

# Benchmark Callbacks of rocket model with JuMP and OptimalControl

Model	Discretization	nnz Hessian	nnz Jacobian	Time Obj(*e-5)	Time Grad(*e-5)	Time Cons(*e-4)	Time Jac(*e-4)	Time Hess(*e-4)
JuMP	500	24500	9504	1526.5	7494.0	109.21	77.06	24.4
JuMP	100	4900	1904	3.2	1.5	2.16	1.6	4.64
OptimalControl	500	5511	9504	2.3	1.5	9.74	62.56	63.54
OptimalControl	100	1111	1904	2.7	1.1	2.46	27.05	19.5