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# blk-5500u

AMD Ryzen 5 5500U testing with a NB01 NL5xNU (1.07.11RTR1 BIOS) and AMD Lucienne 512MB on Pop 22.04 via the Phoronix Test Suite.

## Test Systems:

### A

### B

### C

### D

Processor: AMD Ryzen 5 5500U @ 2.10GHz (6 Cores / 12 Threads), Motherboard: NB01 NL5xNU (1.07.11RTR1 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Lucienne 512MB (1800/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + Intel Wi-Fi 6 AX200

# blk-5500u

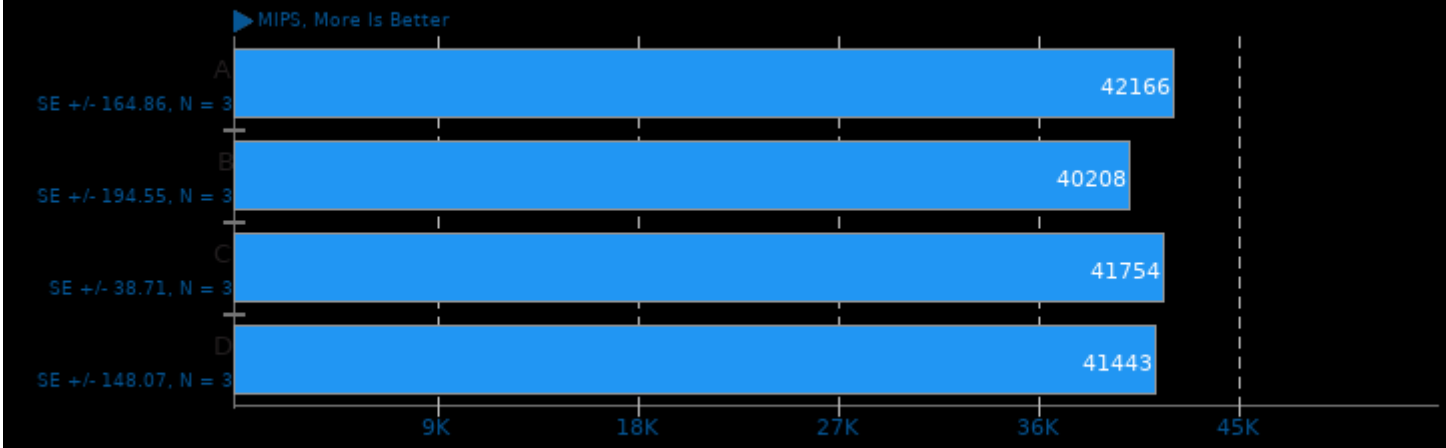
OS: Pop 22.04, Kernel: 5.17.5-76051705-generic (x86_64), Desktop: GNOME Shell 42.1, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.2.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-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: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8608103
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: 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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

| | A | B | C | D |
|---|---|---|---|---|
| **7-Zip Compression - Compression Rating (MIPS)** | **42166** | **40208** | 41754 | 41443 |
| **Normalized** | 100% | 95.36% | 99.02% | 98.29% |
| **Standard Deviation** | 0.7% | 0.8% | 0.2% | 0.6% |
| **7-Zip Compression - D.R (MIPS)** | **39812** | **37127** | 39741 | 39252 |
| **Normalized** | 100% | 93.26% | 99.82% | 98.59% |
| **Standard Deviation** | 1.4% | 1% | 1.2% | 1.6% |
| **Timed Linux Kernel Compilation - defconfig (sec)** | **163.832** | **175.930** | 164.429 | 164.671 |
| **Normalized** | 100% | 93.12% | 99.64% | 99.49% |
| **Standard Deviation** | 0.2% | 1.3% | 0.1% | 0.2% |
| **Timed Linux Kernel Compilation - allmodconfig (sec)** | | **2275** | | **2270** |
| **Normalized** | | 99.79% | | 100% |
| **Standard Deviation** | | 0% | | 0.4% |

## 7-Zip Compression 22.00

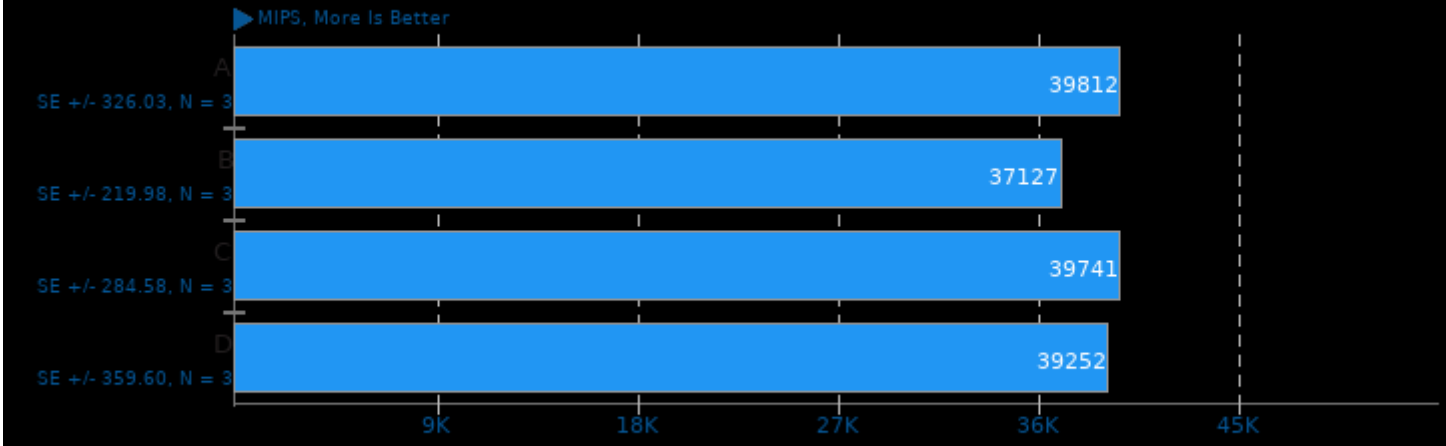
Test: Compression Rating




1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

## 7-Zip Compression 22.00

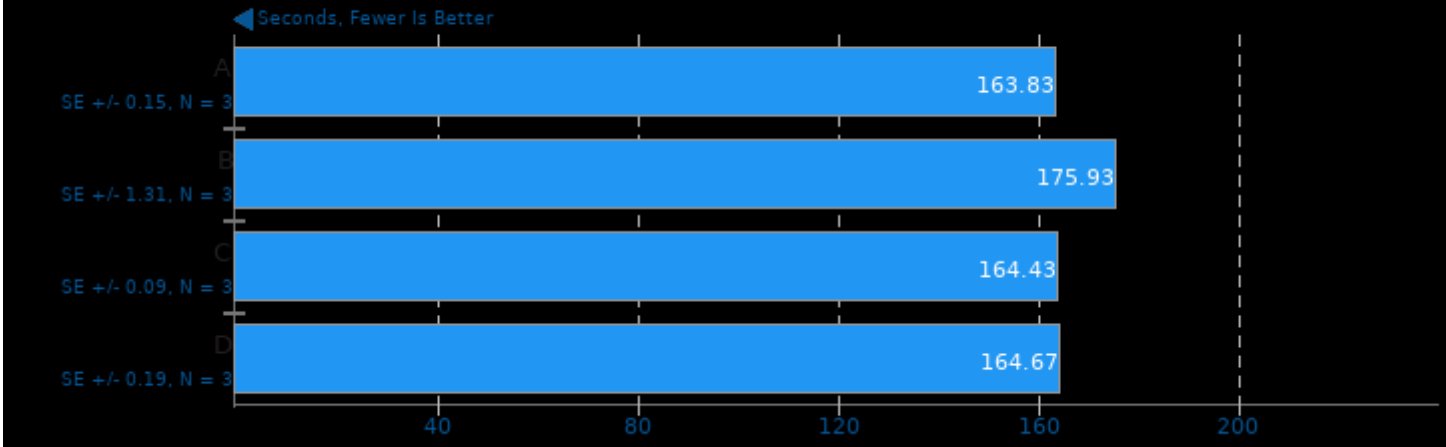
Test: Decompression Rating

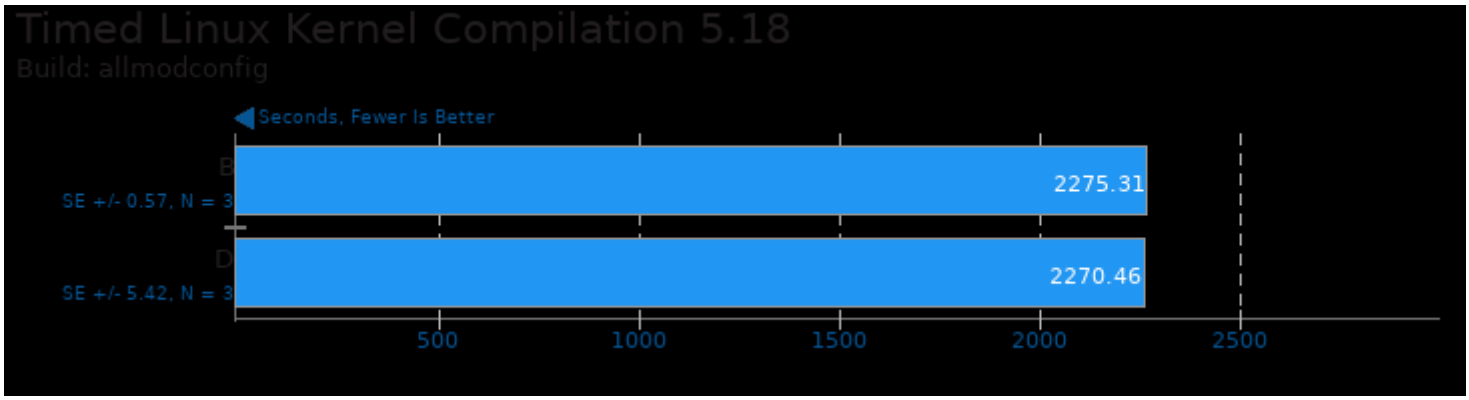



1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

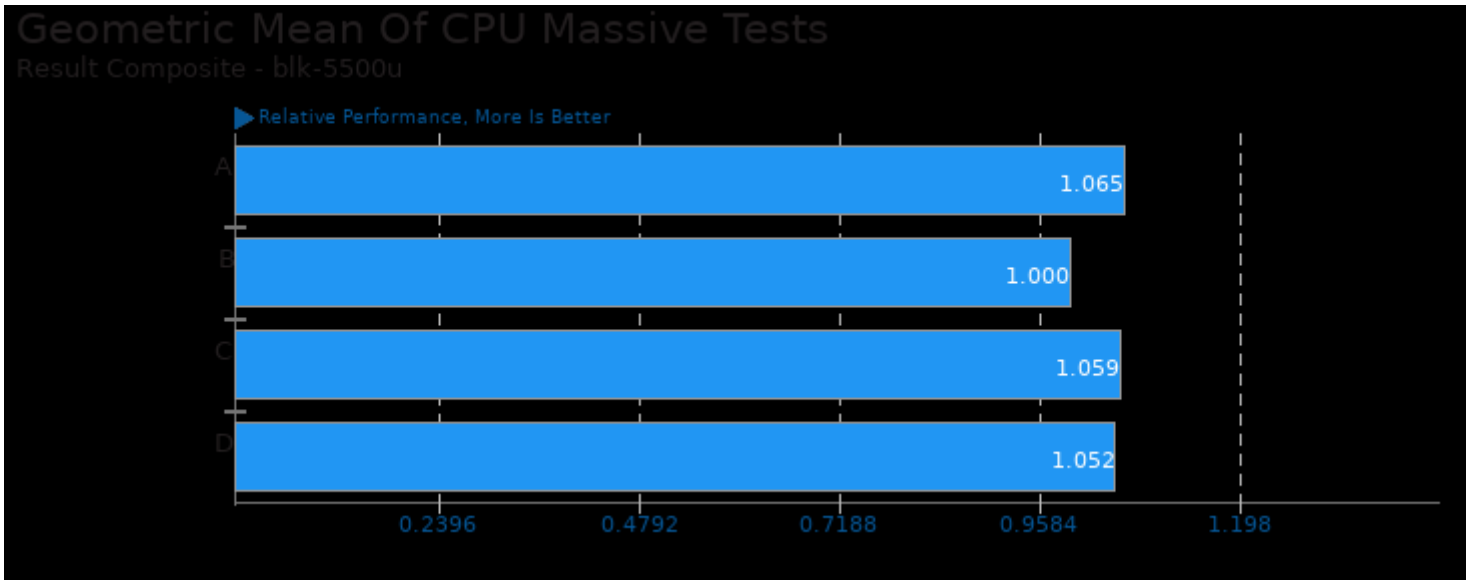
## Timed Linux Kernel Compilation 5.18

Build: defconfig

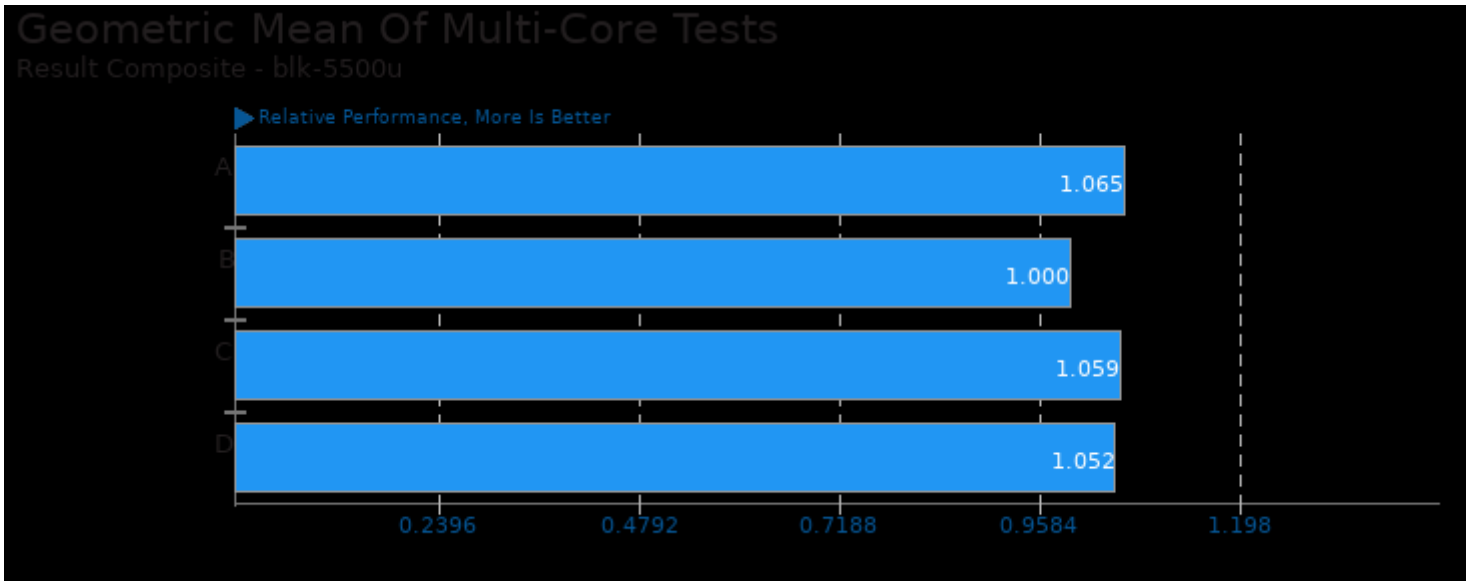



Timed Linux Kernel Compilation 5.18
Build: allmodconfig
Seconds, Fewer Is Better
SE +/- 0.57, N = 3
2275.31
SE +/- 5.42, N = 3
2270.46
500
1000
1500
2000
2500

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

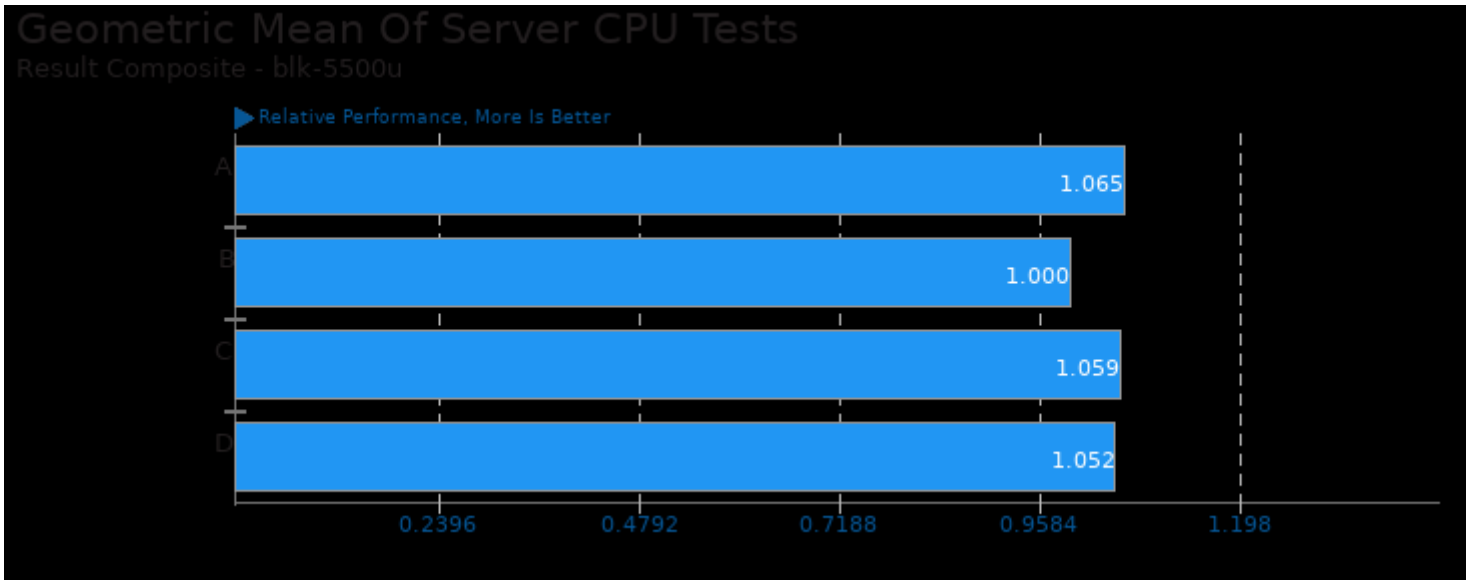



Geometric mean based upon tests: pts/build-linux-kernel and pts/compress-7zip




Geometric mean based upon tests: pts/compress-7zip and pts/build-linux-kernel

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Geometric mean based upon tests: pts/compress-7zip and pts/build-linux-kernel

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:02.*