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scikit placebo

AMD Ryzen 7 PRO 6850U testing with a LENOVO 21CM0001US (R22ET51W 1.21 BIOS) and AMD Radeon 680M 1GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

b had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (c) was 1.007x the speed of the slowest (a). b was 0.993x the speed of c and a was 1x the speed of b.

Test Systems:

a

b

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c

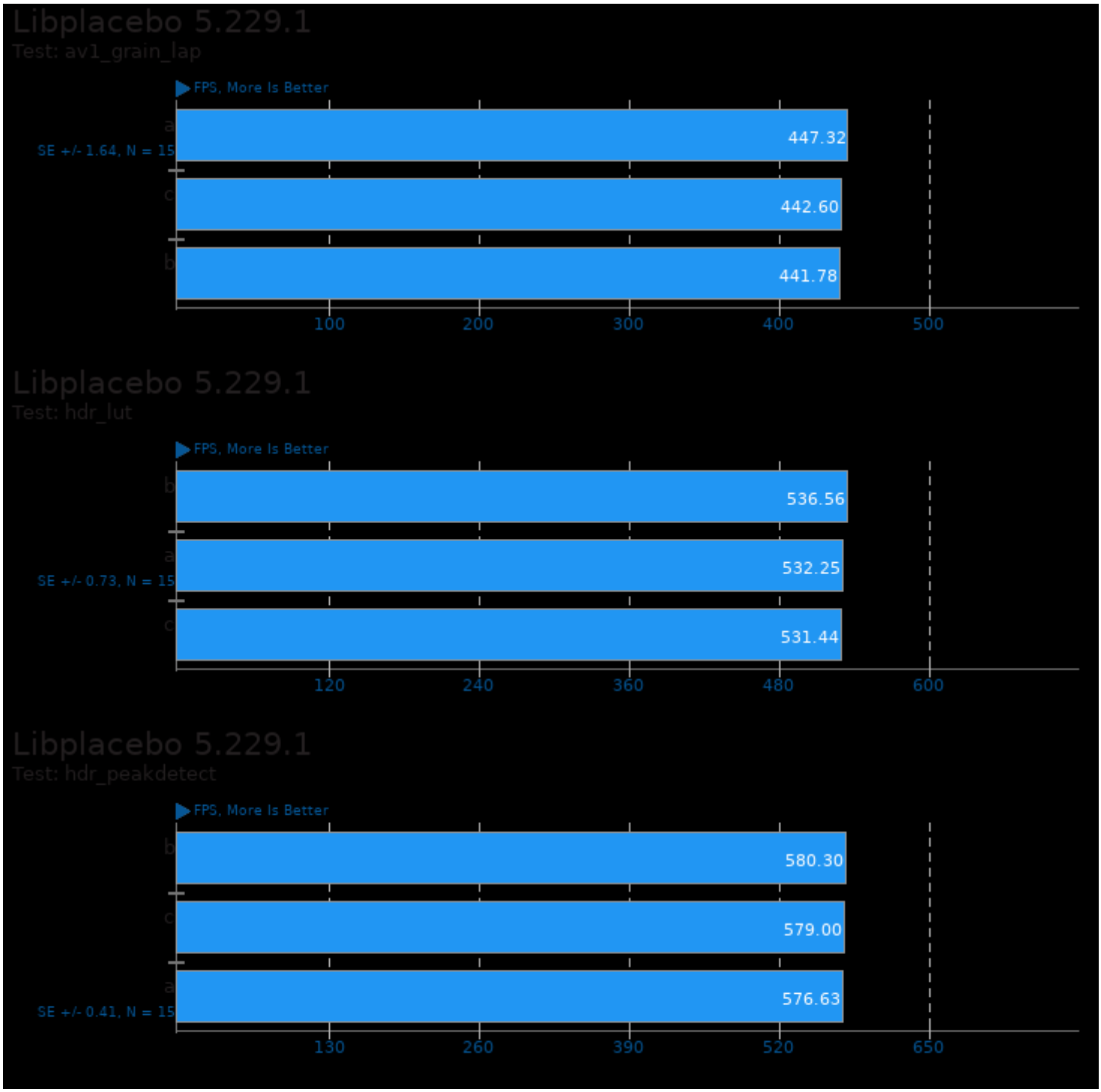
Processor: AMD Ryzen 7 PRO 6850U @ 4.77GHz (8 Cores / 16 Threads), Motherboard: LENOVO 21CM0001US (R22ET51W 1.21 BIOS), Chipset: AMD Device 14b5, Memory: 16GB, Disk: 512GB Micron MTFDKBA512TFK, Graphics: AMD Radeon 680M 1GB (2200/400MHz), Audio: AMD Rembrandt Radeon HD Audio, Network: Qualcomm QCNFA765

OS: Ubuntu 22.10, Kernel: 6.1.0-060100rc2daily20221028-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.49), Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 1920x1200

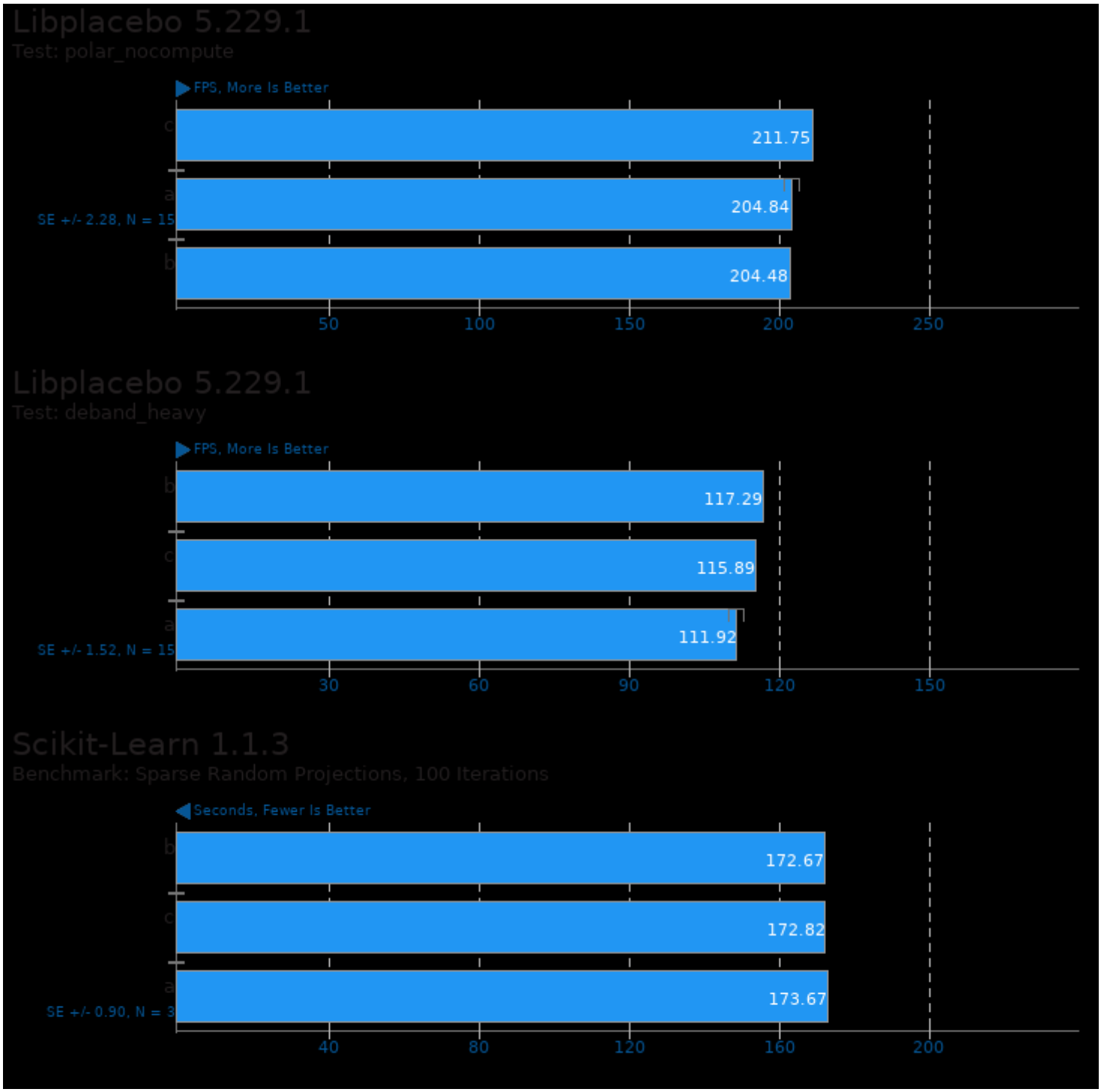
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-defaulted --enable-offload-targets=nvptx-none=/build/gcc-12-U8K4Qv/gcc-12-12.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-12-U8K4Qv/gcc-12-12.2.0/debian/tmp-gcn/usr --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-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: amd-pstate schedutil (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa404102 - ACPI Profile: balanced
Graphics Notes: BAR1 / Visible vRAM Size: 1024 MB - vBIOS Version: 113-REMBRANDT-036
Python Notes: Python 3.10.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + 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 PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	a	b	c
Libplacebo - av1_grain_lap (FPS)	**447.32**	**441.78**	442.6
Normalized	100%	98.76%	98.94%
Standard Deviation	1.4%		
Libplacebo - hdr_lut (FPS)	532.25	**536.56**	**531.44**
Normalized	99.2%	100%	99.05%
Standard Deviation	0.5%		
Libplacebo - hdr_peakdetect (FPS)	**576.63**	**580.3**	579
Normalized	99.37%	100%	99.78%
Standard Deviation	0.3%		
Libplacebo - polar_nocompute (FPS)	204.84	**204.48**	**211.75**
Normalized	96.74%	96.57%	100%
Standard Deviation	4.3%		
Libplacebo - deband_heavy (FPS)	**111.92**	**117.29**	115.89
Normalized	95.42%	100%	98.81%
Standard Deviation	5.3%		
Scikit-Learn - S.R.P.1.l (sec)	**173.674**	**172.668**	172.819
Normalized	99.42%	100%	99.91%
Standard Deviation	0.9%		
Scikit-Learn - MNIST Dataset (sec)	**106.377**	**109.536**	108.079
Normalized	100%	97.12%	98.43%
Standard Deviation	1.2%		
Scikit-Learn - TSNE MNIST Dataset (sec)	31.847	**32.601**	**31.599**
Normalized	99.22%	96.93%	100%
Standard Deviation	1.5%		

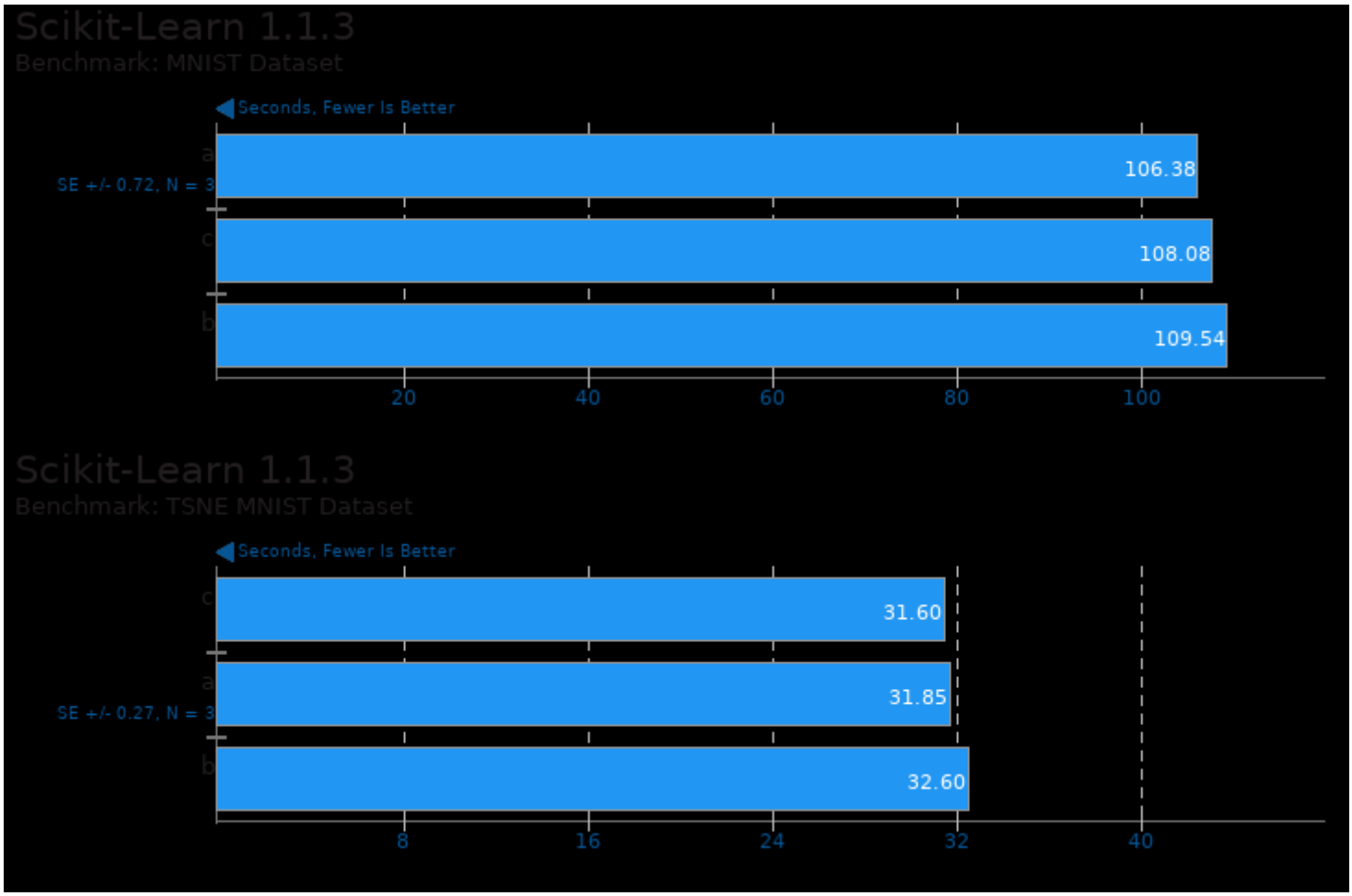
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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/libplacebo and pts/scikit-learn

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:15.