

Results for instances from collection
Dispersion-QKP with strategy wgeo

File dispersion-qkp-wgeo_0100_005.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	5.0 %
Edges (m)	251

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly		QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	38,140.3	0.00	5.03	10.27	0.00	0.00	0.00		0.00	0.0	0.2	0.1	0.0	0.0
5.0	67,460.6	2.02	3.08	2.02	0.00	0.00	0.00		0.00	0.1	0.2	0.1	0.1	1.0
10.0	119,872.3	5.02	2.50	0.86	0.00	0.00	0.00		0.00	0.1	0.2	0.2	0.2	0.0
25.0	264,565.2	0.10	0.12	1.40	0.00	0.00	0.00		0.00	0.1	0.4	0.2	0.1	2.0
50.0	471,375.7	0.47	0.47	0.35	0.00	0.00	0.00		0.00	0.2	0.5	0.2	0.0	0.0
75.0	621,400.2	0.00	0.41	0.00	0.00	0.00	0.00		0.00	0.3	0.6	0.2	0.0	1.0
90.0	687,642.2	0.08	0.08	0.00	0.00	0.00	0.00		0.00	0.3	0.6	0.2	0.0	0.0
95.0	701,748.5	0.32	0.00	0.00	0.00	0.00	0.00		0.00	0.3	0.6	0.1	0.0	0.0
Avg		1.00	1.46	1.86	0.00	0.00	0.00		0.00	0.2	0.4	0.2	0.1	0.5
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		5.02	5.03	10.27	0.00	0.00	0.00		0.00	0.3	0.6	0.2	0.2	2.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	35
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-wgeo_0100_010.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	10.0 %
Edges (m)	471

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	57,117.0	1.35	0.00	6.30	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.1	1.0
5.0	106,422.9	0.00	1.53	2.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.2	0.0
10.0	205,559.9	0.59	0.11	0.11	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.1	1.0
25.0	470,964.6	0.00	0.37	0.58	0.00	0.00	0.00	0.00	0.1	0.3	0.4	0.1	1.0
50.0	906,817.7	0.37	0.00	0.19	0.00	0.00	0.00	0.00	0.2	0.5	0.3	0.4	2.0
75.0	1,290,738.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
90.0	1,477,953.3	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
95.0	1,526,199.7	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.0	0.0
Avg		0.38	0.25	1.15	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.1	0.9
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		1.35	1.53	6.30	0.00	0.00	0.00	0.00	0.3	0.6	0.4	0.4	2.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	26
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-wgeo_0100_025.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	25.0 %
Edges (m)	1,226

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	123,713.2	0.89	0.89	0.89	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.2	1.0
5.0	245,784.7	1.02	0.76	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	2.0
10.0	477,217.8	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.7	1.0
25.0	1,146,784.5	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.9	9.0
50.0	2,164,788.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.1	1.0
75.0	3,051,221.7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.1	1.0
90.0	3,520,123.3	0.23	0.35	0.01	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.4	4.0
95.0	3,662,096.9	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.3	0.7	0.1	0.1	0.0
Avg		0.39	0.25	0.16	0.00	0.00	0.00	0.00	0.2	0.4	0.2	0.4	2.4
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		1.02	0.89	0.89	0.00	0.00	0.00	0.00	0.3	0.7	0.2	0.9	9.0

*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-wgeo_0100_050.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	50.0 %
Edges (m)	2,492

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	255,249.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.2	0.5	1.0
5.0	448,743.8	4.28	0.39	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.6	4.0
10.0	810,400.3	1.20	0.17	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	5.1	12.0
25.0	1,980,919.5	0.46	0.10	0.10	0.00	0.00	0.00	0.00	0.2	0.4	0.5	3.6	15.0
50.0	3,949,444.1	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.5	0.2	1.2	6.0
75.0	5,810,921.5	1.16	0.25	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.2	0.7	5.0
90.0	6,802,356.0	0.75	0.56	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.9	13.0
95.0	7,105,637.9	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.1	0.6	3.0
Avg		1.11	0.18	0.01	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.6	7.4
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.1	0.5	1.0
Max		4.28	0.56	0.10	0.00	0.00	0.00	0.00	0.3	0.6	0.5	5.1	15.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
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-wgeo_0100_075.txt

Property of graph	Value
Nodes (n)	100
Density (Δ)	75.0 %
Edges (m)	3,684

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	352,111.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.7	2.0
5.0	673,237.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	3.0
10.0	1,278,185.2	1.93	0.70	0.01	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.9	19.0
25.0	3,092,915.6	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.1	8.0
50.0	6,073,147.4	0.72	0.23	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.4	4.0
75.0	8,589,661.3	0.44	0.13	0.01	0.00	0.00	0.00	0.00	0.3	0.5	0.2	3.3	27.0
90.0	9,990,593.6	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	2.0	7.0
95.0	10,451,536.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	0.4	3.0
Avg		0.42	0.15	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	1.4	9.1
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	0.4	2.0
Max		1.93	0.70	0.01	0.00	0.00	0.00	0.00	0.3	0.6	0.2	3.3	27.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	0.4
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-wgeo_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*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	529,986.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.3	3.0
5.0	1,040,809.6	2.79	2.66	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.5	8.0
10.0	1,891,834.7	0.45	0.14	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	4.3	88.0
25.0	4,289,387.5	0.98	0.59	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	10.2	48.0
50.0	8,218,566.5	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.5	0.2	4.6	18.0
75.0	12,029,434.1	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.5	0.2	1.6	11.0
90.0	14,039,399.1	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	4.5	35.0
95.0	14,651,459.4	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	1.4	12.0
Avg		0.71	0.52	0.00	0.00	0.00	0.00	0.00	0.2	0.4	0.2	3.7	27.9
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.2	0.2	1.3	3.0
Max		2.79	2.66	0.00	0.00	0.00	0.00	0.00	0.3	0.6	0.2	10.2	88.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	15
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-wgeo_0200_005.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	5.0 %
Edges (m)	995

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	146,162.4	0.99	0.12	5.21	0.00	0.00	0.00	0.00	0.2	1.2	0.5	0.2	5.0
5.0	266,776.3	0.59	0.59	2.31	0.00	0.00	0.00	0.00	0.3	1.7	0.6	0.2	2.0
10.0	481,767.3	0.00	0.80	1.17	0.00	0.00	0.00	0.00	0.4	2.2	0.7	0.1	0.0
25.0	1,032,383.2	0.31	0.17	0.40	0.00	0.00	0.00	0.00	0.7	3.2	2.2	0.4	13.0
50.0	1,890,439.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	4.1	1.2	0.2	8.0
75.0	2,561,740.8	0.11	0.00	0.00	0.00	0.00	0.00	0.00	1.2	4.5	1.1	0.1	4.0
90.0	2,884,872.8	0.09	0.11	0.00	0.00	0.00	0.00	0.00	1.3	4.5	0.7	0.2	19.0
95.0	2,982,533.4	0.10	0.06	0.00	0.00	0.00	0.00	0.00	1.4	4.7	0.5	0.2	4.0
Avg		0.27	0.23	1.14	0.00	0.00	0.00	0.00	0.8	3.3	1.0	0.2	6.9
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.2	0.5	0.1	0.0
Max		0.99	0.80	5.21	0.00	0.00	0.00	0.00	1.4	4.7	2.2	0.4	19.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	35
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-wgeo_0200_010.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	10.0 %
Edges (m)	2,014

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	205,919.5	0.57	2.17	1.82	0.00	0.00	0.00	0.00	0.2	1.3	0.7	0.6	5.0
5.0	387,143.6	0.59	0.17	0.49	0.00	0.00	0.00	0.00	0.3	1.6	1.3	1.8	11.0
10.0	756,587.5	1.11	0.04	0.60	0.00	0.00	0.00	0.00	0.4	2.2	2.1	1.2	9.0
25.0	1,819,489.9	0.63	0.68	0.41	0.00	0.00	0.00	0.00	0.7	3.3	1.4	0.2	3.0
50.0	3,395,526.8	0.25	0.04	0.01	0.00	0.00	0.00	0.00	1.0	4.0	1.3	0.8	17.0
75.0	4,751,300.8	0.19	0.02	0.00	0.00	0.00	0.00	0.00	1.2	4.4	1.1	0.5	9.0
90.0	5,448,694.2	0.04	0.00	0.00	0.00	0.00	0.00	0.00	1.4	4.4	0.7	0.5	21.0
95.0	5,645,401.4	0.02	0.02	0.00	0.00	0.00	0.00	0.00	1.4	4.7	0.5	0.4	9.0
Avg		0.43	0.39	0.42	0.00	0.00	0.00	0.00	0.8	3.2	1.1	0.7	10.5
Min		0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	0.2	3.0
Max		1.11	2.17	1.82	0.00	0.00	0.00	0.00	1.4	4.7	2.1	1.8	21.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	33
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-wgeo_0200_025.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	25.0 %
Edges (m)	4,912

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	423,393.2	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	2.3	10.0
5.0	816,435.9	0.56	0.60	0.39	0.00	0.00	0.00	0.00	0.3	1.7	1.1	1.4	19.0
10.0	1,585,981.8	0.73	0.31	0.22	0.00	0.00	0.00	0.00	0.4	2.3	3.7	8.5	40.0
25.0	3,971,396.9	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.7	3.2	1.8	2.6	22.0
50.0	7,732,914.9	0.11	0.11	0.00	0.00	0.00	0.00	0.00	1.0	3.9	1.7	1.8	9.0
75.0	11,273,958.2	0.24	0.00	0.00	0.00	0.00	0.00	0.00	1.2	4.4	1.1	1.2	13.0
90.0	13,196,202.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	4.4	0.6	0.5	7.0
95.0	13,741,499.1	0.35	0.25	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.6	1.0	32.0
Avg		0.35	0.16	0.08	0.00	0.00	0.00	0.00	0.8	3.2	1.4	2.4	19.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.5	0.5	7.0
Max		0.73	0.60	0.39	0.00	0.00	0.00	0.00	1.4	4.5	3.7	8.5	40.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
Running time in seconds for writing input file (t^{write})	0.7
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-wgeo_0200_050.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	50.0 %
Edges (m)	9,910

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	776,259.1	3.25	0.00	0.40	0.00	0.00	0.00	0.00	0.2	1.3	0.6	5.2	22.0
5.0	1,542,504.5	1.09	0.32	0.07	0.00	0.00	0.00	0.00	0.3	1.7	0.6	6.1	55.0
10.0	3,021,738.5	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.5	2.3	1.1	10.4	98.0
25.0	7,397,481.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	3.2	1.7	8.9	60.0
50.0	14,569,299.9	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.0	4.0	7.5	19.8	120.0
75.0	21,775,525.8	0.14	0.00	0.00	0.00	0.00	0.00	0.00	1.2	4.3	0.9	9.7	120.0
90.0	25,605,308.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	4.4	0.7	2.7	39.0
95.0	26,758,444.1	0.28	0.28	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.6	2.1	24.0
Avg		0.60	0.08	0.06	0.00	0.00	0.01	0.00	0.8	3.2	1.7	8.1	67.2
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	2.1	22.0
Max		3.25	0.32	0.40	0.00	0.00	0.09	0.00	1.4	4.5	7.5	19.8	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})	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-wgeo_0200_075.txt

Property of graph	Value
Nodes (n)	200
Density (Δ)	75.0 %
Edges (m)	14,844

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	1,295,780.2	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	5.4	29.0
5.0	2,435,088.9	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.3	1.7	0.6	17.6	75.0
10.0	4,676,319.6	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.5	2.3	0.8	15.4	103.0
25.0	11,535,176.1	0.19	0.02	0.02	0.00	0.00	0.00	0.00	0.7	3.2	0.8	22.3	120.0
50.0	22,470,347.1	0.53	0.11	0.00	0.00	0.00	0.04	0.00	1.0	3.9	1.1	21.3	120.0
75.0	32,810,498.6	0.32	0.25	0.00	0.00	0.00	0.00	0.00	1.2	4.4	0.8	14.3	120.0
90.0	38,301,995.6	0.49	0.00	0.00	0.00	0.00	0.00	0.00	1.4	4.3	0.7	15.3	120.0
95.0	39,956,717.1	0.28	0.28	0.00	0.00	0.00	0.00	0.00	1.4	4.7	0.6	7.9	120.0
Avg		0.41	0.14	0.00	0.00	0.00	0.01	0.00	0.8	3.2	0.7	14.9	100.9
Min		0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	5.4	29.0
Max		0.84	0.48	0.02	0.00	0.00	0.04	0.00	1.4	4.7	1.1	22.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
Running time in seconds for writing input file (t^{write})	0.8
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-wgeo_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*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	1,503,340.4	3.20	0.14	0.08	0.00	0.00	0.00	0.00	0.2	1.3	0.6	25.6	120.0
5.0	3,161,207.9	1.68	0.23	0.00	0.00	0.00	0.00	0.00	0.3	1.7	0.6	30.6	120.0
10.0	6,389,157.8	0.23	0.07	0.00	0.00	0.00	0.00	0.00	0.5	2.3	0.7	37.6	120.0
25.0	16,254,572.2	0.29	0.05	0.00	0.00	0.00	0.00	0.00	0.7	3.2	0.7	63.5	120.0
50.0	31,852,586.8	0.09	0.09	0.00	0.00	0.00	0.03	0.00	1.0	3.9	0.7	30.2	120.0
75.0	46,718,823.1	0.39	0.00	0.00	0.00	0.00	0.01	0.00	1.2	4.4	0.7	30.5	120.0
90.0	54,656,763.5	0.36	0.33	0.00	0.00	0.00	0.00	0.00	1.4	4.3	0.6	40.7	120.0
95.0	57,126,753.6	0.18	0.18	0.00	0.00	0.00	0.00	0.00	1.4	4.5	0.6	18.2	120.0
Avg		0.80	0.14	0.01	0.00	0.00	0.01	0.00	0.9	3.2	0.6	34.6	120.0
Min		0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.2	1.3	0.6	18.2	120.0
Max		3.20	0.33	0.08	0.00	0.00	0.03	0.00	1.4	4.5	0.7	63.5	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})	0.8
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-wgeo_0300_005.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	5.0 %
Edges (m)	2,311

		Deviation from best OFV (%)							Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly	
2.5	243,827.0	0.00	0.89	3.22	0.00	0.00	0.00	0.00	0.5	5.8	1.8	0.2	4.0	
5.0	456,069.3	0.79	1.12	1.92	0.00	0.00	0.00	0.00	0.7	7.6	2.4	0.3	4.0	
10.0	871,396.1	0.34	0.79	1.66	0.00	0.00	0.00	0.00	1.1	9.9	3.3	0.7	22.0	
25.0	1,982,381.4	0.45	0.27	0.32	inf	0.00	0.00	0.01	1.7	14.1	120.0	1.3	21.0	
50.0	3,784,007.6	0.00	0.12	0.17	inf	0.00	0.00	0.01	2.5	16.5	120.0	0.6	5.0	
75.0	5,342,038.6	0.03	0.07	0.02	0.00	0.00	0.00	0.00	3.1	16.8	6.2	0.4	21.0	
90.0	6,136,494.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.7	1.6	0.2	5.0	
95.0	6,334,829.4	0.20	0.16	0.00	0.00	0.00	0.00	0.00	3.4	16.0	1.3	0.4	55.0	
Avg		0.23	0.43	0.91	inf	0.00	0.00	0.00	2.0	12.8	32.1	0.5	17.1	
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	5.8	1.3	0.2	4.0	
Max		0.79	1.12	3.22	inf	0.00	0.00	0.01	3.4	16.8	120.0	1.3	55.0	

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	24
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-wgeo_0300_010.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	10.0 %
Edges (m)	4,491

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	458,676.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	6.0	1.5	0.3	4.0
5.0	844,525.4	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.8	7.9	2.2	0.9	36.0
10.0	1,556,993.5	0.49	0.44	0.23	0.00	0.00	0.00	0.00	1.1	10.3	12.9	4.6	59.0
25.0	3,619,800.7	0.36	0.03	0.05	inf	0.00	0.00	0.01	1.7	14.0	120.0	4.1	117.0
50.0	7,002,766.4	0.18	0.10	0.07	0.00	0.00	0.00	0.00	2.5	16.4	32.5	2.0	48.0
75.0	10,160,390.8	0.01	0.01	0.01	0.00	0.00	0.00	0.00	3.0	16.1	5.8	1.1	115.0
90.0	11,857,368.3	0.26	0.26	0.00	0.00	0.00	0.00	0.00	3.3	16.2	2.5	1.4	120.0
95.0	12,374,781.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.5	1.4	0.2	1.0
Avg		0.16	0.10	0.05	inf	0.00	0.00	0.00	2.0	12.8	22.4	1.8	62.5
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	6.0	1.4	0.2	1.0
Max		0.49	0.44	0.23	inf	0.00	0.00	0.01	3.4	16.4	120.0	4.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	35
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-wgeo_0300_025.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	25.0 %
Edges (m)	11,240

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	931,558.9	0.50	0.08	0.11	0.00	0.00	0.00	0.00	0.6	6.3	3.0	7.6	35.0
5.0	1,853,334.4	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.8	8.1	4.1	7.8	66.0
10.0	3,664,060.9	0.52	0.26	0.05	0.00	0.00	0.00	0.01	1.1	10.4	16.7	14.0	59.0
25.0	9,131,039.3	0.17	0.03	0.03	0.00	0.00	0.00	0.01	1.8	14.2	17.4	16.6	120.0
50.0	17,810,122.9	0.19	0.05	0.01	0.00	0.00	0.03	0.00	2.5	16.0	6.7	11.0	120.0
75.0	25,817,371.7	0.01	0.00	0.00	0.00	0.00	0.06	0.00	3.1	16.4	2.8	4.2	120.0
90.0	30,166,923.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	15.5	1.8	3.1	109.0
95.0	31,466,609.4	0.02	0.01	0.00	0.00	0.00	0.00	0.00	3.4	15.8	1.4	5.8	97.0
Avg		0.19	0.05	0.03	0.00	0.00	0.01	0.00	2.1	12.8	6.7	8.8	90.8
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.3	1.4	3.1	35.0
Max		0.52	0.26	0.11	0.00	0.00	0.06	0.01	3.4	16.4	17.4	16.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	21
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-wgeo_0300_050.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	50.0 %
Edges (m)	22,294

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	1,785,890.6	0.30	0.11	0.01	0.00	0.00	0.00	0.00	0.6	6.2	2.5	73.6	120.0
5.0	3,600,198.8	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.8	8.2	1.5	38.7	120.0
10.0	6,955,208.0	1.06	0.00	0.00	0.00	0.00	0.07	0.00	1.2	10.6	6.6	120.7	120.0
25.0	17,494,277.6	0.11	0.04	0.03	0.00	0.00	0.00	0.01	1.8	14.0	15.4	76.8	120.0
50.0	35,223,495.4	0.45	0.03	0.00	0.00	0.00	0.03	0.00	2.6	16.4	3.2	44.3	120.0
75.0	51,060,804.8	0.01	0.01	0.01	0.00	0.00	0.00	0.00	3.1	16.0	2.2	24.3	120.0
90.0	59,418,082.5	0.31	0.22	0.00	0.00	0.00	0.00	0.00	3.4	15.7	1.7	24.5	120.0
95.0	61,900,195.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.8	1.4	7.8	120.0
Avg		0.37	0.05	0.01	0.00	0.00	0.01	0.00	2.1	12.8	4.3	51.3	120.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.2	1.4	7.8	120.0
Max		1.06	0.22	0.03	0.00	0.00	0.07	0.01	3.4	16.4	15.4	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	17
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-wgeo_0300_075.txt

Property of graph	Value
Nodes (n)	300
Density (Δ)	75.0 %
Edges (m)	33,661

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	2,999,792.3	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.3	1.4	25.6	120.0
5.0	5,522,693.0	0.72	0.36	0.00	0.00	0.00	0.00	0.00	0.8	8.2	1.6	44.2	120.0
10.0	10,622,771.9	0.05	0.04	0.00	0.00	0.00	0.02	0.01	1.1	10.5	2.5	113.7	120.0
25.0	26,124,846.2	0.14	0.00	0.00	0.00	0.00	0.02	0.01	1.8	14.0	3.0	120.7	120.0
50.0	52,283,443.2	0.22	0.02	0.00	0.00	0.00	0.00	0.00	2.5	16.2	2.5	120.3	120.0
75.0	75,852,661.7	0.44	0.22	0.00	0.00	0.00	0.00	0.00	3.0	15.9	1.9	120.3	120.0
90.0	88,637,353.5	0.15	0.05	0.00	0.00	0.00	0.00	0.00	3.3	16.1	1.8	41.5	120.0
95.0	92,604,309.4	0.07	0.07	0.00	0.00	0.00	0.00	0.00	3.3	15.4	1.5	90.2	120.0
Avg		0.27	0.10	0.00	0.00	0.00	0.01	0.00	2.1	12.8	2.0	84.6	120.0
Min		0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.3	1.4	25.6	120.0
Max		0.72	0.36	0.00	0.00	0.00	0.02	0.01	3.3	16.2	3.0	120.7	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	19
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-wgeo_0300_100.txt

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

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	3,954,022.0	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.5	1.4	14.2	120.0
5.0	7,543,680.9	1.16	0.46	0.00	0.00	0.00	0.00	0.00	0.8	8.7	1.4	48.9	120.0
10.0	14,538,477.6	0.83	0.02	0.00	0.00	0.00	0.00	0.00	1.1	10.6	1.6	86.3	120.0
25.0	35,493,957.2	0.00	0.00	0.00	0.00	0.00	0.03	0.01	1.8	14.2	1.7	54.5	120.0
50.0	68,925,411.6	0.28	0.01	0.00	0.00	0.00	0.04	0.01	2.4	16.1	2.0	120.3	120.0
75.0	102,263,704.4	0.29	0.06	0.00	0.00	0.00	0.00	0.00	3.0	16.1	1.8	62.1	120.0
90.0	120,661,324.4	0.15	0.00	0.00	0.00	0.00	0.01	0.00	3.2	15.6	1.5	44.2	120.0
95.0	125,950,486.8	0.03	0.00	0.00	0.00	0.00	0.00	0.00	3.4	15.7	1.4	13.2	120.0
Avg		0.37	0.07	0.00	0.00	0.00	0.01	0.00	2.0	12.9	1.6	55.5	120.0
Min		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.6	6.5	1.4	13.2	120.0
Max		1.16	0.46	0.00	0.00	0.00	0.04	0.01	3.4	16.1	2.0	120.3	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	18
Running time in seconds for writing input file (t^{write})	1.3
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-wgeo_0500_005.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	5.0 %
Edges (m)	6,367

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	558,061.0	1.76	1.48	3.88	inf	0.00	0.00	0.01	1.5	40.5	120.0	3.6	35.0
5.0	1,128,973.8	0.35	0.08	0.79	inf	0.00	0.08	0.00	2.4	54.2	120.0	2.3	120.0
10.0	2,230,939.1	0.39	0.22	0.42	inf	0.00	0.00	0.01	3.4	76.1	120.0	3.8	120.0
25.0	5,452,739.2	0.15	0.12	0.36	inf	0.00	0.00	0.01	5.7	110.4	120.0	2.2	40.0
50.0	10,669,402.8	0.06	0.03	0.06	inf	0.00	0.00	0.01	8.3	109.3	120.0	1.1	58.0
75.0	15,422,748.8	0.03	0.03	0.03	inf	0.00	0.00	0.00	10.3	109.5	120.0	1.9	42.0
90.0	17,896,753.9	0.04	0.00	0.00	inf	0.00	0.02	0.00	11.2	103.1	120.0	1.0	120.0
95.0	18,573,898.0	0.00	0.00	0.00	inf	0.00	0.00	0.00	11.8	94.5	120.0	0.5	1.0
Avg		0.35	0.24	0.69	inf	0.00	0.01	0.01	6.8	87.2	120.0	2.1	67.0
Min		0.00	0.00	0.00	inf	0.00	0.00	0.00	1.5	40.5	120.0	0.5	1.0
Max		1.76	1.48	3.88	inf	0.00	0.08	0.01	11.8	110.4	120.0	3.8	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	29
Running time in seconds for writing input file (t^{write})	1.7
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-wgeo_0500_010.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	10.0 %
Edges (m)	12,399

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	1,084,012.7	0.23	0.38	0.57	inf	0.00	0.00	0.01	1.5	39.2	120.0	17.0	68.0
5.0	2,087,950.0	0.00	0.09	0.45	inf	0.00	0.00	0.01	2.3	55.6	120.0	19.2	83.0
10.0	4,020,257.3	0.39	0.22	0.12	inf	0.00	0.14	0.01	3.4	72.8	120.0	32.1	120.0
25.0	10,123,775.8	0.00	0.12	0.07	inf	0.00	0.00	0.01	5.5	103.8	120.0	26.3	120.0
50.0	20,091,488.2	0.04	0.04	0.02	inf	0.00	0.04	0.01	7.9	108.9	120.0	12.1	120.0
75.0	29,194,379.6	0.13	0.04	0.00	inf	0.00	0.01	0.00	9.5	110.7	120.0	5.8	120.0
90.0	34,046,724.2	0.04	0.01	0.00	inf	0.00	0.00	0.00	10.4	98.4	120.0	5.1	120.0
95.0	35,437,662.4	0.02	0.00	0.00	inf	0.00	0.00	0.00	10.6	88.9	120.0	1.5	9.0
Avg		0.11	0.11	0.15	inf	0.00	0.02	0.01	6.4	84.8	120.0	14.9	95.0
Min		0.00	0.00	0.00	inf	0.00	0.00	0.00	1.5	39.2	120.0	1.5	9.0
Max		0.39	0.38	0.57	inf	0.00	0.14	0.01	10.6	110.7	120.0	32.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	26
Running time in seconds for writing input file (t^{write})	1.7
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-wgeo_0500_025.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	25.0 %
Edges (m)	31,118

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	2,581,885.1	0.30	0.24	0.00	inf	0.00	0.50	0.01	1.7	42.5	120.0	22.3	120.0
5.0	5,160,148.6	0.41	0.28	0.00	inf	0.00	0.10	0.00	2.5	56.6	120.0	19.9	120.0
10.0	10,016,504.2	0.58	0.12	0.00	inf	0.00	0.06	0.01	3.5	73.7	120.0	91.7	120.0
25.0	24,853,019.8	0.08	0.03	0.03	inf	0.00	0.01	0.01	5.7	103.2	120.0	43.4	120.0
50.0	48,993,908.6	0.14	0.00	0.00	inf	0.00	0.00	0.01	7.9	108.0	120.0	67.4	120.0
75.0	72,048,838.2	0.24	0.00	0.00	inf	0.00	0.09	0.00	9.5	108.5	120.0	59.2	120.0
90.0	84,301,112.3	0.07	0.05	0.00	inf	0.00	0.02	0.00	10.2	97.8	120.0	9.7	120.0
95.0	87,707,536.1	0.02	0.02	0.00	inf	0.00	0.00	0.00	10.5	89.6	120.0	17.9	120.0
Avg		0.23	0.09	0.00	inf	0.00	0.10	0.01	6.4	85.0	120.0	41.4	120.0
Min		0.02	0.00	0.00	inf	0.00	0.00	0.00	1.7	42.5	120.0	9.7	120.0
Max		0.58	0.28	0.03	inf	0.00	0.50	0.01	10.5	108.5	120.0	91.7	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})	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-wgeo_0500_050.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	50.0 %
Edges (m)	62,463

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	4,702,038.2	0.52	0.40	0.00	inf	0.12	0.00	0.01	1.7	45.4	120.0	120.1	120.0
5.0	9,564,042.5	0.58	0.07	0.00	inf	6.43	0.21	0.01	2.6	57.1	120.0	120.1	120.0
10.0	18,747,885.1	0.00	0.00	0.00	inf	1.18	0.08	0.01	3.6	78.5	120.0	120.1	120.0
25.0	47,909,716.0	0.11	0.04	0.00	inf	6.50	0.00	0.01	5.7	103.4	120.0	120.1	120.0
50.0	96,893,829.3	0.06	0.00	0.00	inf	0.42	0.03	0.01	8.2	106.5	120.0	120.1	120.0
75.0	143,539,160.9	0.17	0.02	0.00	inf	0.00	0.11	0.00	9.9	106.3	120.0	57.7	120.0
90.0	168,210,283.3	0.06	0.06	0.00	inf	0.00	0.07	0.00	10.8	103.6	120.0	56.4	120.0
95.0	175,198,752.3	0.10	0.09	0.00	inf	0.00	0.00	0.00	11.0	91.4	120.0	64.7	120.0
Avg		0.20	0.08	0.00	inf	1.83	0.06	0.01	6.7	86.5	120.0	97.4	120.0
Min		0.00	0.00	0.00	inf	0.00	0.00	0.00	1.7	45.4	120.0	56.4	120.0
Max		0.58	0.40	0.00	inf	6.50	0.21	0.01	11.0	106.5	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
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-wgeo_0500_075.txt

Property of graph	Value
Nodes (n)	500
Density (Δ)	75.0 %
Edges (m)	93,428

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	7,076,592.5	0.58	0.04	0.00	inf	2,418.75	0.04	0.01	1.7	42.5	120.0	120.1	120.0
5.0	14,158,194.6	0.10	0.06	0.00	inf	1,612.72	0.00	0.01	2.4	56.8	120.0	120.1	120.0
10.0	28,229,742.7	0.11	0.00	0.00	inf	7.32	0.17	0.01	3.5	73.8	120.0	120.1	120.0
25.0	71,497,396.7	0.00	0.00	0.00	inf	5.39	0.10	0.01	5.6	103.0	120.0	120.1	120.0
50.0	145,346,118.0	0.32	0.00	0.00	inf	23.63	0.02	0.01	7.9	106.3	120.0	120.1	120.0
75.0	215,222,498.9	0.17	0.00	0.00	inf	0.07	0.16	0.01	9.4	108.7	120.0	120.1	120.0
90.0	252,337,180.7	0.18	0.10	0.00	inf	0.00	0.00	0.00	10.2	97.2	120.0	90.5	120.0
95.0	262,959,622.5	0.13	0.13	0.00	inf	0.00	0.00	0.00	10.4	89.3	120.0	95.5	120.0
Avg		0.20	0.04	0.00	inf	508.49	0.06	0.01	6.4	84.7	120.0	113.3	120.0
Min		0.00	0.00	0.00	inf	0.00	0.00	0.00	1.7	42.5	120.0	90.5	120.0
Max		0.58	0.13	0.00	inf	2,418.75	0.17	0.01	10.4	108.7	120.0	120.1	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})	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-wgeo_0500_100.txt

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

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	9,398,593.9	0.00	0.00	0.00	inf	3,166.00	0.00	0.01	1.7	43.2	120.0	120.1	120.0
5.0	18,962,077.3	0.08	0.00	0.00	inf	1,280.97	0.18	0.01	2.5	56.4	120.0	120.1	120.0
10.0	38,360,551.2	0.30	0.07	0.00	inf	644.98	0.04	0.01	3.6	73.9	120.0	120.1	120.0
25.0	96,012,175.0	0.01	0.00	0.00	inf	287.33	0.02	0.01	5.8	106.0	120.0	120.1	120.0
50.0	190,519,222.4	0.25	0.02	0.00	inf	106.70	0.13	0.01	8.3	109.6	120.0	120.1	120.0
75.0	281,686,636.9	0.16	0.01	0.00	inf	32.76	0.06	0.00	9.9	110.6	120.0	120.1	120.0
90.0	330,405,009.5	0.00	0.00	0.00	inf	0.00	0.19	0.00	11.2	98.7	120.0	86.0	120.0
95.0	344,823,907.4	0.06	0.04	0.00	inf	0.00	0.11	0.00	11.1	90.0	120.0	94.9	120.0
Avg		0.11	0.02	0.00	inf	689.84	0.09	0.01	6.8	86.0	120.0	112.7	120.0
Min		0.00	0.00	0.00	inf	0.00	0.00	0.00	1.7	43.2	120.0	86.0	120.0
Max		0.30	0.07	0.00	inf	3,166.00	0.19	0.01	11.2	110.6	120.0	120.1	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	15
Running time in seconds for writing input file (t^{write})	2.6
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-wgeo_1000_005.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	5.0 %
Edges (m)	24,926

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	2,097,668.7	0.27	0.19	inf	inf	0.00	0.66	0.02	10.2	120.0	120.0	54.7	120.0
5.0	4,133,456.0	0.20	0.05	inf	inf	0.00	0.12	0.01	15.4	120.0	120.0	63.0	120.0
10.0	8,257,446.2	0.15	0.06	inf	inf	0.00	0.11	0.02	23.0	120.0	120.0	58.7	120.0
25.0	20,679,798.2	0.07	0.00	inf	inf	0.00	0.03	0.03	37.4	120.0	120.0	120.3	120.0
50.0	40,900,913.2	0.05	0.01	inf	inf	0.00	0.08	0.01	51.9	120.0	120.0	13.6	120.0
75.0	59,586,465.8	0.01	0.00	inf	inf	0.00	0.05	0.01	63.5	120.0	120.0	13.6	120.0
90.0	69,335,143.9	0.01	0.00	inf	inf	0.00	0.00	0.01	67.6	120.0	120.0	3.6	94.0
95.0	72,114,236.0	0.01	0.00	inf	inf	0.00	0.00	0.01	69.8	120.0	120.0	4.2	88.0
Avg		0.10	0.04	inf	inf	0.00	0.13	0.02	42.4	120.0	120.0	41.5	112.8
Min		0.01	0.00	inf	inf	0.00	0.00	0.01	10.2	120.0	120.0	3.6	88.0
Max		0.27	0.19	inf	inf	0.00	0.66	0.03	69.8	120.0	120.0	120.3	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})	3.6
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-wgeo_1000_010.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	10.0 %
Edges (m)	49,500

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	4,094,690.2	0.17	0.15	inf	inf	0.00	0.28	0.01	9.8	120.0	120.0	85.2	120.0
5.0	8,106,253.8	0.08	0.02	inf	inf	0.00	0.10	0.01	14.9	120.0	120.0	69.9	120.0
10.0	16,208,280.2	0.00	0.03	inf	inf	0.00	0.03	0.02	22.5	120.0	120.0	80.0	120.0
25.0	39,835,229.4	0.02	0.01	inf	inf	0.00	0.13	0.02	35.7	120.0	120.0	30.3	120.0
50.0	77,902,137.5	0.02	0.01	inf	inf	0.00	0.02	0.03	51.1	120.0	120.0	121.1	120.0
75.0	114,534,934.7	0.01	0.00	inf	inf	0.00	0.06	0.01	61.7	120.0	120.0	13.1	120.0
90.0	134,305,637.5	0.03	0.00	inf	inf	0.00	0.09	0.01	65.6	120.0	120.0	13.3	120.0
95.0	140,105,204.9	0.09	0.01	inf	inf	0.00	0.04	0.01	66.9	120.0	120.0	11.0	120.0
Avg		0.05	0.03	inf	inf	0.00	0.09	0.01	41.0	120.0	120.0	53.0	120.0
Min		0.00	0.00	inf	inf	0.00	0.02	0.01	9.8	120.0	120.0	11.0	120.0
Max		0.17	0.15	inf	inf	0.00	0.28	0.03	66.9	120.0	120.0	121.1	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})	3.7
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-wgeo_1000_025.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	25.0 %
Edges (m)	124,346

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	9,993,687.5	0.01	0.01	inf	inf	2,785.20	0.00	0.03	10.7	120.0	120.0	120.1	120.0
5.0	19,788,228.4	0.00	0.00	inf	inf	1,650.03	0.33	0.01	16.0	120.0	120.0	120.1	120.0
10.0	39,504,344.0	0.28	0.00	inf	inf	803.85	0.05	0.02	23.3	120.0	120.0	120.1	120.0
25.0	98,585,900.1	0.09	0.00	inf	inf	311.23	0.15	0.03	37.5	120.0	120.0	120.1	120.0
50.0	198,616,197.0	0.03	0.00	inf	inf	121.30	0.09	0.02	52.5	120.0	120.0	120.1	120.0
75.0	292,869,748.1	0.02	0.00	inf	inf	0.00	0.14	0.01	63.4	120.0	120.0	36.4	120.0
90.0	343,021,553.1	0.02	0.00	inf	inf	0.00	0.06	0.01	69.2	120.0	120.0	32.6	120.0
95.0	357,709,491.6	0.03	0.00	inf	inf	0.00	0.09	0.01	69.8	120.0	120.0	29.7	120.0
Avg		0.06	0.00	inf	inf	708.95	0.11	0.02	42.8	120.0	120.0	87.4	120.0
Min		0.00	0.00	inf	inf	0.00	0.00	0.01	10.7	120.0	120.0	29.7	120.0
Max		0.28	0.01	inf	inf	2,785.20	0.33	0.03	69.8	120.0	120.0	120.1	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})	4.5
Running time in seconds for executing parametric cut procedure (t^{cut})	0.6
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_1000_050.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	50.0 %
Edges (m)	250,545

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	17,884,079.9	0.00	0.00	inf	inf	2,932.39	0.35	0.03	10.4	120.0	120.0	120.4	120.0
5.0	37,062,363.1	0.47	0.00	inf	inf	1,945.77	0.26	0.01	15.7	120.0	120.0	120.3	120.0
10.0	74,779,460.4	0.02	0.00	inf	inf	856.41	0.31	0.02	22.1	120.0	120.0	120.4	120.0
25.0	192,960,369.6	0.13	0.00	inf	inf	311.42	0.37	0.03	36.2	120.0	120.0	120.3	120.0
50.0	387,058,835.1	0.11	0.00	inf	inf	0.00	0.37	0.02	50.2	120.0	120.0	120.3	120.0
75.0	574,164,632.3	0.05	0.00	inf	inf	5.02	0.11	0.01	60.6	120.0	120.0	120.6	120.0
90.0	675,290,477.1	0.05	0.00	inf	inf	3.52	0.15	0.01	64.9	120.0	120.0	120.3	120.0
95.0	704,722,770.8	0.06	0.00	inf	inf	1.84	0.03	0.01	65.6	120.0	120.0	120.3	120.0
Avg		0.11	0.00	inf	inf	757.05	0.24	0.02	40.7	120.0	120.0	120.4	120.0
Min		0.00	0.00	inf	inf	0.00	0.03	0.01	10.4	120.0	120.0	120.3	120.0
Max		0.47	0.00	inf	inf	2,932.39	0.37	0.03	65.6	120.0	120.0	120.6	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	14
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-wgeo_1000_075.txt

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	75.0 %
Edges (m)	374,402

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	27,658,495.8	0.00	0.00	inf	inf	2,472.82	0.84	0.03	11.0	120.0	120.0	120.4	120.0
5.0	56,356,737.3	0.00	0.00	inf	inf	1,443.26	0.46	0.01	15.8	120.0	120.0	120.4	120.0
10.0	113,215,508.7	0.18	0.00	inf	inf	810.69	0.60	0.02	23.4	120.0	120.0	120.4	120.0
25.0	288,913,846.2	0.19	0.00	inf	inf	296.34	0.54	0.03	38.2	120.0	120.0	120.4	120.0
50.0	590,302,430.7	0.00	0.00	inf	inf	113.75	0.53	0.03	52.5	120.0	120.0	120.3	120.0
75.0	880,675,581.5	0.01	0.00	inf	inf	40.47	0.20	0.01	63.3	120.0	120.0	120.5	120.0
90.0	1,033,406,951.1	0.10	0.00	inf	inf	12.10	0.17	0.01	67.6	120.0	120.0	120.4	120.0
95.0	1,077,214,007.8	0.04	0.04	inf	inf	6.10	0.00	0.01	69.3	120.0	120.0	120.4	120.0
Avg		0.07	0.01	inf	inf	649.44	0.42	0.02	42.6	120.0	120.0	120.4	120.0
Min		0.00	0.00	inf	inf	6.10	0.00	0.01	11.0	120.0	120.0	120.3	120.0
Max		0.19	0.04	inf	inf	2,472.82	0.84	0.03	69.3	120.0	120.0	120.5	120.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	15
Running time in seconds for writing input file (t^{write})	6.6
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-wgeo_1000_100.txt

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

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	36,867,381.1	0.24	0.00	inf	inf	2,668.33	0.90	0.03	10.5	120.0	120.0	120.4	121.0
5.0	75,092,164.0	0.31	0.00	inf	inf	1,702.11	0.94	0.01	15.4	120.0	120.0	120.5	121.0
10.0	152,189,862.7	0.20	0.00	inf	inf	1,065.76	0.49	0.02	24.2	120.0	120.0	120.4	121.0
25.0	393,457,775.1	0.00	0.00	inf	inf	345.20	1.00	0.03	39.5	120.0	120.0	120.4	121.0
50.0	786,395,235.4	0.02	0.00	inf	inf	116.19	0.59	0.02	56.8	120.0	120.0	120.6	121.0
75.0	1,160,864,584.9	0.13	0.00	inf	inf	43.84	0.33	0.01	66.7	120.0	120.0	120.5	121.0
90.0	1,360,479,209.5	0.11	0.00	inf	inf	17.26	0.23	0.01	70.9	120.0	120.0	120.5	121.0
95.0	1,419,830,579.9	0.09	0.00	inf	inf	8.20	0.02	0.01	72.0	120.0	120.0	120.5	120.0
Avg		0.14	0.00	inf	inf	745.86	0.56	0.02	44.5	120.0	120.0	120.5	120.9
Min		0.00	0.00	inf	inf	8.20	0.02	0.01	10.5	120.0	120.0	120.4	120.0
Max		0.31	0.00	inf	inf	2,668.33	1.00	0.03	72.0	120.0	120.0	120.6	121.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	16
Running time in seconds for writing input file (t^{write})	7.8
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-wgeo_2000_005.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	5.0 %
Edges (m)	99,390

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	8,162,301.0	0.00	0.00	inf	inf	3,386.64	0.16	0.06	63.8	120.0	120.0	120.1	120.0
5.0	16,061,052.8	0.00	0.04	inf	inf	10.19	0.18	0.04	99.1	120.0	120.0	120.1	120.0
10.0	31,862,810.5	0.03	0.00	inf	inf	4.44	0.25	0.06	120.0	120.0	120.0	120.1	120.0
25.0	79,902,717.2	0.01	0.00	inf	inf	1.95	0.15	0.10	120.0	120.0	120.0	120.1	120.0
50.0	159,101,626.8	0.02	0.00	inf	inf	0.00	0.12	0.07	120.1	120.0	120.0	26.7	120.0
75.0	233,228,426.7	0.00	0.00	inf	inf	0.00	0.11	0.07	120.1	120.0	120.0	18.7	120.0
90.0	272,100,482.5	0.01	0.00	inf	inf	0.00	0.09	0.08	120.1	120.0	120.0	18.9	120.0
95.0	283,623,035.8	0.00	0.00	inf	inf	0.00	0.05	0.08	120.1	120.0	120.0	22.1	120.0
Avg		0.01	0.01	inf	inf	425.40	0.14	0.07	110.4	120.0	120.0	70.8	120.0
Min		0.00	0.00	inf	inf	0.00	0.05	0.04	63.8	120.0	120.0	18.7	120.0
Max		0.03	0.04	inf	inf	3,386.64	0.25	0.10	120.1	120.0	120.0	120.1	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})	7.5
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-wgeo_2000_010.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	10.0 %
Edges (m)	199,944

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	15,158,237.1	0.09	0.00	inf	inf	1,997.86	0.36	0.13	69.6	120.0	120.0	120.4	120.0
5.0	30,820,187.5	0.01	0.00	inf	inf	1,580.84	0.47	0.03	102.8	120.0	120.0	120.4	120.0
10.0	62,924,872.2	0.01	0.00	inf	inf	836.44	0.28	0.06	120.0	120.0	120.0	120.4	120.0
25.0	158,171,275.1	0.00	0.00	inf	inf	283.48	0.25	0.06	120.0	120.0	120.0	120.3	120.0
50.0	314,268,401.3	0.02	0.00	inf	inf	0.01	0.24	0.10	120.2	120.0	120.0	114.6	120.0
75.0	462,872,938.6	0.02	0.00	inf	inf	5.72	0.18	0.07	120.0	120.0	120.0	120.6	120.0
90.0	542,046,348.4	0.01	0.00	inf	inf	3.22	0.10	0.08	120.1	120.0	120.0	120.7	120.0
95.0	565,582,538.7	0.04	0.00	inf	inf	1.85	0.08	0.07	120.2	120.0	120.0	120.7	120.0
Avg		0.02	0.00	inf	inf	588.68	0.24	0.08	111.6	120.0	120.0	119.8	120.0
Min		0.00	0.00	inf	inf	0.01	0.08	0.03	69.6	120.0	120.0	114.6	120.0
Max		0.09	0.00	inf	inf	1,997.86	0.47	0.13	120.2	120.0	120.0	120.7	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})	8.2
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-wgeo_2000_025.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	25.0 %
Edges (m)	500,305

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	37,986,132.3	0.06	0.00	inf	inf	2,327.06	1.54	0.13	65.3	120.0	120.0	121.0	121.0
5.0	76,528,469.4	0.23	0.00	inf	inf	0.27	0.66	0.03	97.4	120.0	120.0	120.3	121.0
10.0	152,682,680.5	0.01	0.00	inf	inf	44.82	0.74	0.05	120.0	120.0	120.0	121.1	121.0
25.0	379,984,618.9	0.01	0.00	inf	inf	72.94	0.98	0.10	120.0	120.0	120.0	120.4	121.0
50.0	760,656,415.4	0.01	0.00	inf	inf	0.11	0.82	0.08	120.0	120.0	120.0	120.6	120.0
75.0	1,127,172,236.1	0.00	0.00	inf	inf	5.22	0.29	0.07	120.0	120.0	120.0	120.4	120.0
90.0	1,325,660,720.7	0.00	0.00	inf	inf	3.72	0.22	0.07	120.1	120.0	120.0	120.5	121.0
95.0	1,383,523,525.9	0.00	0.00	inf	inf	2.18	0.08	0.07	120.1	120.0	120.0	120.5	120.0
Avg		0.04	0.00	inf	inf	307.04	0.67	0.07	110.4	120.0	120.0	120.6	120.6
Min		0.00	0.00	inf	inf	0.11	0.08	0.03	65.3	120.0	120.0	120.3	120.0
Max		0.23	0.00	inf	inf	2,327.06	1.54	0.13	120.1	120.0	120.0	121.1	121.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	11.0
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-wgeo_2000_050.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	50.0 %
Edges (m)	999,892

		Deviation from best OFV (%)						Running time (s)					
γ	Best OFV	QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	74,893,413.0	0.00	0.00	inf	inf	3,291.19	2.03	0.14	66.9	120.0	120.0	122.0	122.0
5.0	152,454,540.0	0.07	0.00	inf	inf	1,590.20	2.15	0.03	99.3	120.0	120.0	123.7	122.0
10.0	308,930,505.6	0.03	0.00	inf	inf	850.73	1.83	0.06	120.0	120.0	120.0	124.1	122.0
25.0	767,501,379.1	0.07	0.00	inf	inf	327.32	2.14	0.10	120.0	120.0	120.0	120.8	122.0
50.0	1,556,100,760.9	0.02	0.00	inf	inf	112.36	1.22	0.10	120.1	120.0	120.0	120.6	122.0
75.0	2,317,855,526.8	0.00	0.00	inf	inf	37.77	0.75	0.07	120.0	120.0	120.0	120.9	122.0
90.0	2,729,925,869.9	0.00	0.00	inf	inf	13.87	0.17	0.07	120.1	120.0	120.0	120.7	122.0
95.0	2,852,413,656.9	0.05	0.00	inf	inf	7.50	0.10	0.07	120.1	120.0	120.0	120.8	122.0
Avg		0.03	0.00	inf	inf	778.87	1.30	0.08	110.8	120.0	120.0	121.7	122.0
Min		0.00	0.00	inf	inf	7.50	0.10	0.03	66.9	120.0	120.0	120.6	122.0
Max		0.07	0.00	inf	inf	3,291.19	2.15	0.14	120.1	120.0	120.0	124.1	122.0

*The contribution in this paper

QKBP-specific information	Value
Number of breakpoints	12
Running time in seconds for writing input file (t^{write})	15.0
Running time in seconds for executing parametric cut procedure (t^{cut})	2.0
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_2000_075.txt

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	75.0 %
Edges (m)	1,499,336

γ	Best OFV	Deviation from best OFV (%)						Running time (s)					
		QKBP*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	111,777,087.1	0.26	0.00	inf	inf	3,161.04	3.29	0.13	65.4	120.0	120.0	123.0	120.0
5.0	227,586,687.5	0.00	0.00	inf	inf	1,674.65	3.22	0.03	96.7	120.0	120.0	120.9	120.0
10.0	463,811,780.0	0.04	0.00	inf	inf	913.33	2.68	0.05	120.0	120.0	120.0	121.8	120.0
25.0	1,151,478,894.8	0.03	0.00	inf	inf	309.16	2.91	0.10	120.1	120.0	120.0	121.0	120.0
50.0	2,308,727,831.2	0.00	0.00	inf	inf	111.00	2.46	0.09	120.1	120.0	120.0	122.8	120.0
75.0	3,422,995,480.4	0.05	0.00	inf	inf	38.39	0.99	0.07	120.1	120.0	120.0	121.2	120.0
90.0	4,024,243,092.5	0.02	0.00	inf	inf	13.78	0.29	0.07	120.1	120.0	120.0	121.2	120.0
95.0	4,198,910,746.6	0.00	0.00	inf	inf	5.71	0.08	0.07	120.2	120.0	120.0	122.0	120.0
Avg		0.05	0.00	inf	inf	778.38	1.99	0.08	110.3	120.0	120.0	121.7	120.0
Min		0.00	0.00	inf	inf	5.71	0.08	0.03	65.4	120.0	120.0	120.9	120.0
Max		0.26	0.00	inf	inf	3,161.04	3.29	0.13	120.2	120.0	120.0	123.0	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})	18.8
Running time in seconds for executing parametric cut procedure (t^{cut})	2.6
Running time in seconds for reading result file (t^{read})	0.0

File dispersion-qkp-wgeo_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*	GR	DP	QK	Gurobi	Hexaly	QKBP*	GR	DP	QK	Gurobi	Hexaly
2.5	146,032,229.0	0.25	0.00	inf	inf	2,910.50	3.90	0.14	73.5	120.0	120.0	121.3	120.0
5.0	298,463,595.0	0.00	0.00	inf	inf	1,848.74	3.28	0.03	109.3	120.0	120.0	122.7	120.0
10.0	610,589,901.0	0.04	0.00	inf	inf	927.61	3.64	0.06	120.1	120.0	120.0	124.1	120.0
25.0	1,552,122,124.4	0.03	0.00	inf	inf	316.28	3.18	0.11	120.0	120.0	120.0	122.5	120.0
50.0	3,108,906,506.1	0.00	0.00	inf	inf	107.83	2.21	0.08	120.0	120.0	120.0	122.7	120.0
75.0	4,618,504,994.4	0.00	0.00	inf	inf	38.83	1.00	0.07	120.1	120.0	120.0	123.4	120.0
90.0	5,435,578,205.5	0.02	0.00	inf	inf	13.26	0.42	0.07	120.0	120.0	120.0	121.3	120.0
95.0	5,676,339,787.3	0.01	0.00	inf	inf	6.57	0.12	0.07	120.0	120.0	120.0	123.0	120.0
Avg		0.04	0.00	inf	inf	771.20	2.22	0.08	112.9	120.0	120.0	122.6	120.0
Min		0.00	0.00	inf	inf	6.57	0.12	0.03	73.5	120.0	120.0	121.3	120.0
Max		0.25	0.00	inf	inf	2,910.50	3.90	0.14	120.1	120.0	120.0	124.1	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})	24.3
Running time in seconds for executing parametric cut procedure (t^{cut})	3.4
Running time in seconds for reading result file (t^{read})	0.0