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# test-glibc-bench

KVM testing on CentOS 7.6.1810 via the Phoronix Test Suite.

## Test Systems:

### Intel Xeon Platinum 8163

Processor: Intel Xeon Platinum 8163 (2 Cores / 4 Threads), Motherboard: Alibaba Cloud ECS (8c24b4c BIOS), Chipset: Intel 440FX 82441FX PMC, Memory: 1 x 8192 MB RAM, Disk: 99GB, Graphics: Cirrus Logic GD 5446, Network: Red Hat Virtio device

OS: CentOS 7.6.1810, Kernel: 3.10.0-957.21.3.el7.x86_64 (x86_64), Compiler: GCC 9.3.1 20200408, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/opt/rh/devtoolset-9/root/usr/share/man --with-arch_32=x86-64 --with-default-libstdcxx-abi=gcc4-compatible --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic
Processor Notes: CPU Microcode: 0x1
Security Notes: l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI +

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spec_store_bypass: Vulnerable + spectre_v1: Mitigation of Load fences __user pointer sanitization + spectre_v2: Vulnerable: Retpoline on Skylake+ IBPB

| | Intel Xeon Platinum 8163 |
|---|---|
| **glibc bench - cos (nanoseconds)** | 47267 |
| **Standard Deviation** | 0.1% |
| **glibc bench - exp (nanoseconds)** | 36524 |
| **Standard Deviation** | 0.1% |
| **glibc bench - ffs (nanoseconds)** | 3.02022 |
| **Standard Deviation** | 0.2% |
| **glibc bench - sin (nanoseconds)** | 47299 |
| **Standard Deviation** | 0.1% |
| **glibc bench - log2 (nanoseconds)** | 14.1766 |
| **Standard Deviation** | 0.1% |
| **glibc bench - modf (nanoseconds)** | 3.38865 |
| **Standard Deviation** | 0% |
| **glibc bench - sinh (nanoseconds)** | 22.1846 |
| **Standard Deviation** | 0.2% |
| **glibc bench - sqrt (nanoseconds)** | 3.02099 |
| **Standard Deviation** | 0.1% |
| **glibc bench - tanh (nanoseconds)** | 22.1346 |
| **Standard Deviation** | 2.6% |
| **glibc bench - asinh (nanoseconds)** | 31.5411 |
| **Standard Deviation** | 0% |
| **glibc bench - atanh (nanoseconds)** | 19.5154 |
| **Standard Deviation** | 0.3% |
| **glibc bench - ffsll (nanoseconds)** | 3.01767 |
| **Standard Deviation** | 0.2% |
| **glibc bench - sincos (nanoseconds)** | 46935 |
| **Standard Deviation** | 0.1% |
| **glibc bench - pthread_once (nanoseconds)** | 3.01389 |
| **Standard Deviation** | 0.1% |

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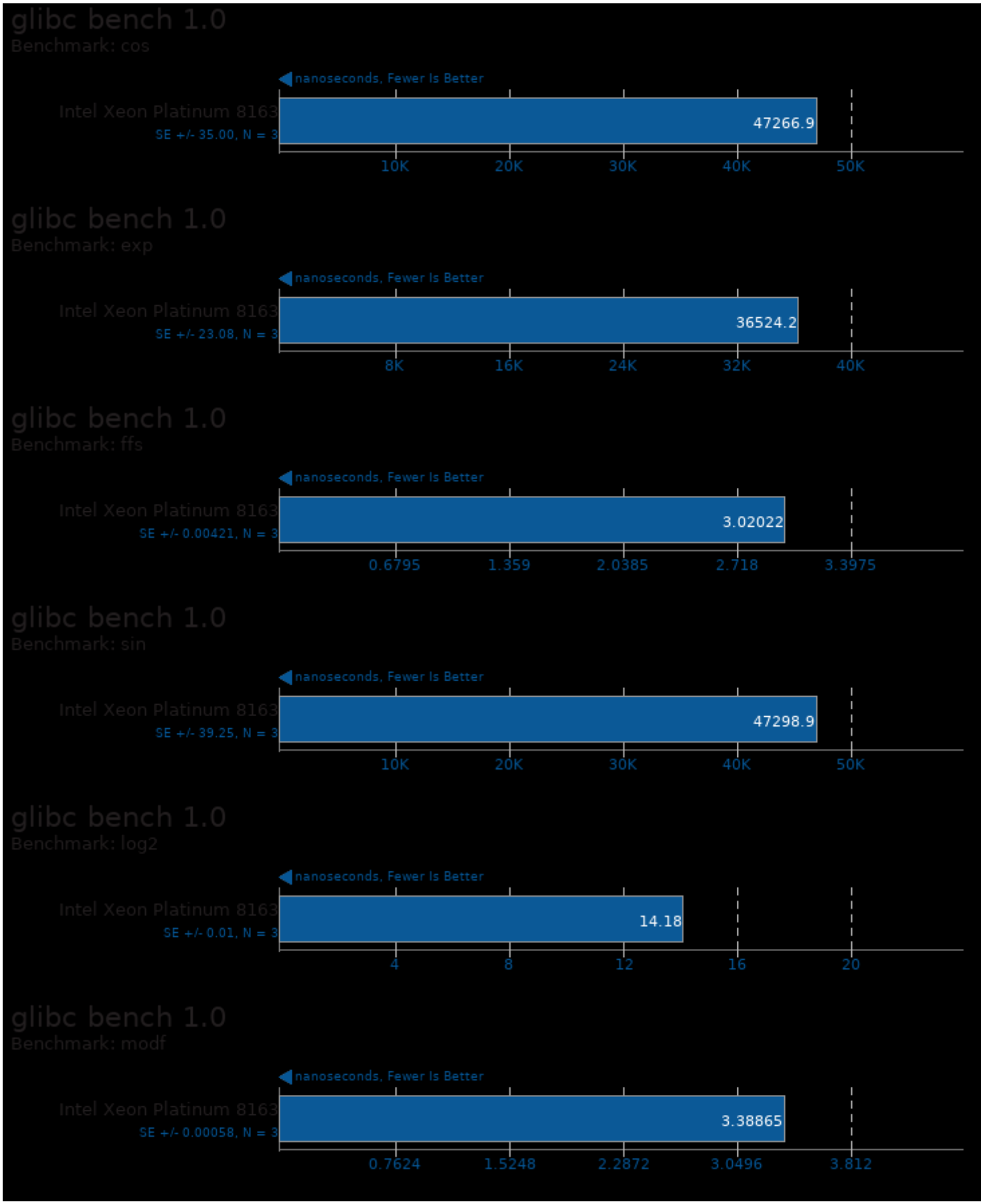

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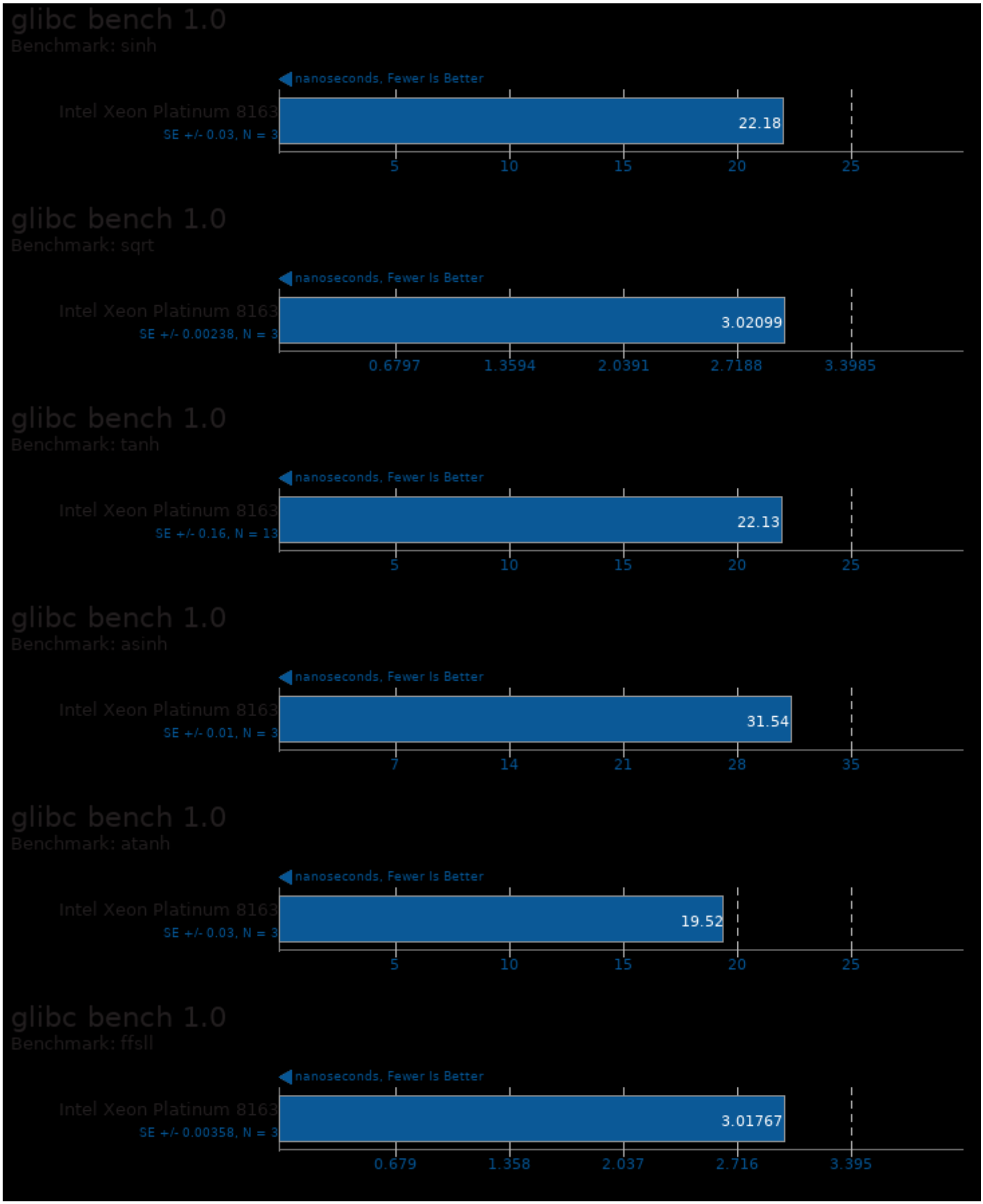

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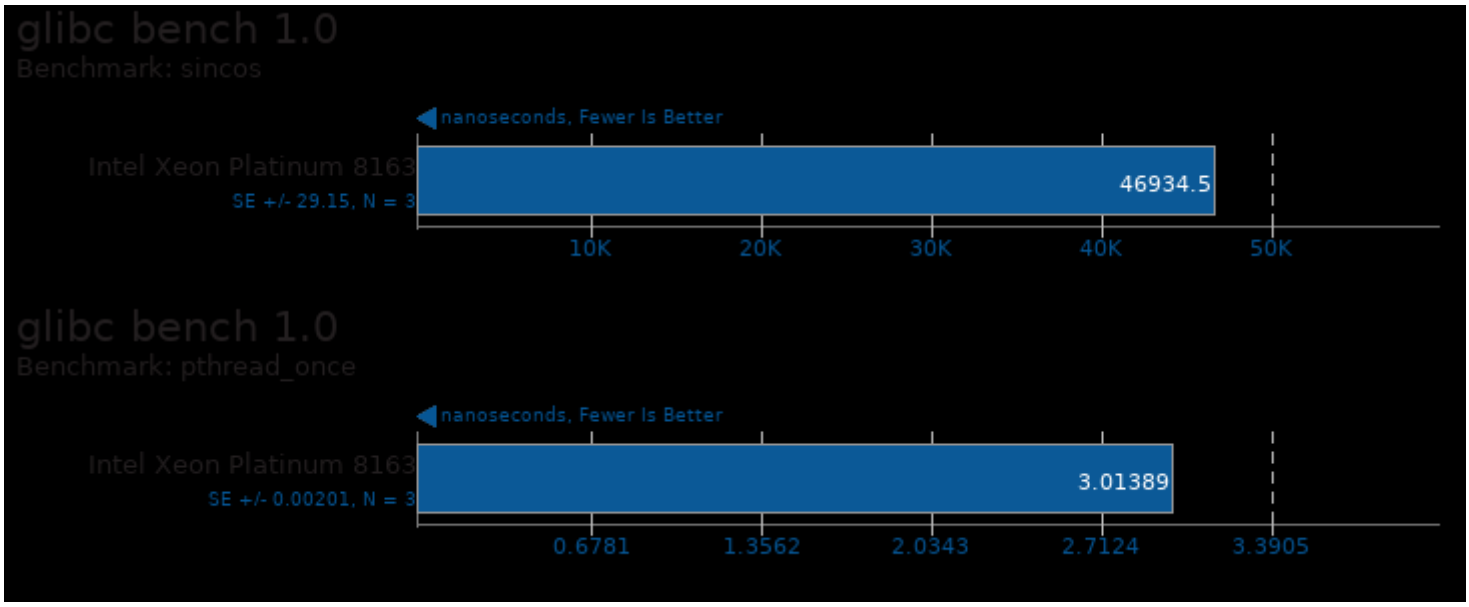


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