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intel mlc xeon test

Intel Xeon Silver 4216 testing with a TYAN S7100AG2NR (V4.02 BIOS) and ASPEED on Debian 10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 54% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.002x the speed of the slowest (2). 3 was 0.999x the speed of 1 and 2 was 0.999x the speed of 3.

Test Systems:

1

2

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3

Processor: Intel Xeon Silver 4216 @ 3.20GHz (16 Cores / 32 Threads), Motherboard: TYAN S7100AG2NR (V4.02 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 24GB, Disk: 240GB Corsair Force MP500, Graphics: ASPEED, Audio: Realtek ALC892, Network: 2 x Intel I350

OS: Debian 10, Kernel: 4.19.0-9-amd64 (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768

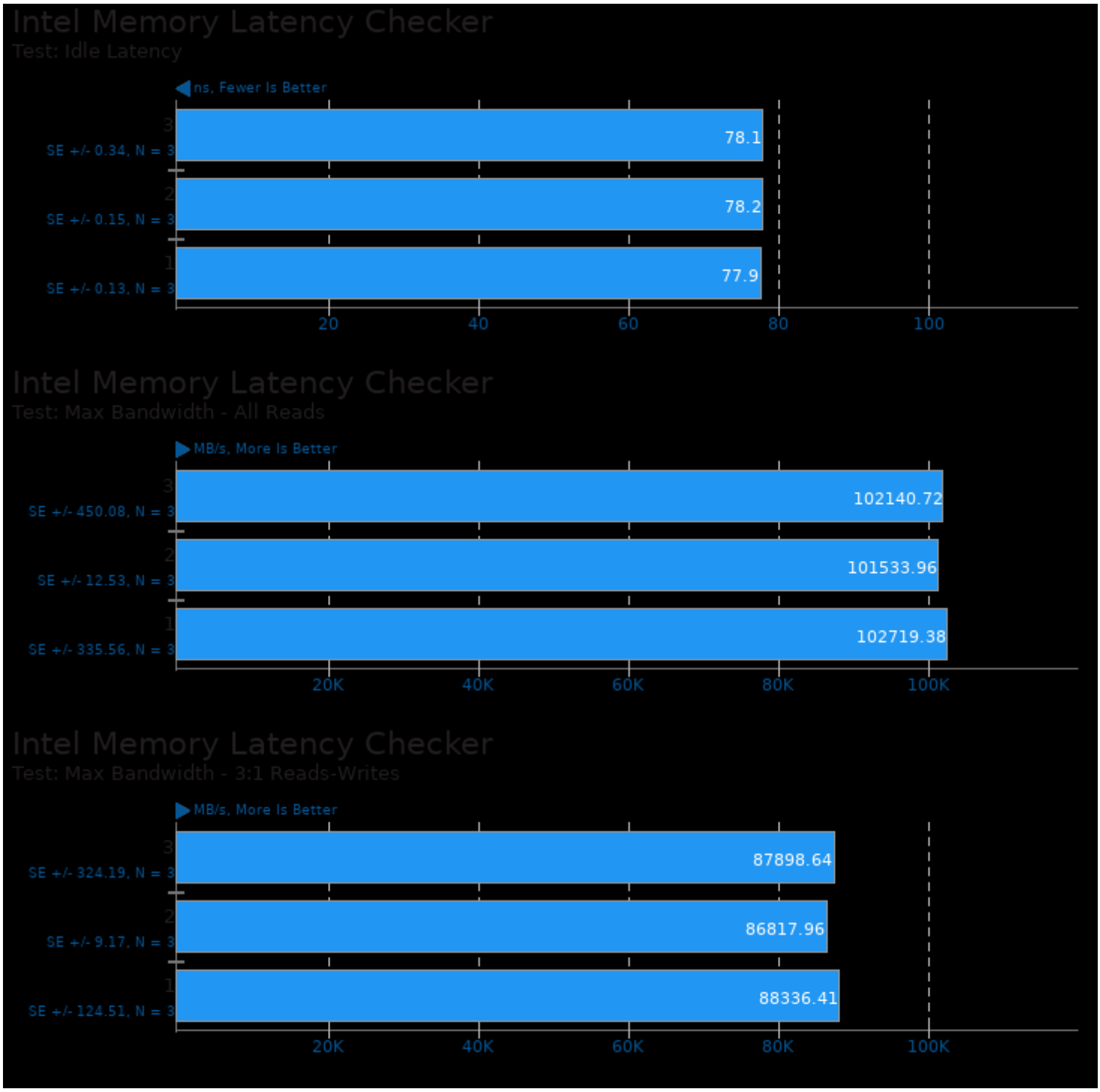
Kernel Notes: Transparent Huge Pages: always
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x500002c
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB 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

	1	2	3
Intel Memory Latency Checker - Idle Latency (ns)	**77.9**	**78.2**	78.1
Normalized	100%	99.62%	99.74%
Standard Deviation	0.3%	0.3%	0.8%
Intel Memory Latency Checker - Max Bandwidth - All Reads (MB/s)	**102719**	**101534**	102141
Normalized	100%	98.85%	99.44%
Standard Deviation	0.6%	0%	0.8%
Intel Memory Latency Checker - Max Bandwidth - 3:1 Reads-Writes (MB/s)	**88336**	**86818**	87899
Normalized	100%	98.28%	99.5%
Standard Deviation	0.2%	0%	0.6%
Intel Memory Latency Checker - Max Bandwidth - 2:1 Reads-Writes (MB/s)	**85327**	**84161**	85002
Normalized	100%	98.63%	99.62%
Standard Deviation	0.2%	0.1%	0.5%
Intel Memory Latency Checker - Max Bandwidth - 1:1 Reads-Writes (MB/s)	**73180**	**72935**	73092
Normalized	100%	99.67%	99.88%
Standard Deviation	0%	0.1%	0.1%
Intel Memory Latency Checker - Max Bandwidth - Stream-Triad Like (MB/s)	**90322**	**88625**	89785
Normalized	100%	98.12%	99.41%
Standard Deviation	0.2%	0.1%	0.8%
Intel Memory Latency Checker - P.I.B - All Reads (MB/s)	**100646**	**102650**	101211
Normalized	98.05%	100%	98.6%
Standard Deviation	2%	1.2%	0.7%
Intel Memory Latency Checker - P.I.B - 3:1 Reads-Writes (MB/s)	**87229**	**88032**	87544
Normalized	99.09%	100%	99.45%
Standard Deviation	1%	0.4%	0.4%

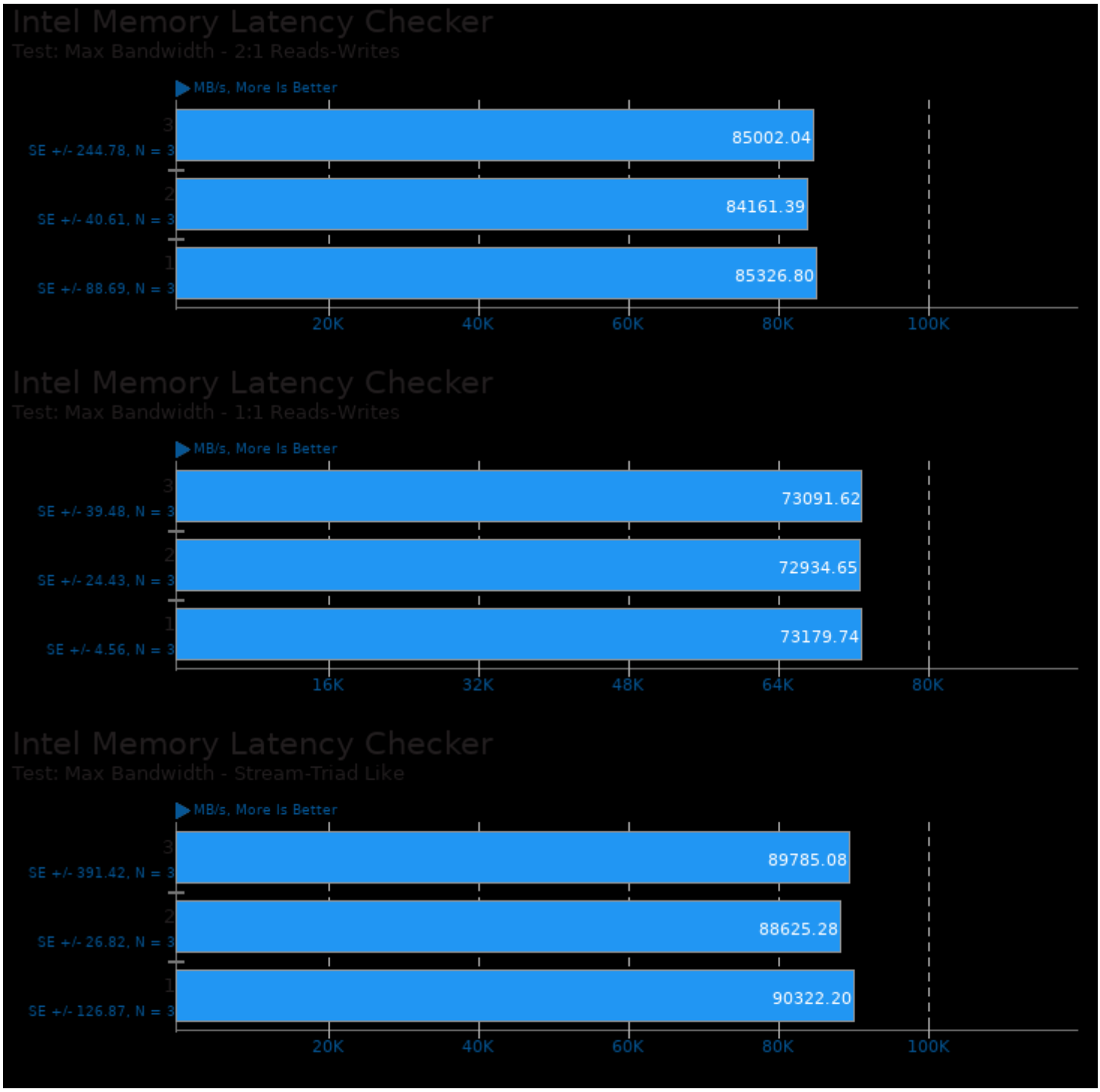
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Intel Memory Latency Checker - P.I.B - 2:1 Reads-Writes (MB/s)	**84684**	**85290**	84935
Normalized	99.29%	100%	99.58%
Standard Deviation	0.7%	0.2%	0.2%
Intel Memory Latency Checker - P.I.B - 1:1 Reads-Writes (MB/s)	**72998**	**73169**	73080
Normalized	99.77%	100%	99.88%
Standard Deviation	0.2%	0.1%	0%
Intel Memory Latency Checker - P.I.B - Stream-Triad Like (MB/s)	**80099**	**80543**	80264
Normalized	99.45%	100%	99.65%
Standard Deviation	0.6%	0.2%	0.2%

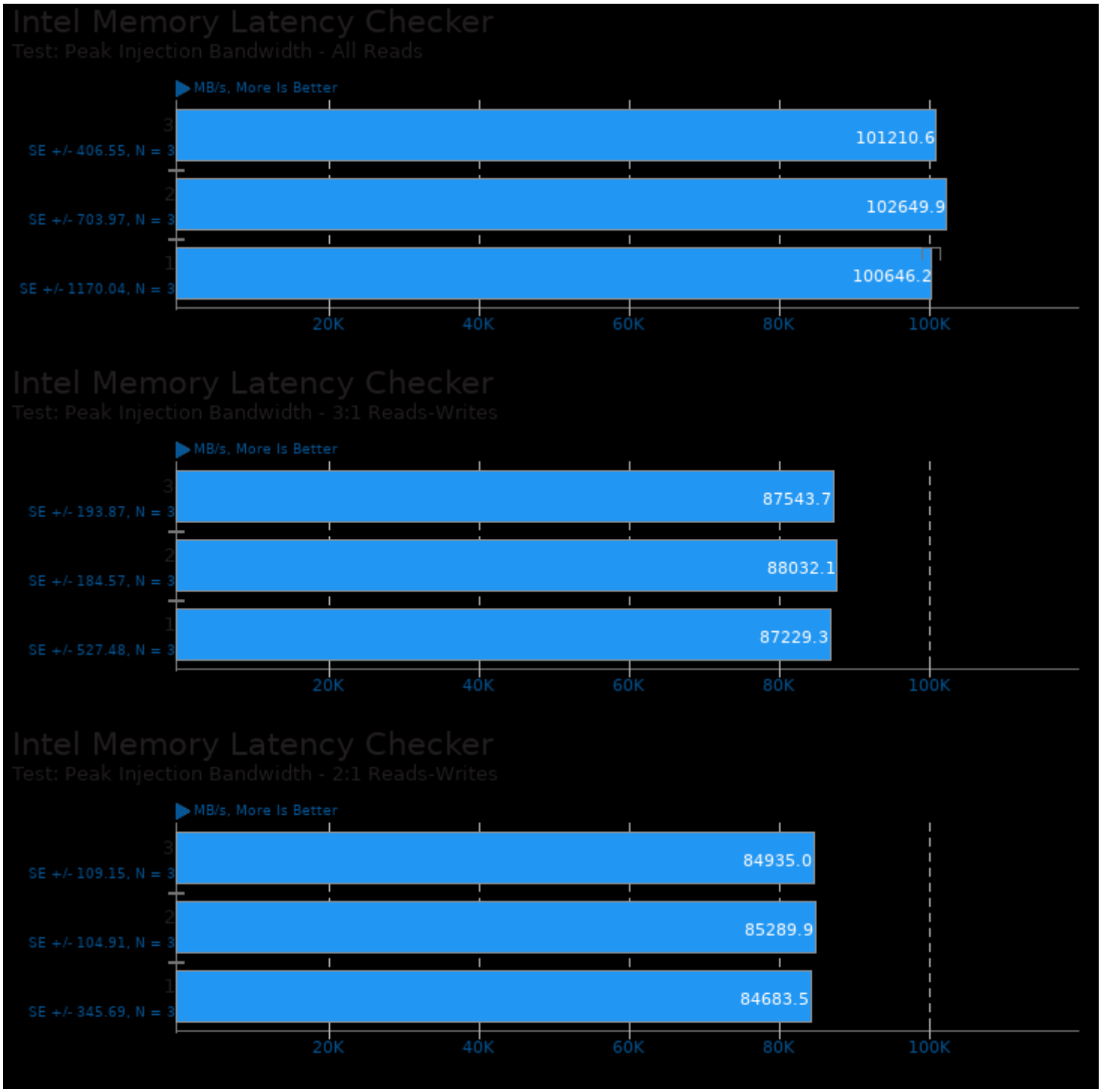
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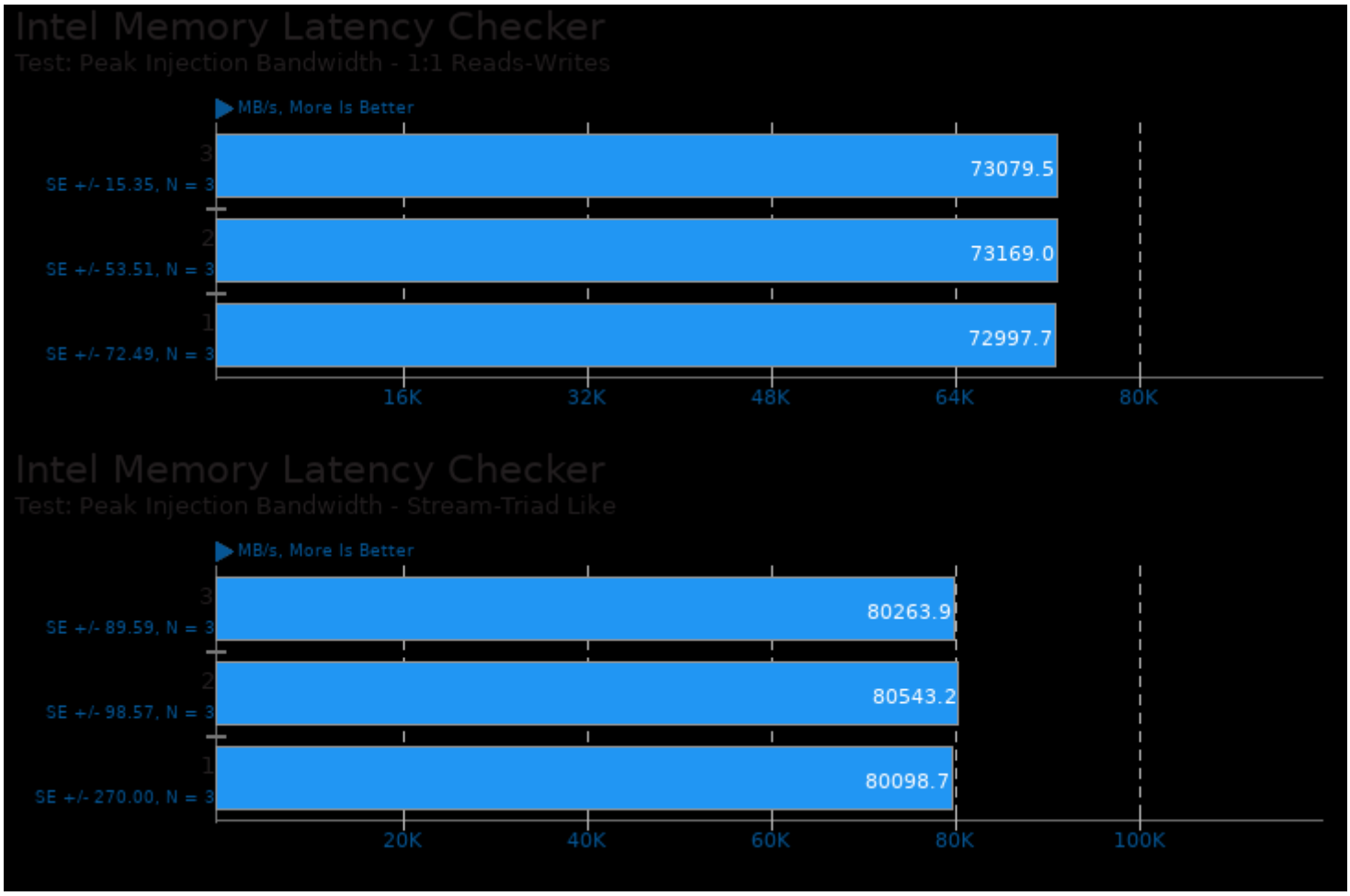
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