Current network programming lacks the support for in-network programs that use several network hardware simultaneously. This constrains the scale and behavior of programs.

Motivation

Proposed Approach

This Demo

Demo: Disaggregated Dataplane

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Proposed Approach

Dataplane Disaggregation transforms a monolithic in-network program into a distributed system.

This Demo

Flightplan provides a prototype implementation of dataplane disaggregation.

https://flightplan.cis.upenn.edu/

The goal of this demo is to make an accessible presentation of Dataplane Disaggregation to the wider distributed systems community.

Demo can be accessed from:

https://flightplan.cis.upenn.edu/demo/