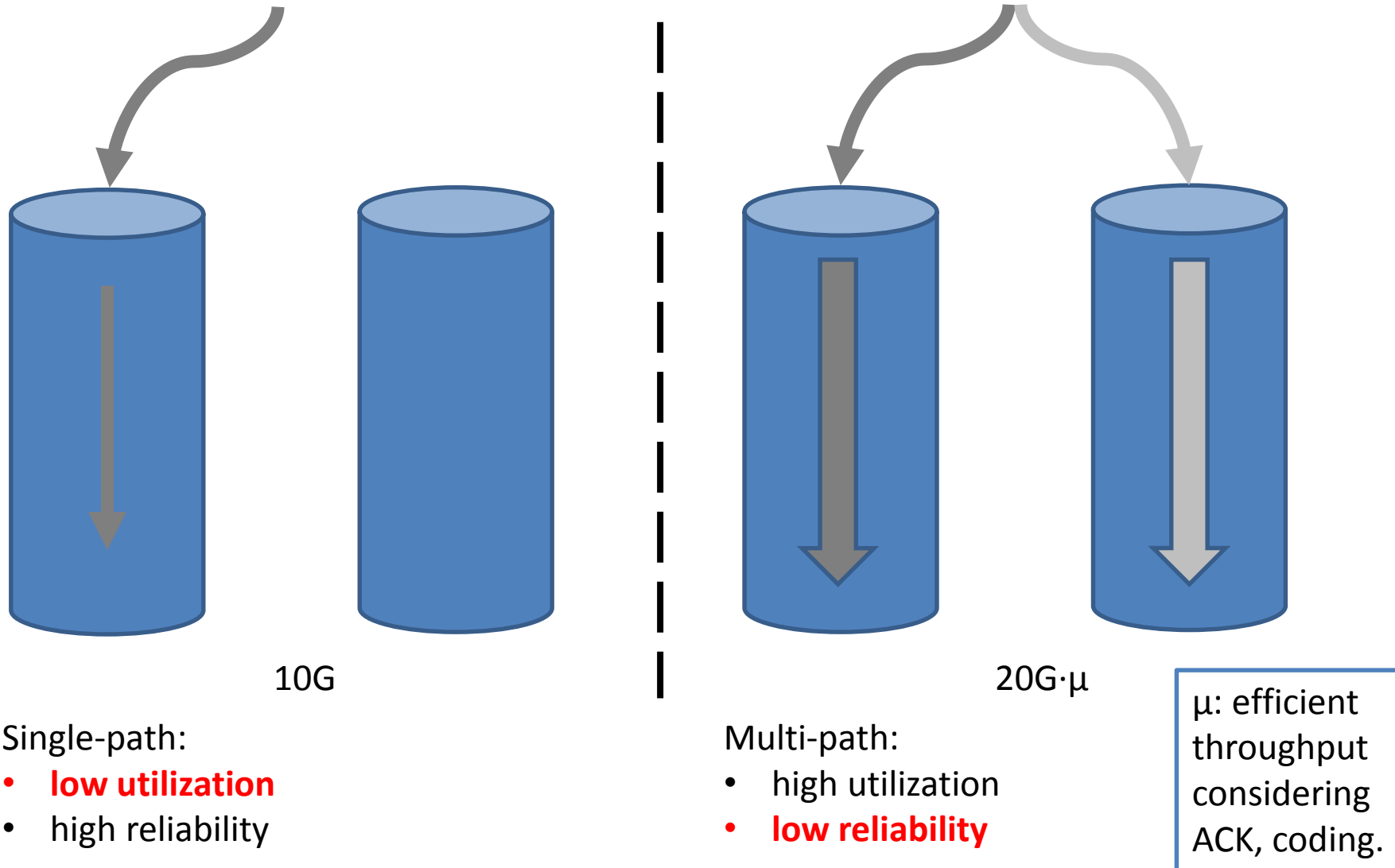
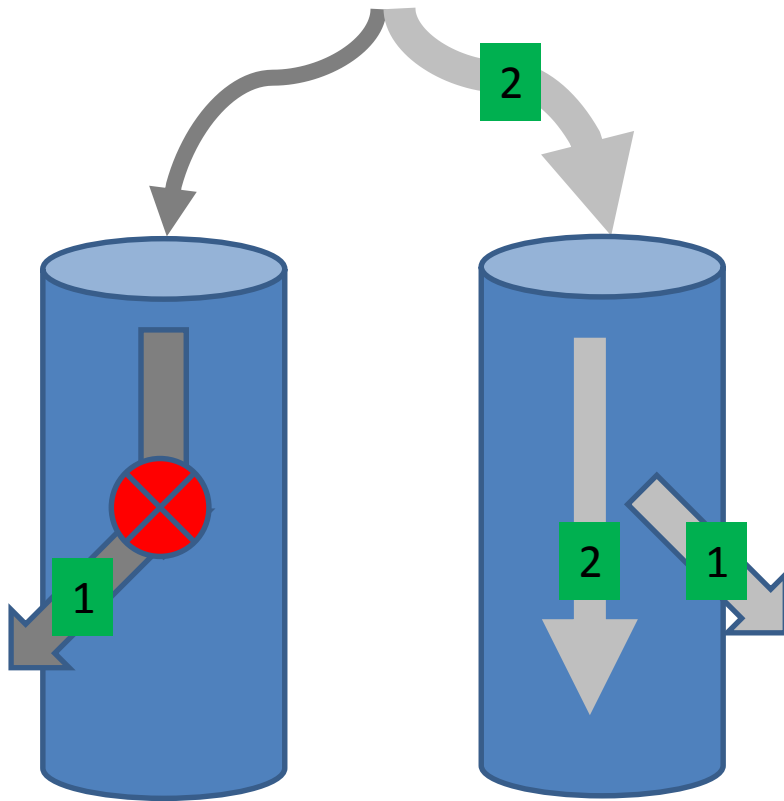


Failures Handling for Multi-path TCP in Data Centers

Static Data Centers



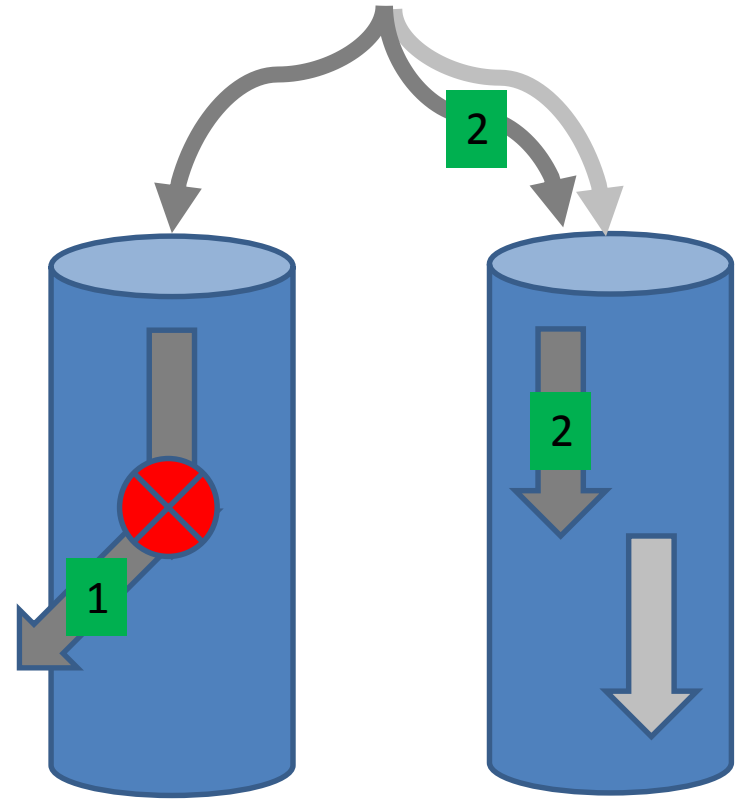
Static Data Centers



$$10G \cdot \mu \cdot T(2,2)$$

Multi-path failures:

1. Drop two subflows;
2. Retransmit initial flow.



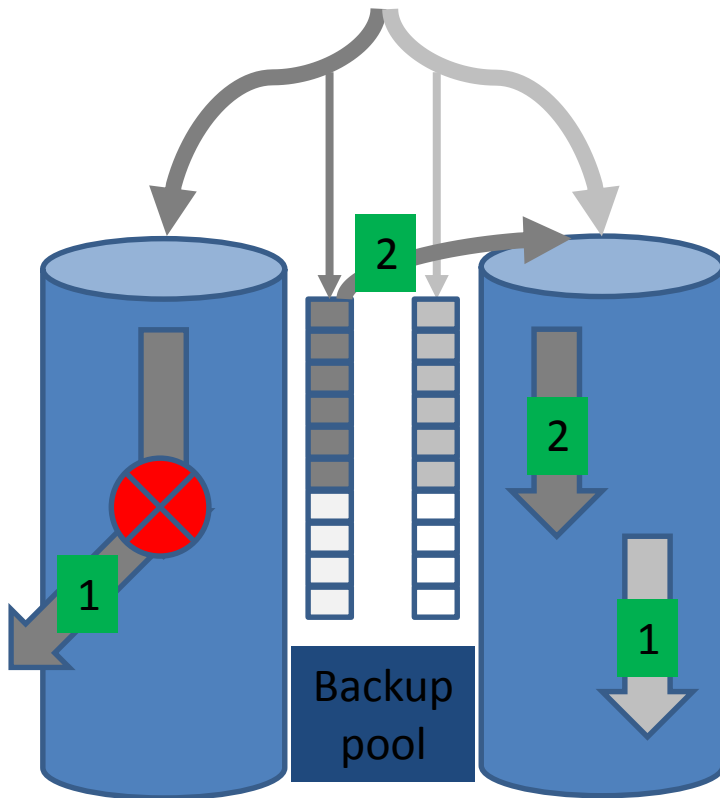
$$10G \cdot \mu \cdot T(2,2)$$

Multi-path failures:

1. Drop two subflows;
2. Retransmit two subflows;
3. Decoding after transmit.

$T(d,r)$: extra overhead of drops and retransmit.

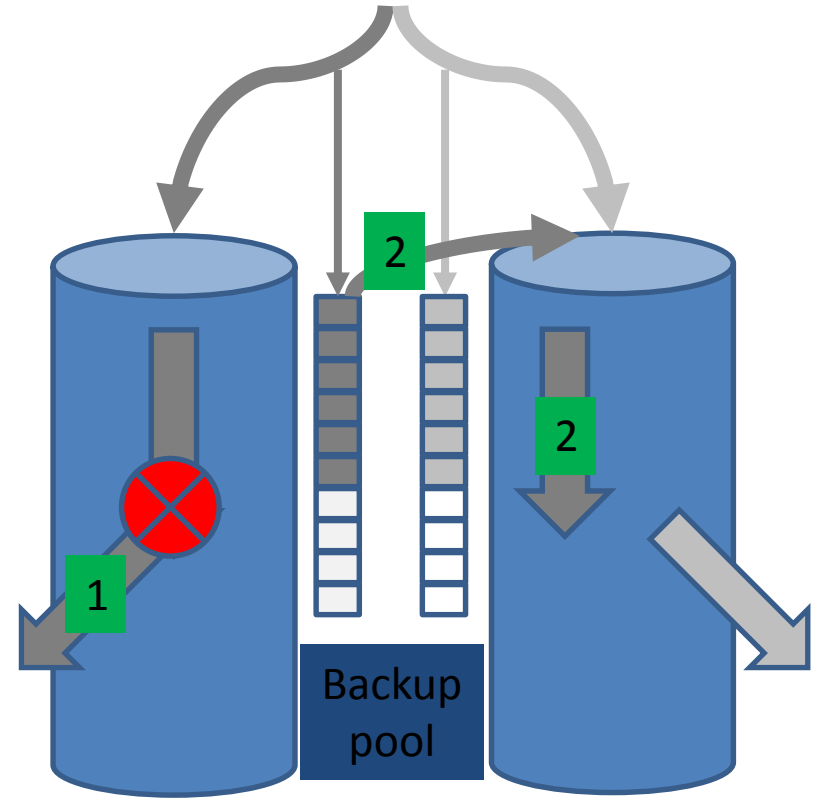
Static Data Centers



$10G \cdot \mu-T(1,1)$

Multi-path failures by backup:

1. Drop one subflow;
2. Retransmit one subflow;
3. Decoding after transmit.

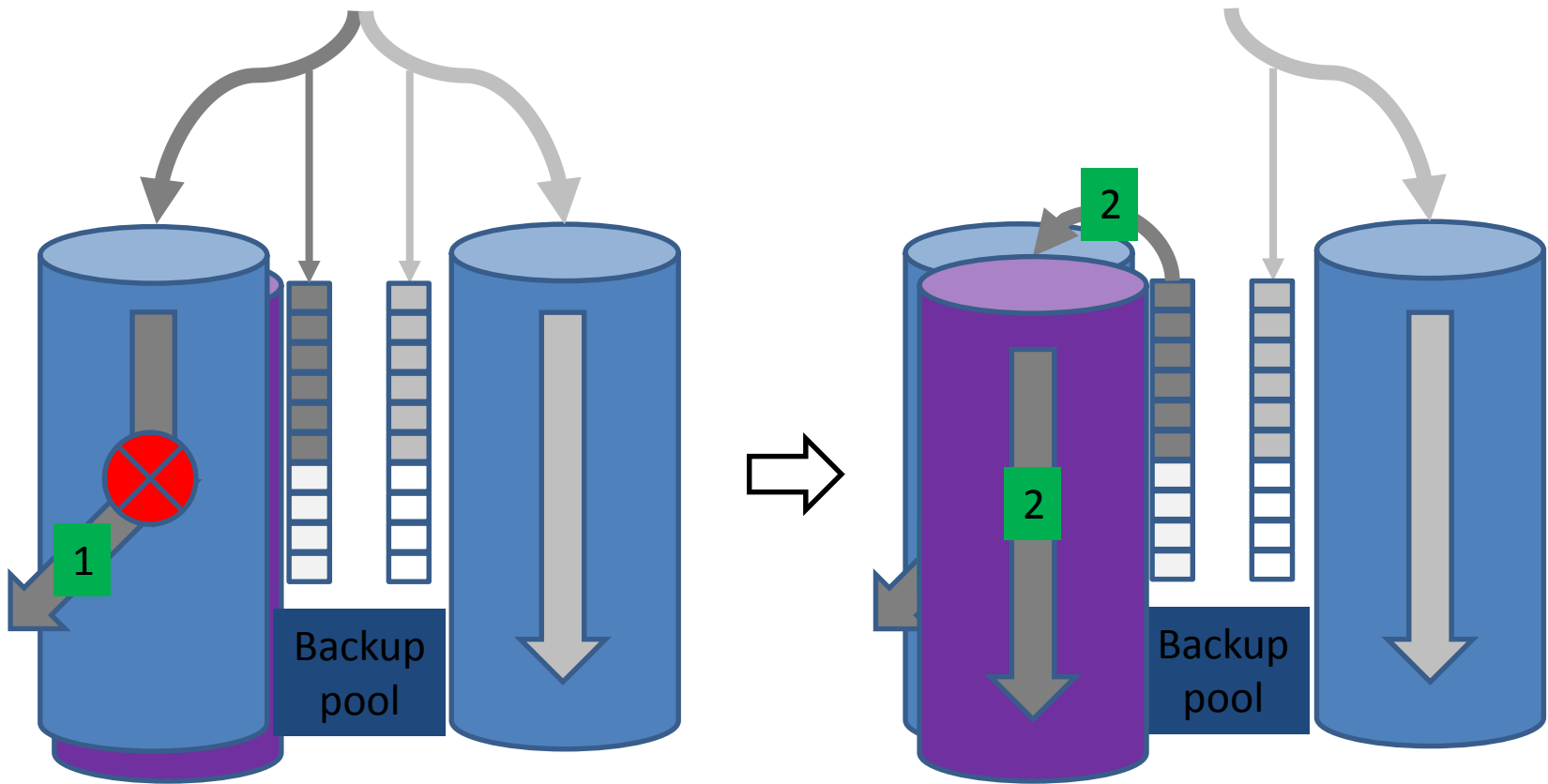


$10G \cdot \mu-T(2,2)$

Multi-path failures:

1. Drop two subflows;
2. Retransmit one subflow.

Flexible Data Centers



$20G \cdot \mu\text{-T}(1,1)$

Multi-path failures by backup:

1. Drop one subflow;
2. Retransmit one subflow;
3. Decoding **as transmitting**.