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# 7100 quick

lxc testing on Debian GNU/Linux 9 via the Phoronix Test Suite.

## Test Systems:

### Intel Core i3-7100

Processor: Intel Core i3-7100 @ 3.90GHz (2 Cores / 4 Threads), Motherboard: Gigabyte B250M-DS3H-CF (F9 BIOS), Chipset: Intel Xeon E3-1200 v6/7th + B250, Memory: 8GB, Disk: 250GB Western Digital WDS250G1B0A-, Graphics: Gigabyte Intel HD 630 3GB (1100MHz), Audio: Realtek ALC887-VD, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 19.10, Kernel: 5.3.0-46-generic (x86_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.5, Display Driver: modesetting 1.20.5, OpenGL: 4.5 Mesa 19.2.8, Compiler: GCC 9.2.1 20191008, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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-offload-targets=nvptx-none,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: intel_pstate powersave - CPU Microcode: 0xca
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + tsx_async_abort: Not affected

## z230 LXC

Processor: Intel Xeon E3-1245 v3 @ 3.80GHz (4 Cores / 8 Threads), Motherboard: HP 1905 (L51 v01.18 BIOS), Memory: 4 x 8192 MB DDR3-1600MHz Samsung M391B1G73QH0-CK0, Disk: 4 x 256GB MTFDDAK256MAM-1K, Graphics: i915drmfb (1200MHz), Monitor: LG HDR 4K

OS: Debian GNU/Linux 9, Kernel: 5.4.65-1-pve (x86_64), Vulkan: 1.0.39, Compiler: GCC 6.3.0 20170516, File-System: zfs, Screen Resolution: 1920x1080, System Layer: lxc

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x17
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable STIBP: disabled + srbds: Vulnerable: No microcode + tsx_async_abort: Vulnerable

## z230 LXC 20201118

Processor: Intel Xeon E3-1245 v3 @ 3.80GHz (4 Cores / 8 Threads), Motherboard: HP 1905 (L51 v01.63 BIOS), Memory: 4 x 8192 MB DDR3-1600MHz Samsung M391B1G73QH0-CK0, Disk: 4 x 256GB MTFDDAK256MAM-1K + 2GB DISK, Graphics: i915drmfb (1200MHz), Monitor: LG HDR 4K

OS: Debian GNU/Linux 9, Kernel: 5.4.65-1-pve (x86_64), Vulkan: 1.0.39, Compiler: GCC 6.3.0 20170516, File-System: zfs, Screen Resolution: 1920x1080, System Layer: lxc

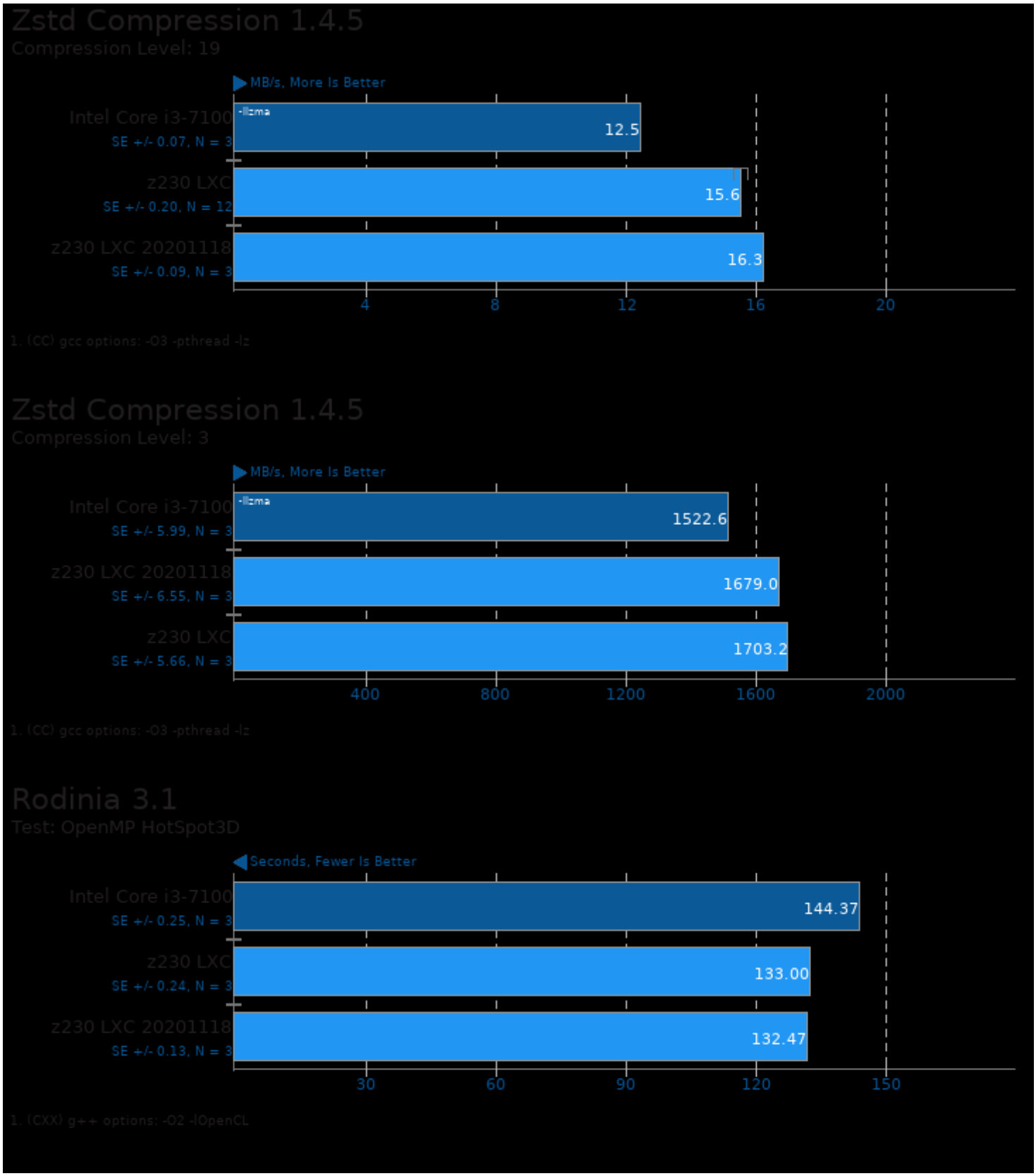
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x28
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Vulnerable + tsx_async_abort: Not affected

| | Intel Core i3-7100 | z230 LXC | z230 LXC 20201118 |
|---|---|---|---|
| **Zstd Compression - 19 (MB/s)** | **12.5** | 15.6 | **16.3** |
| **Normalized** | 76.69% | 95.71% | 100% |
| **Standard Deviation** | 0.9% | 4.5% | 0.9% |
| **Zstd Compression - 3 (MB/s)** | **1523** | **1703** | 1679 |
| **Normalized** | 89.4% | 100% | 98.58% |
| **Standard Deviation** | 0.7% | 0.6% | 0.7% |
| **Rodinia - OpenMP HotSpot3D (sec)** | **144.374** | 132.999 | **132.466** |
| **Normalized** | 91.75% | 99.6% | 100% |
| **Standard Deviation** | 0.3% | 0.3% | 0.2% |

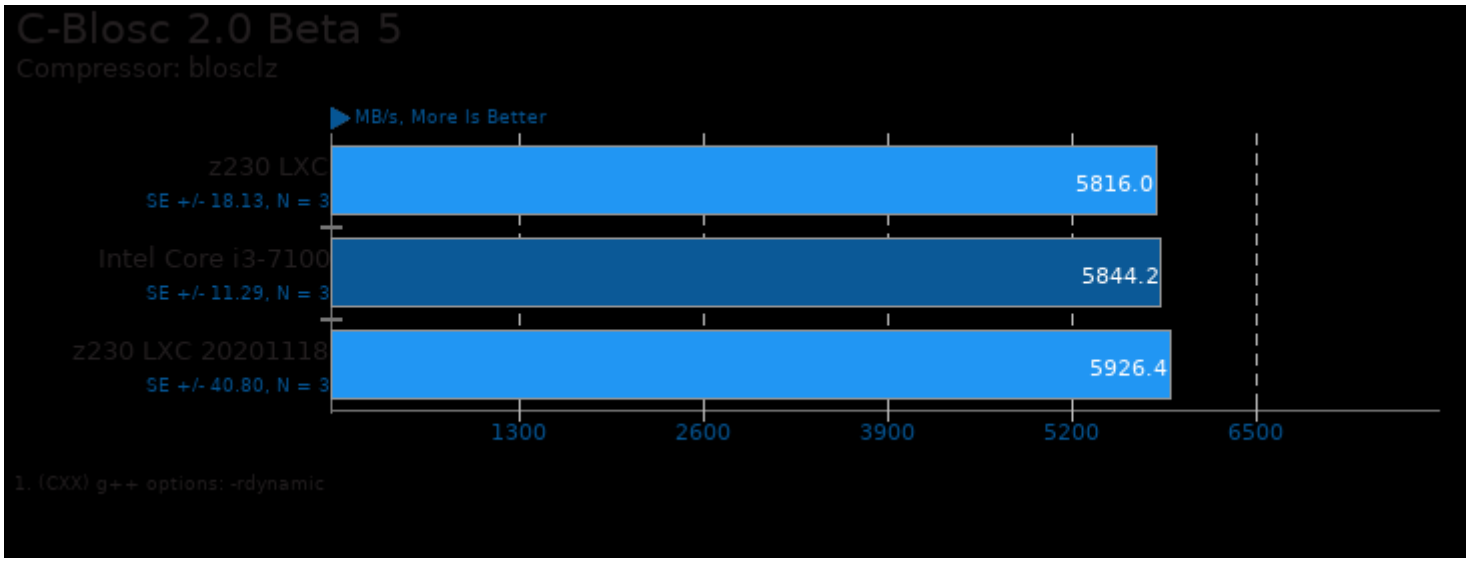
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| C-Blosc - blosclz (MB/s) | 5844 | 5816 | 5926 |
|---|---|---|---|
| **Normalized** | 98.61% | 98.14% | 100% |
| **Standard Deviation** | 0.3% | 0.5% | 1.2% |

# 7100 quick

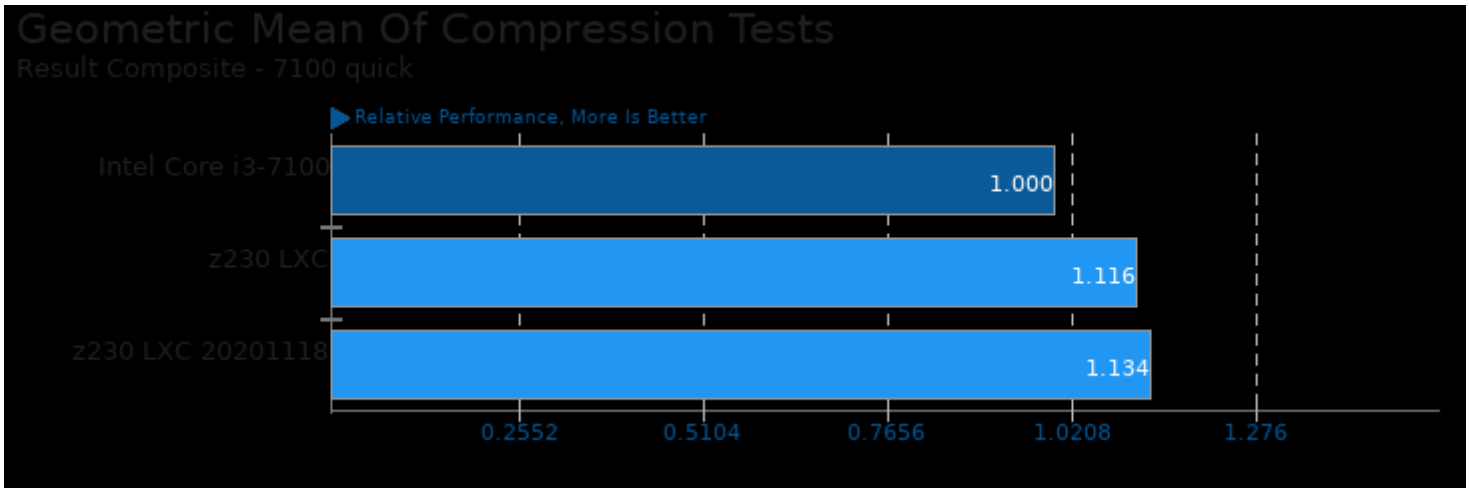

Zstd Compression 1.4.5
Compression Level: 19
MB/s, More Is Better
Intel Core i3-7100
SE +/- 0.07, N = 3
12.5
z230 LXC
SE +/- 0.20, N = 12
15.6
z230 LXC 20201118
SE +/- 0.09, N = 3
16.3
4
8
12
16
20
1. (CC) gcc options: -O3 -pthread -lz
Zstd Compression 1.4.5
Compression Level: 3
MB/s, More Is Better
Intel Core i3-7100
SE +/- 5.99, N = 3
1522.6
z230 LXC 20201118
SE +/- 6.55, N = 3
1679.0
z230 LXC
SE +/- 5.66, N = 3
1703.2
400
800
1200
1600
2000
1. (CC) gcc options: -O3 -pthread -lz
Rodinia 3.1
Test: OpenMP HotSpot3D
Seconds, Fewer Is Better
Intel Core i3-7100
SE +/- 0.25, N = 3
144.37
z230 LXC
SE +/- 0.24, N = 3
133.00
z230 LXC 20201118
SE +/- 0.13, N = 3
132.47
30
60
90
120
150
1. (CXX) g++ options: -O2 -lOpenCL

# 7100 quick

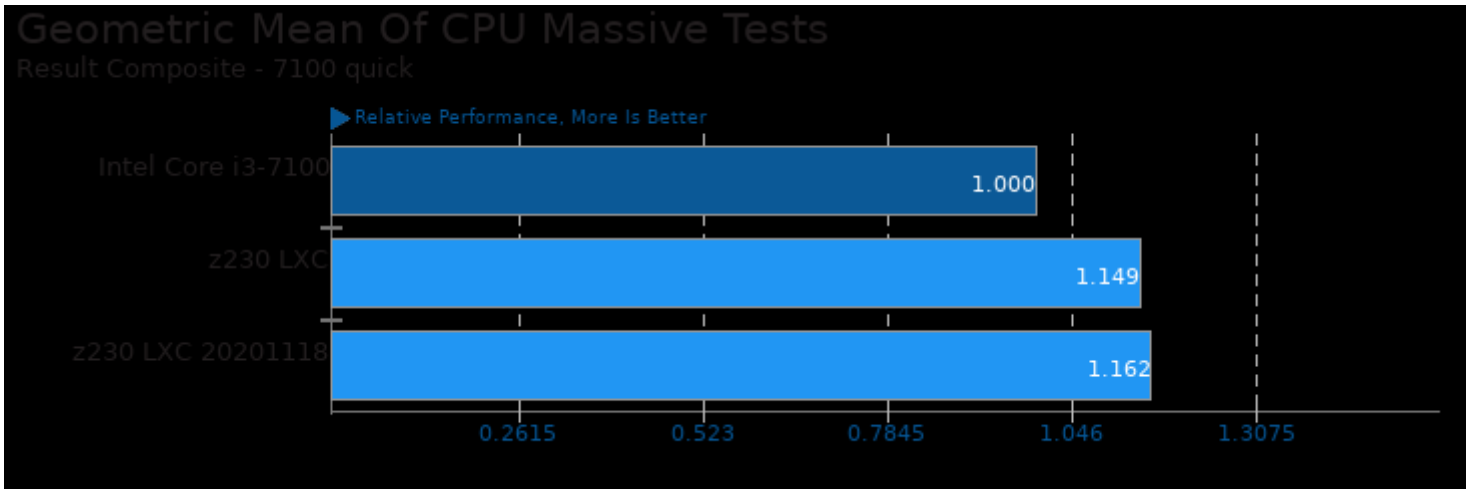

C-Blosc 2.0 Beta 5
Compressor: blosclz
MB/s, More Is Better
z230 LXC
SE +/- 18.13, N = 3
5816.0
Intel Core i3-7100
SE +/- 11.29, N = 3
5844.2
z230 LXC 20201118
SE +/- 40.80, N = 3
5926.4
1300
2600
3900
5200
6500
1. (CXX) g++ options: -rdynamic

# 7100 quick

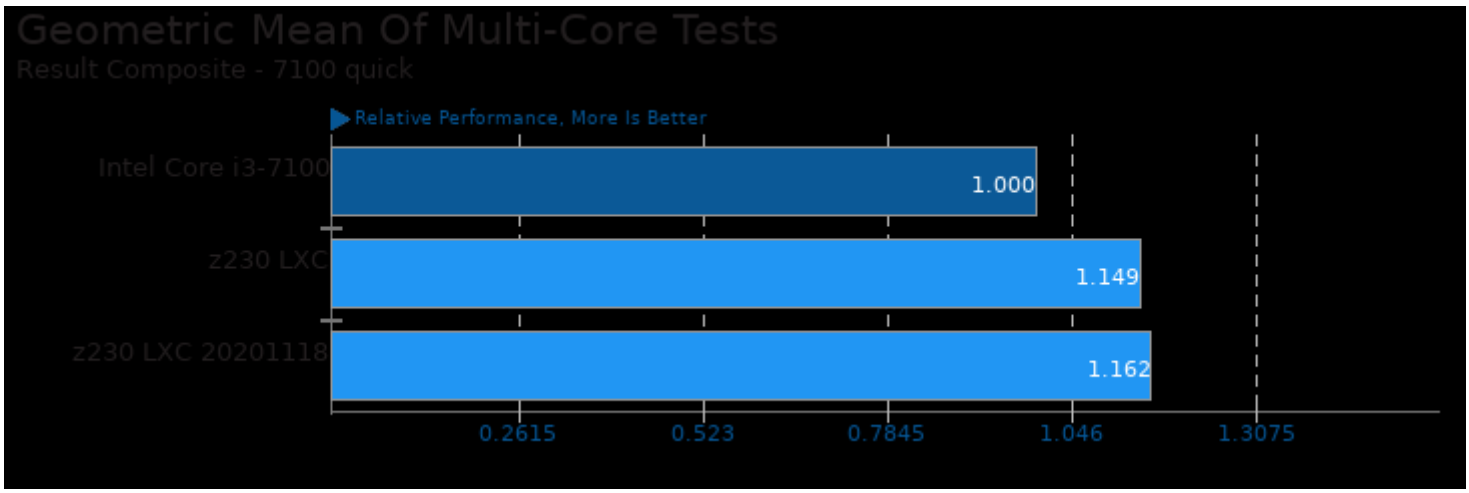
These geometric means are based upon test groupings / test suites for this result file.




Geometric mean based upon tests: pts/compress-zstd and pts/blosc

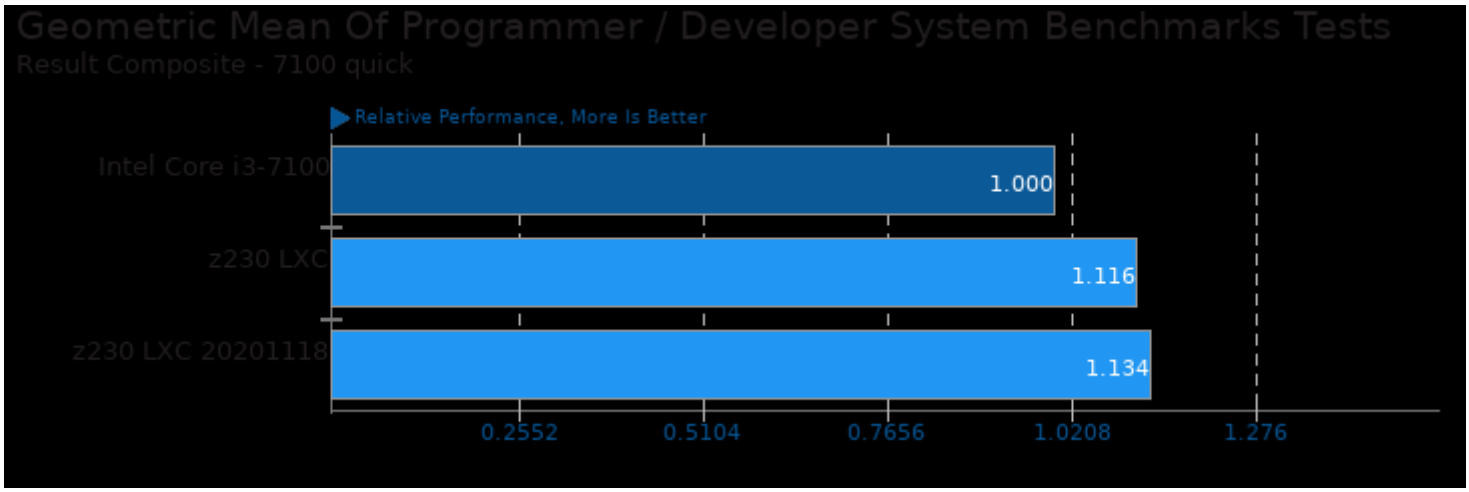



Geometric mean based upon tests: pts/compress-zstd and pts/rodinia

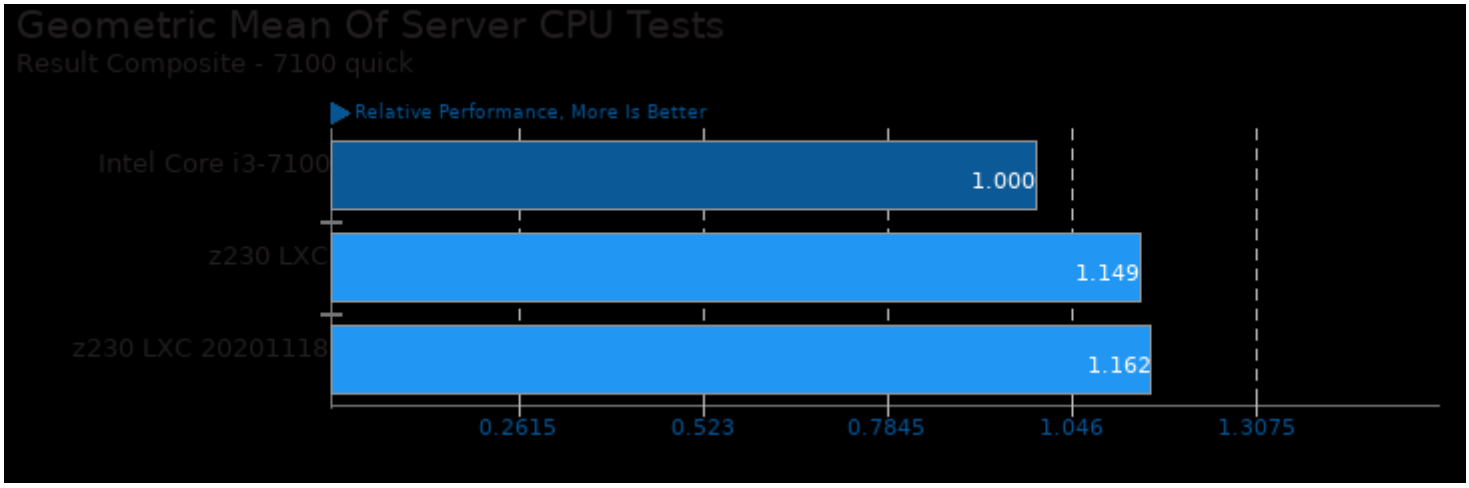



Geometric mean based upon tests: pts/rodinia and pts/compress-zstd

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Geometric mean based upon tests: pts/blosc and pts/compress-zstd




Geometric mean based upon tests: pts/rodinia and pts/compress-zstd

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:53.*