

Mode	Per-datum or -sample cost	Implementation	Laplacian	Weighted Laplacian	Biharmonic
Exact	Time [ms]	Nested 1 st -order	0.61 (1.0x)	0.60 (1.0x)	1.2 (1.0x)
		Standard Taylor	0.56 (0.93x)	0.57 (0.94x)	0.90 (0.72x)
		Collapsed (ours)	0.29 (0.48x)	0.29 (0.48x)	0.69 (0.55x)
	Mem. [MiB] (differentiable)	Nested 1 st -order	4.4 (1.0x)	4.4 (1.0x)	7.9 (1.0x)
		Standard Taylor	4.6 (1.0x)	4.6 (1.0x)	7.7 (0.98x)
		Collapsed (ours)	2.1 (0.47x)	2.1 (0.47x)	4.8 (0.61x)
Stochastic	Time [ms]	Nested 1 st -order	2.2 (1.0x)	2.2 (1.0x)	3.5 (1.0x)
		Standard Taylor	1.2 (0.54x)	1.2 (0.54x)	1.2 (0.36x)
		Collapsed (ours)	0.90 (0.41x)	0.90 (0.41x)	1.1 (0.33x)
	Mem. [MiB] (differentiable)	Nested 1 st -order	24 (1.0x)	24 (1.0x)	44 (1.0x)
		Standard Taylor	23 (0.97x)	23 (0.97x)	6.6 (0.15x)
		Collapsed (ours)	12 (0.49x)	12 (0.49x)	4.9 (0.11x)
Stochastic	Mem. [MiB] (non-diff.)	Nested 1 st -order	180 (1.0x)	180 (1.0x)	210 (1.0x)
		Standard Taylor	200 (1.2x)	200 (1.2x)	64 (0.30x)
		Collapsed (ours)	89 (0.50x)	89 (0.50x)	38 (0.18x)
	Mem. [MiB] (non-diff.)	Nested 1 st -order	89 (1.0x)	90 (1.0x)	86 (1.0x)
		Standard Taylor	48 (0.54x)	48 (0.53x)	15 (0.17x)
		Collapsed (ours)	36 (0.40x)	36 (0.40x)	13 (0.16x)