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Ray Tracing, Chess Benchmarks CXL

2 x Intel Xeon Platinum 8280 testing with a GIGABYTE MD61-SC2-00 v01000100 (T15 BIOS) and ASPEED Family on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

2 x Intel Xeon Platinum 8280

Processor: 2 x Intel Xeon Platinum 8280 @ 4.00GHz (56 Cores / 112 Threads), Motherboard: GIGABYTE MD61-SC2-00 v01000100 (T15 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 12 x 32 GB DDR4-2933MT/s HMA84GR7CJR4N-WM, Disk: Samsung SSD 970 PRO 512GB, Graphics: ASPEED Family, Monitor: VE228, Network: 2 x Intel X722 for 1GbE + 2 x QLogic FastLinQ QL41000 10/25/40/50GbE

OS: Ubuntu 18.04, Kernel: 4.18.0-16-generic (x86_64), Desktop: GNOME Shell 3.28.3, Display Server: X Server, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix

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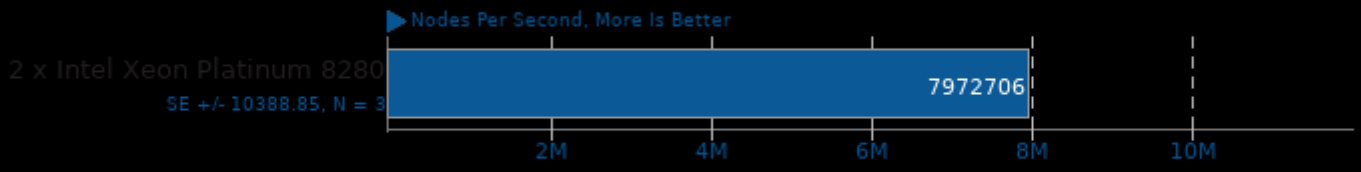
--host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave
Security Notes: __user pointer sanitization + Enhanced IBRS IBPB STIBP + SSB disabled via prctl and seccomp

	2 x Intel Xeon Platinum 8280
Crafty - Elapsed Time (Nodes/s)	7972706
Standard Deviation	0.2%
TSCP - A.C.P (Nodes/s)	1271426
Standard Deviation	0.3%
Stockfish - Total Time (Nodes/s)	127247804
Standard Deviation	1.3%
asmFish - 1.H.M.2.D (Nodes/s)	134658370
Standard Deviation	2.8%
C-Ray - Total Time - 4.1.R.P.P (sec)	16.32
Standard Deviation	0.7%
POV-Ray - Trace Time (sec)	15.38
Standard Deviation	13.5%
Smallpt - G.I.R.1.S (sec)	3.50
Standard Deviation	12.5%
Tachyon - Total Time (sec)	1.40
Standard Deviation	5.8%

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Crafty 25.2

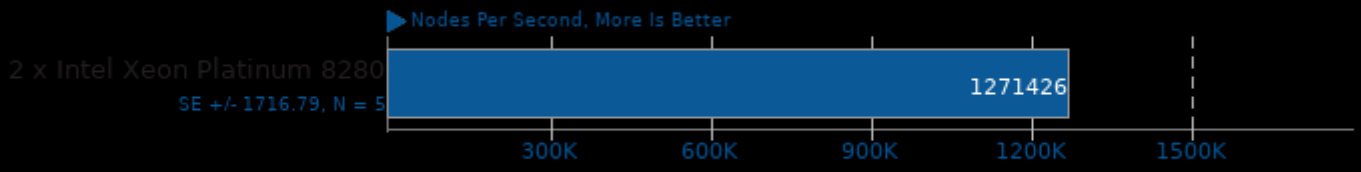
Elapsed Time



1. (CC) gcc options: -pthread -lstdc++ -fprofile-use -lm

TSCP 1.81

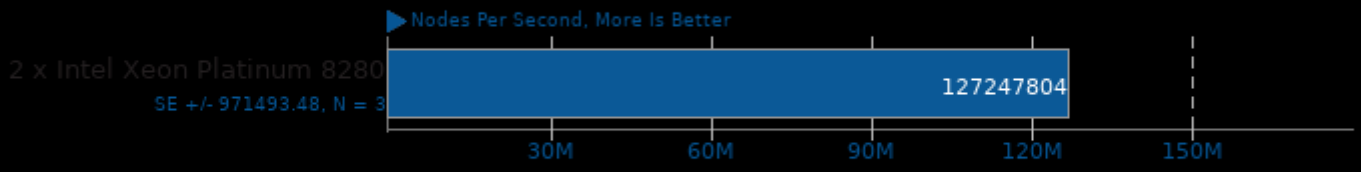
AI Chess Performance



1. (CC) gcc options: -O3 -march=native

Stockfish 9

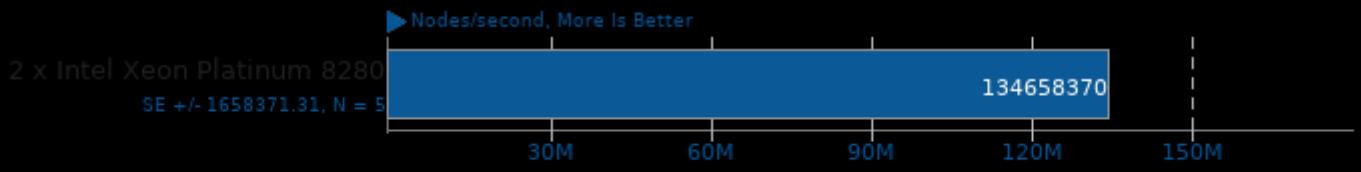
Total Time



1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -flto

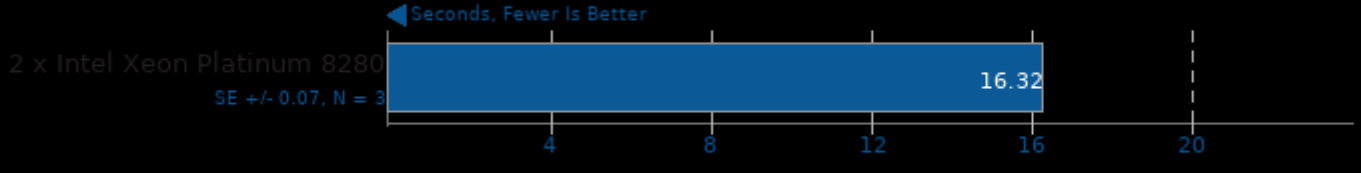
asmFish 2018-07-23

1024 Hash Memory, 26 Depth

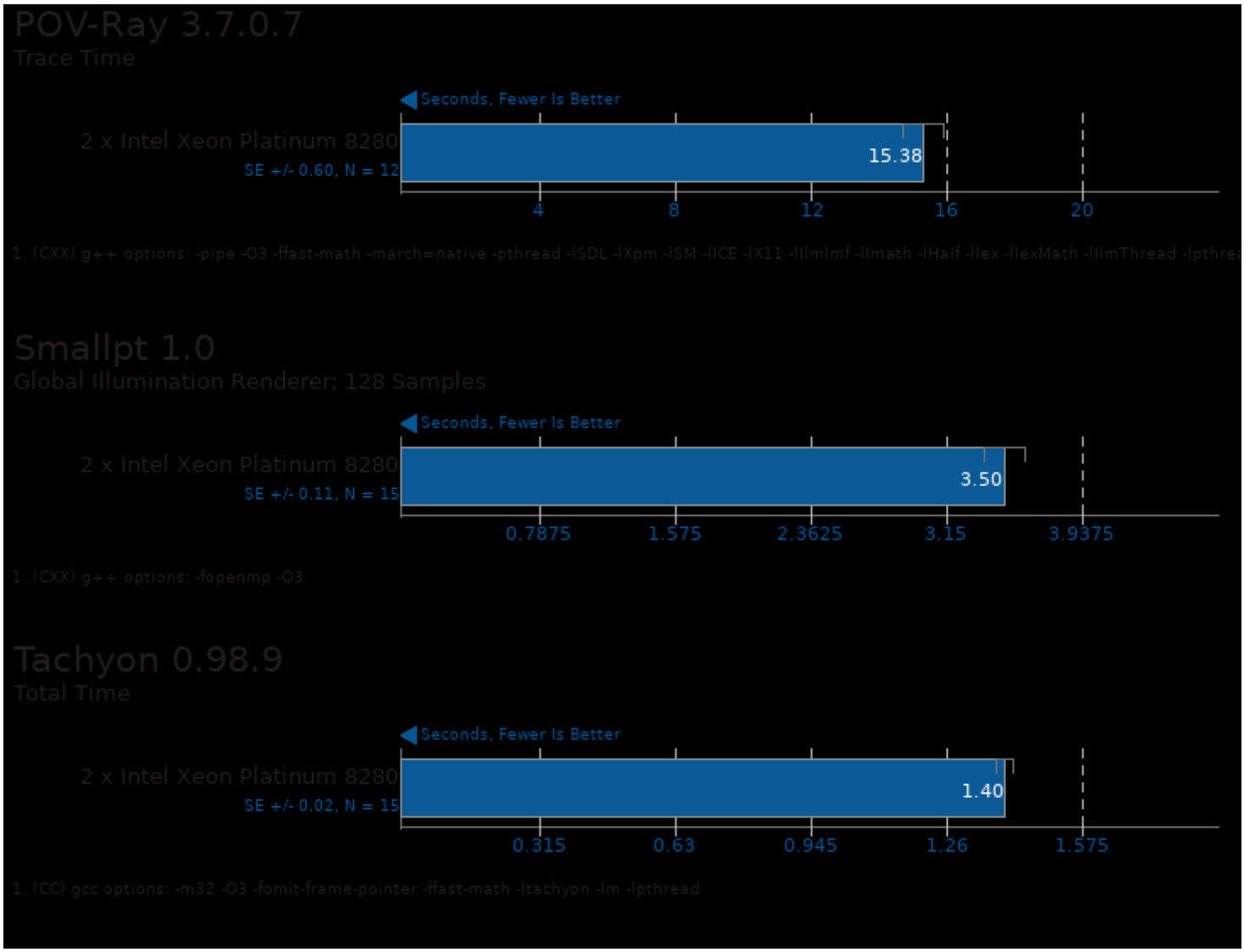


C-Ray 1.1

Total Time - 4K, 16 Rays Per Pixel



1. (CC) gcc options: -lm -lpthread -O3



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