#### Packet interval and drop interval



#### CoDel: control the drop interval



#### At Equilibrium



# Relationship between drop\_count and drop percentage (independent of tcp or udp)



#### Assuming 200Mbps uplink speed

### Simulation Results: drop\_count



need to wait # of drops to get to a high value in order to reach equilibrium

#### 100(1.2% drop) vs. 150(2.3% drop) TCP flows, drop percentage is the final equilibrium value

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#### **Simulation Results: Latency**



### Comparison to PIE



#### 100 Flows

### In both cases, PIE reaches equilibrium much faster

#### 150 Flows



#### UDP sending at 10% over subscription



### Thank you.

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