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DBT: A Key Enabling Technology

**Fundamental Limitations**

- **Low success rate** of the learning process
- **Limited translation coverage** when applying the learned rules
- **Inefficient host binary code** generated by using the learned rules
Problem and Our Solution

**Problem:** equivalence verification is **unduly restrictive.**

- **An Enhanced Learning-Based Approach for DBT**
  - Constrained equivalence verification to harvest more rules
  - Dynamic context analysis to achieve higher coverage
  - Conditional code handling to generate more efficient host binaries
Thanks

Track II

“Runtimes”

11:20 am–12:40 pm

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