

IBM Qiskit PyTorch Quantum Device Benchmarkings December 2023

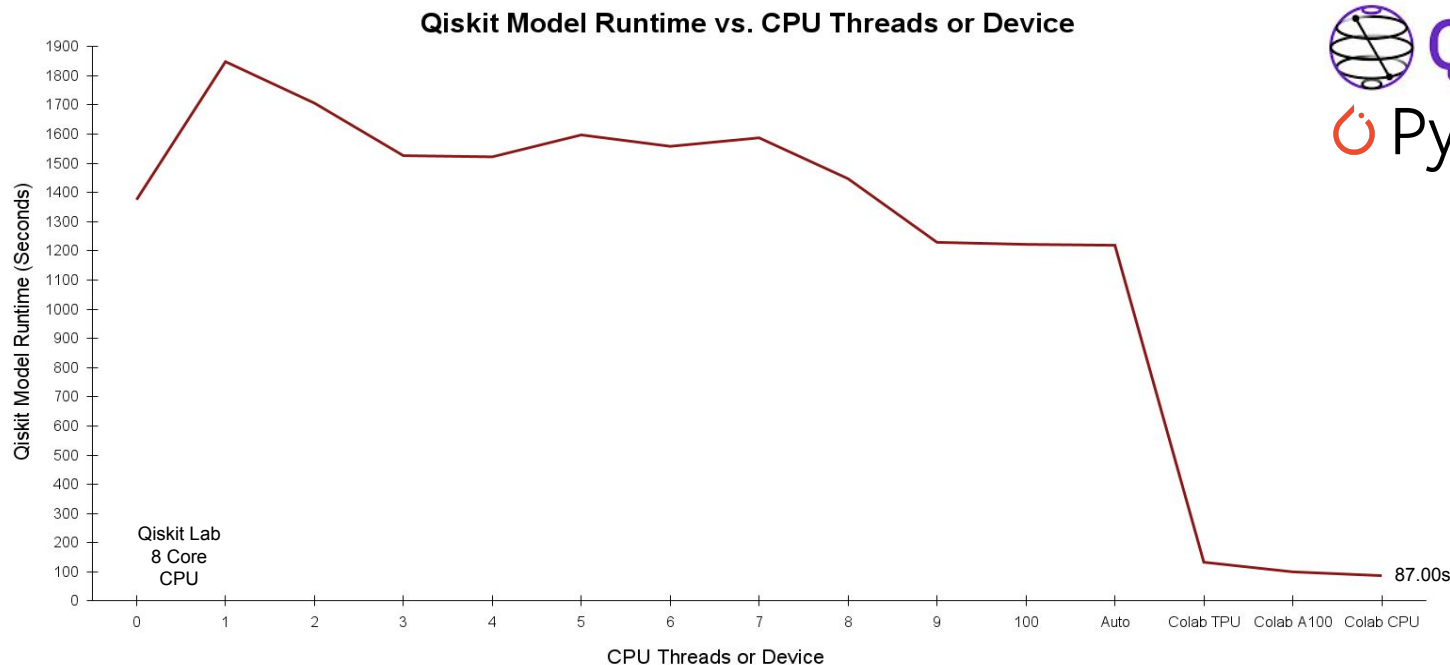


Figure 1/Table 1: Qiskit Model Runtime vs. 8 Core CPU Threads or Device															
Threads	0	1	2	3	4	5	6	7	8	9	100	Auto	Colab TPU	Colab A100	Colab CPU
Time	1375.00	1848.00	1706.00	1526.00	1522.00	1597.00	1558.00	1587.00	1447.00	1229.00	1222.00	1219.00	133.00	100.00	87.00
Cost	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0072	\$0.0363	\$0.0002
Eff	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	1.04	0.28	59.46
Date	12/5/23	12/4/23	12/4/23	12/4/23	12/4/23	12/4/23	12/4/23	12/5/23	12/5/23	12/5/23	12/5/23	12/5/23	12/5/23	12/3/23	12/3/23

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