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pyhpc 3200U

AMD Ryzen 3 3200U testing with a MOTILE PF4PU1F (N.1.03 BIOS) and AMD Picasso 512MB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 68% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.004x the speed of the slowest (3). 2 was 0.998x the speed of 1 and 3 was 0.998x the speed of 2.

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

PyHPC Benchmarks (Device: CPU - Backend: Numba - Project Size: 65536 - Benchmark: Equation of State) at 1.2x
PyHPC Benchmarks (Device: CPU - Backend: TensorFlow - Project Size: 65536 - Benchmark: Equation of State) at 1.167x
PyHPC Benchmarks (Device: CPU - Backend: TensorFlow - Project Size: 262144 - Benchmark: Equation of State) at 1.105x
PyHPC Benchmarks (Device: CPU - Backend: PyTorch - Project Size: 262144 - Benchmark: Equation of State) at 1.1x
PyHPC Benchmarks (Device: CPU - Backend: Theano - Project Size: 4194304 - Benchmark: Equation of State) at 1.084x
PyHPC Benchmarks (Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Equation of State) at

1.059x
PyHPC Benchmarks (Device: CPU - Backend: JAX - Project Size: 4194304 - Benchmark: Equation of State) at 1.049x
PyHPC Benchmarks (Device: CPU - Backend: Bohrium - Project Size: 4194304 - Benchmark: Equation of State) at 1.037x
PyHPC Benchmarks (Device: CPU - Backend: JAX - Project Size: 262144 - Benchmark: Isoneutral Mixing) at 1.035x
PyHPC Benchmarks (Device: CPU - Backend: Numpy - Project Size: 262144 - Benchmark: Isoneutral Mixing) at 1.033x.

Test Systems:

1

2

3

Processor: AMD Ryzen 3 3200U @ 2.60GHz (2 Cores / 4 Threads), Motherboard: MOTILE PF4PU1F (N.1.03 BIOS), Chipset: AMD Raven/Raven2, Memory: 3584MB, Disk: 128GB BIWIN SSD, Graphics: AMD Picasso 512MB (1200/1200MHz), Audio: AMD Raven/Raven2/Fenghuang, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Ubuntu 20.04, Kernel: 5.11.0-37-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.0.8 (LLVM 10.0.0), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8108102
Python Notes: Python 3.8.10
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 STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3
PyHPC Benchmarks - CPU - JAX - 16384 - Equation of State (sec)	0.001	0.001	0.001
PyHPC Benchmarks - CPU - JAX - 16384 - Isoneutral Mixing (sec)	0.005	0.005	0.005
PyHPC Benchmarks - CPU - JAX - 65536 - Equation of State (sec)	0.003	0.003	0.003
PyHPC Benchmarks - CPU - JAX - 65536 - Isoneutral Mixing (sec)	**0.032**	**0.031**	**0.031**
Normalized	96.88%	100%	100%
PyHPC Benchmarks - CPU - JAX - 262144 - Equation of State (sec)	0.012	0.012	0.012

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PyHPC Benchmarks - CPU - JAX - 262144 - Isoneutral Mixing (sec)	0.117	0.113	0.114
Normalized	96.58%	100%	99.12%
PyHPC Benchmarks - CPU - JAX - 1048576 - Equation of State (sec)	0.036	0.035	0.036
Normalized	97.22%	100%	97.22%
PyHPC Benchmarks - CPU - JAX - 1048576 - Isoneutral Mixing (sec)	0.476	0.464	0.462
Normalized	97.06%	99.57%	100%
PyHPC Benchmarks - CPU - JAX - 4194304 - Equation of State (sec)	0.149	0.142	0.143
Normalized	95.3%	100%	99.3%
PyHPC Benchmarks - CPU - Numba - 16384 - Equation of State (sec)	0.001	0.001	0.001
PyHPC Benchmarks - CPU - Numba - 16384 - Isoneutral Mixing (sec)	0.005	0.005	0.005
PyHPC Benchmarks - CPU - Numba - 65536 - Equation of State (sec)	0.005	0.006	0.005
Normalized	100%	83.33%	100%
PyHPC Benchmarks - CPU - Numba - 65536 - Isoneutral Mixing (sec)	0.023	0.023	0.023
PyHPC Benchmarks - CPU - Numpy - 16384 - Equation of State (sec)	0.005	0.005	0.005
PyHPC Benchmarks - CPU - Numpy - 16384 - Isoneutral Mixing (sec)	0.011	0.011	0.011
PyHPC Benchmarks - CPU - Numpy - 65536 - Equation of State (sec)	0.026	0.026	0.026
PyHPC Benchmarks - CPU - Numpy - 65536 - Isoneutral Mixing (sec)	0.055	0.055	0.054
Normalized	98.18%	98.18%	100%
PyHPC Benchmarks - CPU - Numba - 262144 - Equation of State (sec)	0.02	0.02	0.02
PyHPC Benchmarks - CPU - Numba - 262144 - Isoneutral Mixing (sec)	0.087	0.087	0.087
PyHPC Benchmarks - CPU - Numpy - 262144 - Equation of State (sec)	0.142	0.138	0.139
Normalized	97.18%	100%	99.28%
PyHPC Benchmarks - CPU - Numpy - 262144 - Isoneutral Mixing (sec)	0.253	0.249	0.245
Normalized	96.84%	98.39%	100%
PyHPC Benchmarks - CPU - Theano - 16384 - Equation of State (sec)	0.002	0.002	0.002
PyHPC Benchmarks - CPU - Theano - 16384 - Isoneutral Mixing (sec)	0.008	0.008	0.008
PyHPC Benchmarks - CPU - Theano - 65536 - Equation of State (sec)	0.007	0.007	0.007
PyHPC Benchmarks - CPU - Theano - 65536 - Isoneutral Mixing (sec)	0.033	0.033	0.033

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PyHPC Benchmarks - CPU - Bohrium - 16384 - Equation of State (sec)	0.038	0.038	0.039
Normalized	100%	100%	97.44%
PyHPC Benchmarks - CPU - Bohrium - 16384 - Isoneutral Mixing (sec)	0.054	0.055	0.055
Normalized	100%	98.18%	98.18%
PyHPC Benchmarks - CPU - Bohrium - 65536 - Equation of State (sec)	0.043	0.043	0.043
PyHPC Benchmarks - CPU - Bohrium - 65536 - Isoneutral Mixing (sec)	0.079	0.08	0.081
Normalized	100%	98.75%	97.53%
PyHPC Benchmarks - CPU - Numba - 1048576 - Equation of State (sec)	0.082	0.082	0.082
PyHPC Benchmarks - CPU - Numba - 1048576 - Isoneutral Mixing (sec)	0.393	0.391	0.391
Normalized	99.49%	100%	100%
PyHPC Benchmarks - CPU - Numba - 4194304 - Equation of State (sec)	0.325	0.327	0.328
Normalized	100%	99.39%	99.09%
PyHPC Benchmarks - CPU - Numba - 4194304 - Isoneutral Mixing (sec)	1.632	1.618	1.622
Normalized	99.14%	100%	99.75%
PyHPC Benchmarks - CPU - Numpy - 1048576 - Equation of State (sec)	0.702	0.695	0.702
Normalized	99%	100%	99%
PyHPC Benchmarks - CPU - Numpy - 1048576 - Isoneutral Mixing (sec)	1.148	1.14	1.138
Normalized	99.13%	99.82%	100%
PyHPC Benchmarks - CPU - Numpy - 4194304 - Equation of State (sec)	4.827	4.779	5.063
Normalized	99.01%	100%	94.39%
PyHPC Benchmarks - CPU - Numpy - 4194304 - Isoneutral Mixing (sec)	4.663	4.655	4.641
Normalized	99.53%	99.7%	100%
PyHPC Benchmarks - CPU - PyTorch - 16384 - Equation of State (sec)	0.001	0.001	0.001
PyHPC Benchmarks - CPU - PyTorch - 16384 - Isoneutral Mixing (sec)	0.008	0.008	0.008
PyHPC Benchmarks - CPU - PyTorch - 65536 - Equation of State (sec)	0.003	0.003	0.003
PyHPC Benchmarks - CPU - PyTorch - 65536 - Isoneutral Mixing (sec)	0.034	0.034	0.034
PyHPC Benchmarks - CPU - Theano - 262144 - Equation of State (sec)	0.024	0.024	0.024
PyHPC Benchmarks - CPU - Theano - 262144 - Isoneutral Mixing (sec)	0.149	0.149	0.149
PyHPC Benchmarks - CPU - Bohrium - 262144 - Equation of State (sec)	0.058	0.058	0.058

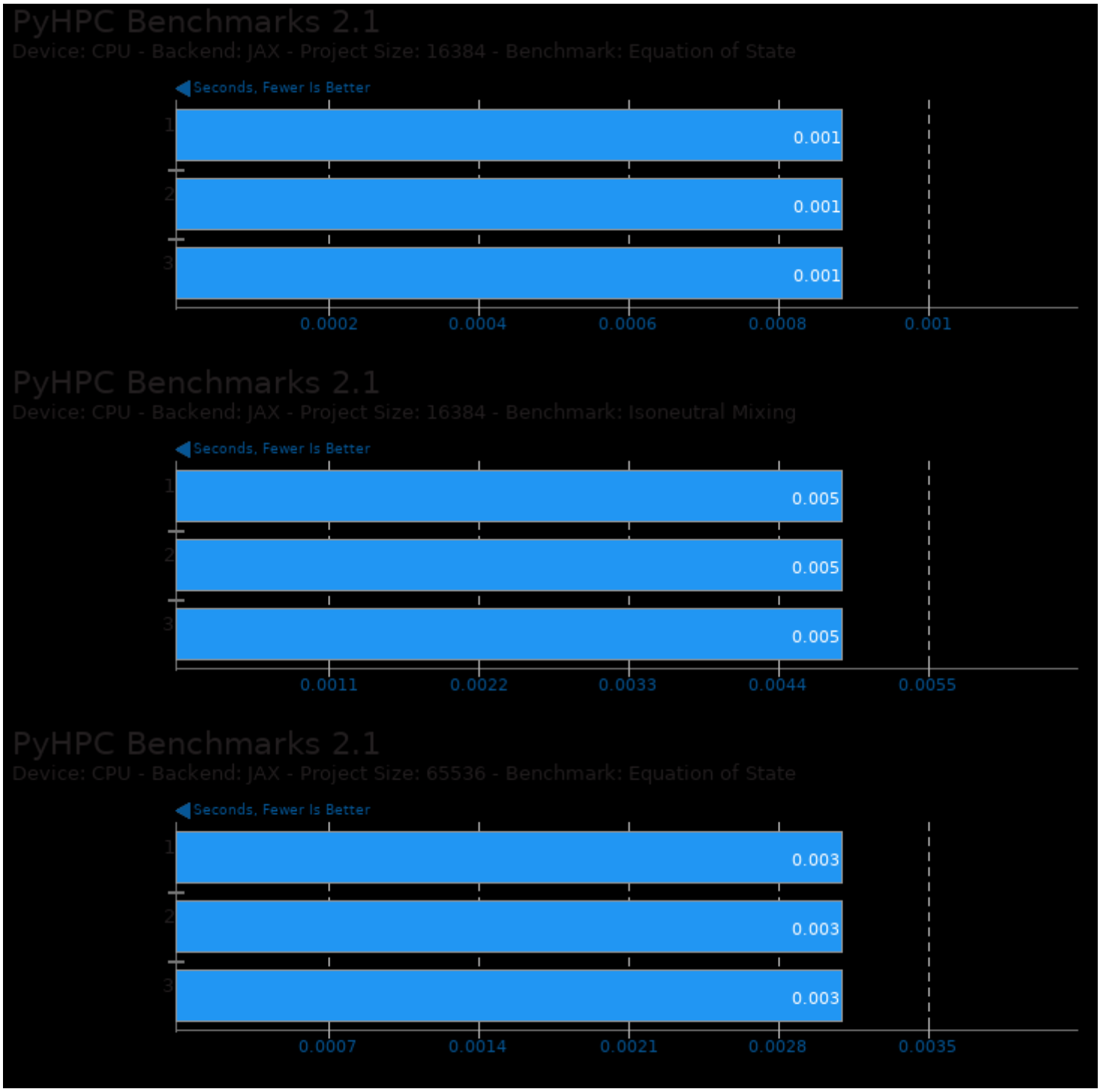
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PyHPC Benchmarks - CPU - Bohrium - 262144 - Isoneutral Mixing (sec)	0.169	0.169	0.168
Normalized	99.41%	99.41%	100%
PyHPC Benchmarks - CPU - PyTorch - 262144 - Equation of State (sec)	0.01	0.01	0.011
Normalized	100%	100%	90.91%
PyHPC Benchmarks - CPU - PyTorch - 262144 - Isoneutral Mixing (sec)	0.163	0.164	0.164
Normalized	100%	99.39%	99.39%
PyHPC Benchmarks - CPU - Theano - 1048576 - Equation of State (sec)	0.098	0.099	0.101
Normalized	100%	98.99%	97.03%
PyHPC Benchmarks - CPU - Theano - 1048576 - Isoneutral Mixing (sec)	0.634	0.635	0.635
Normalized	100%	99.84%	99.84%
PyHPC Benchmarks - CPU - Theano - 4194304 - Equation of State (sec)	0.393	0.393	0.426
Normalized	100%	100%	92.25%
PyHPC Benchmarks - CPU - Bohrium - 1048576 - Equation of State (sec)	0.122	0.123	0.124
Normalized	100%	99.19%	98.39%
PyHPC Benchmarks - CPU - Bohrium - 1048576 - Isoneutral Mixing (sec)	0.53	0.532	0.531
Normalized	100%	99.62%	99.81%
PyHPC Benchmarks - CPU - Bohrium - 4194304 - Equation of State (sec)	0.378	0.391	0.377
Normalized	99.74%	96.42%	100%
PyHPC Benchmarks - CPU - Bohrium - 4194304 - Isoneutral Mixing (sec)	2.3	2.296	2.266
Normalized	98.52%	98.69%	100%
PyHPC Benchmarks - CPU - PyTorch - 1048576 - Equation of State (sec)	0.044	0.044	0.045
Normalized	100%	100%	97.78%
PyHPC Benchmarks - CPU - PyTorch - 1048576 - Isoneutral Mixing (sec)	0.751	0.755	0.76
Normalized	100%	99.47%	98.82%
PyHPC Benchmarks - CPU - PyTorch - 4194304 - Equation of State (sec)	0.182	0.181	0.181
Normalized	99.45%	100%	100%
PyHPC Benchmarks - CPU - PyTorch - 4194304 - Isoneutral Mixing (sec)		3.159	
PyHPC Benchmarks - CPU - TensorFlow - 16384 - Equation of State (sec)	0.002	0.002	0.002
PyHPC Benchmarks - CPU - TensorFlow - 65536 - Equation of State (sec)	0.006	0.006	0.007
Normalized	100%	100%	85.71%
PyHPC Benchmarks - CPU - TensorFlow - 262144 - Equation of State (sec)	0.02	0.021	0.019
Normalized	95%	90.48%	100%

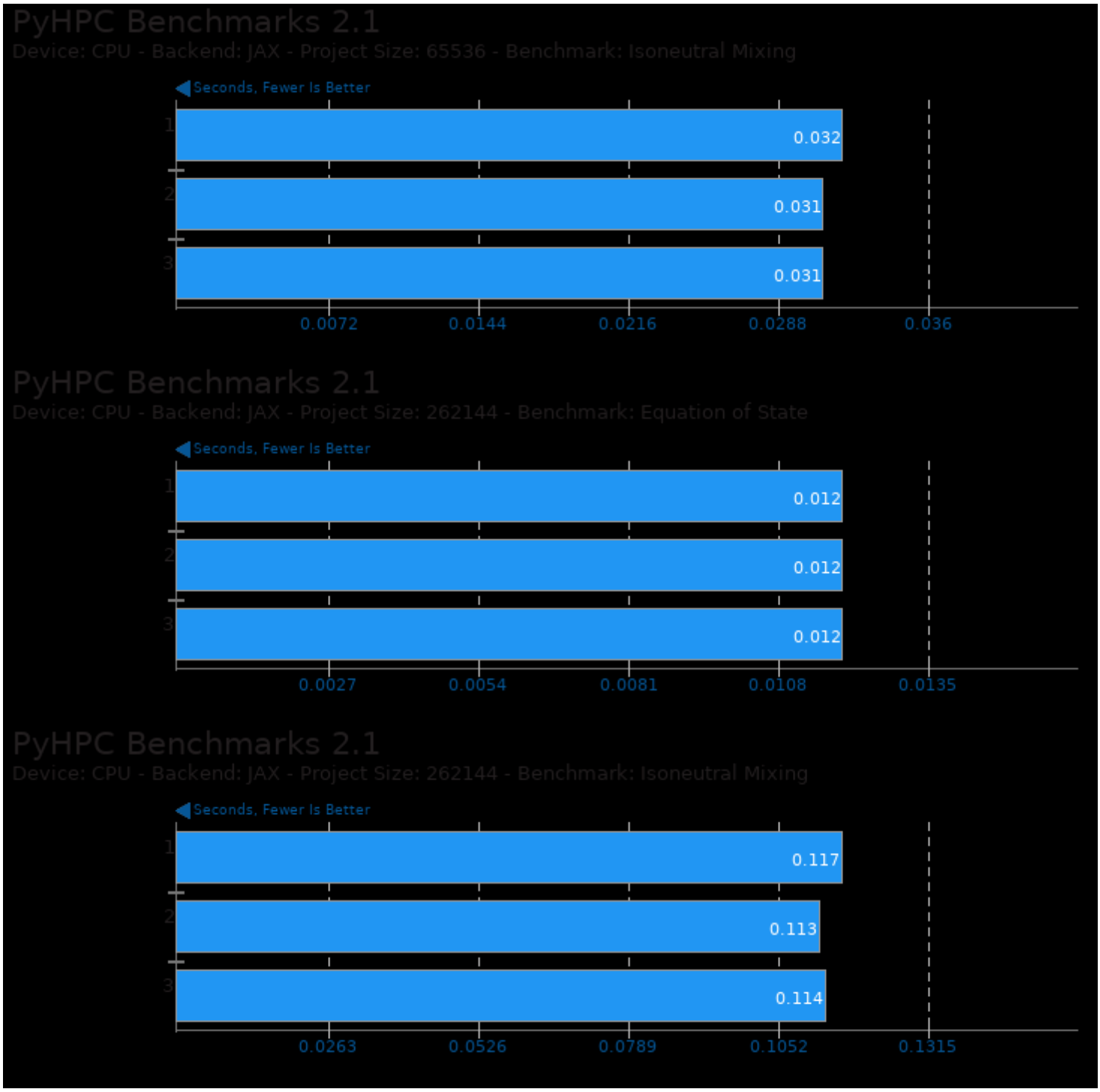
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PyHPC Benchmarks - CPU - TensorFlow - 1048576 - Equation of State (sec)	**0.056**	**0.057**	**0.056**
Normalized	100%	98.25%	100%
PyHPC Benchmarks - CPU - TensorFlow - 4194304 - Equation of State (sec)	**0.229**	**0.23**	**0.23**
Normalized	100%	99.57%	99.57%

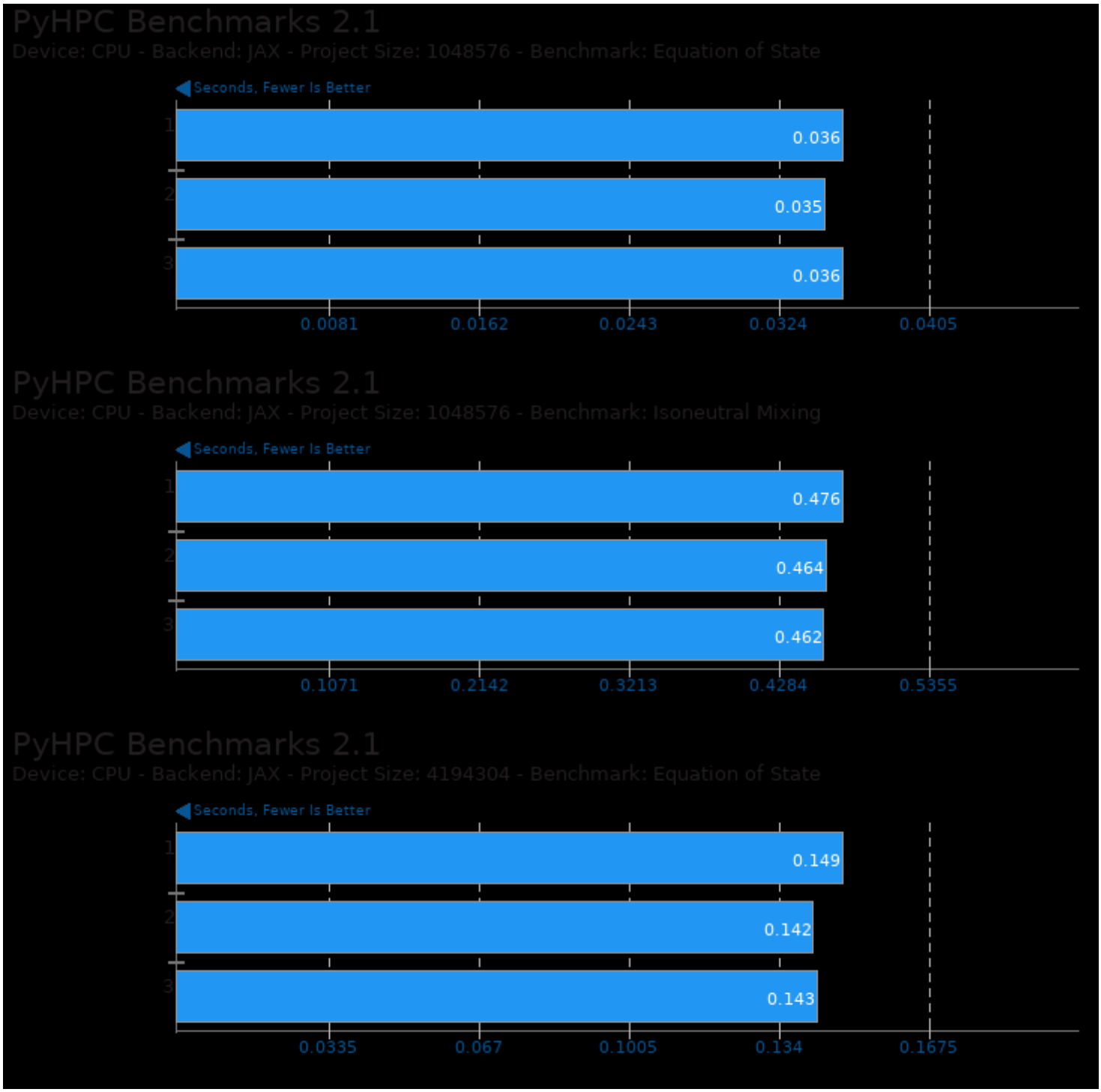
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PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.001
0.001
0.001
0.0002
0.0004
0.0006
0.0008
0.001
PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 16384 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.005
0.005
0.005
0.0011
0.0022
0.0033
0.0044
0.0055
PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.003
0.003
0.003
0.0007
0.0014
0.0021
0.0028
0.0035

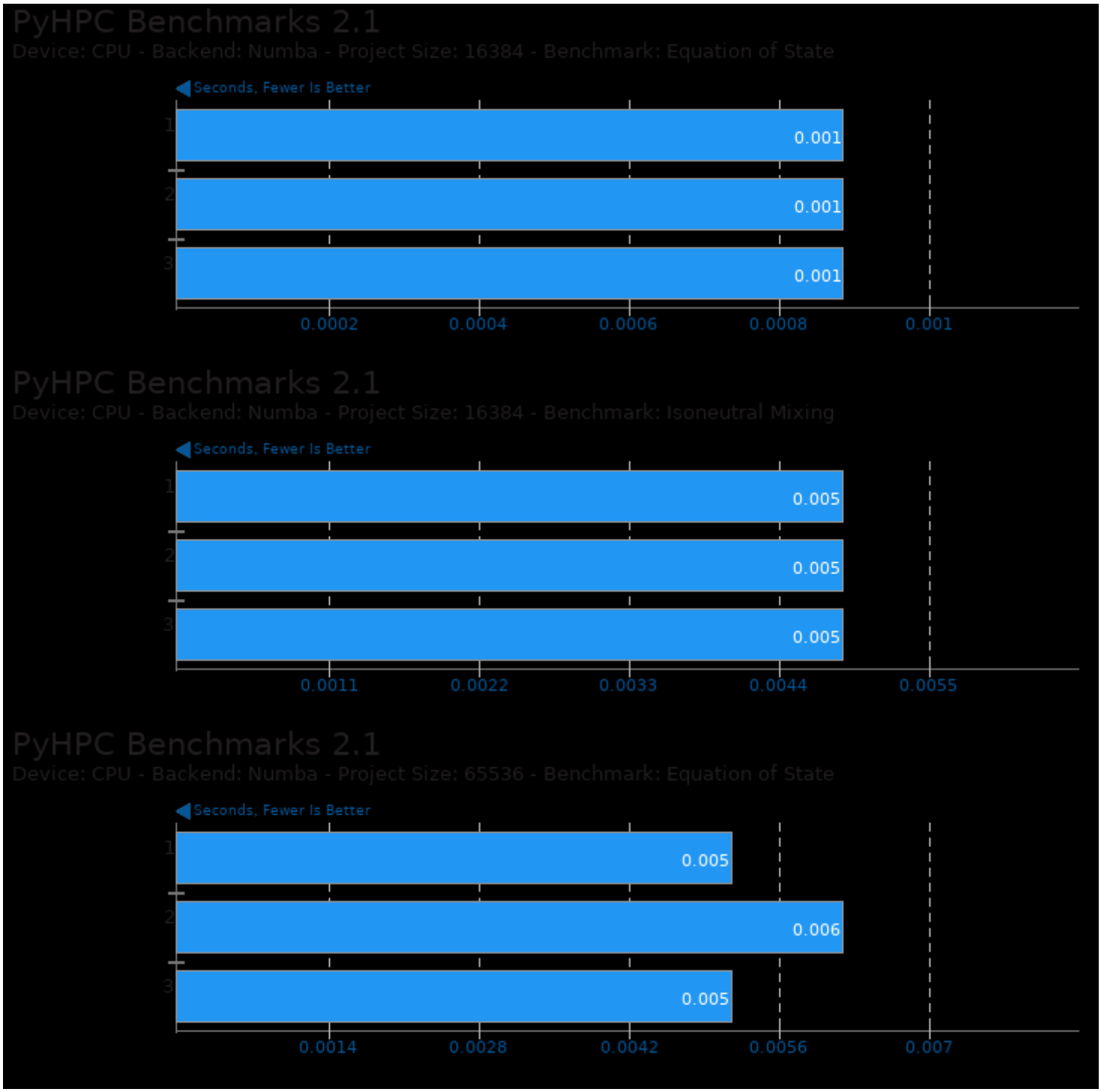
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PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 65536 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.032
0.031
0.031
0.0072
0.0144
0.0216
0.0288
0.036
PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.012
0.012
0.012
0.0027
0.0054
0.0081
0.0108
0.0135
PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 262144 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.117
0.113
0.114
0.0263
0.0526
0.0789
0.1052
0.1315

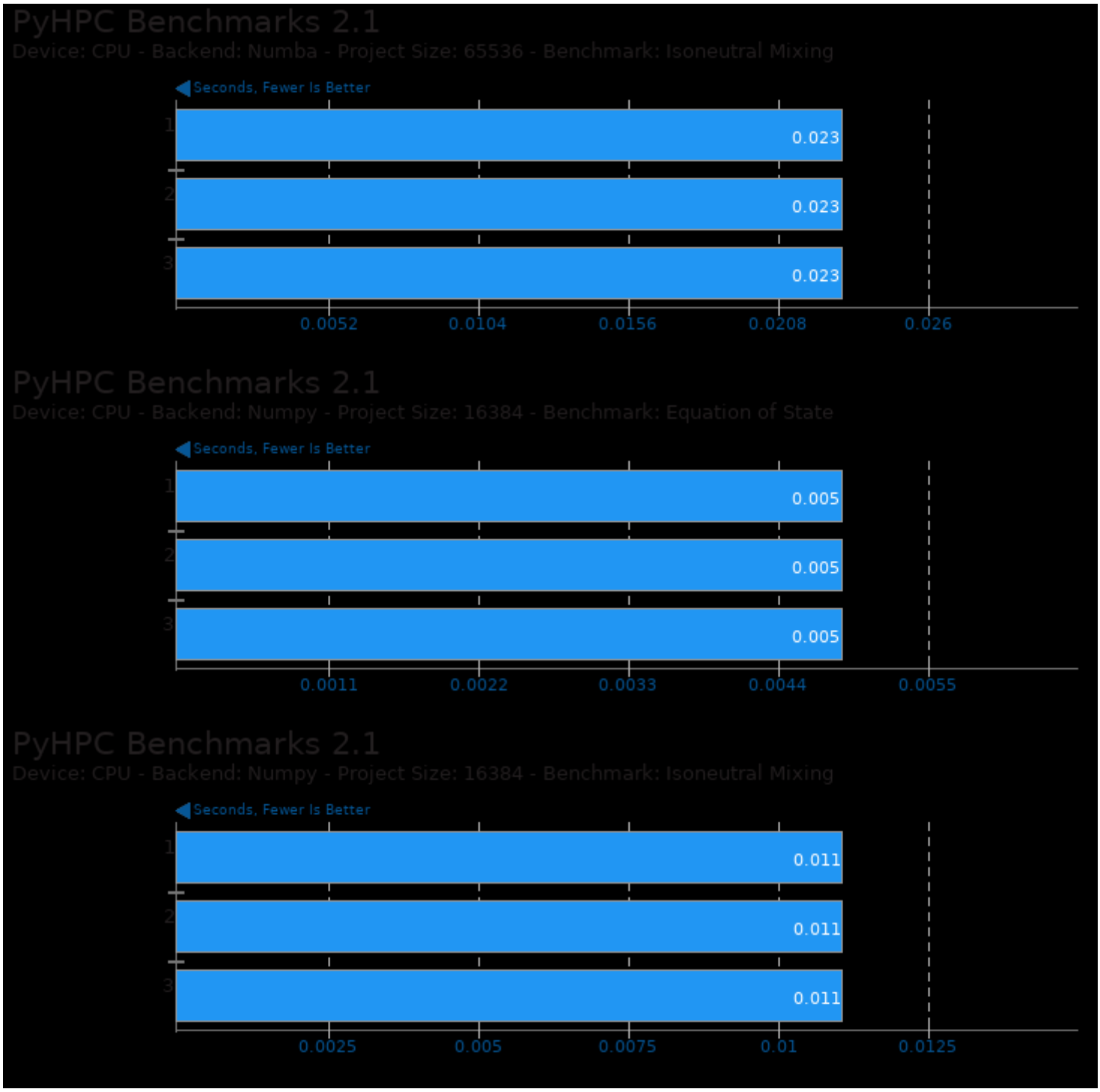
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PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 1048576 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.036
0.035
0.036
0.0081
0.0162
0.0243
0.0324
0.0405
PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 1048576 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.476
0.464
0.462
0.1071
0.2142
0.3213
0.4284
0.5355
PyHPC Benchmarks 2.1
Device: CPU - Backend: JAX - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.149
0.142
0.143
0.0335
0.067
0.1005
0.134
0.1675

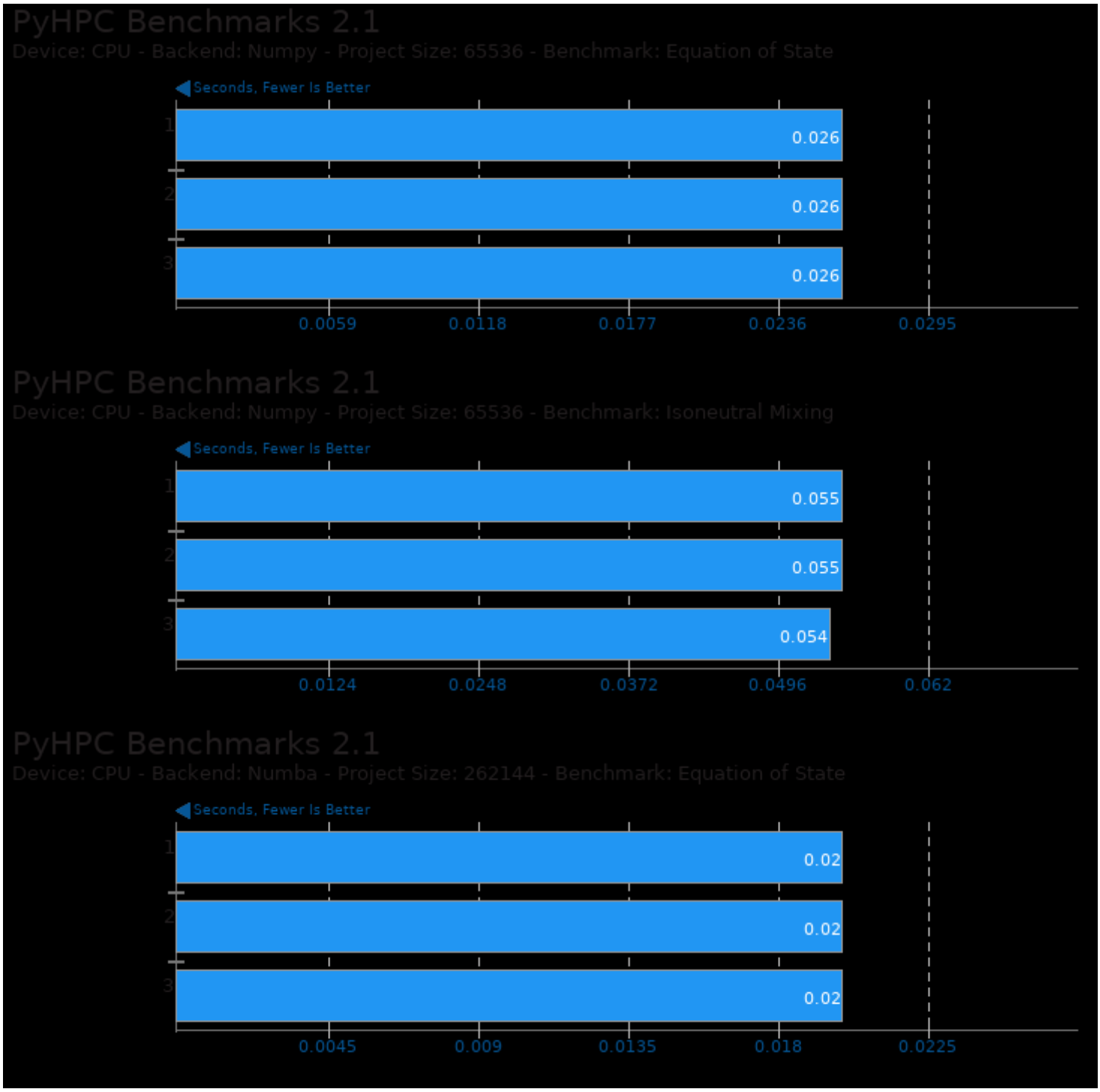
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.001
0.001
0.001
0.0002
0.0004
0.0006
0.0008
0.001
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 16384 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.005
0.005
0.005
0.0011
0.0022
0.0033
0.0044
0.0055
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.005
0.006
0.005
0.0014
0.0028
0.0042
0.0056
0.007

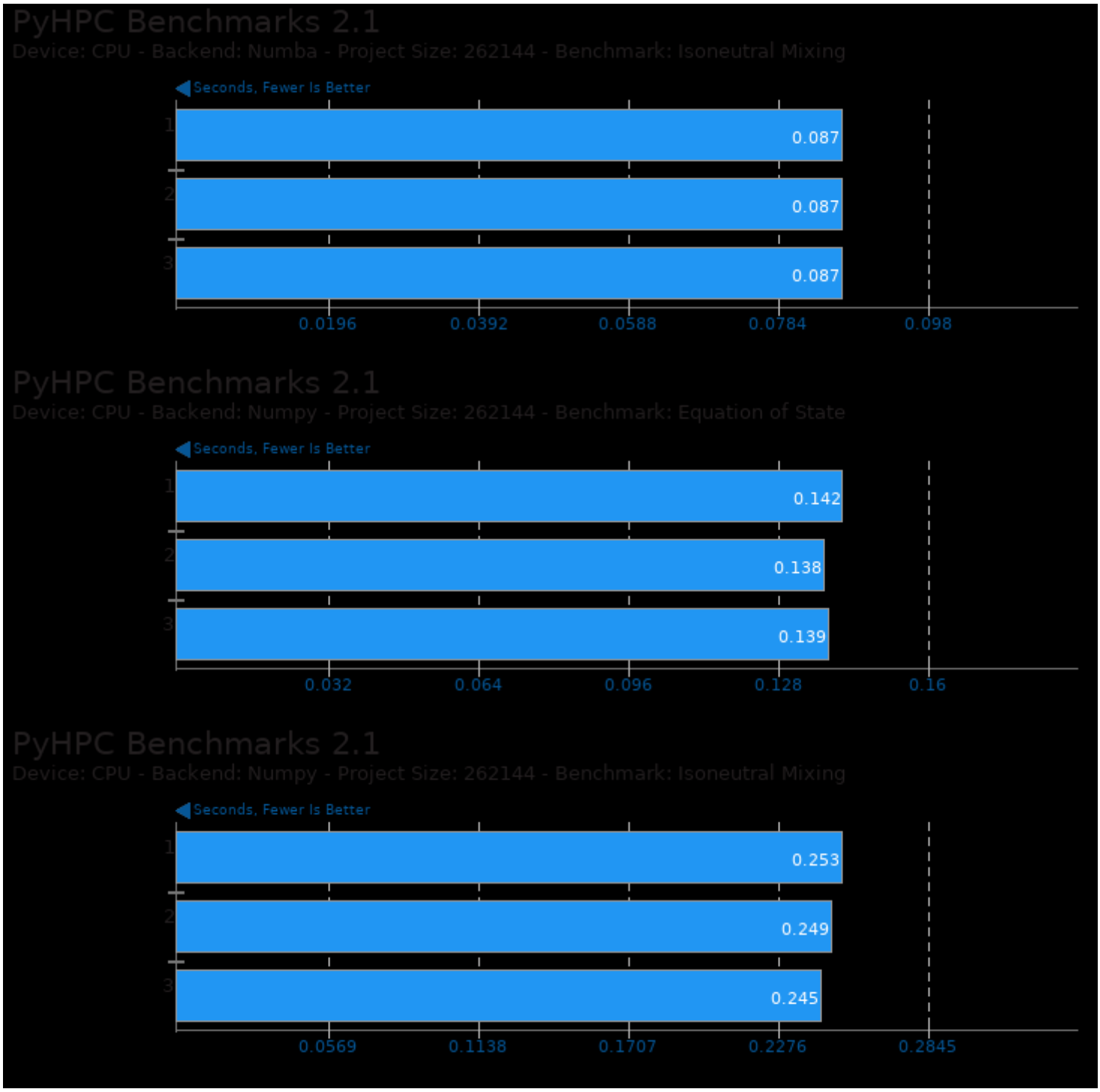
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 65536 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.023
0.023
0.023
0.0052
0.0104
0.0156
0.0208
0.026
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.005
0.005
0.005
0.0011
0.0022
0.0033
0.0044
0.0055
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 16384 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.011
0.011
0.011
0.0025
0.005
0.0075
0.01
0.0125

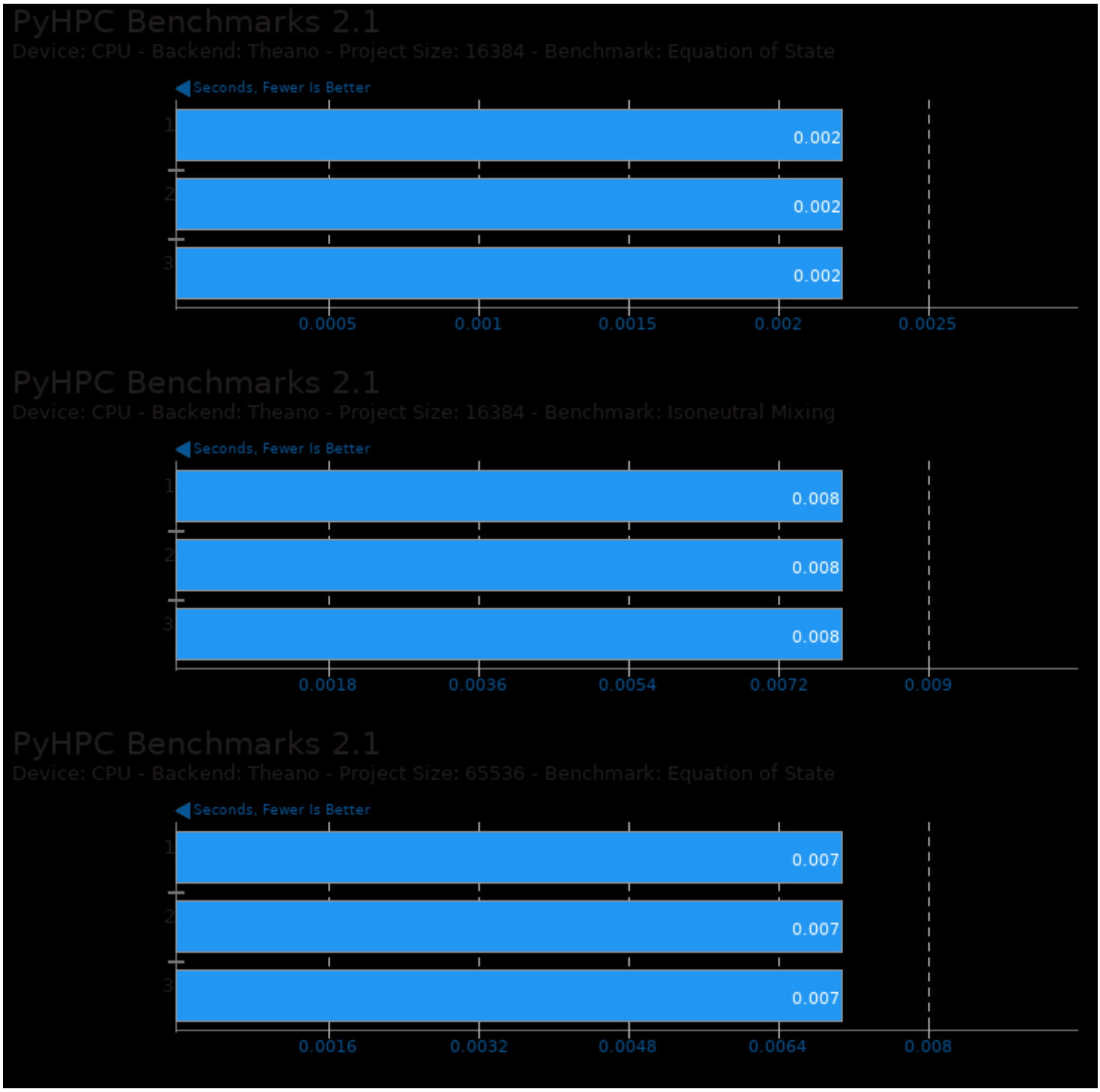
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.026
0.026
0.026
0.0059
0.0118
0.0177
0.0236
0.0295
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 65536 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.055
0.055
0.054
0.0124
0.0248
0.0372
0.0496
0.062
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.02
0.02
0.02
0.0045
0.009
0.0135
0.018
0.0225

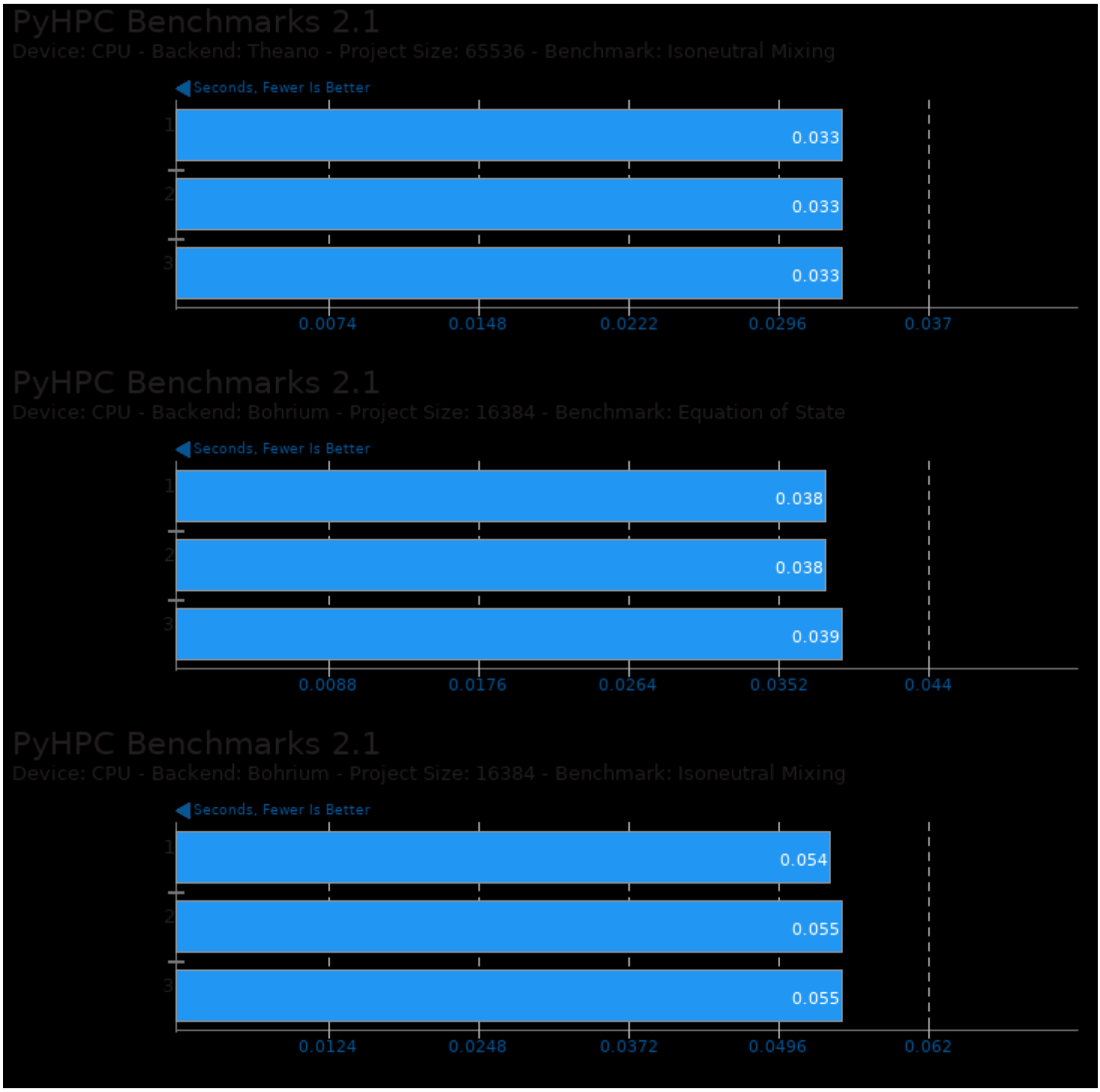
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 262144 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.087
0.087
0.087
0.0196
0.0392
0.0588
0.0784
0.098
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.142
0.138
0.139
0.032
0.064
0.096
0.128
0.16
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 262144 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.253
0.249
0.245
0.0569
0.1138
0.1707
0.2276
0.2845

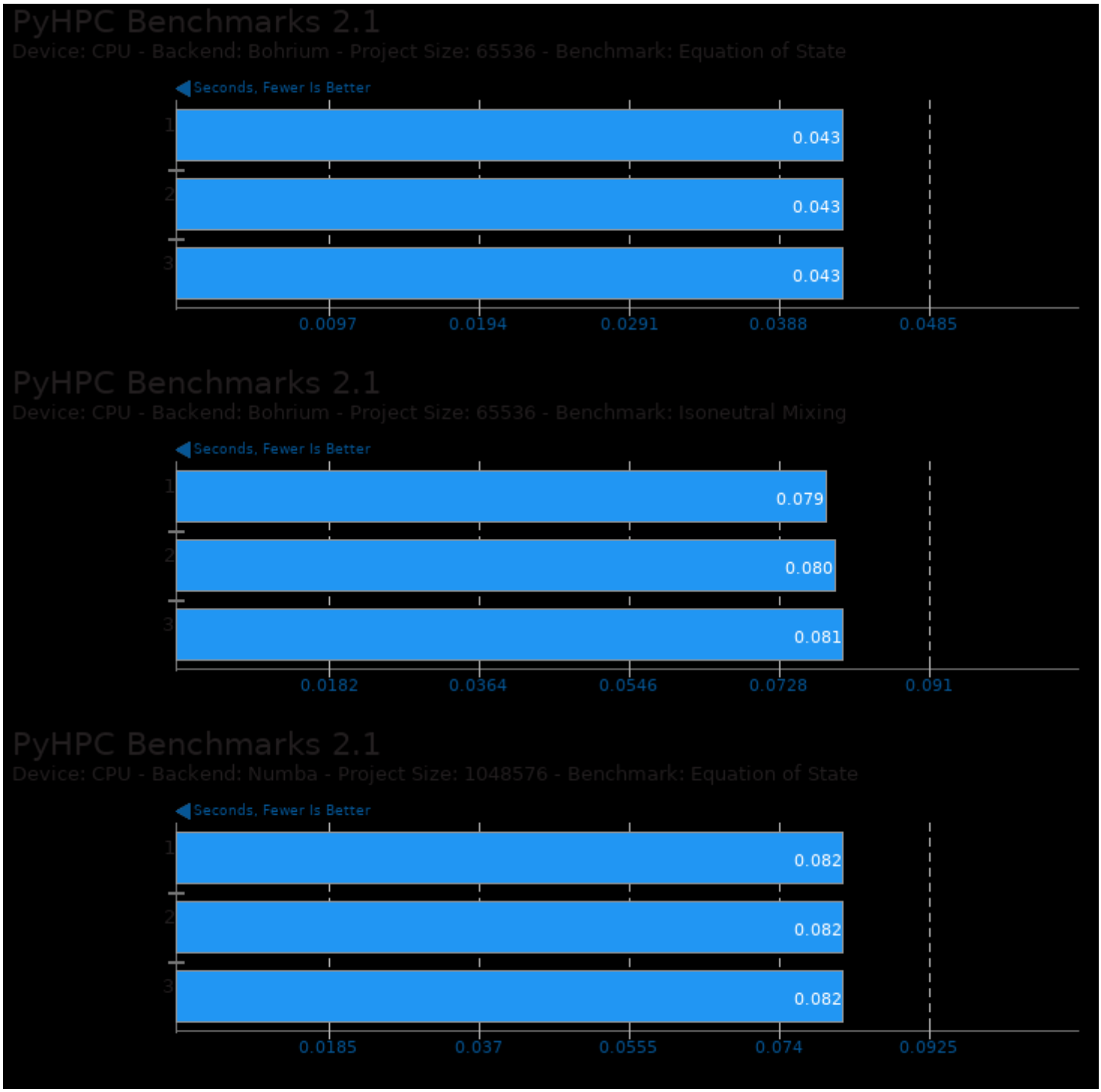
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.002
0.002
0.002
0.0005
0.001
0.0015
0.002
0.0025
PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 16384 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.008
0.008
0.008
0.0018
0.0036
0.0054
0.0072
0.009
PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.007
0.007
0.007
0.0016
0.0032
0.0048
0.0064
0.008

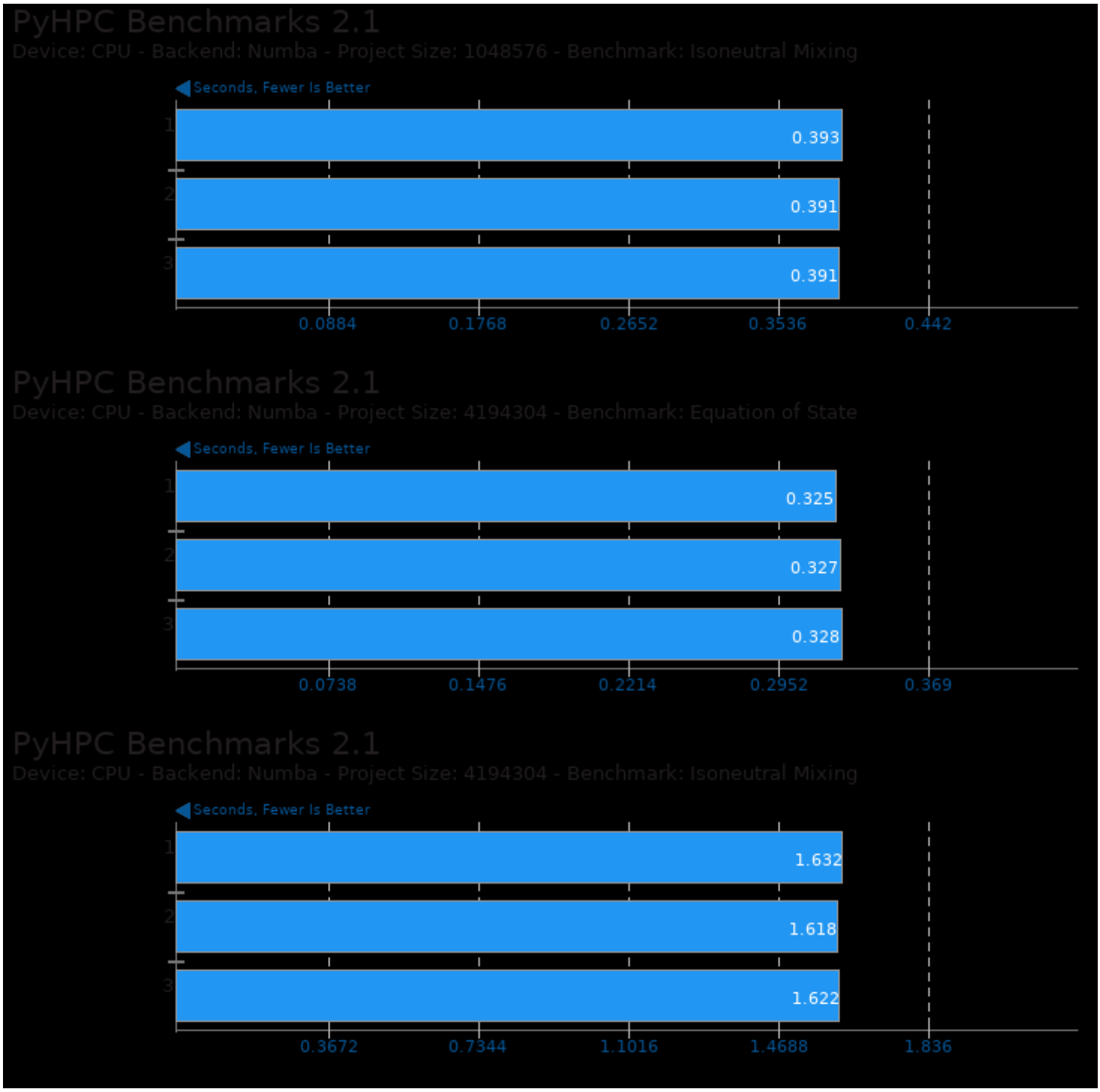
pyhpc 3200U


PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 65536 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.033
0.033
0.033
0.0074
0.0148
0.0222
0.0296
0.037
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.038
0.038
0.039
0.0088
0.0176
0.0264
0.0352
0.044
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 16384 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.054
0.055
0.055
0.0124
0.0248
0.0372
0.0496
0.062

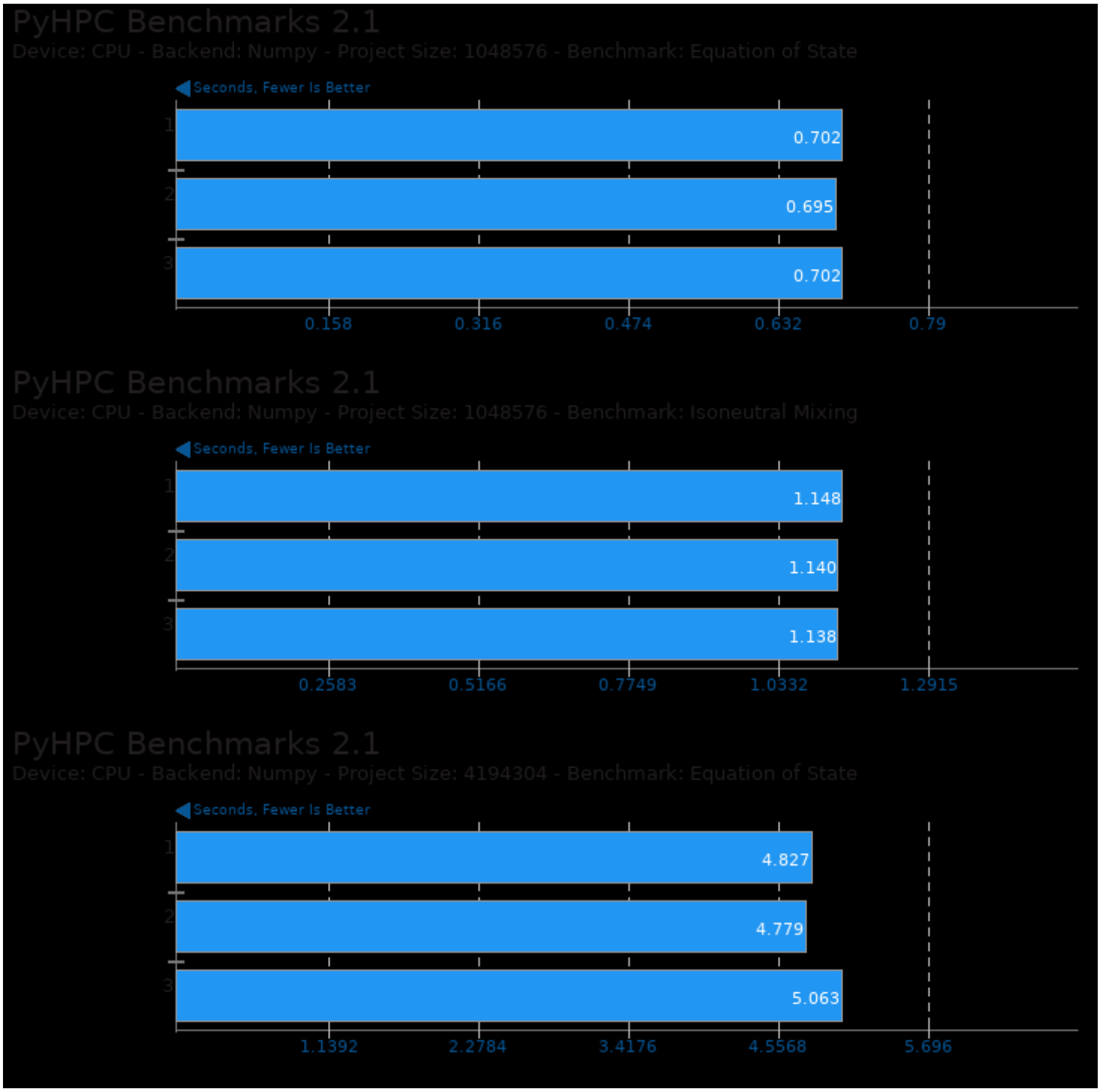
pyhpc 3200U


PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.043
0.043
0.043
0.0097
0.0194
0.0291
0.0388
0.0485
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 65536 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.079
0.080
0.081
0.0182
0.0364
0.0546
0.0728
0.091
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 1048576 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.082
0.082
0.082
0.0185
0.037
0.0555
0.074
0.0925

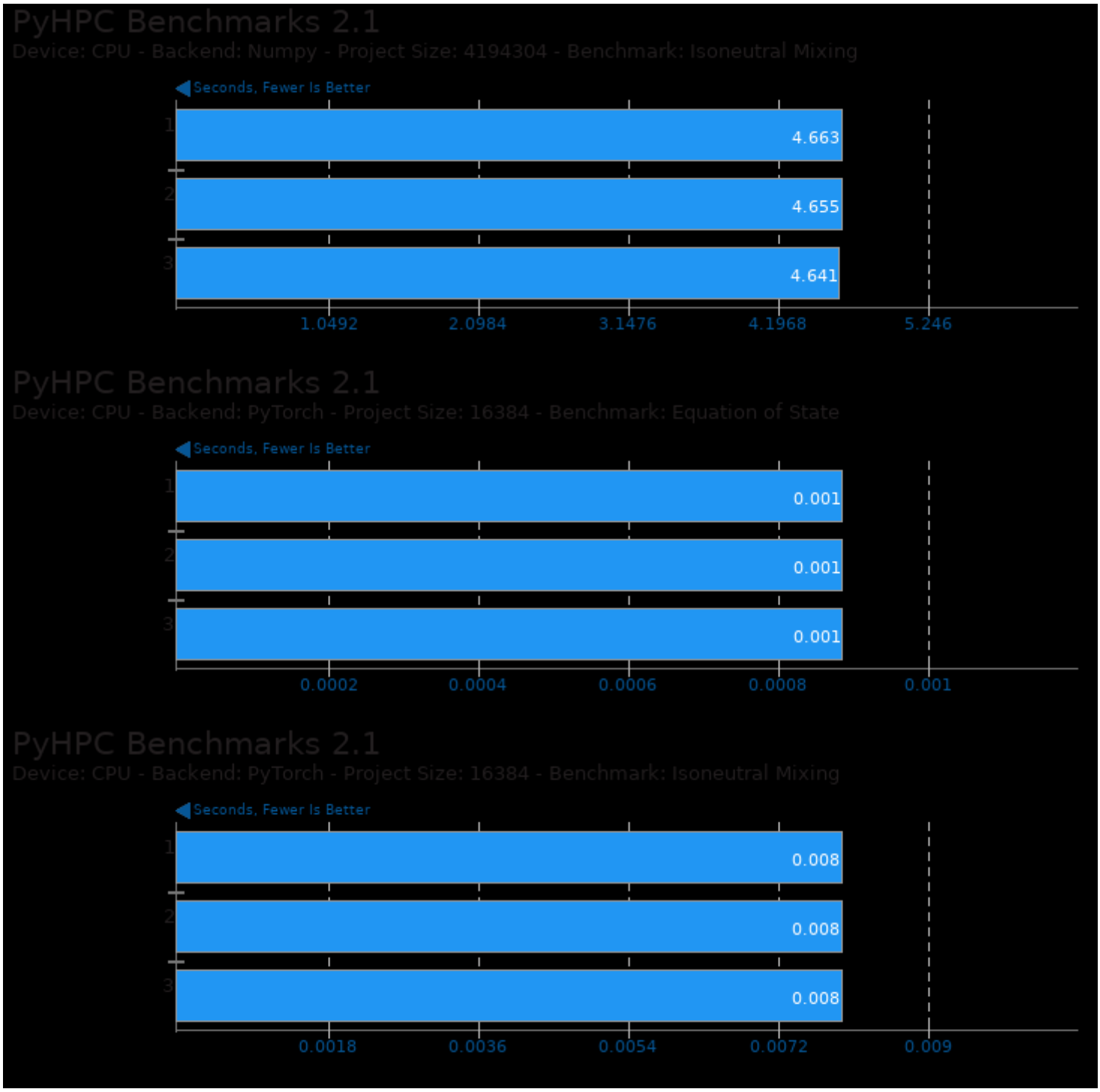
pyhpc 3200U


PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 1048576 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.393
0.391
0.391
0.0884
0.1768
0.2652
0.3536
0.442
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.325
0.327
0.328
0.0738
0.1476
0.2214
0.2952
0.369
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numba - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
1.632
1.618
1.622
0.3672
0.7344
1.1016
1.4688
1.836

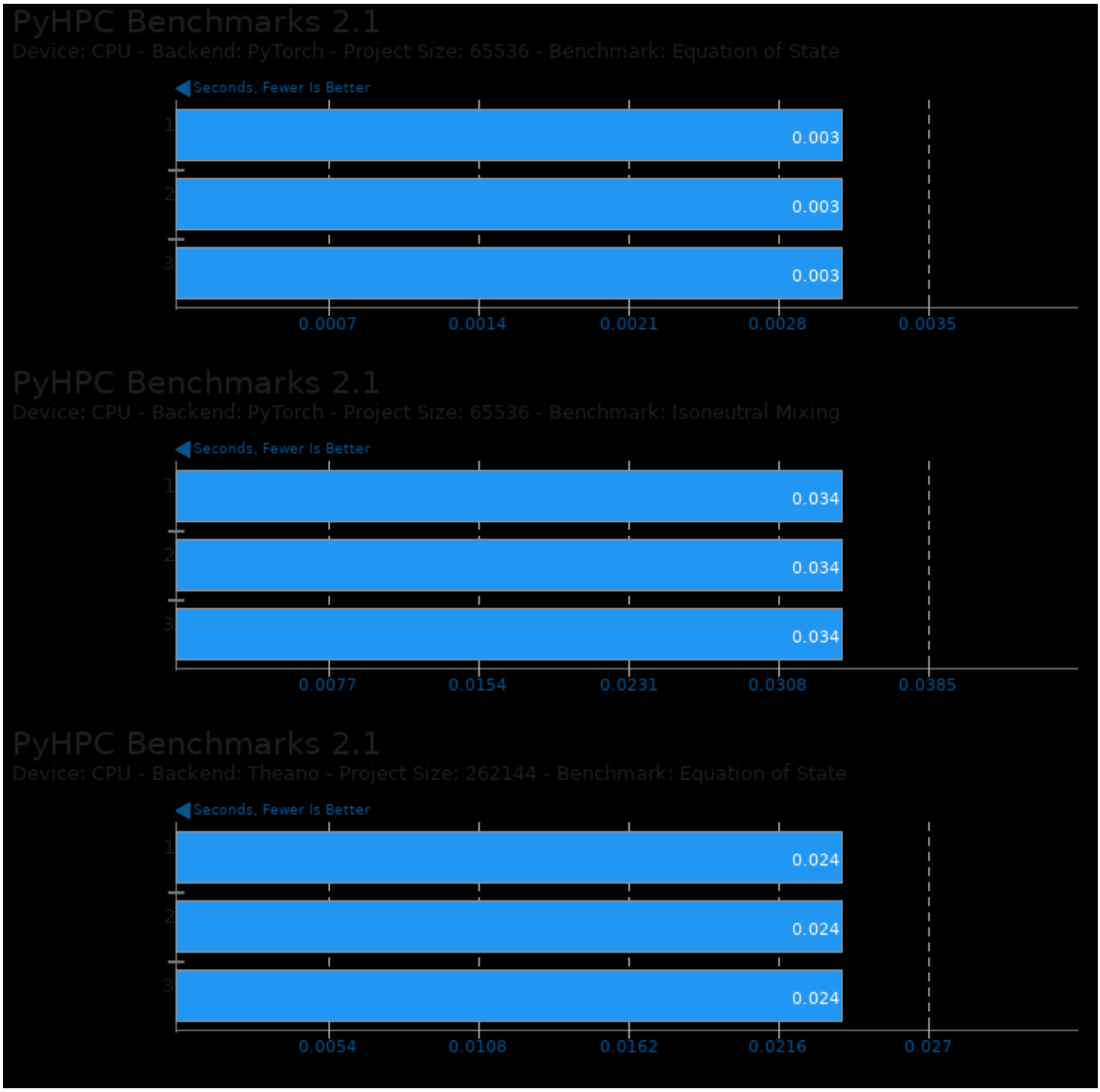
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 1048576 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.702
0.695
0.702
0.158
0.316
0.474
0.632
0.79
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 1048576 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
1.148
1.140
1.138
0.2583
0.5166
0.7749
1.0332
1.2915
PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
4.827
4.779
5.063
1.1392
2.2784
3.4176
4.5568
5.696

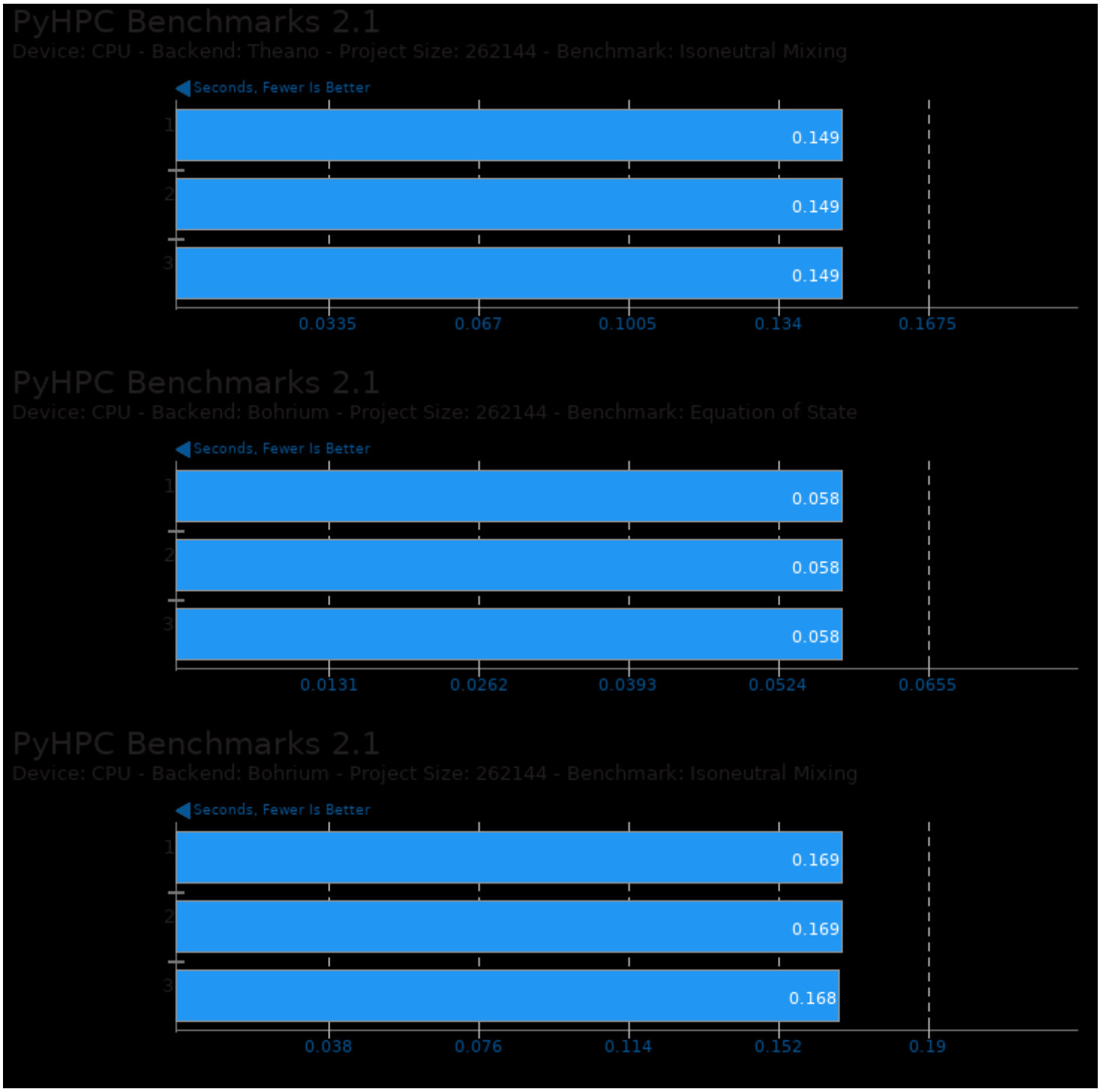
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Numpy - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
4.663
4.655
4.641
1.0492
2.0984
3.1476
4.1968
5.246
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.001
0.001
0.001
0.0002
0.0004
0.0006
0.0008
0.001
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 16384 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.008
0.008
0.008
0.0018
0.0036
0.0054
0.0072
0.009

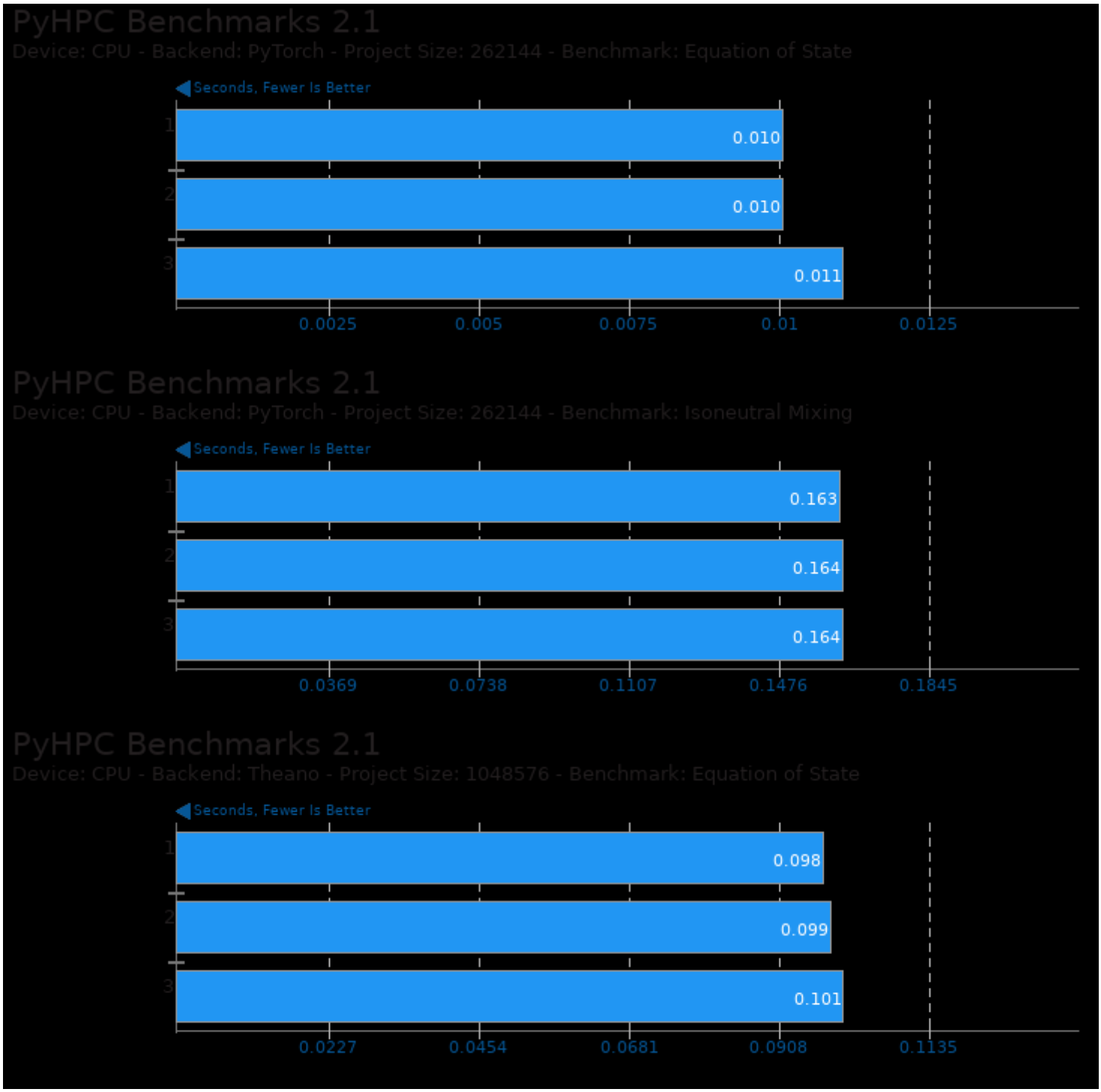
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PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.003
0.003
0.003
0.0007
0.0014
0.0021
0.0028
0.0035
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 65536 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.034
0.034
0.034
0.0077
0.0154
0.0231
0.0308
0.0385
PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.024
0.024
0.024
0.0054
0.0108
0.0162
0.0216
0.027

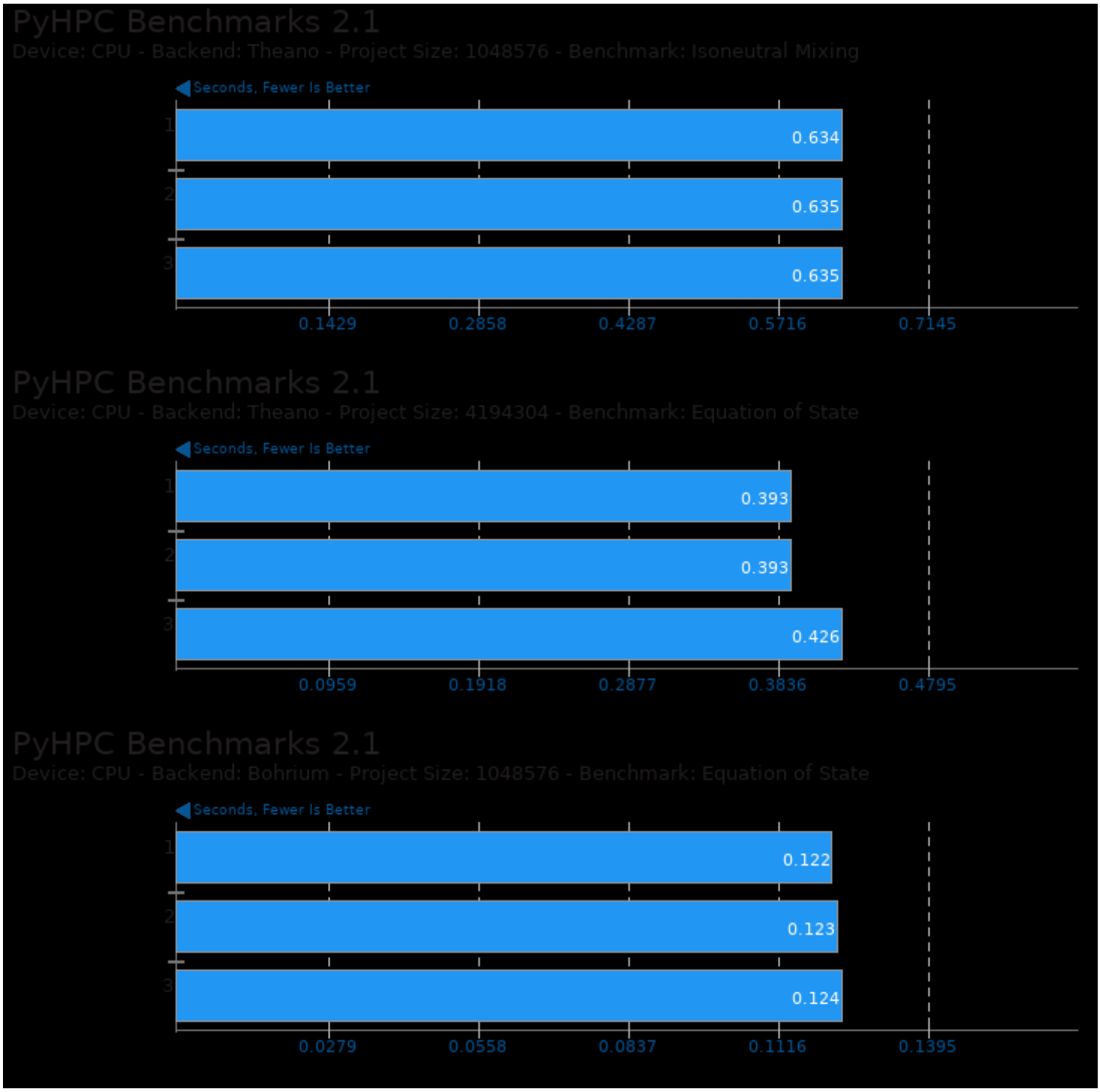
pyhpc 3200U


PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 262144 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.149
0.149
0.149
0.0335
0.067
0.1005
0.134
0.1675
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.058
0.058
0.058
0.0131
0.0262
0.0393
0.0524
0.0655
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 262144 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.169
0.169
0.168
0.038
0.076
0.114
0.152
0.19

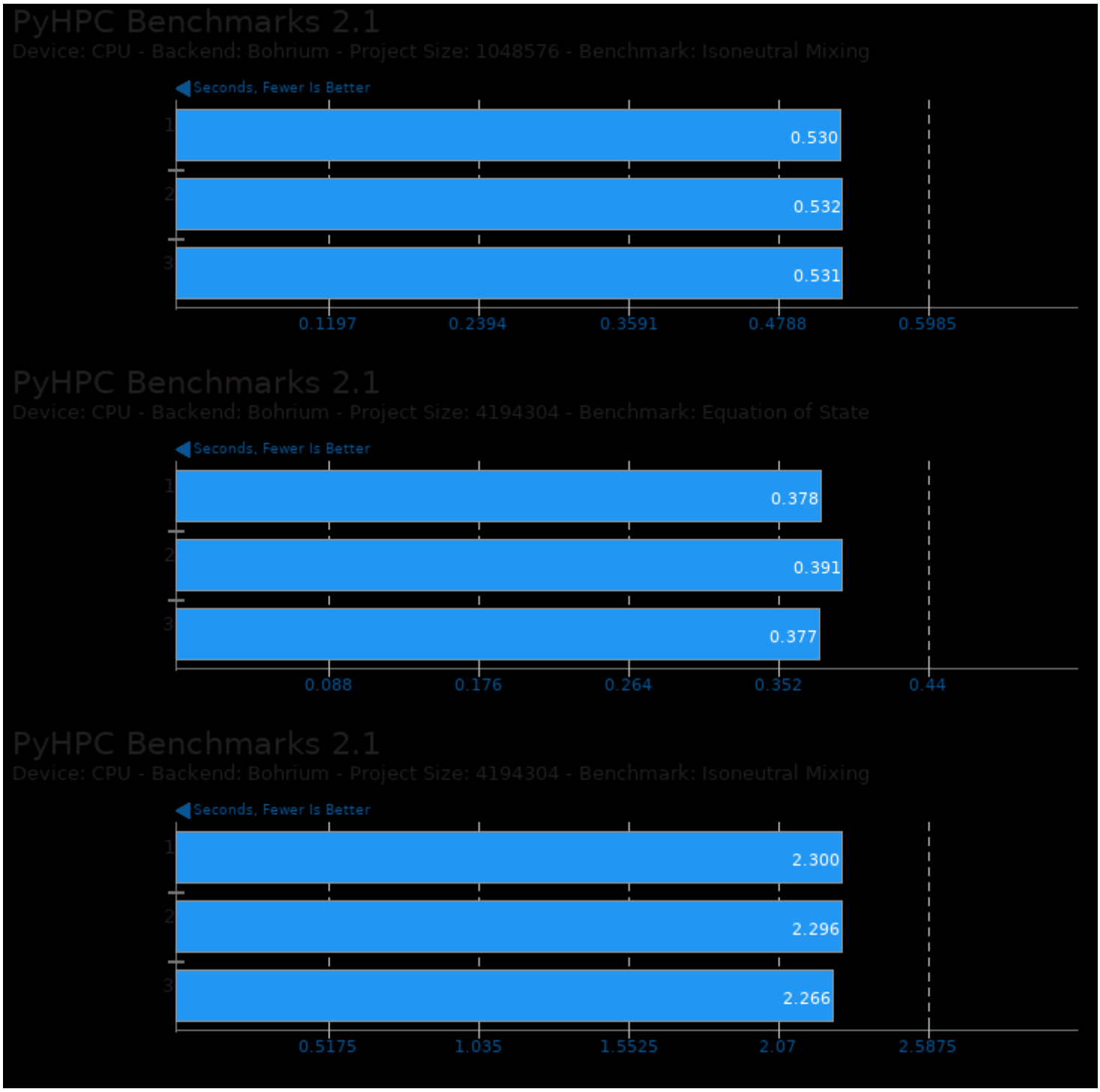
pyhpc 3200U


PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.010
0.010
0.011
0.0025
0.005
0.0075
0.01
0.0125
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 262144 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.163
0.164
0.164
0.0369
0.0738
0.1107
0.1476
0.1845
PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 1048576 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.098
0.099
0.101
0.0227
0.0454
0.0681
0.0908
0.1135

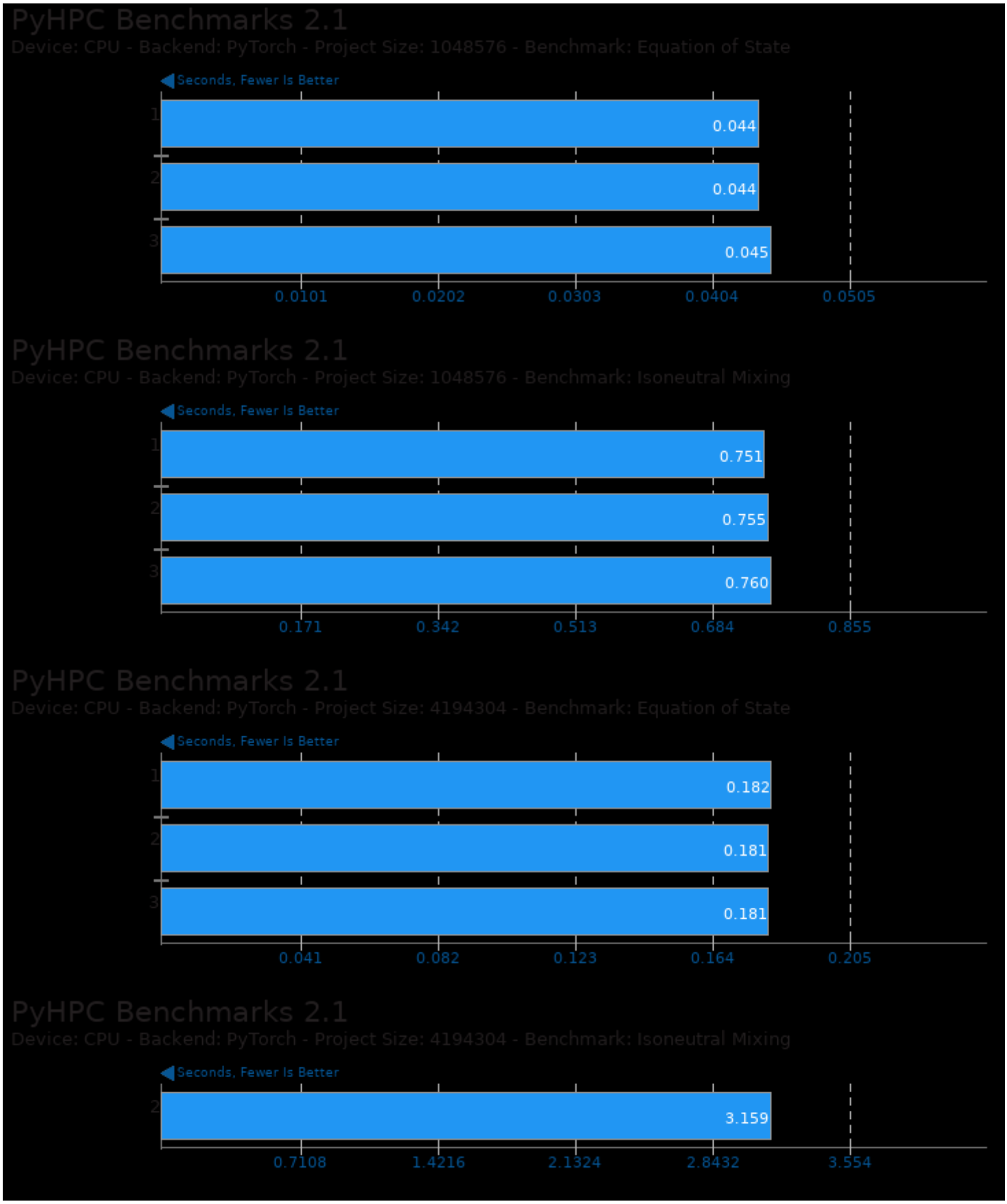
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 1048576 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.634
0.635
0.635
0.1429
0.2858
0.4287
0.5716
0.7145
PyHPC Benchmarks 2.1
Device: CPU - Backend: Theano - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.393
0.393
0.426
0.0959
0.1918
0.2877
0.3836
0.4795
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 1048576 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.122
0.123
0.124
0.0279
0.0558
0.0837
0.1116
0.1395

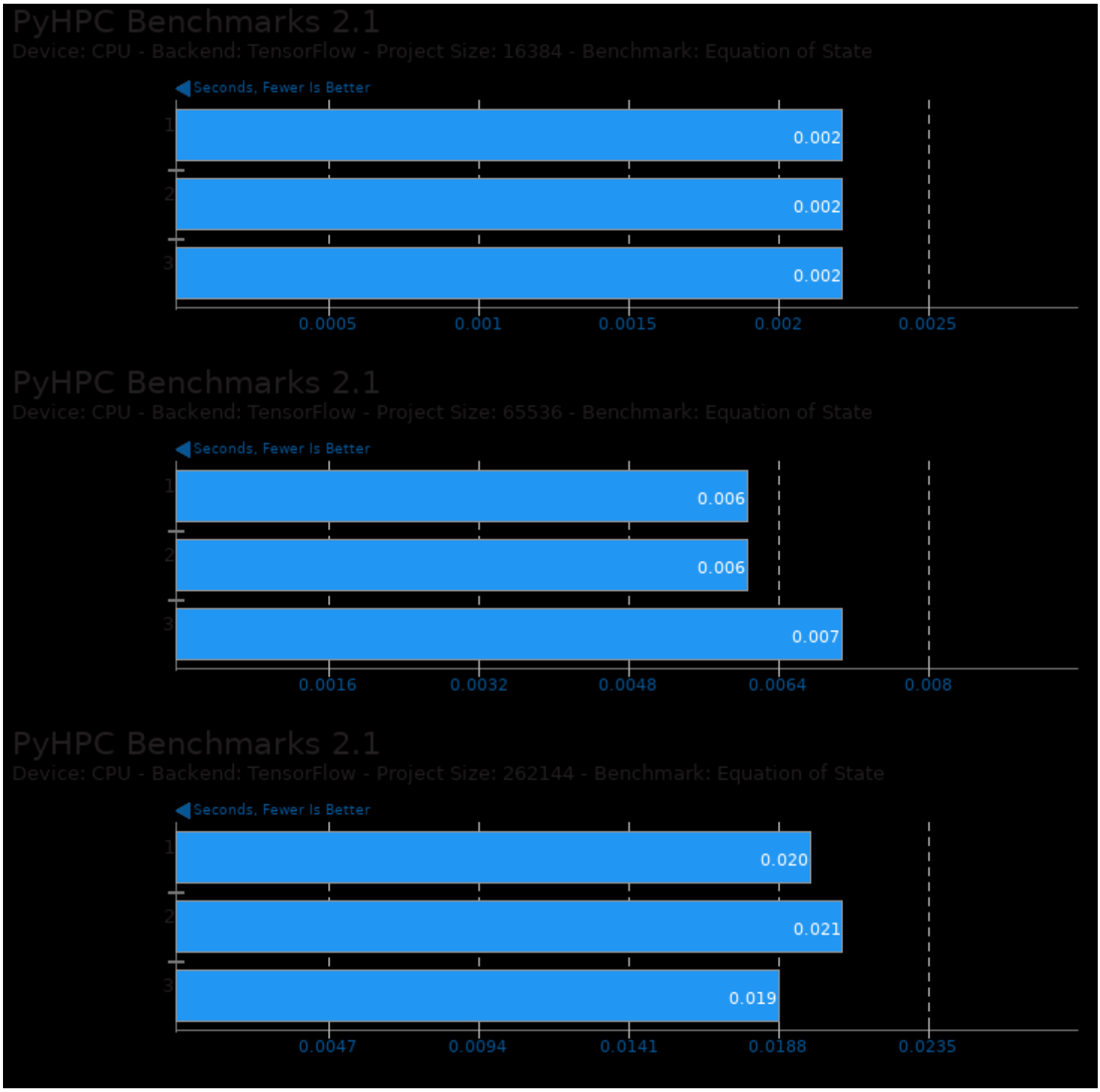
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PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 1048576 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.530
0.532
0.531
0.1197
0.2394
0.3591
0.4788
0.5985
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.378
0.391
0.377
0.088
0.176
0.264
0.352
0.44
PyHPC Benchmarks 2.1
Device: CPU - Backend: Bohrium - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
2.300
2.296
2.266
0.5175
1.035
1.5525
2.07
2.5875

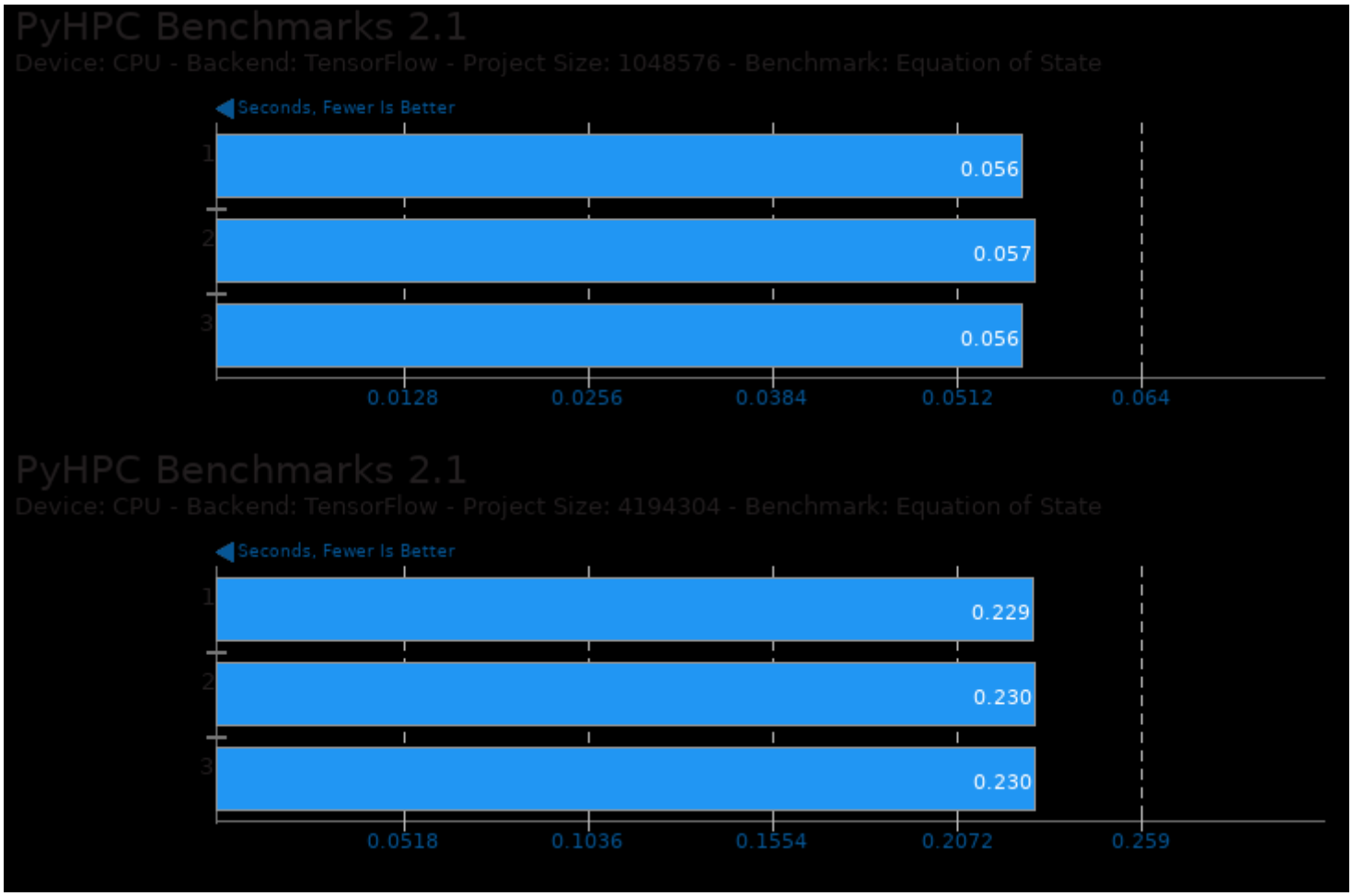
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PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 1048576 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.044
0.044
0.045
0.0101
0.0202
0.0303
0.0404
0.0505
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 1048576 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
1
2
3
0.751
0.755
0.760
0.171
0.342
0.513
0.684
0.855
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.182
0.181
0.181
0.041
0.082
0.123
0.164
0.205
PyHPC Benchmarks 2.1
Device: CPU - Backend: PyTorch - Project Size: 4194304 - Benchmark: Isoneutral Mixing
Seconds, Fewer Is Better
2
3.159
0.7108
1.4216
2.1324
2.8432
3.554

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PyHPC Benchmarks 2.1
Device: CPU - Backend: TensorFlow - Project Size: 16384 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.002
0.002
0.002
0.0005
0.001
0.0015
0.002
0.0025
PyHPC Benchmarks 2.1
Device: CPU - Backend: TensorFlow - Project Size: 65536 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.006
0.006
0.007
0.0016
0.0032
0.0048
0.0064
0.008
PyHPC Benchmarks 2.1
Device: CPU - Backend: TensorFlow - Project Size: 262144 - Benchmark: Equation of State
Seconds, Fewer Is Better
1
2
3
0.020
0.021
0.019
0.0047
0.0094
0.0141
0.0188
0.0235

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