OMEinsumContractionOrders (v1.0.0) Benchmark Results

Note: the `Treewidth` optimizer is greedy, only a subset of backends (`MF`, `MMD`, `AMF`) are tested (check Issue 2).

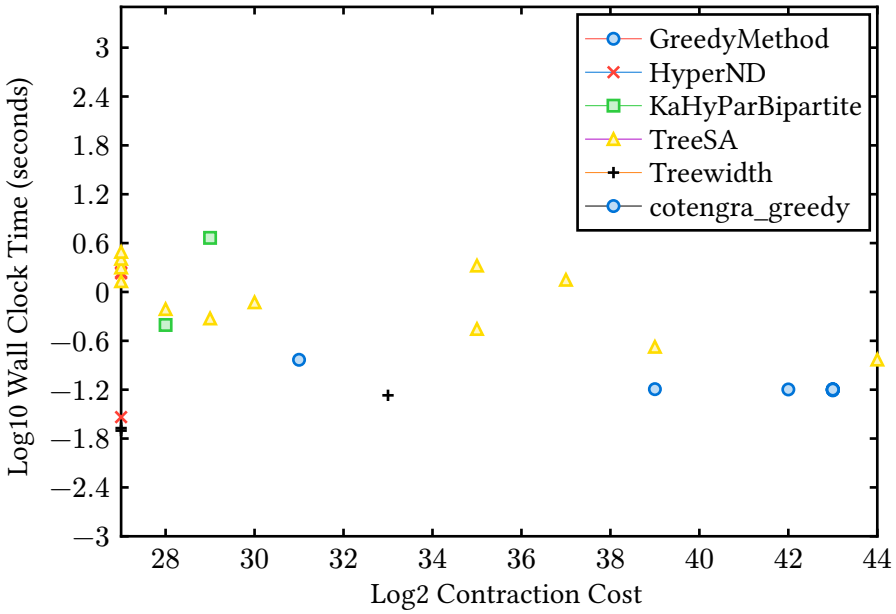

Figure 1: Scatter plot for **einsumorg/qc_qft_27** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.

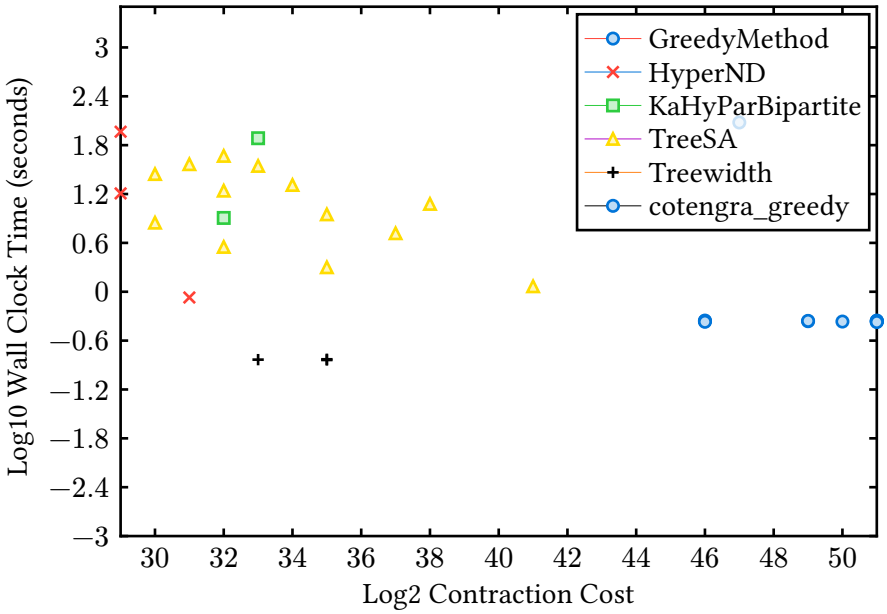

Figure 2: Scatter plot for **independentset/ksg** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.

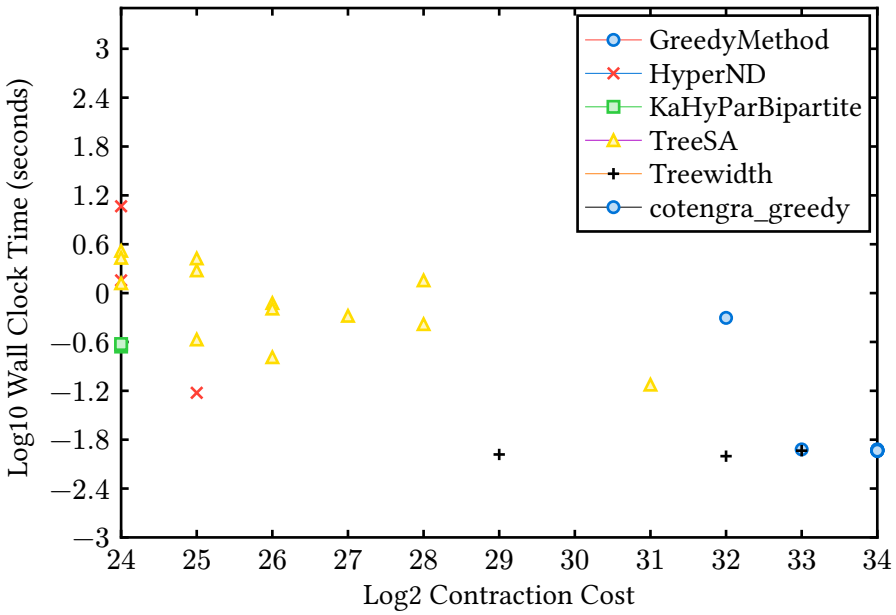

Figure 3: Scatter plot for **independentset/rg3** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.

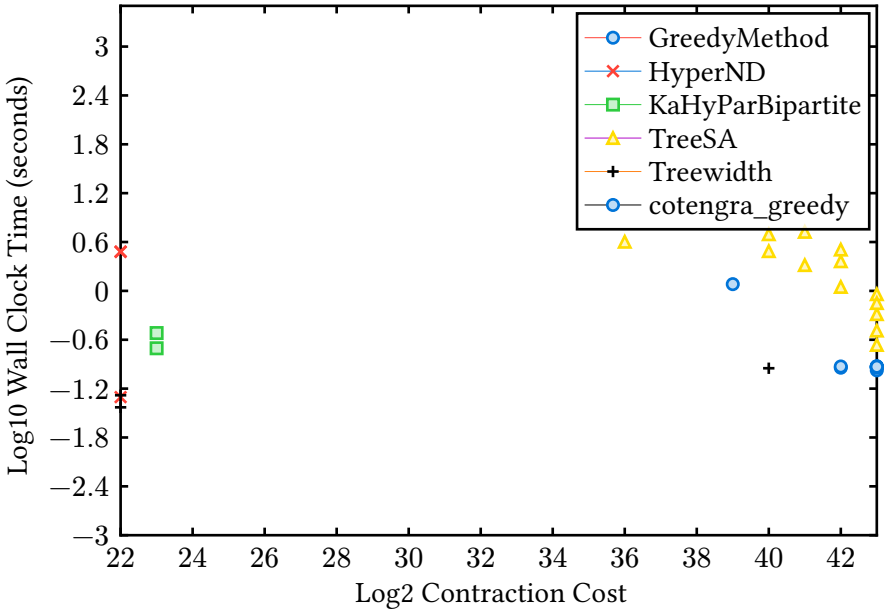

Figure 4: Scatter plot for **inference/DBN_13** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.

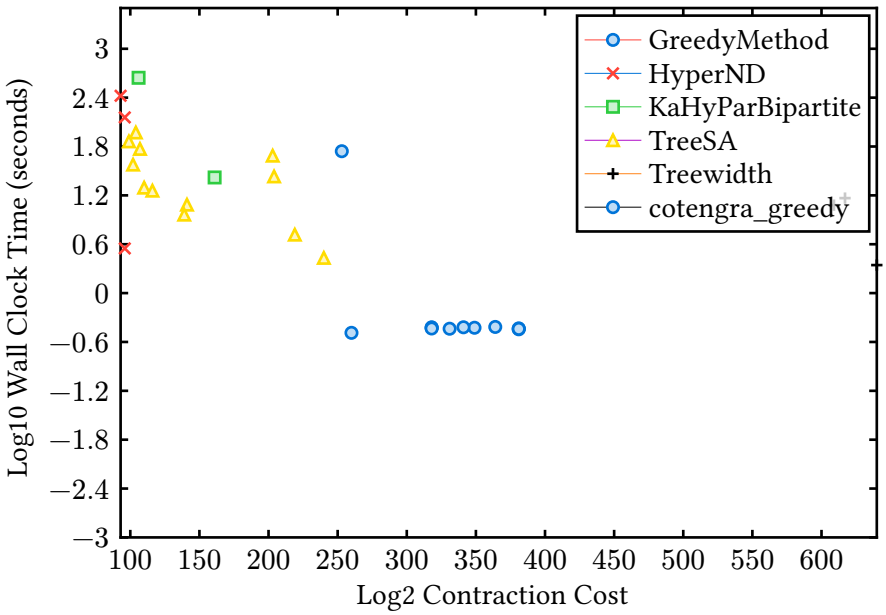

Figure 5: Scatter plot for **nqueens/nqueens_n=28** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.

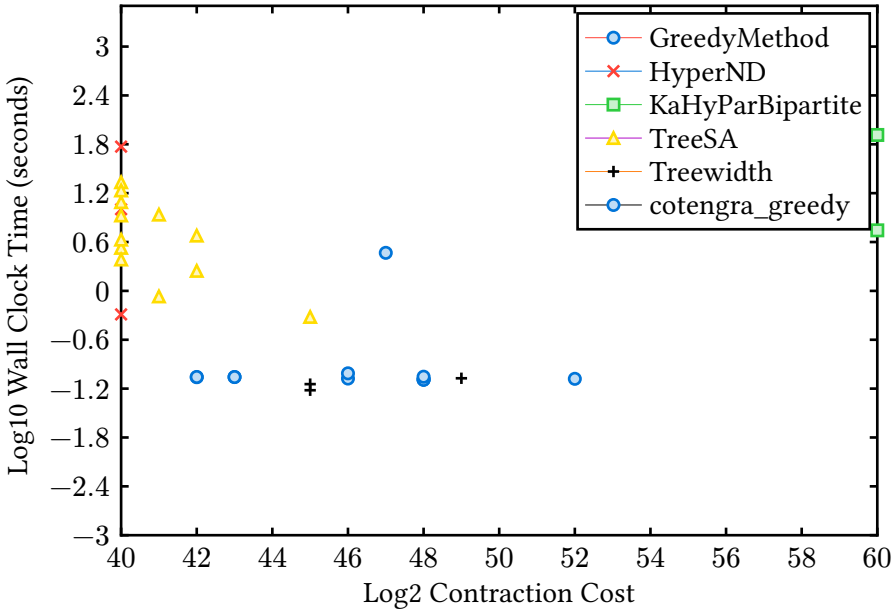

Figure 6: Scatter plot for **qec/surfacecode_d=21** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.

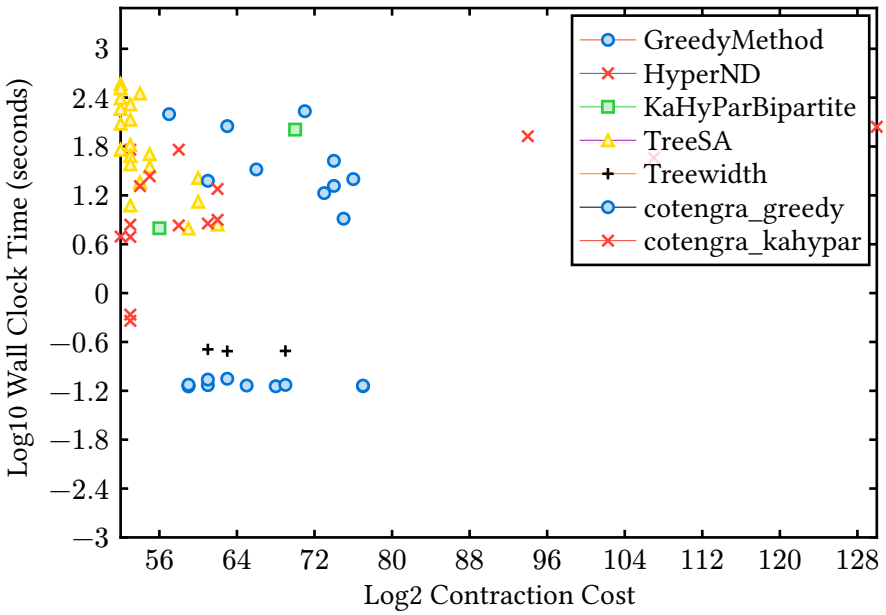

Figure 7: Scatter plot for **quantumcircuit/sycamore_53_20_0** showing contraction cost (1*sc + 0*tc + 0*rwc) vs computing time for different optimizers.