## Repair scenario, execution time Read Check Read and Check 200000 200000 200000 100000 = 100000: 100000 50000 -50000 50000 20000 20000 20000 10000 = 10000: 10000: 5000 5000 5000 2000 2000 2000 1000 = 1000 1000 500 500 500 200 200 200 100 = 100: 100 50 50 50 20 20 20 10 = 10 = 10 5 -5 5 Execution times [ms] 2 2 2 4 16 64 256 1024 16 64 256 1024 16 64 256 1024 8k 9.3M 9.3M 9.3M 33k 135k 566k 2.2M 8k 33k 135k 566k 2.2M 8k 33k 135k 566k 2.2M Transformation Recheck Transformation and Recheck 200000 -200000 200000 100000 = 100000 100000 50000 50000 50000 20000 20000 20000 10000 10000 10000 5000 5000 5000 2000 2000 2000 1000 = 1000 1000 500 500 500 200 200 200 100 = 100 100 50 50 50 20 20 20 10 10 10 5 5 5 2 2 2 1 1 1 0.5 0.5 0.5 0.2 0.2 0.2 0.1 0.1 0.1 0.05 0.05 0.05 0.02 -0.02 0.02 0.01 0.01 0.01 0.005 0.005 0.005 16 64 256 1024 16 64 256 1024 16 64 256 1024 4 4 33k 33k 8k 33k 135k 566k 2.2M 9.3M 8k 135k 566k 2.2M 9.3M 8k 135k 566k 2.2M 9.3M

Model size #Elements