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Intel Core i9-11900K testing with a ASUS ROG MAXIMUS XIII HERO (0707 BIOS) and AMD Radeon VII 16GB on Ubuntu 21.10 via the Phoronix Test Suite.

Test Systems:

Intel Core i9-11900K

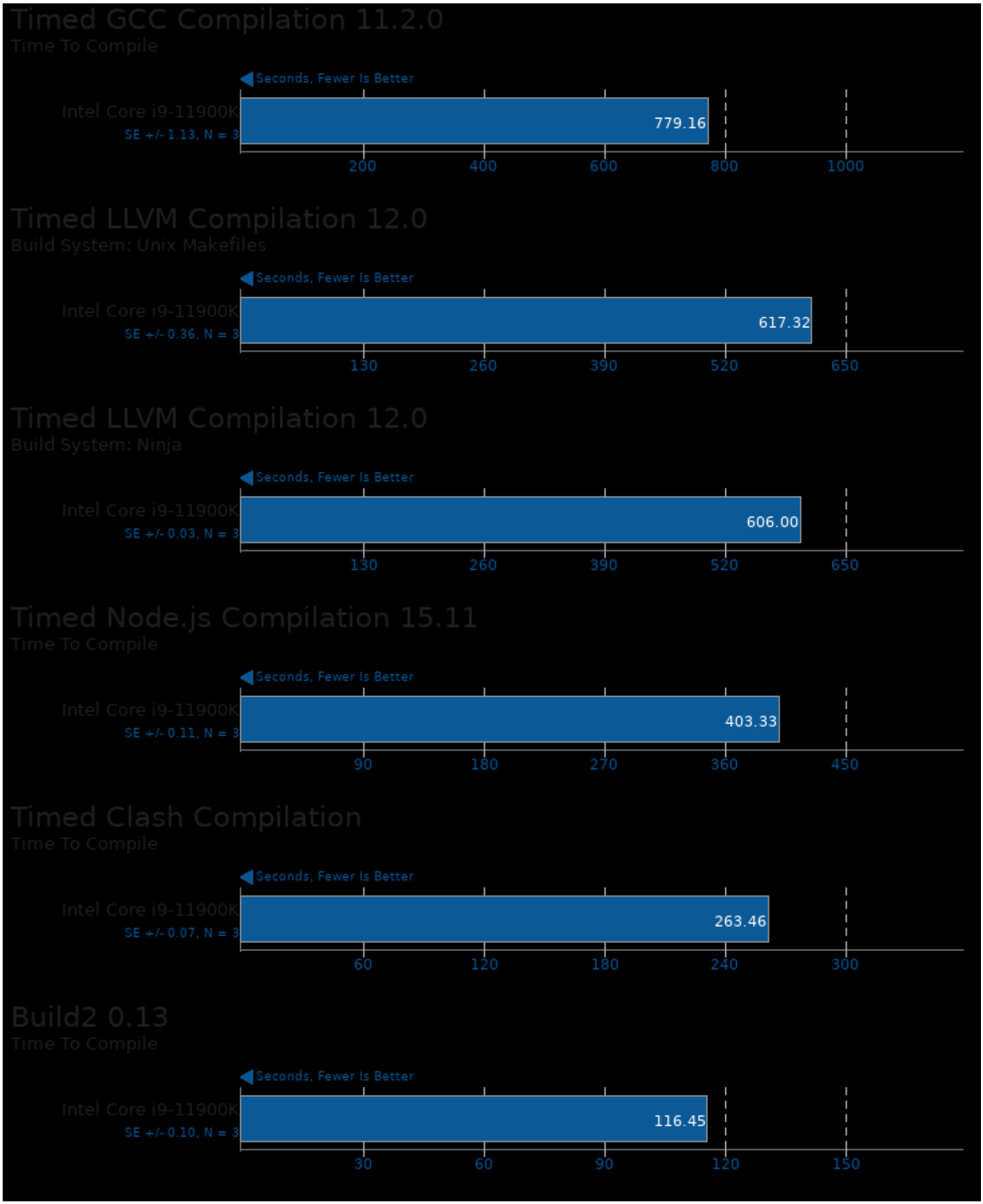
Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0707 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.14.0-phx (x86_64), Desktop: GNOME Shell 40.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.1), Vulkan: 1.2.168, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu

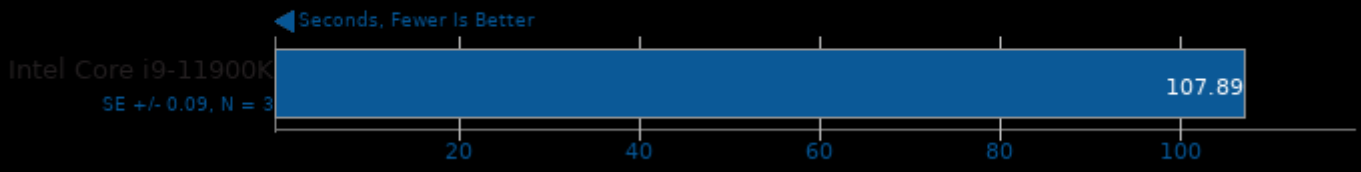
--enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-oNewfI/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-oNewfI/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --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: 0x40 - Thermald 2.4.6
Python Notes: Python 3.9.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Intel Core i9-11900K
Timed GCC Compilation - Time To Compile (sec)	779.162
Standard Deviation	0.3%
Timed LLVM Compilation - Unix Makefiles (sec)	617.320
Standard Deviation	0.1%
Timed LLVM Compilation - Ninja (sec)	605.996
Standard Deviation	0%
Timed Node.js Compilation - Time To Compile (sec)	403.334
Standard Deviation	0%
Timed Clash Compilation - Time To Compile (sec)	263.459
Standard Deviation	0%
Build2 - Time To Compile (sec)	116.447
Standard Deviation	0.1%
Timed Godot Game Engine Compilation - Time To Compile (sec)	107.892
Standard Deviation	0.1%
Timed Erlang/OTP Compilation - Time To Compile (sec)	97.369
Standard Deviation	0.2%
Timed Linux Kernel Compilation - Time To Compile (sec)	79.147
Standard Deviation	0.5%
Timed Wasmer Compilation - Time To Compile (sec)	60.455
Standard Deviation	0%
Timed Eigen Compilation - Time To Compile (sec)	55.447
Standard Deviation	0.1%
Timed GDB GNU Debugger Compilation - Time To Compile (sec)	55.115
Standard Deviation	0.2%
Timed PHP Compilation - Time To Compile (sec)	48.541
Standard Deviation	0%
Timed FFmpeg Compilation - Time To Compile (sec)	48.394
Standard Deviation	0.5%
Timed Mesa Compilation - Time To Compile (sec)	45.766
Standard Deviation	0.3%
Timed MPlayer Compilation - Time To Compile (sec)	32.281
Standard Deviation	0.2%
Timed ImageMagick Compilation - Time To Compile (sec)	25.535
Standard Deviation	0.3%
Timed Apache Compilation - Time To Compile (sec)	16.134
Standard Deviation	0.5%


Timed GCC Compilation 11.2.0
Time To Compile
Seconds, Fewer Is Better
Intel Core i9-11900K
SE +/- 1.13, N = 3
779.16
200
400
600
800
1000
Timed LLVM Compilation 12.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
Intel Core i9-11900K
SE +/- 0.36, N = 3
617.32
130
260
390
520
650
Timed LLVM Compilation 12.0
Build System: Ninja
Seconds, Fewer Is Better
Intel Core i9-11900K
SE +/- 0.03, N = 3
606.00
130
260
390
520
650
Timed Node.js Compilation 15.11
Time To Compile
Seconds, Fewer Is Better
Intel Core i9-11900K
SE +/- 0.11, N = 3
403.33
90
180
270
360
450
Timed Clash Compilation
Time To Compile
Seconds, Fewer Is Better
Intel Core i9-11900K
SE +/- 0.07, N = 3
263.46
60
120
180
240
300
Build2 0.13
Time To Compile
Seconds, Fewer Is Better
Intel Core i9-11900K
SE +/- 0.10, N = 3
116.45
30
60
90
120
150

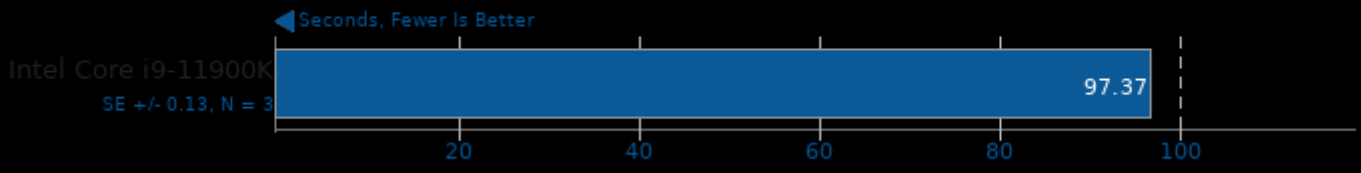
Timed Godot Game Engine Compilation 3.2.3

Time To Compile



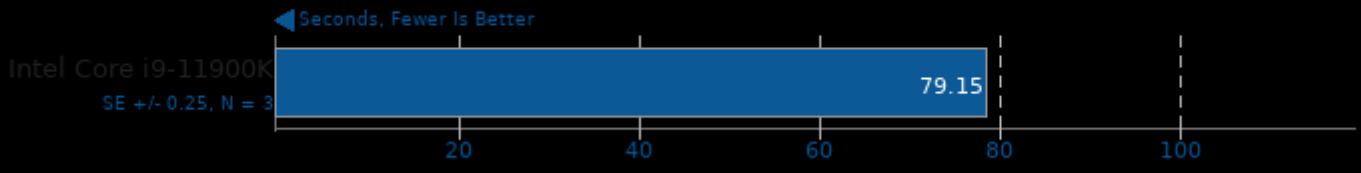
Timed Erlang/OTP Compilation 23.2

Time To Compile



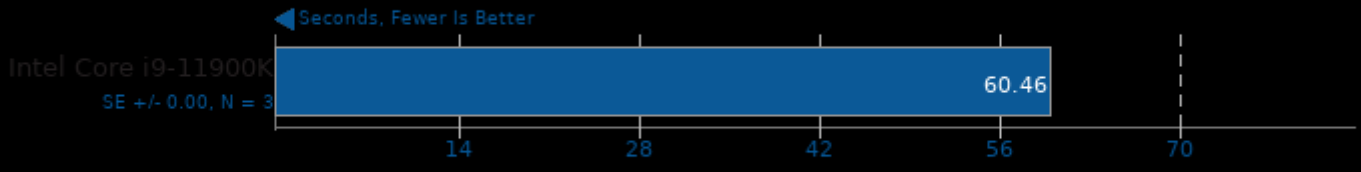
Timed Linux Kernel Compilation 5.14

Time To Compile



Timed Wasmer Compilation 1.0.2

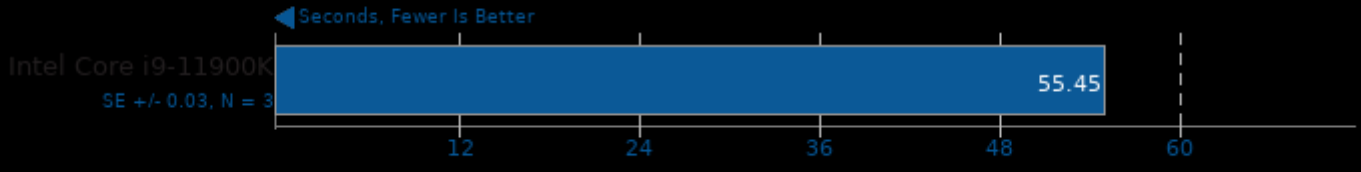
Time To Compile



1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lgcc_s -lutil -lrt -lpthread -lm -lc

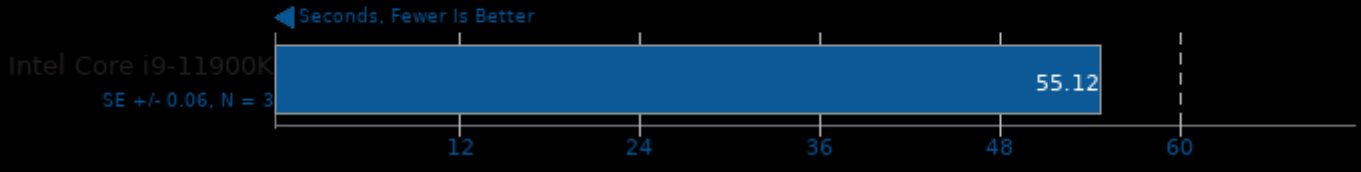
Timed Eigen Compilation 3.3.9

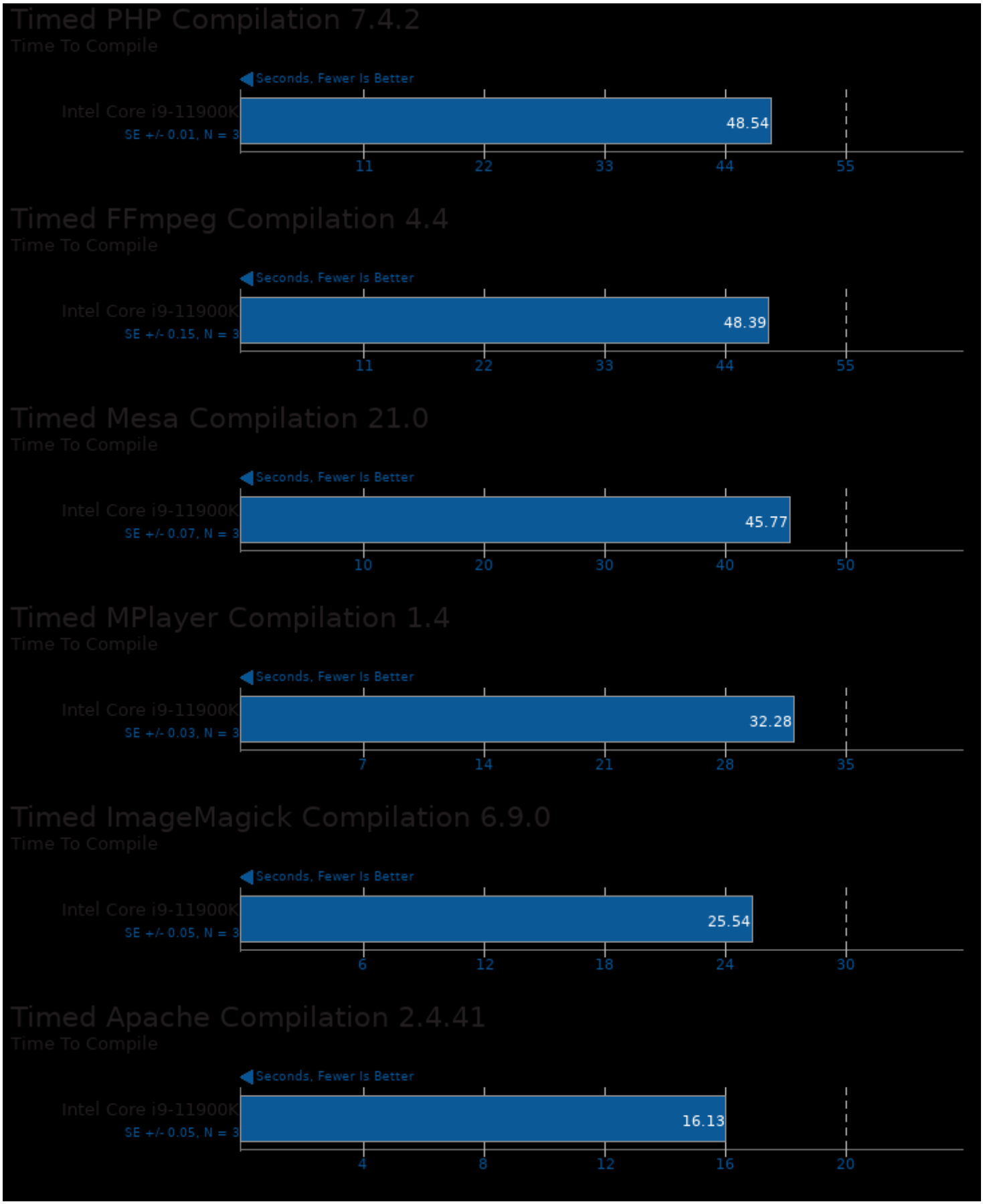
Time To Compile



Timed GDB GNU Debugger Compilation 10.2

Time To Compile





This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024

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