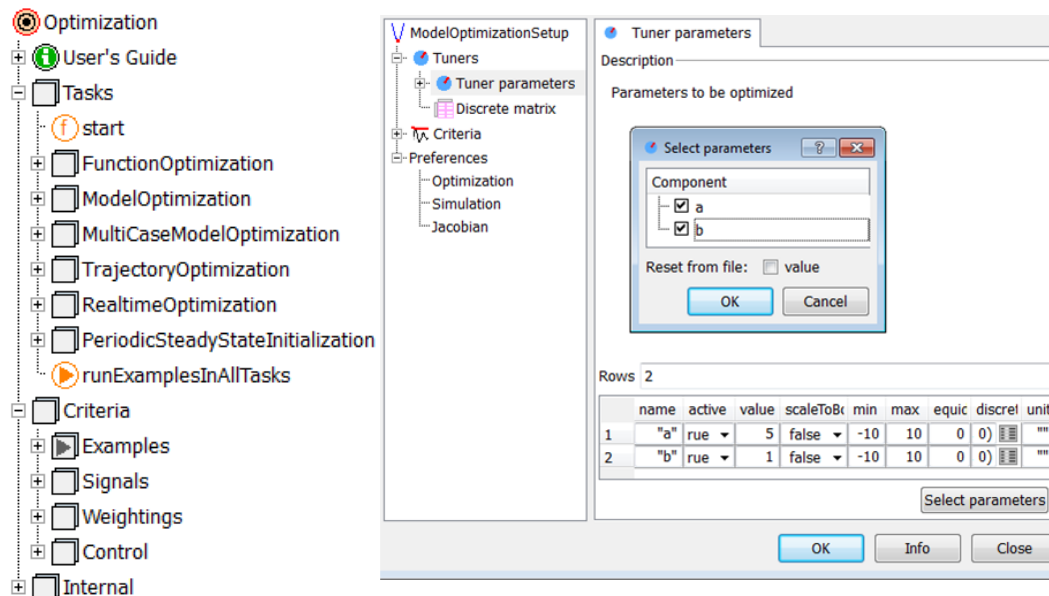


# Optimization Library for Interactive Multi-Criteria Optimization Tasks

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The commercial library Optimization 2.1 for interactive multi-criteria optimization tasks has been released along with Dymola 2013. The library offers several numerical optimization algorithms for solving different kinds of optimization tasks. User defined Modelica functions or models provide the basis for an interactive optimization process where the user keeps overview of complex multi-criteria optimization tasks that can take discrete parameters, several model operating points or trajectories into account. Computational performance of optimization runs can be significantly increased by parallel numerical integrations of the Modelica model on multi-core machines.



Final Solution (evaluation 10 of 10):

Tuner parameters		name	value	difference to start
		Kf	-5.5232595242712623	-1.8701419383966962
		Ki	-5.3042111393027085	-1.2579880640408883
		Kq	0.9929150386583678	0.2040424595732118

Criteria		name	scaled criteria	diff. to start	unscaled criteria
		overshoot	0.6179831900826351	-15.2%	0.0617983190082635
		maxElevator	0.999999998785056	37.2%	2.999999996355169
		riseTime	0.6179833954077121	-15.2%	0.308991697703856
		settlingTime	0.6179845192191472	-15.2%	1.544961298047868
		Maximum of criteria	0.6179845192191472	-15.2%	