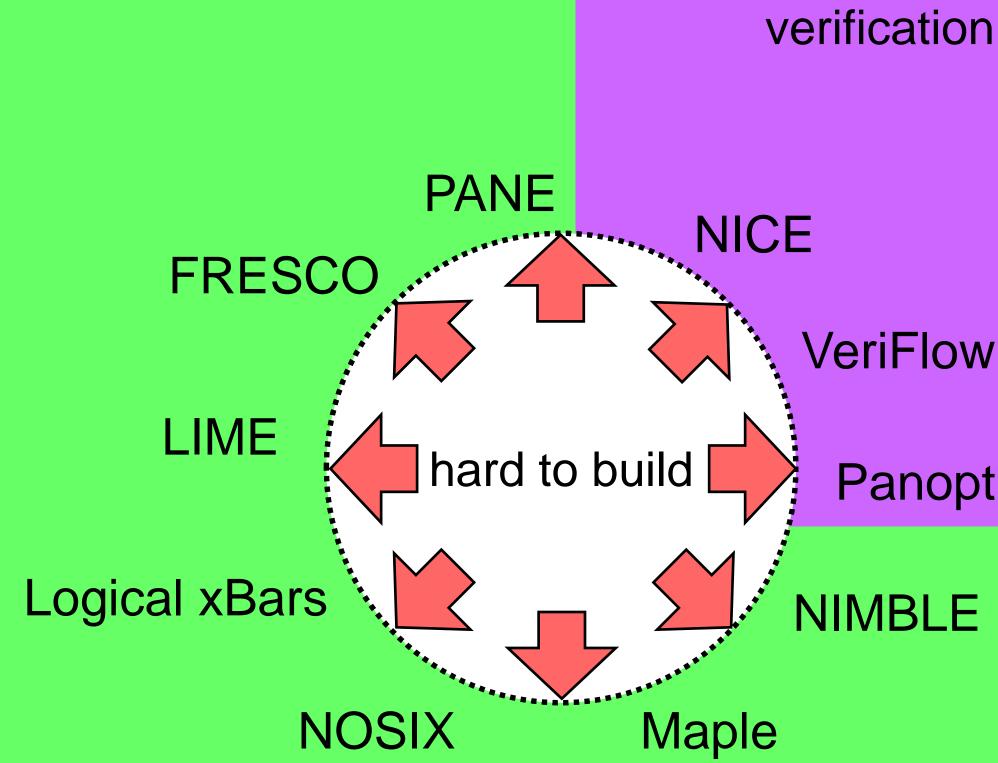
Formal Foundations for SDN

Arjun Guha, Mark Reitblatt, and Nate Foster



ONS 2013 Research Track



programming abstractions and advanced controller platforms

verification and analysis tools

Panopticon

Security Policy Block SSH traffic

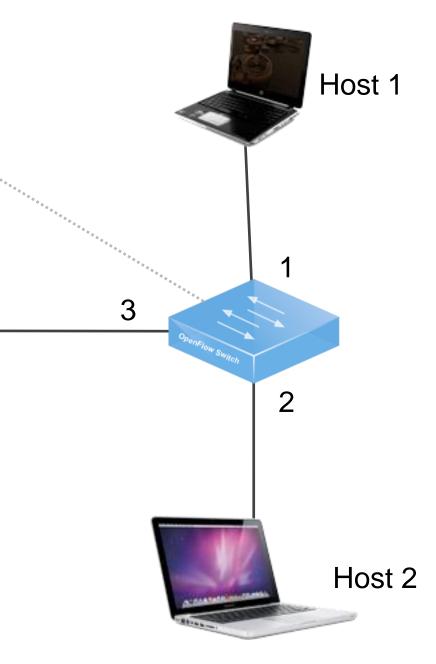
Monitoring Policy Log HTTP requests

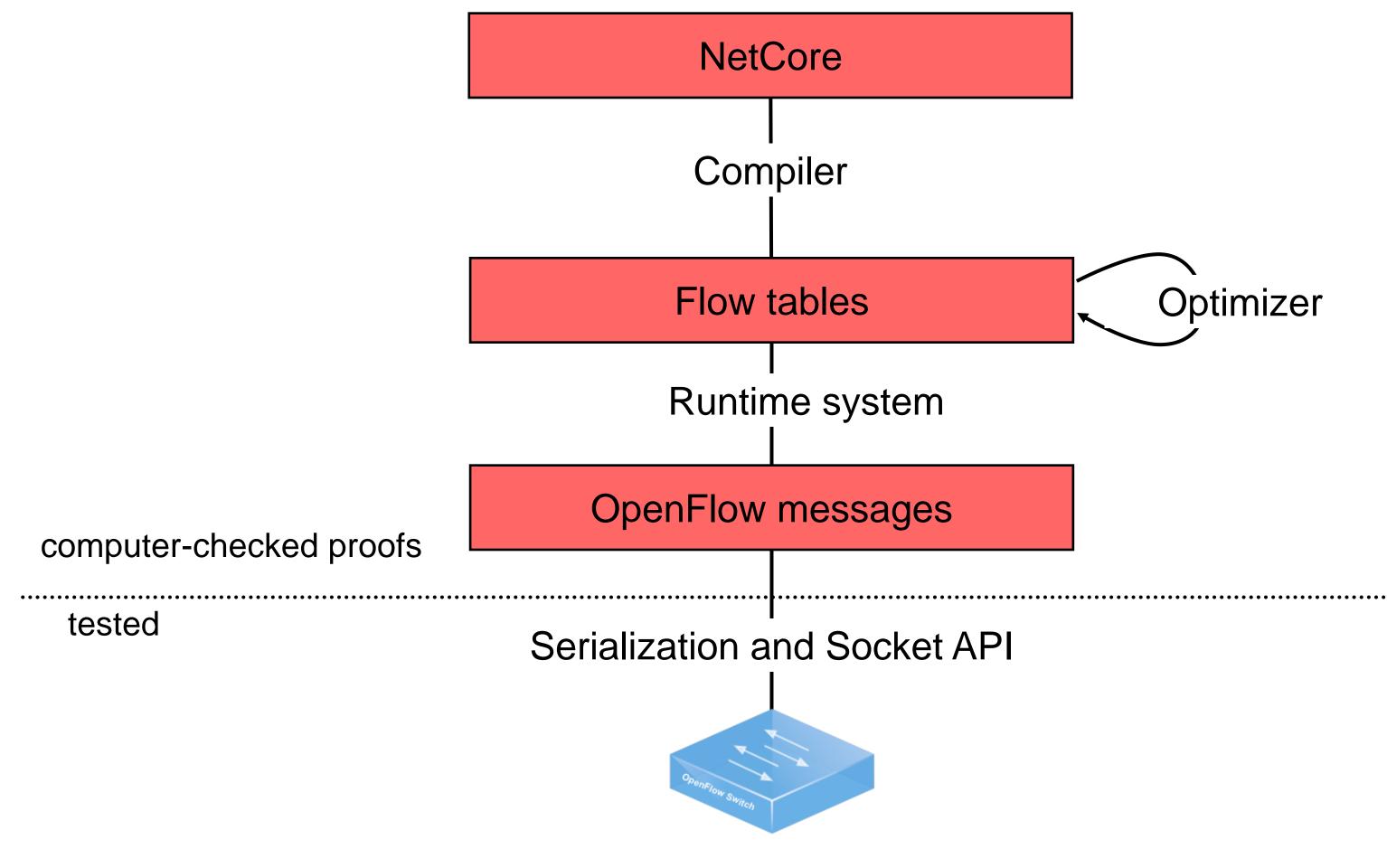
Routing Policy

Forward all other traffic between hosts {1,2} NetCore: a high-level language for SDN programming









Summer School on Formal Methods and Networks

June 10-14, 2013 Cornell University Ithaca, NY, USA

Speakers



Nikolaj Bjorner Microsoft Research Satisfiability Modulo Theories Solving for Network Verification



Brighten Godfrey University of Illinois at Urbana-Champaign Verifying Networks in Real Time



Timothy Griffin University of Cambridge Partial Automation in the Design and Implementation of Path-finding Algorithms



Arjun Guha University of Massachusetts Amherst Network Programming With Frenetic



Peyman Kazemian and **Nick McKeown** Stanford University Network Verification Using Header Space Analysis



Shriram Krishnamurthi Brown University Modeling and Reasoning about Network Components



Ratul Mahajan Microsoft Research Systematically Exploring the Behavior of Control Programs



Pamela Zave AT&T Research Compositional Abstractions of Network Architectures

