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**Using simplex method in verifying software safety.** (English) Zbl 1274.90227

Yugosl. J. Oper. Res. 19, No. 1, 133-148 (2009).

Summary: We discuss the application of the Simplex method in checking software safety – the application in automated detection of buffer overflows in C programs. This problem is important because buffer overflows are suitable targets for hackers' security attacks and sources of serious program misbehavior. We also describe our implementation, including a system for generating software correctness conditions and a Simplex based theorem prover that resolves these conditions.

**MSC:**

[90C05](#) Linear programming

[90C90](#) Applications of mathematical programming

**Software:**

[Flawfinder](#); [SMT-LIB](#)

**Full Text:** [DOI](#)