

www.phoronix-test-suite.com

etl

AMD Ryzen 9 3900XT 12-Core testing with a MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.B3 BIOS) and AMD Radeon RX 56/64 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

Test Systems:

A

B

C

D

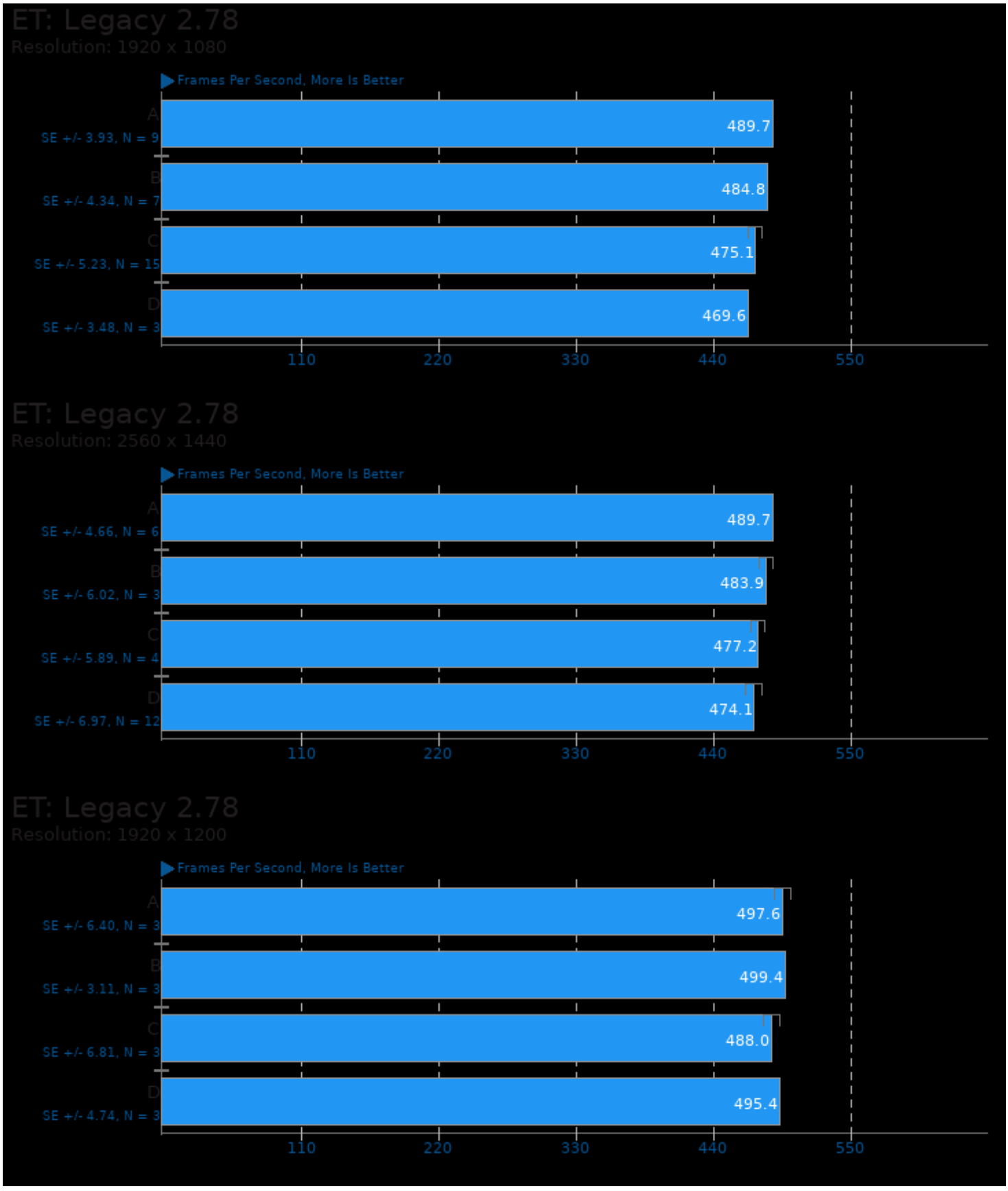
Processor: AMD Ryzen 9 3900XT 12-Core @ 3.80GHz (12 Cores / 24 Threads), Motherboard: MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.B3 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 500GB Seagate FireCuda 520 SSD ZP500GM30002, Graphics: AMD Radeon RX 56/64 8GB (1630/945MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: ASUS MG28U, Network: Realtek Device 2600 + Realtek Device 3000 + Intel Wi-Fi 6 AX200

etl

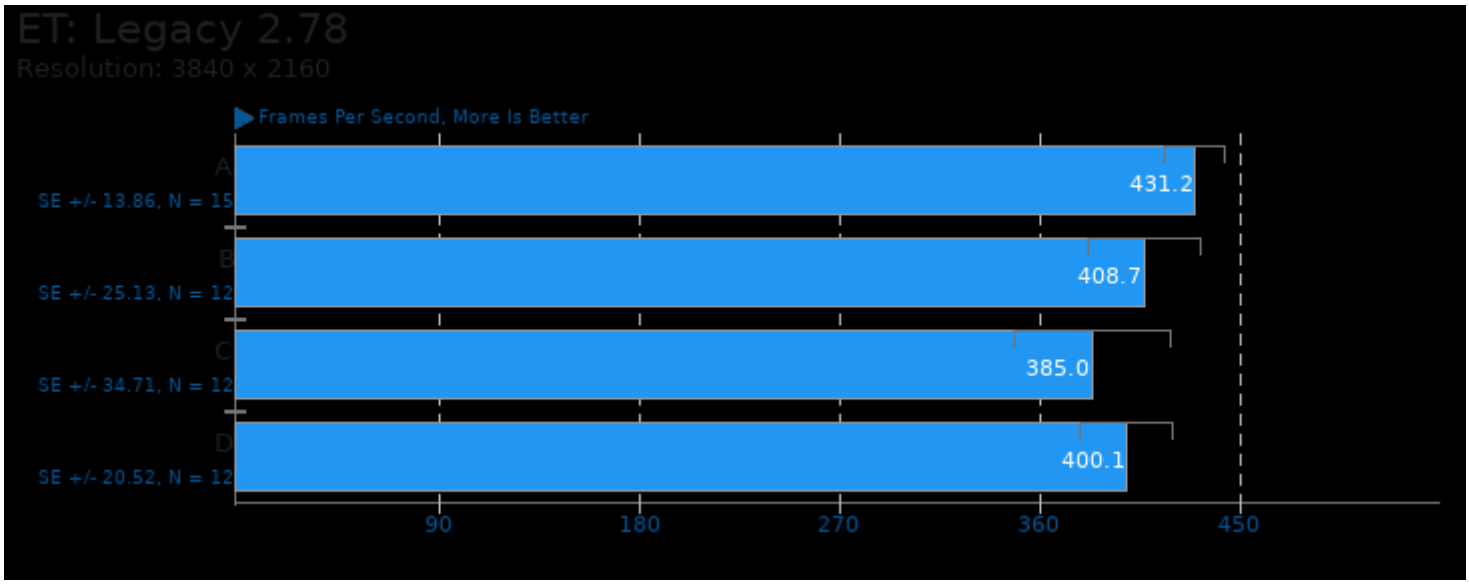
OS: Ubuntu 20.10, Kernel: 5.11.0-rc1-phx (x86_64) 20201228, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8701021
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 256 MB
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 Full AMD retpoline IBPB: conditional STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D
ET: Legacy - 1920 x 1080 (FPS)	**489.7**	484.8	475.1	**469.6**
Normalized	100%	99%	97.02%	95.9%
Standard Deviation	2.4%	2.4%	4.3%	1.3%
ET: Legacy - 2560 x 1440 (FPS)	**489.7**	483.9	477.2	**474.1**
Normalized	100%	98.82%	97.45%	96.81%
Standard Deviation	2.3%	2.2%	2.5%	5.1%
ET: Legacy - 1920 x 1200 (FPS)	497.6	**499.4**	**488.0**	495.4
Normalized	99.64%	100%	97.72%	99.2%
Standard Deviation	2.2%	1.1%	2.4%	1.7%
ET: Legacy - 3840 x 2160 (FPS)	**431.2**	408.7	**385.0**	400.1
Normalized	100%	94.78%	89.29%	92.79%
Standard Deviation	12.4%	21.3%	31.2%	17.8%


ET: Legacy 2.78
Resolution: 1920 x 1080
Frames Per Second, More Is Better
A
SE +/- 3.93, N = 9
489.7
B
SE +/- 4.34, N = 7
484.8
C
SE +/- 5.23, N = 15
475.1
D
SE +/- 3.48, N = 3
469.6
110
220
330
440
550
ET: Legacy 2.78
Resolution: 2560 x 1440
Frames Per Second, More Is Better
A
SE +/- 4.66, N = 6
489.7
B
SE +/- 6.02, N = 3
483.9
C
SE +/- 5.89, N = 4
477.2
D
SE +/- 6.97, N = 12
474.1
110
220
330
440
550
ET: Legacy 2.78
Resolution: 1920 x 1200
Frames Per Second, More Is Better
A
SE +/- 6.40, N = 3
497.6
B
SE +/- 3.11, N = 3
499.4
C
SE +/- 6.81, N = 3
488.0
D
SE +/- 4.74, N = 3
495.4
110
220
330
440
550

etl



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:03.