

MPTCP Review

Paper Title:

Don't Mind the Gap: Bridging Network-wide Objectives and Device-level Configurations

Overall merit:

5. Excellent paper. I will champion for acceptance.

Reviewer expertise:

1. No familiarity

Novelty:

4. New contribution

Paper summary:

In this paper, Propane, a language and compiler that help network operators bridge the gap between network-wide routing objectives and low-level configurations of devices that run complex distributed protocols, is proposed. The language allows for specifying objectives with high-level constraints. The compiler automatically translates there specifications to router-level BGP configurations. It guarantees that the compiled configurations correctly represent the specified policy under all possible combinations of failures.

Paper Strengths:

- Successful results (compiles quickly, good expressibility)
- Applicable to real life
- Thorough evaluation

Paper Weaknesses:

Propane generated configurations might not be easy to read for humans.

Comments for author:

I think Propane is a very good tool that will help many operators be more efficient in the same way high-level programming languages and compilers help us write programs both more easily and efficiently.