The Path Tools Framework

- PathMap
- PathFinder
- PathBrowser

Incremental Dynamic Analysis

- Refined Coverage Analysis
- Step-wise Run-time Analysis
- Inductive Analysis

Test-driven Fault Navigation

- Reproducing Failure: Test Cases
- Localizing Suspicious System Parts
- Recommending Experienced Developers
  - Micha: 60%
  - Robert: 30%
  - Malte: 10%

Debugging

- Debugging Erroneous Test Cases Backwards
- What Happened before Failures?
- Identifying Corrupted State in the Infection Chain

Support Debugging with the Help of Contact Person

How Infection Chains Come to Be?

Structure

- Where to Start Debugging?

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