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ethr update fix

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (4006 BIOS) and NVIDIA GeForce RTX 3060 Ti 8GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 42% of the tests.

Based on the geometric mean of all complete results, the fastest (D) was 1.009x the speed of the slowest (C). A was 0.995x the speed of D, B was 0.997x the speed of A, C was 0.998x the speed of B.

The results with the greatest spread from best to worst included:

Ethr (Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 4) at 1.056x
Ethr (Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 1) at 1.051x
Ethr (Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 2) at 1.049x
Ethr (Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 64) at 1.039x
Ethr (Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 2) at 1.037x
Ethr (Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 16) at 1.029x
Ethr (Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 2) at 1.028x
Ethr (Server Address: localhost - Protocol: UDP - Test: Bandwidth - Threads: 1) at 1.026x
Ethr (Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 32) at 1.024x

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Ethr (Server Address: localhost - Protocol: TCP - Test: Bandwidth - Threads: 32) at 1.023x.

Test Systems:

A

B

C

D

Processor: AMD Ryzen 9 5950X 16-Core @ 5.08GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (WI-FI) (4006 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus, Graphics: NVIDIA GeForce RTX 3060 Ti 8GB, Audio: NVIDIA Device 228b, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.04, Kernel: 5.13.0-48-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, Display Driver: NVIDIA 515.48.07, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.7.89, Vulkan: 1.3.205, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa201016
Security Notes: itlb_multihit: Not affected + 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D
Ethr - TCP - Latency - 1 (us)	14.826	14.749	**15.227**	**14.484**
Normalized	97.69%	98.2%	95.12%	100%
Standard Deviation	3.6%	4.5%	1.9%	5.8%
Ethr - TCP - Latency - 2 (us)	**15.086**	**14.381**	14.392	15.035
Normalized	95.33%	100%	99.92%	95.65%
Standard Deviation	2%	5.5%	4.7%	1.3%
Ethr - TCP - Latency - 4 (us)	**14.993**	14.757	14.715	**14.201**
Normalized	94.72%	96.23%	96.51%	100%
Standard Deviation	1.4%	5.1%	5.2%	5.4%
Ethr - TCP - Latency - 8 (us)	14.720	**14.914**	**14.677**	14.704
Normalized	99.71%	98.41%	100%	99.82%
Standard Deviation	4.1%	2.1%	4.8%	5.5%
Ethr - TCP - Latency - 16 (us)	14.836	14.769	**14.953**	**14.530**
Normalized	97.94%	98.38%	97.17%	100%
Standard Deviation	1.5%	2.3%	2.1%	5.2%
Ethr - TCP - Latency - 32 (us)	14.632	**14.331**	**14.673**	14.435

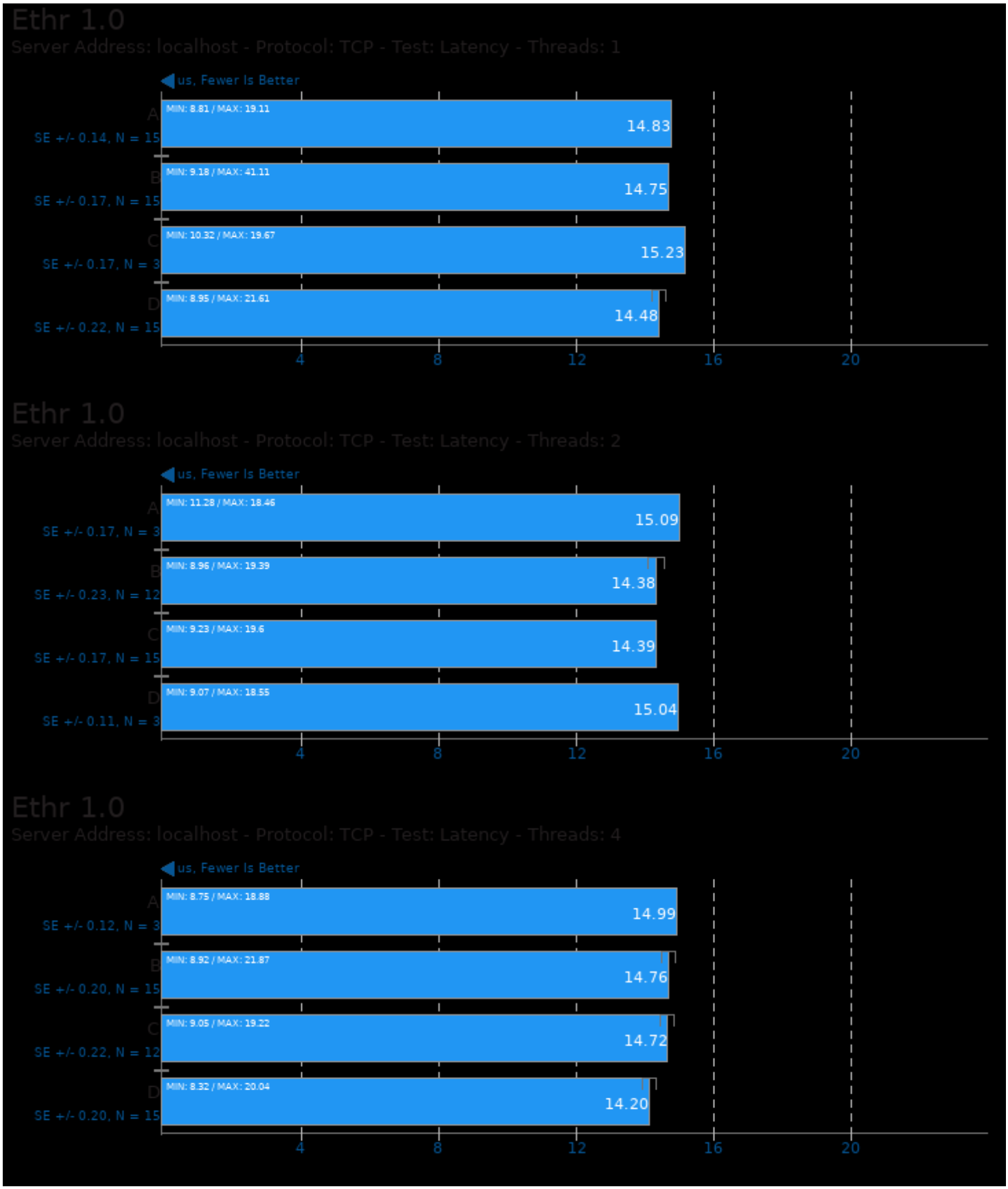
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Normalized	97.94%	100%	97.67%	99.28%
Standard Deviation	5.4%	4%	2.5%	5.2%
Ethr - TCP - Latency - 64 (us)	**14.236**	14.746	**14.787**	14.420
Normalized	100%	96.54%	96.27%	98.72%
Standard Deviation	2.4%	3.5%	2.1%	3.3%
Ethr - TCP - Bandwidth - 1 (Gbits/sec)	36.21	36.13	**35.94**	**36.48**
Normalized	99.26%	99.04%	98.52%	100%
Standard Deviation	0.7%	1.5%	2.2%	2.2%
Ethr - TCP - Bandwidth - 2 (Gbits/sec)	68.80	**69.11**	**67.25**	67.64
Normalized	99.55%	100%	97.31%	97.87%
Standard Deviation	0.6%	0.9%	2.3%	2.3%
Ethr - TCP - Bandwidth - 4 (Gbits/sec)	108.73	**107.86**	108.55	**109.71**
Normalized	99.11%	98.31%	98.94%	100%
Standard Deviation	0.6%	0.4%	2.2%	1%
Ethr - TCP - Bandwidth - 8 (Gbits/sec)	143.42	**141.41**	143.23	**143.73**
Normalized	99.78%	98.39%	99.65%	100%
Standard Deviation	0.5%	2.1%	0.5%	0.8%
Ethr - UDP - Bandwidth - 1	345376	**341454**	344711	**350376**
Normalized	98.57%	97.45%	98.38%	100%
Standard Deviation	1.5%	1.9%	1.9%	0.3%
Ethr - UDP - Bandwidth - 2	**631805**	**609290**	622349	619934
Normalized	100%	96.44%	98.5%	98.12%
Standard Deviation	2.2%	1.5%	3.5%	1.2%
Ethr - UDP - Bandwidth - 4	**1245333**	**1234667**	1242100	1242533
Normalized	100%	99.14%	99.74%	99.78%
Standard Deviation	2.5%	0.5%	2.3%	1.5%
Ethr - UDP - Bandwidth - 8	1669467	1676133	**1678267**	**1668533**
Normalized	99.48%	99.87%	100%	99.42%
Standard Deviation	0.3%	0.6%	0.8%	0.8%
Ethr - TCP - Bandwidth - 16	**81.89**	82.10	**82.24**	**82.24**
Normalized	99.57%	99.83%	100%	100%
Standard Deviation	81.5%	81.5%	81.5%	81.6%
Ethr - TCP - Bandwidth - 32	**105.50**	103.44	**103.14**	104.35
Normalized	100%	98.05%	97.76%	98.91%
Standard Deviation	0.2%	0.2%	0.2%	0.8%
Ethr - TCP - Bandwidth - 64	83.32	**83.09**	83.19	**83.47**
Normalized	99.82%	99.54%	99.66%	100%
Standard Deviation	0.6%	0.4%	0.2%	0.6%
Ethr - UDP - Bandwidth - 16 (Packets/sec)	**1000531**	1006771		**1007151**
Normalized	99.34%	99.96%		100%
Standard Deviation	81.5%	81.5%		81.5%
Ethr - UDP - Bandwidth - 32 (Packets/sec)	**1999067**	1994400		**1994267**
Normalized	100%	99.77%		99.76%
Standard Deviation	0.4%	0.7%		0.4%
Ethr - UDP - Bandwidth - 64 (Packets/sec)	**2019200**	2031067		**2033733**
Normalized	99.29%	99.87%		100%
Standard Deviation	0.3%	0.7%		0.8%
Ethr - TCP - Connections/s - 1 (Connections/sec)	505	505		505

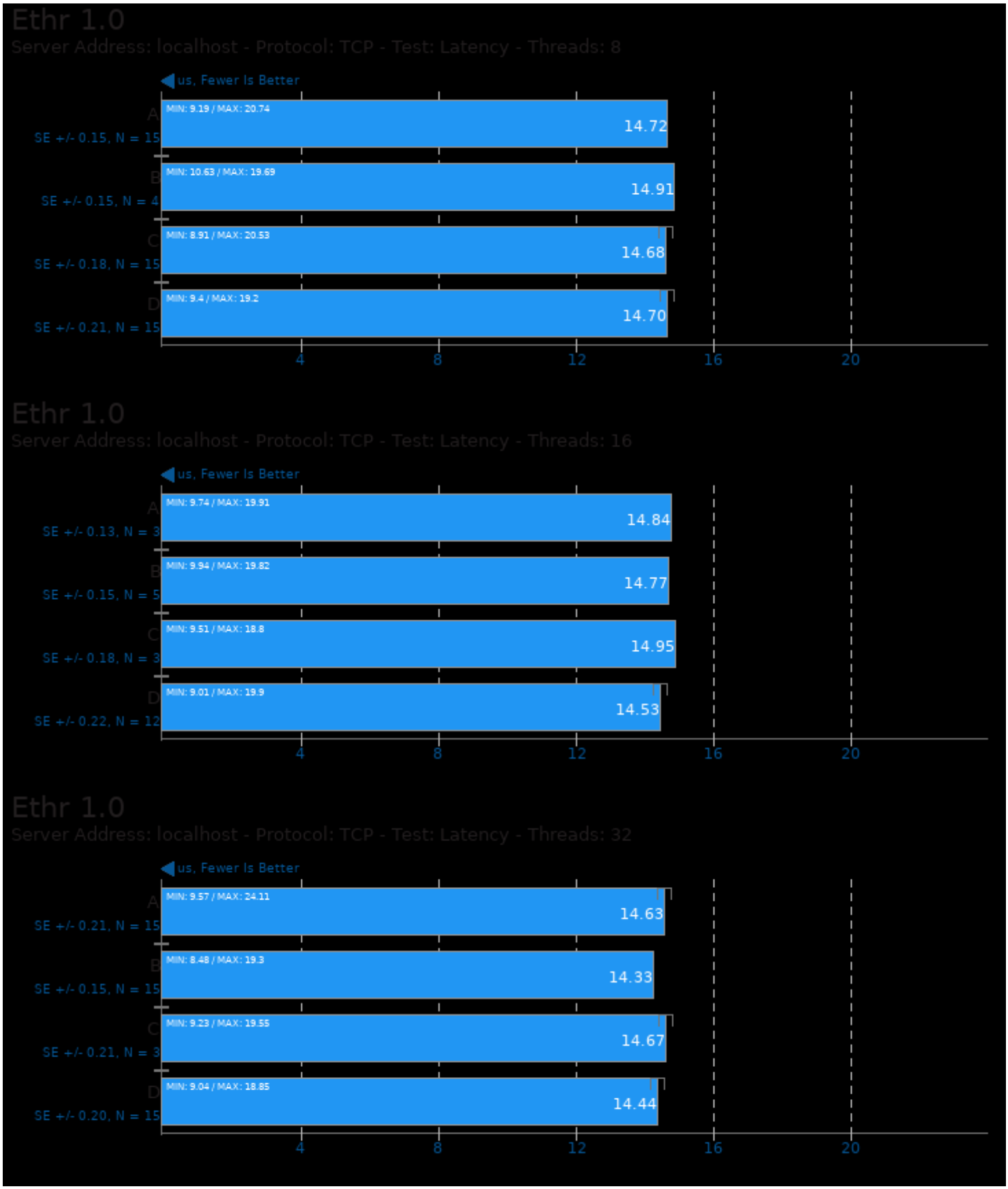
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Ethr - TCP - Connections/s - 2 (Connections/sec)	505	505	505
Ethr - TCP - Connections/s - 4 (Connections/sec)	506	506	506
Ethr - TCP - Connections/s - 8 (Connections/sec)	507	507	507
Ethr - TCP - Connections/s - 16 (Connections/sec)	508	508	508
Ethr - TCP - Connections/s - 32 (Connections/sec)	508	508	508
Ethr - TCP - Connections/s - 64 (Connections/sec)	508	508	508
Standard Deviation			0.1%

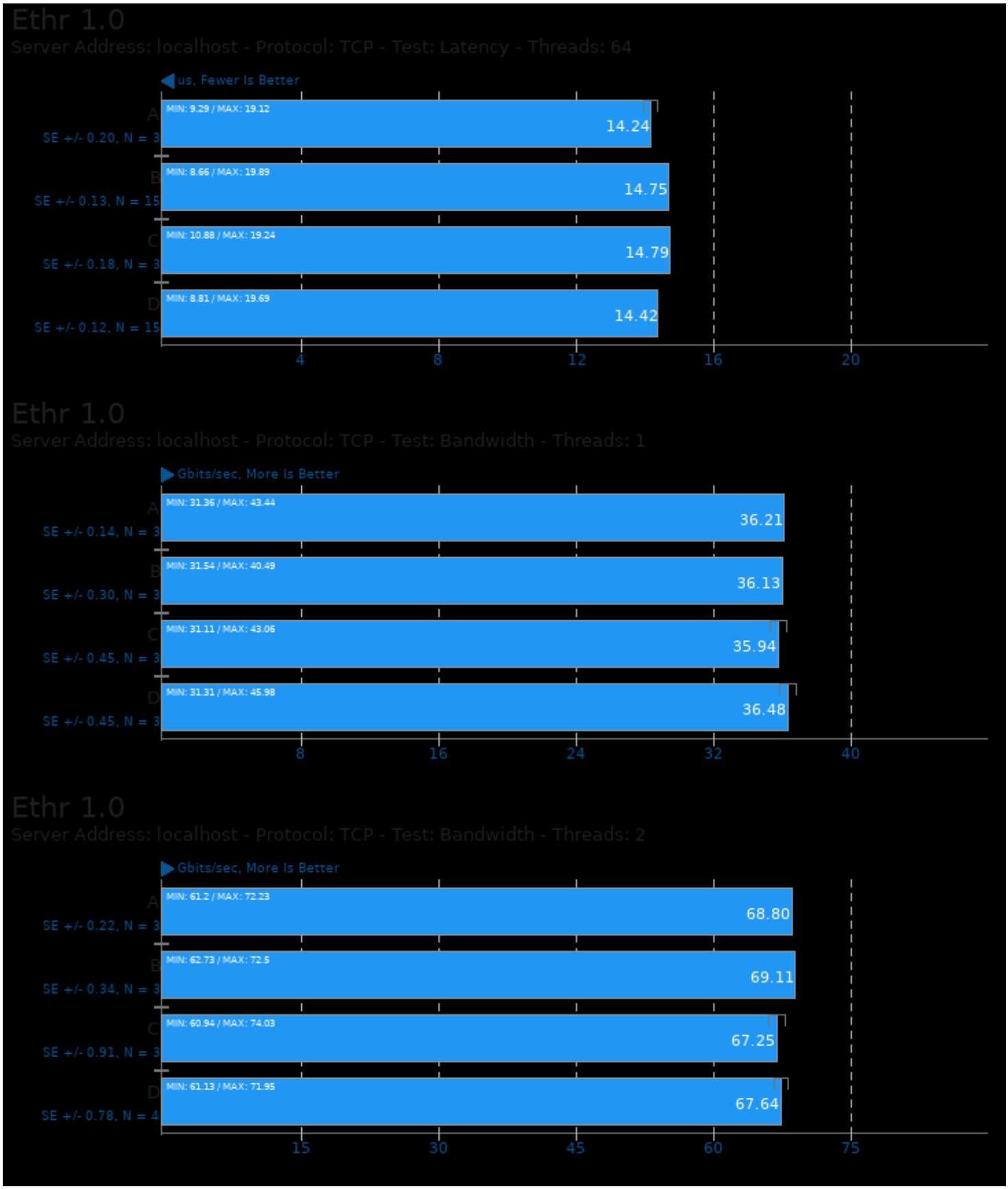
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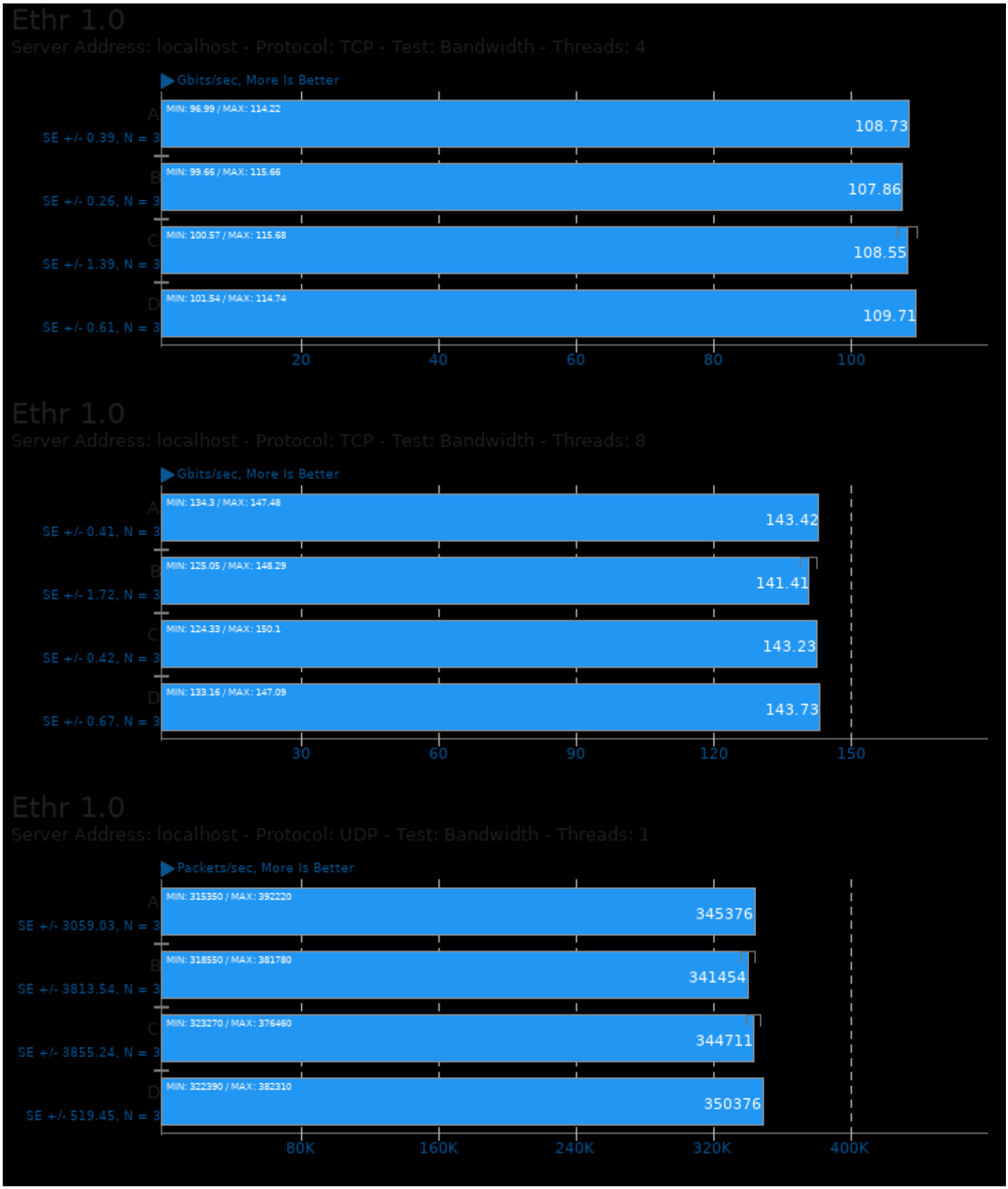
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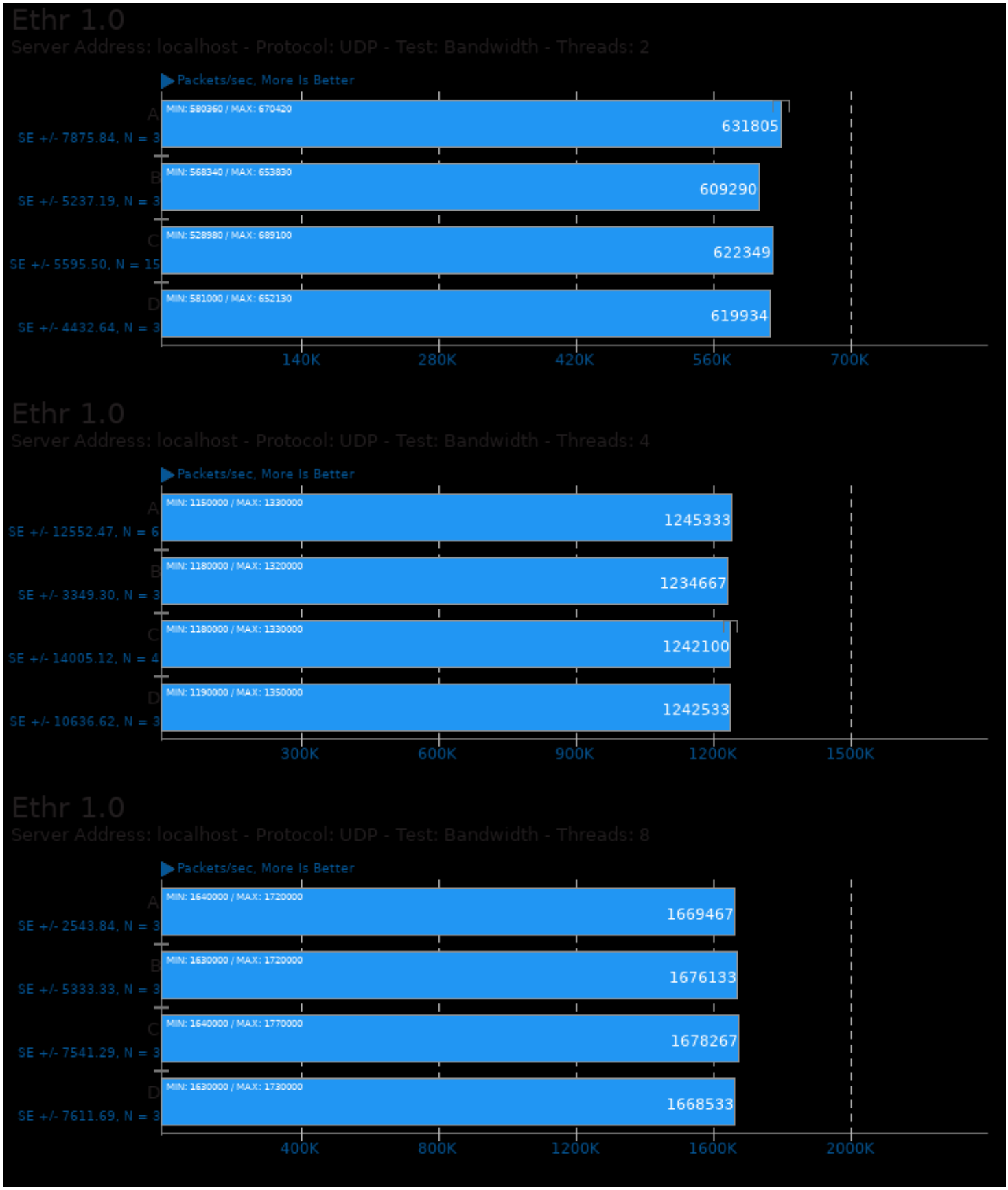
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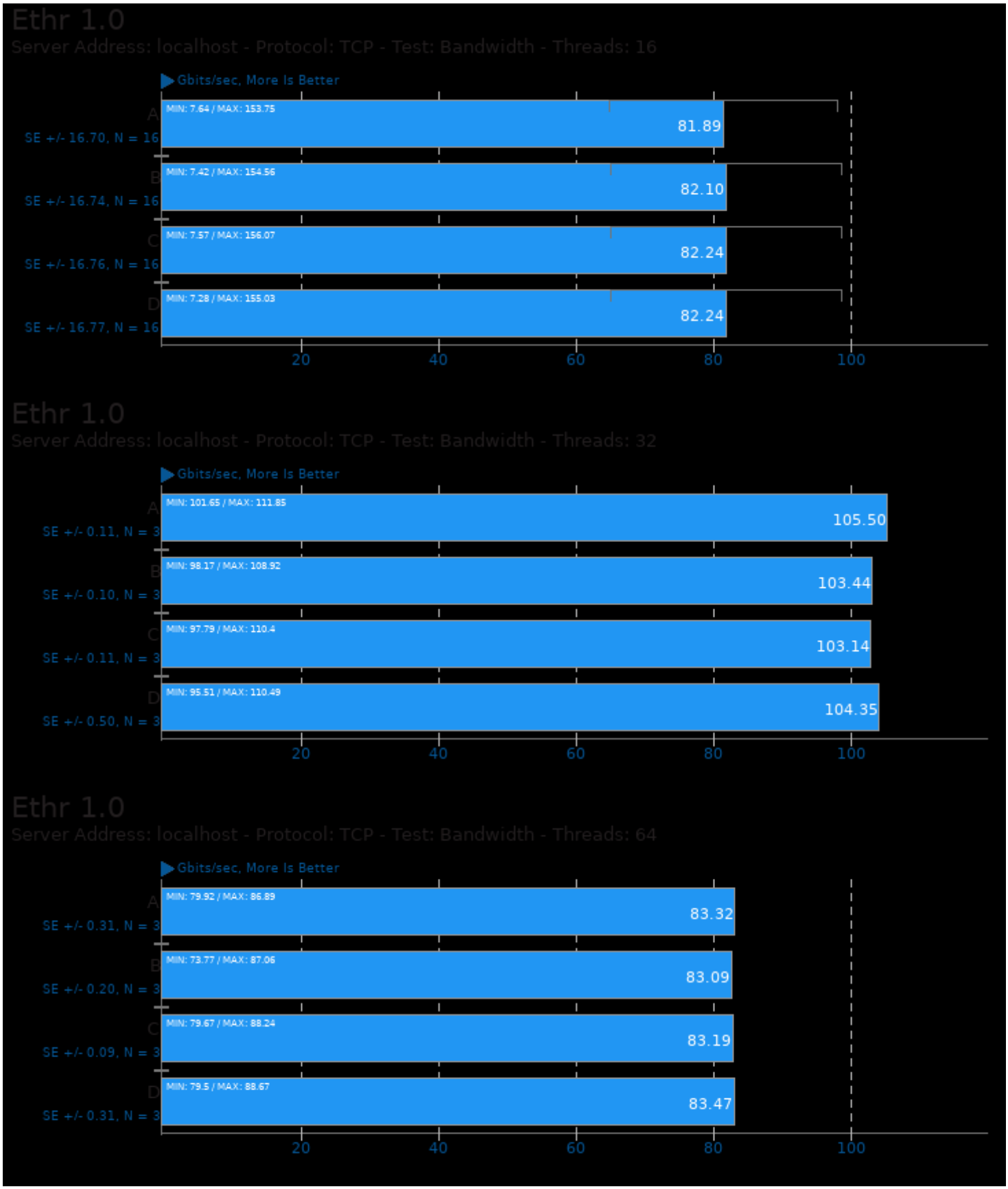
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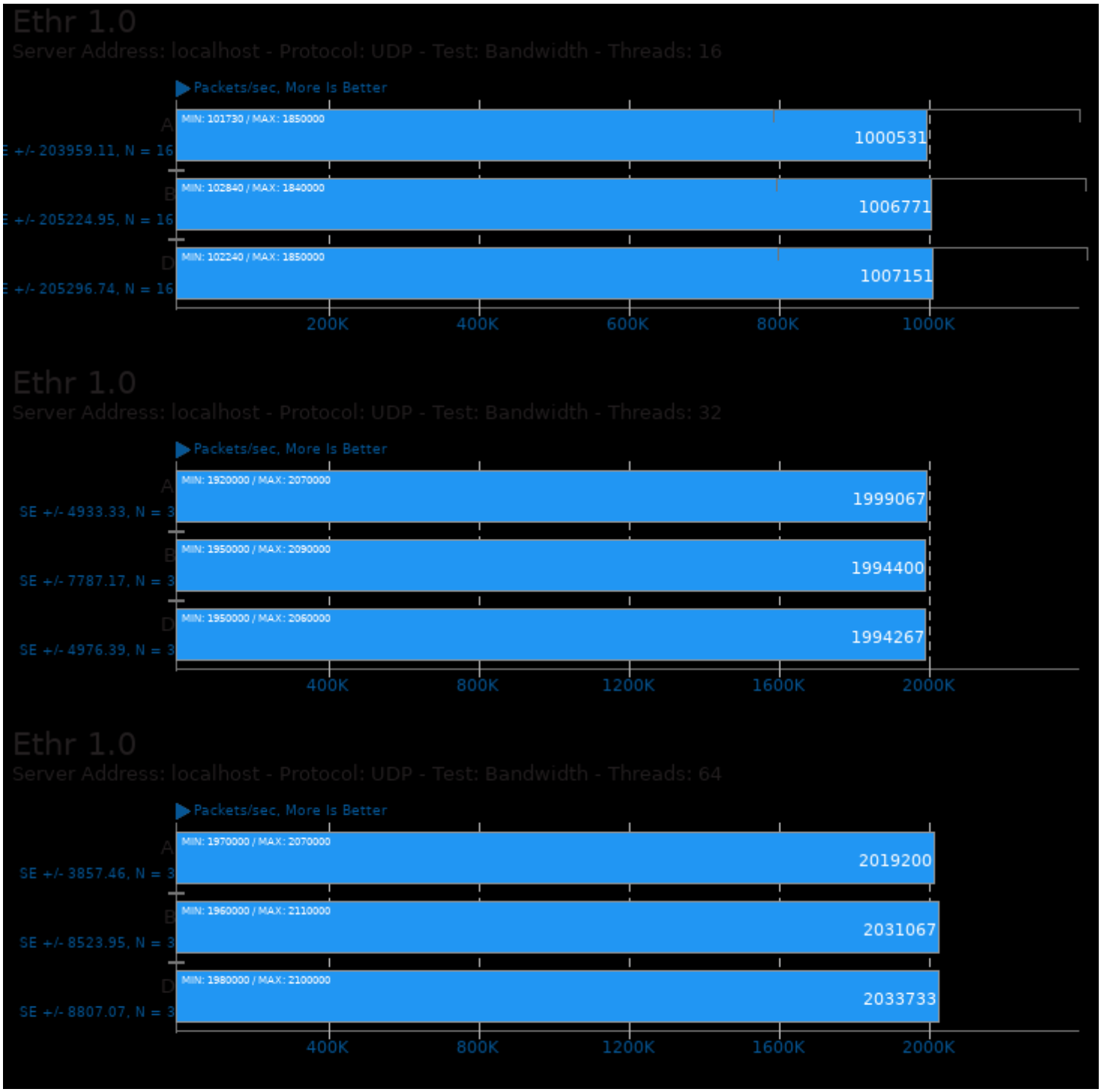
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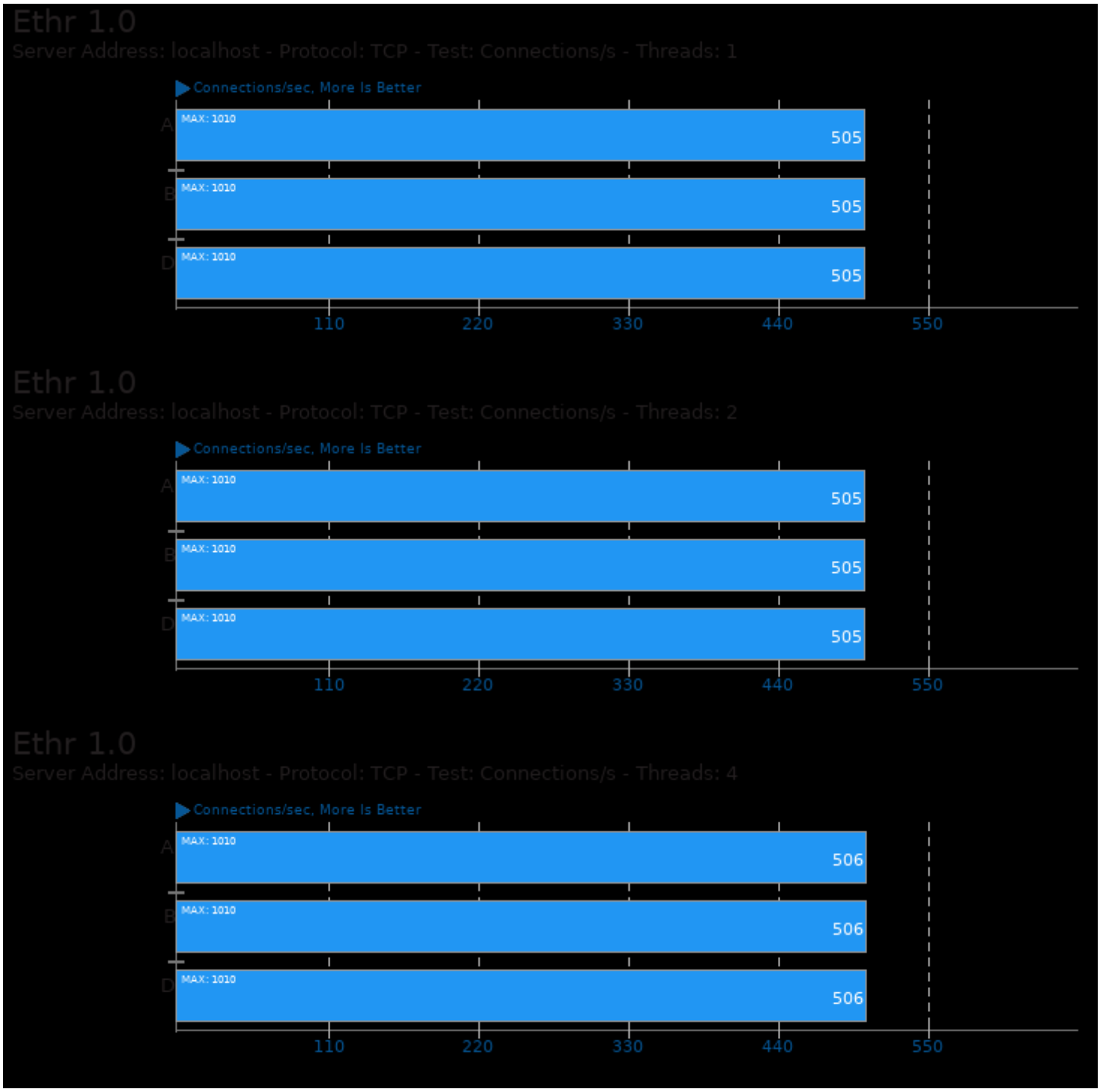
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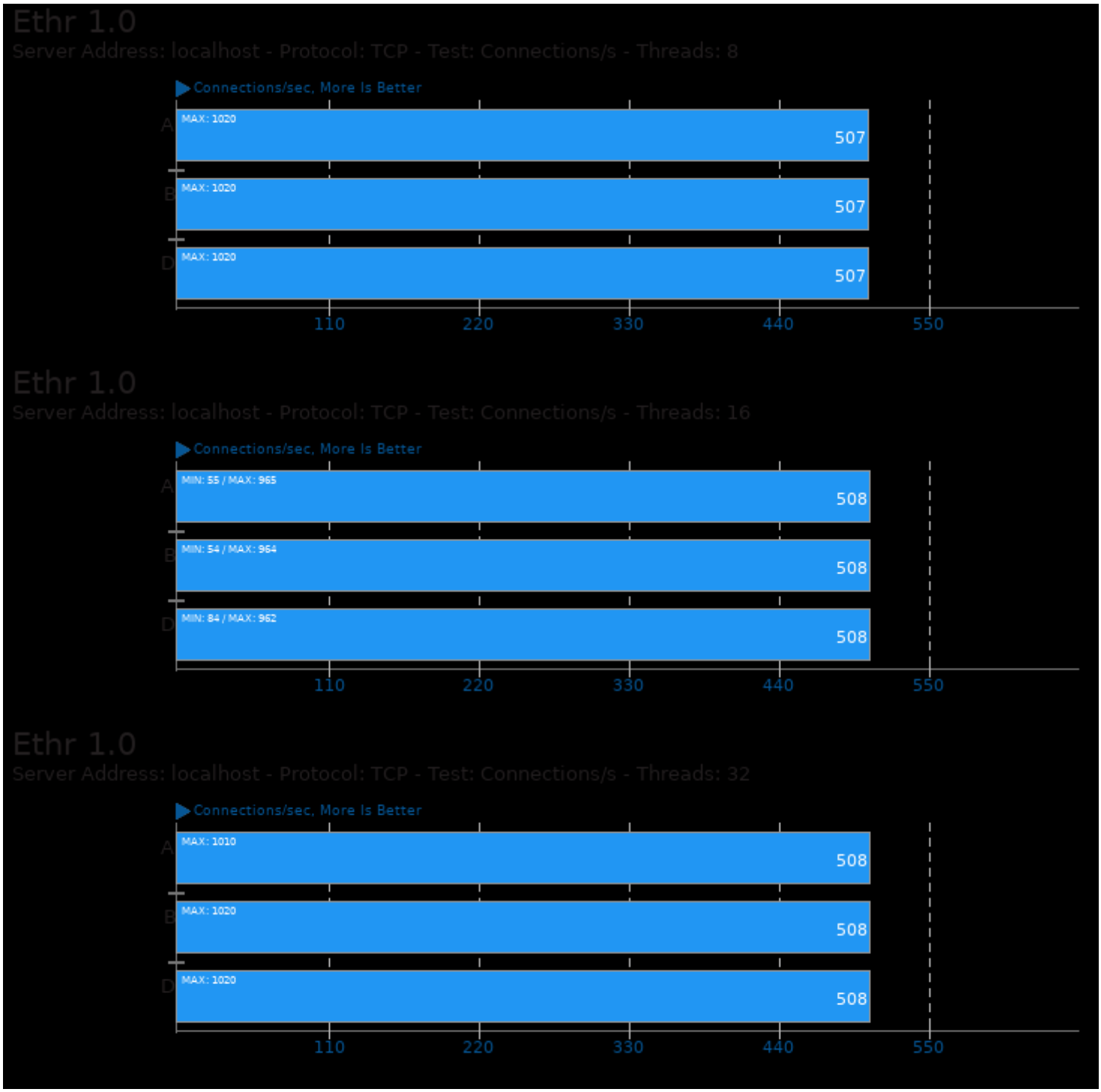
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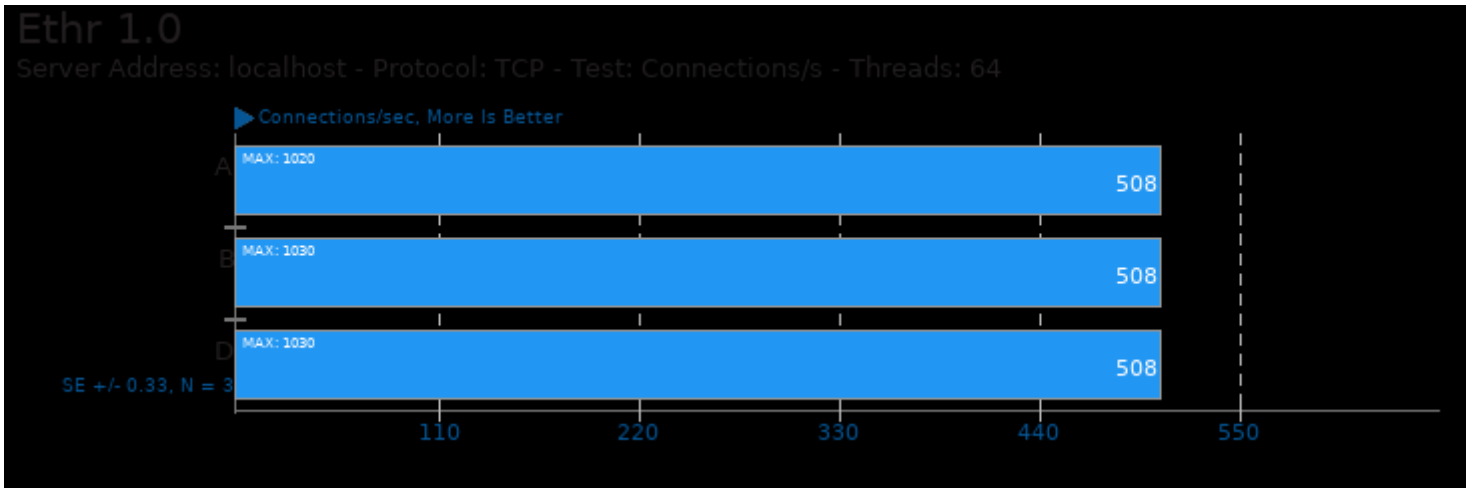
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