

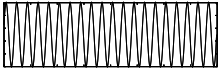
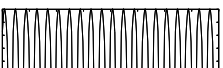


desired behavior env. input		sine	step
		32.15 ± 1.73 std. err. best evolved: 29.70	81.77 ± 20.4 std. err. best evolved: 52.90
		40.43 ± 2.23 std. err. best evolved: 34.87	71.76 ± 11.1 std. err. best evolved: 55.03
		47.04 ± 0.0 std. err. best evolved: 47.04	59.46 ± 0.0 std. err. best evolved: 59.46
		52.59 ± 5.98 std. err. best evolved: 25.71	73.95 ± 7.53 std. err. best evolved: 40.92

Table 1: Outcomes of runs, with the leftmost column depicting the environmental stimuli used and the topmost row the desired output behavior for every run. The data cells show the final deviation averaged over 10 repetitions with 250 generations each,  $\pm$  its standard error and the best adapted GRNs deviation as well as a graph of its lifetime behavior. Note that during the runs blackouts occurred randomly and the regularity is only to ease reading of this table.

These are results from runs with smooth matching but *WITHOUT* specificity factors, with gradually increasing pressure for differentiation. (Specificity factors were actually still there, but their levels were not considered for protein distribution – instead a constant specificity value of 1.5 was used.)