## D5 Testbed for Experimental Algorithmics

Kurt Mehlhorn and Peter Sanders are teaching the Data Structure and Algorithms Course in Saarbrücken in the winter term. A first version of the test bed has been set up for the course by Guido Schäfer. The first version concentrates on the contest aspect of the testbed. A web-site

`http://www.mpi-sb.mpg.de/~schaefer/MLLB/try.html`

has been set up (at the moment, only for the use within the course) with the following functionality.

- Problem instances for some combinatorial optimization problems (at the moment, weighted matchings in graphs) can be up-loaded to the web-site. The web-site runs the instances and keeps track of the worst-case instances for different problem sizes.
- Problem instances can be down-loaded from the web-site.
- A framework for the evaluation of instance generators can be down-loaded from the web-site. The evaluation determines, for example, the asymptotics of the generator.
- Instance generators can be uploaded to the web-site.

We will incorporate the experience with our test users into the testbed in the spring of 2001. A first public release will be made somewhat later. We will use the first version of the testbed for the “LEDA-look-bad-contest”.