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## 7100 quick

Ixc 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

## 7100 quick

```
--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/swaps 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 swaps barriers + spectre\_v2: Vulnerable STIBP: disabled + srbs: 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

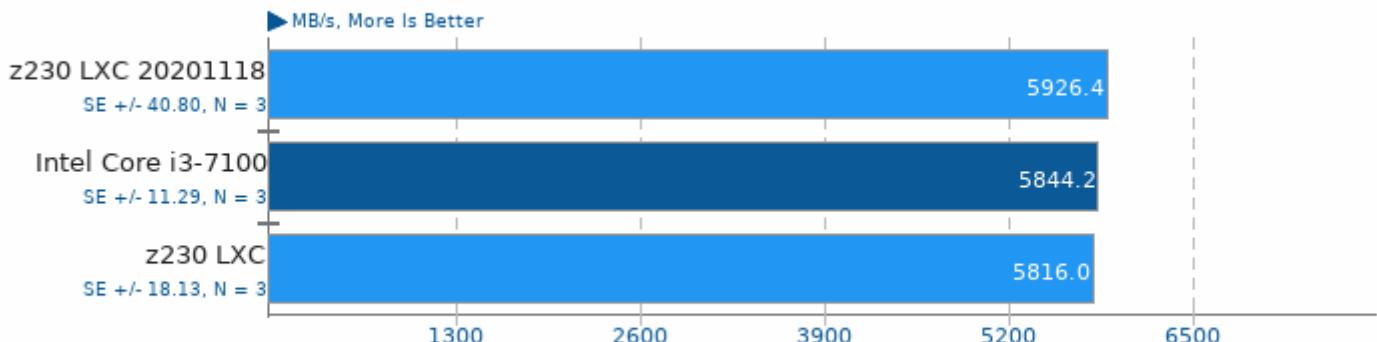
Security Notes: itlb\_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec\_store\_bypass: Vulnerable + spectre\_v1: Vulnerable: \_\_user pointer sanitization and usercopy barriers only; no swaps barriers + spectre\_v2: Vulnerable IBPB: disabled STIBP: disabled + srbs: Vulnerable + tsx\_async\_abort: Not affected

	Intel Core i3-7100	z230 LXC	z230 LXC 20201118
<b>C-Blosc - blosclz (MB/s)</b>	<b>5844</b>	<b>5816</b>	<b>5926</b>
Normalized	98.61%	98.14%	100%
Standard Deviation	0.3%	0.5%	1.2%
<b>Rodinia - OpenMP HotSpot3D (sec)</b>	<b>144.374</b>	<b>132.999</b>	<b>132.466</b>
Normalized	91.75%	99.6%	100%
Standard Deviation	0.3%	0.3%	0.2%
<b>Zstd Compression - 3 (MB/s)</b>	<b>1523</b>	<b>1703</b>	<b>1679</b>
Normalized	89.4%	100%	98.58%
Standard Deviation	0.7%	0.6%	0.7%

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%

## C-Blosc 2.0 Beta 5

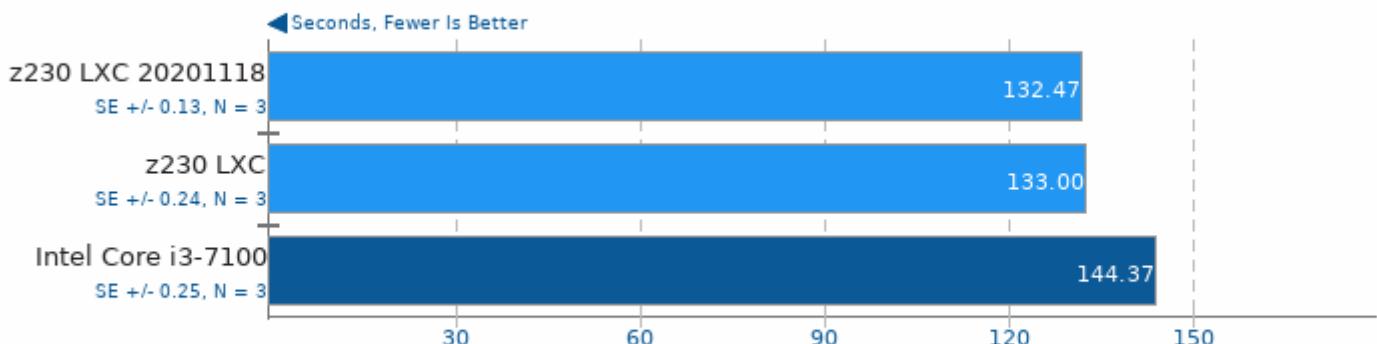
Compressor: blosclz



1. (CXX) g++ options: -rdynamic

## Rodinia 3.1

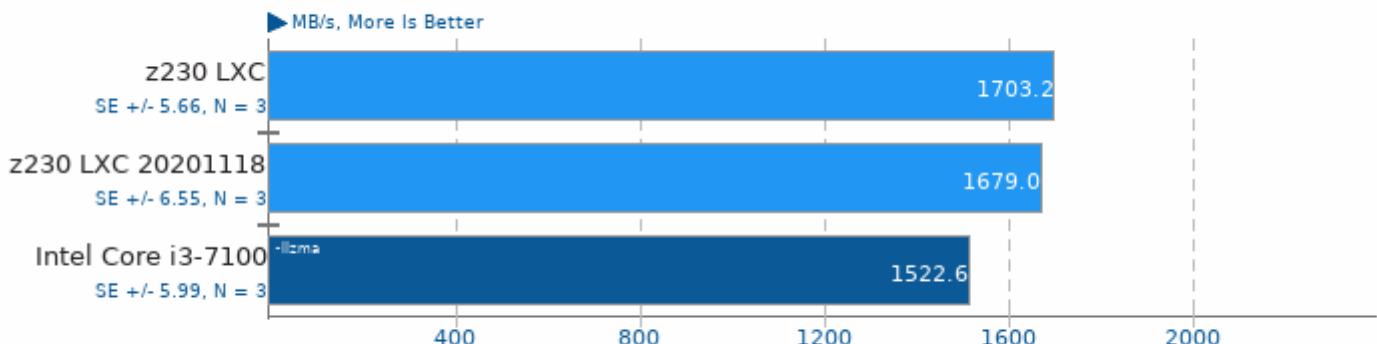
Test: OpenMP HotSpot3D



1. (CXX) g++ options: -O2 -fOpenCL

## Zstd Compression 1.4.5

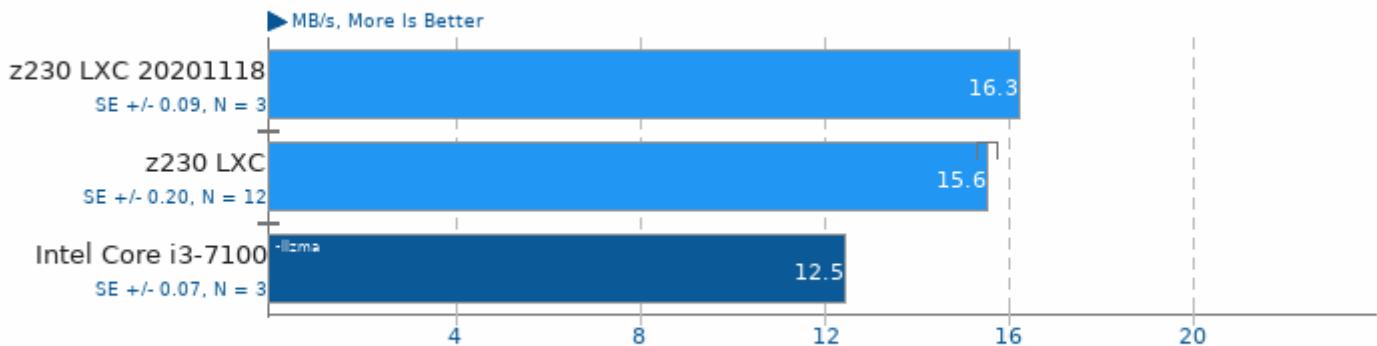
Compression Level: 3



1. (CC) gcc options: -O3 -fthread -lz

## Zstd Compression 1.4.5

Compression Level: 19

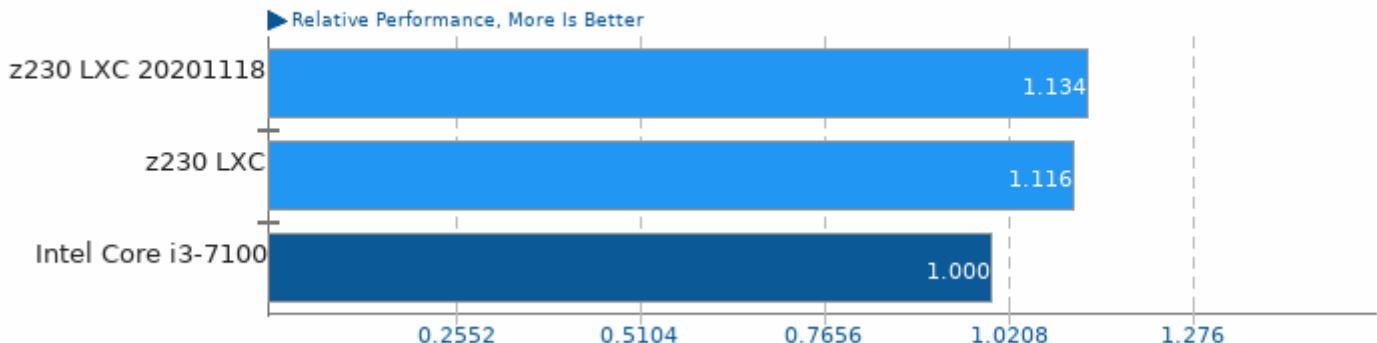


1. (CC) gcc options: -O3 -pthread -lz

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

## Geometric Mean Of Compression Tests

Result Composite - 7100 quick



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

## Geometric Mean Of CPU Massive Tests

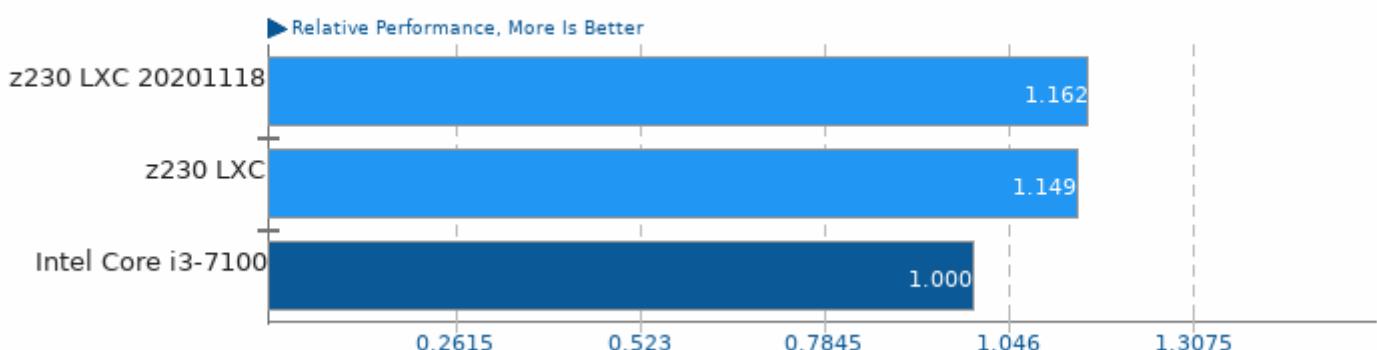
Result Composite - 7100 quick



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

## Geometric Mean Of Multi-Core Tests

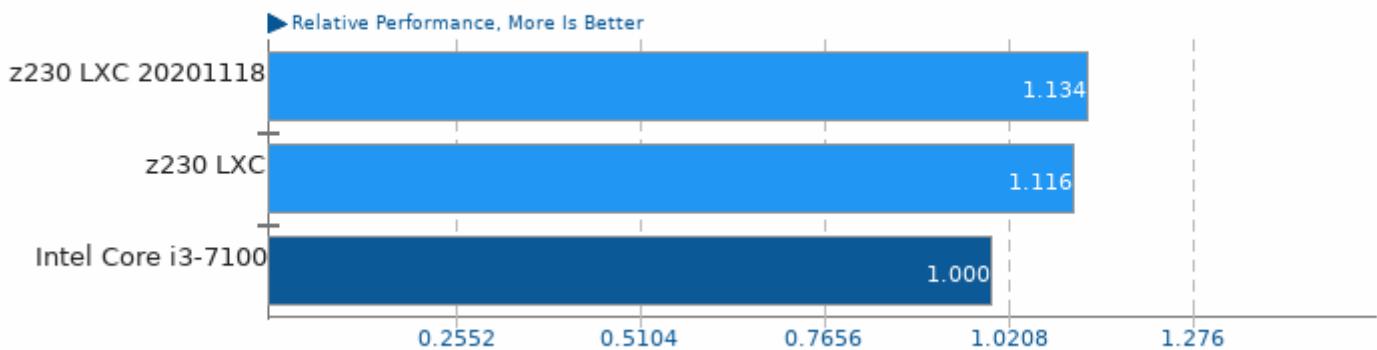
Result Composite - 7100 quick



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

## Geometric Mean Of Programmer / Developer System Benchmarks Tests

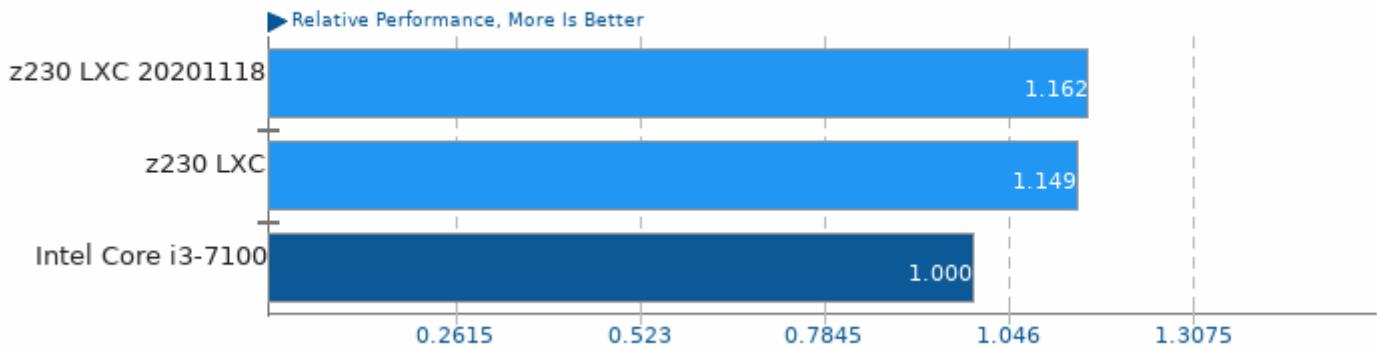
Result Composite - 7100 quick



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

## Geometric Mean Of Server CPU Tests

Result Composite - 7100 quick



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

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Sunday, 18 April 2021 22:22.*