



www.phoronix-test-suite.com

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 - TensorFlow - 4194304 - Equation of State (sec)
Standard Deviation 0.114
State (sec)
Standard Deviation 2.4%

PyHPC Benchmarks - CPU - TensorFlow - 1048576 - Equation of State (sec)
Standard Deviation 0.026
Standard Deviation 4.6%

PyHPC Benchmarks - CPU - TensorFlow - 65536 - Equation of State (sec)
Standard Deviation 0.002
Standard Deviation 0%

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PyHPC Benchmarks - CPU - Numba - 4194304 - Isoneutral Mixing (sec)
Standard Deviation 1.144
Standard Deviation 0%

	Standard Deviation	0.2%
PyHPC Benchmarks - CPU - Numba - 4194304 - Equation of State		0.192
	Standard Deviation	1.8%
PyHPC Benchmarks - CPU - Numba - 1048576 - Isoneutral Mixing		0.265
	Standard Deviation	2.3%
PyHPC Benchmarks - CPU - Numba - 1048576 - Equation of State		0.048
	Standard Deviation	2.1%
PyHPC Benchmarks - CPU - Aesara - 262144 - Isoneutral Mixing		0.065
	Standard Deviation	0.9%
PyHPC Benchmarks - CPU - Aesara - 262144 - Equation of State		0.017
	Standard Deviation	3.1%
PyHPC Benchmarks - CPU - Numpy - 262144 - Isoneutral Mixing		0.101
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numpy - 262144 - Equation of State		0.044
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numba - 262144 - Isoneutral Mixing		0.058
	Standard Deviation	2%
PyHPC Benchmarks - CPU - Numba - 262144 - Equation of State		0.012
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Aesara - 65536 - Isoneutral Mixing		0.018
	Standard Deviation	2.3%
PyHPC Benchmarks - CPU - Aesara - 65536 - Equation of State		0.005
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Aesara - 16384 - Isoneutral Mixing		0.004
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Aesara - 16384 - Equation of State		0.001
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numpy - 65536 - Isoneutral Mixing		0.026
	Standard Deviation	2.2%
PyHPC Benchmarks - CPU - Numpy - 65536 - Equation of State		0.011
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numpy - 16384 - Equation of State		0.002
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numba - 65536 - Isoneutral Mixing		0.015
	Standard Deviation	3.3%
PyHPC Benchmarks - CPU - Numba - 65536 - Equation of State		0.003
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numba - 16384 - Isoneutral Mixing		0.004
	Standard Deviation	0%
PyHPC Benchmarks - CPU - Numba - 16384 - Equation of State		0.001
	Standard Deviation	0%
PyHPC Benchmarks - CPU - JAX - 4194304 - Isoneutral Mixing (sec)		0.694
	Standard Deviation	0.2%
PyHPC Benchmarks - CPU - JAX - 4194304 - Equation of State (sec)		0.039
	Standard Deviation	0%
PyHPC Benchmarks - CPU - JAX - 1048576 - Isoneutral Mixing (sec)		0.144
	Standard Deviation	1.8%
PyHPC Benchmarks - CPU - JAX - 1048576 - Equation of State (sec)		0.011
	Standard Deviation	0%
PyHPC Benchmarks - CPU - JAX - 262144 - Isoneutral Mixing (sec)		0.027
	Standard Deviation	2.1%
PyHPC Benchmarks - CPU - JAX - 262144 - Equation of State (sec)		0.002
	Standard Deviation	0%

PyHPC Benchmarks - CPU - JAX - 65536 - Isoneutral Mixing (sec) 0.012

Standard Deviation 4.1%

PyHPC Benchmarks - CPU - JAX - 65536 - Equation of State (sec) 0.001

Standard Deviation 0%

PyHPC Benchmarks - CPU - JAX - 16384 - Isoneutral Mixing (sec) 0.002

Standard Deviation 0%

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

Standard Deviation 9.1%

PyHPC Benchmarks - CPU - Numpy - 16384 - Isoneutral Mixing 0.007

Standard Deviation 7.7%

PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 4194304 - 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: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: TensorFlow - Project Size: 16384 - 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: PyTorch - Project Size: 4194304 - 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: 1048576 - 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: 262144 - 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: Aesara - Project Size: 4194304 - 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: 1048576 - 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: PyTorch - Project Size: 65536 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

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



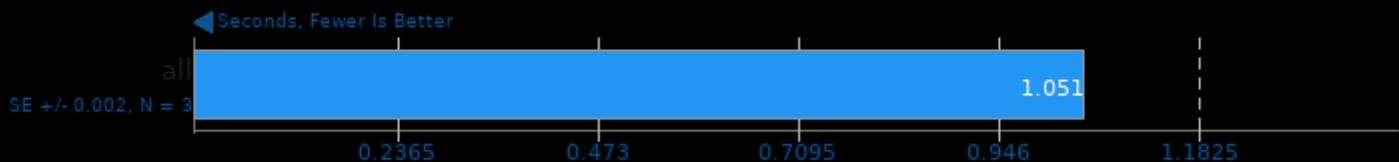
PyHPC Benchmarks 3.0

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



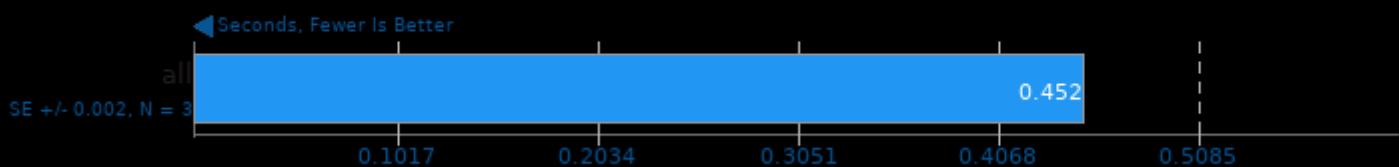
PyHPC Benchmarks 3.0

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



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 1048576 - 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: Numba - Project Size: 4194304 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

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



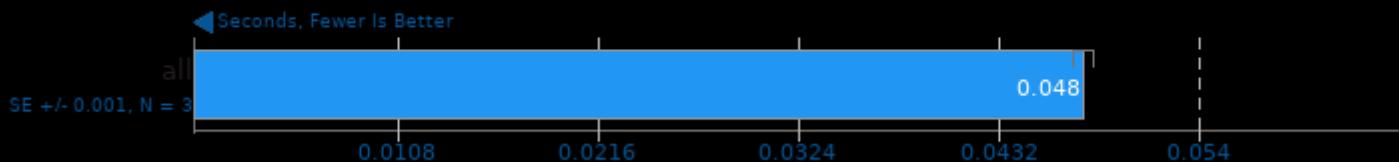
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 1048576 - 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: Aesara - 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: Numpy - Project Size: 262144 - Benchmark: Isoneutral Mixing



PyHPC Benchmarks 3.0

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



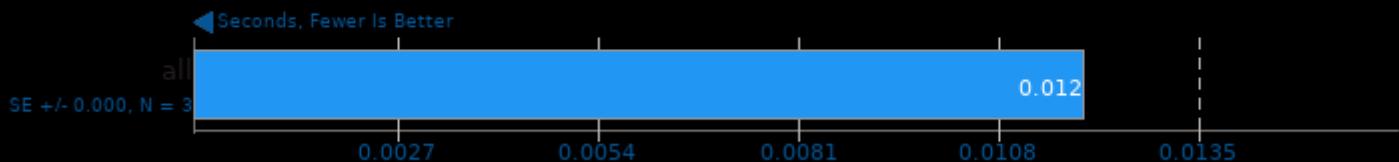
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 262144 - 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: Aesara - Project Size: 65536 - 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: 16384 - Benchmark: Isoneutral Mixing



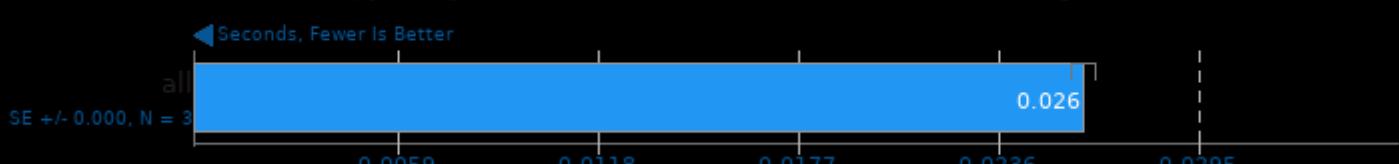
PyHPC Benchmarks 3.0

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



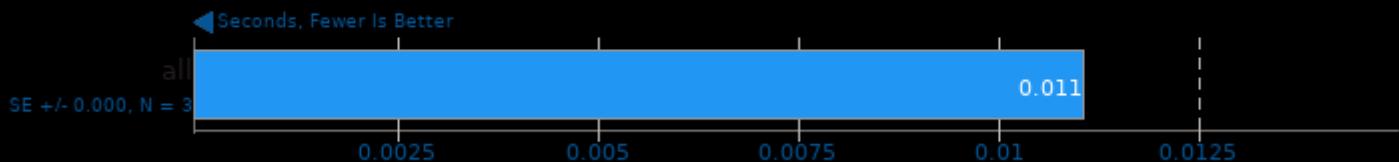
PyHPC Benchmarks 3.0

Device: CPU - Backend: Numpy - Project Size: 65536 - 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: 16384 - Benchmark: Equation of State



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 65536 - Benchmark: Isonewton 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: 16384 - Benchmark: Isonewton Mixing



PyHPC Benchmarks 3.0

Device: CPU - Backend: Numba - Project Size: 16384 - 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: JAX - Project Size: 4194304 - 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: 1048576 - Benchmark: Equation of State



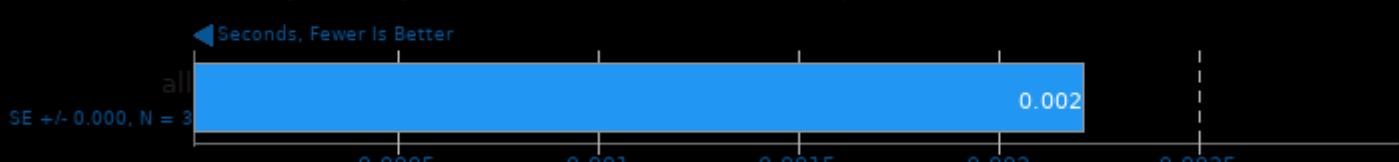
PyHPC Benchmarks 3.0

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



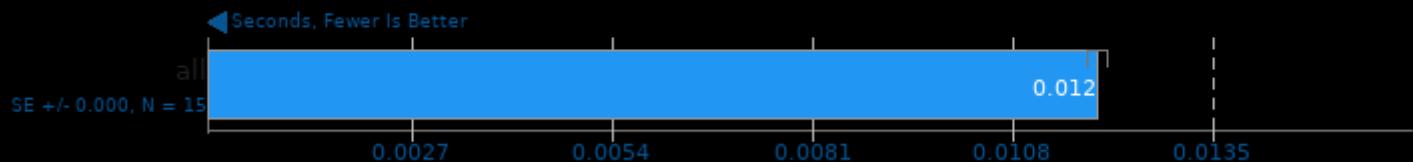
PyHPC Benchmarks 3.0

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



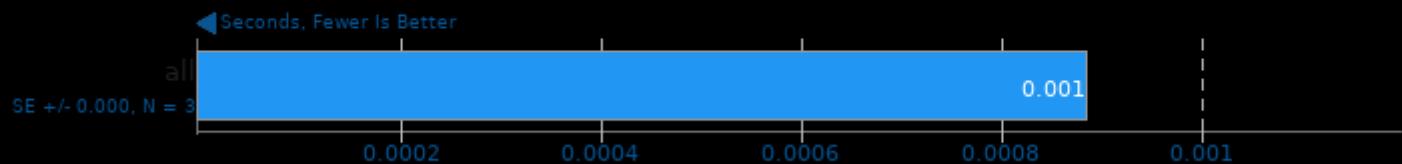
PyHPC Benchmarks 3.0

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



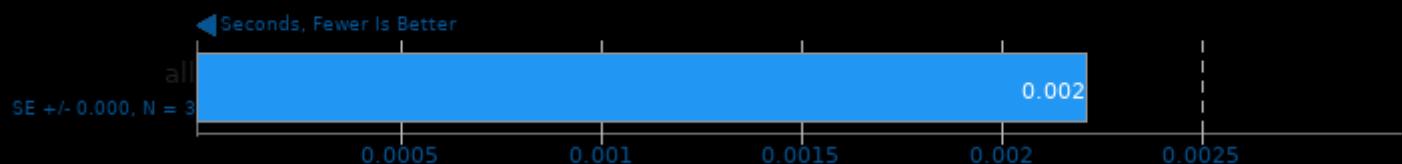
PyHPC Benchmarks 3.0

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



PyHPC Benchmarks 3.0

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



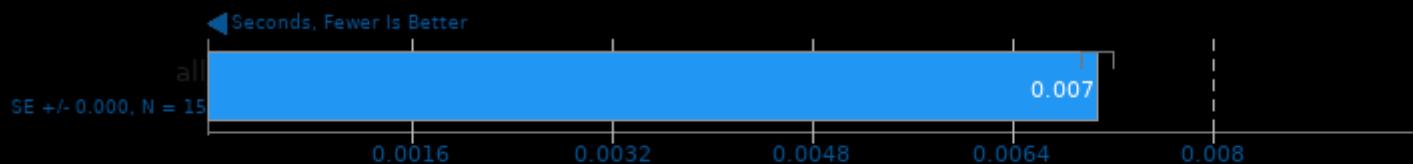
PyHPC Benchmarks 3.0

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



PyHPC Benchmarks 3.0

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



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:53.