CoVeriTest

Third in all categories

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Cooperative **Veri**fier-Based **Test**ing in a Nutshell

- ▶ Verifier-based testing
  - ▶ Reaching a test goals = specification violation
  - ▶ Use verifiers to check specification
  - ▶ Generate test cases from counterexamples

- ▶ Cooperation
  - ▶ Interleave different analyses
  - ▶ Analyses may reuse previous analysis results

CoVeriTest Implementation

Integrated in **CPA**✓
https://cpachecker.sosy-lab.org

- ▶ Extensible framework for static software analysis
- ▶ Based on CPA concept
- ▶ Supports various analyses
- ▶ Open source (89 contributors)

Configuration in Test-Comp'19