

**Benchmark models with JuMP and OptimalControl**  
max iter = 1000, tol = 1.0e-8, constr viol tol = 1.0e-6, solver = ma57

Model	Discretization	Total Time JuMP	Total Time OC	Iterations JuMP	Iterations OC
ducted_fan	100	0.43	1.24	59	87
ducted_fan	400	7.38	6.18	54	47
ducted_fan	500	15.29	25.04	67	69
ducted_fan	1000	129.67	940.14	119	53
rocket	100	0.03	0.12	19	22
rocket	400	0.2	0.96	40	30
rocket	500	0.35	5.75	59	62
rocket	1000	0.34	162.25	24	123
dielectrophoretic_particle	100	0.02	0.39	39	50
dielectrophoretic_particle	400	0.09	0.52	30	30
dielectrophoretic_particle	500	3.19	0.56	39	32
dielectrophoretic_particle	1000	0.3	116.46	49	55
electrical_vehicle	100	0.01	0.47	5	17
electrical_vehicle	400	0.01	0.97	5	19
electrical_vehicle	500	0.02	1.73	5	21
electrical_vehicle	1000	0.05	12.36	5	77