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pyhpc_result

Docker testing on Ubuntu Jammy Jellyfish via the Phoronix Test Suite.

Test Systems:

all

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: MSI MAG B550M MORTAR (MS-7C94) v1.0 (1.40 BIOS), Memory: 32GB, Disk: 1000GB Western Digital WDS100T3X0C-00SJG0 + 256GB INTEL SSDPEKKF256G8L, Graphics: EFI VGA

OS: Ubuntu Jammy Jellyfish, Kernel: 5.10.0-1051-oem (x86_64), Display Driver: NVIDIA, Vulkan: 1.1.182, Compiler: GCC 11.2.0, File-System: overlayfs, Screen Resolution: 1600x900, System Layer: Docker

Kernel Notes: Transparent Huge Pages: madvise

Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa201009

Python Notes: Python 3.9.8

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 Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

all

PyHPC Benchmarks - CPU - JAX - 16384 - Isoneutral Mixing (sec) 0.002
Standard Deviation 0%
PyHPC Benchmarks - CPU - JAX - 65536 - Equation of State (sec) 0.001
Standard Deviation 0%
PyHPC Benchmarks - CPU - JAX - 65536 - Isoneutral Mixing (sec) 0.012
Standard Deviation 4.1%
PyHPC Benchmarks - CPU - JAX - 262144 - Equation of State (sec) 0.002
Standard Deviation 0%
PyHPC Benchmarks - CPU - JAX - 262144 - Isoneutral Mixing (sec) 0.027
Standard Deviation 2.1%
PyHPC Benchmarks - CPU - JAX - 1048576 - Equation of State (sec) 0.011
Standard Deviation 0%
PyHPC Benchmarks - CPU - JAX - 1048576 - Isoneutral Mixing (sec) 0.144
Standard Deviation 1.8%
PyHPC Benchmarks - CPU - JAX - 4194304 - Equation of State (sec) 0.039
Standard Deviation 0%
PyHPC Benchmarks - CPU - JAX - 4194304 - Isoneutral Mixing (sec) 0.694
Standard Deviation 0.2%
PyHPC Benchmarks - CPU - Numba - 16384 - Equation of State 0.001
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numba - 16384 - Isoneutral Mixing 0.004
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numba - 65536 - Equation of State 0.003
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numba - 65536 - Isoneutral Mixing 0.015
Standard Deviation 3.3%
PyHPC Benchmarks - CPU - Numpy - 16384 - Equation of State 0.002
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numpy - 16384 - Isoneutral Mixing 0.007
Standard Deviation 7.7%
PyHPC Benchmarks - CPU - Numpy - 65536 - Equation of State 0.011
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numpy - 65536 - Isoneutral Mixing 0.026
Standard Deviation 2.2%
PyHPC Benchmarks - CPU - Aesara - 16384 - Equation of State 0.001
Standard Deviation 0%
PyHPC Benchmarks - CPU - Aesara - 16384 - Isoneutral Mixing 0.004
Standard Deviation 0%
PyHPC Benchmarks - CPU - Aesara - 65536 - Equation of State 0.005
Standard Deviation 0%
PyHPC Benchmarks - CPU - Aesara - 65536 - Isoneutral Mixing 0.018
Standard Deviation 2.3%
PyHPC Benchmarks - CPU - Numba - 262144 - Equation of State 0.012
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numba - 262144 - Isoneutral Mixing 0.058
Standard Deviation 2%
PyHPC Benchmarks - CPU - Numpy - 262144 - Equation of State 0.044
Standard Deviation 0%
PyHPC Benchmarks - CPU - Numpy - 262144 - Isoneutral Mixing 0.101
Standard Deviation 0%
PyHPC Benchmarks - CPU - Aesara - 262144 - Equation of State 0.017
Standard Deviation 3.1%

PyHPC Benchmarks - CPU - Aesara - 262144 - Isoneutral Mixing 0.065
Standard Deviation 0.9%

PyHPC Benchmarks - CPU - Numba - 1048576 - Equation of State 0.048
Standard Deviation 2.1%

PyHPC Benchmarks - CPU - Numba - 1048576 - Isoneutral Mixing 0.265
Standard Deviation 2.3%

PyHPC Benchmarks - CPU - Numba - 4194304 - Equation of State 0.192
Standard Deviation 1.8%

PyHPC Benchmarks - CPU - Numba - 4194304 - Isoneutral Mixing 1.144
Standard Deviation 0.2%

PyHPC Benchmarks - CPU - Numpy - 1048576 - Equation of State 0.177
Standard Deviation 1.4%

PyHPC Benchmarks - CPU - Numpy - 1048576 - Isoneutral Mixing 0.452
Standard Deviation 0.8%

PyHPC Benchmarks - CPU - Numpy - 4194304 - Equation of State 1.051
Standard Deviation 0.4%

PyHPC Benchmarks - CPU - Numpy - 4194304 - Isoneutral Mixing 2.033
Standard Deviation 0.1%

PyHPC Benchmarks - CPU - PyTorch - 16384 - Isoneutral Mixing 0.004
Standard Deviation 0%

PyHPC Benchmarks - CPU - PyTorch - 65536 - Equation of State 0.001
Standard Deviation 0%

PyHPC Benchmarks - CPU - PyTorch - 65536 - Isoneutral Mixing 0.015
Standard Deviation 0%

PyHPC Benchmarks - CPU - Aesara - 1048576 - Equation of State 0.068
Standard Deviation 0.8%

PyHPC Benchmarks - CPU - Aesara - 1048576 - Isoneutral Mixing 0.312
Standard Deviation 1.8%

PyHPC Benchmarks - CPU - Aesara - 4194304 - Equation of State 0.271
Standard Deviation 1.8%

PyHPC Benchmarks - CPU - Aesara - 4194304 - Isoneutral Mixing 1.373
Standard Deviation 0.2%

PyHPC Benchmarks - CPU - PyTorch - 262144 - Equation of State 0.004
Standard Deviation 0%

PyHPC Benchmarks - CPU - PyTorch - 262144 - Isoneutral Mixing 0.057
Standard Deviation 0%

PyHPC Benchmarks - CPU - PyTorch - 1048576 - Equation of State 0.018
(sec)
Standard Deviation 5.7%

PyHPC Benchmarks - CPU - PyTorch - 1048576 - Isoneutral Mixing 0.284
(sec)
Standard Deviation 0.5%

PyHPC Benchmarks - CPU - PyTorch - 4194304 - Equation of State 0.077
(sec)
Standard Deviation 2.2%

PyHPC Benchmarks - CPU - PyTorch - 4194304 - Isoneutral Mixing 1.357
(sec)
Standard Deviation 1.7%

PyHPC Benchmarks - CPU - TensorFlow - 16384 - Equation of State 0.001
(sec)
Standard Deviation 0%

PyHPC Benchmarks - CPU - TensorFlow - 65536 - Equation of State 0.002
(sec)

Standard Deviation 0%

PyHPC Benchmarks - CPU - TensorFlow - 262144 - Equation of 0.005
State (sec)

Standard Deviation 9.1%

PyHPC Benchmarks - CPU - TensorFlow - 1048576 - Equation of 0.026
State (sec)

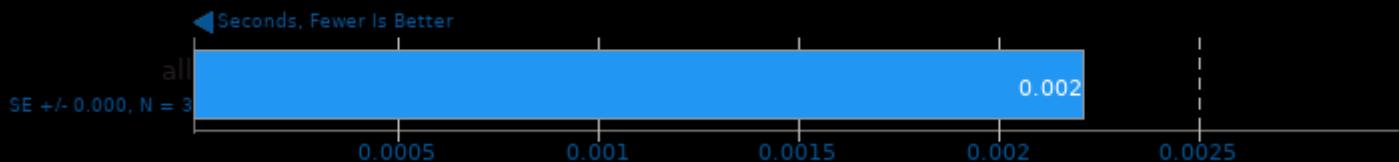
Standard Deviation 4.6%

PyHPC Benchmarks - CPU - TensorFlow - 4194304 - Equation of 0.114
State (sec)

Standard Deviation 2.4%

PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 16384 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 65536 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 262144 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 262144 - Benchmark: Isoneutral Mixing



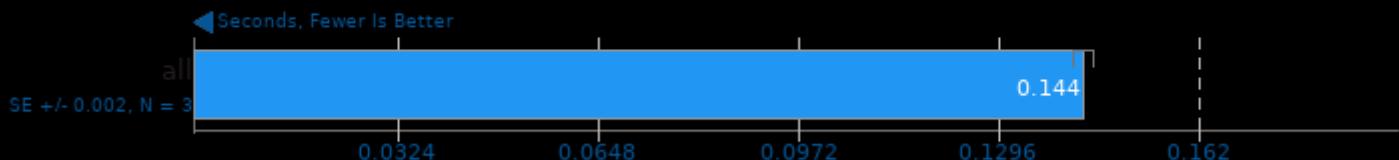
PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 1048576 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 1048576 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 4194304 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: JAX - Project Size: 4194304 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 16384 - Benchmark: Equation of State



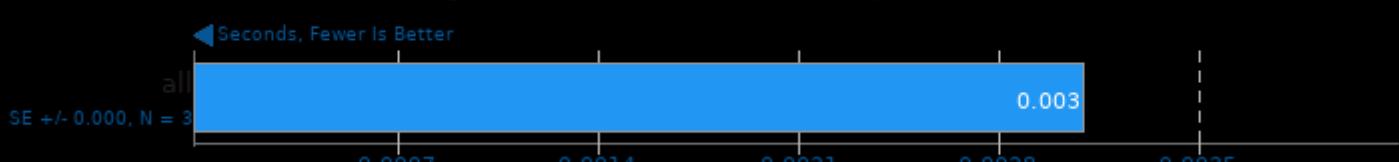
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 16384 - Benchmark: Isoneutral Mixing



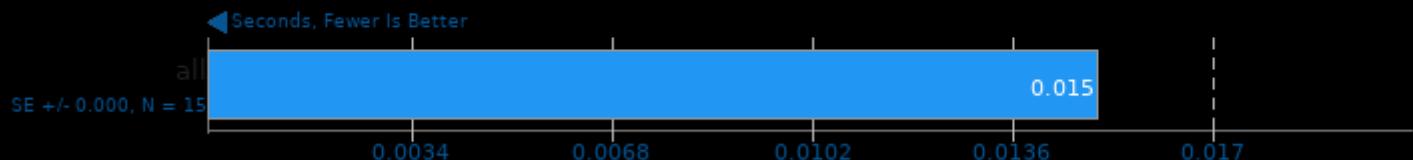
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 65536 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 16384 - Benchmark: Equation of State



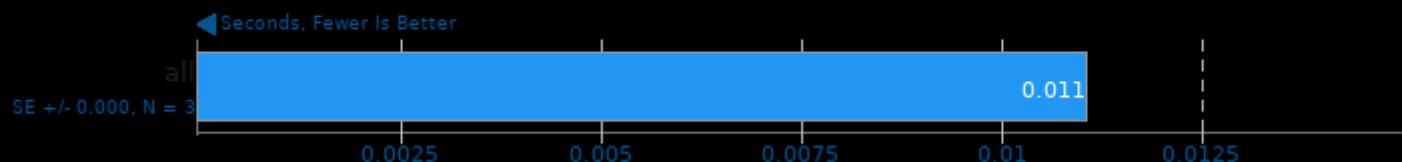
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 16384 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 65536 - Benchmark: Isoneutral Mixing



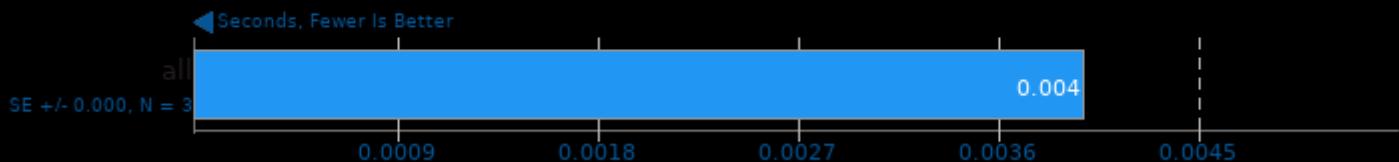
PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 16384 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 16384 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 65536 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 262144 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 262144 - Benchmark: Isoneutral Mixing



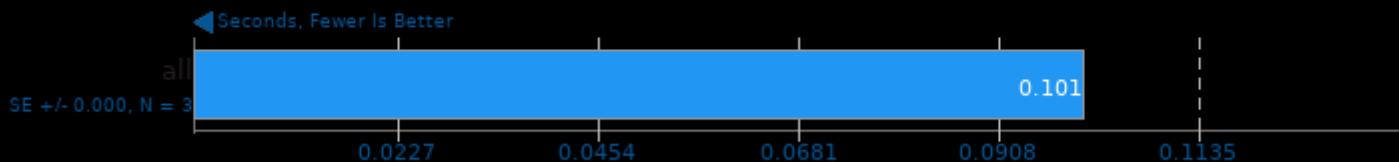
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 262144 - Benchmark: Equation of State



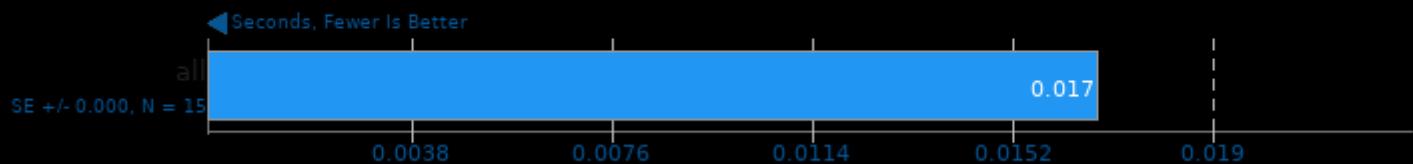
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 262144 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 262144 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 262144 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 1048576 - Benchmark: Equation of State



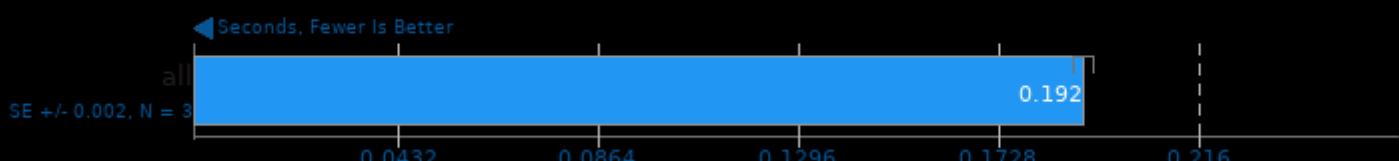
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 1048576 - Benchmark: Isoneutral Mixing



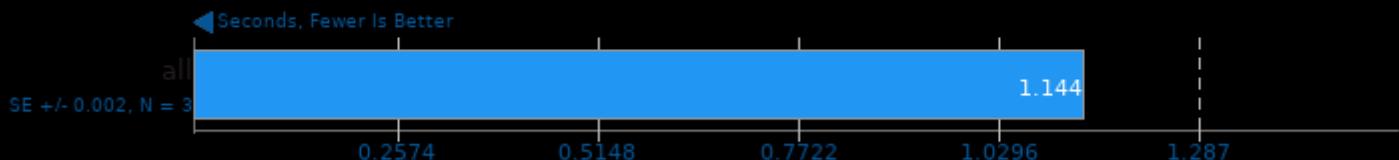
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 4194304 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 4194304 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 1048576 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 1048576 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Equation of State



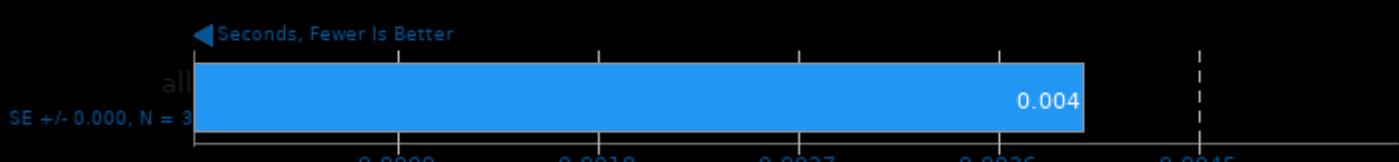
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 16384 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 65536 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 1048576 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 1048576 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 4194304 - Benchmark: Equation of State



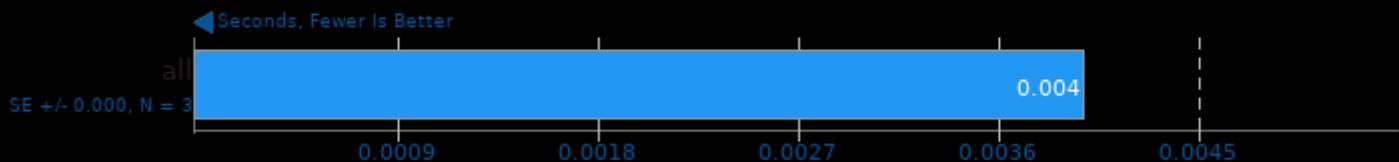
PyHPC Benchmarks 3.0

Device: CPU - Backend: Aesara - Project Size: 4194304 - Benchmark: Isoneutral Mixing



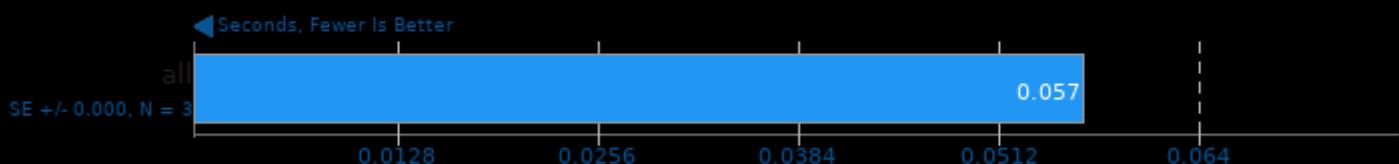
PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 262144 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 262144 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 1048576 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 1048576 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Equation of State



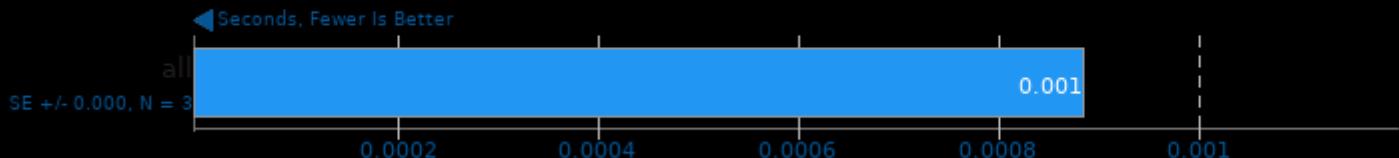
PyHPC Benchmarks 3.0

Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 16384 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 262144 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 1048576 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 4194304 - Benchmark: Equation of State



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