Performance Charts

Top-left corner is machine, columns are number of threads, rows are type of parallel approach, and entries are in the form (time in seconds, speedup over 1 thread).

easy_4096.txt:

max_occupancy = 2

within.average_total = 122020, across.average_total = 122140

GATES	1	2	4	8
within	0.376 (1.00x)	0.201 (1.87x)	0.109 (3.45x)	0.062 (6.06x)
across	0.429 (1.00x)	0.228 (1.88x)	0.126 (3.40x)	0.074 (5.80x)

medium_4096.txt:

max_occupancy: 3

within.average_total = 603223, across.average_total = 609545

GATES	1	2	4	8
within	8.843 (1.00x)	4.538 (1.94x)	2.380 (3.72x)	1.246 (7.01x)
across	9.098 (1.00x)	4.674 (1.95x)	2.408 (3.78x)	1.345 (6.76x)

hard_4096.txt:

max_occupancy: 3

within.average_total = 1042600, across.average_total = 1048084

GATES	1	2	4	8
within	9.945	5.121 (1.94x)	2.679 (3.71)	1.428 (6.96x)
across	10.372	5.204 (1.99x)	2.810 (3.69x)	1.434 (7.32x)

PSC MCHN	16	32	64	128
within	1.254 (7.93x)	0.7556 (13.16x)	0.547 (18.18x)	0.672 (14.80x)
across	0.940 (11.03x)	0.860 (12.06x)	0.848 (12.23x)	1.000 (10.37x)

extreme_4096.txt:

max_occupancy: 6

within.average_total= 26431934, across.average_total= 26930336

GATES	1	2	4	8
within	38.509 (1.00x)	19.927 (1.91x)	11.132 (3.41x)	6.644 (5.72x)
across	36.111 (1.00x)	19.690 (1.83x)	10.424 (3.46x)	6.046 (5.96x)

PSC	16	32	64	128
within	7.235 (5.25x)	8.289 (4.68x)	7.684 (5.011x)	10.934 (3.521x)
across	4.207 (8.85x)	2.451 (14.73x)	1.626 (22.21x)	1.736 (20.80x)

impossible_4096.txt:

max_occupancy: 11

Within.average_total = 28103089, across.average_total = 2612771

PSC	16	32	64	128
within	46.543	32.247	27.960	27.467
across	21.243	11.226	6.842	5.567