

Optimization Homework #4

Ryan Day

February 20, 2019

1 Truss Optimization

1.1 Scaling

As far as I can tell, scaling the constraints would be useful if the constraints were an order of magnitude higher than the design variables. The design variables are all around the same order of magnitude,, so I don't see the use of scaling there.

	Number of function calls	Number of Iterations	Avg Time of execution	Stopping Criterion
No Derivatives supplied	495	19	0.573	
Forward method	991	19	0.6320	
Central method	3139	39	1.1457	
Complex method	991	19	0.932	