Benchmark OptimalControl Results max iter = 1000, tol = 1.0e-8, constr viol tol = 1.0e-6, solver = ma57Discretization Iterations Total Time Ipopt Time Objective Value

Model

robot

electrical\_vehicle

electrical\_vehicle

double\_oscillator

double\_oscillator

ducted\_fan

ducted\_fan

steering

steering

glider

glider

rocket

rocket

chain

chain

dielectrophoretic\_particle

dielectrophoretic\_particle

500

100

500

100

500

100

500

100

500

100

500

100

500

100

500

100

500

cart\_pendulum 100 237 5.81684 1.569 1.74413 Solve Succeeded cart\_pendulum 500 495 14.4824 13.888 1.74373 Solve Succeeded Solve Succeeded robot 100 9.14269

75 1.7994 0.523 24.1909 22.874 649 16

1000

5

5

162

163

11

17

230

755

21

77

14

38

38

2.21541

1.12088

0.290609

2.72071

124.051

0.343898

0.389479

4.82419

650.147

0.133355

7.86265

0.319346

0.218898

0.780826

1.87301

13.9399

0.18813.823 0.109

0.094

1.233

123.402

0.042

0.225

3.333

649.668

0.073

7.468

0.039

0.132

0.108

1.743

9.14099

1.22905e6

231779.0

0.000908244

0.000910921

1832.95

1831.66

0.554595

0.554572

1254.61

1247.98

1.01283

1.01284

5.06978

5.06858

-9.97699e-9

-9.99545e-9

Flag

Solve Succeeded

Solve\_Succeeded

Maximum\_Iterations\_Exceeded

Solve\_Succeeded

Solve\_Succeeded

Solve\_Succeeded

Solve\_Succeeded Solve\_Succeeded

Solve\_Succeeded

Solve\_Succeeded

Solve\_Succeeded Solve\_Succeeded

Solve\_Succeeded

Solve\_Succeeded

Solve\_Succeeded Infeasible Problem Detected

Infeasible\_Problem\_Detected