Iteration Time (sec) Benchmark

	1 slice					3 slices					6 slices				
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	6.32 ± 0.2	6.34 ± 0.05	7.35 ± 0.09	9.88 ± 0.07	ptyrad	8.62 ± 0.1	9.02 ± 0.08	11.5 ± 0.09	16.1 ± 0.09	ptyrad	13.3 ± 0.07	14.6 ± 0.1	19 ± 0.09	26.6 ± 0.09
batch	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
pa	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
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
ا ي	ptyrad	3.37 ± 0.1	4.03 ± 0.04	5.35 ± 0.1	7.9 ± 0.1	ptyrad	5.38 ± 0.09	6.97 ± 0.06	9.3 ± 0.08	13.8 ± 0.1	ptyrad	9.47 ± 0.1	12.4 ± 0.1	16.1 ± 0.1	23.6 ± 0.09
batch	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
ا ق	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	ptyrad	1 probe 2.28 ± 0.06	3 probes 3.19 ± 0.05	6 probes 4.44 ± 0.04	12 probes 7 ± 0.06	ptyrad	1 probe 4.3 ± 0.06	3 probes 5.96 ± 0.06	6 probes 8.19 ± 0.05	12 probes 12.8 ± 0.1	ptyrad	1 probe 8.22 ± 0.05	3 probes 11 ± 0.05	6 probes 14.7 ± 0.08	12 probes 22.3 ± 0.1
at	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
ا ق	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
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	1.83 ± 0.03	2.7 ± 0.04	3.97 ± 0.03	6.52 ± 0.03	ptyrad	3.78 ± 0.03	5.33 ± 0.05	7.63 ± 0.05	12.1 ± 0.04	ptyrad	7.57 ± 0.04	10.2 ± 0.05	14 ± 0.05	21.4 ± 0.06
batch	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
aţ	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
1 95 b		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
2	ptyrad	1.59 ± 0.006	2.46 ± 0.006	3.72 ± 0.01	6.26 ± 0.02	ptyrad	3.47 ± 0.006	5.04 ± 0.02	7.29 ± 0.02	11.8 ± 0.02	ptyrad	7.14 ± 0.01	9.74 ± 0.02	13.5 ± 0.02	21 ± 0.03
ج	ptyrau	1.33 ± 0.06	2 ± 0.07	2.98 ± 0.1	4.85 ± 0.2	ptyruu	2.15 ± 0.07	4.17 ± 0.1	7.2 ± 0.3	13.4 ± 0.2	ptyruu	3.41 ± 0.01	7.54 ± 0.2	13.9 ± 0.4	26.5 ± 0.3
batc		0.852 ± 0.03		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		8.23 ± 0.3	15.7 ± 0.4	30.7 ± 1
12 b		1 probe	3 probes	6 probes	12 probes	[,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 probe	3 probes	6 probes	12 probes		1 probe	3 probes	6 probes	12 probes
LO	ptyrad	1.47 ± 0.006	2.34 ± 0.01	3.61 ± 0.005	6.15 ± 0.01	ptyrad	3.33 ± 0.01	4.87 ± 0.01	7.13 ± 0.009		ptyrad	6.97 ± 0.01	9.52 ± 0.01	13.3 ± 0.01	20.9 ± 0.01
딩	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
batch		0.813 ± 0.05	1.46 ± 0.06		4.43 ± 0.1	py4dstem	1.58 ± 0.06		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
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	1.47 ± 0.1		3.55 ± 0.008	6.11 ± 0.007	ptyrad	3.25 ± 0.008	4.8 ± 0.007	7.08 ± 0.009		ptyrad	6.85 ± 0.008	9.45 ± 0.007	13.2 ± 0.008	MOO
호	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	MOO
batch	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	ООМ	py4dstem	2.44 ± 0.02	6.11 ± 0.07	11.6 ± 0.1	ООМ
7															