

Hopcroft state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 10 20 30 40 50 60 0 70

Number of states in the original automaton

2.00

1.75

1.50

1.25

1.00

0.75

0.50

0.25

0.00

Number of removed states

Hopcroft state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 0.5 Relative number of removed states 0.4 0.3 0.2 0.1 0.0 30 0 10 20 40 50 60 70 Number of states in the original automaton

Hopcroft state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 0.5 Relative number of removed states 0.4 0.3 0.2 0.1 0.0 5.0 1.5 2.0 2.5 4.0 1.0 3.0 3.5 4.5 Number of SCCs in the original automaton

Hopcroft state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 0.5 Relative number of removed states 0.4 0.3 0.2 0.1 0.0 1.5 2.5 2.0 3.0 4.0 1.0 3.5 Number of priorities in the original automaton

