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Intel Core i9-12900K testing with a ASUS ROG STRIX Z690-E GAMING WIFI (1003 BIOS) and AMD Radeon RX 6700/6700 XT / 6800M 12GB on Ubuntu 22.04 via the Phoronix Test Suite.

Test Systems:

A

B

C

Processor: Intel Core i9-12900K @ 5.20GHz (16 Cores / 24 Threads), Motherboard: ASUS ROG STRIX Z690-E GAMING WIFI (1003 BIOS), Chipset: Intel Device 7aa7, Memory: 32GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0 + 2000GB, Graphics: AMD Radeon RX 6700/6700 XT / 6800M 12GB (2880/1124MHz), Audio: Intel Device 7ad0, Monitor: ASUS VP28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.04, Kernel: 5.15.0-30-generic (x86_64), Desktop: GNOME Shell 42.0, Display Server: X Server 1.21.1.3

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+ Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.42), Vulkan: 1.3.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

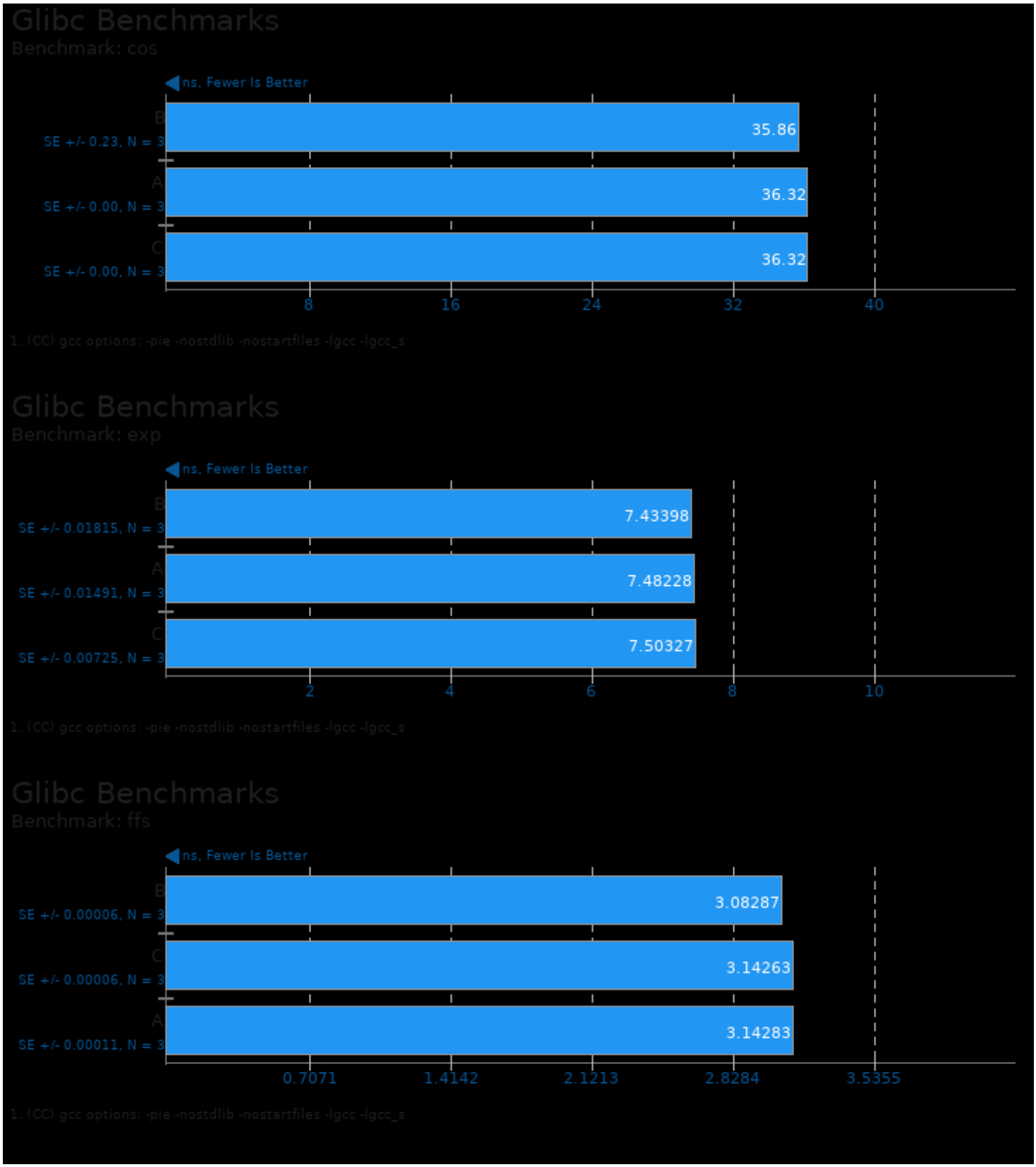
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/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-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 (EPP: balance_performance) - CPU Microcode: 0x18 - Thermald 2.4.9
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C
Glibc Benchmarks - cos (ns)	36.3178	**35.8559**	**36.3192**
Normalized	98.73%	100%	98.72%
Standard Deviation	0%	1.1%	0%
Glibc Benchmarks - exp (ns)	7.48228	**7.43398**	**7.50327**
Normalized	99.35%	100%	99.08%
Standard Deviation	0.3%	0.4%	0.2%
Glibc Benchmarks - ffs (ns)	**3.14283**	**3.08287**	3.14263
Normalized	98.09%	100%	98.1%
Standard Deviation	0%	0%	0%
Glibc Benchmarks - sin (ns)	**31.1440**	**30.5437**	31.1357
Normalized	98.07%	100%	98.1%
Standard Deviation	0%	0%	0%
Glibc Benchmarks - log2 (ns)	**11.2313**	**11.0179**	11.2306
Normalized	98.1%	100%	98.11%
Standard Deviation	0%	0%	0%
Glibc Benchmarks - modf (ns)	3.54200	**3.49794**	**3.54206**
Normalized	98.76%	100%	98.75%
Standard Deviation	0%	1.1%	0%
Glibc Benchmarks - sinh (ns)	**11.5675**	**11.3386**	11.5583
Normalized	98.02%	100%	98.1%
Standard Deviation	0.1%	0%	0%
Glibc Benchmarks - sqrt (ns)	**3.50481**	**3.43806**	3.50475
Normalized	98.1%	100%	98.1%
Standard Deviation	0%	0%	0%
Glibc Benchmarks - tanh (ns)	**18.2016**	**17.8531**	18.2008
Normalized	98.09%	100%	98.09%
Standard Deviation	0%	0%	0%
Glibc Benchmarks - asinh (ns)	**14.3040**	**14.0217**	14.2954
Normalized	98.03%	100%	98.09%
Standard Deviation	0.1%	0%	0%
Glibc Benchmarks - atanh (ns)	**18.1832**	**17.8363**	18.1828
Normalized	98.09%	100%	98.09%
Standard Deviation	0%	0%	0%
Glibc Benchmarks - ffsll (ns)	**3.14263**	**3.10283**	3.14262
Normalized	98.73%	100%	98.73%
Standard Deviation	0%	1.1%	0%
Glibc Benchmarks - sincos (ns)	**21.0864**	**20.8283**	21.0842

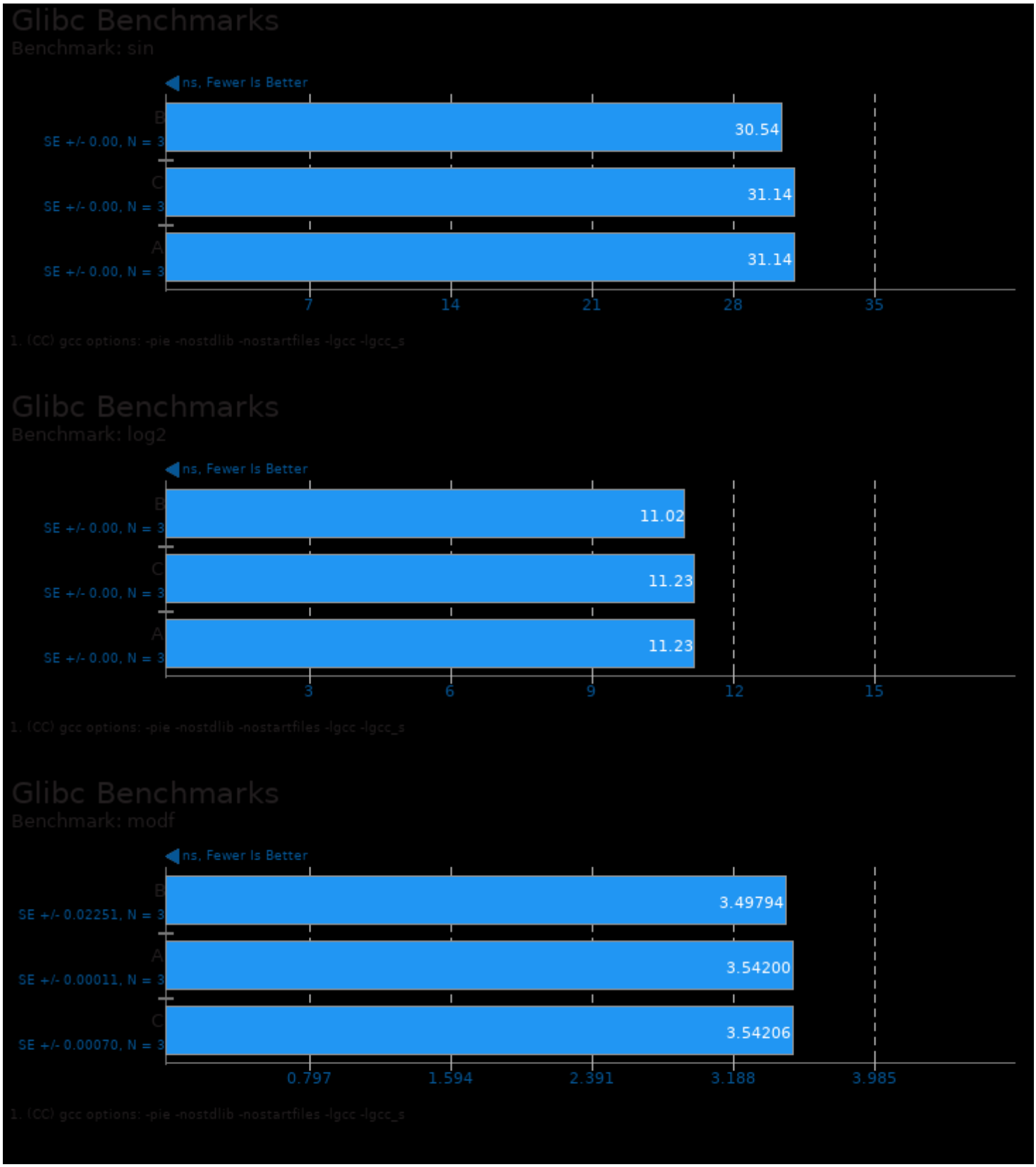
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Normalized	98.78%	100%	98.79%
Standard Deviation	0.1%	1.1%	0.1%
Glibc Benchmarks - pthread_once (ns)	1.69538	**1.67372**	**1.69546**
Normalized	98.72%	100%	98.72%
Standard Deviation	0%	1.1%	0%

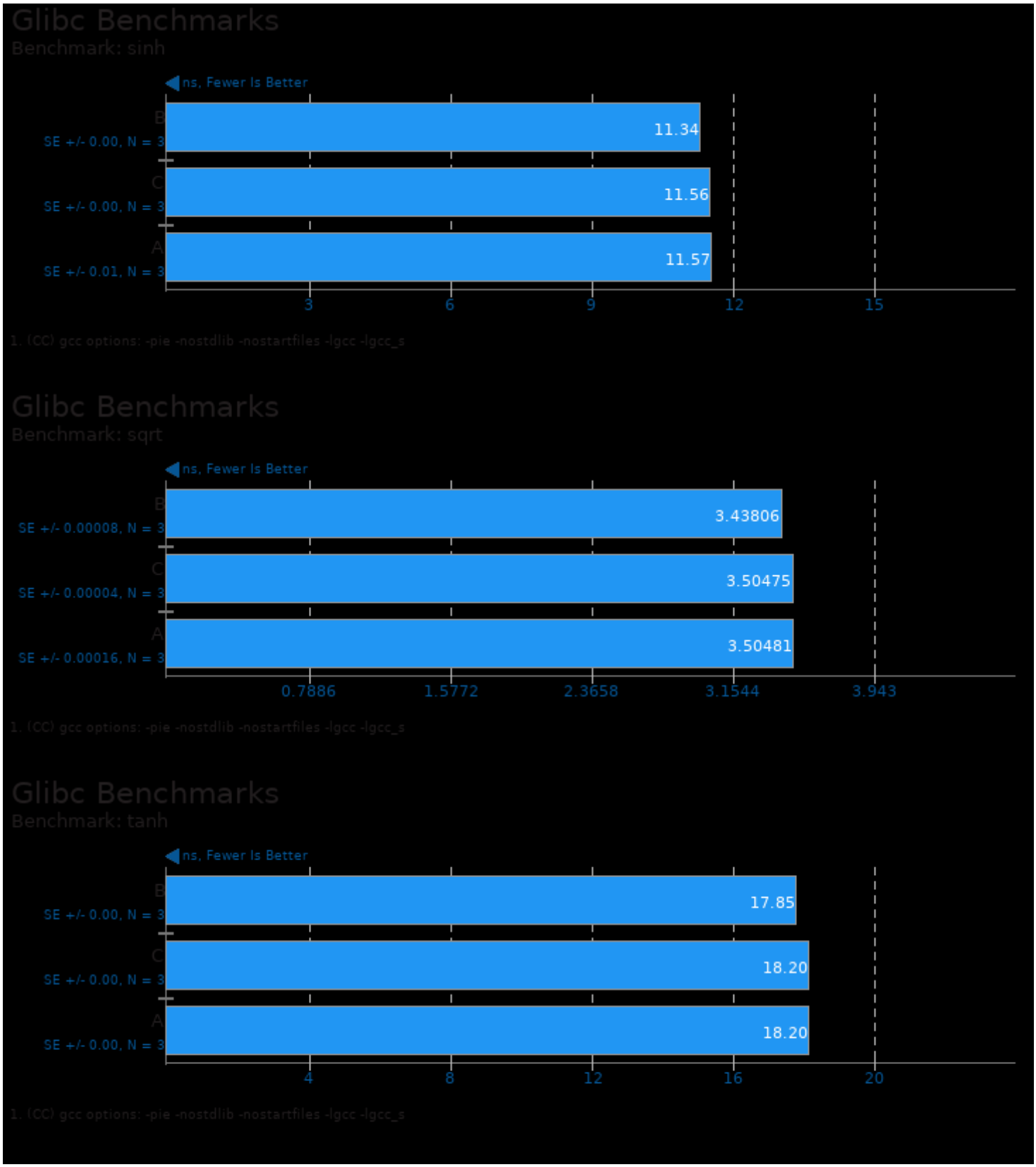
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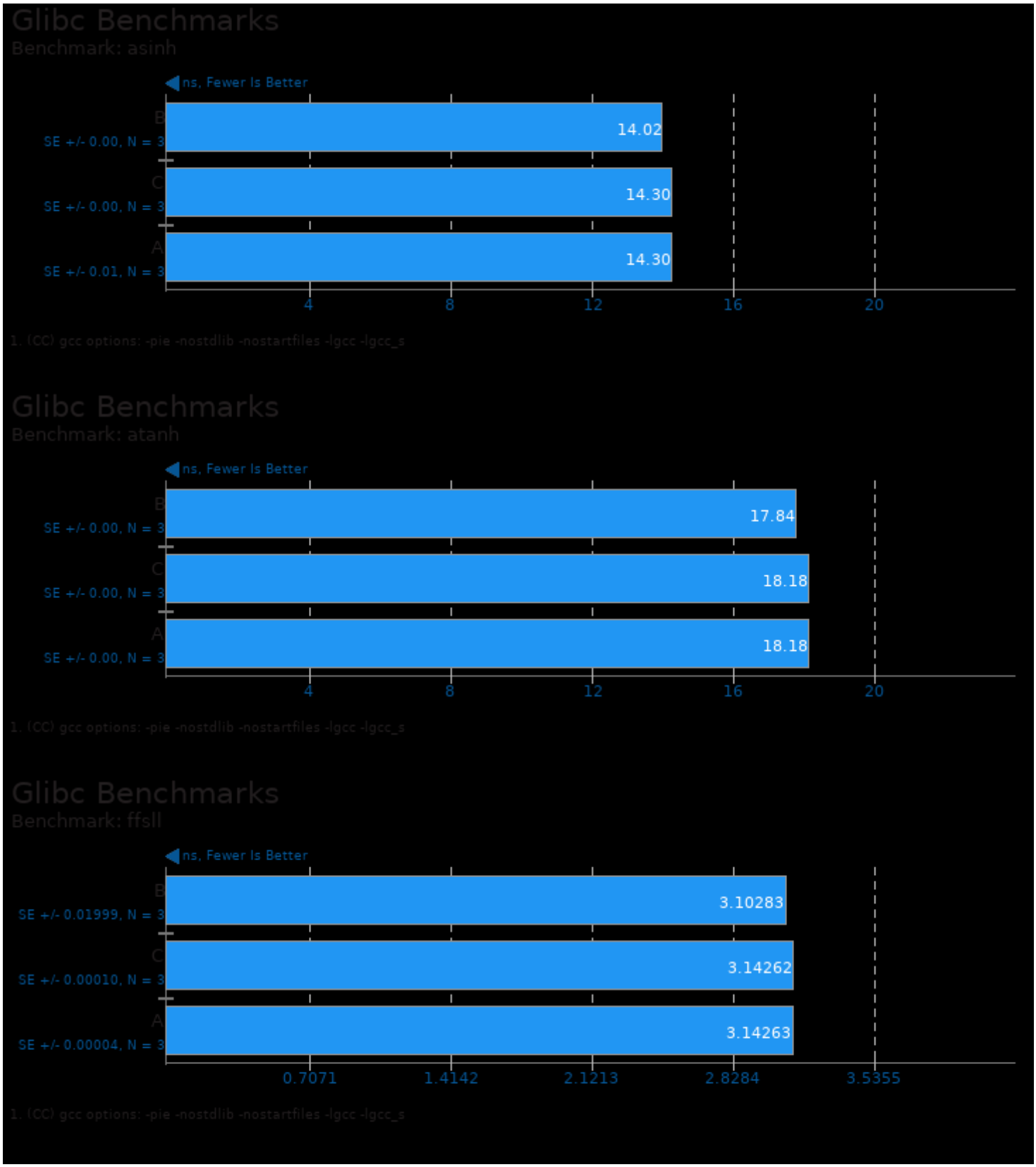
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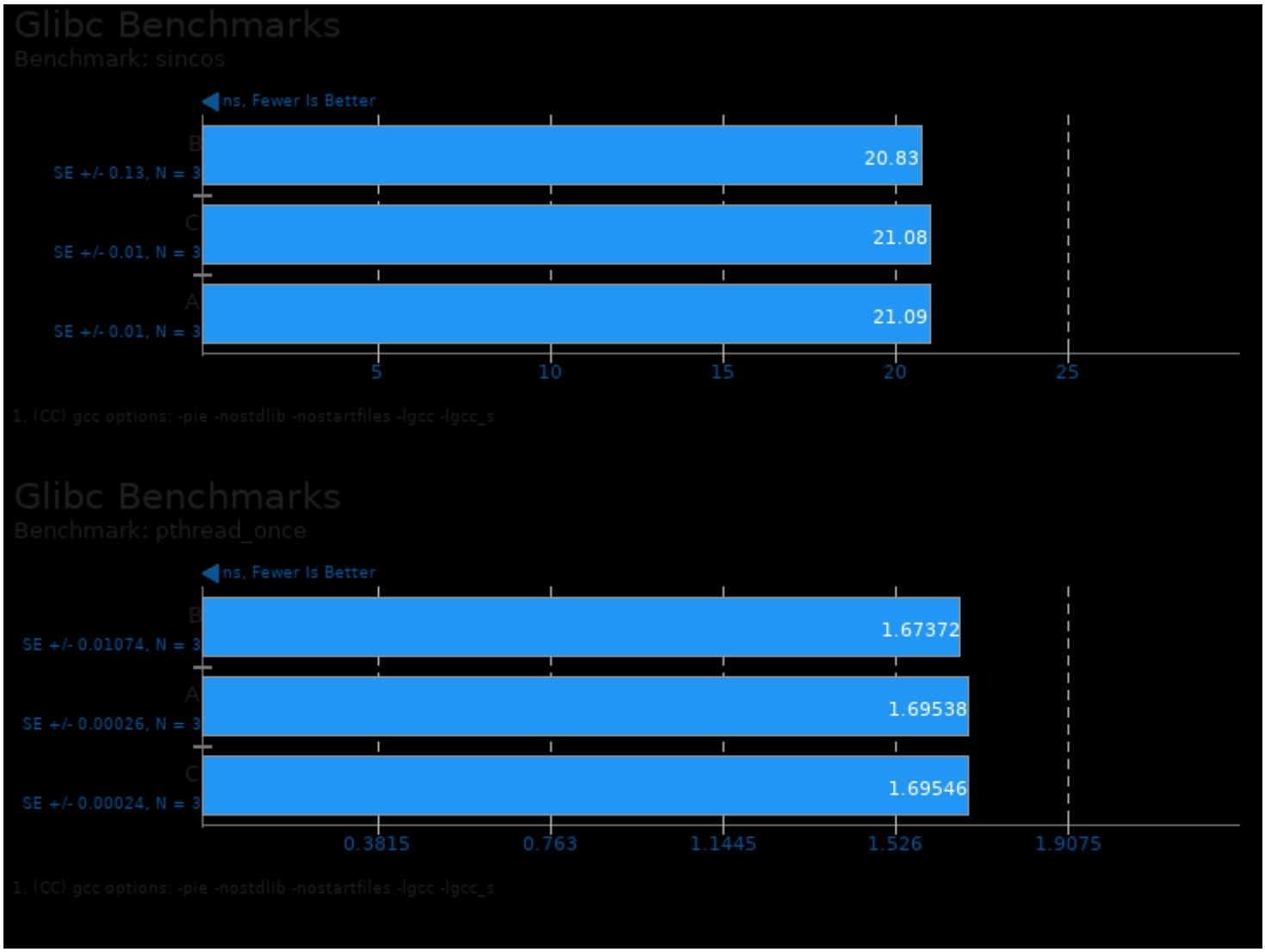
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