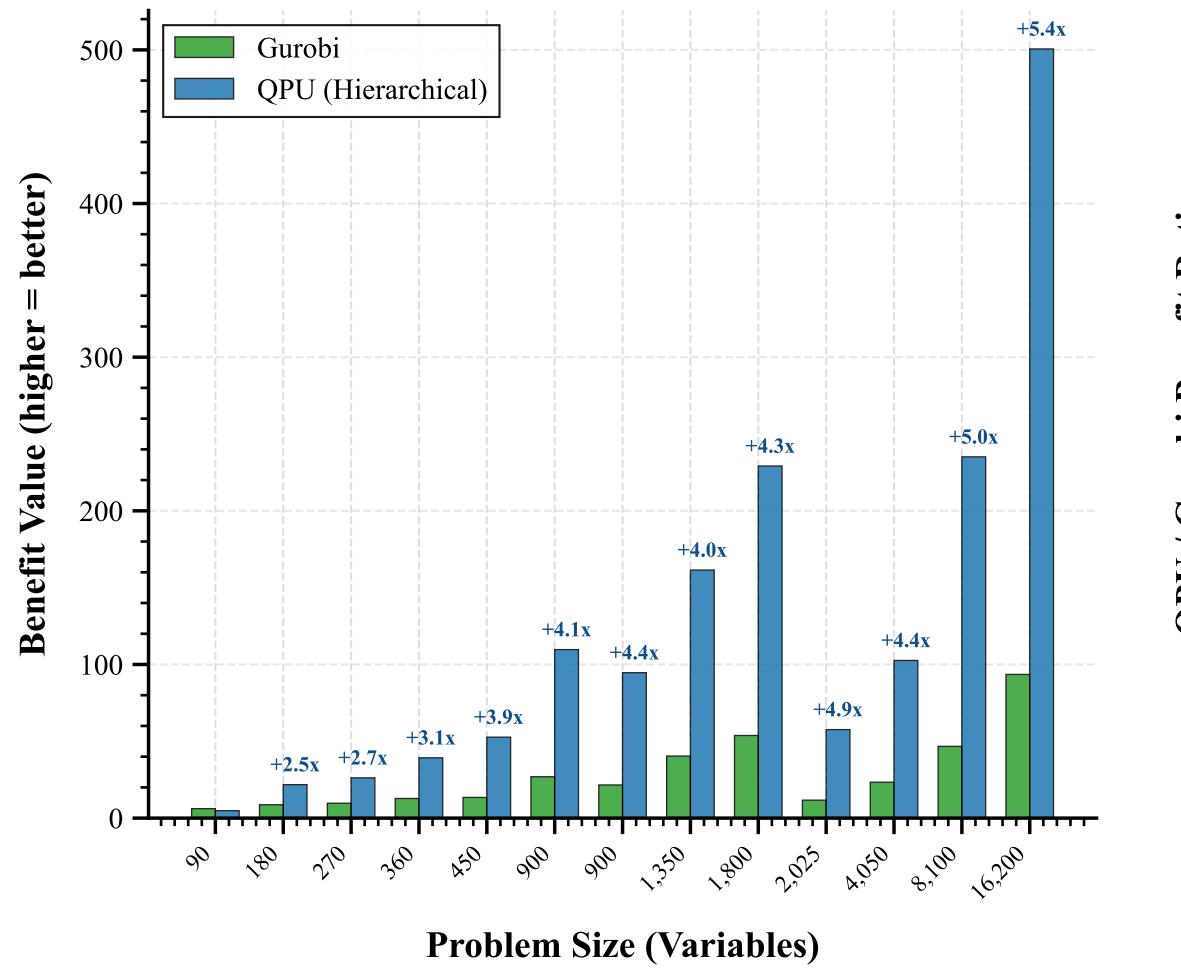
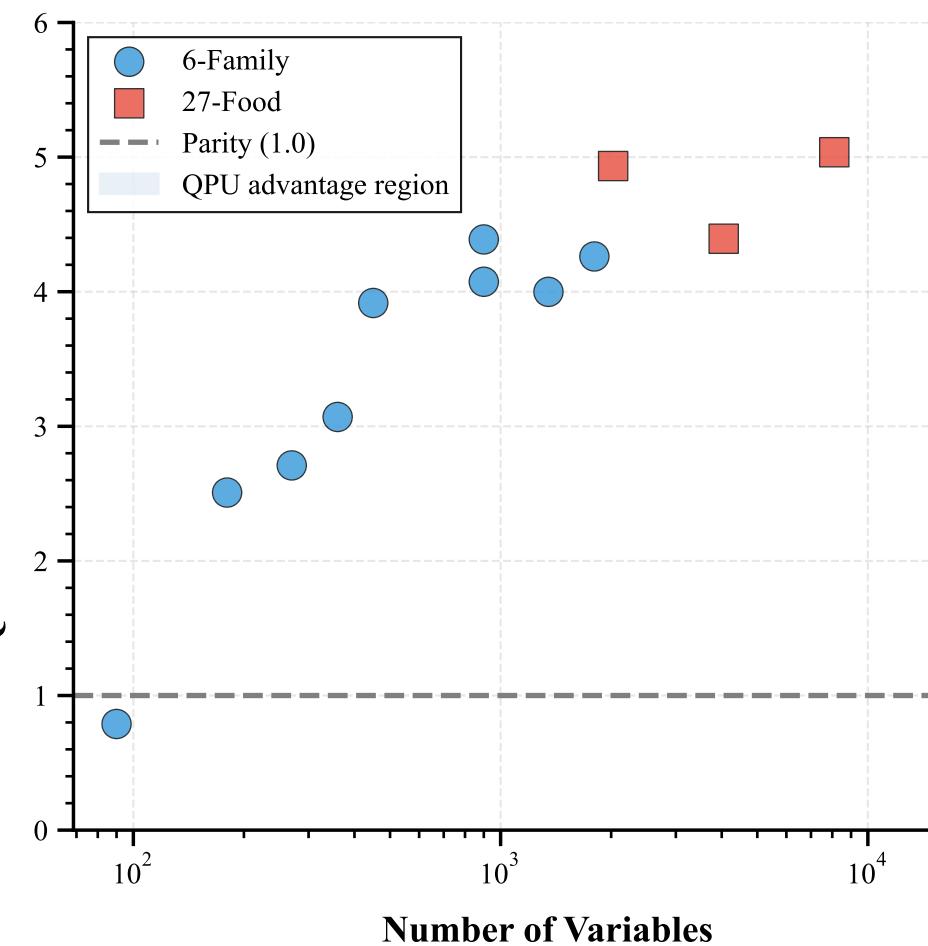
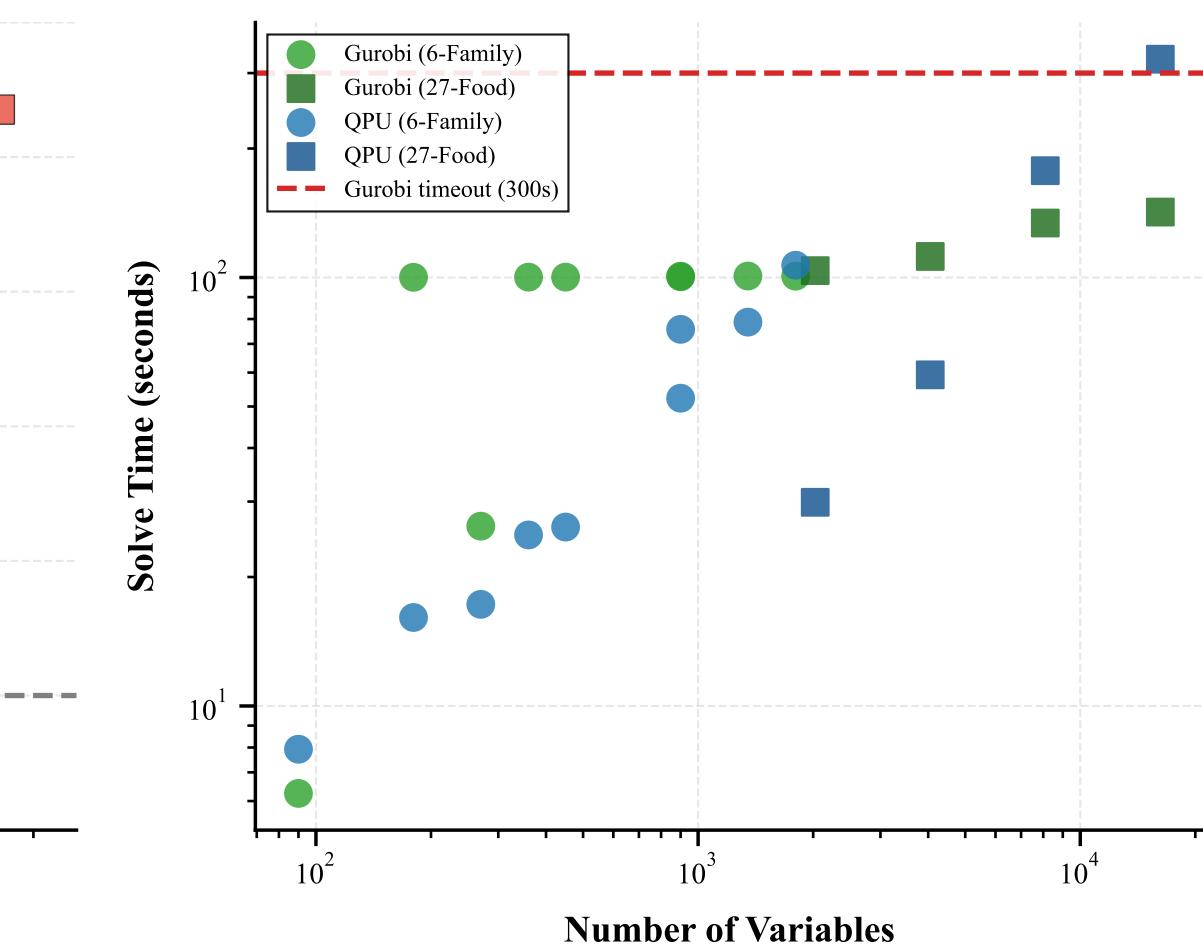
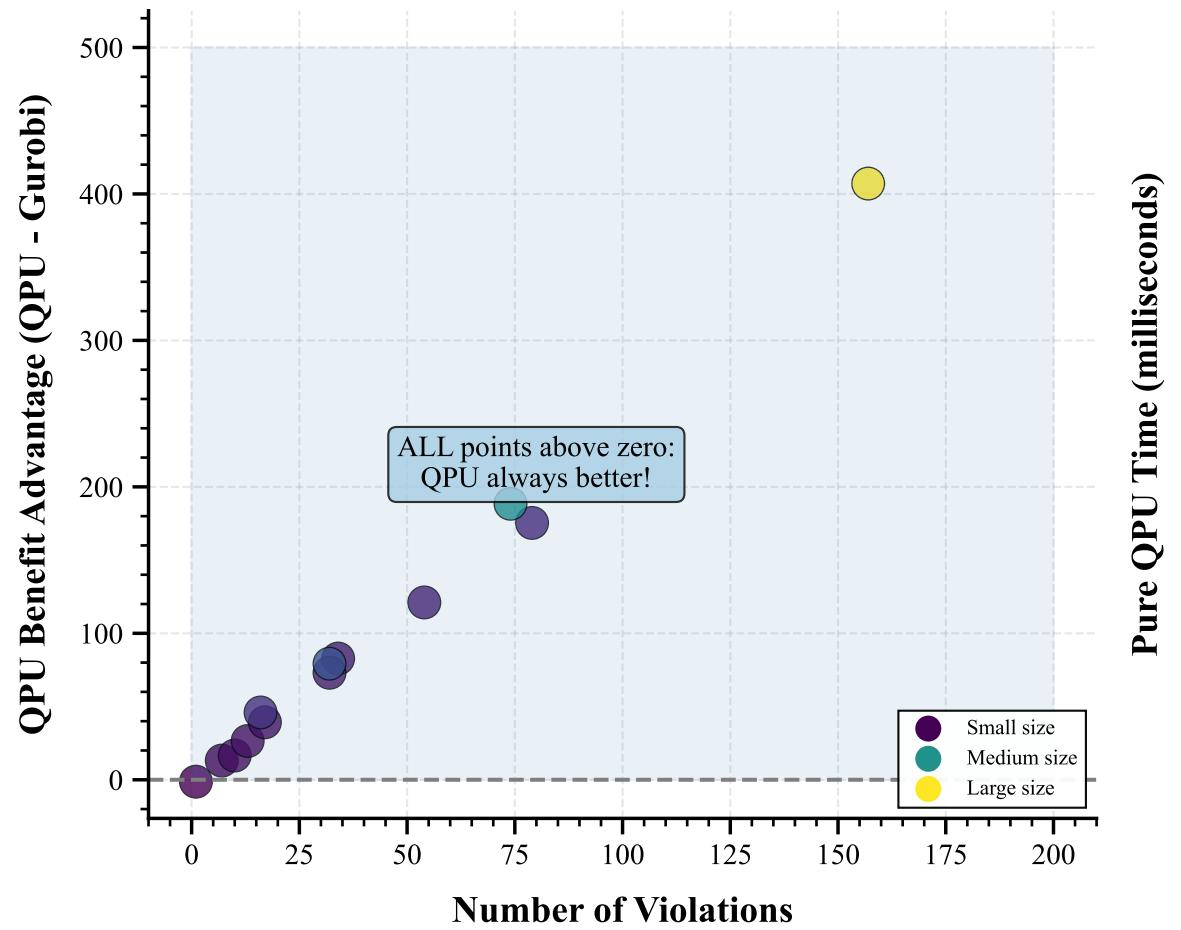
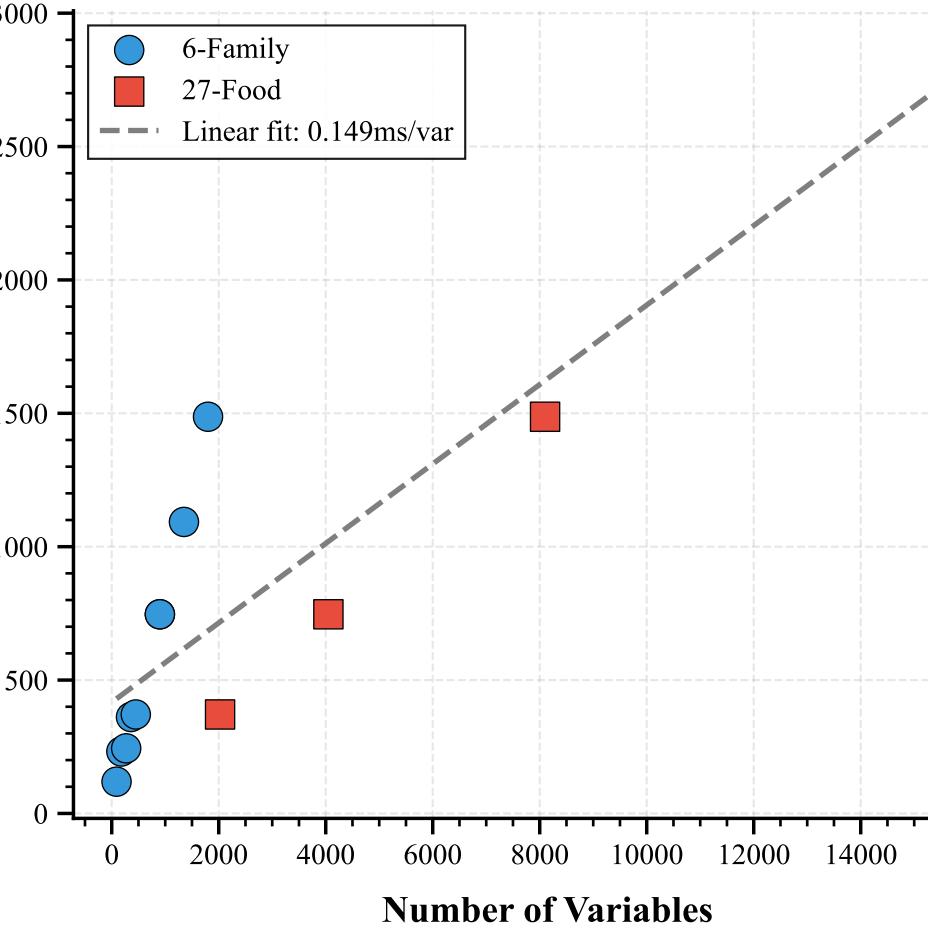


**QPU Achieves Higher Benefit Than Gurobi****QPU Advantage Increases with Problem Size****Solve Time Comparison****Violations Trade-off: Higher Benefit Despite Violations****Pure QPU Time Scales Linearly****Summary: QPU Outperforms Gurobi**

Metric	6-Family	27-Food	Overall
Scenarios	9	4	13
Avg Gurobi Benefit	21.5	43.8	28.4
Avg QPU Benefit	82.2	224.0	125.8
Avg Benefit Ratio	3.30x	4.93x	3.80x
Avg Violation Rate	21.2%	23.4%	21.9%
Gurobi Timeouts	7/9	4/4	11/13
Avg QPU Time	45.1s	147.5s	76.6s
Pure QPU %	1.3%	0.9%	1.1%