

Bound constraints problems - Tables

Algorithm	Iterations	Time	CostEvals	Failures
SPG	3061.3 ± 1048.0	0.9471 ± 0.3195	5028.6 ± 1577.8	0
PGMM	547.3 ± 67.7	0.2187 ± 0.0335	2187.8 ± 270.7	0

Table 1: Results for problem a1a

Algorithm	Iterations	Time	CostEvals	Failures
SPG	1620.5 ± 547.1	4.1143 ± 1.4230	2639.7 ± 889.1	0
PGMM	296.5 ± 27.5	1.1193 ± 0.1021	1184.6 ± 109.6	0

Table 2: Results for problem a9a

Algorithm	Iterations	Time	CostEvals	Failures
SPG	274.1 ± 38.0	5.2998 ± 0.7873	512.8 ± 83.4	0
PGMM	138.2 ± 35.1	4.1159 ± 1.0362	556.6 ± 140.2	0

Table 3: Results for problem gisette

Algorithm	Iterations	Time	CostEvals	Failures
SPG	45522.6 ± 5721.7	18.3104 ± 2.1765	95891.1 ± 10907.7	5
PGMM	7864.4 ± 481.1	3.9866 ± 0.2311	31468.9 ± 1924.2	0

Table 4: Results for problem madelon

Algorithm	Iterations	Time	CostEvals	Failures
SPG	185.6 ± 13.2	0.1105 ± 0.0128	263.2 ± 23.3	0
PGMM	82.1 ± 9.3	0.0673 ± 0.0170	327.0 ± 36.9	0

Table 5: Results for problem mushrooms

Algorithm	Iterations	Time	CostEvals	Failures
SPG	411.2 ± 116.9	0.2007 ± 0.0630	630.1 ± 179.5	0
PGMM	131.6 ± 13.2	0.0986 ± 0.0110	525.4 ± 52.8	0

Table 6: Results for problem phishing

Algorithm	Iterations	Time	CostEvals	Failures
SPG	5676.8 ± 750.0	0.8469 ± 0.1124	9223.2 ± 1262.4	0
PGMM	1976.2 ± 245.7	0.3268 ± 0.0367	7910.5 ± 984.7	0

Table 7: Results for problem sonar

Algorithm	Iterations	Time	CostEvals	Failures
SPG	15.3 ± 1.6	0.0040 ± 0.0005	16.3 ± 1.6	0
PGMM	12.2 ± 0.9	0.0044 ± 0.0005	46.8 ± 3.7	0

Table 8: Results for problem splice

Algorithm	Iterations	Time	CostEvals	Failures
SPG	249.5 ± 44.8	0.1005 ± 0.0177	357.5 ± 69.2	0
PGMM	167.1 ± 24.6	0.0911 ± 0.0131	666.4 ± 98.3	0

Table 9: Results for problem w1a

Algorithm	Iterations	Time	CostEvals	Failures
SPG	197.5 ± 26.3	1.6360 ± 0.2476	271.2 ± 41.3	0
PGMM	119.4 ± 13.7	1.7302 ± 0.2109	475.6 ± 55.0	0

Table 10: Results for problem w8a