

Correction to the paper
Lot-Sizing with Stock Upper Bounds and Fixed Charges
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An error was made in the calculations shown in Tables 1 and 2 in the paper. The results for the MIP solver were supposed to be obtained using the Xpress-MP default strategy, but mistakenly the cut strategy parameter was set to generate very few cuts (`XPRS_CUTSTRATEGY=1`) with the result that the runs took much longer than with the default (`XPRS_CUTSTRATEGY=-1`). Corrected tables are given here.

We observe that on some uncapacitated instances (Table 1 below) the default solver performs better when the extended formulations of the sets M^k are not used. However adding the extended formulations to the initial formulation of the problem seems to guarantee a more uniform behavior of the solver. Furthermore, for the most difficult instances, the use of the extended formulations of M^k drastically reduces the computation time.

As to the capacitated instances (Table 2 below), we can observe that the performance of the solver is always much better when the extended formulations of the set M^k are added to the initial formulation of the problem.

		Initial formulation			M^k		
f	c	Gap %	Time	Unslv.	Gap %	Time	Unslv.
1000	2	0.0	0.0	0	0.0	2.0	0
	5	0.0	0.5	0	0.0	1.5	0
	10	0.0	35.3	0	0.0	1.3	0
	20	0.0	0.5	0	0.0	1.8	0
2000	2	0.0	0.8	0	0.0	2.3	0
	5	0.0	19.3	0	0.0	2.0	0
	10	0.0	4.0	0	0.0	2.5	0
	20	0.0	1.3	0	0.0	0.3	0
5000	2	0.0	14.0	0	0.0	0.8	0
	5	0.4	75.8	1	0.0	0.5	0
	10	0.1	139.5	1	0.0	1.0	0
	20	0.2	224.3	2	0.0	0.8	0

Table 1: Uncapacitated instances.

		Initial formulation			M^k		
f	c	Gap %	Time	Unslv.	Gap %	Time	Unslv.
1000	2	1.9	300.0	4	0.0	11.5	0
	5	1.5	300.0	4	0.0	43.5	0
	10	2.0	300.0	4	0.0	38.5	0
	20	2.2	300.0	4	0.0	118.3	1
2000	2	3.3	300.0	4	0.0	49.8	0
	5	4.5	300.0	4	0.1	134.5	1
	10	4.3	300.0	4	0.0	162.3	1
	20	4.2	300.0	4	0.3	198.3	2
5000	2	4.5	300.0	4	0.0	91.8	0
	5	6.3	300.0	4	1.2	300.0	4
	10	6.1	300.0	4	1.6	300.0	4
	20	5.9	300.0	4	2.1	300.0	4

Table 2: Capacitated instances.