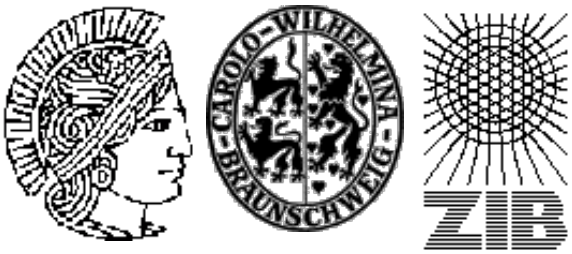
Testset SP



Artificially constructed Steiner tree problems.

The files can be found in the download section.

Name	|V|	|E|	|T|	DC	Opt
antiwheel5	10	15	5	Ps	**7**
design432	8	20	4	Ps	**9**
oddcycle3	6	9	3	Ps	**4**
oddwheel3	7	9	4	Ps	**5**
se03	13	21	4	Ps	**12**
w13c29	783	2262	406	NP?	**507**
w23c23	1081	3174	552	NP?	**689**
w3c571	3997	10278	2284	NP?	**2854**

The column **DC** classifies the difficulty of the instance.

L
: Solvable by usage of local preprocessing. Typical examples are the SD-Test, BD-n Tests and FST computations. Neither a global upper nor lower bound needs to be computed.

P
: Solvable by polynomial time algorithms, like dual ascent in combination with primal heuristic, a integral LP formulation or advanced preprocessing like reduced cost criteria or the RCR-Test.

NP
: No polynomial time algorithm is known. Use of an exponential time enumeration sceme like Branch-and-Bound is neccessary.

The letter after class gives an impression how long it takes to solve the problem using state-of-the-art soft- and hardware. **s**econds means less than a minute (this includes instances which can be solved in fractions of a second). **m**inutes means less than an hour. **h**ours is less than a day and **d**ays is less than a week. **w**eeks mean it takes really a long time to solve this instance. **?** means the instance is not solved or the time is not known.

If the number in the **Opt** column is written in *italics* the optimum is not known. The number given is the best know upper bound.

Last Update : 2015/02/11 11:57:20 $ by Thorsten Koch

URL: http://www.zib.de