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0xO1-pts-botan-deadpool

AMD Ryzen 5 1600 Six-Core testing with a ASUS PRIME B450M-A II (3002 BIOS) and Gigabyte NVIDIA GeForce GTX 1650 4GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637780838 had the most wins, coming in first place for 75% of the tests.

Based on the geometric mean of all complete results, the fastest (Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637780838) was 1.002x the speed of the slowest (Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637750816).

Test Systems:

Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637750816

Processor: AMD Ryzen 5 1600 Six-Core @ 3.20GHz (6 Cores / 12 Threads), Motherboard: Gigabyte A320M-S2H-CF

(F53 BIOS), Chipset: AMD 17h, Memory: 32GB, Disk: 1024GB KLEVV CRAS C710 M.2 NVMe SSD 1TB, Graphics: Gigabyte NVIDIA GeForce GTX 1650 4GB, Audio: NVIDIA Device 10fa, Monitor: Sceptre C27, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.11.0-40-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Display Driver: nouveau, Compiler: GCC 9.3.0, 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-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/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-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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x800820d
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 Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637780838

Processor: AMD Ryzen 5 1600 Six-Core @ 3.20GHz (6 Cores / 12 Threads), Motherboard: ASUS PRIME B450M-A II (3002 BIOS), Chipset: AMD 17h, Memory: 32GB, Disk: 1024GB KLEVV CRAS C710 M.2 NVMe SSD 1TB, Graphics: Gigabyte NVIDIA GeForce GTX 1650 4GB, Audio: NVIDIA Device 10fa, Monitor: Sceptre C27, Network: Realtek RTL8111/8168/8411

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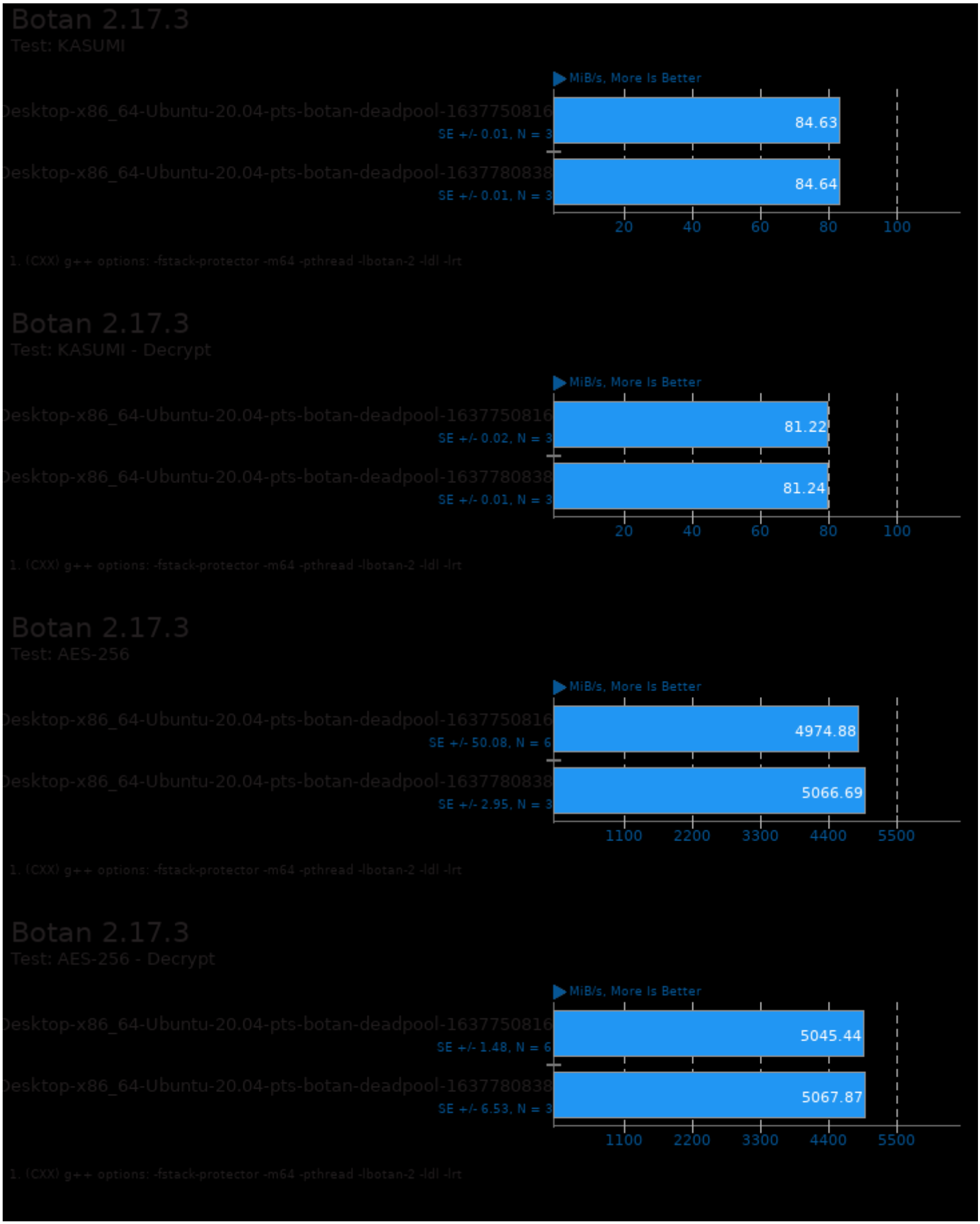
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Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x800820d
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	Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637750816	Desktop-x86_64-Ubuntu-20.04-pts-botan-deadpool-1637780838
Botan - KASUMI (MiB/s)	**84.625**	**84.635**
Normalized	99.99%	100%
Standard Deviation	0%	0%
Botan - KASUMI - Decrypt (MiB/s)	**81.217**	**81.236**
Normalized	99.98%	100%
Standard Deviation	0%	0%
Botan - AES-256 (MiB/s)	**4975**	**5067**
Normalized	98.19%	100%
Standard Deviation	2.5%	0.1%
Botan - AES-256 - Decrypt (MiB/s)	**5045**	**5068**
Normalized	99.56%	100%
Standard Deviation	0.1%	0.2%

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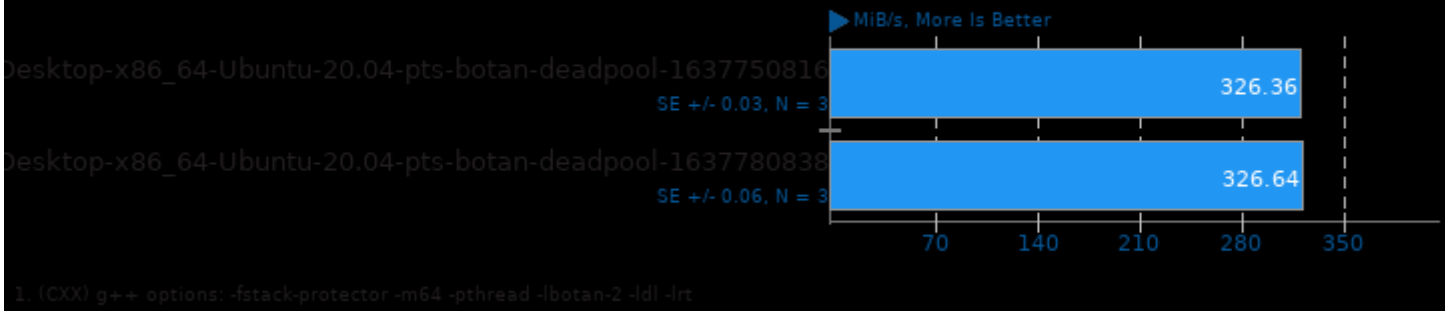
Botan - Twofish (MiB/s)	**326.360**	**326.641**
Normalized	99.91%	100%
Standard Deviation	0%	0%
Botan - Twofish - Decrypt (MiB/s)	**325.898**	**325.788**
Normalized	100%	99.97%
Standard Deviation	0%	0%
Botan - Blowfish (MiB/s)	**398.921**	**399.013**
Normalized	99.98%	100%
Standard Deviation	0.1%	0.1%
Botan - Blowfish - Decrypt (MiB/s)	**398.425**	**398.693**
Normalized	99.93%	100%
Standard Deviation	0.1%	0%
Botan - CAST-256 (MiB/s)	**130.464**	**130.582**
Normalized	99.91%	100%
Standard Deviation	0%	0%
Botan - CAST-256 - Decrypt (MiB/s)	**130.565**	**130.624**
Normalized	99.95%	100%
Standard Deviation	0%	0%
Botan - ChaCha20Poly1305 (MiB/s)	**448.088**	**448.029**
Normalized	100%	99.99%
Standard Deviation	0%	0%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	**446.755**	**445.965**
Normalized	100%	99.82%
Standard Deviation	0.1%	0.2%

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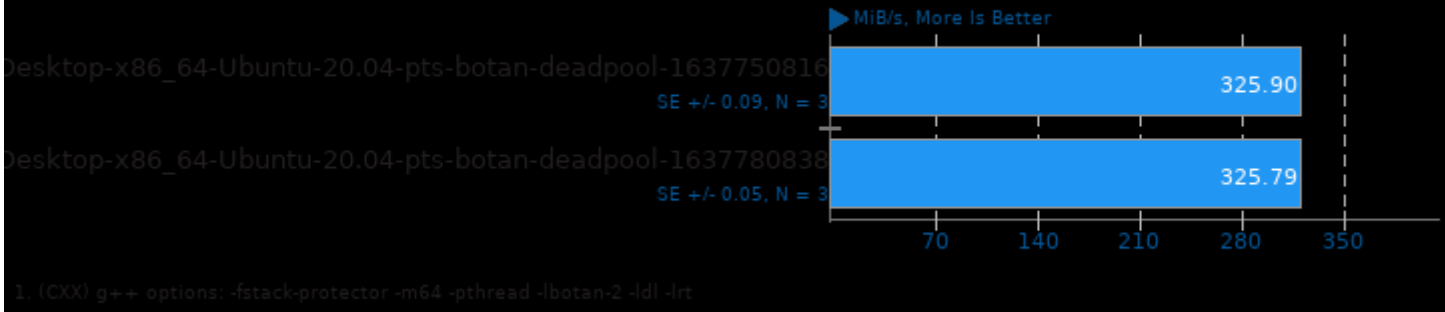
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Botan 2.17.3
Test: Twofish



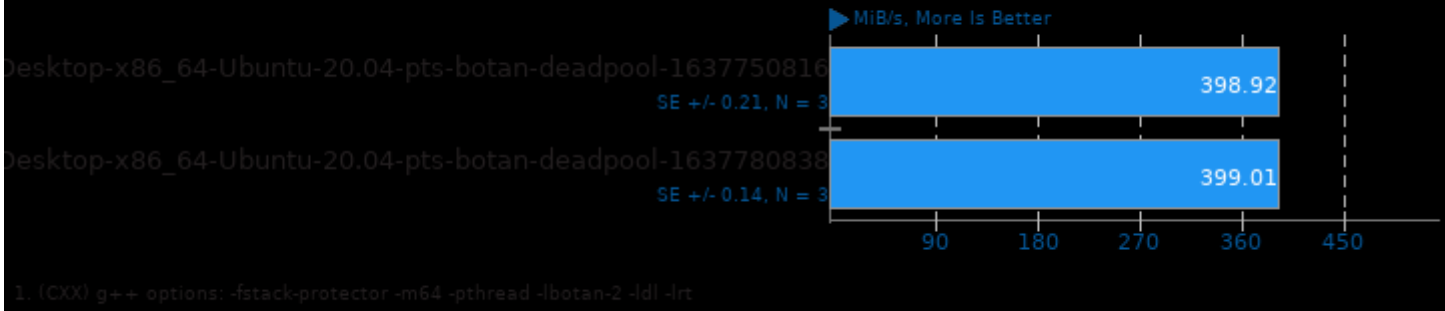
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3
Test: Twofish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3
Test: Blowfish



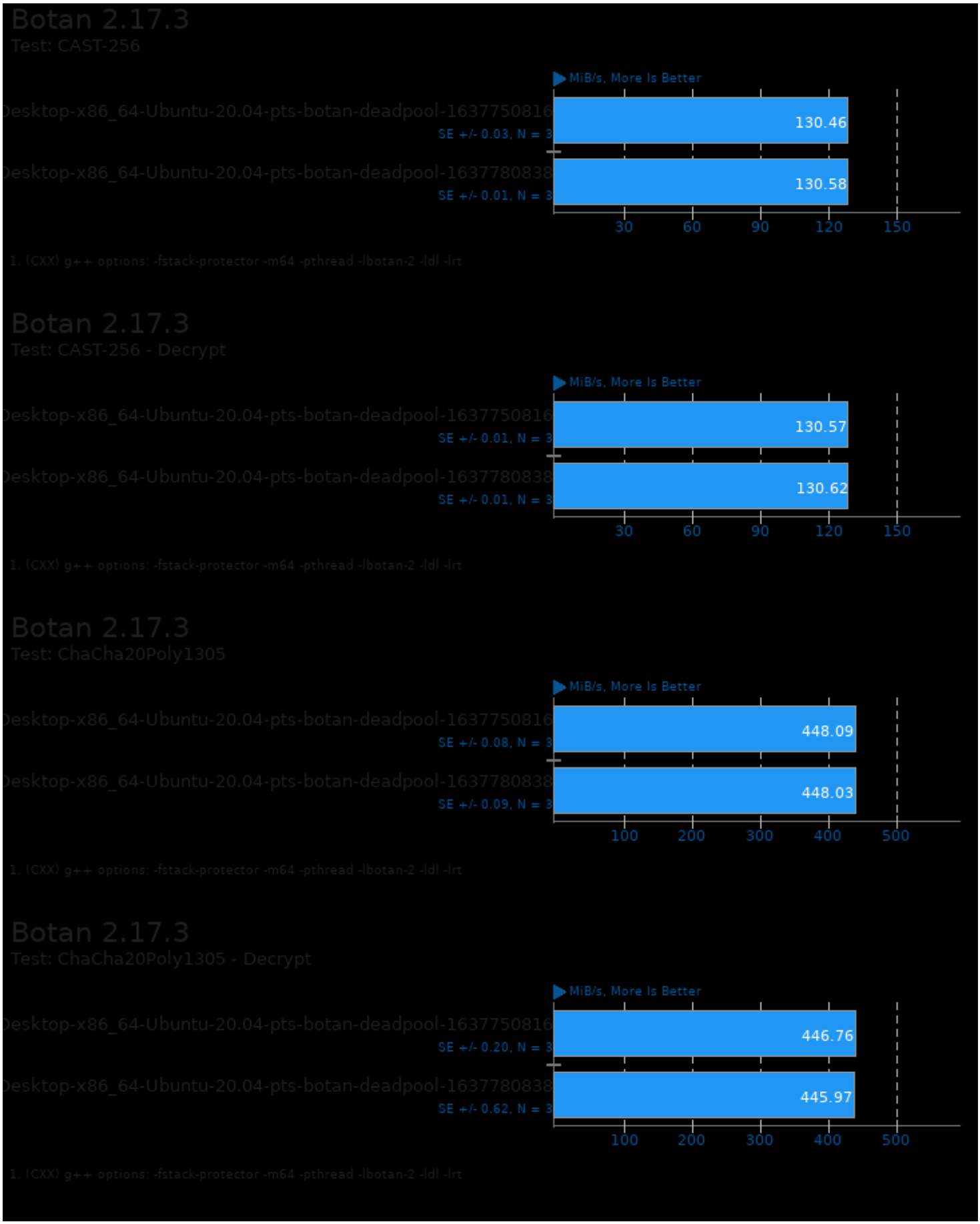
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Botan 2.17.3
Test: Blowfish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

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