

Dynamics	Model	No counterexample found				Counterexample found at $k$					
		$f_1^\top$		$f_2^\top$		$f_1^\perp$			$f_2^\perp$		
		Size	Time	Size	Time	Size	Time	k	Size	Time	k
Linear (N = 50)	Car	8.7	262.2	15.3	156.9	2.8	14.5	14	3.7	18.1	15
	Thermo	8.1	486.1	14.7	3596.8	3.3	9.2	14	2.8	5.8	14
	Water	8.5	501.5	15.2	886.0	2.3	2.7	13	4.2	85.1	17
	Battery	12.0	157.0	17.8	242.1	2.3	3.7	9	2.4	159.1	8
	Rail	7.5	400.7	13.5	176.0	1.8	1.2	11	3.9	14.8	20
Poly (N = 20)	Car	5.7	56.82	7.2	4.5	2.3	2.3	7	2.8	7.5	8
	Thermo	3.3	4.4	4.8	23.1	0.9	0.5	4	0.9	0.9	4
	Water	3.5	28.4	5.0	4.8	0.8	0.2	4	1.2	2.4	5
	Battery	5.1	14.1	6.2	6.4	2.1	36.4	8	1.5	0.6	5
	Rail	3.0	26.7	4.5	78.0	1.1	0.5	6	1.0	0.6	5
ODE (N = 2)	Car	0.7	116.0	0.8	7189.0	0.7	484.8	2	0.8	2410.6	2
	Thermo	0.2	1.33	0.3	58.3	0.2	0.7	2	0.3	38.1	2
	Water	0.2	2.1	0.3	102.9	0.2	4.4	2	0.2	33.4	2
	Battery	0.3	0.08	0.3	447.2	0.3	24.9	2	0.3	231.7	2
	Rail	0.3	13.9	0.4	373.7	0.3	7.9	2	0.4	614.9	2