

Description of orpailleur/glc

Olivier Roussel
CRIL - CNRS UMR 8188
rue de l'Université, SP 16, 62 307 Lens Cedex, France
olivier.roussel@cril.univ-artois.fr

Orpailleur/glc (read orpailleur on top of glucose) is a small modification of glucose 1.0. Glucose 1.0 [AS09] was submitted by Gilles Audemard and Laurent Simon to the SAT competition 2010. The modification is quite limited and simple. It consists in sorting the literals of a learned clause, by decreasing decision levels, just before running the expensive clause simplification introduced in MiniSat [ES03] by Niklas Eén and Niklas Sörensson. The goal of this modification is to try to erase first literals with a high decision level, in the hope that this lead to a higher backtrack.

References

- [AS09] Gilles Audemard and Laurent Simon. Predicting Learnt Clauses Quality in Modern SAT Solver. In *Twenty-first International Joint Conference on Artificial Intelligence(IJCAI'09)*, pages 399–404, jul 2009.
- [ES03] Niklas Eén and Niklas Sörensson. An Extensible SAT-solver. In Enrico Giunchiglia and Armando Tacchella, editors, *SAT*, volume 2919 of *Lecture Notes in Computer Science*, pages 502–518. Springer, 2003.