Overview

- CoCo 2017
- Tools
- Cops
- Scoring
- StarExec
- Results
6th International Confluence Competition

nine regular and two combined categories

- TRS  first-order rewrite systems
- CTRS first-order conditional rewrite systems
- CPF-TRS certified confluence proofs for TRSs
- CPF-CTRS certified confluence proofs for CTRSs
- HRS higher-order pattern rewrite systems
- GCR ground confluence of many-sorted TRSs
- NFP normal form property of TRSs
- UNC unique normal forms with respect to conversion for TRSs
- UNR unique normal forms with respect to reduction for TRSs
- UN unique normalization of TRSs: NFP + UNC + UNR
- CPF certified confluence proofs: CPF-TRS + CPF-CTRS

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### CoCo 2017

#### TRS
- **Problems:** 100
- **Solvers:** 100
- **ACP ver.0.51 2017 CoLL-Saiga CSI**
- **Scores:**
  - ACP ver.0.51 2017 (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - CoLL-Saiga (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - CSI (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### CTRS
- **Problems:** 100
- **Solvers:** CO3 ConCon 1.5
- **Scores:**
  - CO3 (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - ConCon 1.5 (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### HRS
- **Problems:** 77
- **Solvers:** ACPH ver.0.02 2017 CSIho SOL-Vertc_2017
- **Scores:**
  - ACPH ver.0.02 2017 (0 of 77):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - CSIho (0 of 77):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - SOL-Vertc_2017 (0 of 77):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### CPF-TRS
- **Problems:** 100
- **Solvers:** ACP ver.0.51 and CeTA 2017 CSI+CeTA
- **Scores:**
  - ACP ver.0.51 and CeTA 2017 (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - CSI+CeTA (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### CPF-CTRS
- **Problems:** 100
- **Solvers:** ConCon 1.5 + CeTA
- **Scores:**
  - ConCon 1.5 + CeTA (0 of 100):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### GCR
- **Problems:** 64
- **Solvers:** AGCP ver.0.03 FORT 1.0
- **Scores:**
  - AGCP ver.0.03 (0 of 64):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - FORT 1.0 (0 of 64):
    - YES: 0%
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#### NFP
- **Problems:** 00
- **Solvers:** CSI FORT 1.0
- **Scores:**
  - CSI (0 of 60):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - FORT 1.0 (0 of 60):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### UNC
- **Problems:** 60
- **Solvers:** CSI FORT 1.0
- **Scores:**
  - CSI (0 of 60):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - FORT 1.0 (0 of 60):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%

#### UNR
- **Problems:** 00
- **Solvers:** CSI FORT 1.0
- **Scores:**
  - CSI (0 of 60):
    - YES: 0%
    - NO: 0%
    - MAYBE: 0%
  - FORT 1.0 (0 of 60):
    - YES: 0%
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*powered by StarExec*
## Tools & Categories

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Note: New tools and categories are marked with a 'new' label.
Cops

- Confluence problems
- Search & Query & Submission & Download
- Problem Selection
- Support for CTRSs
- Support for HRSs
- Support for MSTRSs

Problem Selection for CoCo 2017

- max. 100 random Cops
- CPF categories use same problems as regular ones
- oriented 3-CTRSs
- pattern systems for HRS
- non-confluent systems for GCR/NFP/UNC/UNR

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### Scoring

#### valid answers
YES/NO

#### regular categories
score is YES+NO

#### CPF category
score is sum of scores of component categories

#### UN category

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NFP $\implies$ UNC $\implies$ UNR
StarExec

Hardware
- nodes 1–32 (2 quad-core, 2.40 GHz, 128 GB)
- nodes 33–192 (2 quad-core, 2.40 GHz, 256 GB)

Software
- tool/benchmark submission/management
- tool execution
- tool pipelining
- queue management (CoCo queue has nodes 51–57)
- (some) statistics
And the Winners are ...