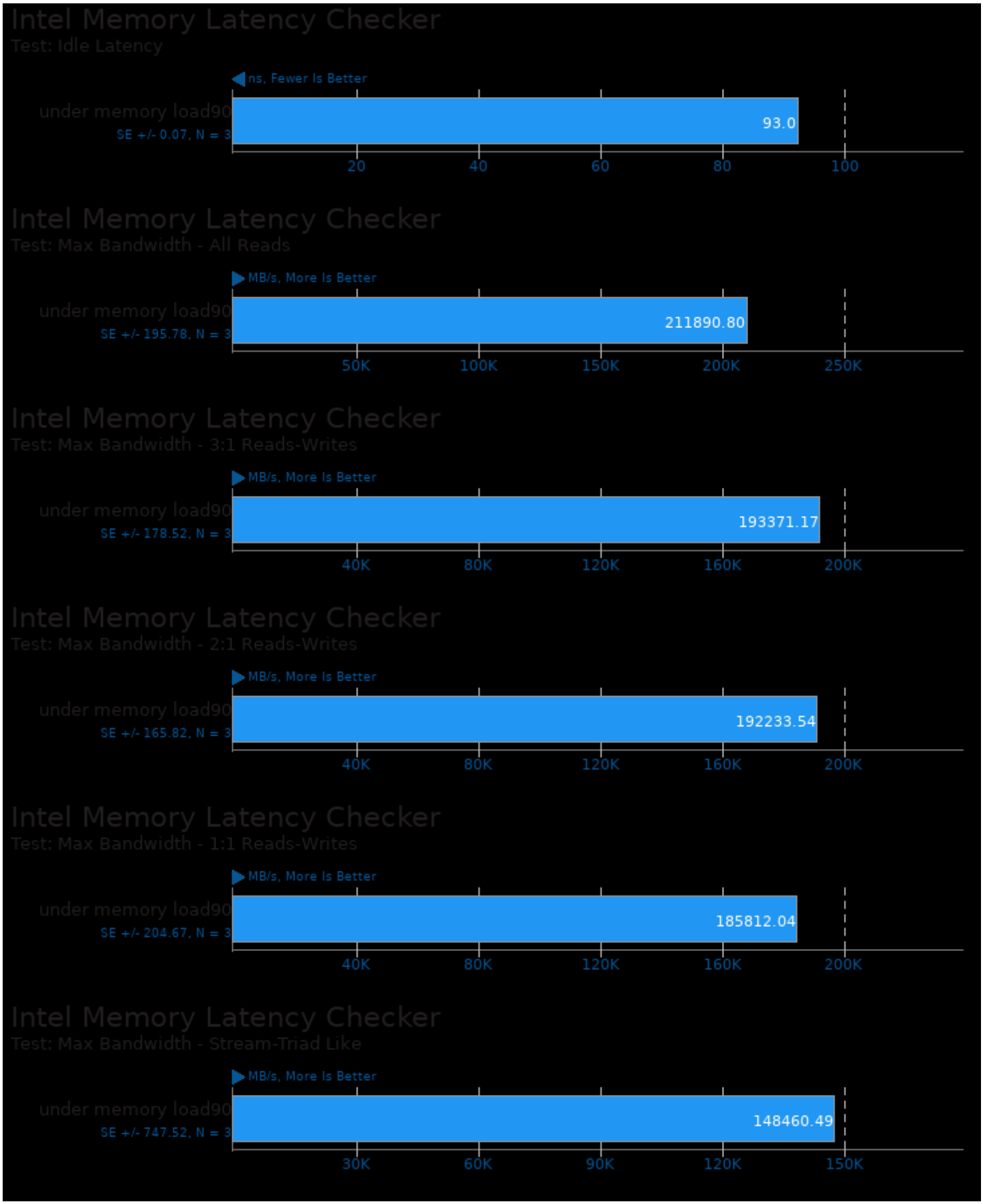
Kernel Notes: nvme_core.multipath=0 - Transparent Huge Pages: madvise
Processor Notes: CPU Microcode: 0x5003003

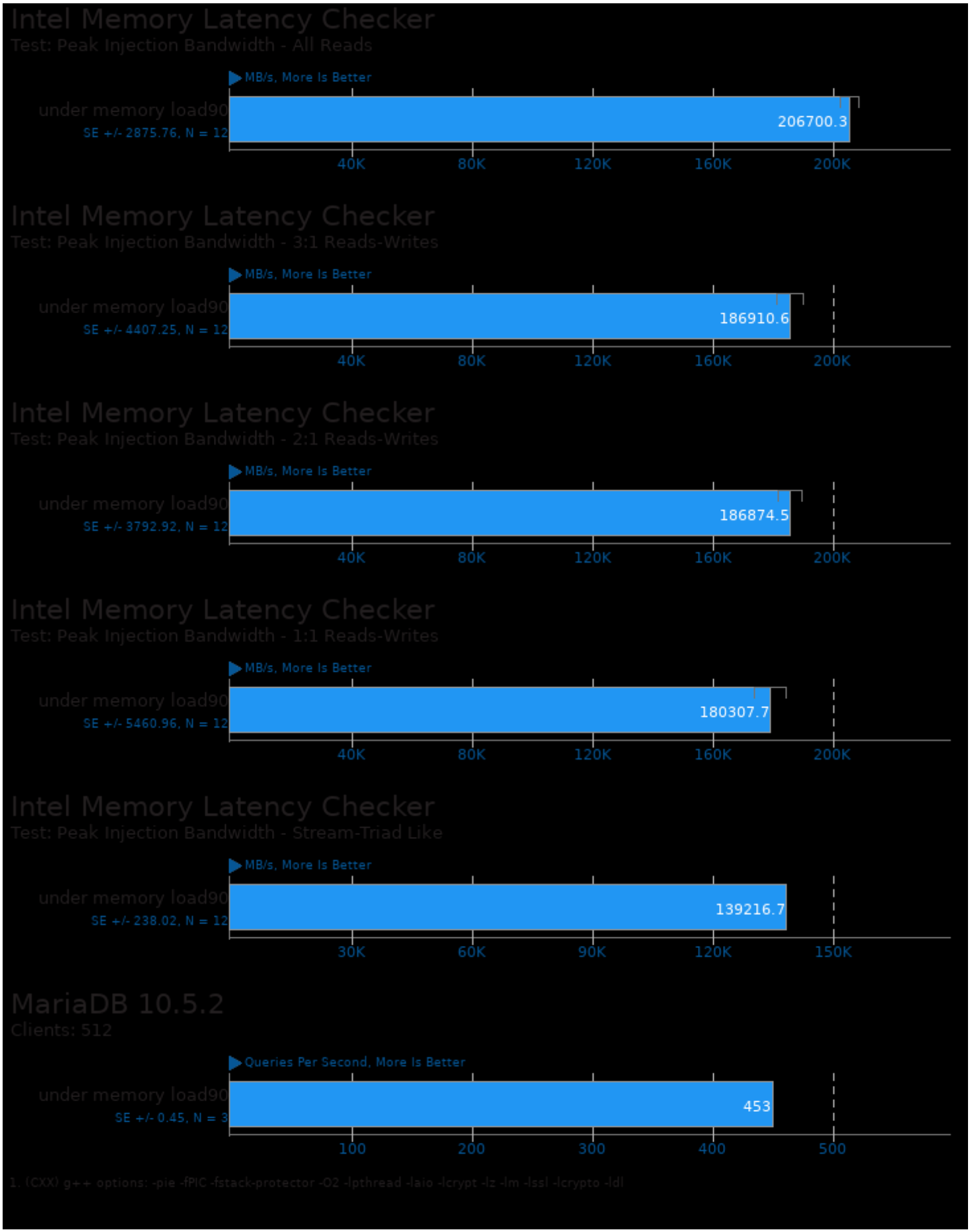
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Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	under memory load90
Intel Memory Latency Checker - Idle Latency (ns)	93.0
Standard Deviation	0.1%
Intel Memory Latency Checker - Max Bandwidth - All Reads (MB/s)	211891
Standard Deviation	0.2%
Intel Memory Latency Checker - Max Bandwidth - 3:1 Reads-Writes (MB/s)	193371
Standard Deviation	0.2%
Intel Memory Latency Checker - Max Bandwidth - 2:1 Reads-Writes (MB/s)	192234
Standard Deviation	0.1%
Intel Memory Latency Checker - Max Bandwidth - 1:1 Reads-Writes (MB/s)	185812
Standard Deviation	0.2%
Intel Memory Latency Checker - Max Bandwidth - Stream-Triad Like (MB/s)	148460
Standard Deviation	0.9%
Intel Memory Latency Checker - P.I.B - All Reads (MB/s)	206700
Standard Deviation	4.8%
Intel Memory Latency Checker - P.I.B - 3:1 Reads-Writes (MB/s)	186911
Standard Deviation	8.2%
Intel Memory Latency Checker - P.I.B - 2:1 Reads-Writes (MB/s)	186875
Standard Deviation	7%
Intel Memory Latency Checker - P.I.B - 1:1 Reads-Writes (MB/s)	180308
Standard Deviation	10.5%
Intel Memory Latency Checker - P.I.B - Stream-Triad Like (MB/s)	139217
Standard Deviation	0.6%
MariaDB - 512 (Queries/sec)	453
Standard Deviation	0.2%

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Intel Memory Latency Checker
Test: Peak Injection Bandwidth - All Reads
MB/s, More Is Better
under memory load90
SE +/- 2875.76, N = 12
206700.3
40K
80K
120K
160K
200K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - 3:1 Reads-Writes
MB/s, More Is Better
under memory load90
SE +/- 4407.25, N = 12
186910.6
40K
80K
120K
160K
200K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - 2:1 Reads-Writes
MB/s, More Is Better
under memory load90
SE +/- 3792.92, N = 12
186874.5
40K
80K
120K
160K
200K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - 1:1 Reads-Writes
MB/s, More Is Better
under memory load90
SE +/- 5460.96, N = 12
180307.7
40K
80K
120K
160K
200K
Intel Memory Latency Checker
Test: Peak Injection Bandwidth - Stream-Triad Like
MB/s, More Is Better
under memory load90
SE +/- 238.02, N = 12
139216.7
30K
60K
90K
120K
150K
MariaDB 10.5.2
Clients: 512
Queries Per Second, More Is Better
under memory load90
SE +/- 0.45, N = 3
453
100
200
300
400
500
1: (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -laio -lcrypt -lz -lm -lssl -lcrypto -ldl

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 09:59.