

Table 1: Performance Results for Barrier\10Dn\_mu0.1Problem

Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
<b>GD</b>	2.00	$5.67 \times 10^{-11}$	2.00	2.00	304.6	0.0	0.008
L-BFGS-Conservative	2.00	$8.90 \times 10^{-9}$	2.00	2.00	404.7	0.0	0.010
GD-WeightDecay	2.00	$2.02 \times 10^{-5}$	2.00	2.00	49.5	0.0	0.002
Adam-WeightDecay	2.17	$6.77 \times 10^{-2}$	2.05	2.29	502.0	0.0	0.012
Trust Region-Adaptive	2.29	$4.93 \times 10^{-1}$	2.00	3.89	108.2	0.0	0.001
Trust Region-Standard	2.31	$4.66 \times 10^{-1}$	2.00	3.31	30.4	0.0	0.000
GD-Nesterov	2.51	$3.95 \times 10^{-2}$	2.44	2.59	21.0	0.0	0.001
Adam-Fast	2.62	$7.61 \times 10^{-2}$	2.45	2.74	31.4	0.0	0.001
GD-Momentum	3.25	$2.46 \times 10^{-1}$	2.73	3.65	21.1	0.0	0.001
Adam-AMSGrad	6.12	$3.39 \times 10^{-1}$	5.31	6.65	502.0	0.0	0.012
Adam	6.16	$3.75 \times 10^{-1}$	5.65	6.77	502.0	0.0	0.011
Trust Region-Conservative	8.12	$8.57 \times 10^{-1}$	6.05	9.68	602.0	0.0	0.004