

SATLike3.0-c: solver description

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Abstract—In this document, we briefly describe the SATLike3.0-c solver participating in MaxSAT competition 2019.

I. INTRODUCTION

SATLike3.0-c participates in Incomplete Track. It has two engines, one is local search solver SATLike [1] and another is LinSBPS solver. The main solver is SATLike, and LinSBPS is called only when SATLike fails to find a feasible solution within 40 seconds, which does not usually happen. Note that if SATLike finds a feasible solution within 40 seconds, then it continues to improve the solution and would not call LinSBPS at all. We use an improved version of SATLike namely SATLike 3.0.

II. IMPLEMENTATION

SATLike3.0-c can be directly used to solve both PMS and WPMS. The only difference is the parameters setting.

REFERENCES

- [1] Z. Lei and S. Cai, “Solving (weighted) partial maxsat by dynamic local search for SAT,” in *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI 2018, July 13-19, 2018, Stockholm, Sweden.*, 2018, pp. 1346–1352.