

## Bound constraints problems - Tables

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

Table 1: Results for problem a1a

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

Table 2: Results for problem a9a

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

Table 3: Results for problem gisette

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

Table 4: Results for problem madelon

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

Table 5: Results for problem mushrooms

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

Table 6: Results for problem phishing

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

Table 7: Results for problem sonar

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

Table 8: Results for problem splice

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

Table 9: Results for problem w1a

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

Table 10: Results for problem w8a