QPU Benchmark Summary Table

Scale	Method	Objective	Gap (%)	Wall Time (s)	QPU Time (s)	Violations	Status
10	Gurobi	0.3595	0.0	0.01	N/A	0	☐ Feas
10	PlotBased_QPU	0.3641	-1.3	35.29	1.726	0	☐ Feas
10	Multilevel(10)_QPU	0.2690	25.2	13.48	0.416	0	☐ Feas
10	Louvain_QPU	0.3390	5.7	45.25	3.712	0	☐ Feas
10	cqm_first_PlotBased	0.2987	16.9	61.61	1.584	0	☐ Feas
10	coordinated	0.4212	-17.2	44.80	0.999	1	☐ 1v
15	Gurobi	0.3830	0.0	0.02	N/A	0	☐ Feas
15	PlotBased_QPU	0.3398	11.3	52.52	2.305	0	☐ Feas
15	Multilevel(10)_QPU	0.2412	37.0	43.57	0.579	1	☐ 1v
15	Louvain_QPU	0.3448	10.0	72.59	4.461	0	☐ Feas
15	cqm_first_PlotBased	0.3903	-1.9	50.98	2.599	0	☐ Feas
15	coordinated	0.2632	31.3	53.24	1.422	0	☐ Feas
50	Gurobi	0.4159	0.0	0.01	N/A	0	☐ Feas
50	PlotBased_QPU	0.3598	13.5	266.87	7.926	1	☐ 1v
50	Multilevel(10)_QPU	0.2701	35.0	128.56	1.513	1	☐ 1v
50	Louvain_QPU	0.3557	14.5	263.06	10.103	0	☐ Feas
50	cqm_first_PlotBased	0.3866	7.0	236.08	7.715	0	☐ Feas
50	coordinated	0.3829	7.9	195.59	4.233	2	☐ 2v
100	Gurobi	0.4229	0.0	0.03	N/A	0	☐ Feas
100	PlotBased_QPU	0.3531	16.5	397.49	15.265	1	☐ 1v
100	Multilevel(10)_QPU	0.2645	37.5	198.32	2.847	0	☐ Feas
100	Louvain_QPU	0.3497	17.3	497.48	16.723	0	☐ Feas
100	cqm_first_PlotBased	0.2847	32.7	369.15	15.674	0	☐ Feas
100	coordinated	0.3604	14.8	328.92	8.622	0	☐ Feas
200	Gurobi	0.4264	0.0	0.14	N/A	0	☐ Feas
200	Multilevel(10)_QPU	0.2591	39.2	388.68	5.479	0	☐ Feas
200	cqm_first_PlotBased	0.2886	32.3	639.63	31.002	0	☐ Feas
200	coordinated	0.3720	12.8	591.38	16.699	5	☐ 5v
500	Gurobi	0.4285	0.0	0.14	N/A	0	☐ Feas
500	Multilevel(10)_QPU	0.2610	39.1	839.11	13.443	1	☐ 1v
500	cqm_first_PlotBased	0.3775	11.9	1773.77	76.333	0	☐ Feas
500	coordinated	0.3566	16.8	1459.92	42.250	6	☐ 6v
1000	Gurobi	0.4292	0.0	0.32	N/A	0	☐ Feas
1000	Multilevel(10)_QPU	0.2579	39.9	1632.70	26.833	0	☐ Feas
1000	cqm_first_PlotBased	0.2579	39.9	3495.37	153.229	0	☐ Feas
1000	coordinated	0.2926	31.8	3057.99	83.820	23	☐ 23v