Appendix A: Instance Detail

Instance name	variable count	constraint count
QP_9048.lp	202	1
QP_9030.lp	10000	5000
QP_7164.lp	420	225
QP_7159.lp	364	196
QP_7154.lp	312	169
ÒP_7149.lp	264	144
QP_7144.lp	220	121
QP_7139.lp	180	100
QP_7127.lp	1000	50
QP_6941.lp	2203	315
QP_6799.lp	2075	297
QP_6764.lp	2071	297
QP_6757.lp	2046	297
QP_6647.lp	627	33
QP_6597.lp	600	60
QP_6487.lp	618	309
QP_6324.lp	640	16
QP_5980.lp	150	8381
QP_5971.lp	150	5587
QP_5962.lp	150	2793
QP_5944.lp	100	2475
QP_5935.lp	100	1237
QP_5922.lp	500	0
	250	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$
QP_5909.lp QP_5882.lp	150	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$
QP_5881.lp	120	
		0
QP_5875.lp	200	0
QP_5755.lp	400	0
QP_5725.lp	343	0
QP_5721.lp	300	0
QP_3980.lp	235	48
QP_3931.lp	316	80
QP_3923.lp	395	80
QP_3913.lp	300	61
QP_3883.lp	182	1456
QP_3877.lp	630	$\begin{bmatrix} 0 \\ 50 \end{bmatrix}$
QP_3865.lp	525	50
QP_3860.lp	435	8120
QP_3852.lp	231	0
QP_3850.lp	1225	0
QP_3841.lp	300	4600
QP_3838.lp	780	0
QP_3834.lp	50	1
QP_3832.lp	561	0
QP_3822.lp	861	0
QP_3815.lp	192	64
QP_3803.lp	190	2280
QP_3780.lp	168	72
QP_3775.lp	180	60
QP_3772.lp	380	4560
QP_3762.lp	90	480
QP_3757.lp	552	8096
QP_3752.lp	462	6160
QP_3751.lp	150	50
QP_3750.lp	210	70
QP_3745.lp	325	0
QP_3738.lp	435	0
QP_3714.lp	120	40
QP_3709.lp	600	50

Table 1 Instances detail

1

Instance name	variable count	constraint count
QP_3706.lp	703	0
QP_3705.lp	378	0
QP_3703.lp	225	30
QP_3693.lp	1128	0
QP_3650.lp	946	0
QP_3642.lp	1035	0
QP_3614.lp	210	44
QP_3587.lp	240	46
QP_3587.lp QP_3584.lp QP_3565.lp	528	10912
QP_3565.lp	276	0
QP_3562.lp	63	42
QP_3506.lp	496	0
QP_3413.lp	400	40
QP_3402.lp	144	24
QP_3380.lp	8904	823
QP_3361.lp	1024	64
QP_3347.lp	676	52
QP_3361.lp QP_3347.lp QP_3307.lp	256	32
QP_2957.lp	484	44
QP_2880.lp	625	50
QP_2733.lp	324	36
QP_2512.lp	100	20
OP_2492.lp	196	28
QP_2359.lp QP_2357.lp QP_2315.lp	306	3264
QP_2357.lp	240	2240
QP_2315.lp	595	13090
QP_2096.lp	300	6925
QP_2087.lp	276	6096
QP_2085.lp	253	5336
QP_2077.lp	231	4642
OP_2073.lp	210	4011
QP_2067.lp QP_2060.lp QP_2055.lp	190	3440
QP_2060.lp	171	2926
QP_2055.lp	153	2466
QP_2047.lp	136	2057
QP_2036.lp	324	324
QP_2029.lp	299	299
QP_2022.lp	275	275
QP_2017.lp	252	252
QP_1976.lp	152	152
QP_10074.lp	75	10
QP_10073.lp	75	6
QP_10072.lp	75	10
QP_10071.lp	200	11
QP_10070.lp	200	11
QP_10069.lp	200	10
QP_10068.lp	200	11
QP_10067.lp	200	5
QP ₋ 10066.lp	200	11
QP_10065.lp	200	11
QP_10064.lp	200	11
QP_10063.lp	200	5
QP_10062.lp	200	10
QP_10061.lp	200	5
QP_10060.lp	200	10
QP_10059.lp QP_10058.lp	200	10
QP_10058.lp	200	11
QP_10057.lp	200	11
QP_10056.lp	175	5

Table 2 Instances detail

Instance name		constraint count
QP_10055.lp	175	5
QP_10054.lp	175	11
QP_10053.lp	150	10
QP_10052.lp	150	6
	150	10
QP_10051.lp		
QP_10050.lp	150	5
QP_10049.lp	150	10
QP_10048.lp	150	5
QP_10047.lp	150	10
QP_10046.lp	150	6
QP_10045.lp	150	10
QP_10044.lp	150	6
QP_10043.lp	150	10
QP_10042.lp	125	5
	125	5
QP_10041.lp		6
QP_10040.lp	125	6
QP_0752.lp	250	1
QP_0633.lp	75	1
QP_0067.lp	80	1
_st_testph4.lp	3	10
_st_testgr3.lp	20	20
_st_testgr1.lp	$\frac{10}{10}$	5
_st_test8.lp	24	20
_st_test6.lp	10	
		5
_st_test5.lp	10	11
_st_test4.lp	6	5
_st_test3.lp	13	10
_st_test2.lp	6	$\begin{bmatrix} 2\\1 \end{bmatrix}$
_st_test1.lp	5 2 4 5 2 6	1
_st_miqp3.lp	2	1
_st_miqp2.lp	4	3
_st_miqp1.lp	5	3 1
_prob03.lp)	1
_prob03.1p	5	8
_pb351575.lp	525	50
_pb351555.lp	525	50
_pb351535.lp	525	50
_pb302075.lp	600	50
_pb302055.lp	600	50
_pb302035.lp	600	50
_nvs24.lp	10	10
_nvs23.lp	9	
_nvs19.lp	8	8
_nvs18.lp	6	6
_nvs17.lp		7
nve15 ln	/	1
_nvs15.lp	4	
_nvs13.lp	5	5
_nvs12.lp	4	4
_nvs11.lp	3	3
_nvs10.lp	6 7 4 5 4 3 2 3	9 8 6 7 1 5 4 3 2
_nvs03.lp	3	2

Table 3 Instances detail

Graphpart 3pm-0334-0334.lp	Instance name	variable count	constraint count
Graphpart 3pm-0333-0333.lp 81 27 Graphpart 3pm-0234-0244.lp 96 32 Graphpart 3gm-0234-0234.lp 72 24 Graphpart 3g-0444-0444.lp 192 64 Graphpart 3g-0344-0344.lp 108 36 Graphpart 3g-0344-0344.lp 108 36 Graphpart 3g-0334-0334.lp 108 36 Graphpart 3g-0333-0333.lp 81 27 Graphpart 3g-0334-0234.lp 96 32 Graphpart 3g-0244-0244.lp 96 32 Graphpart 3g-0234-0234.lp 72 24 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0077-0777.lp 147 49 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0099-011.lp 243 81 Graphpart 2g-0095-0062.lp 300 100 Graphpart 2g-0085-0062.lp 300 36 Graphpart 2g-0085-0062.lp 75 25 Graphpart 2g-0085-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0088-0088.lp 102 64 Graphpart 2g-008-006.lp 108 36 Graphpart 2g-005-0062.lp 75 25 Graphpart 2g-005-0062.lp 301 00 chimera selby-c8-onc8-01.lp 507 00 chimera selby-c8-onc8-01.lp 507 00 chimera mgw-c8-507-onc8-02.lp 2031 00 chimera mgw-c8-507-onc8-01.lp 2032 00 chimera mgw-c8-507-onc8-01.lp 2032 00 chimera mgw-c8-507-onc8-01.lp 508 00 chimera mgw-c8-507-onc8-01.lp 508 00 chimera mgw-c8-507-onc8-01.lp 508 00 chimera mgw-c8-6031-01.lp 2032 00 chimera mgw-c8-6031-01.lp 2032 00 chimera mgw-c8-6031-01.lp 2032 00 chimera mgw-c8-6031-01.lp 2032 00 chimera had-40040 11p 440 00 chimera had-4	_Graphpart_3pm-0334-0334.lp	108	36
Graphpart 3pm-0244-0244.lp 72 24 Graphpart 3g-0444-0444.lp 192 64 Graphpart 3g-0344-0344.lp 192 64 Graphpart 3g-0344-0344.lp 198 36 Graphpart 3g-0334-0334.lp 108 36 Graphpart 3g-0333-0333.lp 108 127 Graphpart 3g-0244-0244.lp 96 32 Graphpart 2g-0244-0244.lp 96 32 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0068-0868.lp 192 64 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0055-055.lp 75 25 Graphpart 2pm-0059-0999.lp 108 36 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-0100-0824.lp 300 100 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0077-077.lp 147 49 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0077-077.lp 147 49 Graphpart 2g-0079-0077.lp 147 49 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0079-0077.lp 147 49 Graphpart 2g-00166-0066.lp 108 36 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 Graphpart 2g-0045-0062.lp 75 25 Graphpart 2g-0045-0062.lp 75 25 Graphpart 2g-0048-101.lp 2031 0 chimera selby-c8-onc8-01.lp 507 0 chimera selby-c16-02.lp 2031 0 chimera fir-02.lp 2032 0 chimera mis-01.lp 2032 0 chimera mis-02.lp 2032 0 chimera mis-02.lp 2032 0 chimera mis-02.lp 2032 0 chimera migw-c8-507-onc8-02.lp 2032 0 chimera migw-c8-439-onc8-001.lp 508 0 chimera mgw-c8-439-onc8-001.lp 508 0 chimera mgw-c8-439-onc8-001.lp 440 0 chimera mgw-c8-439-onc8-001.lp 2032 0 chimera mgw-c16-2031-01.lp 2032 0 chimera mgw-c8-439-onc8-001.lp 2032 0 chimera mgw-c16-2031-01.lp 2032 0 chimera hall-mk4-15.lp 1100 0 chimera hall-mk4-15.lp 1100 1 chimera hall-mk4-15.lp 1100 1 ball-mk4-15.lp 100 1 ball-mk4-15.lp 100 1 ball-mk2-30.lp 100 1 b	_Graphpart_3pm-0333-0333.lp	81	27
Graphpart 3g-0444-0444.lp 192 64 Graphpart 3g-0444-0444.lp 194 194 64 Graphpart 3g-0344-0344.lp 144 48 Graphpart 3g-0334-0334.lp 108 36 Graphpart 3g-0333-0333.lp 108 127 Graphpart 3g-0334-0334.lp 108 36 Graphpart 3g-0244-0244.lp 96 32 Graphpart 2g-0039-0999.lp 72 24 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0055-0055.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0066-066.lp 108 36 Graphpart 2g-0077-077.lp 147 49 Graphpart 2g-0099-108-108.lp 192 64 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0044-1601.lp 108 36 Graphpart 2g-0044-1601.lp 248 16 Graphpart 2g-0044-1601.lp 240 46 chimera selby-c8-onc8-01.lp 507 0 chimera selby-c8-onc8-01.lp 507 0 chimera selby-c16-02.lp 2031 0 chimera mis-02.lp 2032 0 chimera migw-c8-507-onc8-02.lp 508 0 chimera migw-c8-507-onc8-02.lp 508 0 chimera migw-c8-507-onc8-01.lp 508 0 chimera migw-c8-507-onc8-01.lp 508 0 chimera migw-c8-507-onc8-01.lp 508 0 chimera migw-c8-507-onc8-01.lp 508 0 chimera migw-c8-607-onc8-01.lp 508 0 chimera migw-c8-607-onc8-01.lp 508 0 chimera migw-c8-607-onc8-01.lp 508 0 chimera migw-c8-607-onc8-01.lp 40 0 chimera migw-c8-607-onc8-01.lp 508 0 chimera migw-c8-607-onc8-01.lp 508 0 chimera migw-c8-607-onc8-01.lp 508 0 chimera himera him		96	32
Graphpart 3g-0444-0444.lp	_Graphpart_3pm-0234-0234.lp	72	24
Graphpart 3g-0344-0344.lp	_Graphpart_3g-0444-0444.lp		
Graphpart 3g-0334-0334-lp 108 36 Graphpart 3g-0333-0333.lp 81 27 Graphpart 3g-0234-0234.lp 72 24 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0086-0066.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0098-0088.lp 192 64 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0085-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 Graphpart 2g-0044-1601.lp 48 16 chimera_selby-c8-onc8-01.lp 507 0 chimera_selby-c16-02.lp 2031 0 chimera_selby-c16-01.lp 2031 0 <td>_Graphpart_3g-0344-0344.lp</td> <td></td> <td></td>	_Graphpart_3g-0344-0344.lp		
Graphpart 3g-0333-0333.lp 81 27 Graphpart 3g-0244-0244.lp 96 32 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0077-0777-lp 147 49 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-010-0824.lp 300 100 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera selby-c8-onc8-02.lp 507 0	_Graphpart_3g-0334-0334.lp	108	
Graphpart 3g-0244-0244.lp 96 32 Graphpart 3g-0234-0234.lp 72 24 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0077-0777.lp 147 49 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera selby-c8-onc8-02.lp 507 0 chimera selby-c16-02.lp 2031 0 chimera mfr-01.lp 2032 0	Graphpart 3g-0333-0333.lp		
Graphpart 3g-0234-0234.lp 72 24 Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0086-0066.lp 108 36 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0078-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera selby-c8-onc8-02.lp 507 0 chimera selby-c16-02.lp 2031 0 chimera affr-01.lp 2032 0	Graphpart 3g-0244-0244.lp		
Graphpart 2pm-0099-0999.lp 243 81 Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0077-0777.lp 147 49 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera selby-c8-onc8-02.lp 507 0 chimera selby-c8-onc8-01.lp 507 0 chimera selby-c16-01.lp 2031 0 chimera mis-02.lp 2032 0 chimera mis-01.lp 2032 0 <	Graphpart 3g-0234-0234.lp		
Graphpart 2pm-0088-0888.lp 192 64 Graphpart 2pm-0077-0777.lp 147 49 Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0077-0077.lp 147 49 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera selby-c8-onc8-02.lp 507 0 chimera selby-c16-02.lp 2031 0 chimera selby-c16-01.lp 2031 0 chimera mis-01.lp 2032 0 chimera mis-02.lp 2032 0 chimera mgw-c8-507-onc8-02.lp 508 0 <tr< td=""><td></td><td></td><td></td></tr<>			
Graphpart.2pm-0077-0777.lp 147 49 Graphpart.2pm-0066-0066.lp 108 36 Graphpart.2pm-0055-0055.lp 75 25 Graphpart.2pm-0044-0044.lp 48 16 Graphpart.2g-1010-0824.lp 300 100 Graphpart.2g-0099-9211.lp 243 81 Graphpart.2g-0088-0088.lp 192 64 Graphpart.2g-0066-0066.lp 147 49 Graphpart.2g-0066-0066.lp 108 36 Graphpart.2g-0065-0062.lp 75 25 Graphpart.2g-0044-1601.lp 48 16 crossdock.15x8.lp 240 46 chimera_selby-c8-onc8-02.lp 507 0 chimera_selby-c8-onc8-01.lp 507 0 chimera_selby-c16-02.lp 2031 0 chimera_selby-c16-01.lp 2031 0 chimera_rfr-01.lp 2032 0 chimera_mis-02.lp 2032 0 chimera_mis-01.lp 2032 0 chimera_mgw-c8-507-onc8-01.lp 508 0			
Graphpart 2pm-0066-0066.lp 108 36 Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera_selby-c8-onc8-02.lp 507 0 chimera_selby-c8-onc8-01.lp 507 0 chimera_selby-c16-02.lp 2031 0 chimera_selby-c16-01.lp 2031 0 chimera_selby-c16-01.lp 2032 0 chimera_rfr-01.lp 2032 0 chimera_ms-02.lp 2032 0 chimera_ms-01.lp 2032 0 chimera_mgw-c8-439-onc8-02.lp 508 0 <t< td=""><td></td><td></td><td></td></t<>			
Graphpart 2pm-0055-0055.lp 75 25 Graphpart 2pm-0044-0044.lp 48 16 Graphpart 2g-1010-0824.lp 300 100 Graphpart 2g-0099-9211.lp 243 81 Graphpart 2g-0088-0088.lp 192 64 Graphpart 2g-0066-0066.lp 108 36 Graphpart 2g-0055-0062.lp 75 25 Graphpart 2g-0044-1601.lp 48 16 crossdock 15x8.lp 240 46 chimera selby-c8-onc8-02.lp 507 0 chimera selby-c8-onc8-01.lp 507 0 chimera selby-c16-02.lp 2031 0 chimera selby-c16-01.lp 2031 0 chimera selby-c16-01.lp 2031 0 chimera rfr-01.lp 2032 0 chimera mis-02.lp 2032 0 chimera mis-01.lp 2032 0 chimera mgw-c8-507-onc8-02.lp 508 0 chimera mgw-c8-439-onc8-001.lp 508 0 chimera mgw-c8-439-onc8-001.lp 440 0	Graphpart 2pm-0066-0066 lp		
Graphpart 2pm-0044-0044.lp			
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Table 4 Instances detail