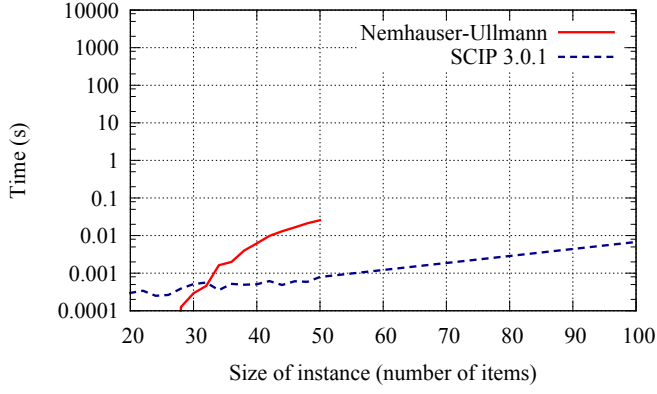
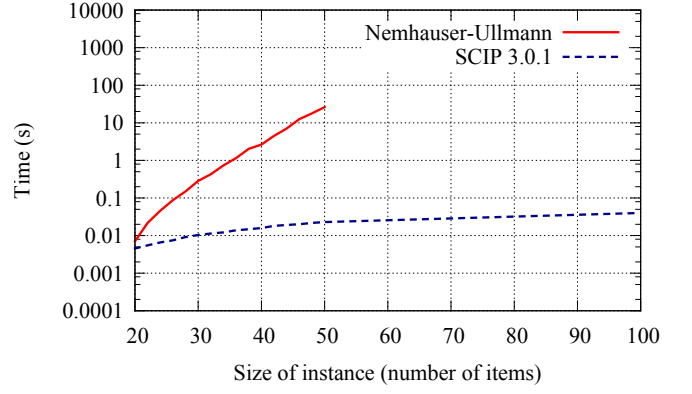


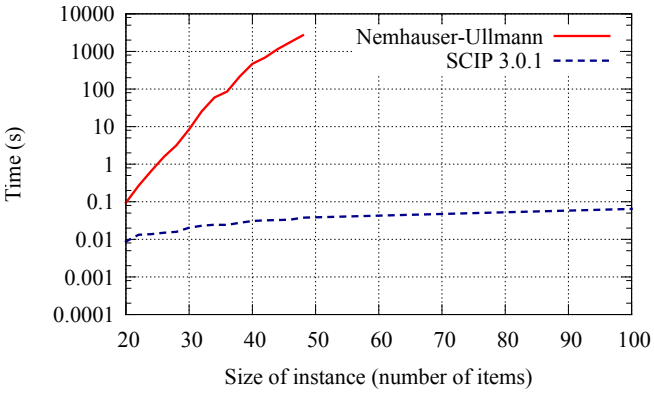
MKP Benchmark: Branch-and-cut approach x Nemhauser-Ullman Algorithm



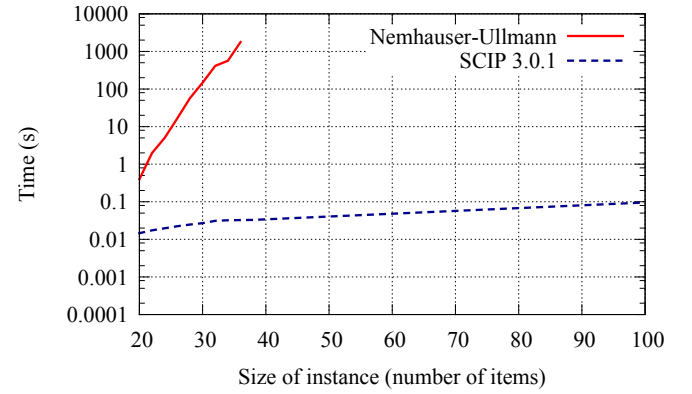
(a) Execution time for MKP having 1 constraint.



(b) Execution time for MKP having 2 constraint.



(c) Execution time for MKP having 3 constraint.



(d) Execution time for MKP having 4 constraint.

Figure 1: Average running time for solving MKP instances using the Nemhauser-Ullmann algorithm and SCIP solver. Each subfigure addresses a different number of constraint. The y-axis (time) is on logarithmic scale.