

TMA521/MMA510
Optimization, project course
Project 2, the competition

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The competition 2009

- The competition takes place on Wednesday, 14 October at 11.00–11.15 in room MVF:23.
- The SCP instances for the competition will be released on Wednesday, 14 October, at 9.00 on the course homepage.
- The instances will be found at <http://people.brunel.ac.uk/~mastjjb/jeb/orlib/files/>
- All computations must be made on a linux computer in Mathematical Sciences students' lab

The table below should be filled in

prob. name	optimal primal value	optimal dual value / lower bound	bundle+heuristic (a): time $\leq a_i$			heuristic (b): time $\leq b_i$			heuristic: value $\leq \bar{z}_i$		
			val. *	time (s)	time limit	val. *	time (s)	time limit	val.	time (s) *	value limit
scpb3	80				50			5			82
scpd3	72				150			30			74
scpcyc09	780				360			60			810
Average values:											

- The columns marked with * constitute the competition tasks

Clock time and value limits

- Clock time limits for the respective problems and settings:
 - (a) Counting from the initialization of the problem: a_1 , a_2 , and a_3 seconds, respectively.
 - (b) Counting from the completion of the bundle code: b_1 , b_2 , and b_3 seconds, respectively.
- The value limits for the respective problems:
 - (c) The upper bounds \bar{z}_1 , \bar{z}_2 , and \bar{z}_3 respectively.

Three winners will be announced

- (I) The group that on average reaches the best feasible solutions within the fixed CPU time according to (a).
- (II) The group that on average reaches the best feasible solutions within the fixed CPU time according to (b).
- (III) The group that on shortest average time reaches a feasible solution with value less than or equal to the upper bounds according to (c)