


www.phoronix-test-suite.com

# test4

Intel Core i7-3770S testing with a ASRock Z77 Extreme4 (P2.80 BIOS) and MSI NVIDIA GeForce GTX 1060 6GB on Ubuntu 19.10 via the Phoronix Test Suite.

## Test Systems:

### Intel Core i7-3770S

Processor: Intel Core i7-3770S @ 4.30GHz (4 Cores / 8 Threads), Motherboard: ASRock Z77 Extreme4 (P2.80 BIOS), Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 32768MB, Disk: 2 x 480GB SanDisk SDSSDA48 + 240GB SanDisk SDSSDX24, Graphics: MSI NVIDIA GeForce GTX 1060 6GB (139/405MHz), Audio: Realtek ALC898, Monitor: 43S405, Network: Broadcom NetLink BCM57781 PCIe

OS: Ubuntu 19.10, Kernel: 5.3.0-24-generic (x86_64), Desktop: GNOME Shell 3.34.1, Display Server: X Server 1.20.5, Display Driver: NVIDIA 435.21, Compiler: GCC 9.2.1 20191008, File-System: ext4, Screen Resolution: 3840x2160

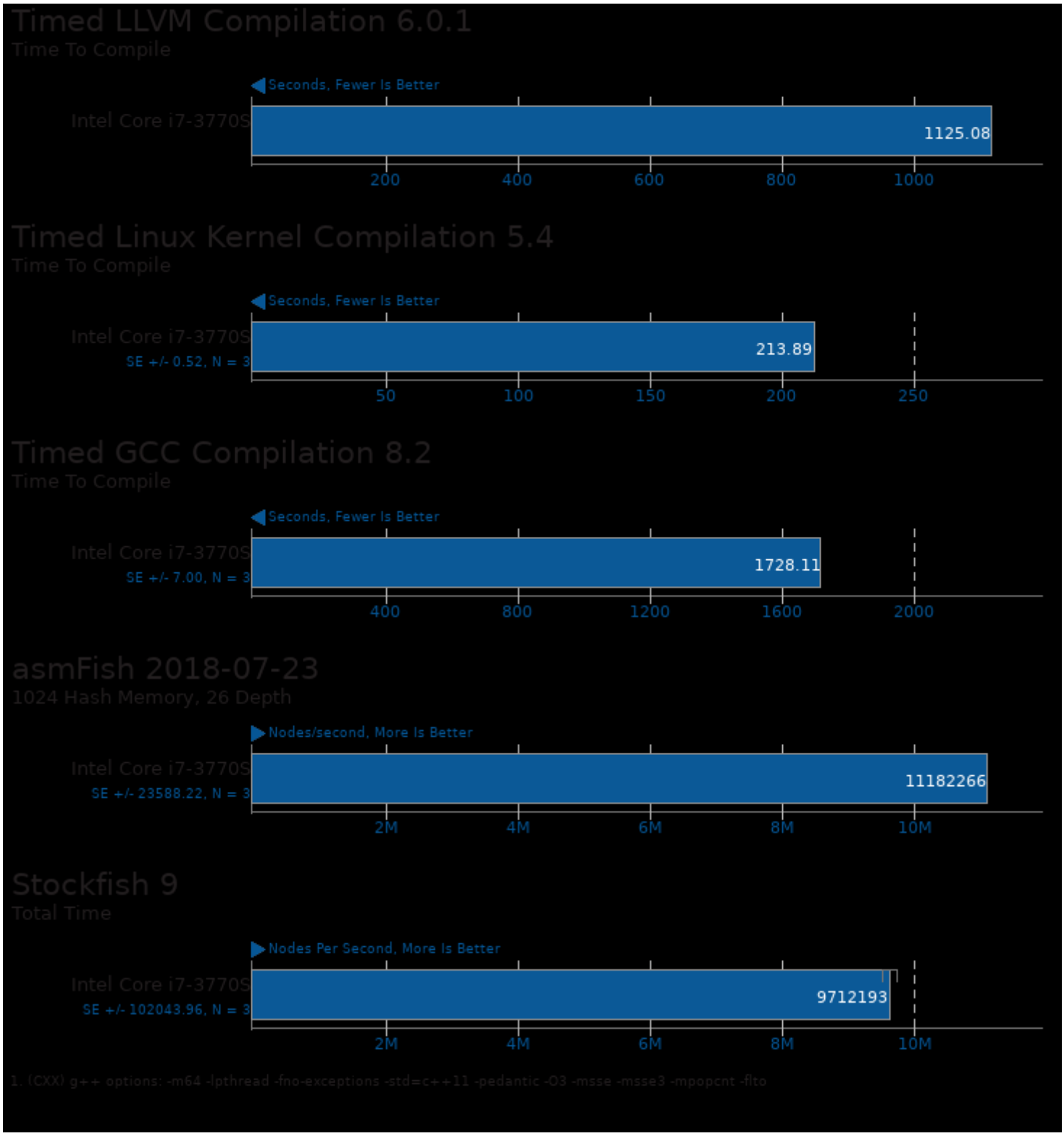
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-offload-targets=nvptx-none,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu

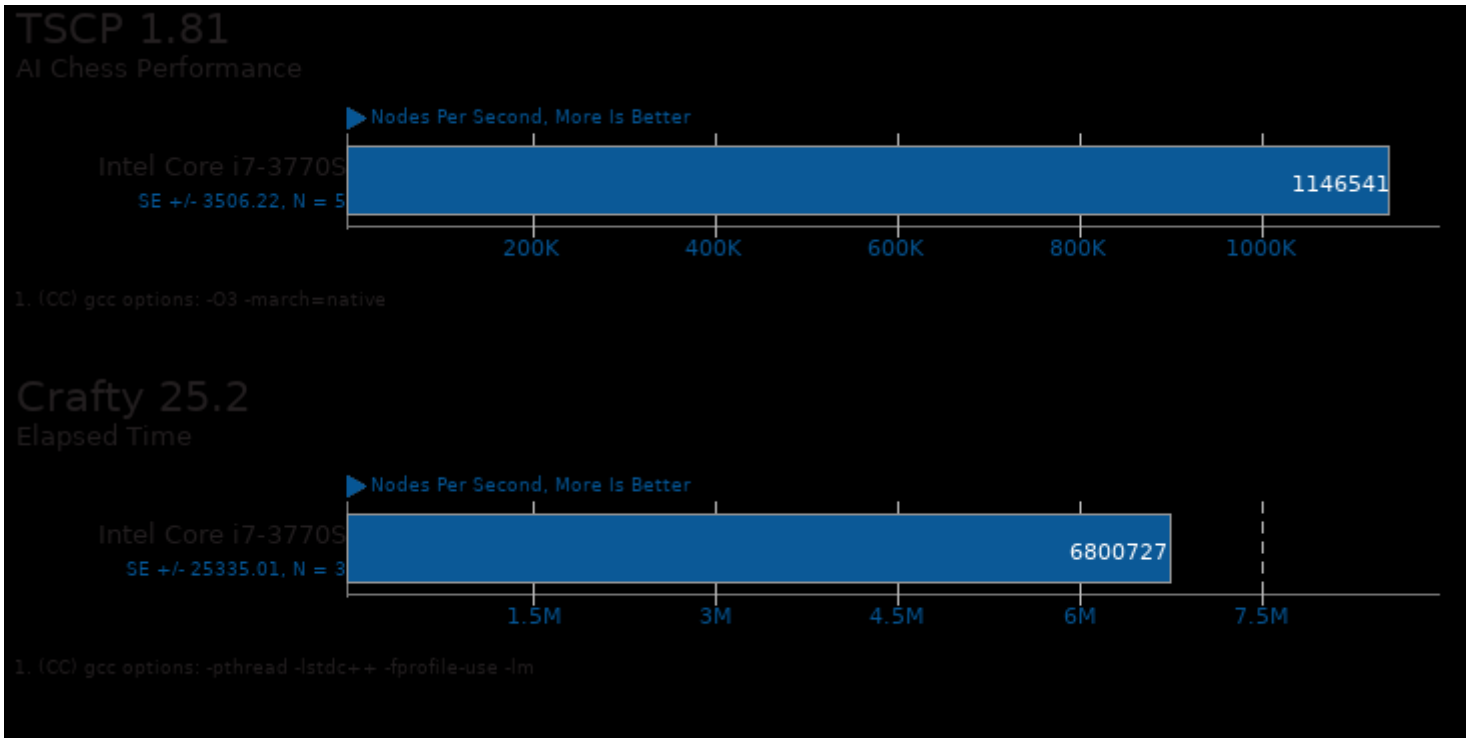
# test4

--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: 0x21
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

| | Intel Core i7-3770S |
|---|---|
| **Timed LLVM Compilation - Time To Compile (sec)** | 1125 |
| **Timed Linux Kernel Compilation - Time To Compile (sec)** | 213.892 |
| **Standard Deviation** | 0.4% |
| **Timed GCC Compilation - Time To Compile (sec)** | 1728 |
| **Standard Deviation** | 0.7% |
| **asmFish - 1.H.M.2.D (Nodes/s)** | 11182266 |
| **Standard Deviation** | 0.4% |
| **Stockfish - Total Time (Nodes/s)** | 9712193 |
| **Standard Deviation** | 1.8% |
| **TSCP - A.C.P (Nodes/s)** | 1146541 |
| **Standard Deviation** | 0.7% |
| **Crafty - Elapsed Time (Nodes/s)** | 6800727 |
| **Standard Deviation** | 0.6% |

# test4


Timed LLVM Compilation 6.0.1
Time To Compile
Seconds, Fewer Is Better
Intel Core i7-3770S
1125.08
200
400
600
800
1000
Timed Linux Kernel Compilation 5.4
Time To Compile
Seconds, Fewer Is Better
Intel Core i7-3770S
SE +/- 0.52, N = 3
213.89
50
100
150
200
250
Timed GCC Compilation 8.2
Time To Compile
Seconds, Fewer Is Better
Intel Core i7-3770S
SE +/- 7.00, N = 3
1728.11
400
800
1200
1600
2000
asmFish 2018-07-23
1024 Hash Memory, 26 Depth
Nodes/second, More Is Better
Intel Core i7-3770S
SE +/- 23588.22, N = 3
11182266
2M
4M
6M
8M
10M
Stockfish 9
Total Time
Nodes Per Second, More Is Better
Intel Core i7-3770S
SE +/- 102043.96, N = 3
9712193
2M
4M
6M
8M
10M
1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -flto




*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 20:35.*