



## 5800X Okt

AMD Ryzen 7 5800X 8-Core testing with a ASRock X570 Pro4 (P4.20 BIOS) and Sapphire AMD Radeon RX 470/480/570/570X/580/580X/590 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

### Automated Executive Summary

*1 had the most wins, coming in first place for 81% of the tests.*

*Based on the geometric mean of all complete results, the fastest (1) was 1.015x the speed of the slowest (2).*

*The results with the greatest spread from best to worst included:*

*Redis Memtier / Redis Benchmark (Test: GET) at 1.768x*

*Redis Memtier / Redis Benchmark (Test: MIX) at 1.475x*

*PyHPC Benchmarks (Device: CPU - Backend: JAX - Project Size: 1048576 - Benchmark: Equation of State) at 1.111x*

*PyHPC Benchmarks (Device: CPU - Backend: JAX - Project Size: 65536 - Benchmark: Isonutral Mixing) at 1.1x*

*PyHPC Benchmarks (Device: CPU - Backend: Theano - Project Size: 262144 - Benchmark: Equation of State) at 1.063x*

*PyHPC Benchmarks (Device: CPU - Backend: PyTorch - Project Size: 1048576 - Benchmark: Equation of State) at 1.053x*

*PyHPC Benchmarks (Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Equation of State) at 1.041x*

*RAR Compression (Linux Source Tree Archiving To RAR) at 1.036x*

Redis Memtier / Redis Benchmark (Test: SET) at 1.036x

PyHPC Benchmarks (Device: CPU - Backend: Bohrium - Project Size: 262144 - Benchmark: Equation of State) at 1.032x.

## Test Systems:

1

2

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock X570 Pro4 (P4.20 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Sabrent Rocket 4.0 1TB, Graphics: Sapphire AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1560/2100MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: MX279, Network: Intel I211

OS: Ubuntu 20.10, Kernel: 5.12.0-rc5-nopsf (x86\_64) 20210403, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgc-nvptx=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --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 schedutil (Boost: Enabled) - CPU Microcode: 0xa201016

Python Notes: Python 3.8.6

Security Notes: itlb\_multihit: Not affected + 11tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swaps 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

	1	2
<b>OpenSSL (sign/s)</b>	<b>2626</b>	<b>2597</b>
Normalized	100%	98.9%
Standard Deviation		0.7%
<b>OpenSSL (verify/s)</b>	<b>170317</b>	<b>167814</b>
Normalized	100%	98.53%
Standard Deviation		0.7%
<b>GIMP - resize (sec)</b>	<b>5.616</b>	<b>5.628</b>
Normalized	100%	99.79%
Standard Deviation		0.9%
<b>GIMP - rotate (sec)</b>	<b>8.563</b>	<b>8.611</b>
Normalized	100%	99.44%
Standard Deviation		0.7%
<b>GIMP - auto-levels (sec)</b>	<b>8.797</b>	<b>8.939</b>

	Normalized	100%	98.41%
	Standard Deviation		0.3%
<b>GIMP - unsharp-mask (sec)</b>		<b>10.346</b>	<b>10.519</b>
	Normalized	100%	98.36%
	Standard Deviation		0%
<b>Redis Memtier / Redis Benchmark - L.a.L.I (Reqs/sec)</b>		<b>1840286</b>	<b>1816520</b>
	Normalized	100%	98.71%
	Standard Deviation		2.3%
<b>Redis Memtier / Redis Benchmark - L.a.L.I (Reqs/sec)</b>		<b>1864997</b>	<b>1861732</b>
	Normalized	100%	99.82%
	Standard Deviation		0.9%
<b>Redis Memtier / Redis Benchmark - GET</b>		<b>1742274</b>	<b>985350</b>
	Normalized	100%	56.56%
	Standard Deviation		1.7%
<b>Redis Memtier / Redis Benchmark - MIX</b>		<b>1498868</b>	<b>1016169</b>
	Normalized	100%	67.8%
	Standard Deviation		1.3%
<b>Redis Memtier / Redis Benchmark - SET</b>		<b>1176834</b>	<b>1135528</b>
	Normalized	100%	96.49%
	Standard Deviation		2.5%
<b>Nginx - Long Connection - 100 (Reqs/sec)</b>		<b>194334</b>	<b>189585</b>
	Normalized	100%	97.56%
	Standard Deviation		1%
<b>Nginx - Long Connection - 500 (Reqs/sec)</b>		<b>196861</b>	<b>191516</b>
	Normalized	100%	97.29%
	Standard Deviation		0.4%
<b>Nginx - Long Connection - 1000 (Reqs/sec)</b>		<b>158027</b>	<b>155314</b>
	Normalized	100%	98.28%
	Standard Deviation		0.2%
<b>Nginx - Short Connection - 100 (Reqs/sec)</b>		<b>121224</b>	<b>118499</b>
	Normalized	100%	97.75%
	Standard Deviation		0.6%
<b>Nginx - Short Connection - 500 (Reqs/sec)</b>		<b>117629</b>	<b>115356</b>
	Normalized	100%	98.07%
	Standard Deviation		0.5%
<b>Nginx - Short Connection - 1000 (Reqs/sec)</b>		<b>102793</b>	<b>101862</b>
	Normalized	100%	99.09%
	Standard Deviation		0.4%
<b>RAR Compression - L.S.T.A.T.R (sec)</b>		<b>37.399</b>	<b>38.764</b>
	Normalized	100%	96.48%
	Standard Deviation		0.6%
<b>PyHPC Benchmarks - CPU - JAX - 16384 - Isonutral</b>		0.002	0.002
	Mixing (sec)		
	Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - JAX - 65536 - Isonutral</b>		<b>0.011</b>	<b>0.01</b>
	Mixing (sec)		
	Normalized	90.91%	100%
	Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - JAX - 262144 - Equation</b>		0.001	0.001
	of State (sec)		
	Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - JAX - 262144 - Isonutral</b>		0.028	0.028
	Mixing (sec)		
	Standard Deviation		0%

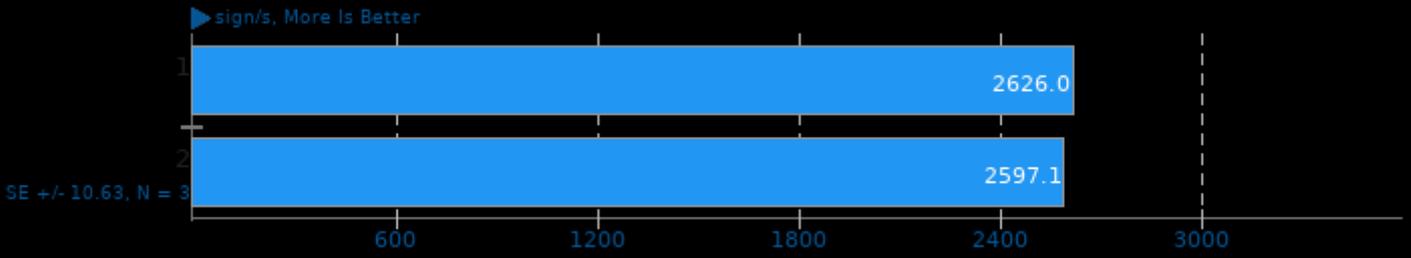
<b>PyHPC Benchmarks - CPU - JAX - 1048576 - Equation of State (sec)</b>	<b>0.009</b>	<b>0.010</b>
Normalized	100%	90%
Standard Deviation		3.6%
<b>PyHPC Benchmarks - CPU - JAX - 1048576 - Isonutral Mixing (sec)</b>	0.146	0.146
Standard Deviation		0.4%
<b>PyHPC Benchmarks - CPU - JAX - 4194304 - Equation of State (sec)</b>	0.036	0.036
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - JAX - 4194304 - Isonutral Mixing (sec)</b>	<b>0.694</b>	<b>0.696</b>
Normalized	100%	99.71%
Standard Deviation		0.1%
<b>PyHPC Benchmarks - CPU - Numba - 16384 - Equation of State (sec)</b>	0.001	0.001
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numba - 16384 - Isonutral Mixing (sec)</b>	0.003	0.003
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numba - 65536 - Equation of State (sec)</b>	0.003	0.003
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numba - 65536 - Isonutral Mixing (sec)</b>	0.014	0.014
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numpy - 16384 - Equation of State (sec)</b>	0.002	0.002
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numpy - 16384 - Isonutral Mixing (sec)</b>	0.006	0.006
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numpy - 65536 - Equation of State (sec)</b>	0.01	0.01
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numpy - 65536 - Isonutral Mixing (sec)</b>	0.024	0.024
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numba - 262144 - Equation of State (sec)</b>	0.012	0.012
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numba - 262144 - Isonutral Mixing (sec)</b>	0.052	0.052
Standard Deviation		1.1%
<b>PyHPC Benchmarks - CPU - Numpy - 262144 - Equation of State (sec)</b>	<b>0.041</b>	<b>0.042</b>
Normalized	100%	97.62%
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - Numpy - 262144 - Isonutral Mixing (sec)</b>	<b>0.093</b>	<b>0.095</b>
Normalized	100%	97.89%
Standard Deviation		0.6%

PyHPC Benchmarks - CPU - Theano - 16384 -	0.001	0.001
Equation of State (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 16384 -	0.004	0.004
Isonutral Mixing (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 65536 -	0.005	0.005
Equation of State (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 65536 -	0.016	0.016
Isonutral Mixing (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Bohrium - 16384 -	0.019	0.019
Equation of State (sec)		
Standard Deviation		2.7%
PyHPC Benchmarks - CPU - Bohrium - 16384 -	0.029	0.029
Isonutral Mixing (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Bohrium - 65536 -	0.022	0.022
Equation of State (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Bohrium - 65536 -	0.041	0.041
Isonutral Mixing (sec)		
Standard Deviation		1.4%
PyHPC Benchmarks - CPU - Numba - 1048576 -	0.048	0.048
Equation of State (sec)		
Standard Deviation		0%
PyHPC Benchmarks - CPU - Numba - 1048576 -	<b>0.243</b>	<b>0.238</b>
Isonutral Mixing (sec)		
Normalized	97.94%	100%
Standard Deviation		1.1%
PyHPC Benchmarks - CPU - Numba - 4194304 -	<b>0.194</b>	<b>0.19</b>
Equation of State (sec)		
Normalized	97.94%	100%
Standard Deviation		0%
PyHPC Benchmarks - CPU - Numba - 4194304 -	<b>1.001</b>	<b>0.998</b>
Isonutral Mixing (sec)		
Normalized	99.7%	100%
Standard Deviation		0.9%
PyHPC Benchmarks - CPU - Numpy - 1048576 -	<b>0.179</b>	<b>0.180</b>
Equation of State (sec)		
Normalized	100%	99.44%
Standard Deviation		0.8%
PyHPC Benchmarks - CPU - Numpy - 1048576 -	<b>0.436</b>	<b>0.433</b>
Isonutral Mixing (sec)		
Normalized	99.31%	100%
Standard Deviation		0.4%
PyHPC Benchmarks - CPU - Numpy - 4194304 -	<b>1.048</b>	<b>1.053</b>
Equation of State (sec)		
Normalized	100%	99.53%
Standard Deviation		0.2%

PyHPC Benchmarks - CPU - Numpy - 4194304 - Isonutral Mixing (sec)	<b>1.958</b>	<b>1.964</b>
Normalized	100%	99.69%
Standard Deviation		0.3%
PyHPC Benchmarks - CPU - PyTorch - 16384 - Isonutral Mixing (sec)	0.004	0.004
Standard Deviation		0%
PyHPC Benchmarks - CPU - PyTorch - 65536 - Equation of State (sec)	0.001	0.001
Standard Deviation		0%
PyHPC Benchmarks - CPU - PyTorch - 65536 - Isonutral Mixing (sec)	0.013	0.013
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 262144 - Equation of State (sec)	<b>0.017</b>	<b>0.016</b>
Normalized	94.12%	100%
Standard Deviation		3%
PyHPC Benchmarks - CPU - Theano - 262144 - Isonutral Mixing (sec)	<b>0.061</b>	<b>0.062</b>
Normalized	100%	98.39%
Standard Deviation		0%
PyHPC Benchmarks - CPU - Bohrium - 262144 - Equation of State (sec)	<b>0.031</b>	<b>0.032</b>
Normalized	100%	96.88%
Standard Deviation		1.8%
PyHPC Benchmarks - CPU - Bohrium - 262144 - Isonutral Mixing (sec)	<b>0.092</b>	<b>0.094</b>
Normalized	100%	97.87%
Standard Deviation		0%
PyHPC Benchmarks - CPU - PyTorch - 262144 - Equation of State (sec)	0.004	0.004
Standard Deviation		0%
PyHPC Benchmarks - CPU - PyTorch - 262144 - Isonutral Mixing (sec)	<b>0.055</b>	<b>0.054</b>
Normalized	98.18%	100%
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 1048576 - Equation of State (sec)	0.068	0.068
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 1048576 - Isonutral Mixing (sec)	<b>0.293</b>	<b>0.297</b>
Normalized	100%	98.65%
Standard Deviation		0.2%
PyHPC Benchmarks - CPU - Theano - 4194304 - Equation of State (sec)	<b>0.274</b>	<b>0.27</b>
Normalized	98.54%	100%
Standard Deviation		0%
PyHPC Benchmarks - CPU - Theano - 4194304 - Isonutral Mixing (sec)	<b>1.302</b>	<b>1.284</b>
Normalized	98.62%	100%
Standard Deviation		0.8%

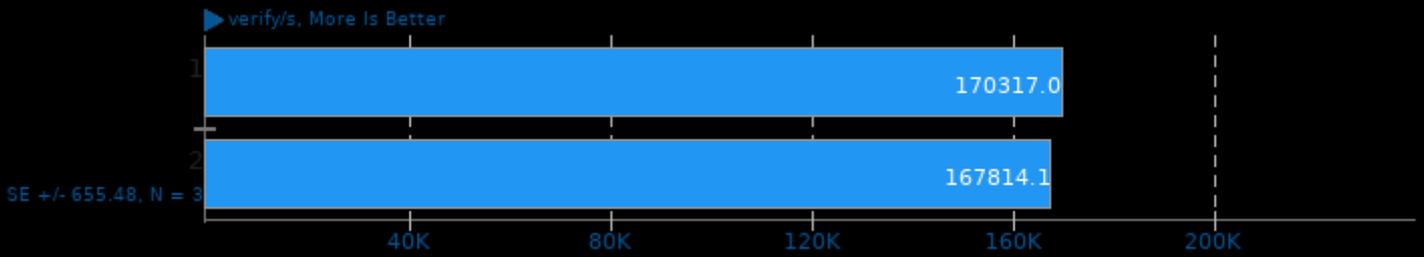
<b>PyHPC Benchmarks - CPU - Bohrium - 1048576 - Equation of State (sec)</b>	<b>0.073</b>	<b>0.072</b>
Normalized	98.63%	100%
Standard Deviation		0.8%
<b>PyHPC Benchmarks - CPU - Bohrium - 1048576 - Isonutral Mixing (sec)</b>	<b>0.307</b>	<b>0.302</b>
Normalized	98.37%	100%
Standard Deviation		1.1%
<b>PyHPC Benchmarks - CPU - Bohrium - 4194304 - Equation of State (sec)</b>	<b>0.23</b>	<b>0.234</b>
Normalized	100%	98.29%
Standard Deviation		1%
<b>PyHPC Benchmarks - CPU - Bohrium - 4194304 - Isonutral Mixing (sec)</b>	<b>1.167</b>	<b>1.158</b>
Normalized	99.23%	100%
Standard Deviation		0.2%
<b>PyHPC Benchmarks - CPU - PyTorch - 1048576 - Equation of State (sec)</b>	<b>0.02</b>	<b>0.019</b>
Normalized	95%	100%
Standard Deviation		5.4%
<b>PyHPC Benchmarks - CPU - PyTorch - 1048576 - Isonutral Mixing (sec)</b>	<b>0.273</b>	<b>0.272</b>
Normalized	99.63%	100%
Standard Deviation		0.4%
<b>PyHPC Benchmarks - CPU - PyTorch - 4194304 - Equation of State (sec)</b>	<b>0.073</b>	<b>0.076</b>
Normalized	100%	96.05%
Standard Deviation		5%
<b>PyHPC Benchmarks - CPU - PyTorch - 4194304 - Isonutral Mixing (sec)</b>	<b>1.337</b>	<b>1.349</b>
Normalized	100%	99.11%
Standard Deviation		0.9%
<b>PyHPC Benchmarks - CPU - TensorFlow - 16384 - Equation of State (sec)</b>	0.001	0.001
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - TensorFlow - 65536 - Equation of State (sec)</b>	0.002	0.002
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - TensorFlow - 262144 - Equation of State (sec)</b>	0.005	0.005
Standard Deviation		0%
<b>PyHPC Benchmarks - CPU - TensorFlow - 1048576 - Equation of State (sec)</b>	0.023	0.023
Standard Deviation		2.5%
<b>PyHPC Benchmarks - CPU - TensorFlow - 4194304 - Equation of State (sec)</b>	<b>0.109</b>	<b>0.107</b>
Normalized	98.17%	100%
Standard Deviation		0.5%

### OpenSSL



1. OpenSSL 1.1.1f 31 Mar 2020

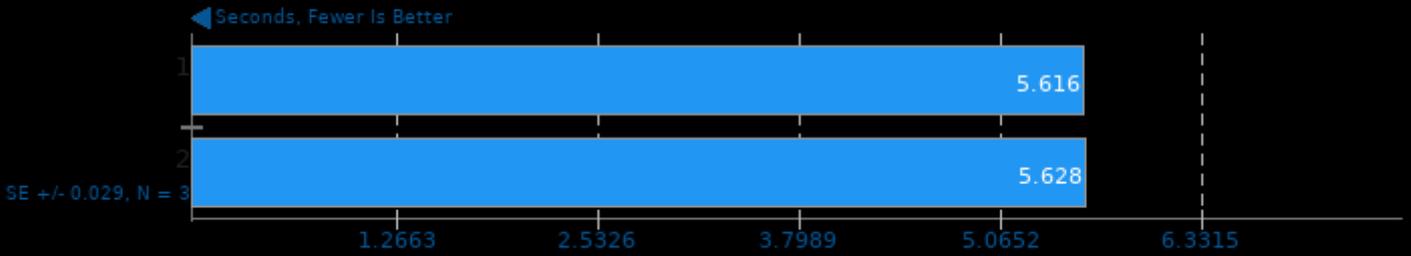
### OpenSSL



1. OpenSSL 1.1.1f 31 Mar 2020

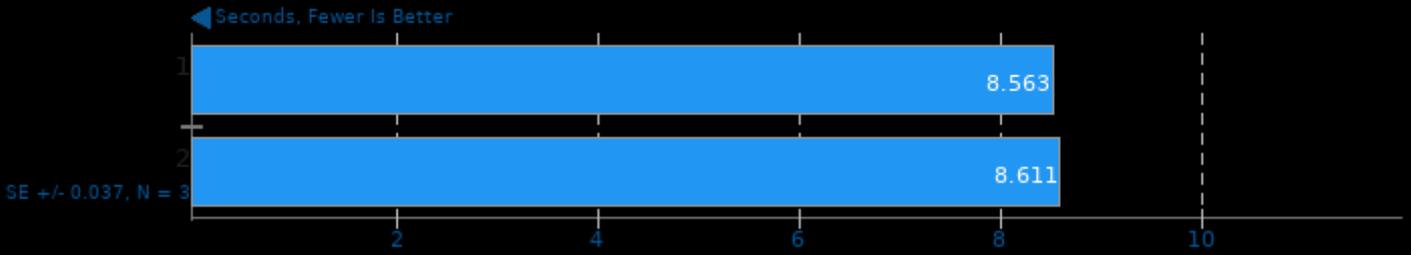
### GIMP 2.10.18

Test: resize



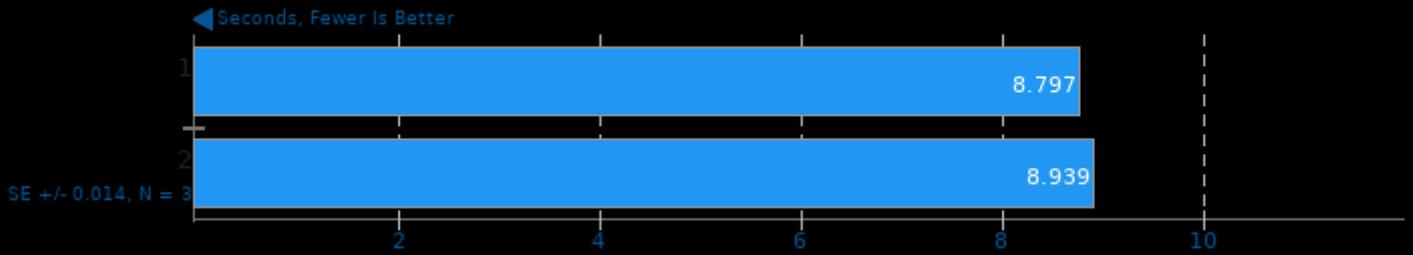
### GIMP 2.10.18

Test: rotate



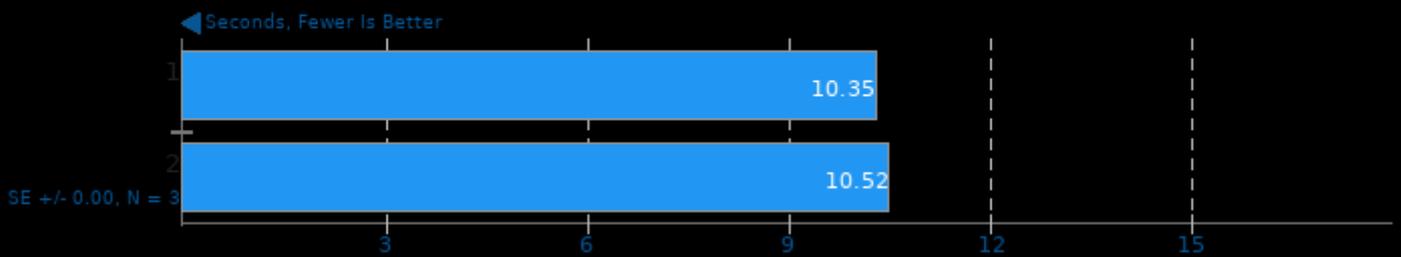
### GIMP 2.10.18

Test: auto-levels



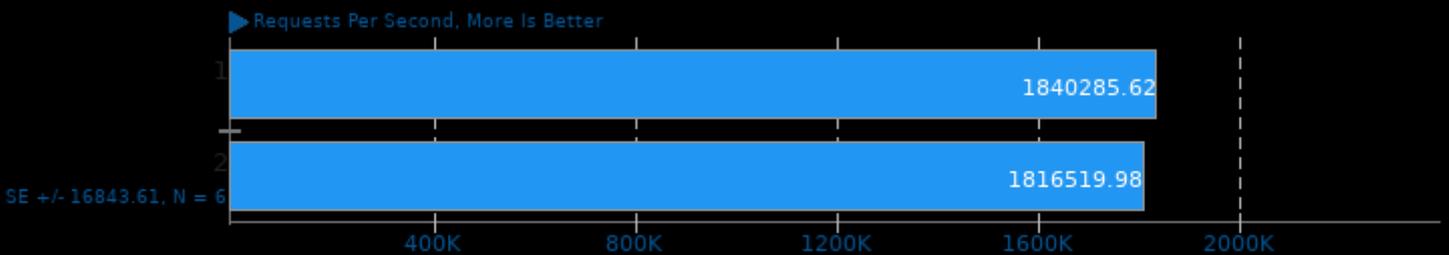
### GIMP 2.10.18

Test: unsharp-mask



### Redis Memtier / Redis Benchmark

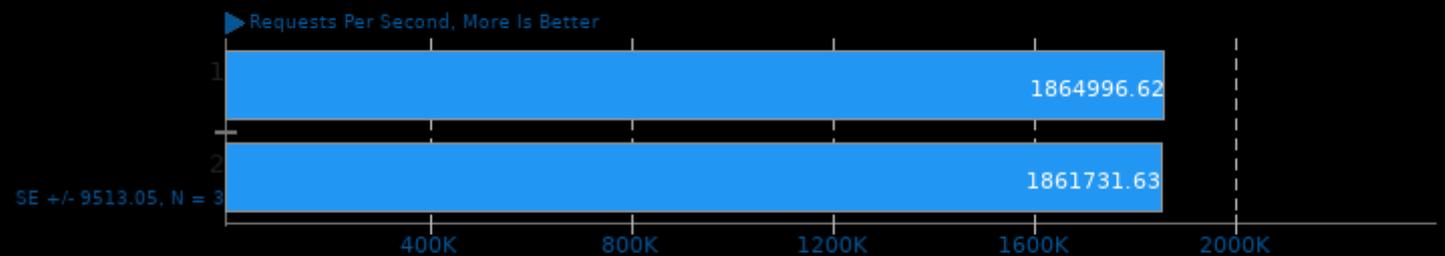
Test: LPUSH and LPOP; lpop



- 1. (CXX) g++ options: -O2 -levent\_openssl -levent -lcrypto -lssl -lpthread -lz -lpcrc
- 2. Redis server v=6.0.6 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=ca474e00afe358bb

### Redis Memtier / Redis Benchmark

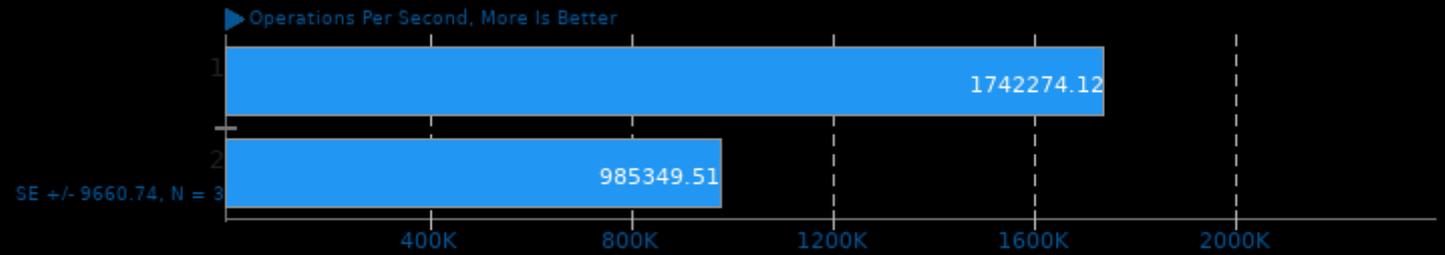
Test: LPUSH and LPOP; lpush



- 1. (CXX) g++ options: -O2 -levent\_openssl -levent -lcrypto -lssl -lpthread -lz -lpcrc
- 2. Redis server v=6.0.6 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=ca474e00afe358bb

## Redis Memtier / Redis Benchmark

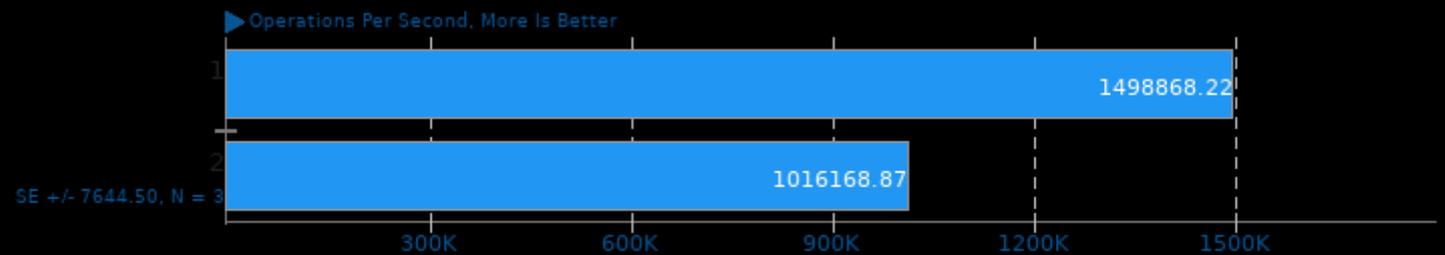
Test: GET



1. (CXX) g++ options: -O2 -levent\_openssl -levent -lcrypto -lssl -lpthread -lz -lpcrc  
2. Redis server v=6.0.6 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=ca474e00afe358bb

## Redis Memtier / Redis Benchmark

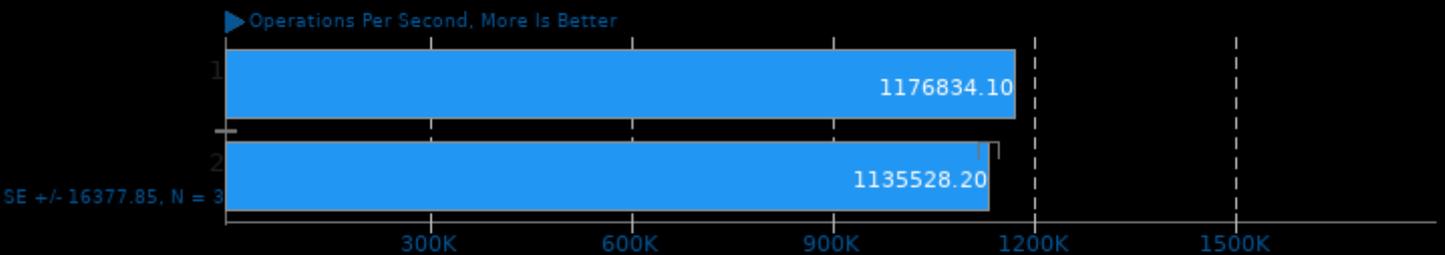
Test: MIX



1. (CXX) g++ options: -O2 -levent\_openssl -levent -lcrypto -lssl -lpthread -lz -lpcrc  
2. Redis server v=6.0.6 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=ca474e00afe358bb

## Redis Memtier / Redis Benchmark

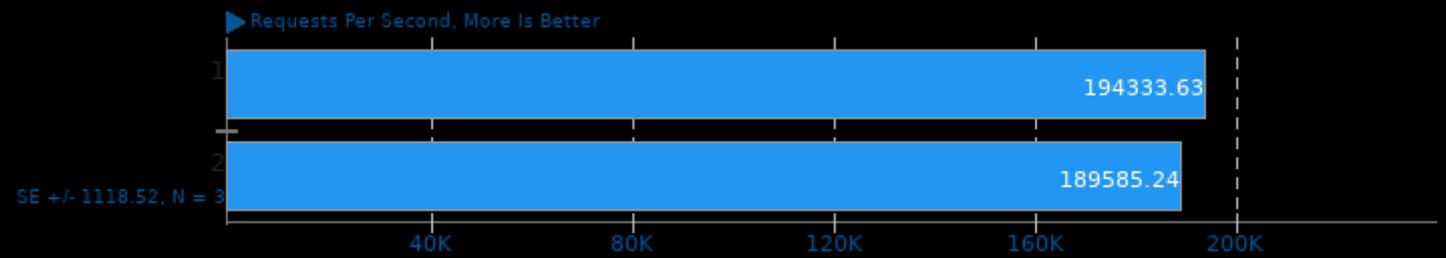
Test: SET



1. (CXX) g++ options: -O2 -levent\_openssl -levent -lcrypto -lssl -lpthread -lz -lpcrc  
2. Redis server v=6.0.6 sha=00000000:0 malloc=jemalloc-5.2.1 bits=64 build=ca474e00afe358bb

## Nginx

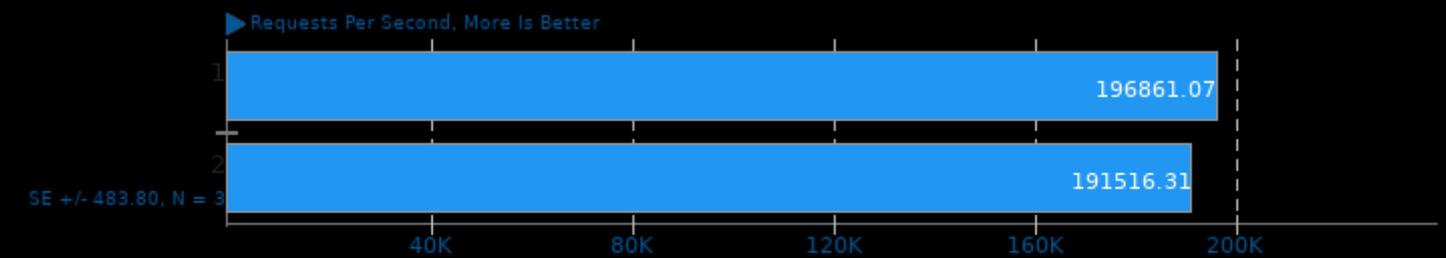
Test: Long Connection - Connections: 100



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2  
2. nginx version: nginx/1.18.0 (Ubuntu)

## Nginx

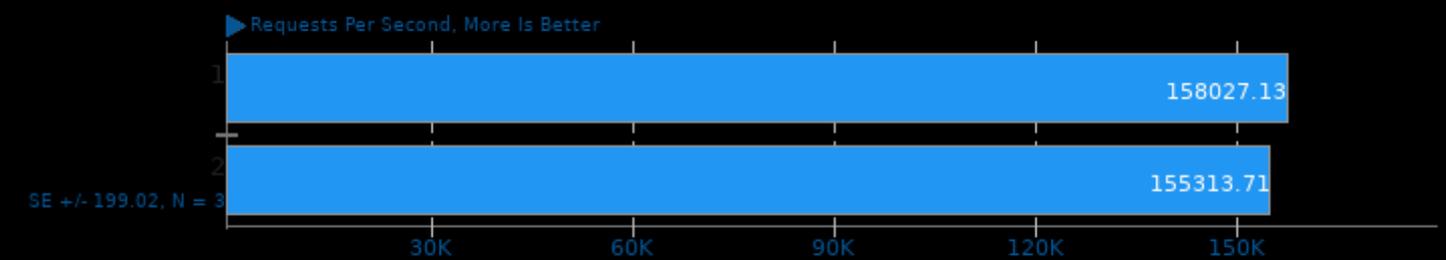
Test: Long Connection - Connections: 500



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2  
2. nginx version: nginx/1.18.0 (Ubuntu)

## Nginx

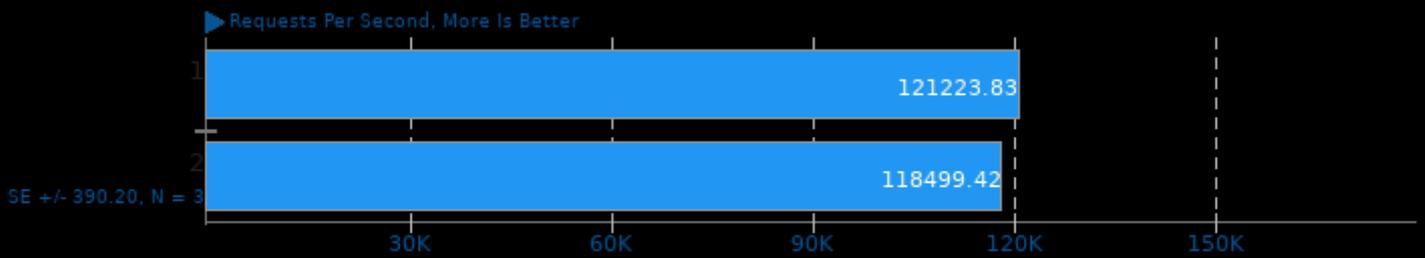
Test: Long Connection - Connections: 1000



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2  
2. nginx version: nginx/1.18.0 (Ubuntu)

## Nginx

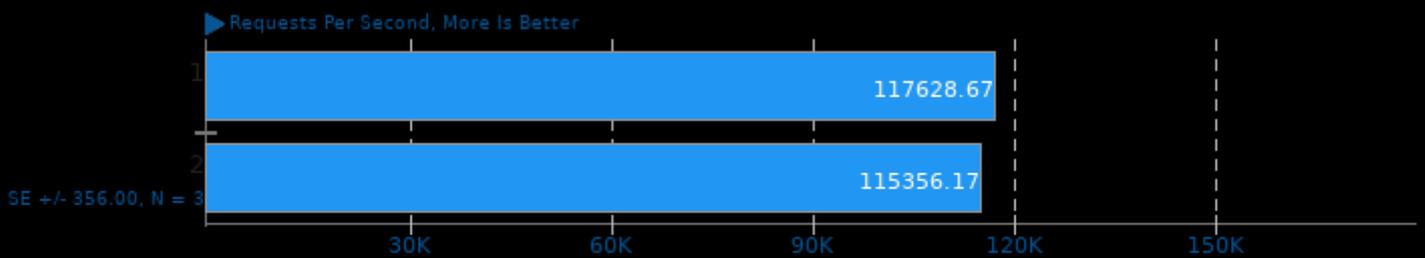
Test: Short Connection - Connections: 100



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2  
2. nginx version: nginx/1.18.0 (Ubuntu)

## Nginx

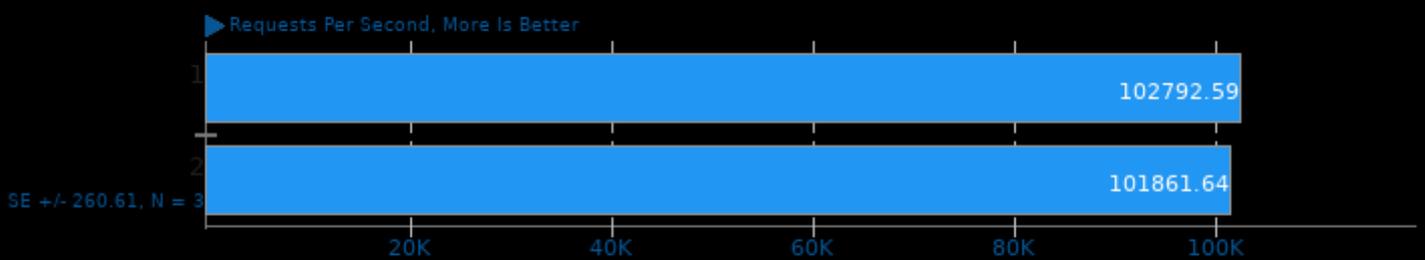
Test: Short Connection - Connections: 500



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2  
2. nginx version: nginx/1.18.0 (Ubuntu)

## Nginx

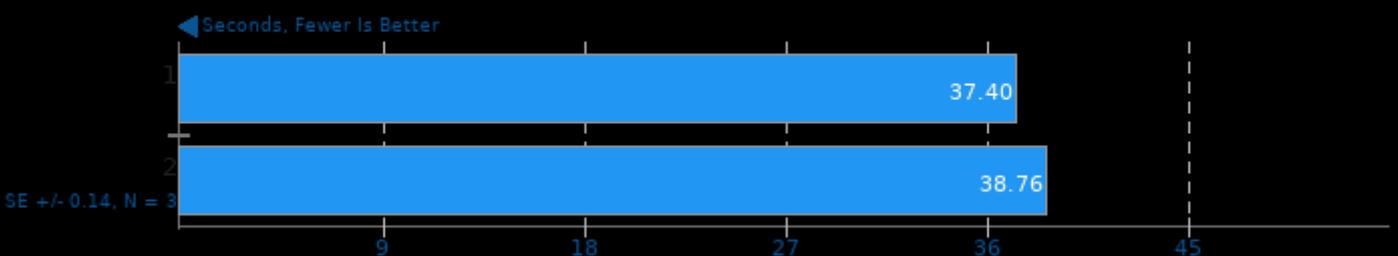
Test: Short Connection - Connections: 1000



1. (CC) gcc options: -lluajit-5.1 -lm -lssl -lcrypto -lpthread -ldl -std=c99 -O2  
2. nginx version: nginx/1.18.0 (Ubuntu)

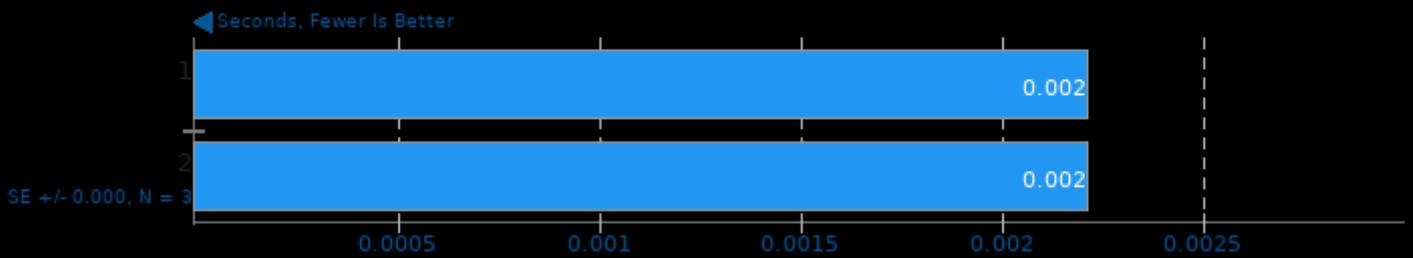
## RAR Compression 6.0.2

Linux Source Tree Archiving To RAR



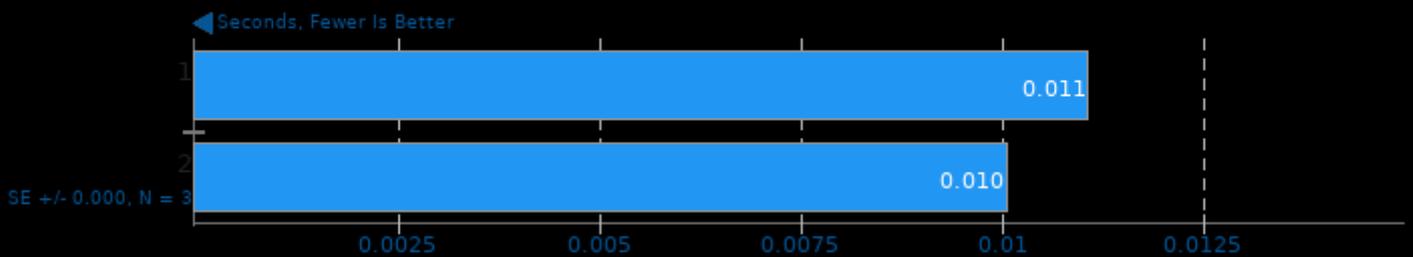
### PyHPC Benchmarks 2.1

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



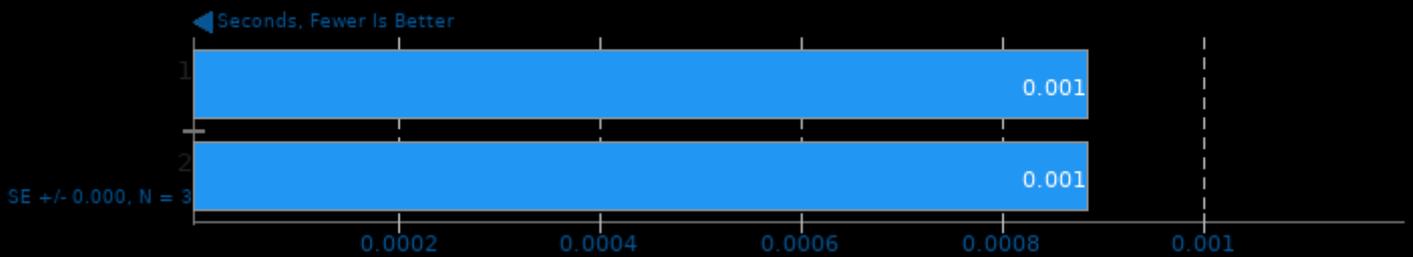
### PyHPC Benchmarks 2.1

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



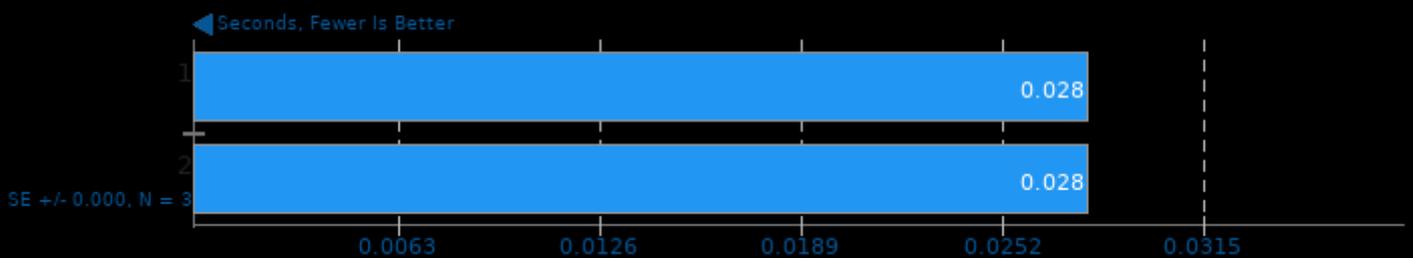
### PyHPC Benchmarks 2.1

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



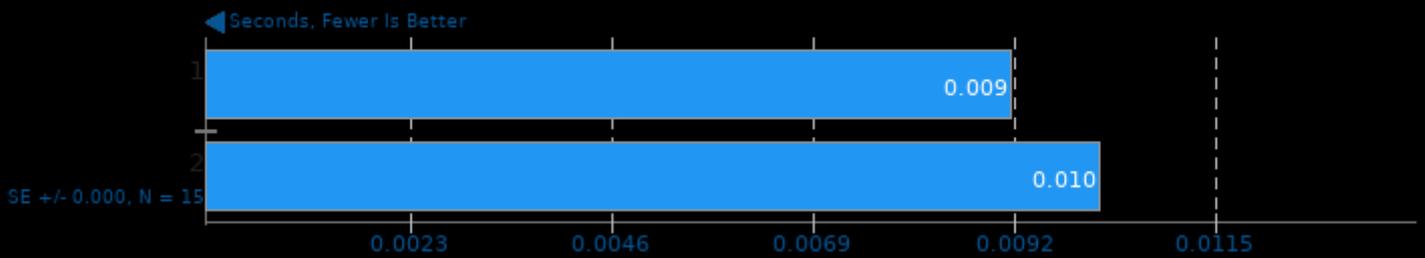
### PyHPC Benchmarks 2.1

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



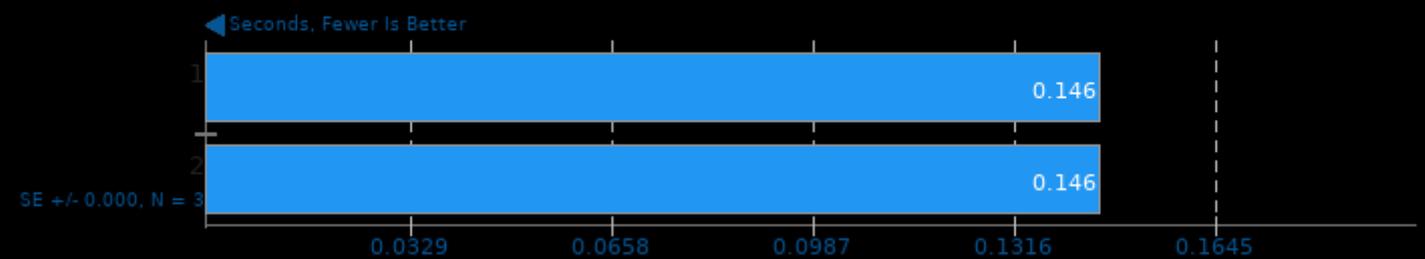
### PyHPC Benchmarks 2.1

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



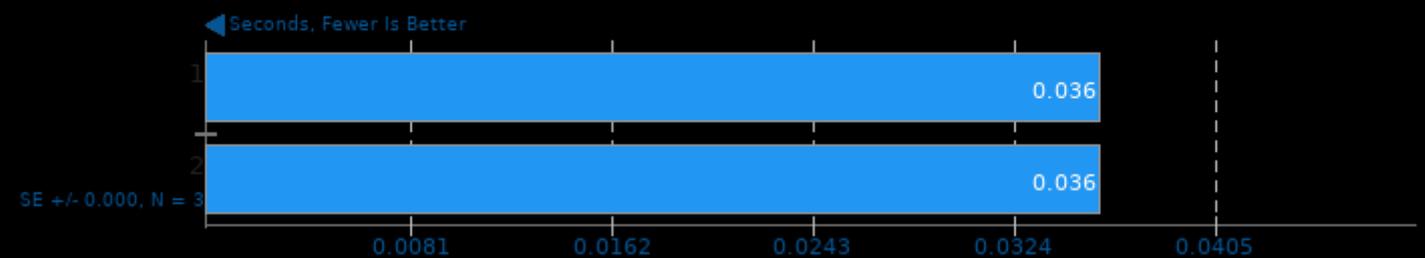
### PyHPC Benchmarks 2.1

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



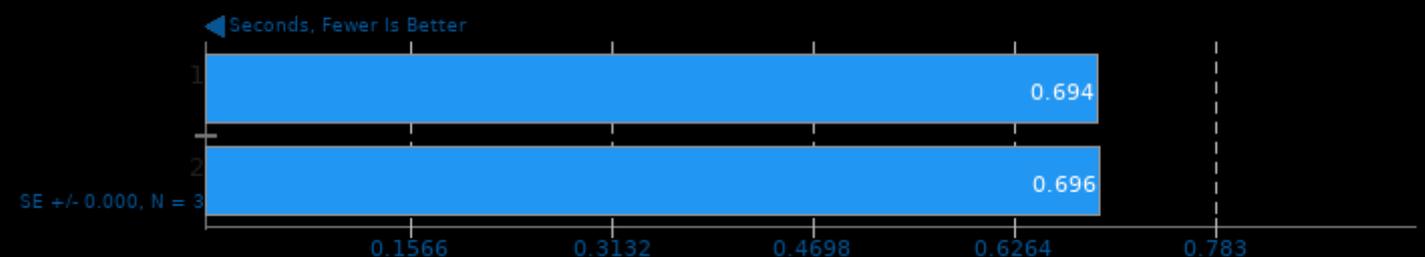
### PyHPC Benchmarks 2.1

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



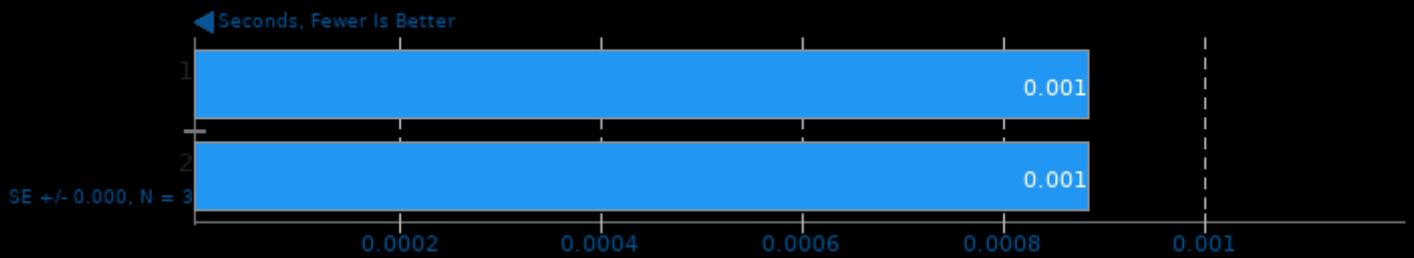
### PyHPC Benchmarks 2.1

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



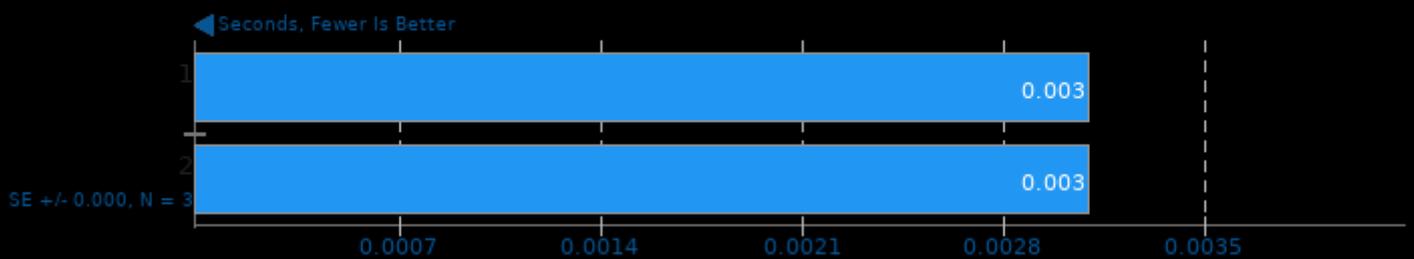
### PyHPC Benchmarks 2.1

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



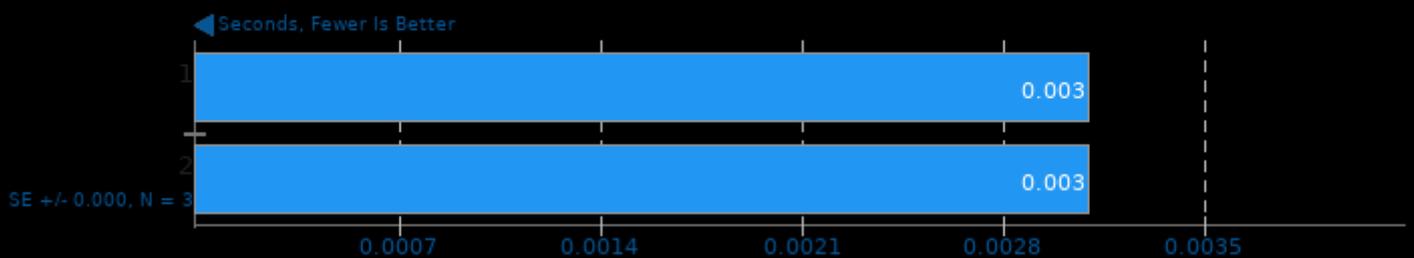
### PyHPC Benchmarks 2.1

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



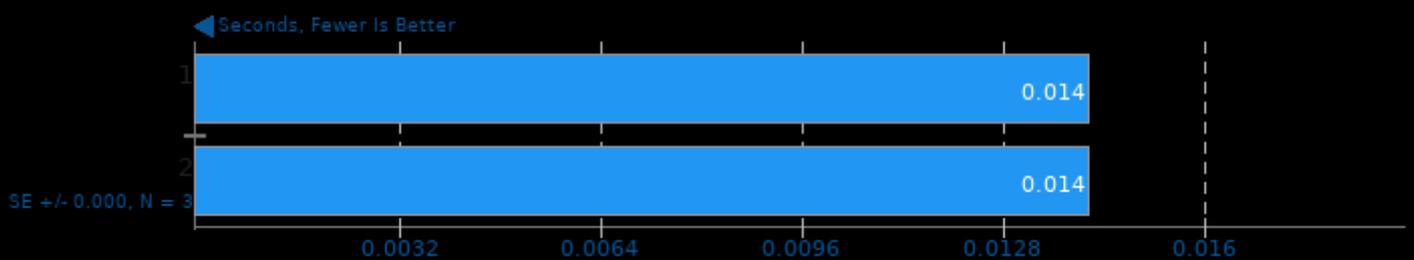
### PyHPC Benchmarks 2.1

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



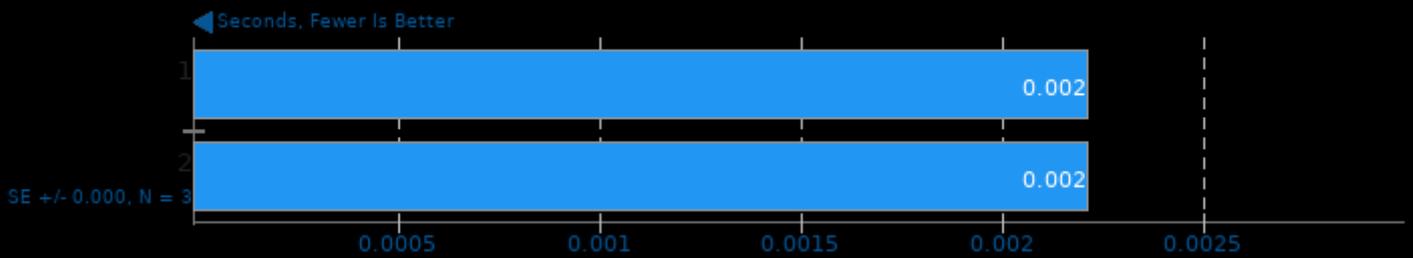
### PyHPC Benchmarks 2.1

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



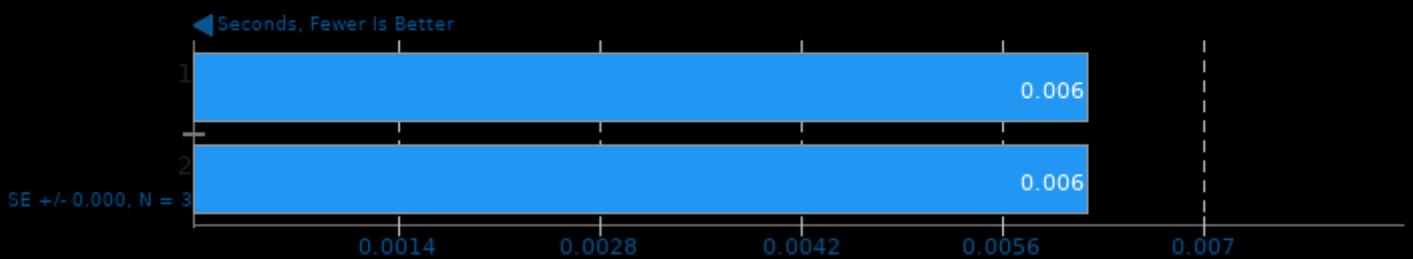
### PyHPC Benchmarks 2.1

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



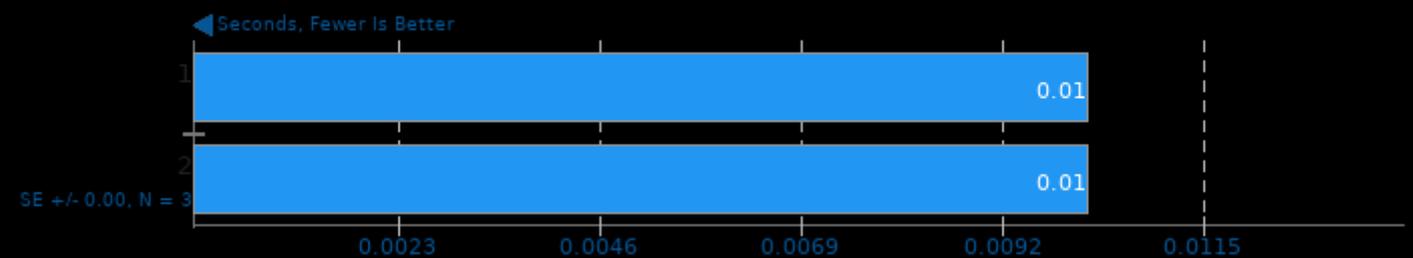
### PyHPC Benchmarks 2.1

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



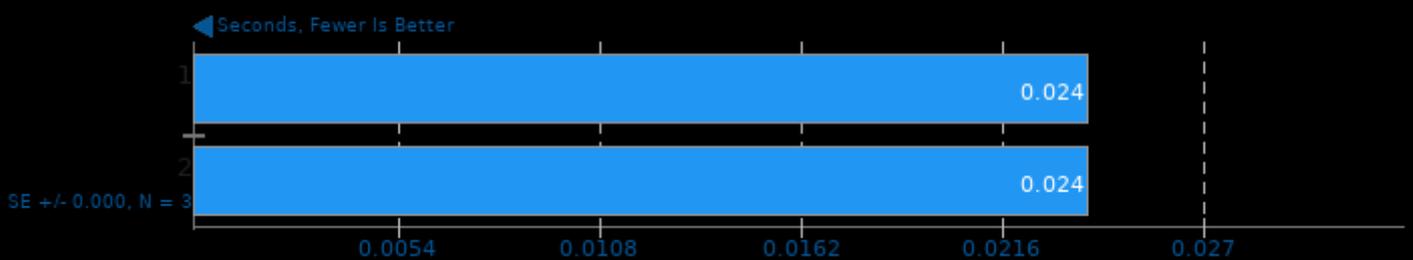
### PyHPC Benchmarks 2.1

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



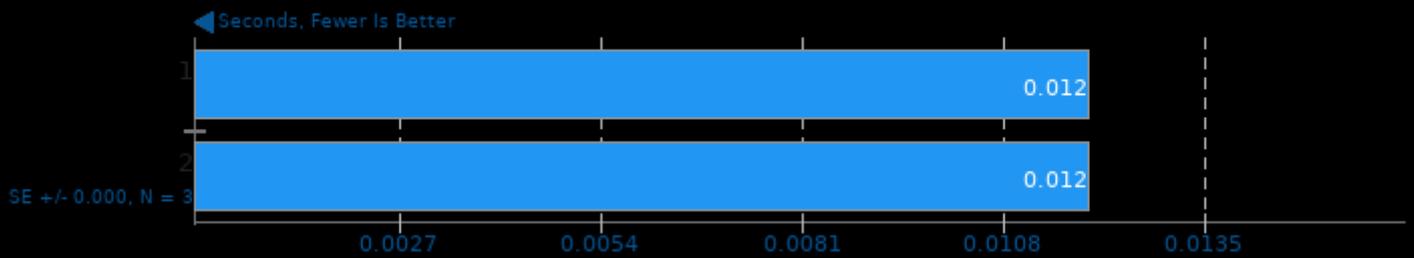
### PyHPC Benchmarks 2.1

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



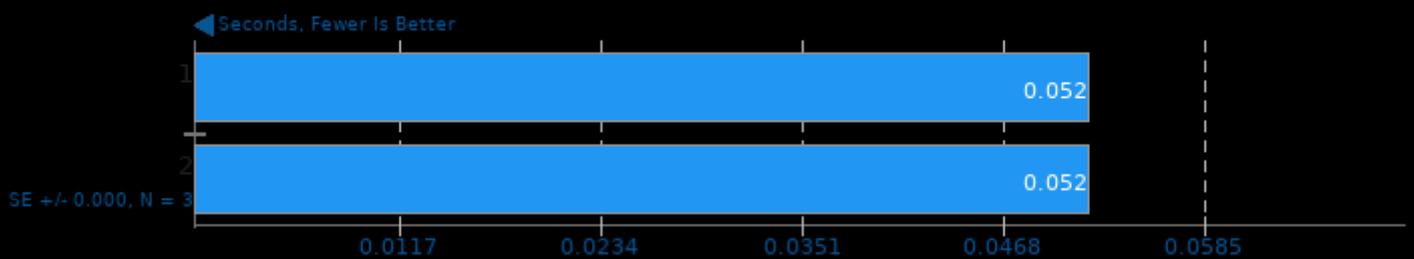
### PyHPC Benchmarks 2.1

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



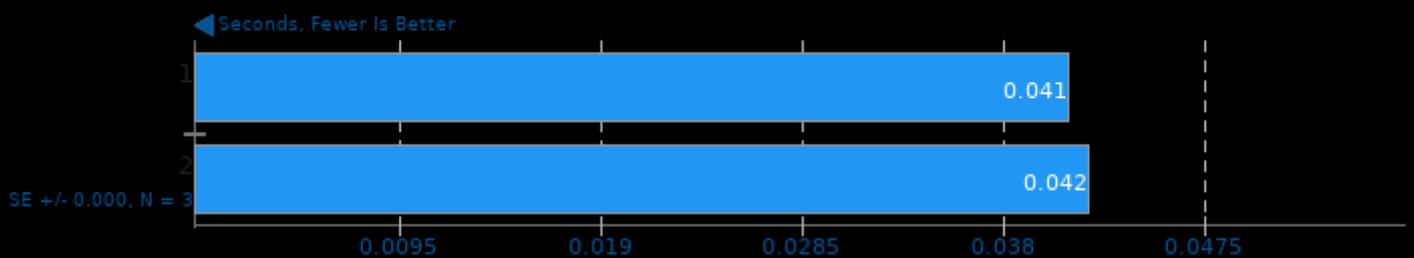
### PyHPC Benchmarks 2.1

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



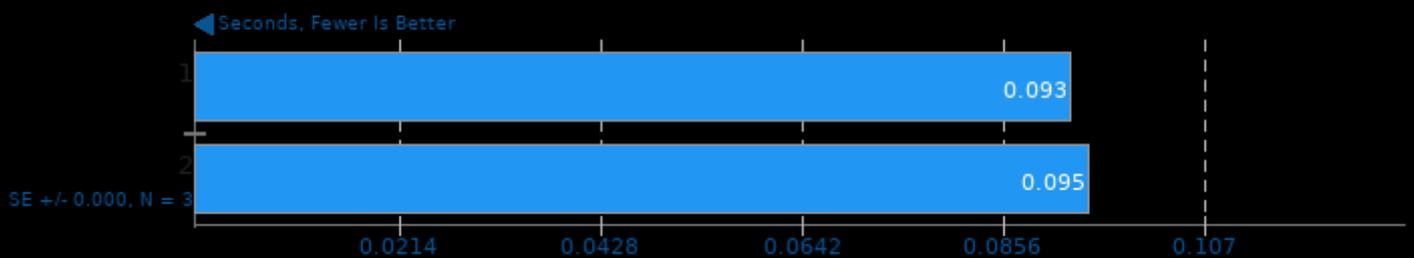
### PyHPC Benchmarks 2.1

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



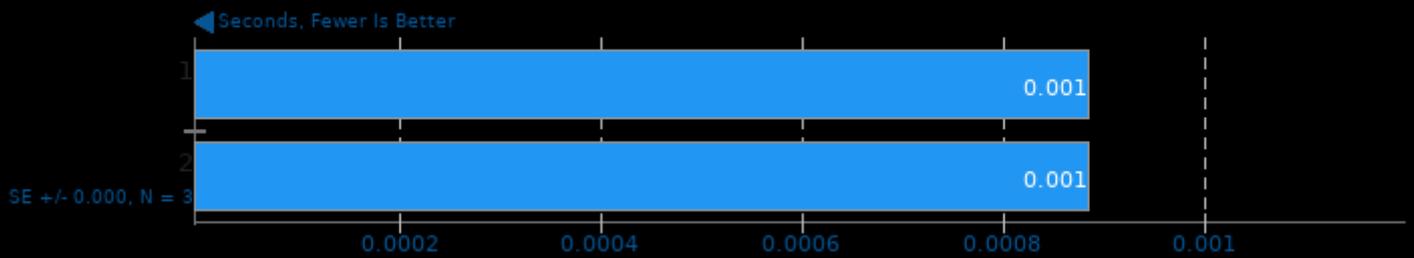
### PyHPC Benchmarks 2.1

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



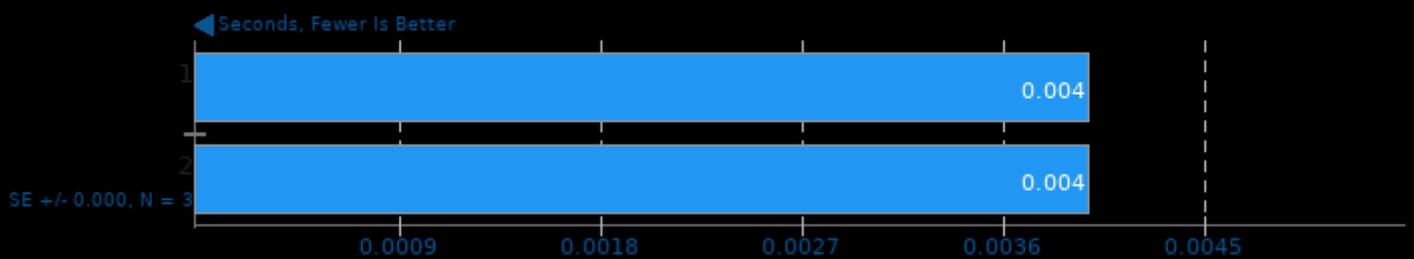
### PyHPC Benchmarks 2.1

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



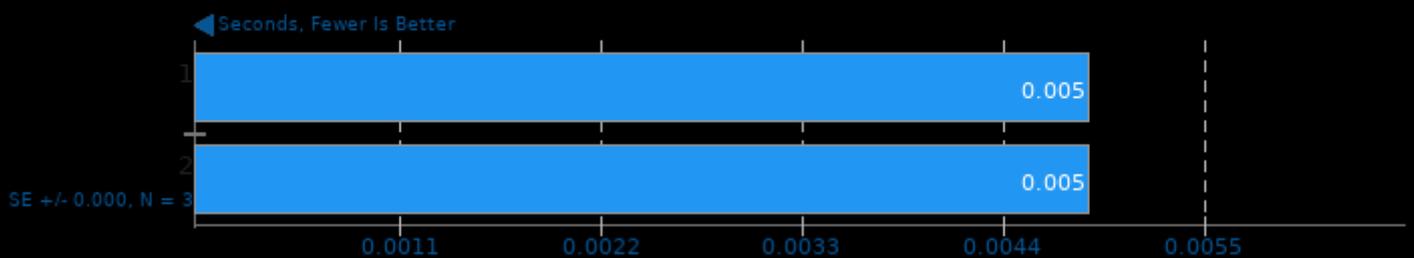
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Theano - Project Size: 16384 - Benchmark: Isonutral Mixing



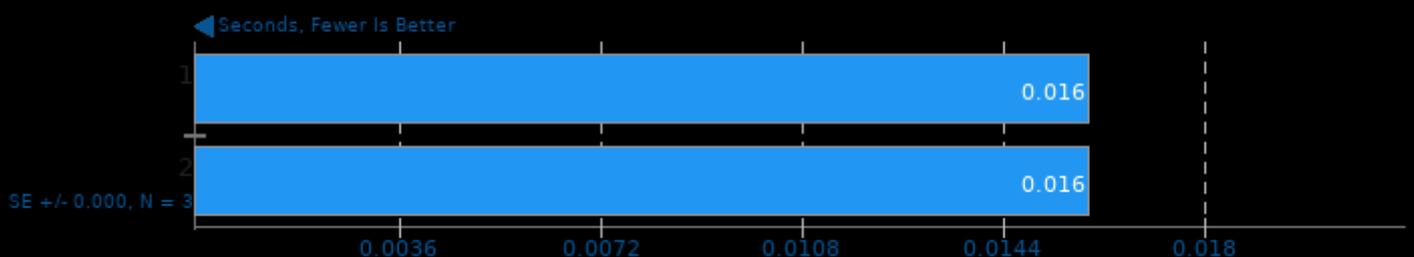
### PyHPC Benchmarks 2.1

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



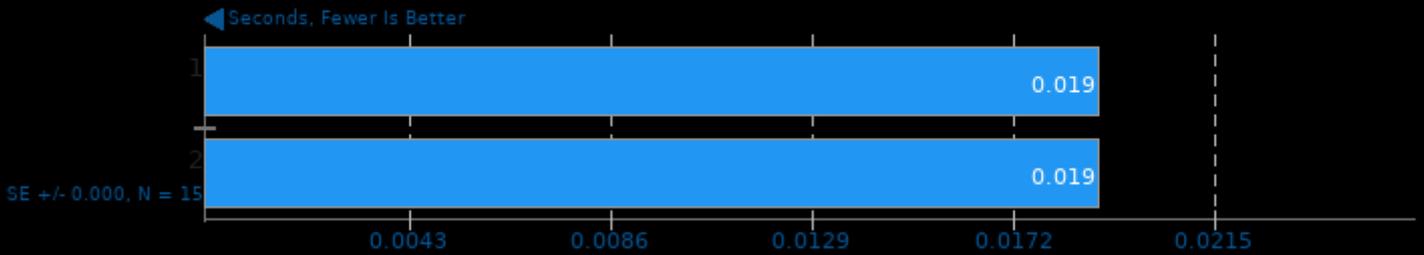
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Theano - Project Size: 65536 - Benchmark: Isonutral Mixing



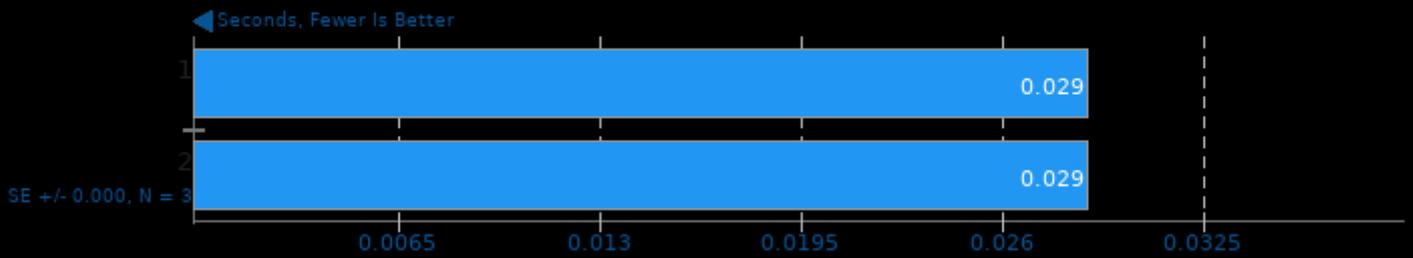
### PyHPC Benchmarks 2.1

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



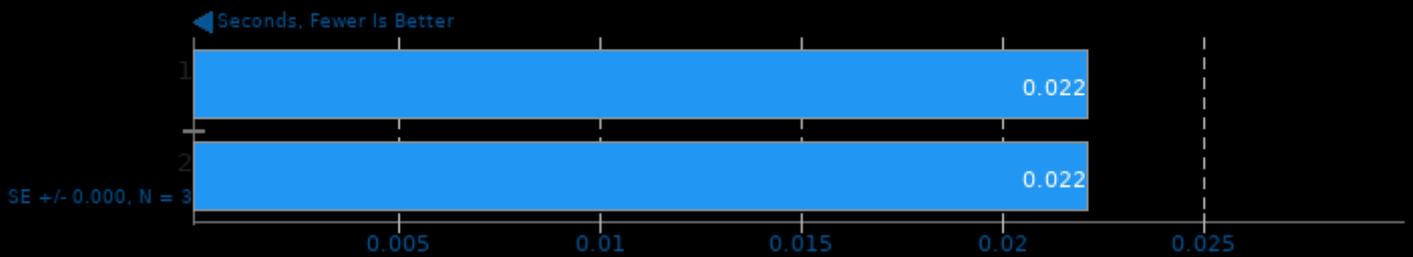
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Bohrium - Project Size: 16384 - Benchmark: Isonutral Mixing



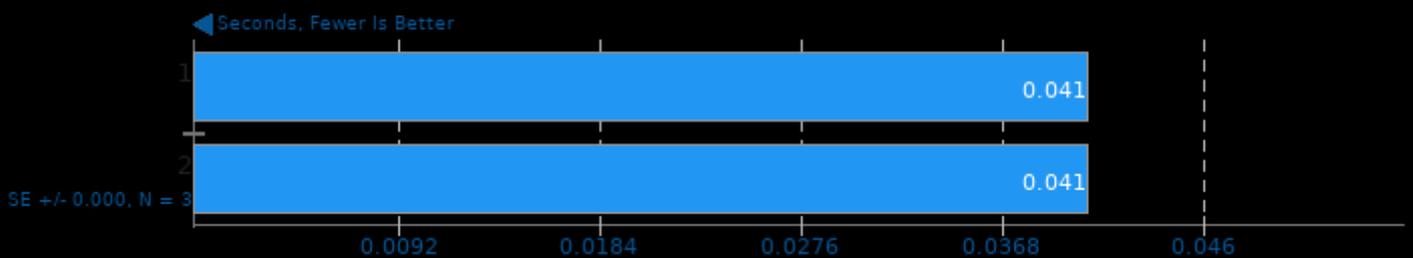
### PyHPC Benchmarks 2.1

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



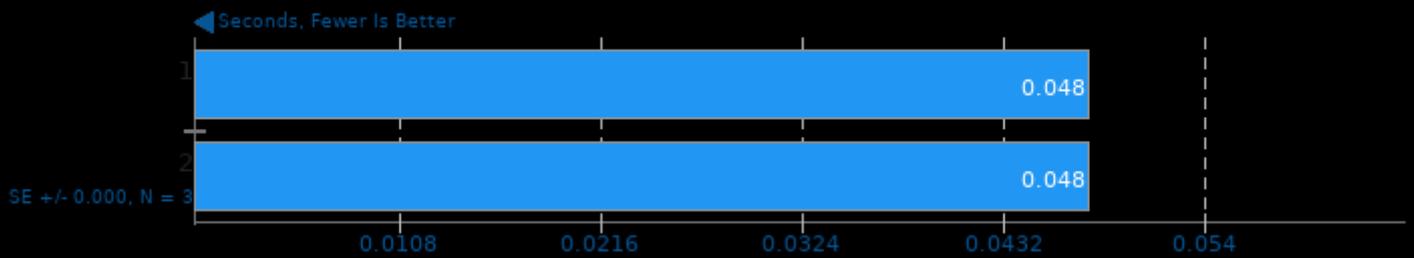
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Bohrium - Project Size: 65536 - Benchmark: Isonutral Mixing



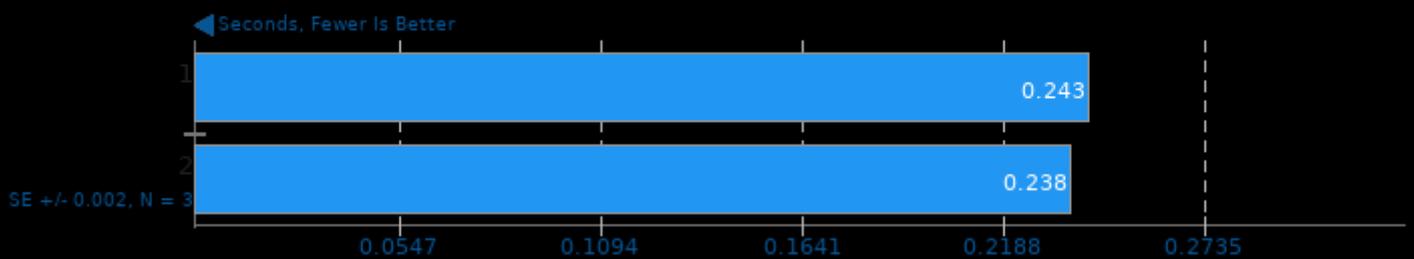
### PyHPC Benchmarks 2.1

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



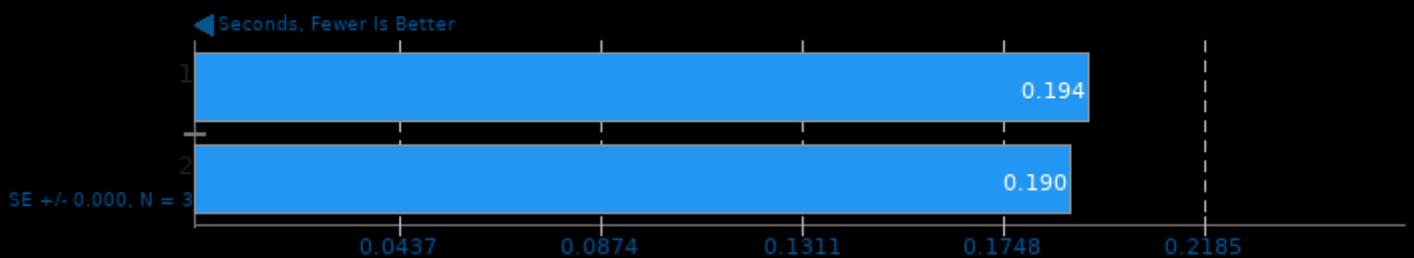
### PyHPC Benchmarks 2.1

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



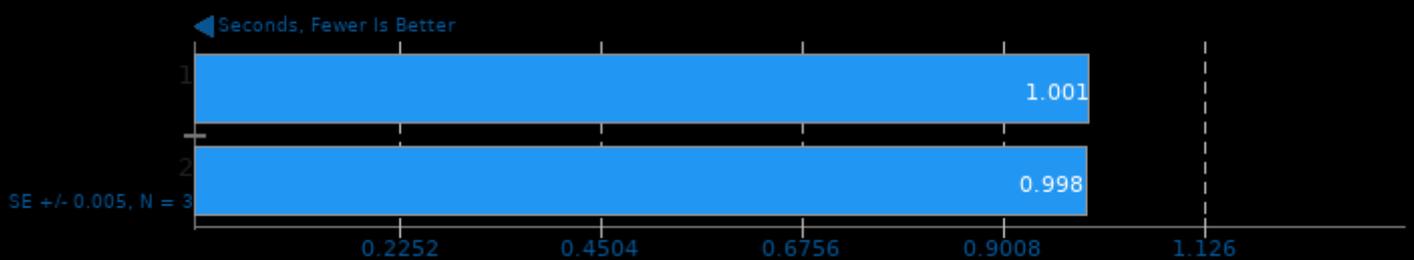
### PyHPC Benchmarks 2.1

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



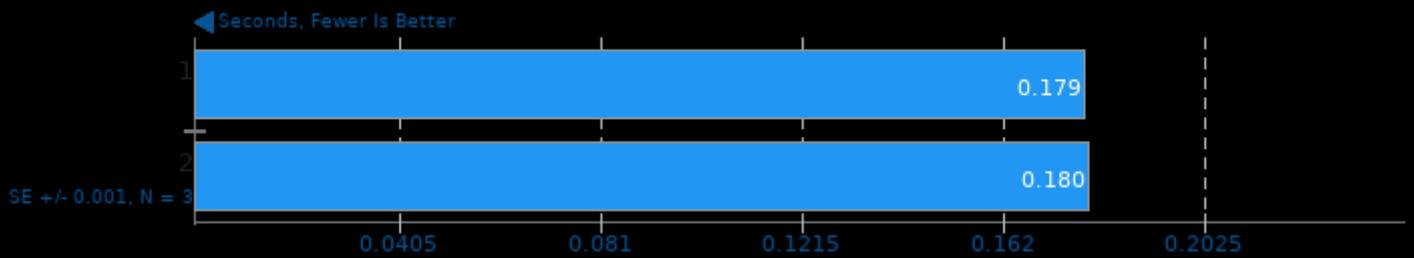
### PyHPC Benchmarks 2.1

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



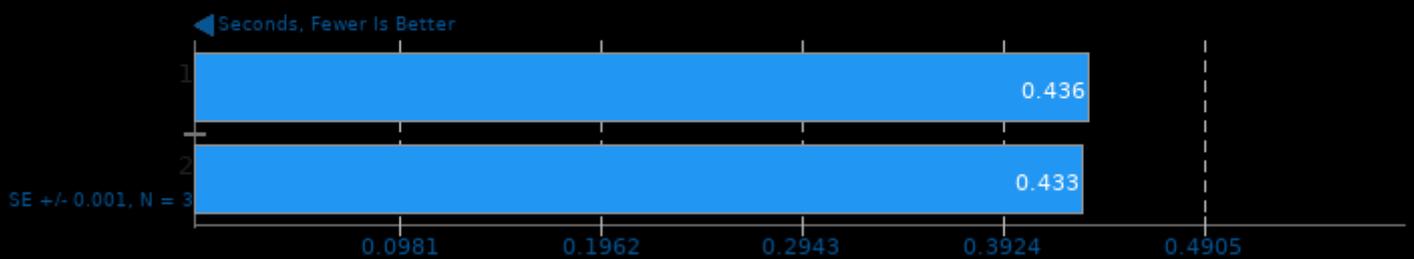
### PyHPC Benchmarks 2.1

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



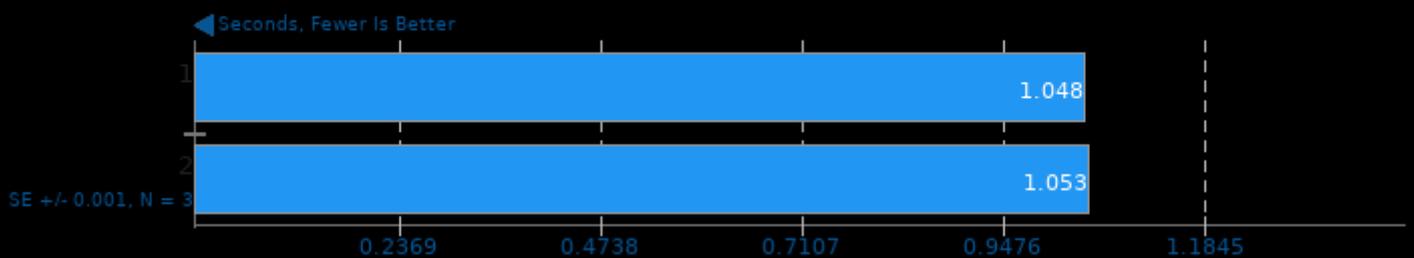
### PyHPC Benchmarks 2.1

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



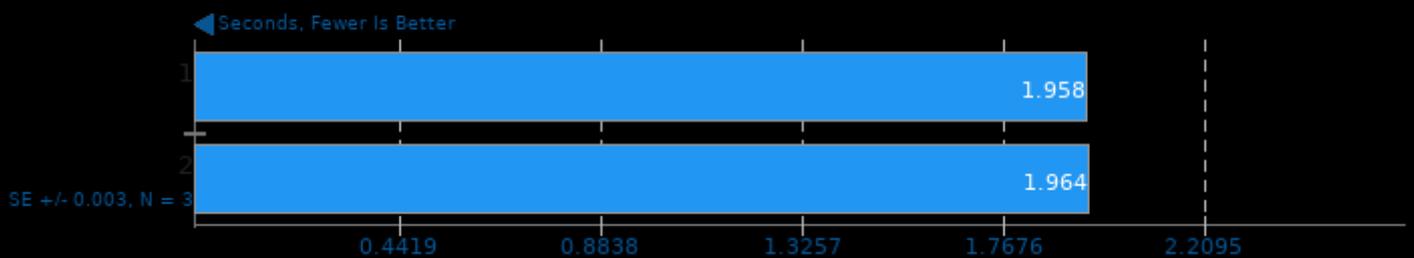
### PyHPC Benchmarks 2.1

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



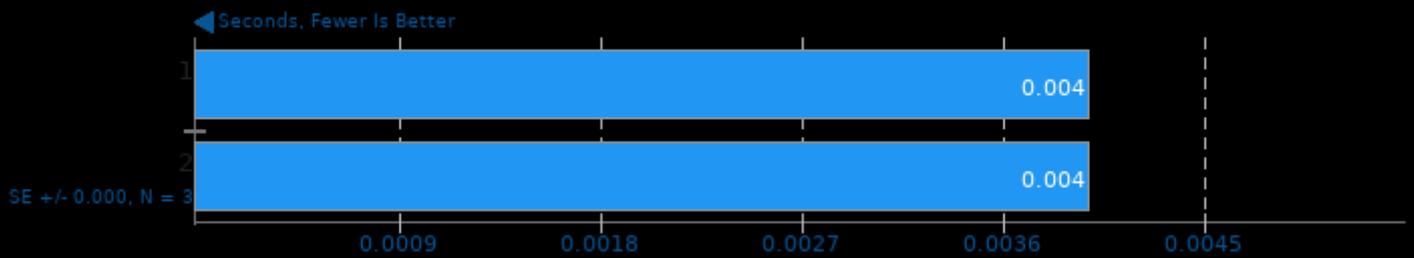
### PyHPC Benchmarks 2.1

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



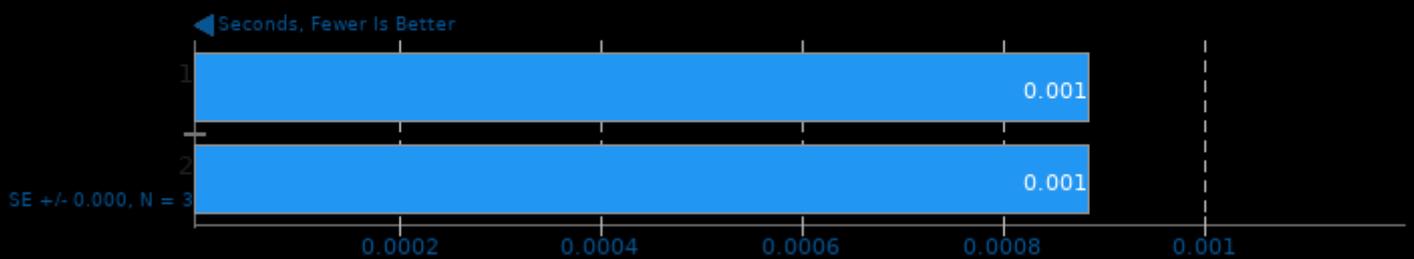
### PyHPC Benchmarks 2.1

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



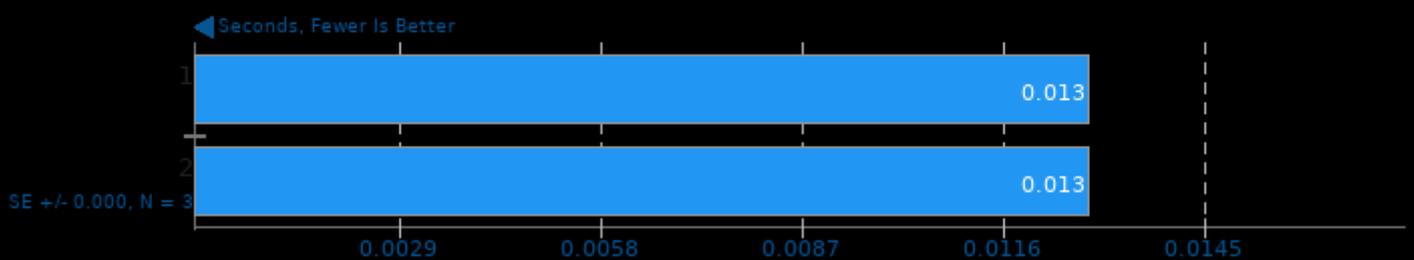
### PyHPC Benchmarks 2.1

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



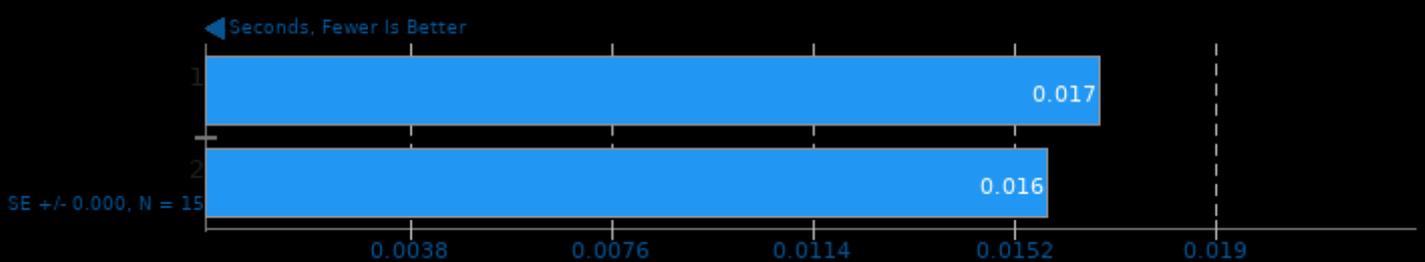
### PyHPC Benchmarks 2.1

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



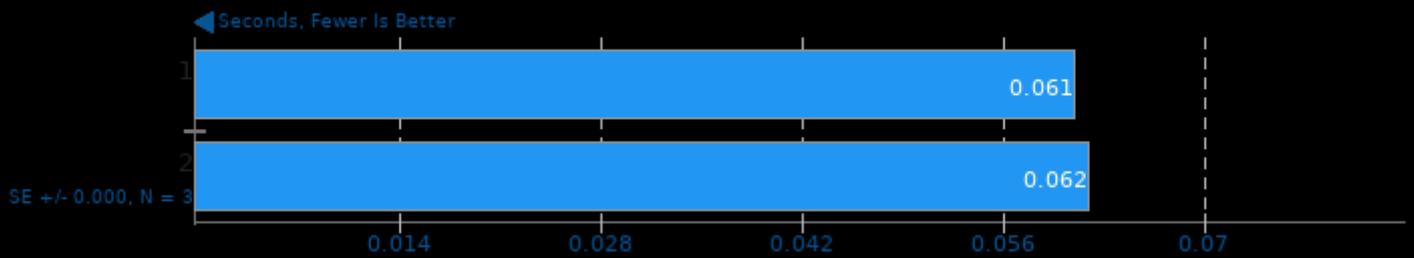
### PyHPC Benchmarks 2.1

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



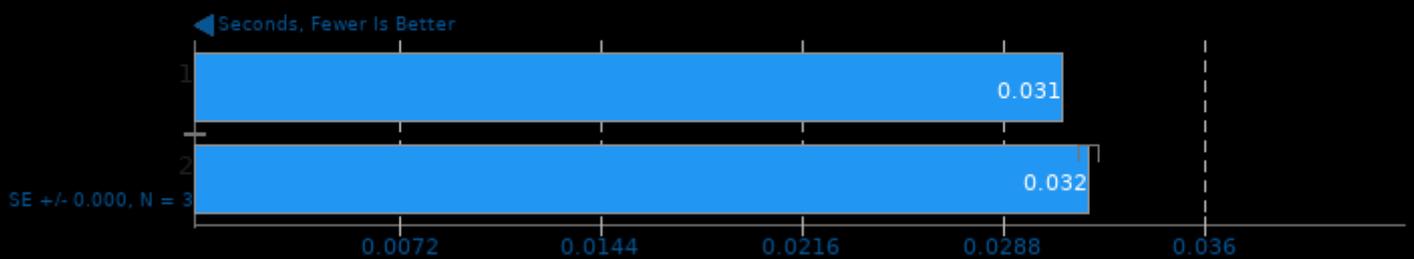
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Theano - Project Size: 262144 - Benchmark: Isonutral Mixing



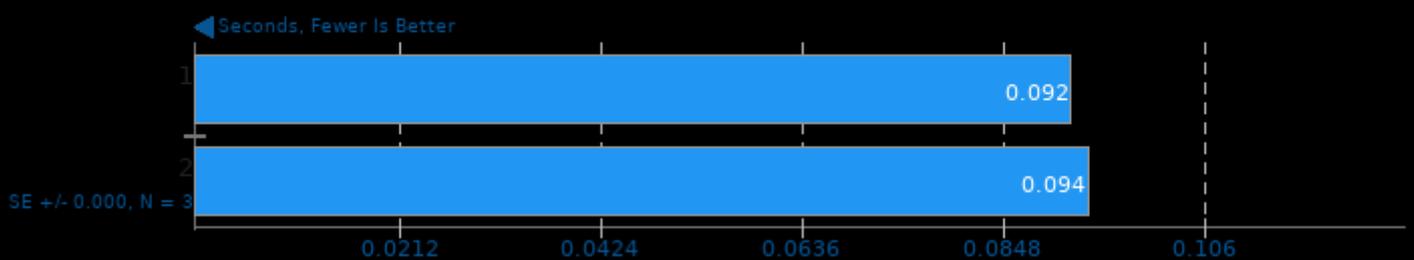
### PyHPC Benchmarks 2.1

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



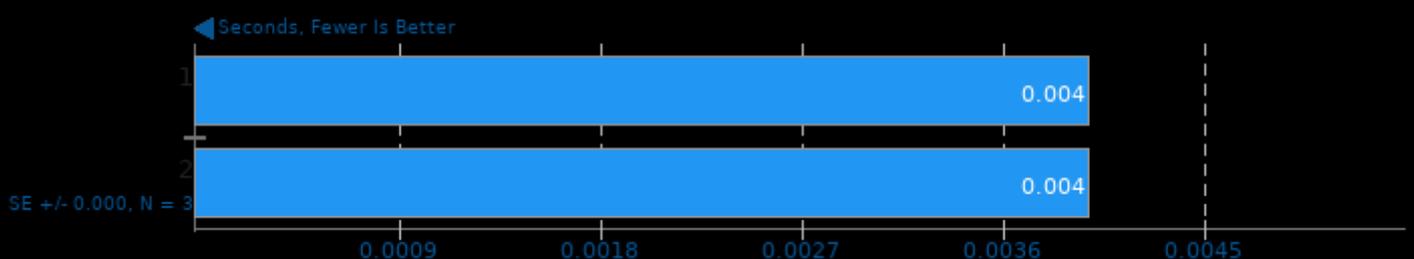
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Bohrium - Project Size: 262144 - Benchmark: Isonutral Mixing



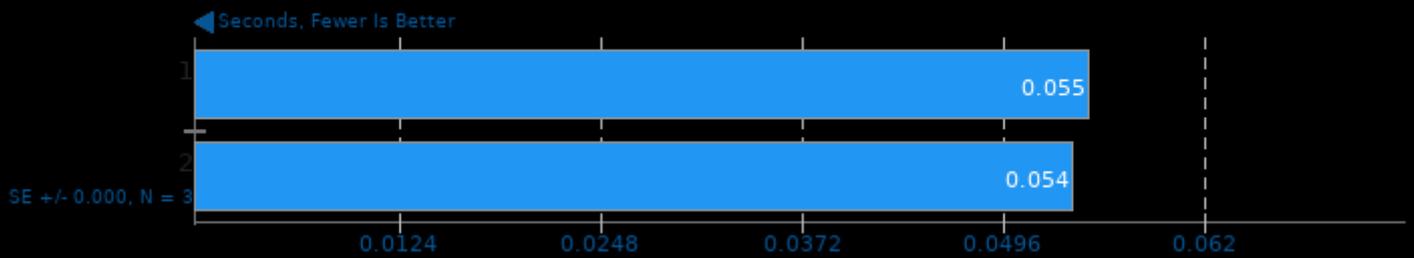
### PyHPC Benchmarks 2.1

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



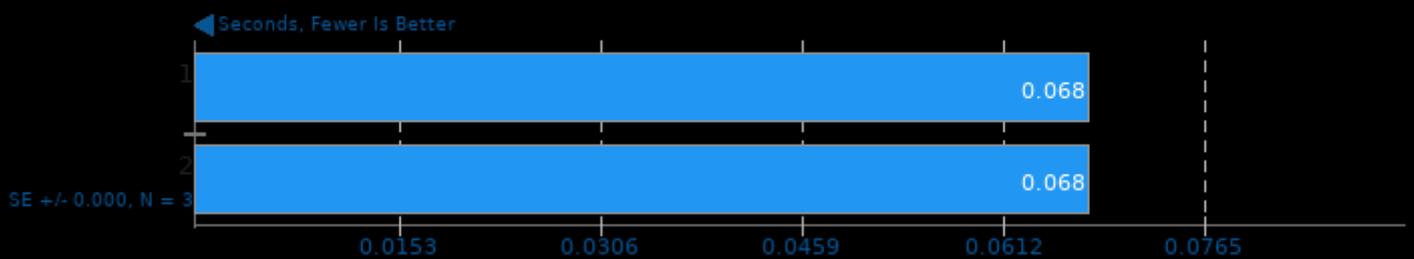
### PyHPC Benchmarks 2.1

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



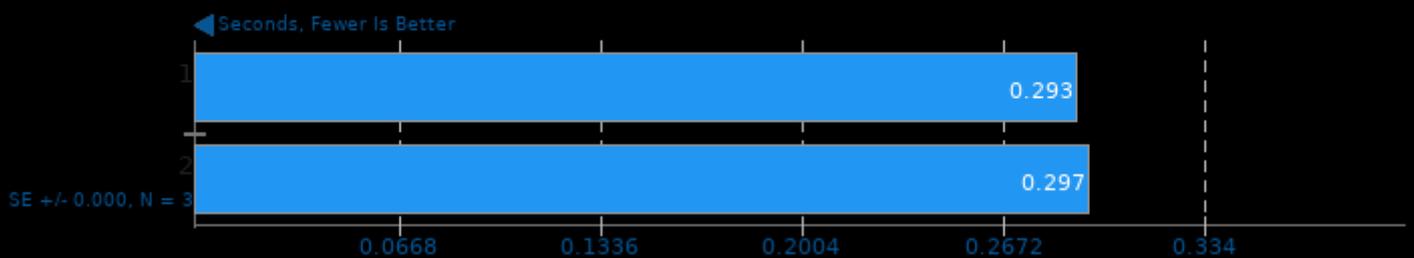
### PyHPC Benchmarks 2.1

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



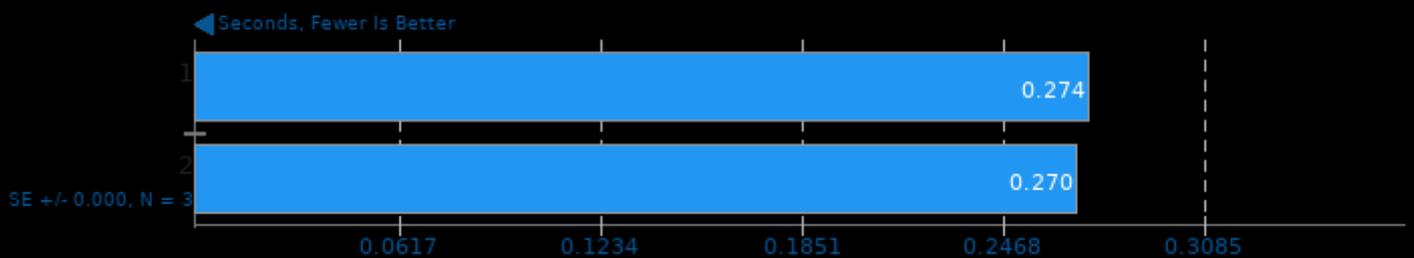
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Theano - Project Size: 1048576 - Benchmark: Isonutral Mixing



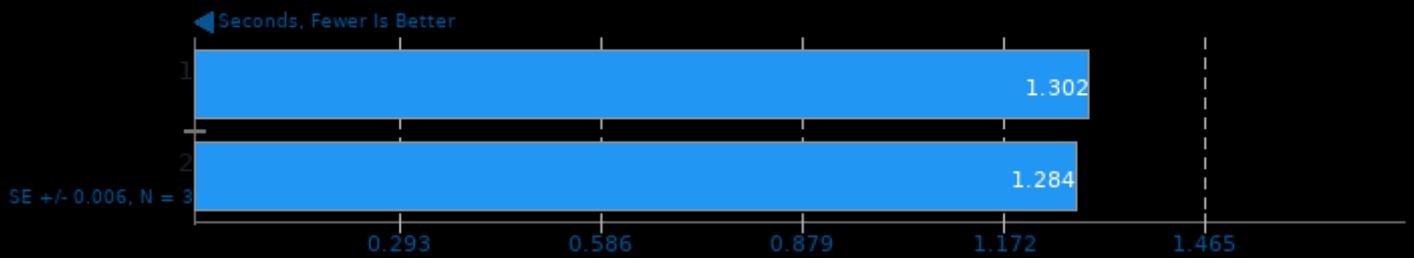
### PyHPC Benchmarks 2.1

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



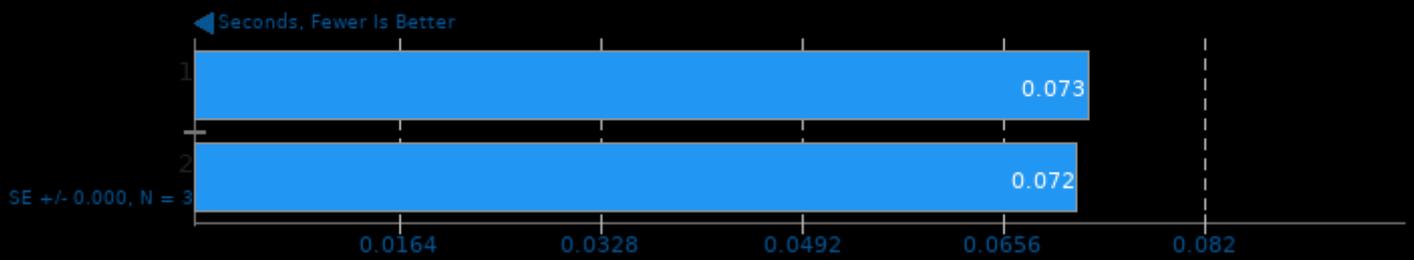
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Theano - Project Size: 4194304 - Benchmark: Isonneutral Mixing



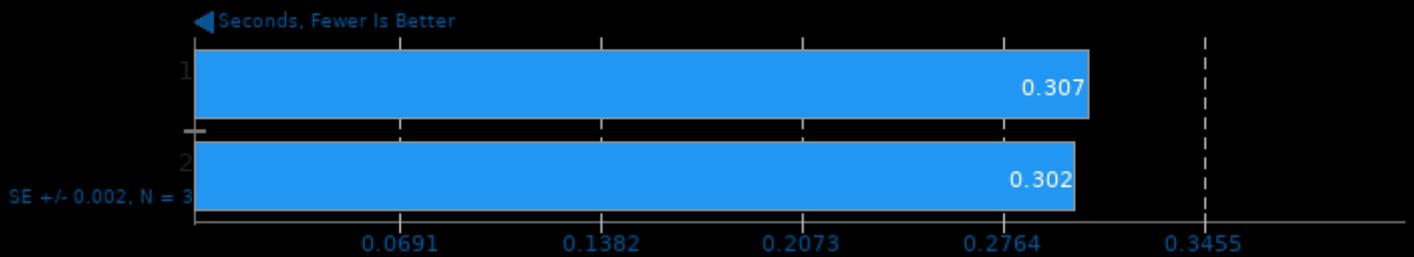
### PyHPC Benchmarks 2.1

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



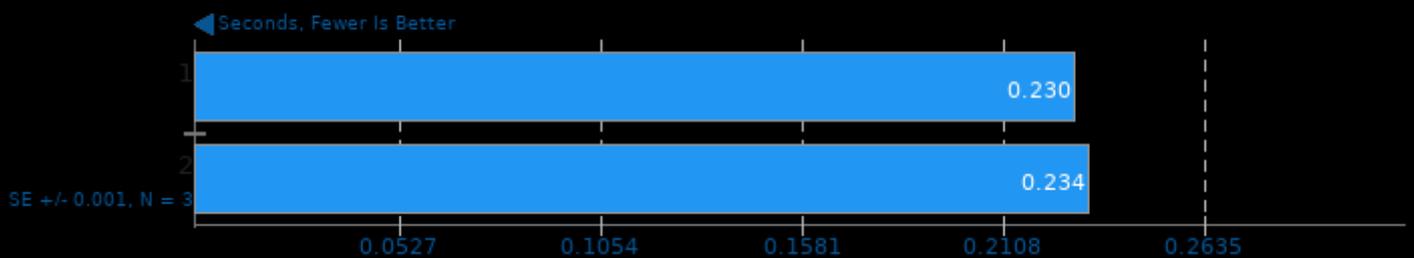
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Bohrium - Project Size: 1048576 - Benchmark: Isonneutral Mixing



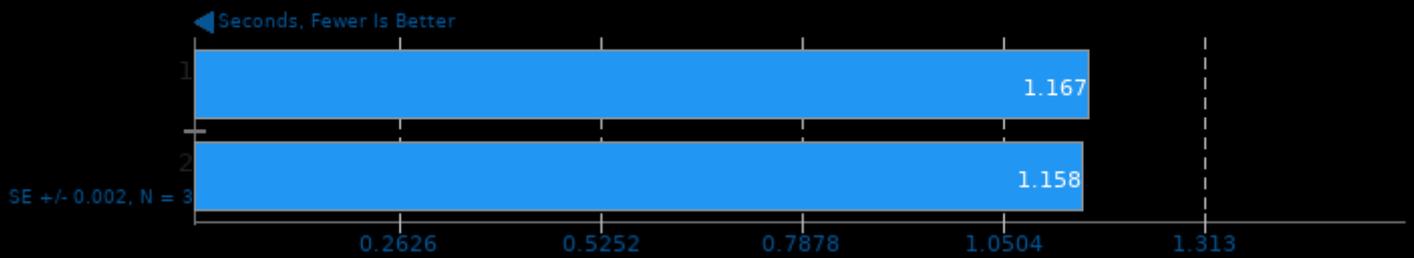
### PyHPC Benchmarks 2.1

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



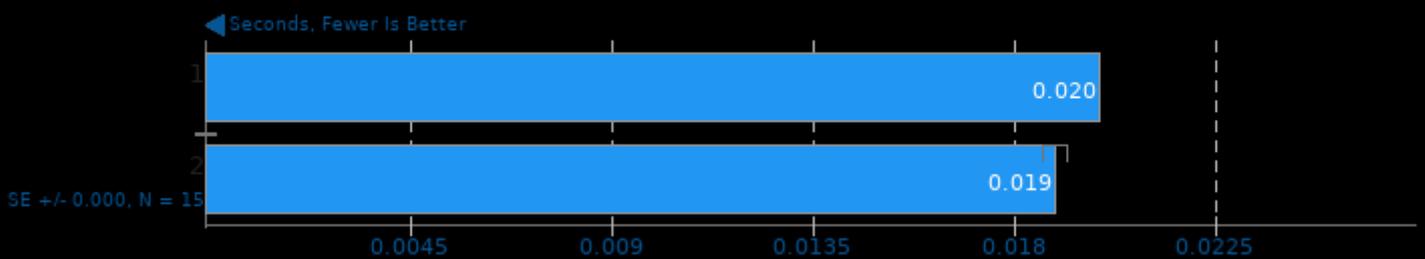
### PyHPC Benchmarks 2.1

Device: CPU - Backend: Bohrium - Project Size: 4194304 - Benchmark: Isonneutral Mixing



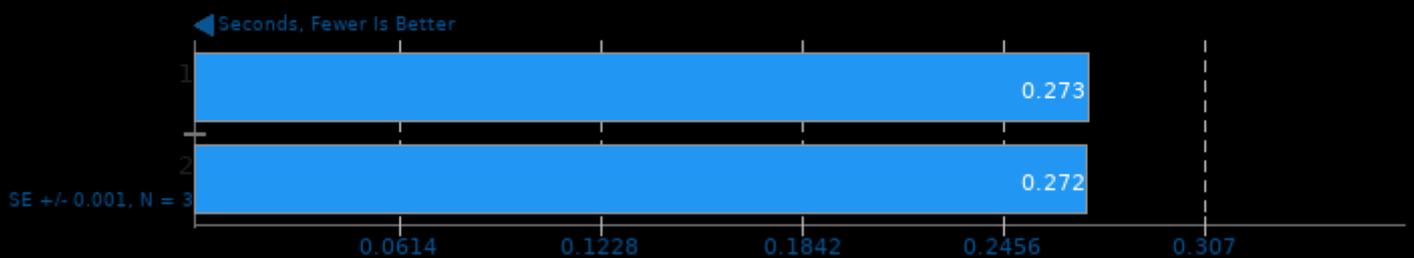
### PyHPC Benchmarks 2.1

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



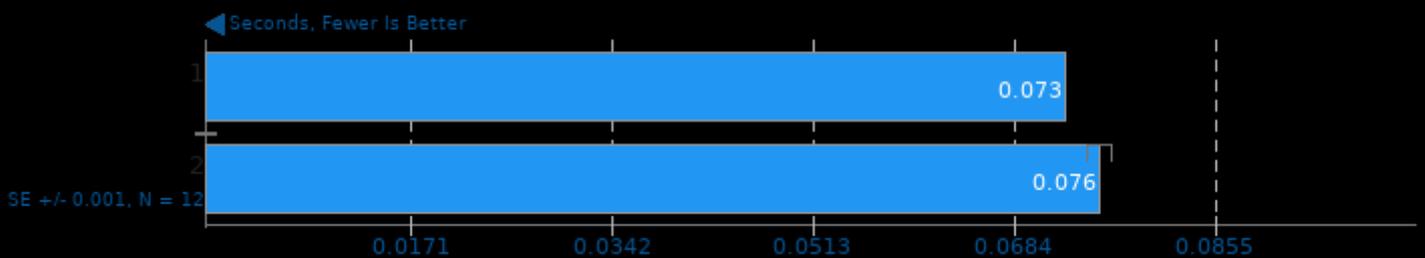
### PyHPC Benchmarks 2.1

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



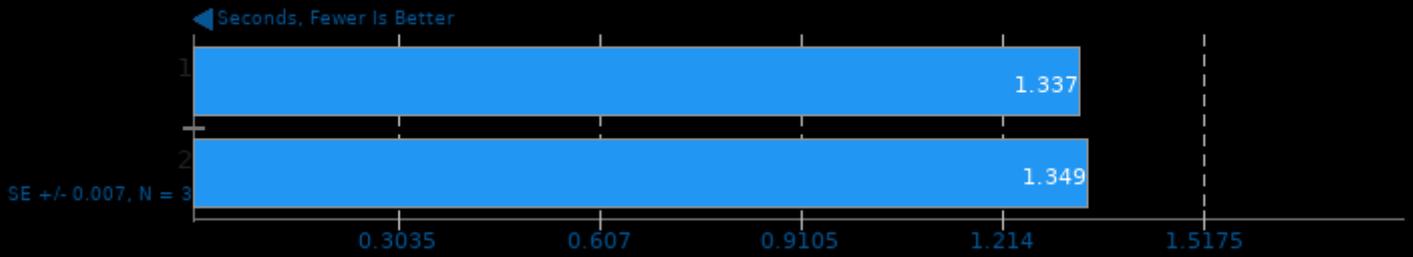
### PyHPC Benchmarks 2.1

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



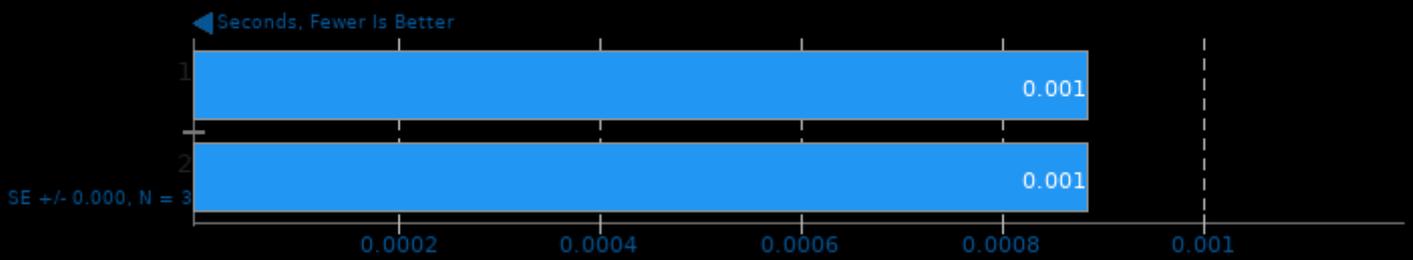
### PyHPC Benchmarks 2.1

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



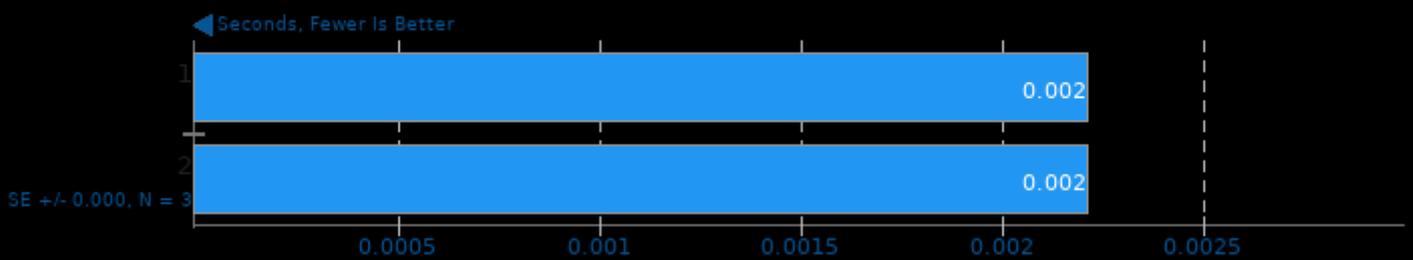
### PyHPC Benchmarks 2.1

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



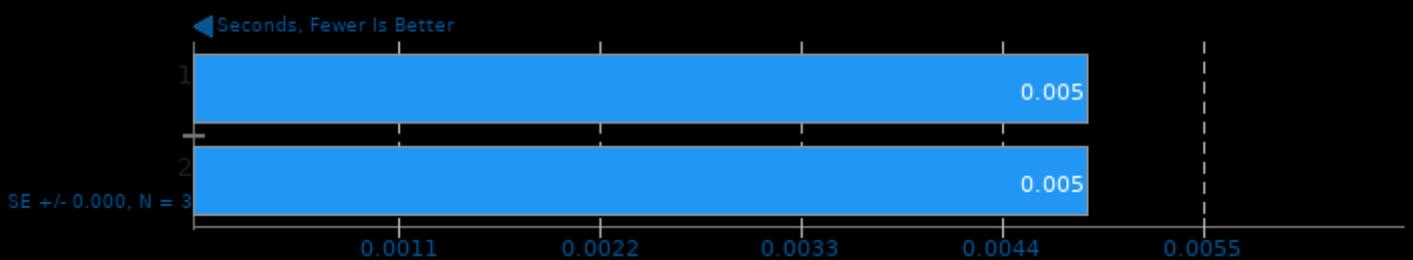
### PyHPC Benchmarks 2.1

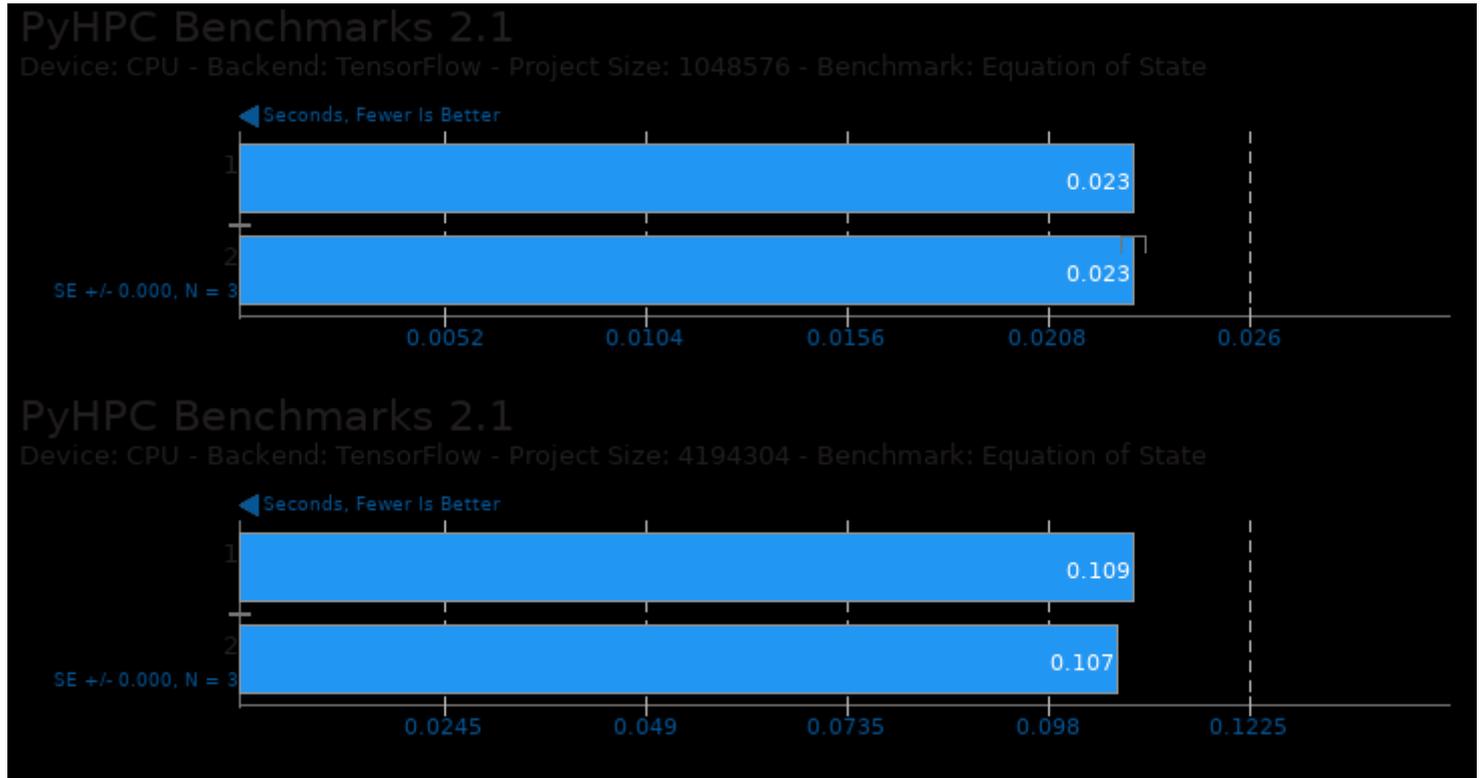
Device: CPU - Backend: TensorFlow - Project Size: 65536 - Benchmark: Equation of State



### PyHPC Benchmarks 2.1

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





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