

Results for instances from collection
Dispersion-QKP with strategy ran

File dispersion-qkp-ran_0100_005.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	5.0 %
Edges (m)	234

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	492.0	9.33	2.29	12.33	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.2	1.0
5.0	1,020.0	1.39	1.39	10.99	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.1	1.0
10.0	1,944.0	3.40	1.14	4.01	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.2	1.0
25.0	4,435.0	0.18	0.82	0.36	0.00	0.00	0.00	0.00	0.2	0.4	0.3	0.2	1.0
50.0	7,962.0	0.13	0.37	0.15	0.00	0.00	0.00	0.00	0.2	0.5	0.3	0.1	1.0
75.0	10,909.0	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
90.0	12,225.0	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	0.0
95.0	12,575.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.6	0.1	0.0	0.0
Avg		1.82	0.76	3.48	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.1	0.8
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.0	0.0
Max		9.33	2.29	12.33	0.00	0.00	0.00	0.00	0.4	0.6	0.3	0.2	1.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	25
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0100_010.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	10.0 %
Edges (m)	508

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	845.0	2.67	4.71	3.17	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.1	0.0
5.0	1,820.0	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.1	1.0
10.0	3,440.0	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.1	0.0
25.0	7,746.0	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.3	0.1	0.0
50.0	14,324.0	0.67	0.54	0.14	0.00	0.00	0.00	0.00	0.2	0.5	0.6	0.3	3.0
75.0	20,744.0	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
90.0	23,864.0	0.02	0.26	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
95.0	24,724.0	0.09	0.04	0.01	0.00	0.00	0.00	0.00	0.4	0.7	0.2	0.1	0.0
Avg		0.43	0.77	0.71	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.1	0.8
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.1	0.0
Max		2.67	4.71	3.17	0.00	0.00	0.00	0.00	0.4	0.7	0.6	0.3	3.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0100_025.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	25.0 %
Edges (m)	1,310

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	2,148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.5	2.0
5.0	3,799.0	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.7	1.0
10.0	6,900.0	0.45	0.20	0.20	0.00	0.00	0.00	0.00	0.1	0.2	0.4	1.0	5.0
25.0	17,570.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.4	0.2	2.0
50.0	34,370.0	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.5	0.7	0.7	3.0
75.0	51,176.0	0.29	0.10	0.07	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.8	3.0
90.0	60,341.0	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	1.2	5.0
95.0	63,213.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.7	0.1	0.1	0.0
Avg		0.16	0.33	0.03	0.00	0.00	0.00	0.00	0.2	0.4	0.3	0.6	2.6
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.1	0.0
Max		0.45	2.12	0.20	0.00	0.00	0.00	0.00	0.3	0.7	0.7	1.2	5.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0100_050.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	50.0 %
Edges (m)	2,498

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	4,402.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	1.0
5.0	7,797.0	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.8	4.0
10.0	14,491.0	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.2	9.0
25.0	32,508.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.3	1.3	5.0
50.0	63,781.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.2	1.9	4.0
75.0	94,950.0	0.92	0.71	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.3	38.0	120.0
90.0	112,459.0	0.44	0.43	0.01	0.00	0.00	0.00	0.00	0.3	0.6	0.2	49.1	120.0
95.0	118,787.0	0.19	0.18	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	4.5	17.0
Avg		0.37	0.22	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	12.2	35.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	1.0
Max		0.97	0.71	0.01	0.00	0.00	0.00	0.00	0.3	0.6	0.3	49.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	0.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0100_075.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	75.0 %
Edges (m)	3,654

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	5,968.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.8	3.0
5.0	10,848.0	0.28	0.28	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	3.3	35.0
10.0	20,302.0	1.64	0.85	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.9	7.0
25.0	48,222.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.7	7.0
50.0	91,973.0	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.5	0.3	2.3	10.0
75.0	136,242.0	0.95	0.95	0.15	0.00	0.00	0.00	0.00	0.3	0.5	0.3	120.7	120.0
90.0	162,561.0	0.80	0.72	0.15	0.00	0.00	0.00	0.00	0.3	0.6	0.3	120.2	120.0
95.0	172,309.0	0.30	0.30	0.06	0.00	0.00	0.00	0.00	0.3	0.6	0.2	17.3	52.0
Avg		0.60	0.39	0.04	0.00	0.00	0.00	0.00	0.2	0.4	0.2	33.4	44.2
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.7	3.0
Max		1.64	0.95	0.15	0.00	0.00	0.00	0.00	0.3	0.6	0.3	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	0.3
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0100_100.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	100.0 %
Edges (m)	4,950

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	7,664.0	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.3	7.0
5.0	13,971.0	0.84	0.00	0.08	0.00	0.00	0.00	0.00	0.1	0.2	0.2	5.4	75.0
10.0	26,671.0	1.00	0.95	0.00	0.00	0.00	0.00	0.00	0.1	0.3	0.2	3.0	22.0
25.0	66,482.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.5	2.0
50.0	125,701.0	0.33	0.14	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.2	8.1	76.0
75.0	184,449.0	0.71	0.64	0.03	0.00	0.01	0.00	0.00	0.3	0.6	0.4	120.7	120.0
90.0	219,642.0	0.31	0.25	0.01	0.00	0.00	0.00	0.00	0.4	0.6	0.4	120.6	120.0
95.0	233,085.0	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.3	0.7	0.2	43.2	120.0
Avg		0.73	0.26	0.01	0.00	0.00	0.00	0.00	0.2	0.4	0.2	37.9	67.8
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.5	2.0
Max		2.58	0.95	0.08	0.00	0.01	0.00	0.00	0.4	0.7	0.4	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	9
Running time in seconds for writing input file (t^{write})	0.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0200_005.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	5.0 %
Edges (m)	1,070

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	2,443.0	2.00	0.04	0.33	0.00	0.00	0.00	0.00	0.2	1.3	0.5	0.2	4.0
5.0	4,008.0	2.87	1.57	2.64	0.00	0.00	0.00	0.00	0.3	1.6	1.4	1.0	4.0
10.0	7,286.0	0.48	0.57	3.32	0.00	0.00	0.00	0.00	0.4	2.2	1.7	0.3	4.0
25.0	16,355.0	0.22	0.41	0.10	0.00	0.00	0.00	0.00	0.7	3.2	4.0	0.9	16.0
50.0	30,067.0	0.42	0.13	0.27	0.00	0.00	0.00	0.00	1.0	4.0	28.4	0.6	10.0
75.0	43,259.0	0.20	0.12	0.00	0.00	0.00	0.00	0.00	1.2	4.8	1.1	0.5	14.0
90.0	50,268.0	0.11	0.11	0.02	0.00	0.00	0.00	0.00	1.4	4.5	1.1	0.3	8.0
95.0	52,416.0	0.05	0.05	0.00	0.00	0.00	0.00	0.00	1.4	5.5	0.5	0.1	2.0
Avg		0.79	0.38	0.84	0.00	0.00	0.00	0.00	0.8	3.4	4.8	0.5	7.8
Min		0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	0.1	2.0
Max		2.87	1.57	3.32	0.00	0.00	0.00	0.00	1.4	5.5	28.4	1.0	16.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	28
Running time in seconds for writing input file (t^{write})	0.6
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0200_010.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	10.0 %
Edges (m)	1,988

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	3,573.0	0.20	0.20	0.88	0.00	0.00	0.00	0.00	0.2	1.4	0.7	0.3	3.0
5.0	6,884.0	0.09	0.20	0.25	0.00	0.00	0.00	0.00	0.3	1.7	0.6	0.4	8.0
10.0	12,555.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.5	2.5	1.4	0.5	5.0
25.0	28,491.0	0.04	0.00	0.52	0.00	0.00	0.00	0.00	0.8	3.5	4.0	2.0	11.0
50.0	54,468.0	0.19	0.00	0.10	0.00	0.00	0.00	0.00	1.1	4.4	2.1	0.5	7.0
75.0	79,406.0	0.08	0.17	0.00	0.00	0.00	0.00	0.00	1.3	4.4	0.9	0.4	11.0
90.0	92,906.0	0.25	0.00	0.00	0.00	0.00	0.00	0.00	1.5	5.2	0.7	0.2	3.0
95.0	96,603.0	0.19	0.19	0.02	0.00	0.00	0.00	0.00	1.5	4.6	0.6	0.5	42.0
Avg		0.13	0.10	0.22	0.00	0.00	0.00	0.00	0.9	3.5	1.4	0.6	11.2
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.4	0.6	0.2	3.0
Max		0.25	0.20	0.88	0.00	0.00	0.00	0.00	1.5	5.2	4.0	2.0	42.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	21
Running time in seconds for writing input file (t^{write})	0.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0200_025.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	25.0 %
Edges (m)	5,102

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	7,341.0	0.00	0.00	1.52	0.00	0.00	0.00		0.00	0.2	1.3	0.5	0.5	3.0
5.0	13,443.0	0.73	0.01	0.01	0.00	0.00	0.00		0.00	0.3	1.8	1.1	7.0	36.0
10.0	26,508.0	0.93	0.21	0.21	0.00	0.00	0.00		0.00	0.5	2.3	14.5	6.2	35.0
25.0	67,429.0	0.06	0.06	0.00	0.00	0.00	0.00		0.00	0.8	3.4	3.9	7.2	39.0
50.0	132,122.0	0.01	0.00	0.04	0.00	0.00	0.01		0.01	1.1	3.9	3.0	18.1	120.0
75.0	197,301.0	0.00	0.00	0.00	0.00	0.00	0.00		0.00	1.3	4.9	1.1	2.2	14.0
90.0	235,585.0	0.16	0.04	0.00	0.00	0.00	0.00		0.00	1.4	4.4	0.8	35.9	120.0
95.0	246,829.0	0.30	0.30	0.00	0.00	0.00	0.00		0.00	1.5	5.7	0.7	120.5	120.0
Avg		0.27	0.08	0.22	0.00	0.00	0.00		0.00	0.9	3.5	3.2	24.7	60.9
Min		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.2	1.3	0.5	0.5	3.0
Max		0.93	0.30	1.52	0.00	0.00	0.01		0.01	1.5	5.7	14.5	120.5	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	0.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0200_050.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	50.0 %
Edges (m)	9,766

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	13,867.0	2.60	0.43	0.00	0.00	0.00	0.00		0.00	0.2	1.3	0.5	6.3	79.0
5.0	26,253.0	0.72	0.34	0.18	0.00	0.00	0.00		0.00	0.3	1.8	0.7	7.1	48.0
10.0	51,516.0	1.58	0.43	0.00	0.00	0.00	0.20		0.00	0.5	2.3	1.9	11.1	120.0
25.0	127,256.0	0.12	0.12	0.00	0.00	0.00	0.00		0.00	0.7	3.2	1.5	18.2	93.0
50.0	249,897.0	0.11	0.01	0.03	0.00	0.00	0.03		0.01	1.0	3.9	1.3	26.6	120.0
75.0	372,686.0	0.21	0.21	0.00	0.00	0.00	0.00		0.00	1.3	4.6	1.3	102.2	120.0
90.0	443,402.0	0.27	0.27	0.00	0.00	0.00	0.00		0.00	1.4	4.4	1.0	120.8	120.0
95.0	465,325.0	0.26	0.22	0.00	0.00	0.02	0.00		0.00	1.4	5.5	1.1	120.6	120.0
Avg		0.73	0.25	0.03	0.00	0.00	0.03		0.00	0.9	3.4	1.2	51.6	102.5
Min		0.11	0.01	0.00	0.00	0.00	0.00		0.00	0.2	1.3	0.5	6.3	48.0
Max		2.60	0.43	0.18	0.00	0.02	0.20		0.01	1.4	5.5	1.9	120.8	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	10
Running time in seconds for writing input file (t^{write})	0.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0200_075.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	75.0 %
Edges (m)	15,060

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	20,251.0	2.47	0.00	0.00	0.00	0.00	0.00		0.00	0.2	1.3	0.6	16.4	118.0
5.0	39,935.0	0.29	0.00	0.23	0.00	0.00	0.00		0.00	0.3	1.8	0.7	9.9	63.0
10.0	78,985.0	0.06	0.04	0.00	0.00	0.00	0.00		0.00	0.5	2.3	0.7	15.4	117.0
25.0	196,560.0	0.43	0.09	0.00	0.00	0.00	0.00		0.00	0.7	3.2	0.9	46.6	120.0
50.0	386,053.0	0.30	0.11	0.00	0.00	0.00	0.00		0.00	1.0	3.9	1.4	119.7	120.0
75.0	573,685.0	0.25	0.22	0.00	0.00	0.02	0.00		0.00	1.3	4.6	1.5	120.5	120.0
90.0	683,442.0	0.27	0.22	0.00	0.00	0.04	0.00		0.00	1.3	4.4	2.9	120.1	120.0
95.0	718,799.0	0.17	0.17	0.00	0.00	0.02	0.00		0.00	1.7	5.4	1.8	120.1	120.0
Avg		0.53	0.11	0.03	0.00	0.01	0.00		0.00	0.9	3.4	1.3	71.1	112.2
Min		0.06	0.00	0.00	0.00	0.00	0.00		0.00	0.2	1.3	0.6	9.9	63.0
Max		2.47	0.22	0.23	0.00	0.04	0.00		0.00	1.7	5.4	2.9	120.5	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	8
Running time in seconds for writing input file (t^{write})	0.8
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0200_100.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	100.0 %
Edges (m)	19,900

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	25,697.0	2.22	0.73	0.01	0.00	0.00	0.00		0.00	0.2	1.4	0.6	47.3	120.0
5.0	50,965.0	1.18	0.81	0.07	0.00	0.00	0.00		0.00	0.3	1.8	0.6	62.6	120.0
10.0	101,990.0	0.29	0.00	0.00	0.00	0.00	2.03		0.00	0.5	2.5	0.6	40.2	120.0
25.0	255,580.0	0.52	0.29	0.02	0.00	0.00	0.00		0.00	0.8	3.2	0.8	121.8	120.0
50.0	505,384.0	0.49	0.38	0.00	0.00	0.03	2.23		0.00	1.1	4.2	1.7	120.1	120.0
75.0	750,693.0	0.38	0.33	0.00	0.00	0.12	0.00		0.00	1.3	4.3	34.7	120.1	120.0
90.0	895,013.0	0.17	0.17	0.00	0.00	0.10	0.00		0.00	1.4	5.0	101.7	120.1	120.0
95.0	942,175.0	0.15	0.13	0.01	0.00	0.06	0.00		0.00	1.5	4.6	13.4	123.2	120.0
Avg		0.68	0.35	0.01	0.00	0.04	0.53		0.00	0.9	3.4	19.2	94.4	120.0
Min		0.15	0.00	0.00	0.00	0.00	0.00		0.00	0.2	1.4	0.6	40.2	120.0
Max		2.22	0.81	0.07	0.00	0.12	2.23		0.00	1.5	5.0	101.7	123.2	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	4
Running time in seconds for writing input file (t^{write})	0.9
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0300_005.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	5.0 %
Edges (m)	2,201

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	3,836.0	0.34	1.80	6.76	0.00	0.00	0.00		0.00	0.5	5.7	2.3	0.4	9.0
5.0	7,396.0	0.35	1.48	2.21	0.00	0.00	0.00		0.00	0.8	8.0	2.7	0.4	8.0
10.0	14,088.0	0.16	0.54	0.41	0.00	0.00	0.00		0.00	1.1	10.5	3.9	0.4	3.0
25.0	32,567.0	0.07	0.07	0.21	0.00	0.00	0.00		0.00	1.8	14.0	10.9	0.5	14.0
50.0	61,016.0	0.20	0.11	0.12	—	0.00	0.00		0.00	2.5	18.1	120.0	1.0	14.0
75.0	87,934.0	0.04	0.06	0.02	0.00	0.00	0.00		0.00	3.1	16.4	11.4	0.3	20.0
90.0	102,490.0	0.00	0.00	0.00	0.00	0.00	0.00		0.00	4.0	18.0	2.7	0.1	4.0
95.0	106,582.0	0.26	0.09	0.00	0.00	0.00	0.00		0.00	3.7	15.5	1.4	0.2	7.0
Avg		0.18	0.52	1.22	—	0.00	0.00		0.00	2.2	13.3	19.4	0.4	9.9
Min		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.5	5.7	1.4	0.1	3.0
Max		0.35	1.80	6.76	—	0.00	0.00		0.00	4.0	18.1	120.0	1.0	20.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	30
Running time in seconds for writing input file (t^{write})	1.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0300_010.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	10.0 %
Edges (m)	4,528

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	7,186.0	0.87	0.07	1.80	0.00	0.00	0.00		0.00	0.5	6.3	2.5	0.7	7.0
5.0	13,916.0	0.77	0.14	1.69	0.00	0.00	0.00		0.00	0.8	8.0	3.1	0.5	9.0
10.0	26,913.0	0.20	0.00	0.35	0.00	0.00	0.00		0.00	1.2	11.3	5.9	1.1	22.0
25.0	63,706.0	0.22	0.11	0.09	0.00	0.00	0.00		0.01	1.9	14.1	25.7	5.0	58.0
50.0	123,347.0	0.51	0.00	0.02	0.00	0.00	0.00		0.01	2.7	18.6	38.8	5.1	120.0
75.0	180,546.0	0.09	0.02	0.00	0.00	0.00	0.00		0.00	3.2	16.2	3.0	0.9	58.0
90.0	211,476.0	0.06	0.02	0.00	0.00	0.00	0.00		0.00	3.5	18.5	2.9	1.5	99.0
95.0	221,043.0	0.00	0.00	0.00	0.00	0.00	0.00		0.00	3.6	15.5	1.5	0.2	1.0
Avg		0.34	0.04	0.49	0.00	0.00	0.00		0.00	2.2	13.6	10.4	1.9	46.8
Min		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.5	6.3	1.5	0.2	1.0
Max		0.87	0.14	1.80	0.00	0.00	0.00		0.01	3.6	18.6	38.8	5.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	20
Running time in seconds for writing input file (t^{write})	1.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0300_025.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	25.0 %
Edges (m)	11,187

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	16,668.0	1.71	0.00	0.35	0.00	0.00	0.00		0.01	0.6	6.7	2.5	4.7	20.0
5.0	32,139.0	0.00	0.00	0.27	0.00	0.00	0.00		0.00	0.9	8.3	2.5	8.2	38.0
10.0	61,174.0	0.02	0.21	0.00	0.00	0.00	0.04		0.01	1.2	11.2	48.9	29.6	120.0
25.0	151,655.0	0.01	0.01	0.01	0.00	0.00	0.01		0.01	2.0	14.0	11.7	28.2	120.0
50.0	292,807.0	0.04	0.04	0.00	0.00	0.00	0.05		0.01	2.7	18.7	4.4	20.6	120.0
75.0	430,482.0	0.05	0.02	0.00	0.00	0.00	0.29		0.00	3.3	15.8	3.0	84.3	120.0
90.0	510,231.0	0.08	0.03	0.00	0.00	0.00	0.00		0.00	3.6	17.7	2.7	119.4	120.0
95.0	536,421.0	0.10	0.07	0.00	0.00	0.00	0.00		0.00	3.6	15.3	1.8	4.3	120.0
Avg		0.25	0.05	0.08	0.00	0.00	0.05		0.00	2.2	13.5	9.7	37.4	97.2
Min		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.6	6.7	1.8	4.3	20.0
Max		1.71	0.21	0.35	0.00	0.00	0.29		0.01	3.6	18.7	48.9	119.4	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	1.1
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0300_050.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	50.0 %
Edges (m)	22,322

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	33,849.0	0.53	0.44	0.00	0.00	0.00	0.00		0.00	0.6	6.3	1.5	3.8	55.0
5.0	63,941.0	1.03	0.13	0.00	0.00	0.00	0.00		0.00	0.8	8.3	1.4	26.1	120.0
10.0	120,417.0	0.06	0.06	0.06	0.00	0.00	0.61		0.00	1.2	10.6	4.3	120.8	120.0
25.0	294,808.0	0.55	0.29	0.00	0.00	0.00	1.08		0.00	2.0	14.2	6.5	122.0	120.0
50.0	577,776.0	0.22	0.05	0.02	0.00	0.00	0.93		0.00	2.7	15.8	6.4	120.4	120.0
75.0	855,682.0	0.40	0.18	0.00	0.00	0.00	0.84		0.01	3.2	17.1	4.1	120.2	120.0
90.0	1,018,454.0	0.18	0.09	0.00	0.00	0.01	0.00		0.00	3.5	16.0	2.4	120.6	120.0
95.0	1,072,070.0	0.19	0.19	0.00	0.00	0.00	0.00		0.00	3.6	16.7	1.7	70.1	120.0
Avg		0.40	0.18	0.01	0.00	0.00	0.43		0.00	2.2	13.1	3.5	88.0	111.9
Min		0.06	0.05	0.00	0.00	0.00	0.00		0.00	0.6	6.3	1.4	3.8	55.0
Max		1.03	0.44	0.06	0.00	0.01	1.08		0.01	3.6	17.1	6.5	122.0	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	1.1
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0300_075.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	75.0 %
Edges (m)	33,514

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	47,288.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.4	1.3	8.2	78.0
5.0	91,363.0	0.40	0.00	0.00	0.00	0.01	0.00	0.00	0.9	8.8	1.6	120.3	120.0
10.0	176,858.0	1.43	0.81	0.00	0.00	0.00	1.36	0.01	1.2	10.7	2.5	120.3	120.0
25.0	440,392.0	0.72	0.38	0.00	0.00	0.00	1.85	0.01	2.0	14.0	2.9	121.9	120.0
50.0	855,143.0	0.24	0.11	0.00	0.00	0.00	2.56	0.01	2.7	18.3	8.1	120.3	120.0
75.0	1,269,346.0	0.03	0.00	0.00	0.00	0.00	1.99	0.01	3.2	15.8	3.2	63.9	120.0
90.0	1,508,487.0	0.21	0.19	0.00	—	0.14	0.53	0.00	3.4	18.2	120.0	120.1	120.0
95.0	1,591,585.0	0.06	0.05	0.00	0.00	0.02	0.00	0.00	3.5	15.4	2.6	122.3	120.0
Avg		0.39	0.19	0.00	—	0.02	1.04	0.00	2.2	13.5	17.8	99.6	114.8
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.4	1.3	8.2	78.0
Max		1.43	0.81	0.00	—	0.14	2.56	0.01	3.5	18.3	120.0	122.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	8
Running time in seconds for writing input file (t^{write})	1.2
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0300_100.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	100.0 %
Edges (m)	44,850

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	65,033.0	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.6	6.4	1.4	11.9	89.0
5.0	124,204.0	0.85	0.58	0.00	0.00	0.14	0.00	0.00	0.9	8.8	1.6	120.6	120.0
10.0	241,306.0	1.47	1.34	0.00	0.00	0.00	0.90	0.01	1.2	10.7	2.1	121.0	120.0
25.0	597,277.0	0.04	0.00	0.00	0.00	0.00	2.03	0.00	2.0	15.0	1.8	33.3	120.0
50.0	1,151,426.0	0.44	0.33	0.00	—	0.30	1.46	0.01	2.7	18.6	120.0	120.0	120.0
75.0	1,706,068.0	0.11	0.04	0.00	0.00	0.02	1.76	0.00	3.2	15.7	2.1	120.2	120.0
90.0	2,022,601.0	0.24	0.21	0.00	—	0.15	0.63	0.00	3.5	18.6	120.0	120.1	120.0
95.0	2,135,230.0	0.11	0.11	0.00	0.00	0.05	0.00	0.00	3.6	15.4	8.4	120.1	120.0
Avg		0.41	0.33	0.00	—	0.08	0.85	0.00	2.2	13.7	32.2	95.9	116.1
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.4	1.4	11.9	89.0
Max		1.47	1.34	0.00	—	0.30	2.03	0.01	3.6	18.6	120.0	121.0	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	1.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0500_005.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	5.0 %
Edges (m)	6,096

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly		QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	9,486.0	2.03	1.25	0.78	—	0.00	0.00		0.01	1.6	43.5	120.0	1.2	30.0
5.0	17,823.0	0.32	0.34	0.41	—	0.00	0.00		0.01	2.4	54.8	120.0	2.4	26.0
10.0	34,386.0	0.41	0.00	0.55	—	0.00	0.00		0.01	4.2	73.6	120.0	4.0	57.0
25.0	82,600.0	0.23	0.12	0.06	—	0.00	0.00		0.01	6.9	112.0	120.0	13.1	120.0
50.0	161,341.0	0.23	0.05	0.14	—	0.00	0.00		0.01	9.9	116.4	120.0	4.0	86.0
75.0	239,016.0	0.02	0.04	0.02	—	0.00	0.00		0.00	12.1	108.0	120.0	0.7	22.0
90.0	281,790.0	0.02	0.00	0.00	—	0.00	0.00		0.00	13.2	104.5	120.0	1.9	120.0
95.0	294,514.0	0.12	0.04	0.00	—	0.00	0.00		0.00	13.8	89.7	120.0	1.4	120.0
Avg		0.42	0.23	0.24	—	0.00	0.00		0.01	8.0	87.8	120.0	3.6	72.6
Min		0.02	0.00	0.00	—	0.00	0.00		0.00	1.6	43.5	120.0	0.7	22.0
Max		2.03	1.25	0.78	—	0.00	0.00		0.01	13.8	116.4	120.0	13.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	22
Running time in seconds for writing input file (t^{write})	1.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0500_010.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	10.0 %
Edges (m)	12,209

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	16,261.0	1.09	0.48	0.99	—	0.00	0.00	0.01	1.7	45.1	120.0	2.7	55.0
5.0	32,331.0	0.00	0.20	0.46	—	0.00	0.00	0.00	2.5	56.4	120.0	7.2	120.0
10.0	63,785.0	0.15	0.02	0.05	—	0.00	0.00	0.01	3.9	79.2	120.0	16.0	120.0
25.0	158,584.0	0.17	0.03	0.06	—	0.00	0.11	0.01	6.3	103.5	120.0	20.5	120.0
50.0	315,622.0	0.01	0.01	0.03	—	0.00	0.13	0.01	8.8	105.5	120.0	23.9	120.0
75.0	472,153.0	0.17	0.08	0.01	—	0.00	0.00	0.01	10.8	106.0	120.0	6.5	120.0
90.0	561,043.0	0.27	0.05	0.01	—	0.00	0.00	0.00	11.8	102.4	120.0	4.6	58.0
95.0	588,857.0	0.14	0.10	0.00	—	0.00	0.06	0.00	13.2	87.9	120.0	10.2	120.0
Avg		0.25	0.12	0.20	—	0.00	0.04	0.01	7.4	85.8	120.0	11.4	104.1
Min		0.00	0.01	0.00	—	0.00	0.00	0.00	1.7	45.1	120.0	2.7	55.0
Max		1.09	0.48	0.99	—	0.00	0.13	0.01	13.2	106.0	120.0	23.9	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	10
Running time in seconds for writing input file (t^{write})	2.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0500_025.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	25.0 %
Edges (m)	31,106

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	39,184.0	0.88	0.05	0.06	—	0.00	0.00	0.01	1.7	43.4	120.0	80.9	120.0
5.0	78,151.0	0.29	0.14	0.00	—	0.00	0.05	0.01	2.5	58.5	120.0	120.1	120.0
10.0	155,455.0	0.61	0.03	0.00	—	0.23	0.10	0.01	3.6	75.3	120.0	123.6	120.0
25.0	398,633.0	0.00	0.00	0.04	—	0.21	0.54	0.01	5.8	103.3	120.0	120.2	120.0
50.0	793,730.0	0.02	0.00	0.00	—	0.00	1.22	0.01	8.3	104.8	120.0	120.2	120.0
75.0	1,186,711.0	0.22	0.17	0.00	—	0.00	1.18	0.01	9.8	111.8	120.0	120.1	120.0
90.0	1,417,342.0	0.22	0.00	0.00	—	0.00	0.47	0.00	10.5	96.4	120.0	120.7	120.0
95.0	1,491,603.0	0.04	0.01	0.00	—	0.00	0.13	0.00	10.7	94.5	120.0	7.7	120.0
Avg		0.28	0.05	0.01	—	0.06	0.46	0.01	6.6	86.0	120.0	101.7	120.0
Min		0.00	0.00	0.00	—	0.00	0.00	0.00	1.7	43.4	120.0	7.7	120.0
Max		0.88	0.17	0.06	—	0.23	1.22	0.01	10.7	111.8	120.0	123.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	1.9
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0500_050.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	50.0 %
Edges (m)	62,245

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	77,779.0	0.23	0.11	0.00	—	0.00	0.72	0.01	1.8	46.0	120.0	120.1	120.0
5.0	156,364.0	0.36	0.10	0.00	—	2.14	0.97	0.01	2.6	57.5	120.0	120.2	120.0
10.0	311,998.0	0.55	0.30	0.00	—	0.00	2.07	0.01	3.8	79.9	120.0	120.1	120.0
25.0	786,402.0	0.09	0.00	0.00	—	0.34	1.50	0.01	6.2	108.3	120.0	120.1	120.0
50.0	1,573,273.0	0.01	0.00	0.00	—	0.53	1.85	0.01	8.5	104.8	120.0	120.1	120.0
75.0	2,356,872.0	0.08	0.03	0.00	—	0.54	1.31	0.01	10.3	105.5	120.0	120.2	120.0
90.0	2,817,772.0	0.11	0.11	0.00	—	0.09	0.84	0.01	11.4	102.7	120.0	120.1	120.0
95.0	2,969,150.0	0.04	0.04	0.00	—	0.05	0.27	0.00	11.5	89.5	120.0	120.1	120.0
Avg		0.18	0.09	0.00	—	0.46	1.19	0.01	7.0	86.8	120.0	120.1	120.0
Min		0.01	0.00	0.00	—	0.00	0.27	0.00	1.8	46.0	120.0	120.1	120.0
Max		0.55	0.30	0.00	—	2.14	2.07	0.01	11.5	108.3	120.0	120.2	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	2.2
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0500_075.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	75.0 %
Edges (m)	93,766

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	116,084.0	0.59	0.23	0.00	—	1,695.58	1.57	0.01	1.8	43.5	120.0	120.0	120.0
5.0	230,759.0	0.81	0.46	0.00	—	941.90	2.54	0.01	2.7	61.3	120.0	120.1	120.0
10.0	463,541.0	0.00	0.00	0.00	—	595.38	3.19	0.01	3.9	75.2	120.0	120.1	120.0
25.0	1,176,518.0	0.27	0.16	0.00	—	297.48	2.22	0.01	6.2	103.6	120.0	120.2	120.0
50.0	2,362,127.0	0.07	0.03	0.00	—	96.56	1.86	0.01	8.8	114.1	120.0	120.1	120.0
75.0	3,550,258.0	0.18	0.16	0.00	—	32.09	2.02	0.01	10.6	104.4	120.0	120.1	120.0
90.0	4,252,886.0	0.09	0.08	0.00	—	6.73	0.94	0.01	11.3	96.1	120.0	120.1	120.0
95.0	4,486,520.0	0.06	0.05	0.00	—	4.39	0.29	0.00	11.4	88.0	120.0	120.1	120.0
Avg		0.26	0.15	0.00	—	458.76	1.83	0.01	7.1	85.8	120.0	120.1	120.0
Min		0.00	0.00	0.00	—	4.39	0.29	0.00	1.8	43.5	120.0	120.0	120.0
Max		0.81	0.46	0.00	—	1,695.58	3.19	0.01	11.4	114.1	120.0	120.2	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	2.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_0500_100.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	100.0 %
Edges (m)	124,750

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	150,817.0	0.78	0.39	0.00	—	2,721.65	2.07	0.01	1.9	43.7	120.0	120.1	120.0
5.0	300,321.0	0.41	0.31	0.00	—	1,282.25	3.03	0.01	2.7	57.4	120.0	120.1	120.0
10.0	610,941.0	0.10	0.02	0.00	—	619.77	4.14	0.01	3.9	74.9	120.0	120.1	120.0
25.0	1,554,549.0	0.24	0.17	0.00	—	264.18	4.08	0.01	6.3	103.4	120.0	120.1	120.0
50.0	3,126,720.0	0.14	0.09	0.00	—	98.41	3.35	0.01	8.7	104.1	120.0	120.1	120.0
75.0	4,711,040.0	0.12	0.10	0.00	—	27.96	2.87	0.01	10.5	107.8	120.0	120.1	120.0
90.0	5,642,856.0	0.10	0.08	0.00	—	8.60	1.10	0.01	11.3	95.9	120.0	120.1	120.0
95.0	5,953,885.0	0.07	0.06	0.00	—	5.21	0.36	0.00	11.4	87.8	120.0	120.1	120.0
Avg		0.24	0.15	0.00	—	628.50	2.62	0.01	7.1	84.4	120.0	120.1	120.0
Min		0.07	0.02	0.00	—	5.21	0.36	0.00	1.9	43.7	120.0	120.1	120.0
Max		0.78	0.39	0.00	—	2,721.65	4.14	0.01	11.4	107.8	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	2
Running time in seconds for writing input file (t^{write})	2.7
Running time in seconds for executing parametric cut procedure (t^{cut})	0.4
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_1000_005.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	5.0 %
Edges (m)	25,021

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly	
2.5	33,256.0	0.01	0.01	—	—	0.00	0.10	0.01	10.7	120.0	120.0	43.6	120.0	
5.0	65,442.0	0.27	0.18	—	—	0.00	0.08	0.01	16.4	120.0	120.0	53.7	120.0	
10.0	129,928.0	0.10	0.11	—	—	0.00	0.05	0.02	23.6	120.0	120.0	68.7	120.0	
25.0	325,211.0	0.07	0.02	—	—	0.00	0.15	0.03	38.3	120.0	120.0	55.7	120.0	
50.0	649,512.0	0.06	0.03	—	—	0.00	0.27	0.03	53.9	120.0	120.0	12.1	120.0	
75.0	965,463.0	0.09	0.00	—	—	0.00	0.24	0.02	62.5	120.0	120.0	7.4	120.0	
90.0	1,149,675.0	0.02	0.00	—	—	0.00	0.18	0.01	64.8	120.0	120.0	12.9	120.0	
95.0	1,207,594.0	0.03	0.00	—	—	0.00	0.04	0.01	70.0	120.0	120.0	5.3	120.0	
Avg		0.08	0.04	—	—	0.00	0.14	0.02	42.5	120.0	120.0	32.4	120.0	
Min		0.01	0.00	—	—	0.00	0.04	0.01	10.7	120.0	120.0	5.3	120.0	
Max		0.27	0.18	—	—	0.00	0.27	0.03	70.0	120.0	120.0	68.7	120.0	

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	16
Running time in seconds for writing input file (t^{write})	3.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.4
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_1000_010.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	10.0 %
Edges (m)	50,076

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly	
2.5	63,961.0	0.10	0.03	—	—	0.00	0.07	0.03	10.2	120.0	120.0	104.8	120.0	
5.0	129,640.0	0.15	0.05	—	—	0.00	0.17	0.01	15.4	120.0	120.0	84.0	120.0	
10.0	260,427.0	0.05	0.10	—	—	0.00	0.35	0.01	22.0	120.0	120.0	73.0	120.0	
25.0	646,350.0	0.04	0.01	—	—	0.00	0.62	0.03	36.4	120.0	120.0	97.6	120.0	
50.0	1,283,405.0	0.02	0.00	—	—	0.00	1.03	0.03	51.1	120.0	120.0	54.2	120.0	
75.0	1,916,478.0	0.06	0.03	—	—	0.00	0.78	0.02	60.2	120.0	120.0	122.2	120.0	
90.0	2,288,573.0	0.00	0.00	—	—	0.00	0.37	0.01	64.2	120.0	120.0	12.9	120.0	
95.0	2,408,762.0	0.06	0.06	—	—	0.00	0.19	0.01	66.7	120.0	120.0	95.3	120.0	
Avg		0.06	0.04	—	—	0.00	0.45	0.02	40.8	120.0	120.0	80.5	120.0	
Min		0.00	0.00	—	—	0.00	0.07	0.01	10.2	120.0	120.0	12.9	120.0	
Max		0.15	0.10	—	—	0.00	1.03	0.03	66.7	120.0	120.0	122.2	120.0	

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	9
Running time in seconds for writing input file (t^{write})	3.4
Running time in seconds for executing parametric cut procedure (t^{cut})	0.5
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_1000_025.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	25.0 %
Edges (m)	124,511

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	150,039.0	0.01	0.00	—	—	3,023.21	0.28	0.03	10.9	120.0	120.0	120.1	120.0
5.0	306,196.0	0.00	0.02	—	—	1,708.49	0.88	0.01	16.0	120.0	120.0	120.1	120.0
10.0	620,091.0	0.16	0.00	—	—	867.03	1.22	0.02	23.2	120.0	120.0	120.1	120.0
25.0	1,563,242.0	0.10	0.00	—	—	282.97	1.45	0.03	37.0	120.0	120.0	120.1	120.0
50.0	3,125,767.0	0.00	0.00	—	—	99.85	1.72	0.03	51.5	120.0	120.0	120.1	120.0
75.0	4,720,097.0	0.14	0.00	—	—	31.59	1.46	0.02	61.6	120.0	120.0	120.1	120.0
90.0	5,653,352.0	0.01	0.00	—	—	10.86	0.58	0.01	64.8	120.0	120.0	120.1	120.0
95.0	5,966,566.0	0.03	0.00	—	—	0.02	0.20	0.01	67.0	120.0	120.0	120.1	120.0
Avg		0.06	0.00	—	—	753.00	0.97	0.02	41.5	120.0	120.0	120.1	120.0
Min		0.00	0.00	—	—	0.02	0.20	0.01	10.9	120.0	120.0	120.1	120.0
Max		0.16	0.02	—	—	3,023.21	1.72	0.03	67.0	120.0	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	4.1
Running time in seconds for executing parametric cut procedure (t^{cut})	0.5
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_1000_050.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	50.0 %
Edges (m)	249,725

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	297,495.0	0.15	0.00	—	—	1,624.71	2.58	0.03	11.4	120.0	120.0	120.3	120.0
5.0	602,050.0	0.13	0.00	—	—	1,057.50	1.82	0.01	16.9	120.0	120.0	120.3	120.0
10.0	1,225,298.0	0.09	0.00	—	—	629.54	2.71	0.02	24.7	120.0	120.0	120.5	120.0
25.0	3,124,126.0	0.36	0.00	—	—	256.23	2.73	0.03	39.9	120.0	120.0	120.3	120.0
50.0	6,260,333.0	0.03	0.00	—	—	84.98	2.87	0.03	55.0	120.0	120.0	120.3	120.0
75.0	9,404,648.0	0.00	0.00	—	—	29.26	2.20	0.02	65.6	120.0	120.0	120.3	120.0
90.0	11,285,276.0	0.02	0.00	—	—	7.86	0.67	0.01	69.6	120.0	120.0	120.3	120.0
95.0	11,913,581.0	0.01	0.01	—	—	0.00	0.27	0.01	70.0	120.0	120.0	120.4	120.0
Avg		0.10	0.00	—	—	461.26	1.98	0.02	44.1	120.0	120.0	120.3	120.0
Min		0.00	0.00	—	—	0.00	0.27	0.01	11.4	120.0	120.0	120.3	120.0
Max		0.36	0.01	—	—	1,624.71	2.87	0.03	70.0	120.0	120.0	120.5	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	5.5
Running time in seconds for executing parametric cut procedure (t^{cut})	0.7
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_1000_075.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	75.0 %
Edges (m)	374,743

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	438,976.0	0.29	0.00	—	—	2,336.45	3.21	0.03	10.9	120.0	120.0	120.4	120.0
5.0	902,260.0	0.59	0.00	—	—	1,419.93	2.12	0.01	16.0	120.0	120.0	120.3	120.0
10.0	1,848,201.0	0.55	0.00	—	—	726.49	4.16	0.02	23.7	120.0	120.0	120.4	120.0
25.0	4,709,201.0	0.03	0.00	—	—	288.67	3.71	0.03	37.1	120.0	120.0	120.5	120.0
50.0	9,396,612.0	0.02	0.00	—	—	113.83	3.37	0.03	51.4	120.0	120.0	120.4	120.0
75.0	14,141,901.0	0.02	0.00	—	—	40.58	3.07	0.02	60.7	120.0	120.0	120.4	120.0
90.0	16,968,778.0	0.00	0.00	—	—	12.14	1.12	0.01	64.9	120.0	120.0	120.6	120.0
95.0	17,877,409.0	0.00	0.00	—	—	6.06	0.44	0.01	66.2	120.0	120.0	120.4	120.0
Avg		0.19	0.00	—	—	618.02	2.65	0.02	41.4	120.0	120.0	120.4	120.0
Min		0.00	0.00	—	—	6.06	0.44	0.01	10.9	120.0	120.0	120.3	120.0
Max		0.59	0.00	—	—	2,336.45	4.16	0.03	66.2	120.0	120.0	120.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	6.0
Running time in seconds for executing parametric cut procedure (t^{cut})	0.8
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_1000_100.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	100.0 %
Edges (m)	499,500

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	594,758.0	0.00	0.00	—	—	1,997.47	4.24	0.03	11.5	120.0	120.0	120.6	121.0
5.0	1,201,257.0	0.07	0.00	—	—	1,338.67	4.56	0.01	16.7	120.0	120.0	120.6	120.0
10.0	2,447,454.0	0.02	0.00	—	—	843.21	4.29	0.02	24.5	120.0	120.0	125.8	121.0
25.0	6,265,032.0	0.03	0.00	—	—	297.30	4.71	0.03	39.9	120.0	120.0	121.1	120.0
50.0	12,502,438.0	0.02	0.00	—	—	99.21	4.47	0.03	55.1	120.0	120.0	120.7	121.0
75.0	18,821,953.0	0.01	0.00	—	—	35.87	3.16	0.02	65.3	120.0	120.0	120.7	121.0
90.0	22,596,046.0	0.00	0.00	—	—	13.23	1.29	0.01	69.4	120.0	120.0	120.6	121.0
95.0	23,803,371.0	0.00	0.00	—	—	5.58	0.32	0.01	71.0	120.0	120.0	120.6	120.0
Avg		0.02	0.00	—	—	578.82	3.38	0.02	44.2	120.0	120.0	121.3	120.6
Min		0.00	0.00	—	—	5.58	0.32	0.01	11.5	120.0	120.0	120.6	120.0
Max		0.07	0.00	—	—	1,997.47	4.71	0.03	71.0	120.0	120.0	125.8	121.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	2
Running time in seconds for writing input file (t^{write})	7.6
Running time in seconds for executing parametric cut procedure (t^{cut})	1.0
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_2000_005.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	5.0 %
Edges (m)	99,945

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	127,881.0	0.00	0.00	—	—	2,254.65	0.49	0.05	73.6	120.0	120.0	120.1	120.0
5.0	256,231.0	0.06	0.00	—	—	3.51	0.32	0.03	108.6	120.0	120.0	120.3	120.0
10.0	514,445.0	0.02	0.00	—	—	48.14	0.41	0.06	120.0	120.0	120.0	120.1	120.0
25.0	1,271,608.0	0.03	0.00	—	—	67.52	0.33	0.11	120.0	120.0	120.0	120.3	120.0
50.0	2,542,113.0	0.00	0.00	—	—	44.09	0.66	0.12	120.0	120.0	120.0	120.1	120.0
75.0	3,799,882.0	0.00	0.00	—	—	0.75	0.81	0.10	120.2	120.0	120.0	120.2	120.0
90.0	4,553,558.0	0.02	0.00	—	—	0.02	0.46	0.07	120.0	120.0	120.0	120.1	120.0
95.0	4,796,423.0	0.00	0.00	—	—	0.00	0.15	0.07	120.0	120.0	120.0	120.1	120.0
Avg		0.02	0.00	—	—	302.34	0.45	0.08	112.8	120.0	120.0	120.1	120.0
Min		0.00	0.00	—	—	0.00	0.15	0.03	73.6	120.0	120.0	120.1	120.0
Max		0.06	0.00	—	—	2,254.65	0.81	0.12	120.2	120.0	120.0	120.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	7.6
Running time in seconds for executing parametric cut procedure (t^{cut})	0.9
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_2000_010.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	10.0 %
Edges (m)	199,950

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	252,269.0	0.08	0.00	—	—	2,724.33	0.46	0.13	72.0	120.0	120.0	120.7	120.0
5.0	505,947.0	0.17	0.00	—	—	1,636.08	0.96	0.03	105.0	120.0	120.0	120.6	120.0
10.0	1,013,728.0	0.04	0.00	—	—	802.13	1.00	0.06	120.0	120.0	120.0	120.4	120.0
25.0	2,525,011.0	0.03	0.00	—	—	312.60	1.33	0.11	120.1	120.0	120.0	120.4	120.0
50.0	5,054,093.0	0.09	0.00	—	—	93.78	1.71	0.12	120.1	120.0	120.0	120.4	120.0
75.0	7,584,175.0	0.06	0.00	—	—	0.01	1.20	0.10	120.2	120.0	120.0	120.3	120.0
90.0	9,086,125.0	0.01	0.00	—	—	0.02	0.50	0.08	120.0	120.0	120.0	120.3	120.0
95.0	9,570,809.0	0.00	0.00	—	—	0.10	0.22	0.07	120.2	120.0	120.0	120.7	120.0
Avg		0.06	0.00	—	—	696.13	0.92	0.09	112.2	120.0	120.0	120.5	120.0
Min		0.00	0.00	—	—	0.01	0.22	0.03	72.0	120.0	120.0	120.3	120.0
Max		0.17	0.00	—	—	2,724.33	1.71	0.13	120.2	120.0	120.0	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	8.0
Running time in seconds for executing parametric cut procedure (t^{cut})	1.0
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_2000_025.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	25.0 %
Edges (m)	499,746

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	613,798.0	0.28	0.00	—	—	3,416.46	2.45	0.13	72.9	120.0	120.0	124.2	121.0
5.0	1,229,629.0	0.13	0.00	—	—	1,752.46	2.63	0.03	106.3	120.0	120.0	124.8	121.0
10.0	2,489,364.0	0.00	0.00	—	—	920.82	2.99	0.06	120.0	120.0	120.0	120.4	121.0
25.0	6,241,975.0	0.00	0.00	—	—	296.32	4.08	0.11	120.1	120.0	120.0	120.6	121.0
50.0	12,530,837.0	0.12	0.00	—	—	95.74	3.66	0.12	120.0	120.0	120.0	121.0	121.0
75.0	18,861,358.0	0.01	0.00	—	—	36.14	2.32	0.10	120.1	120.0	120.0	120.5	121.0
90.0	22,633,471.0	0.01	0.00	—	—	0.00	0.87	0.08	120.2	120.0	120.0	120.6	121.0
95.0	23,875,666.0	0.00	0.00	—	—	0.08	0.39	0.07	120.2	120.0	120.0	120.5	121.0
Avg		0.07	0.00	—	—	814.75	2.42	0.09	112.5	120.0	120.0	121.6	121.0
Min		0.00	0.00	—	—	0.00	0.39	0.03	72.9	120.0	120.0	120.4	121.0
Max		0.28	0.00	—	—	3,416.46	4.08	0.13	120.2	120.0	120.0	124.8	121.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	10.6
Running time in seconds for executing parametric cut procedure (t^{cut})	1.3
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_2000_050.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	50.0 %
Edges (m)	999,153

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	1,208,365.0	0.18	0.00	—	—	3,460.72	4.07	0.14	73.4	120.0	120.0	120.7	122.0
5.0	2,453,162.0	0.00	0.00	—	—	1,734.03	4.26	0.03	109.4	120.0	120.0	124.5	122.0
10.0	4,966,484.0	0.04	0.00	—	—	807.95	5.44	0.06	120.0	120.0	120.0	120.7	122.0
25.0	12,451,195.0	0.02	0.00	—	—	288.17	6.39	0.11	120.1	120.0	120.0	120.6	124.0
50.0	25,021,352.0	0.00	0.00	—	—	98.72	6.24	0.12	120.1	120.0	120.0	120.8	122.0
75.0	37,642,485.0	0.00	0.00	—	—	33.35	2.95	0.10	120.1	120.0	120.0	120.7	122.0
90.0	45,225,347.0	0.01	0.00	—	—	9.89	1.05	0.08	120.2	120.0	120.0	123.0	122.0
95.0	47,734,089.0	0.00	0.00	—	—	4.36	0.47	0.08	120.1	120.0	120.0	120.7	122.0
Avg		0.03	0.00	—	—	804.65	3.86	0.09	112.9	120.0	120.0	121.5	122.2
Min		0.00	0.00	—	—	4.36	0.47	0.03	73.4	120.0	120.0	120.6	122.0
Max		0.18	0.00	—	—	3,460.72	6.39	0.14	120.2	120.0	120.0	124.5	124.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	14.6
Running time in seconds for executing parametric cut procedure (t^{cut})	1.9
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_2000_075.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	75.0 %
Edges (m)	1,498,911

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	1,803,073.0	0.03	0.00	—	—	2,995.99	7.52	0.13	73.3	120.0	120.0	121.7	120.0
5.0	3,663,306.0	0.07	0.00	—	—	1,559.79	5.27	0.03	106.9	120.0	120.0	121.6	120.0
10.0	7,433,529.0	0.02	0.00	—	—	858.19	6.76	0.06	120.1	120.0	120.0	120.8	120.0
25.0	18,651,257.0	0.01	0.00	—	—	289.76	7.64	0.11	120.1	120.0	120.0	122.2	120.0
50.0	37,524,347.0	0.01	0.00	—	—	96.98	7.34	0.12	120.1	120.0	120.0	122.8	120.0
75.0	56,431,262.0	0.00	0.00	—	—	32.49	3.72	0.10	120.1	120.0	120.0	121.9	120.0
90.0	67,786,207.0	0.01	0.00	—	—	11.05	1.34	0.08	120.1	120.0	120.0	121.8	120.0
95.0	71,558,718.0	0.00	0.00	—	—	4.74	0.50	0.07	120.1	120.0	120.0	122.2	120.0
Avg		0.02	0.00	—	—	731.12	5.01	0.09	112.6	120.0	120.0	121.9	120.0
Min		0.00	0.00	—	—	4.74	0.50	0.03	73.3	120.0	120.0	120.8	120.0
Max		0.07	0.00	—	—	2,995.99	7.64	0.13	120.1	120.0	120.0	122.8	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	18.5
Running time in seconds for executing parametric cut procedure (t^{cut})	2.5
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-ran_2000_100.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	100.0 %
Edges (m)	1,999,000

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	RG	DP	QK	Gurobi	Hexaly	QKBP*	RG	DP	QK	Gurobi	Hexaly
2.5	2,406,522.0	0.05	0.00	—	—	2,900.43	8.47	0.14	77.9	120.0	120.0	121.3	120.0
5.0	4,870,973.0	0.03	0.00	—	—	1,847.49	11.53	0.03	111.1	120.0	120.0	121.9	120.0
10.0	9,882,869.0	0.01	0.00	—	—	859.77	8.95	0.06	120.1	120.0	120.0	121.4	120.0
25.0	24,893,053.0	0.00	0.00	—	—	295.85	9.87	0.11	120.1	120.0	120.0	122.8	120.0
50.0	49,984,164.0	0.01	0.00	—	—	95.67	8.03	0.12	120.2	120.0	120.0	122.0	120.0
75.0	75,260,969.0	0.00	0.00	—	—	31.63	4.32	0.10	120.0	120.0	120.0	121.4	120.0
90.0	90,383,036.0	0.00	0.00	—	—	10.23	1.66	0.08	120.0	120.0	120.0	121.5	120.0
95.0	95,406,256.0	0.00	0.00	—	—	4.91	0.64	0.08	120.2	120.0	120.0	121.2	120.0
Avg		0.01	0.00	—	—	755.75	6.68	0.09	113.7	120.0	120.0	121.7	120.0
Min		0.00	0.00	—	—	4.91	0.64	0.03	77.9	120.0	120.0	121.2	120.0
Max		0.05	0.00	—	—	2,900.43	11.53	0.14	120.2	120.0	120.0	122.8	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	1
Running time in seconds for writing input file (t^{write})	23.8
Running time in seconds for executing parametric cut procedure (t^{cut})	3.3
Running time in seconds for reading result file (t^{read})	0.0