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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

# scikit placebo

## c

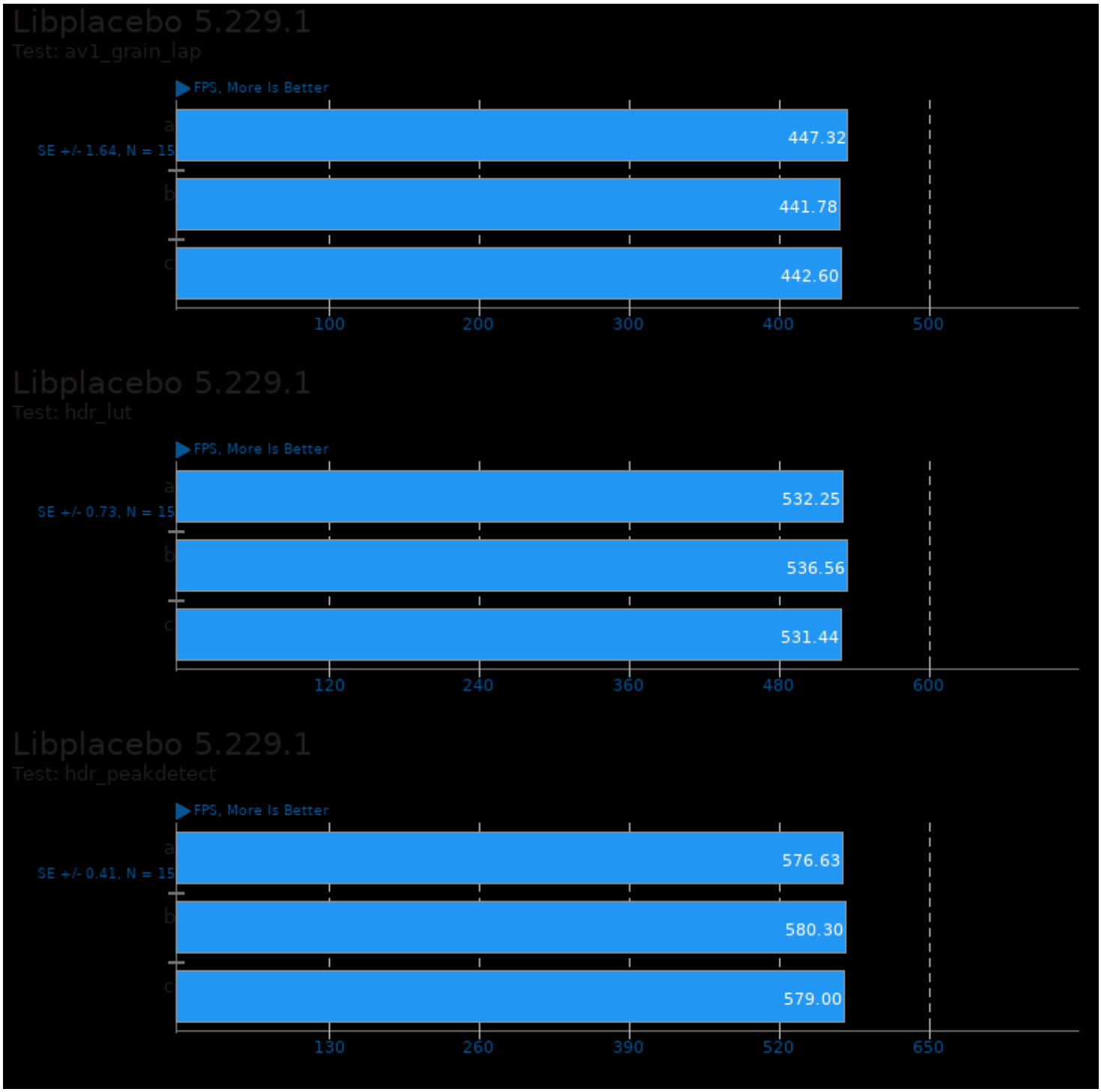
Processor: AMD Ryzen 7 PRO 6850U @ 4.77GHz (8 Cores / 16 Threads), Motherboard: LENOVO 21CM0001US (R22ET51W 1.21 BIOS), Chipset: AMD Device 14b5, Memory: 16GB, Disk: 512GB Micron MTFDKBA512TFK, Graphics: AMD Radeon 680M 1GB (2200/400MHz), Audio: AMD Rembrandt Radeon HD Audio, Network: Qualcomm QCNFA765

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

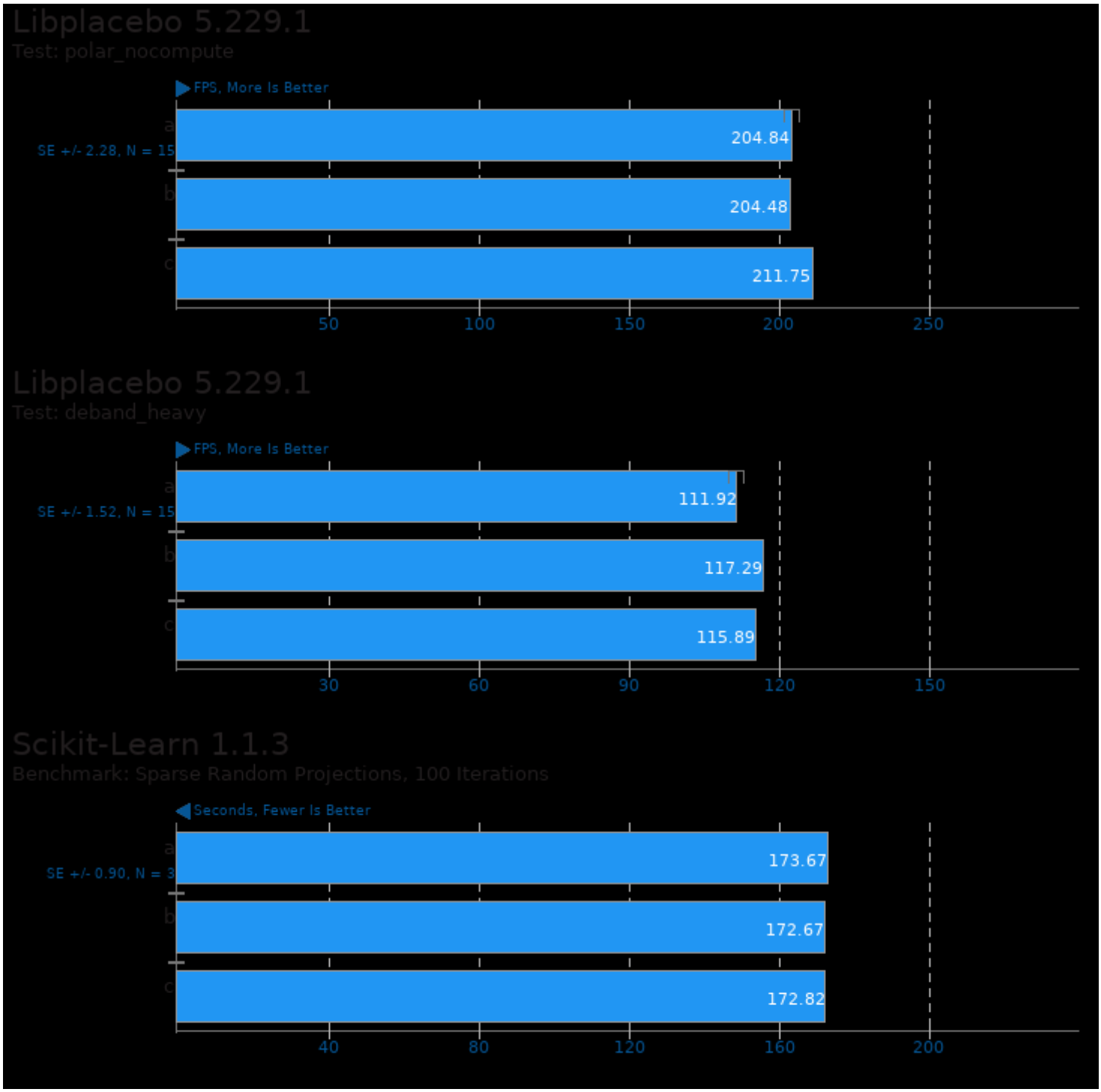
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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% | | |

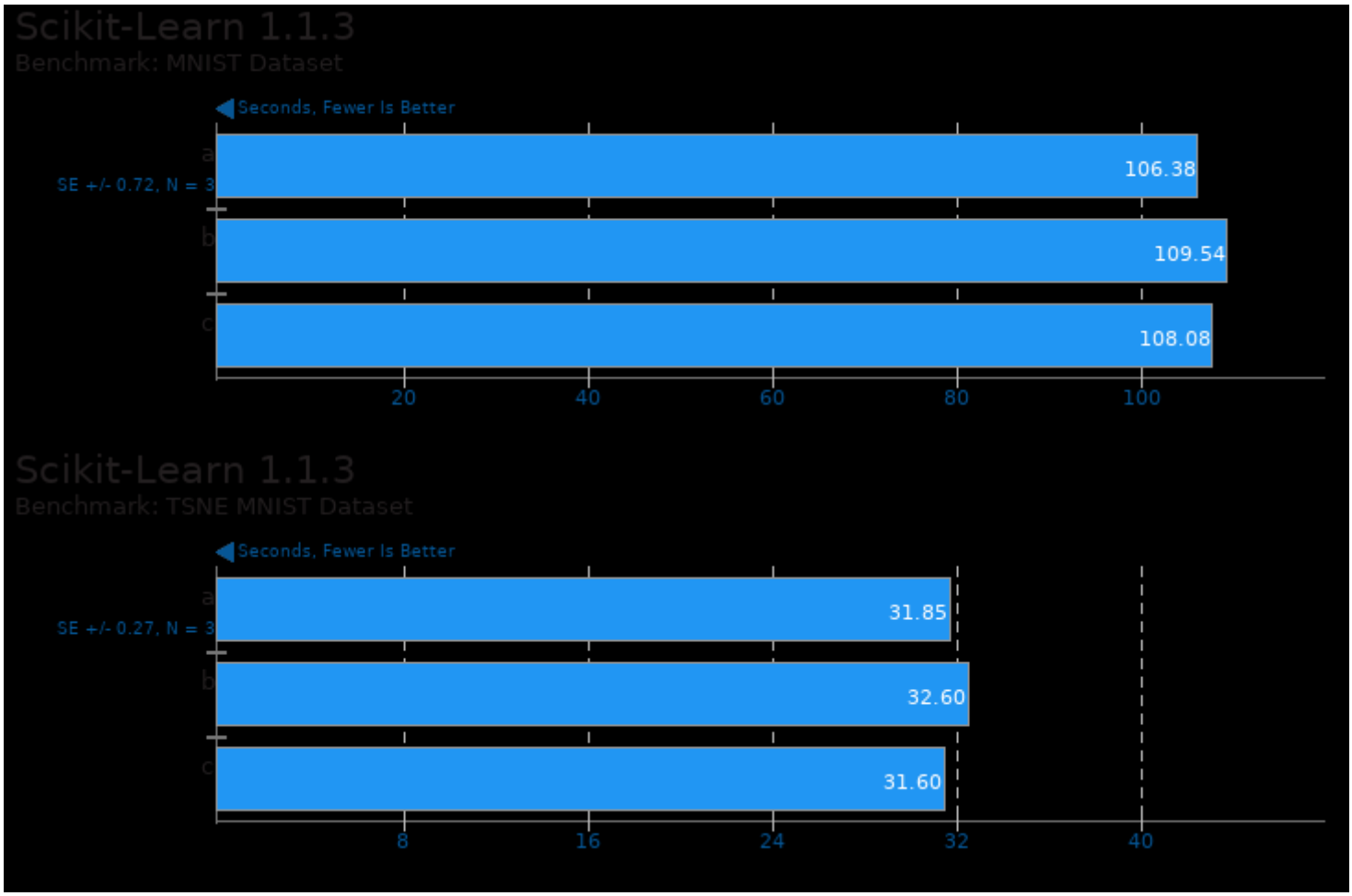
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These geometric means are based upon test groupings / test suites for this result file.




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

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:35.*