Results for instances from collection Large-QKP

$File~qkp_new_00500_005_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	5.0 %
Edges (m)	6,264

		Running time (s)															
γ	Best OFV \mid	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	9,872.0	0.79	1.18	0.00		13.56		0.00	0.00	0.00	0.9	4.2	120.0	34.8	120.0	0.4	30.0
5.0	19,063.0	0.65	0.22	0.16	_	37.21		0.00	0.00	0.00	1.5	2.6	120.0	40.6	120.0	0.9	30.0
10.0	36,992.0	0.42	0.24	0.00	_	63.77	_	0.00	0.00	0.00	$^{2.3}$	7.4	120.0	52.5	120.0	0.7	28.0
25.0	88,799.0	0.10	0.10	0.00	_	58.27	_	0.00	0.00	0.01	3.7	10.1	120.0	74.2	120.0	1.3	43.0
50.0	170,578.0	0.29	0.08	0.00	_	44.39	_	0.00	0.01	0.01	5.2	5.8	120.0	51.0	120.0	5.0	120.0
75.0	249,961.0	0.02	0.00	0.00	_	20.55	_	0.00	0.00	0.00	6.4	3.8	120.0	32.9	120.0	0.9	43.0
Avg		0.38	0.30	0.03	_	39.62	_	0.00	0.00	0.01	3.3	5.7	120.0	47.7	120.0	1.5	49.0
Min		0.02	0.00	0.00	_	13.56	_	0.00	0.00	0.00	0.9	2.6	120.0	32.9	120.0	0.4	28.0
$_{\text{Max}}$		0.79	1.18	0.16	_	63.77	_	0.00	0.01	0.01	6.4	10.1	120.0	74.2	120.0	5.0	120.0

QKBP-specific information	Value
Number of breakpoints	21
Running time in seconds for writing input file (t^{write})	0.0109
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0310
Running time in seconds for reading result file (t^{read})	0.0094

$File~qkp_new_00500_010_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	10.0 %
Edges (m)	12,651

		Running time (s)															
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	18,802.0	0.78	0.23	0.00	_	111.05	_	0.00	0.00	0.00	1.1	1.7	120.0	21.9	120.0	1.3	41.0
5.0	36,217.0	0.42	0.03	0.02	_	140.23	_	0.00	0.00	0.00	1.7	4.3	120.0	31.9	120.0	1.9	64.0
10.0	69,911.0	0.00	0.09	0.00	_	130.29	_	0.00	0.01	0.01	$^{2.4}$	9.7	120.0	45.8	120.0	3.7	120.0
25.0	170,431.0	0.01	0.04	0.00	_	105.73	_	0.00	0.02	0.01	4.0	9.7	120.0	66.7	120.0	4.3	120.0
50.0	333,169.0	0.12	0.00	0.00	_	55.95	_	0.00	0.08	0.01	5.5	7.0	120.0	38.9	120.0	12.8	120.0
75.0	494,737.0	0.15	0.04	0.00	_	22.59	_	0.00	0.01	0.00	6.6	4.0	120.0	33.4	120.0	3.8	120.0
Avg	1	0.25	0.07	0.00		94.31		0.00	0.02	0.01	3.6	6.1	120.0	39.8	120.0	4.6	97.5
Min		0.00	0.00	0.00		22.59	_	0.00	0.00	0.00	1.1	1.7	120.0	21.9	120.0	1.3	41.0
Max		0.78	0.23	0.02	_	140.23	_	0.00	0.08	0.01	6.6	9.7	120.0	66.7	120.0	12.8	120.0

QKBP-specific information	Value
Number of breakpoints	18
Running time in seconds for writing input file (t^{write})	0.0209
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0150
Running time in seconds for reading result file (t^{read})	0.0087

$File~qkp_new_00500_015_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	15.0 %
Edges (m)	18,817

Deviation from best OFV $(\%)$												I	Running	g time	(s)		
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	25,487.0	0.20	0.20	0.00	_	186.15	_	0.00	0.00	0.00	1.1	6.2	120.0	19.0	120.0	4.0	120.0
5.0	49,240.0	0.02	0.02	0.00	_	239.73	_	0.00	0.06	0.00	1.7	7.7	120.0	25.5	120.0	20.9	120.0
10.0	96,148.0	0.16	0.13	0.00	_	225.32	_	0.00	0.03	0.01	2.4	6.4	120.0	43.0	120.0	51.0	120.0
25.0	239,691.0	0.04	0.03	0.00	_	149.58	_	0.00	0.07	0.01	3.9	9.6	120.0	64.4	120.0	120.5	120.0
50.0	484,722.0	0.04	0.02	0.00	_	71.13	_	0.00	0.17	0.01	5.4	6.1	120.0	39.5	120.0	32.9	120.0
75.0	721,536.0	0.05	0.02	0.00	_	28.26	_	0.00	0.51	0.01	6.5	3.0	120.0	31.1	120.0	19.0	120.0
Avg		0.09	0.07	0.00	_	150.03	_	0.00	0.14	0.01	3.5	6.5	120.0	37.1	120.0	41.4	120.0
Min		0.02	0.02	0.00	_	28.26		0.00	0.00	0.00	1.1	3.0	120.0	19.0	120.0	4.0	120.0
Max		0.20	0.20	0.00	_	239.73	_	0.00	0.51	0.01	6.5	9.6	120.0	64.4	120.0	120.5	120.0

QKBP-specific information	Value
Number of breakpoints	11
Running time in seconds for writing input file (t^{write})	0.0285
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0310
Running time in seconds for reading result file (t^{read})	0.0089

$File~qkp_new_00500_020_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	20.0 %
Edges (m)	24,985

	Deviation from best OFV (%)														()		
				ł	Running	g time	(s)										
γ	Best OFV \mid	QKBP	RG	IHEA	LDP	DP	QK	${\rm Gurobi}$	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	29,349.0	0.15	0.06	0.00	_	298.06	_	0.00	0.00	0.01	1.1	6.0	120.0	16.1	120.0	72.3	120.0
5.0	60,711.0	0.15	0.00	0.00	_	278.33	_	0.00	0.11	0.00	1.7	2.1	120.0	27.4	120.0	118.7	120.0
10.0	125,341.0	0.31	0.08	0.00	_	296.98	_	0.00	0.06	0.01	2.5	9.5	120.0	43.1	120.0	120.5	120.0
25.0	322,736.0	0.31	0.02	0.00	_	169.27	_	0.00	0.36	0.01	4.0	10.5	120.0	57.7	120.0	61.0	120.0
50.0	647,981.0	0.01	0.00	0.00	_	98.14		0.00	0.50	0.01	5.5	8.5	120.0	33.3	120.0	62.3	120.0
75.0	967,916.0	0.25	0.02	0.00	_	33.54	_	0.00	0.39	0.01	6.6	4.1	120.0	29.8	120.0	56.8	120.0
Avg		0.20	0.03	0.00	_	195.72	_	0.00	0.24	0.01	3.6	6.8	120.0	34.6	120.0	81.9	120.0
Min		0.01	0.00	0.00	_	33.54	_	0.00	0.00	0.00	1.1	2.1	120.0	16.1	120.0	56.8	120.0
Max		0.31	0.08	0.00	_	298.06	_	0.00	0.50	0.01	6.6	10.5	120.0	57.7	120.0	120.5	120.0

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	0.0390
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0310
Running time in seconds for reading result file (t^{read})	0.0089

$File~qkp_new_00500_025_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	25.0%
Edges (m)	31,340

		n best O	Running time (s)														
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	42,938.0	0.48	0.00	0.00	_	613.37	_	0.00	0.00	0.00	1.2	2.6	120.0	13.0	120.0	19.6	120.0
5.0	83,387.0	0.02	0.00	0.00	_	369.42	_	0.00	0.15	0.01	1.8	2.8	120.0	26.6	120.0	54.2	120.0
10.0	165,327.0	0.20	0.03	0.00	_	309.85	_	0.00	0.06	0.01	2.5	9.4	120.0	43.4	120.0	55.2	120.0
25.0	412,548.0	0.32	0.08	0.00	_	172.66	_	0.00	0.58	0.01	4.0	10.7	120.0	61.3	120.0	120.0	120.0
50.0	810,158.0	0.00	0.00	0.00	_	94.02	_	0.00	1.02	0.01	5.6	5.3	120.0	34.5	120.0	97.3	120.0
75.0	1,201,152.0	0.15	0.05	0.00	_	37.70	_	0.00	0.73	0.01	6.6	4.3	120.0	28.3	120.0	88.8	120.0
Avg		0.19	0.03	0.00	_	266.17	_	0.00	0.42	0.01	3.6	5.8	120.0	34.5	120.0	72.5	120.0
Min		0.00	0.00	0.00	_	37.70	_	0.00	0.00	0.00	1.2	2.6	120.0	13.0	120.0	19.6	120.0
Max		0.48	0.08	0.00	_	613.37	_	0.00	1.02	0.01	6.6	10.7	120.0	61.3	120.0	120.0	120.0

QKBP-specific information	Value
Number of breakpoints	8
Running time in seconds for writing input file (t^{write})	0.0494
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0310
Running time in seconds for reading result file (t^{read})	0.0096

$File~qkp_new_00500_050_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	50.0 %
Edges (m)	62,414

	Deviation from best OFV $(\%)$											Running time (s)								
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly			
2.5	77,155.0	0.31	0.07	0.00		670.47	_	0.00	0.07	0.01	1.2	2.3	120.0	15.9	120.0	120.0	120.0			
5.0	163,173.0	0.75	0.20	0.00	_	500.54	_	0.00	0.55	0.00	1.7	2.2	120.0	30.2	120.0	120.0	120.0			
10.0	322,656.0	0.00	0.00	0.00	_	337.47	_	0.00	0.82	0.01	2.4	10.7	120.0	43.5	120.0	94.7	120.0			
25.0	790,406.0	0.27	0.06	0.00	_	180.66	_	0.51	1.94	0.01	3.8	9.2	120.0	49.3	120.0	120.0	120.0			
50.0	1,592,437.0	0.12	0.07	0.00	_	64.41	_	0.02	1.09	0.01	5.3	7.5	120.0	37.5	120.0	120.1	120.0			
75.0	2,384,171.0	0.39	0.01	0.00	_	28.04	_	0.00	1.03	0.00	6.6	4.7	120.0	28.2	120.0	120.0	120.0			
Avg		0.31	0.07	0.00	_	296.93	_	0.09	0.92	0.01	3.5	6.1	120.0	34.1	120.0	115.8	120.0			
Min		0.00	0.00	0.00	_	28.04	_	0.00	0.07	0.00	1.2	2.2	120.0	15.9	120.0	94.7	120.0			
Max		0.75	0.20	0.00	_	670.47	_	0.51	1.94	0.01	6.6	10.7	120.0	49.3	120.0	120.1	120.0			

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	0.0933
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0310
Running time in seconds for reading result file (t^{read})	0.0096

$File~qkp_new_00500_075_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	75.0 %
Edges (m)	93,683

Deviation from best OFV (%)												Running time (s)								
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly			
2.5	105,428.0	0.00	0.00	0.00	_	915.98	_	1,584.96	2.38	0.01	1.1	5.5	120.0	16.0	120.0	120.1	120.0			
5.0	219,169.0	1.31	0.00	0.00	_	639.56	_	1,121.41	1.22	0.00	1.6	10.8	120.0	28.5	120.0	120.1	120.0			
10.0	459,189.0	0.41	0.15	0.00	_	558.99	_	1.53	1.31	0.01	$^{2.4}$	8.3	120.0	40.5	120.0	120.1	120.0			
25.0	1,196,839.0	0.39	0.21	0.00	_	285.58	_	0.30	2.14	0.01	3.9	9.8	120.0	36.5	120.0	120.0	120.0			
50.0	2,376,553.0	0.35	0.27	0.00	_	112.61	_	12.80	2.35	0.01	5.3	7.2	120.0	28.1	120.0	120.1	120.0			
75.0	3,549,102.0	0.20	0.17	0.00	_	39.88	_	8.67	1.43	0.01	6.4	4.5	120.0	28.3	120.0	120.1	120.0			
Avg	I	0.44	0.13	0.00	_	425.43	_	454.95	1.80	0.01	3.5	7.7	120.0	29.7	120.0	120.1	120.0			
$\overline{\mathrm{Min}}$		0.00	0.00	0.00	_	39.88	_	0.30	1.22	0.00	1.1	4.5	120.0	16.0	120.0	120.0	120.0			
Max		1.31	0.27	0.00	_	915.98	_	$1,\!584.96$	2.38	0.01	6.4	10.8	120.0	40.5	120.0	120.1	120.0			

QKBP-specific information	Value
Number of breakpoints	4
Running time in seconds for writing input file (t^{write})	0.1418
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0310
Running time in seconds for reading result file (t^{read})	0.0086

$File~qkp_new_00500_100_0.txt$

Property of graph	Value
Nodes (n)	500
Density (Δ)	100.0 %
Edges (m)	125,250

	Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
2.5	168,983.0	0.83	0.18	0.00		820.64		1,456.44	3.28	0.01	1.2	2.2	120.0	17.9	120.0	120.1	120.0		
5.0	353,472.0	0.68	0.52	0.00	_	1,059.53	_	0.16	1.15	0.00	1.8	2.8	120.0	23.2	120.0	120.1	120.0		
10.0	703,693.0	0.00	0.00	0.00	_	548.71	_	0.34	1.28	0.01	2.7	9.8	120.0	42.8	120.0	120.2	120.0		
25.0	1,712,274.0	0.25	0.18	0.00	_	238.26	_	36.66	1.71	0.00	4.0	8.0	120.0	45.6	120.0	120.1	120.0		
50.0	3,257,240.0	0.04	0.03	0.00	_	91.23	_	29.96	3.03	0.01	5.6	3.2	120.0	36.5	120.0	120.1	120.0		
75.0	4,792,386.0	0.16	0.15	0.00	_	23.73	_	12.99	1.91	0.01	7.4	4.2	120.0	41.4	120.0	120.1	120.0		
Avg		0.33	0.18	0.00	_	463.68	_	256.09	2.06	0.01	3.8	5.1	120.0	34.6	120.0	120.1	120.0		
Min		0.00	0.00	0.00	_	23.73	_	0.16	1.15	0.00	1.2	2.2	120.0	17.9	120.0	120.1	120.0		
Max		0.83	0.52	0.00	_	1,059.53	_	$1,\!456.44$	3.28	0.01	7.4	9.8	120.0	45.6	120.0	120.2	120.0		

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	0.2141
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0470
Running time in seconds for reading result file (t^{read})	0.0100

$File~qkp_new_01000_005_0.txt$

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	5.0 %
Edges (m)	25,060

Deviation from best OFV (%)												I	Runnin	g time	(s)		
<u>γ</u>	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	30,060.0	0.32	0.55	0.00	_	_	_	0.00	0.72	0.01	6.8	11.7	120.0	120.0	120.0	120.1	120.0
5.0	60,794.0	0.14	0.12	0.00	_	_	_	0.03	0.08	0.01	10.0	11.9	120.0	120.0	120.0	120.7	120.0
10.0	123,246.0	0.16	0.14	0.00	_	_	_	0.46	0.16	0.01	14.7	11.6	120.0	120.0	120.0	120.6	120.0
25.0	317,319.0	0.05	0.02	0.00	_	_	_	1.00	0.15	0.03	24.7	18.6	120.0	120.0	120.0	146.0	120.0
50.0	644,364.0	0.04	0.01	0.00	_	_	_	0.00	0.11	0.03	36.0	12.0	120.0	120.0	120.0	63.5	120.0
75.0	968,148.0	0.08	0.01	0.00	_	_	_	0.00	0.32	0.02	42.7	9.1	120.0	120.0	120.0	13.0	120.0
Avg		0.13	0.14	0.00	_	_	_	0.25	0.26	0.02	22.5	12.5	120.0	120.0	120.0	97.3	120.0
Min		0.04	0.01	0.00	_	_	_	0.00	0.08	0.01	6.8	9.1	120.0	120.0	120.0	13.0	120.0
Max		0.32	0.55	0.00	_	_	_	1.00	0.72	0.03	42.7	18.6	120.0	120.0	120.0	146.0	120.0

QKBP-specific information	Value
Number of breakpoints	16
Running time in seconds for writing input file (t^{write})	0.0455
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0780
Running time in seconds for reading result file (t^{read})	0.0115

$File~qkp_new_01000_010_0.txt$

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	10.0 %
Edges (m)	50,148

	Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
2.5	57,178.0	0.12	0.18	0.00	_	_	_	5.96	0.12	0.01	7.5	9.6	120.0	120.0	120.0	120.1	120.0		
5.0	119,109.0	0.09	0.00	0.00	_	_	_	4.71	0.34	0.01	10.8	7.4	120.0	120.0	120.0	120.6	120.0		
10.0	244,891.0	0.07	0.05	0.00	_	_	_	2.68	0.28	0.01	15.8	23.6	120.0	120.0	120.0	120.2	120.0		
25.0	623,926.0	0.04	0.01	0.00	_	_		3.19	0.20	0.02	26.1	12.6	120.0	120.0	120.0	120.4	120.0		
50.0	1,269,383.0	0.10	0.02	0.00	_	_	_	1.55	0.38	0.02	36.6	9.5	120.0	120.0	120.0	120.1	120.0		
75.0	1,919,905.0	0.07	0.00	0.00	_	_	_	0.03	0.71	0.02	48.4	8.9	120.0	120.0	120.0	120.3	120.0		
Avg		0.08	0.04	0.00	_	_	_	3.02	0.34	0.02	24.2	11.9	120.0	120.0	120.0	120.3	120.0		
Min		0.04	0.00	0.00	_	_	_	0.03	0.12	0.01	7.5	7.4	120.0	120.0	120.0	120.1	120.0		
Max		0.12	0.18	0.00	_	_	_	5.96	0.71	0.02	48.4	23.6	120.0	120.0	120.0	120.6	120.0		

QKBP-specific information	Value
Number of breakpoints	6
Running time in seconds for writing input file (t^{write})	0.1264
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0930
Running time in seconds for reading result file (t^{read})	0.0105

$File~qkp_new_01000_015_0.txt$

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	15.0 %
Edges (m)	75,292

	Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA		DP	QK	` '	Hexaly	QKBP	RG		LDP	DP	` /	Gurobi	Hexaly		
2.5 5.0 10.0 25.0 50.0 75.0	92,547.0 189,943.0 384,820.0 970,417.0 1,930,029.0 2,880,251.0	0.48 0.08 0.05 0.00 0.00	0.15 0.08 0.00 0.00 0.01 0.00	0.00 0.00 0.00 0.00 0.00				0.43 3.35 2.46 0.21 0.12 0.05	0.80 0.25 0.39 0.35 1.19 0.74		17.3 27.3 39.0	9.9 8.9 24.4 22.2 11.3 8.6	120.0 120.0 120.0 120.0 120.0 120.0	120.0 120.0 120.0 120.0 120.0 120.0	120.0 120.0 120.0 120.0 120.0 120.0	120.1 120.0 120.0 120.1 120.1 120.2 120.1	120.0 120.0 120.0 120.0 120.0 120.0		
Avg Min Max	2,000,201.0	0.03 0.11 0.00 0.48	0.04 0.00 0.15	0.00 0.00 0.00	_			1.10 0.05 3.35	0.62 0.25 1.19	0.02 0.01 0.02		14.2 8.6 24.4	120.0 120.0 120.0 120.0	120.0 120.0 120.0 120.0	120.0 120.0 120.0 120.0	120.1 120.0 120.2	120.0 120.0 120.0 120.0		

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	0.1261
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0940
Running time in seconds for reading result file (t^{read})	0.0105

$File~qkp_new_01000_020_0.txt$

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	20.0 %
Edges (m)	100,094

		Running time (s)															
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5 5.0	122,974.0 255,856.0	0.14 0.15	0.00	0.00 0.00	_	_	_	2,449.74 1,619.81	0.31 0.49	$0.02 \\ 0.01$	7.9 12.0	10.6 8.0	120.0 120.0	120.0 120.0	120.0 120.0	120.1 120.1	120.0 120.0
$10.0 \\ 25.0$	509,980.0 1,269,063.0	$0.06 \\ 0.23$	$0.03 \\ 0.03$	$\begin{array}{c} 0.00 \\ 0.00 \end{array}$	_	_	_	$\frac{2.01}{34.06}$	$0.29 \\ 0.81$	0.02		$14.8 \\ 18.2$	$120.0 \\ 120.0$	$120.0 \\ 120.0$	$120.0 \\ 120.0$	120.1 120.1	120.0 120.0
50.0 75.0	2,537,611.0 3,822,995.0	0.18 0.11	0.00 0.01	0.00	_	_	_	30.31 14.75	1.43 1.04	$0.02 \\ 0.02$		12.2 9.1	120.0 120.0	$120.0 \\ 120.0$	$120.0 \\ 120.0$	120.1 120.1	120.0 120.0
Avg Min Max		0.14 0.06 0.23	0.01 0.00 0.03	$0.00 \\ 0.00 \\ 0.00$	=	_	_	$691.78 \\ 2.01 \\ 2,449.74$	$0.73 \\ 0.29 \\ 1.43$	$0.02 \\ 0.01 \\ 0.02$	$24.0 \\ 7.9 \\ 43.5$	12.1 8.0 18.2	$120.0 \\ 120.0 \\ 120.0$	$120.0 \\ 120.0 \\ 120.0$	$120.0 \\ 120.0 \\ 120.0$	$120.1 \\ 120.1 \\ 120.1$	$120.0 \\ 120.0 \\ 120.0$

QKBP-specific information	Value
Number of breakpoints	6
Running time in seconds for writing input file (t^{write})	0.1696
Running time in seconds for executing parametric cut procedure (t^{cut})	0.0930
Running time in seconds for reading result file (t^{read})	0.0103

$File~qkp_new_01000_025_0.txt$

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	25.0 %
Edges (m)	124,986

Deviation from best OFV (%)											Running time (s)								
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
2.5	139,522.0	0.00	0.00	0.00	_	_	_	2,106.93	0.51	0.02	7.4	6.2	120.0	120.0	120.0	120.1	120.0		
5.0	284,394.0	0.00	0.00	0.00	_	_	_	1,310.54	0.69	0.01	10.8	8.5	120.0	120.0	120.0	120.1	120.0		
10.0	584,057.0	0.01	0.00	0.00	_	_	_	681.94	0.58	0.01	15.7	20.5	120.0	120.0	120.0	120.1	120.0		
25.0	1,498,980.0	0.21	0.02	0.00	_	_	_	285.77	1.25	0.02	24.9	29.6	120.0	120.0	120.0	120.1	120.0		
50.0	3,081,295.0	0.00	0.01	0.00	_	_	_	103.70	2.13	0.02	35.2	10.7	120.0	120.0	120.0	120.1	120.0		
75.0	4,702,828.0	0.00	0.00	0.00	_	_	_	29.72	1.27	0.02	41.8	9.2	120.0	120.0	120.0	120.2	120.0		
Avg		0.04	0.01	0.00	_	_	_	753.10	1.07	0.02	22.6	14.1	120.0	120.0	120.0	120.1	120.0		
Min		0.00	0.00	0.00	_	_	_	29.72	0.51	0.01	7.4	6.2	120.0	120.0	120.0	120.1	120.0		
$_{\text{Max}}$		0.21	0.02	0.00	_	_	_	$2,\!106.93$	2.13	0.02	41.8	29.6	120.0	120.0	120.0	120.2	120.0		

QKBP-specific information	Value
Number of breakpoints	4
Running time in seconds for writing input file (t^{write})	0.2014
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1100
Running time in seconds for reading result file (t^{read})	0.0110

$File~qkp_new_01000_050_0.txt$

Property of graph	Value
Nodes (n)	1,000
Density (Δ)	50.0 %
Edges (m)	250,104

Deviation from best OFV (%)											Running time (s)								
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
50.0	282,148.0 590,377.0 1,189,591.0 3,071,469.0 6,288,440.0 9,479,582.0	0.62 0.00 0.00 0.04		0.00 0.00 0.00 0.00 0.00				2,621.33 1,544.96 717.99 261.63 92.71 29.72	0.90 1.53 1.86 3.38 2.96 1.90			7.2 16.0 25.0 23.7 10.7 9.0	120.0 120.0 120.0 120.0 120.0 120.0	120.0 120.0 120.0 120.0 120.0 120.0	120.0 120.0 120.0 120.0 120.0 120.0	120.1 120.2 120.2 120.2 120.2 120.2	120.0 120.0 120.0 120.0 120.0 120.0		
Avg Min Max	0,110,002.0	0.14 0.00 0.62	0.00 0.00 0.01	0.00 0.00 0.00		_	_	878.06 29.72 2,621.33	2.09 0.90 3.38	0.02 0.01 0.02		15.3 7.2 25.0	120.0 120.0 120.0	120.0 120.0 120.0	120.0 120.0 120.0	120.2 120.1 120.2	120.0 120.0 120.0		

QKBP-specific information	Value
Number of breakpoints	4
Running time in seconds for writing input file (t^{write})	0.4269
Running time in seconds for executing parametric cut procedure (t^{cut})	0.1100
Running time in seconds for reading result file (t^{read})	0.0113

$File~qkp_new_02000_005_0.txt$

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	5.0 %
Edges (m)	99,846

		best	Running time (s)														
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	114,908.0	0.31	0.15	0.00	_	_	_	1,264.38	0.82	0.12	54.4	32.8	120.0	120.0	120.0	120.1	120.0
5.0	235,199.0	0.22	0.09	0.00	_	_	_	1,097.73	0.37	0.03	83.7	42.0	120.0	120.0	120.0	120.1	120.0
10.0	485,499.0	0.01	0.01	0.00	_	_	_	672.55	0.31	0.05	112.6	31.9	120.0	120.0	120.0	120.1	120.0
25.0	1,230,052.0	0.06	0.02	0.00	_	_	_	2.78	0.37	0.09	120.1	70.2	120.0	120.0	120.0	120.1	120.0
50.0	2,491,034.0	0.02	0.02	0.00	_	_		13.38	0.80	0.11	120.0	40.2	120.0	120.0	120.0	120.1	120.0
75.0	3,789,519.0	0.02	0.00	0.00	_	_	_	8.99	0.77	0.10	120.1	34.2	120.0	120.0	120.0	120.1	120.0
Avg	I	0.11	0.05	0.00	_	_	_	509.97	0.57	0.08	101.8	41.9	120.0	120.0	120.0	120.1	120.0
Min		0.01	0.00	0.00	_	_	_	2.78	0.31	0.03	54.4	31.9	120.0	120.0	120.0	120.1	120.0
$_{\rm Max}$		0.31	0.15	0.00	_	_	_	$1,\!264.38$	0.82	0.12	120.1	70.2	120.0	120.0	120.0	120.1	120.0

QKBP-specific information	Value
Number of breakpoints	8
Running time in seconds for writing input file (t^{write})	0.1683
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2030
Running time in seconds for reading result file (t^{read})	0.0128

$File~qkp_new_02000_010_0.txt$

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	10.0 %
Edges (m)	200,235

	Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
2.5	228,845.0	0.15	0.00	0.00		_		2,324.46	0.62	0.12	50.9	35.9	120.0	120.0	120.0	120.2	120.0		
5.0	472,216.0	0.21	0.01	0.00	_	_	_	1,540.21	0.71	0.03	77.7	45.7	120.0	120.0	120.0	120.6	120.0		
10.0	981,426.0	0.00	0.01	0.00	_	_	_	713.29	0.61	0.05	116.4	61.6	120.0	120.0	120.0	122.4	120.0		
25.0	2,511,153.0	0.01	0.01	0.00	_	_	_	256.97	1.25	0.09	120.0	42.2	120.0	120.0	120.0	122.5	120.0		
50.0	5,066,831.0	0.06	0.01	0.00	_	_	_	91.75	1.64	0.10	120.0	39.3	120.0	120.0	120.0	121.5	120.0		
75.0	7,625,072.0	0.04	0.01	0.00	_	_	_	30.16	1.24	0.09	120.1	35.8	120.0	120.0	120.0	121.1	120.0		
Avg		0.08	0.01	0.00	_	_	_	826.14	1.01	0.08	100.8	43.4	120.0	120.0	120.0	121.4	120.0		
Min		0.00	0.00	0.00	_	_		30.16	0.61	0.03	50.9	35.8	120.0	120.0	120.0	120.2	120.0		
Max		0.21	0.01	0.00	_	_	_	2,324.46	1.64	0.12	120.1	61.6	120.0	120.0	120.0	122.5	120.0		

QKBP-specific information	Value
Number of breakpoints	7
Running time in seconds for writing input file (t^{write})	0.3380
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2030
Running time in seconds for reading result file (t^{read})	0.0123

$File~qkp_new_02000_015_0.txt$

Property of graph	Value
Nodes (n)	2,000
Density (Δ)	15.0 %
Edges (m)	300,499

		Running time (s)															
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	331,280.0	0.11	0.03	0.00	_	_	_	3,396.73	1.40	0.12	56.9	34.7	120.0	120.0	120.0	120.6	120.0
5.0	690,840.0	0.06	0.01	0.00	_	_	_	1,668.26	1.14	0.03	82.2	40.5	120.0	120.0	120.0	120.4	120.0
10.0	1,430,674.0	0.09	0.01	0.00	_	_	_	838.10	1.64	0.05	117.5	70.5	120.0	120.0	120.0	120.3	120.0
25.0	3,672,378.0	0.11	0.00	0.00	_	_	_	278.08	2.37	0.09	120.0	74.8	120.0	120.0	120.0	125.3	120.0
50.0	7,536,423.0	0.00	0.00	0.00	_	_	_	94.76	2.27	0.10	120.1	43.3	120.0	120.0	120.0	125.8	120.0
75.0	11,359,372.0	0.01	0.00	0.00	_	_	_	35.21	1.53	0.10	120.1	37.6	120.0	120.0	120.0	126.3	120.0
Avg		0.06	0.01	0.00	_	_	_	1,051.86	1.72	0.08	102.8	50.2	120.0	120.0	120.0	123.1	120.0
$\overline{\mathrm{Min}}$		0.00	0.00	0.00	_	_	_	35.21	1.14	0.03	56.9	34.7	120.0	120.0	120.0	120.3	120.0
$_{\text{Max}}$		0.11	0.03	0.00	_	_	_	$3,\!396.73$	2.37	0.12	120.1	74.8	120.0	120.0	120.0	126.3	120.0

QKBP-specific information	Value
Number of breakpoints	4
Running time in seconds for writing input file (t^{write})	0.5110
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2350
Running time in seconds for reading result file (t^{read})	0.0129

$File~qkp_new_02000_020_0.txt$

Property of graph	Value
Nodes (n)	2,000
Density (Δ) Edges (m)	20.0 % 400,766

		Running time (s)															
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	486,094.0	0.24	0.01	0.00		_	_	2,439.94	2.09	0.12	54.6	42.9	120.0	120.0	120.0	120.5	121.0
5.0	976,759.0	0.11	0.08	0.00	_	_	_	1,417.72	1.82	0.03	81.9	33.0	120.0	120.0	120.0	125.6	120.0
10.0	1,958,290.0	0.10	0.02	0.00	_	_	_	813.61	2.15	0.05	120.0	68.2	120.0	120.0	120.0	120.2	120.0
25.0	4,938,228.0	0.00	0.00	0.00	_	_	_	271.03	2.81	0.09	120.0	85.9	120.0	120.0	120.0	126.8	120.0
50.0	9,944,933.0	0.08	0.05	0.00	_	_	_	90.69	3.26	0.11	120.0	43.9	120.0	120.0	120.0	124.6	120.0
75.0	15,055,117.0	0.02	0.01	0.00	_	_	_	32.41	2.31	0.11	120.0	35.1	120.0	120.0	120.0	120.8	120.0
Avg		0.09	0.03	0.00	_	_	_	844.23	2.41	0.08	102.8	51.5	120.0	120.0	120.0	123.1	120.2
Min		0.00	0.00	0.00	_	_	_	32.41	1.82	0.03	54.6	33.0	120.0	120.0	120.0	120.2	120.0
Max		0.24	0.08	0.00	_	_	_	$2,\!439.94$	3.26	0.12	120.0	85.9	120.0	120.0	120.0	126.8	121.0

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	0.6666
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2500
Running time in seconds for reading result file (t^{read})	0.0130

$File~qkp_new_02000_025_0.txt$

Property of graph	Value
Nodes (n)	2,000
Density (Δ) Edges (m)	25.0 % $499,994$
Euges (m)	499,994

	Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
2.5	549,896.0	0.35	0.00	0.00		_	_	3,969.08	2.13	0.12	50.9	38.2	120.0	120.0	120.0	122.0	121.0		
5.0	1,154,066.0	0.04	0.01	0.00	_	_	_	1,648.29	2.60	0.03	78.8	45.6	120.0	120.0	120.0	120.6	121.0		
10.0	2,426,843.0	0.02	0.00	0.00	_	_	_	837.38	3.00	0.05	117.5	60.6	120.0	120.0	120.0	120.3	120.0		
25.0	6,249,462.0	0.00	0.00	0.00	_	_	_	293.21	3.69	0.10	120.0	81.7	120.0	120.0	120.0	120.3	121.0		
50.0	12,491,911.0	0.02	0.01	0.00	_	_	_	103.34	3.47	0.11	120.0	43.9	120.0	120.0	120.0	123.9	121.0		
75.0	18,869,258.0	0.01	0.00	0.00	_	_	_	34.72	2.12	0.11	120.1	39.5	120.0	120.0	120.0	126.2	121.0		
Avg		0.07	0.00	0.00	_	_	_	1,147.67	2.84	0.09	101.2	51.6	120.0	120.0	120.0	122.2	120.8		
Min		0.00	0.00	0.00	_	_	_	34.72	2.12	0.03	50.9	38.2	120.0	120.0	120.0	120.3	120.0		
Max		0.35	0.01	0.00	_	_	_	3,969.08	3.69	0.12	120.1	81.7	120.0	120.0	120.0	126.2	121.0		

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	0.8245
Running time in seconds for executing parametric cut procedure (t^{cut})	0.2650
Running time in seconds for reading result file (t^{read})	0.0129

$File~qkp_new_05000_005_0.txt$

Property of graph	Value
Nodes (n)	5,000
Density (Δ)	5.0 %
Edges (m)	625,366

		Running time (s)															
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	737,304.0	0.05	0.01	0.00		_	_	2,883.71	2.16	0.85	120.2	139.7	120.0	120.0	120.0	120.4	121.0
5.0	1,517,315.0	0.02	0.01	0.00	_	_	_	1,600.55	2.62	0.19	120.2	139.5	120.0	120.0	120.0	120.4	121.0
10.0	3,075,312.0	0.08	0.01	0.00	_	_	_	813.97	2.71	0.34	120.2	140.2	120.0	120.0	120.0	120.4	121.0
25.0	7,774,287.0	0.00	0.00	0.00	_	_	_	279.46	3.53	0.60	120.1	140.4	120.0	120.0	120.0	120.4	121.0
50.0	15,746,984.0	0.01	0.01	0.00	_	_	_	94.16	3.99	0.70	121.0	139.7	120.0	120.0	120.0	120.4	121.0
75.0	23,740,241.0	0.03	0.03	0.00	_	_	_	32.08	1.89	0.69	120.8	140.6	120.0	120.0	120.0	120.4	121.0
Avg		0.03	0.01	0.00	_	_	_	950.66	2.82	0.56	120.4	140.0	120.0	120.0	120.0	120.4	121.0
Min		0.00	0.00	0.00	_	_	_	32.08	1.89	0.19	120.1	139.5	120.0	120.0	120.0	120.4	121.0
$_{\text{Max}}$		0.08	0.03	0.00	_	_	_	2,883.71	3.99	0.85	121.0	140.6	120.0	120.0	120.0	120.4	121.0

QKBP-specific information	Value
Number of breakpoints	6
Running time in seconds for writing input file (t^{write})	1.0933
Running time in seconds for executing parametric cut procedure (t^{cut})	0.5940
Running time in seconds for reading result file (t^{read})	0.0224

$File~qkp_new_05000_010_0.txt$

Property of graph	Value
Nodes (n)	5,000
Density (Δ)	10.0 %
Edges (m)	1,250,329

		Running time (s)															
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly
2.5	1,476,621.0		0.02	0.00	_	_	_	3,328.18	5.15	0.88	120.2	141.9	120.0	120.0	120.0	120.8	122.0
5.0	3,043,242.0	0.00	0.00	0.00	_	_	_	1,701.66	5.78	0.20	120.1	142.2	120.0	120.0	120.0	120.9	122.0
10.0	6,209,043.0	0.00	0.00	0.00	_	_	_	895.90	5.25	0.36	120.3	142.9	120.0	120.0	120.0	121.0	122.0
25.0	15,702,880.0	0.01	0.00	0.00	_	_	_	305.63	6.39	0.63	120.2	140.9	120.0	120.0	120.0	121.7	123.0
50.0	31,583,225.0	0.04	0.03	0.00	_	_	_	101.24	6.28	0.73	120.8	143.1	120.0	120.0	120.0	121.1	125.0
75.0	$47,\!430,\!968.0$	0.00	0.00	0.00	_	_	_	34.83	2.83	0.71	120.4	143.2	120.0	120.0	120.0	121.9	124.0
Avg		0.01	0.01	0.00	_	_	_	1,061.24	5.28	0.58	120.3	142.4	120.0	120.0	120.0	121.2	123.0
Min		0.00	0.00	0.00	_	_	_	34.83	2.83	0.20	120.1	140.9	120.0	120.0	120.0	120.8	122.0
Max		0.04	0.03	0.00	_	_	_	$3,\!328.18$	6.39	0.88	120.8	143.2	120.0	120.0	120.0	121.9	125.0

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	2.2128
Running time in seconds for executing parametric cut procedure (t^{CU}	^{1t}) 0.7810
Running time in seconds for reading result file (t^{read})	0.0223

$File~qkp_new_05000_015_0.txt$

Property of graph	Value
Nodes (n)	5,000
Density (Δ)	15.0 %
Edges (m)	1,873,577

	Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly		
2.5	2,168,521.0	0.01	0.00	0.00	_		_	_	6.84	0.89	120.1	144.7	120.0	120.0	120.0	120.3	121.0		
5.0	4,471,055.0	0.02	0.02	0.00	_	_	_		6.40	0.20	120.3	144.6	120.0	120.0	120.0	120.3	121.0		
10.0	9,121,755.0	0.08	0.04	0.00	_	_	_	_	7.75	0.35	120.0	145.3	120.0	120.0	120.0	120.5	121.0		
25.0	23,256,039.0	0.02	0.02	0.00	_	_	_	_	9.11	0.60	120.3	143.3	120.0	120.0	120.0	120.3	123.0		
50.0	46,918,707.0	0.01	0.01	0.00	_		_	_	7.99	0.70	120.2	142.8	120.0	120.0	120.0	120.4	121.0		
75.0	70,862,287.0	0.03	0.02	0.00	_	_	_	_	3.66	0.75	120.5	142.7	120.0	120.0	120.0	120.7	122.0		
Avg		0.03	0.02	0.00	_	_	_	_	6.96	0.58	120.2	143.9	120.0	120.0	120.0	120.4	121.5		
Min		0.01	0.00	0.00	_		_	_	3.66	0.20	120.0	142.7	120.0	120.0	120.0	120.3	121.0		
Max		0.08	0.04	0.00	_	_	_	_	9.11	0.89	120.5	145.3	120.0	120.0	120.0	120.7	123.0		

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	3.3285
Running time in seconds for executing parametric cut procedure (t^{cut})	1.0620
Running time in seconds for reading result file (t^{read})	0.0230

$File~qkp_new_05000_020_0.txt$

Property of graph	Value
Nodes (n)	5,000
Density (Δ)	20.0 %
Edges (m)	2,500,402

Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	
2.5	2,887,319.0	0.00	0.00	0.00	_		_	_	6.88	0.83	120.0	146.0	120.0	120.0	120.0	120.4	120.0	
5.0	5,824,467.0	0.09	0.07	0.00	_	_	_		8.31	0.18	120.1	146.0	120.0	120.0	120.0	120.4	120.0	
10.0	11,835,556.0	0.06	0.04	0.00	_	_	_	_	8.46	0.33	120.2	145.3	120.0	120.0	120.0	120.4	120.0	
25.0	30,618,459.0	0.02	0.01	0.00	_	_	_	_	9.38	0.59	120.6	145.9	120.0	120.0	120.0	120.4	120.0	
50.0	62,344,564.0	0.00	0.04	0.00	_	_	_	_	8.22	0.69	120.3	147.2	120.0	120.0	120.0	120.4	120.0	
75.0	94,303,250.0	0.04	0.04	0.00	_	_	_	_	4.02	0.74	120.2	145.2	120.0	120.0	120.0	120.4	120.0	
Avg		0.03	0.03	0.00	_	_	_	_	7.54	0.56	120.2	145.9	120.0	120.0	120.0	120.4	120.0	
Min		0.00	0.00	0.00	_	_	_	_	4.02	0.18	120.0	145.2	120.0	120.0	120.0	120.4	120.0	
Max		0.09	0.07	0.00	_	_	_	_	9.38	0.83	120.6	147.2	120.0	120.0	120.0	120.4	120.0	

QKBP-specific information	Value
Number of breakpoints	3
Running time in seconds for writing input file (t^{write})	4.4920
Running time in seconds for executing parametric cut procedure (t^{cut})	1.0940
Running time in seconds for reading result file (t^{read})	0.0224

$File~qkp_new_10000_005_0.txt$

Property of graph	Value
Nodes (n)	10,000
Density (Δ)	5.0 %
Edges (m)	2,496,201

Deviation from best OFV (%)											Running time (s)							
γ	Best OFV	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	QKBP	RG	IHEA	LDP	DP	QK	Gurobi	Hexaly	
2.5	2,838,130.0	0.01	0.01	0.00	_	_	_	_	7.40	4.15	120.4	207.3	120.0	120.0	120.0	120.5	120.0	
5.0	5,922,475.0	0.00	0.00	0.00	_	_	_	_	7.49	0.76	120.9	204.8	120.0	120.0	120.0	120.5	120.0	
10.0	12,169,869.0	0.00	0.01	0.00	_	_	_	_	7.84	1.45	121.9	205.3	120.0	120.0	120.0	120.5	120.0	
25.0	30,848,899.0	0.01	0.00	0.00	_	_	_	_	8.58	2.53	120.4	203.3	120.0	120.0	120.0	120.5	120.0	
50.0	62,495,580.0	0.00	0.00	0.00	_	_	_	_	7.40	3.03	124.1	200.2	120.0	120.0	120.0	120.5	120.0	
75.0	$94,\!402,\!497.0$	0.00	0.02	0.00	_	_	_	_	3.65	3.18	122.0	207.7	120.0	120.0	120.0	120.5	120.0	
Avg		0.00	0.01	0.00	_	_	_	_	7.06	2.52	121.6	204.8	120.0	120.0	120.0	120.5	120.0	
Min		0.00	0.00	0.00	_	_	_	_	3.65	0.76	120.4	200.2	120.0	120.0	120.0	120.5	120.0	
$_{\text{Max}}$		0.01	0.02	0.00	_	_	_	_	8.58	4.15	124.1	207.7	120.0	120.0	120.0	120.5	120.0	

QKBP-specific information	Value
Number of breakpoints	5
Running time in seconds for writing input file (t^{write})	4.4425
Running time in seconds for executing parametric cut procedure (t^{cut})	1.5310
Running time in seconds for reading result file (t^{read})	0.0386