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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

c had the most wins, coming in first place for 62% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1.006x the speed of the slowest (b). c was 0.999x the speed of a and b was 0.995x the speed of c.

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

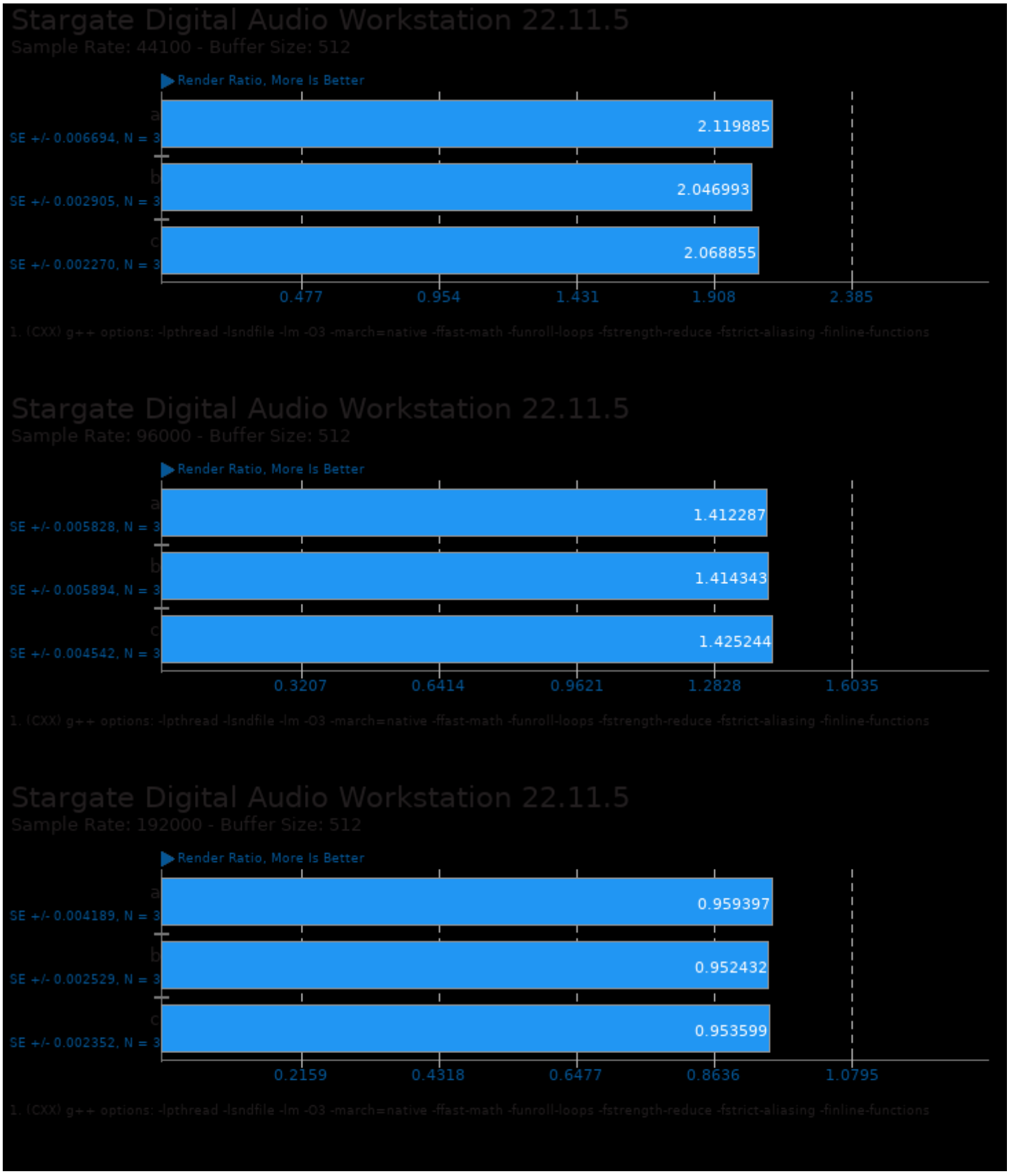
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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
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
Stargate Digital Audio Workstation - 44100 - 512 (Render Ratio)	**2.119885**	**2.046993**	2.068855
Normalized	100%	96.56%	97.59%
Standard Deviation	0.5%	0.2%	0.2%
Stargate Digital Audio Workstation - 96000 - 512 (Render Ratio)	**1.412287**	1.414343	**1.425244**
Normalized	99.09%	99.24%	100%
Standard Deviation	0.7%	0.7%	0.6%
Stargate Digital Audio Workstation - 192000 - 512 (Render Ratio)	**0.959397**	**0.952432**	0.953599
Normalized	100%	99.27%	99.4%
Standard Deviation	0.8%	0.5%	0.4%
Stargate Digital Audio Workstation - 44100 - 1024 (Render Ratio)	**2.180835**	2.188884	**2.197570**
Normalized	99.24%	99.6%	100%
Standard Deviation	1%	0.6%	0.1%
Stargate Digital Audio Workstation - 480000 - 512 (Render Ratio)	**2.002831**	**1.985156**	1.997202
Normalized	100%	99.12%	99.72%
Standard Deviation	0.4%	0.6%	0.5%
Stargate Digital Audio Workstation - 96000 - 1024 (Render Ratio)	1.496242	**1.491573**	**1.500663**
Normalized	99.71%	99.39%	100%
Standard Deviation	0.3%	0.5%	0.2%
Stargate Digital Audio Workstation - 192000 - 1024 (Render Ratio)	1.017385	**1.015841**	**1.019025**
Normalized	99.84%	99.69%	100%

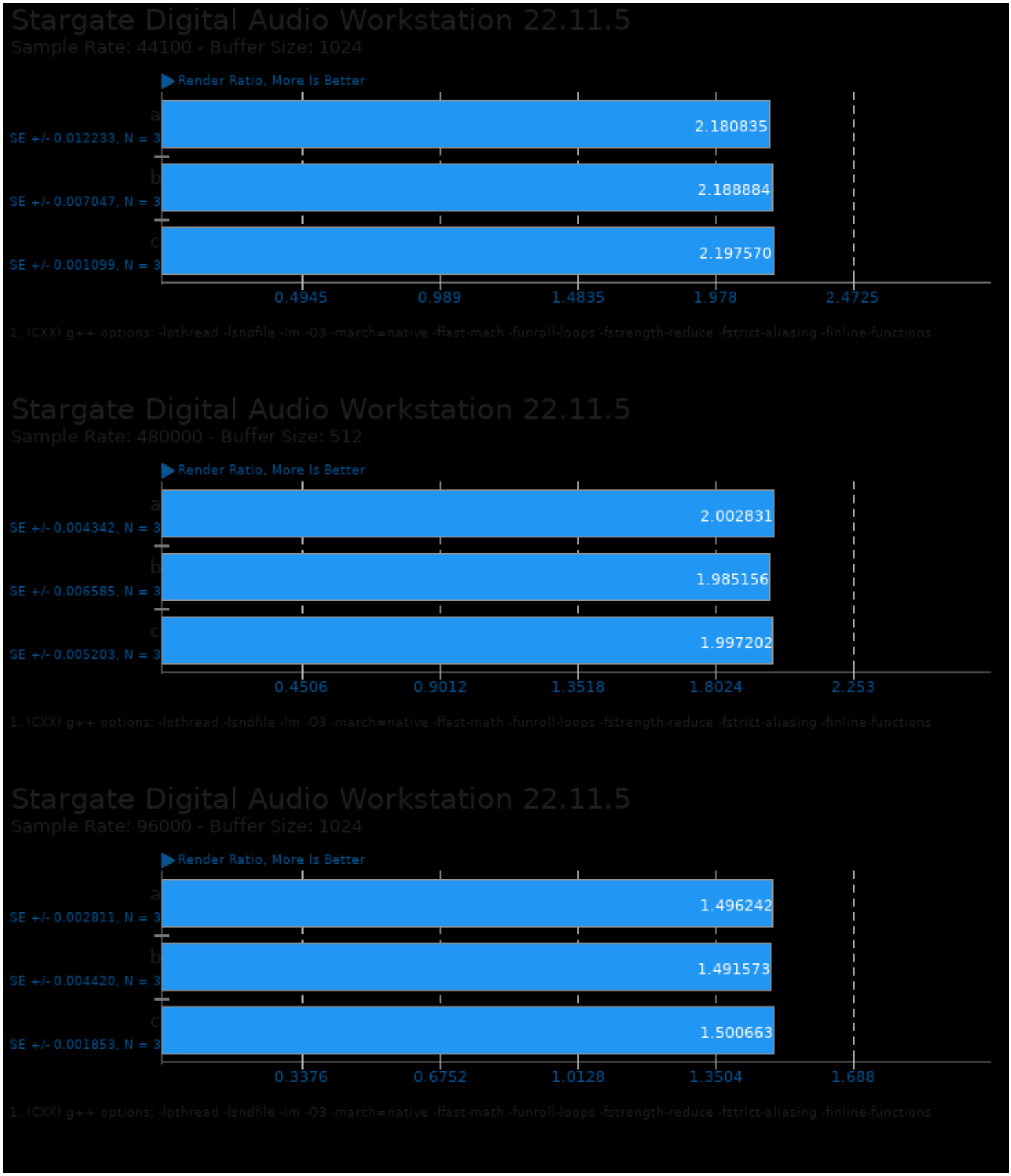
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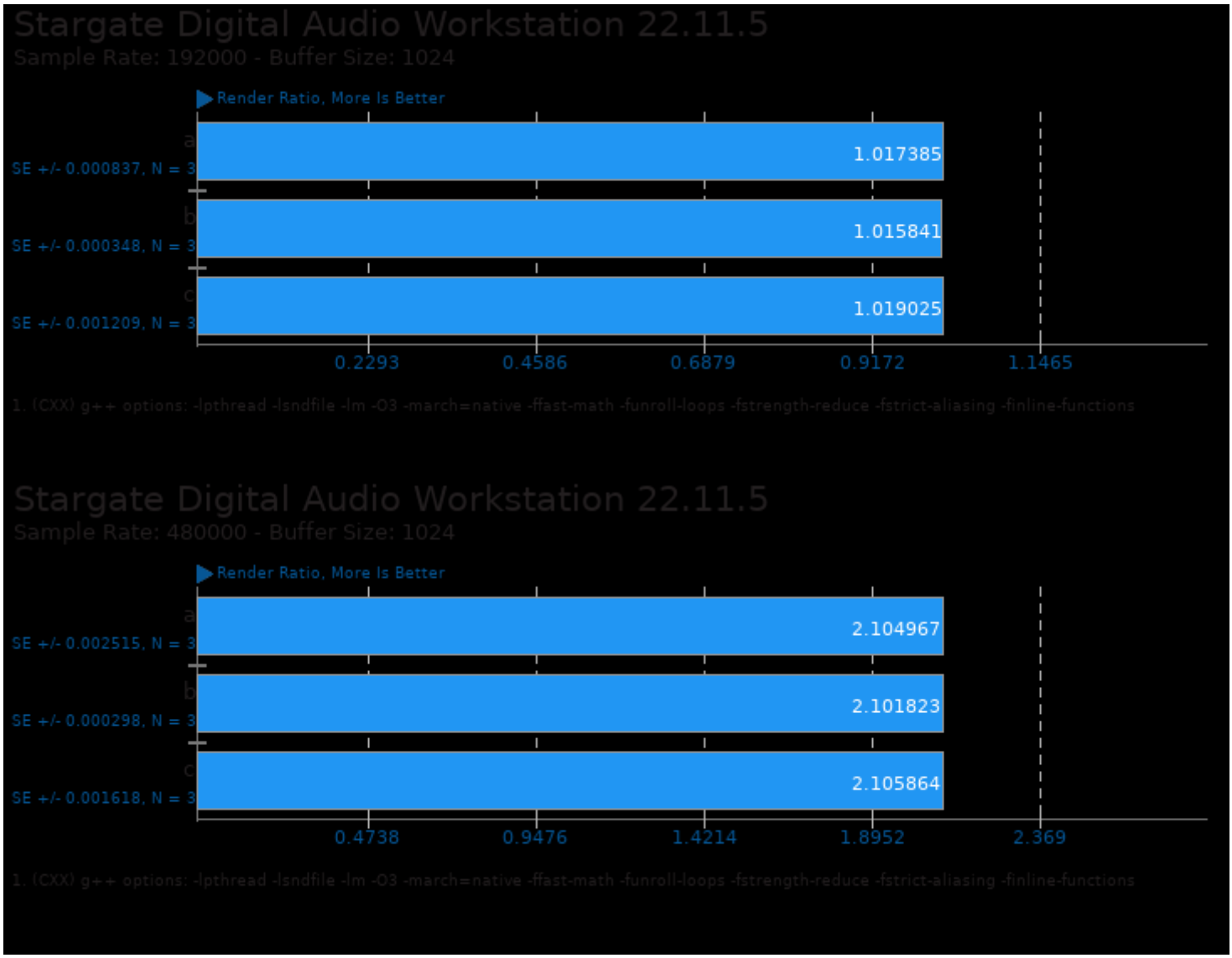
Standard Deviation	0.1%	0.1%	0.2%
Stargate Digital Audio Workstation - 480000 - 1024 (Render Ratio)	2.104967	**2.101823**	**2.105864**
Normalized	99.96%	99.81%	100%
Standard Deviation	0.2%	0%	0.1%

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:28.