

CPA



(CPA-SEQ)

Karlheinz Friedberger, **Marie-Christine Jakobs**,
Thomas Lemberger, Martin Spießl and Philipp Wendler



Achievements in SV-COMP'19

- ▶ One medal in each C category
- ▶ Winner of both overall categories

Gold

2

Silver

2

Bronze

4

The Verification Tool CPAchecker

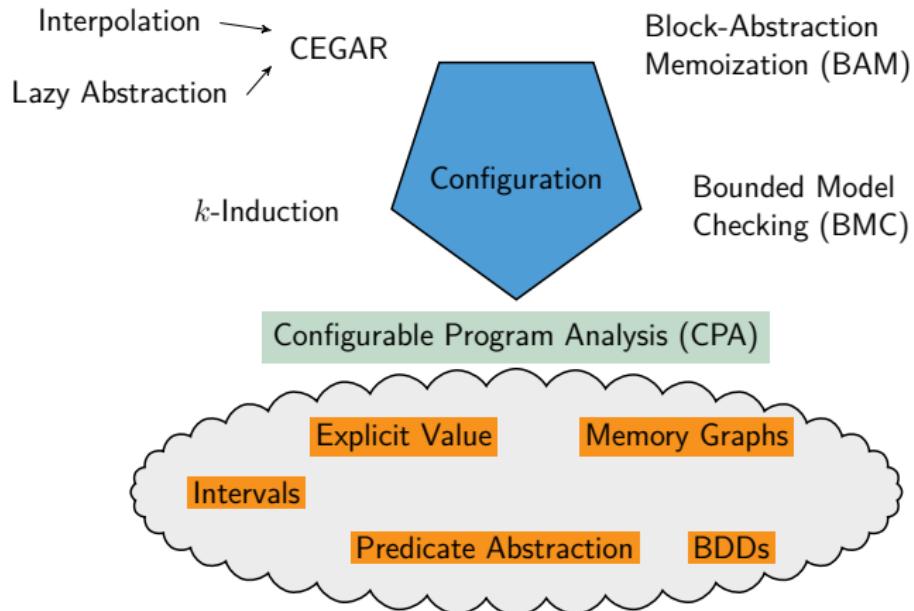
- ▶ Extensible framework for static software analysis
- ▶ Based on the CPA concept
- ▶ Used for C programs, but other front ends exist

- ▶ Written in Java
- ▶ Open source
- ▶ 89 contributors



<https://cpachecker.sosy-lab.org>

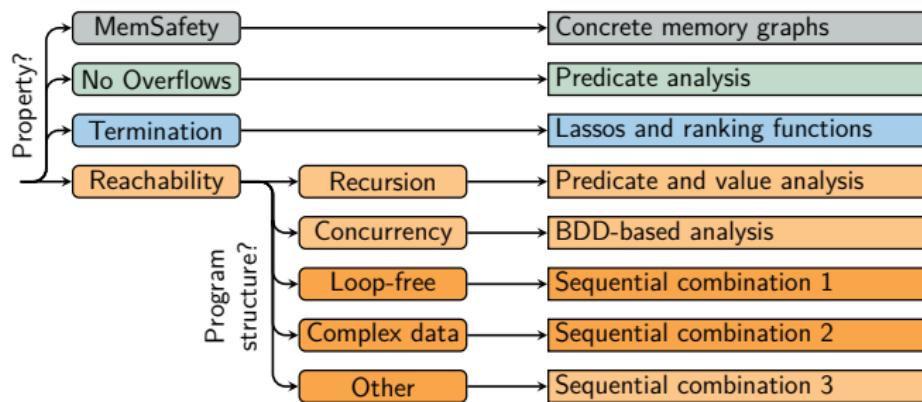
Overview of Approaches



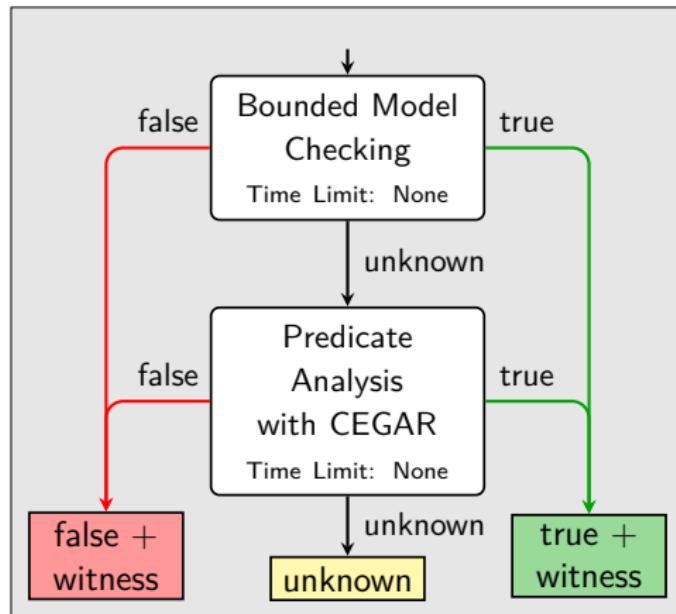
CPA-SEQ Configuration in SV-COMP'19

Strategy selection based on

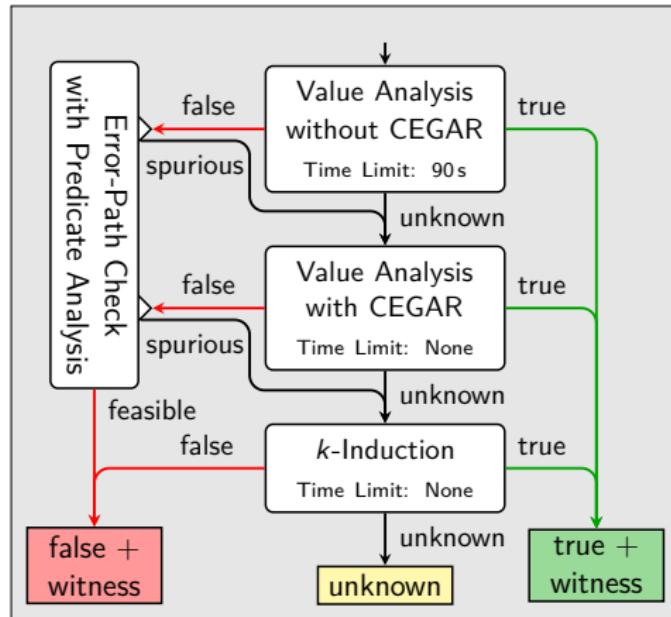
- ▶ properties
 - ▶ program structure



Sequential Combination 1



Sequential Combination 2



Sequential Combination 3

