Announcement and Call for Participation:

The International Competition on SAT Testing

March 15–17, 1996, Beijing, China

1. *Goals*

   The goal of this competition is to evaluate and compare the performance of the latest SAT procedures, and to provide a forum for academic exchange on the SAT problem.

2. *General Information and Policy*

   - This competition is sponsored by China's "863" High-Tech R&D Project for Intelligent Computing Systems.

   - The basic unit of participation in the competition is a *team*. Each team has one or more members.

   - Each team should notify at least one of the Competition co-chairs by JANUARY 31st, 1996 of their intention to participate.

   - the competition will be held from 9am March 15, 1996 to 6pm March 17, 1996, in Beijing, China. Teams with at least one member present at the competition site will be given preference, and remote participation is also allowed. (The total number of places is limited by the available machine resources. We expect to have room for about 20 teams.) The registration and submission of executable programs must be done by 9am, March 15.

   - At the start of the competition, each team must submit a description of its procedures. Each team will be given an opportunity to present a description of its approach at the workshop.

   - In order to keep a balance among different approaches towards solving the SAT problem, the following three parts of benchmarks will be provided at the competition: (1) randomly generated 3SAT instances; (2) industrial instances–I and (3) industrial instances–II. For benchmarks of part (1), the random seeds are randomly determined, and the source code of the generator will be released at Dec. 1st, 1995. Benchmarks of part (2) will not be released until the beginning of the competition, but similar instances will be avalable by Dec. 1st. Benchmarks of part (3) will be released at Dec. 1st, 1995, with variables and clauses reordered by randomly generated permutations at th beginning of the competition. Each team can submit different procedures for different types of benchmarks.

   - The executables of the winning programs with a description of the approach will be made available via anonymous ftp at the end of the competition. The winning teams will also be invited to submit a paper on their approach to the special journal issue devoted to the SAT Symposium.

   - The competition will be notarized by a notary public office.

3. *Environments*

   The competition will be performed on several SUN Sparc 20 WorkStations (80 MIPS, 32M memory and UNIX Operating System). The control program will start each program sequentially, and ensure that each program is excecuted in the same environment.

4. *Further Information*

   For further information, contact James Crawford at jc@cs.uoregon.edu and DingXin Wang at dcswdx@tsinghua.edu.cn