

C Hyperparameters used

Tables 7 and 8 summarize the hyperparameters used in the **test** partitions of the CA, MIS, and MVC benchmarks for each method.

Table 7. Hyperparameters (θ, α) used by BACKPAS and BACKPAS-PARAM on the **test** partitions of CA, MIS and MVC benchmarks.

Benchmark	BACKPAS	BACKPAS-PARAM
CA	(0.8231211, -0.7828316)	(0.6294576, 0.8672775)
MIS	(0.6161128, -0.9946887)	(0.6071678, -0.7594742)
MVC	(0.9958419, -0.9282533)	(0.9470682, -0.0458712)

Table 8. Hyperparameters (k_0, k_1, Δ) used by BACKPAS-V0, BACKPAS-NET and CONPAS on the **test** partitions of CA, MIS and MVC benchmarks.

Benchmark	BACKPAS-V0	BACKPAS-NET	CONPAS
CA	(826, 1824, 1378)	(1063, 839, 1449)	(1500, 0, 0)
MIS	(1091, 591, 53)	(2180, 935, 23)	(500, 500, 10)
MVC	(1087, 1414, 296)	(728, 2286, 2)	(500, 100, 15)