## 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 | 0.7 | 6.8 | 23.03 | 22.17 | 47.57 |
| JuMP | 100 | 4900 | 1904 | 0.2 | 2.0 | 2.34 | 1.72 | 6.89 |
| OptimalControl | 500 | 5511 | 9504 | 369.0 | 24.1 | 74.41 | 303.68 | 166.79 |
| OptimalControl | 100 | 1111 | 1904 | 1.8 | 1.6 | 8.65 | 52.47 | 24.45 |