
Inferring Networked System Models from Behavior Traces



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Motivating question

A developer often asks..

**Why does my system
behave in a certain manner?**

One solution: logging

- 1. Log important events**
- 2. Re-run system**
- 3. Look at the log**
- 4. Gain insight**

Another formulation

Developer wants to check
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what the **system** is doing

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**But, for this we need a
model of the system!**

An exciting research space

- What is the right model type?
- What is the right inference algorithm?
- How accurate is the resulting model?
- Is the model more insightful than the log?
- How big/diverse must the log be?
- ...

synoptic.googlecode.com