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Intel Core i7-10700T testing with a Logic Supply RXM-181 (Z01-0002A026 BIOS) and Intel UHD 630 CML GT2 3GB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 71% of the tests.

Based on the geometric mean of all complete results, the fastest (B) was 1.007x the speed of the slowest (C). A was 1x the speed of B and C was 0.994x the speed of A.

Test Systems:

A

B

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C

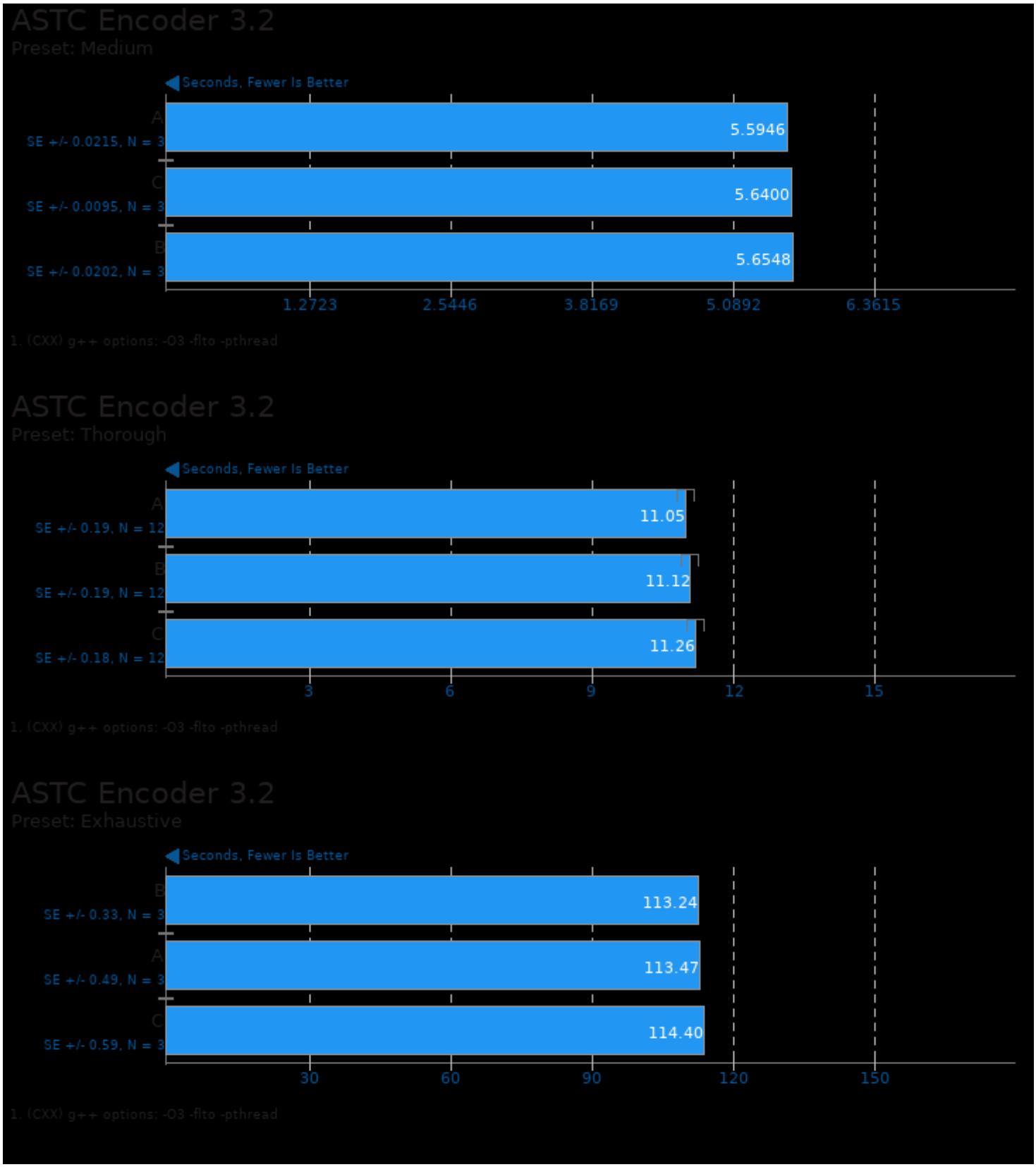
Processor: Intel Core i7-10700T @ 4.50GHz (8 Cores / 16 Threads), Motherboard: Logic Supply RXM-181 (Z01-0002A026 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: 256GB TS256GMTS800, Graphics: Intel UHD 630 CML GT2 3GB (1200MHz), Audio: Realtek ALC233, Monitor: DELL P2415Q, Network: Intel I219-LM + Intel I210

OS: Ubuntu 21.04, Kernel: 5.11.0-34-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.0.1, Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

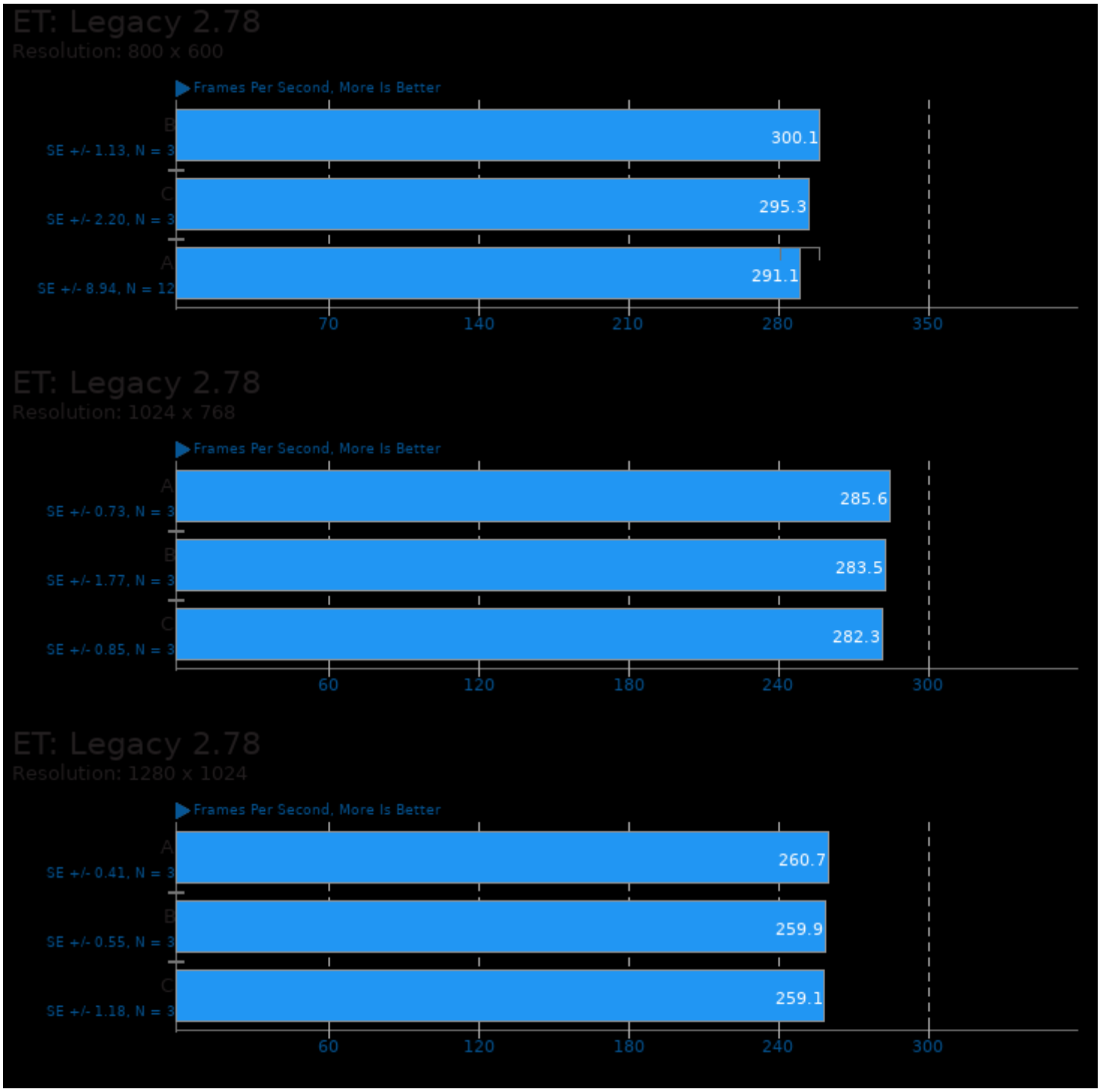
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/usr, hsa --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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xec - Thermald 2.4.3
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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: Not affected

	A	B	C
ASTC Encoder - Medium (sec)	**5.5946**	**5.6548**	5.6400
Normalized	100%	98.94%	99.2%
Standard Deviation	0.7%	0.6%	0.3%
ASTC Encoder - Thorough (sec)	**11.0506**	11.1207	**11.2557**
Normalized	100%	99.37%	98.18%
Standard Deviation	6%	6%	5.6%
ASTC Encoder - Exhaustive (sec)	113.4725	**113.2416**	**114.3950**
Normalized	99.8%	100%	98.99%
Standard Deviation	0.7%	0.5%	0.9%
ET: Legacy - 800 x 600 (FPS)	**291.1**	**300.1**	295.3
Normalized	97%	100%	98.4%
Standard Deviation	10.6%	0.7%	1.3%
ET: Legacy - 1024 x 768 (FPS)	**285.6**	283.5	**282.3**
Normalized	100%	99.26%	98.84%
Standard Deviation	0.4%	1.1%	0.5%
ET: Legacy - 1280 x 1024 (FPS)	**260.7**	259.9	**259.1**
Normalized	100%	99.69%	99.39%
Standard Deviation	0.3%	0.4%	0.8%
ET: Legacy - 1920 x 1080 (FPS)	**192.7**	192.1	**191.3**
Normalized	100%	99.69%	99.27%
Standard Deviation	0.4%	0.2%	0.5%

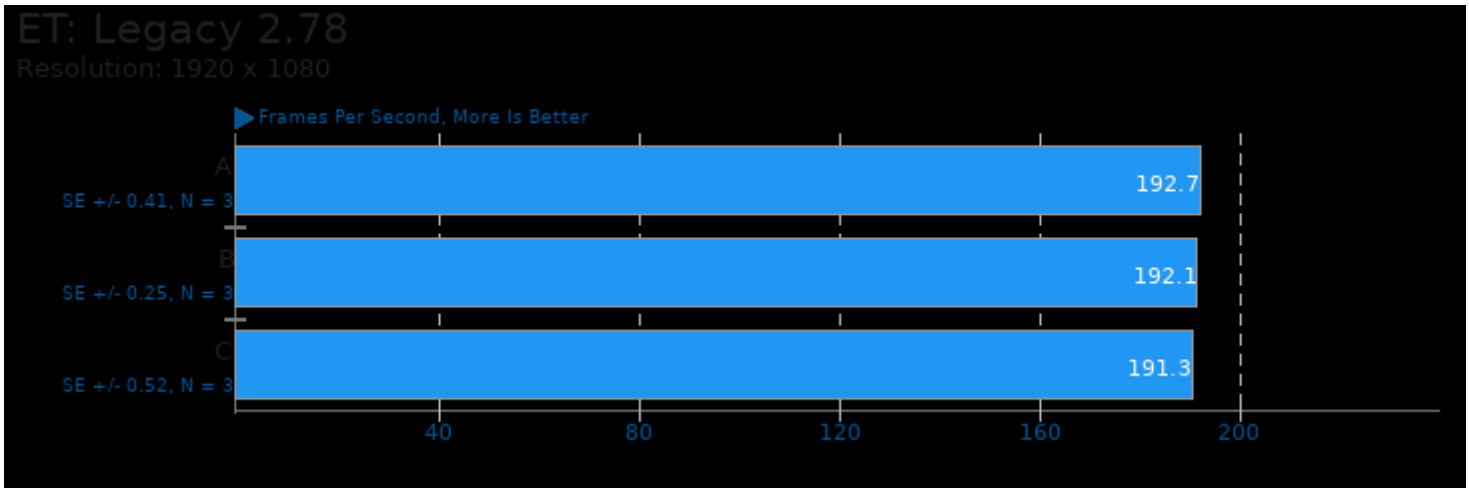
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This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:18.