



compilation-suite-0

AMD EPYC 9384X 32-Core testing with a MiTAC Capri V2 (V1.01 0x0 BIOS) and ASPEED on Ubuntu 24.04 via the Phoronix Test Suite.

Test Systems:

AMD EPYC 9384X 32-Core

Processor: AMD EPYC 9384X 32-Core @ 1.50GHz (32 Cores / 64 Threads), Motherboard: MiTAC Capri V2 (V1.01 0x0 BIOS), Chipset: AMD Device 14a4, Memory: 4 x 64 GB DDR5-4800MT/s Samsung M321R8GA0BB0-CQKZJ, Disk: 400GB Micron_7450_MTFDKBA400TFS + 6401GB MTFDKCC6T4TGQ-1BK1DABYY, Graphics: ASPEED, Network: 4 x Intel X710 for 10GbE SFP+

OS: Ubuntu 24.04, Kernel: 6.8.0-45-generic (x86_64), Compiler: GCC 13.2.0, File-System: ext4, Screen Resolution: 1920x1200

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-backtrace

```
--enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-defaulted
--enable-offload-targets=nvptx-none=/build/gcc-13-uJ7kn6/gcc-13-13.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-13-uJ7kn6/gcc-13-13.2.0/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-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: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa101244

Python Notes: Python 3.12.3

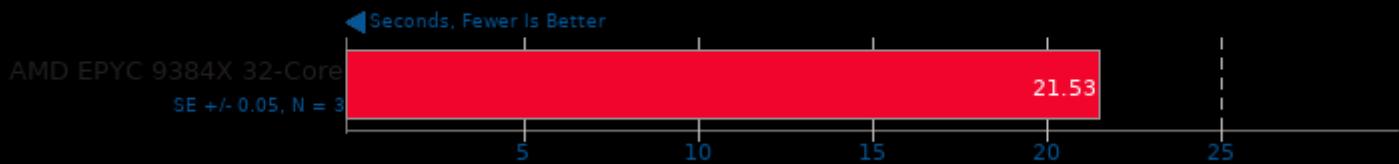
Security Notes: gather_data_sampling: Not affected + itlb_multihit: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + reg_file_data_sampling: Not affected + rebleed: Not affected + spec_rstack_overflow: Mitigation of Safe RET + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced / Automatic IBRS; IBPB: conditional; STIBP: always-on; RSB filling; PBRSB-eIBRS: Not affected; BHI: Not affected + srbs: Not affected + tsx_async_abort: Not affected

AMD EPYC 9384X 32-Core

Timed Apache Compilation - Time To Compile (sec)	21.531
Standard Deviation	0.4%
Timed FFmpeg Compilation - Time To Compile (sec)	29.813
Standard Deviation	0.4%
Timed GCC Compilation - Time To Compile (sec)	902.475
Standard Deviation	0.4%
Timed GDB GNU Debugger Compilation - Time To Compile (sec)	50.392
Standard Deviation	1.7%
Timed Gem5 Compilation - Time To Compile (sec)	254.972
Standard Deviation	0.1%
Timed Godot Game Engine Compilation - Time To Compile (sec)	148.008
Standard Deviation	0.2%
Timed ImageMagick Compilation - Time To Compile (sec)	14.855
Standard Deviation	2.1%
Timed Linux Kernel Compilation - defconfig (sec)	51.163
Standard Deviation	2.3%
Timed Linux Kernel Compilation - allmodconfig (sec)	549.252
Standard Deviation	0.1%
Timed LLVM Compilation - Ninja (sec)	256.213
Standard Deviation	0.6%
Timed LLVM Compilation - Unix Makefiles (sec)	321.559
Standard Deviation	1.2%
Timed Mesa Compilation - Time To Compile (sec)	18.845
Standard Deviation	1.5%
Timed Node.js Compilation - Time To Compile (sec)	283.333
Standard Deviation	2.5%
Timed PHP Compilation - Time To Compile (sec)	45.650
Standard Deviation	0.2%
Timed CPython Compilation - Default (sec)	17.749
Timed CPython Compilation - R.B.P.L.O (sec)	253.15
Build2 - Time To Compile (sec)	86.212
Standard Deviation	0.1%
Timed Eigen Compilation - Time To Compile (sec)	79.999
Standard Deviation	0%
Timed Erlang/OTP Compilation - Time To Compile (sec)	74.676
Standard Deviation	0.4%
Timed Wasmer Compilation - Time To Compile (sec)	34.731
Standard Deviation	0.3%

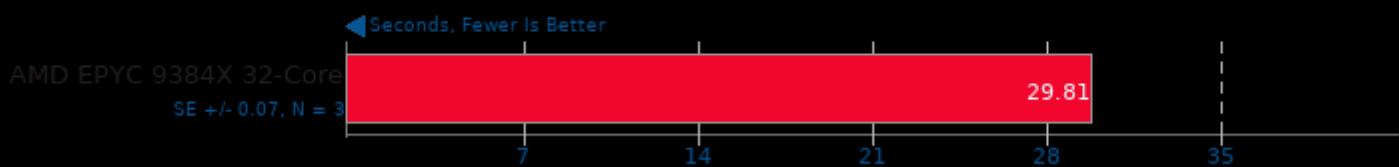
Timed Apache Compilation 2.4.41

Time To Compile



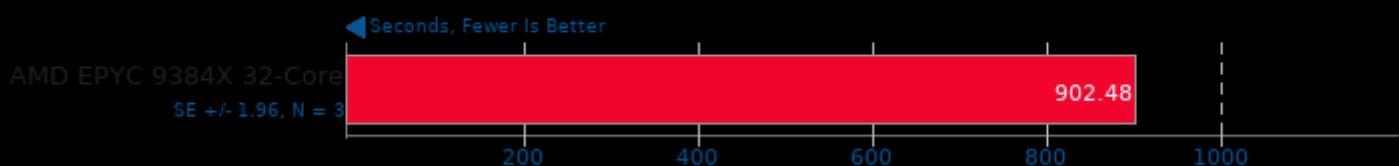
Timed FFmpeg Compilation 7.0

Time To Compile



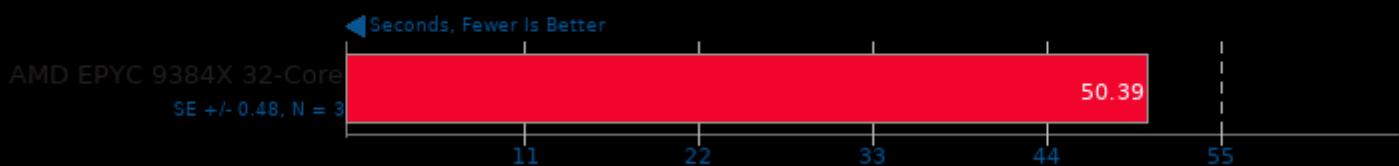
Timed GCC Compilation 13.2

Time To Compile



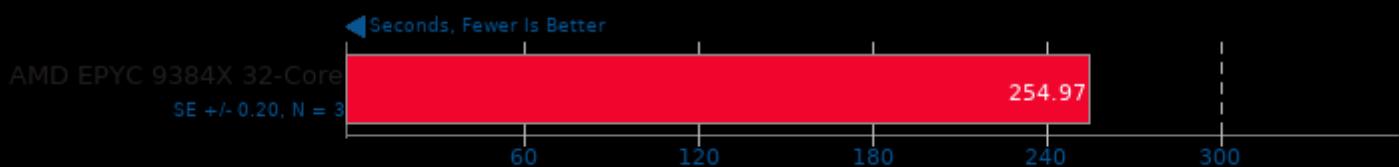
Timed GDB GNU Debugger Compilation 10.2

Time To Compile



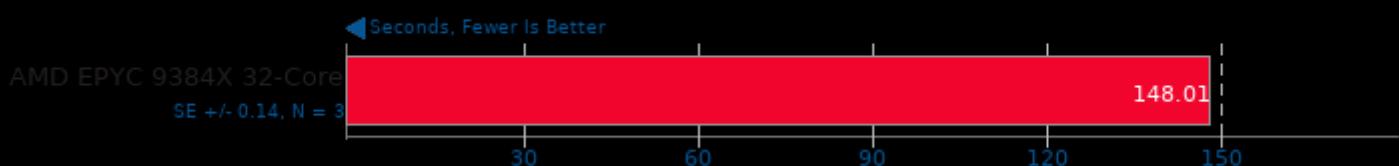
Timed Gem5 Compilation 23.0.1

Time To Compile



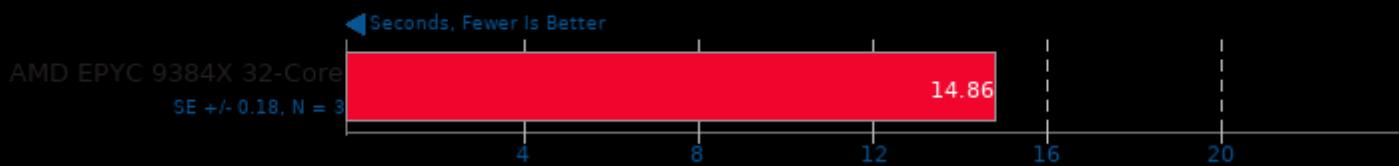
Timed Godot Game Engine Compilation 4.0

Time To Compile



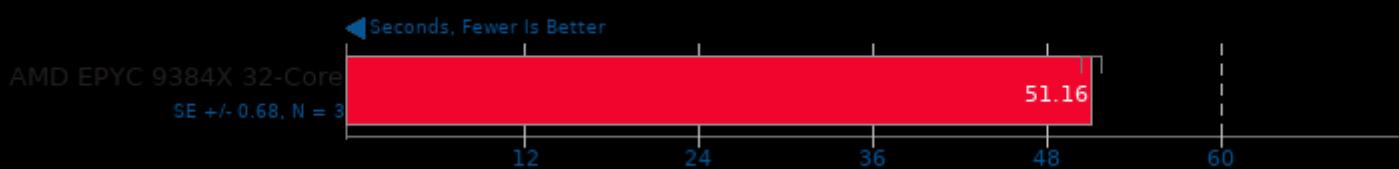
Timed ImageMagick Compilation 6.9.0

Time To Compile



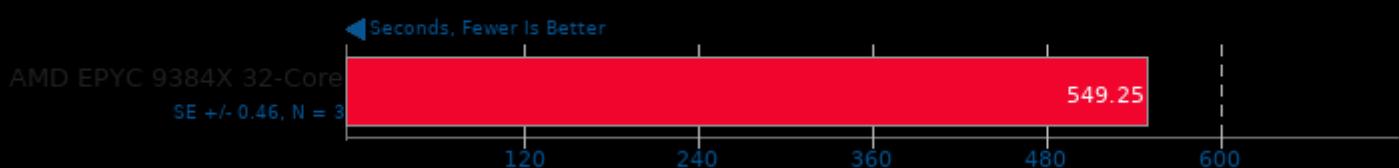
Timed Linux Kernel Compilation 6.8

Build: defconfig



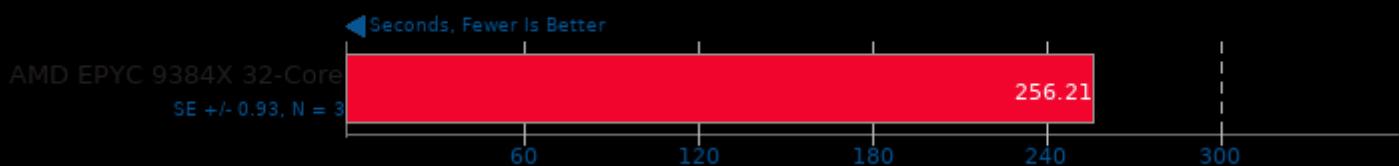
Timed Linux Kernel Compilation 6.8

Build: allmodconfig



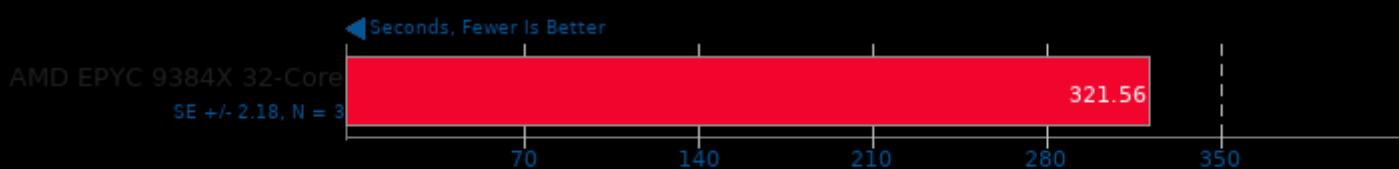
Timed LLVM Compilation 16.0

Build System: Ninja



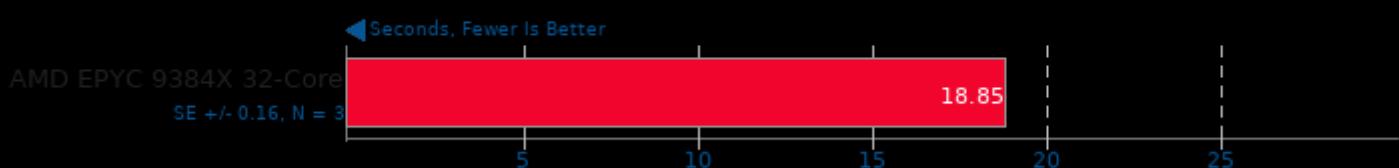
Timed LLVM Compilation 16.0

Build System: Unix Makefiles



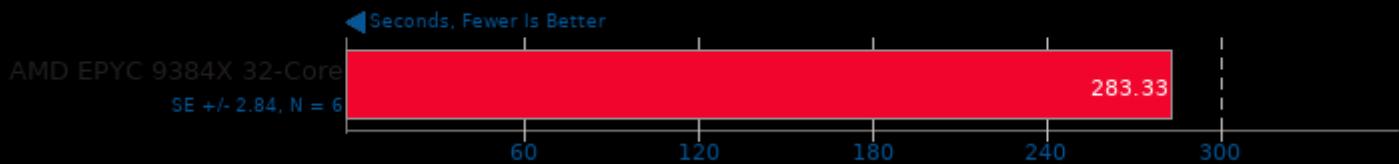
Timed Mesa Compilation 24.0

Time To Compile



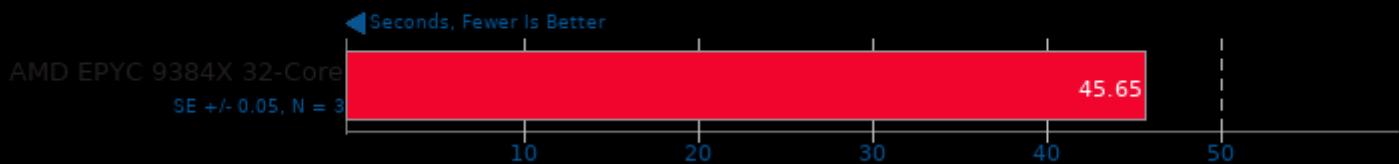
Timed Node.js Compilation 21.7.2

Time To Compile



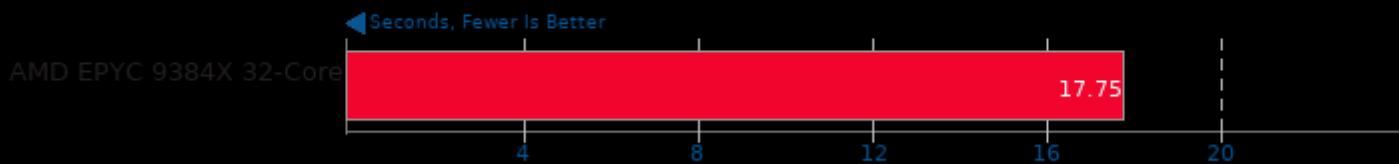
Timed PHP Compilation 8.3.4

Time To Compile



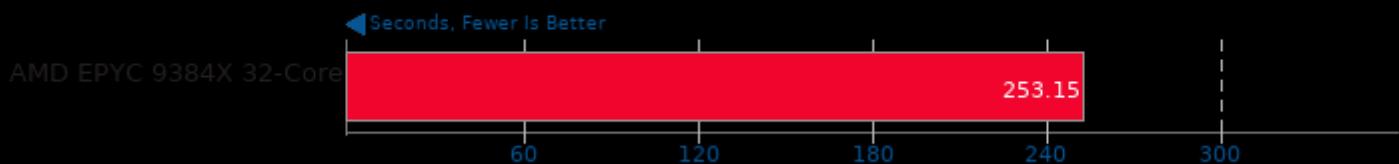
Timed CPython Compilation 3.10.6

Build Configuration: Default



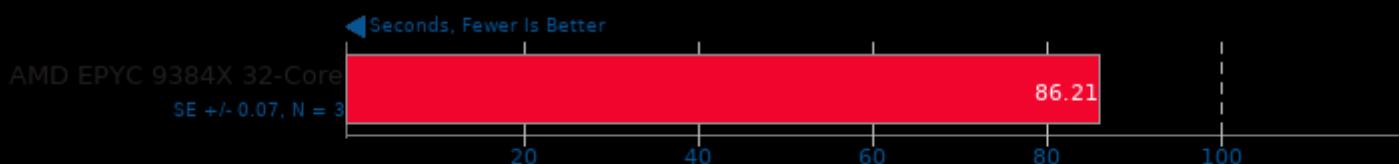
Timed CPython Compilation 3.10.6

Build Configuration: Released Build, PGO + LTO Optimized



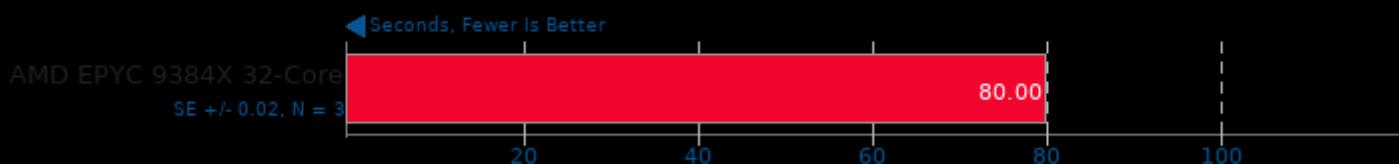
Build2 0.17

Time To Compile



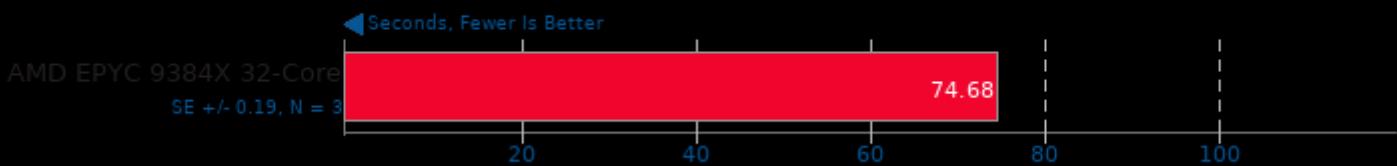
Timed Eigen Compilation 3.3.9

Time To Compile



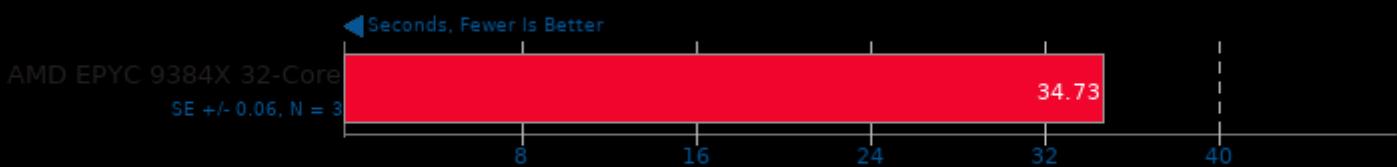
Timed Erlang/OTP Compilation 25.0

Time To Compile



Timed Wasmer Compilation 2.3

Time To Compile



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Sunday, 1 December 2024 15:02.