

Iteration Time Benchmark

	1 slice				3 slices				6 slices						
batch 16		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	6.26 ± 0.4	6.47 ± 0.5	7.57 ± 0.3	10 ± 0.3	ptyrad	8.5 ± 0.5	9.41 ± 0.5	11.9 ± 0.3	16.5 ± 0.4	ptyrad	13.5 ± 0.4	15.1 ± 0.5	19.5 ± 0.3	27.1 ± 0.3
	ptyshv	6.87 ± 0.4	11.8 ± 0.7	19.2 ± 0.9	34.2 ± 2	ptyshv	12 ± 0.6	25 ± 1	45.5 ± 2	85 ± 3	ptyshv	20.5 ± 1	49.2 ± 2	90.1 ± 5	182 ± 7
	py4dstem	7.02 ± 0.3	14.6 ± 0.9	25.8 ± 1	49.1 ± 2	py4dstem	16.6 ± 0.8	39.2 ± 2	73.3 ± 3	142 ± 5	py4dstem	31 ± 2	74.2 ± 3	144 ± 7	283 ± 8
batch 32		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	3.41 ± 0.2	4.19 ± 0.1	5.53 ± 0.2	8.02 ± 0.2	ptyrad	5.63 ± 0.2	7.29 ± 0.2	9.58 ± 0.2	14.1 ± 0.2	ptyrad	9.94 ± 0.2	12.8 ± 0.2	16.7 ± 0.2	24.1 ± 0.2
	ptyshv	3.75 ± 0.2	6.35 ± 0.4	10.2 ± 0.5	18.2 ± 0.8	ptyshv	6.16 ± 0.4	13.1 ± 0.6	23 ± 1	43.7 ± 2	ptyshv	10.8 ± 0.6	25.4 ± 1	46 ± 2	90.2 ± 4
	py4dstem	3.6 ± 0.2	7.37 ± 0.4	13.3 ± 0.5	25.4 ± 1	py4dstem	8.37 ± 0.5	20 ± 1	37.6 ± 2	73.5 ± 3	py4dstem	15.5 ± 0.8	38.7 ± 1	73.3 ± 3	147 ± 5
batch 64		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	2.33 ± 0.09	3.31 ± 0.2	4.55 ± 0.09	7.15 ± 0.08	ptyrad	4.52 ± 0.08	6.18 ± 0.1	8.48 ± 0.1	13.2 ± 0.1	ptyrad	8.72 ± 0.08	11.5 ± 0.08	15.3 ± 0.1	23 ± 0.1
	ptyshv	2.23 ± 0.2	3.76 ± 0.2	6.02 ± 0.4	10.1 ± 0.8	ptyshv	3.6 ± 0.2	7.48 ± 0.3	13.2 ± 0.8	24.6 ± 1	ptyshv	6.11 ± 0.2	13.9 ± 0.8	25.7 ± 1	49.6 ± 2
	py4dstem	1.84 ± 0.07	3.92 ± 0.2	7.22 ± 0.3	13.8 ± 0.6	py4dstem	4.24 ± 0.1	10.5 ± 0.4	20.3 ± 0.8	39.7 ± 2	py4dstem	7.91 ± 0.3	20.3 ± 0.8	39.7 ± 2	78.9 ± 4
batch 128		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	1.94 ± 0.05	2.82 ± 0.06	4.07 ± 0.03	6.65 ± 0.05	ptyrad	4.06 ± 0.06	5.59 ± 0.06	7.91 ± 0.03	12.5 ± 0.07	ptyrad	8.13 ± 0.08	10.7 ± 0.05	14.6 ± 0.05	22.1 ± 0.06
	ptyshv	1.6 ± 0.05	2.65 ± 0.09	4 ± 0.08	6.72 ± 0.2	ptyshv	2.62 ± 0.02	5.51 ± 0.2	9.51 ± 0.3	17.5 ± 0.8	ptyshv	4.39 ± 0.05	9.95 ± 0.2	18.7 ± 0.3	34.9 ± 1
	py4dstem	1.15 ± 0.05	2.36 ± 0.08	4.28 ± 0.1	8.18 ± 0.2	py4dstem	2.54 ± 0.1	6.3 ± 0.2	12.1 ± 0.4	23.4 ± 0.7	py4dstem	4.59 ± 0.2	12 ± 0.4	23.5 ± 0.8	46.2 ± 2
batch 256		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	1.67 ± 0.03	2.56 ± 0.02	3.84 ± 0.03	6.4 ± 0.04	ptyrad	3.73 ± 0.02	5.31 ± 0.03	7.6 ± 0.04	12.2 ± 0.02	ptyrad	7.66 ± 0.03	10.3 ± 0.03	14.1 ± 0.04	21.7 ± 0.06
	ptyshv	1.33 ± 0.06	2 ± 0.07	2.98 ± 0.1	4.85 ± 0.2	ptyshv	2.15 ± 0.07	4.17 ± 0.1	7.2 ± 0.3	13.4 ± 0.2	ptyshv	3.41 ± 0.1	7.54 ± 0.2	13.9 ± 0.4	26.5 ± 0.3
	py4dstem	0.852 ± 0.03	1.7 ± 0.05	2.97 ± 0.09	5.51 ± 0.2	py4dstem	1.77 ± 0.03	4.33 ± 0.1	8.11 ± 0.2	15.6 ± 0.4	py4dstem	3.11 ± 0.08	8.23 ± 0.3	15.7 ± 0.4	30.7 ± 1
batch 512		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	1.56 ± 0.01	2.43 ± 0.01	3.71 ± 0.01	6.26 ± 0.01	ptyrad	3.58 ± 0.02	5.15 ± 0.02	7.43 ± 0.02	12 ± 0.02	ptyrad	7.47 ± 0.01	10.1 ± 0.02	13.9 ± 0.02	21.4 ± 0.01
	ptyshv	1.22 ± 0.03	1.81 ± 0.04	2.61 ± 0.09	4.26 ± 0.2	ptyshv	2.01 ± 0.06	3.86 ± 0.09	6.52 ± 0.2	11.8 ± 0.2	ptyshv	3.15 ± 0.09	6.86 ± 0.08	12.3 ± 0.2	23.5 ± 0.4
	py4dstem	0.813 ± 0.05	1.46 ± 0.06	2.43 ± 0.05	4.43 ± 0.1	py4dstem	1.58 ± 0.06	3.58 ± 0.1	6.49 ± 0.1	12.5 ± 0.3	py4dstem	2.66 ± 0.08	6.58 ± 0.1	12.5 ± 0.3	24.4 ± 0.6
batch 1024		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
	ptyrad	1.56 ± 0.1	2.37 ± 0.006	3.65 ± 0.01	6.2 ± 0.008	ptyrad	3.51 ± 0.01	5.07 ± 0.009	7.36 ± 0.01	11.9 ± 0.009	ptyrad	7.46 ± 0.2	9.97 ± 0.007	13.8 ± 0.02	OOM
	ptyshv	1.24 ± 0.1	1.66 ± 0.05	2.39 ± 0.1	3.8 ± 0.2	ptyshv	1.87 ± 0.04	3.55 ± 0.08	6 ± 0.1	11 ± 0.3	ptyshv	2.88 ± 0.07	6.3 ± 0.09	11.5 ± 0.2	OOM
	py4dstem	0.773 ± 0.07	1.35 ± 0.03	2.28 ± 0.03	4.07 ± 0.07	py4dstem	1.44 ± 0.03	3.27 ± 0.04	6.01 ± 0.07	OOM	py4dstem	2.44 ± 0.02	6.11 ± 0.07	11.6 ± 0.1	OOM