

Comparing DUALPI2-RC (IETF draft parameters, latest version) with any\_ect option set with PIE and FQ-CODEL.

Full description of parameters:

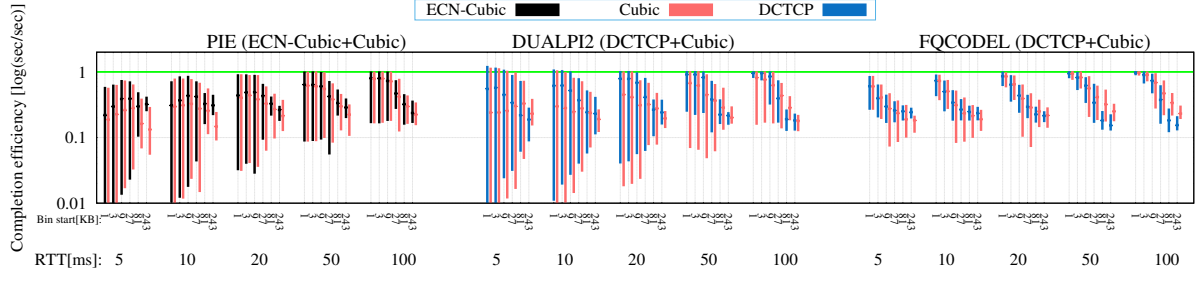
pie: target 15.0ms tupdate 16.0ms alpha 2 beta 20 ecn ecndrop 0

dualpi2rc: limit 40000p target 15.0ms tupdate 16.0ms alpha 0.156250 beta 3.195312 any\_ect  
coupling\_factor 2 drop\_on\_overload step\_thresh 1.0ms drop\_dequeue classic\_protection 10%

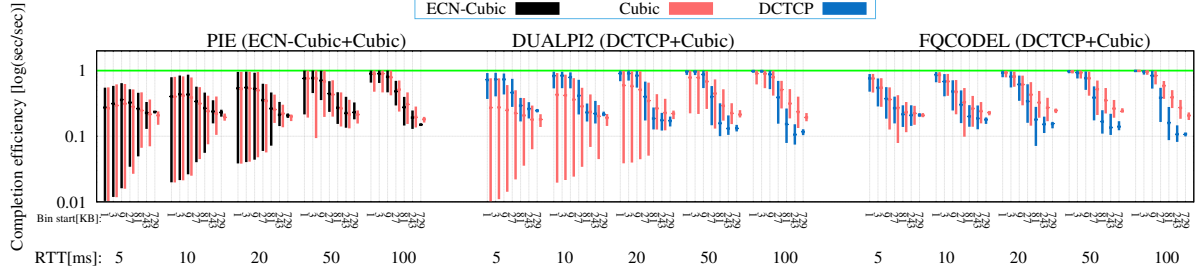
fqcodel: ecn ce\_threshold 1ms

# Appendix A

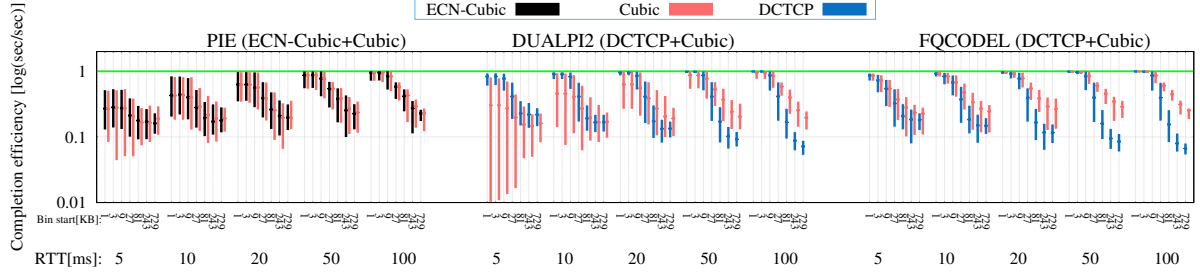
## Equal RTT experiments



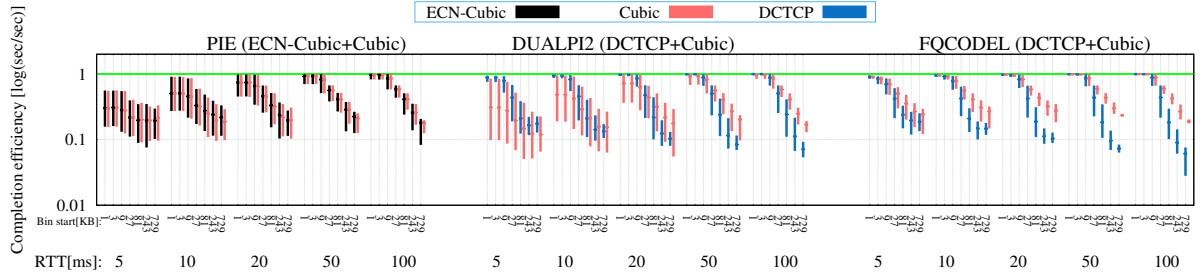
(a) 4Mbps link capacity



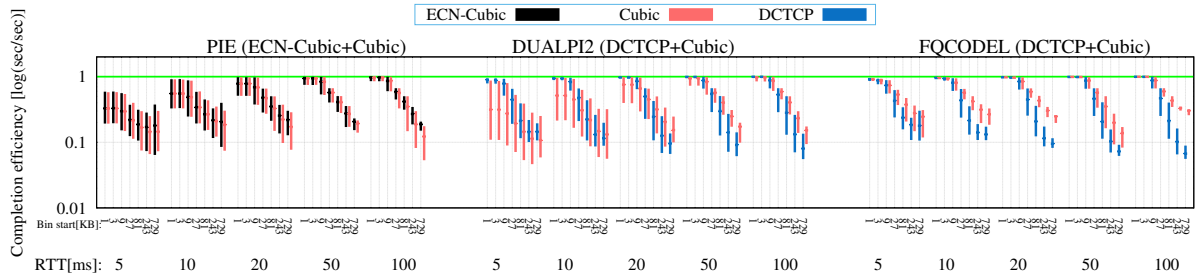
(b) 12Mbps link capacity



(c) 40Mbps link capacity



(d) 120 Mbps link capacity



(e) 200 Mbps link capacity

Figure A.1: Equal RTT (1h-1h)

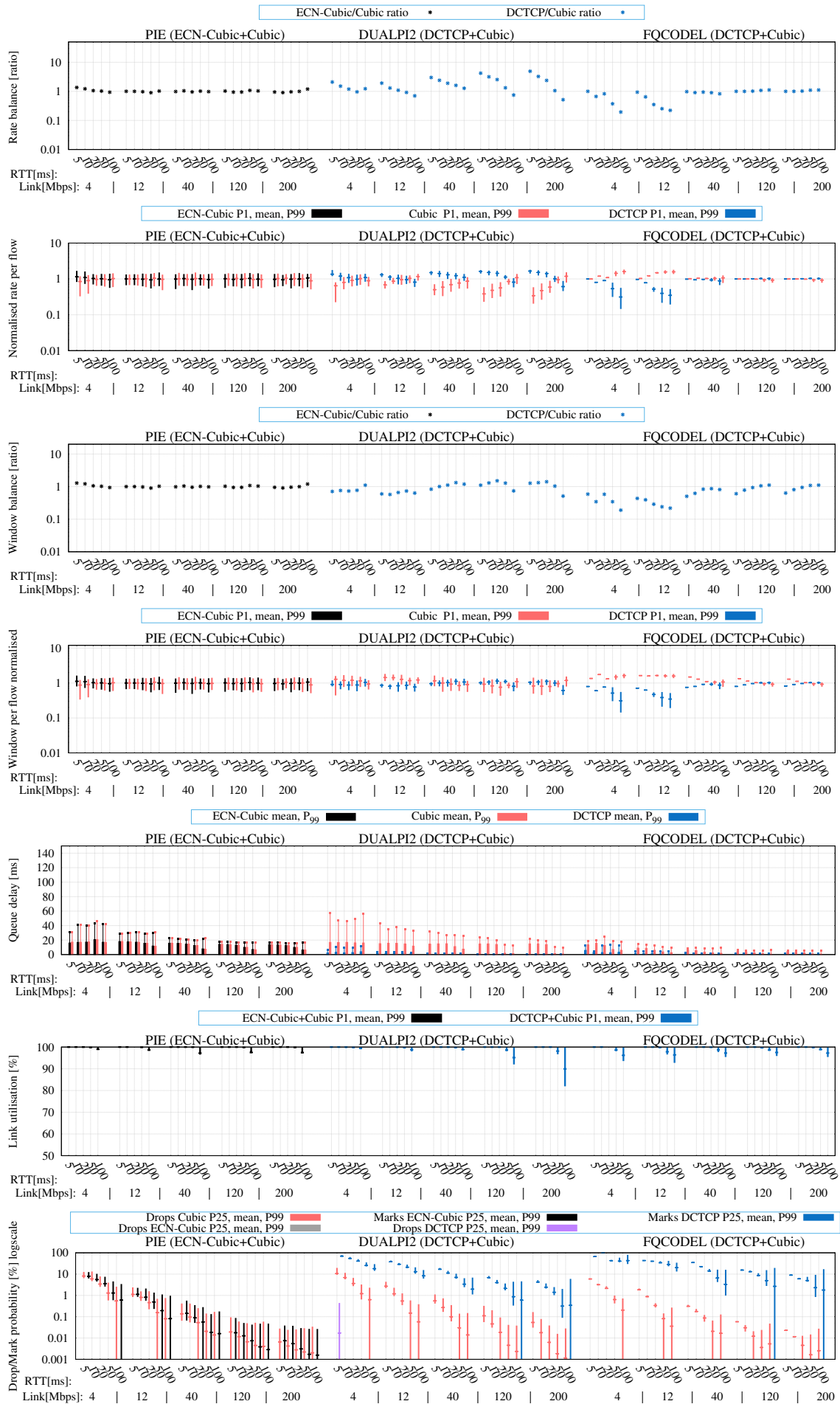


Figure A.2: Equal RTT (1-1)

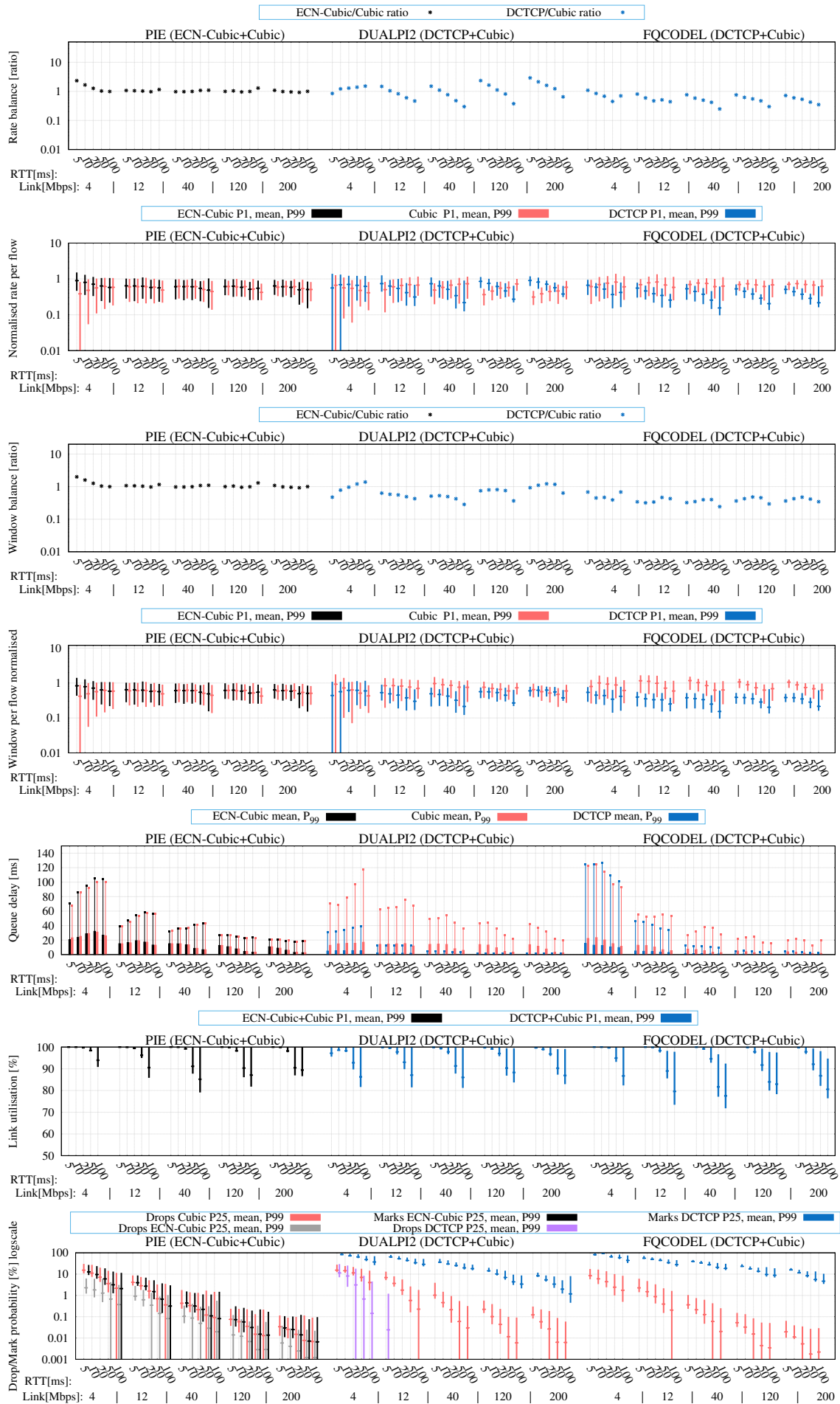


Figure A.3: Equal RTT (1h-1h)

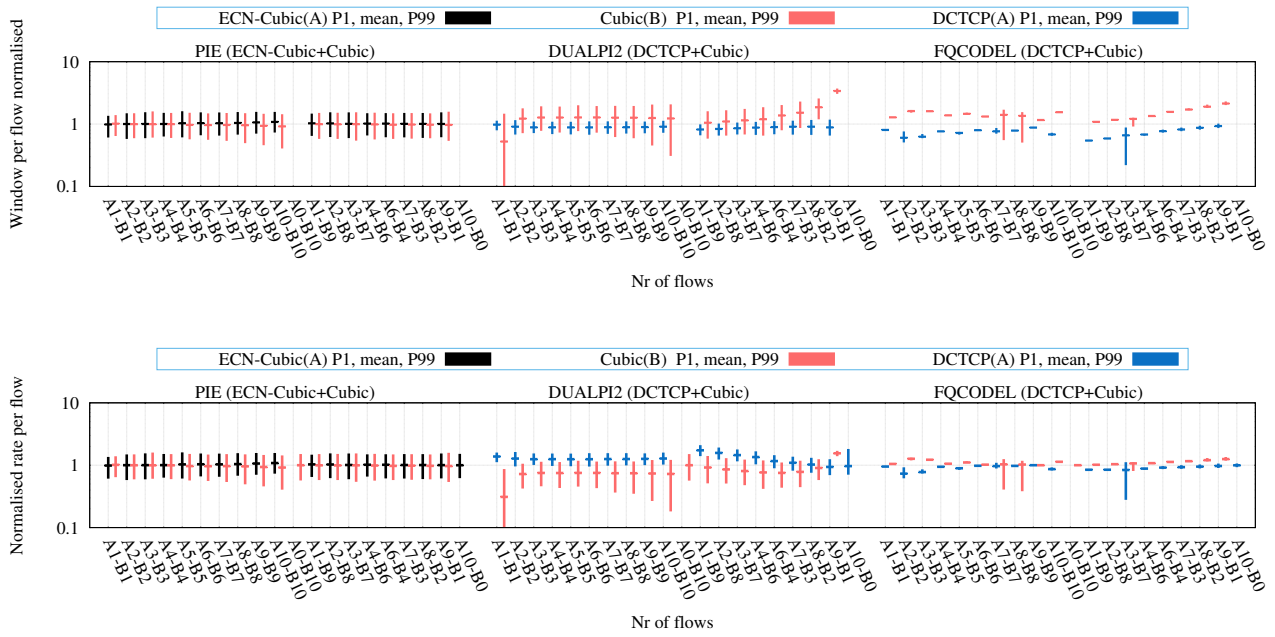


Figure A.4: Normalised rate and window size per flow. 40Mbps link capacity, 10ms RTT. Equal RTT

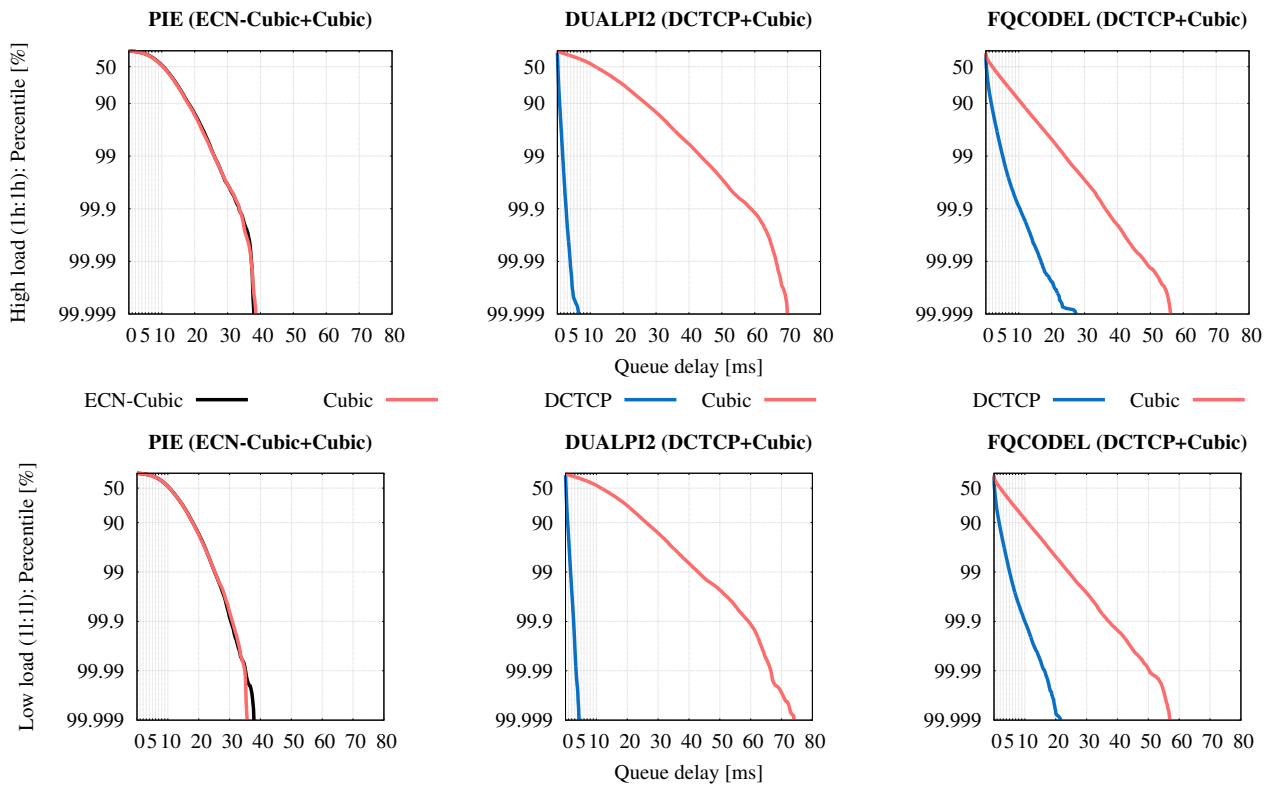


Figure A.5: Queue delay CCDF. 120Mbps link capacity, 10ms RTT. Equal RTT

# Appendix B

## Mixed RTT experiments



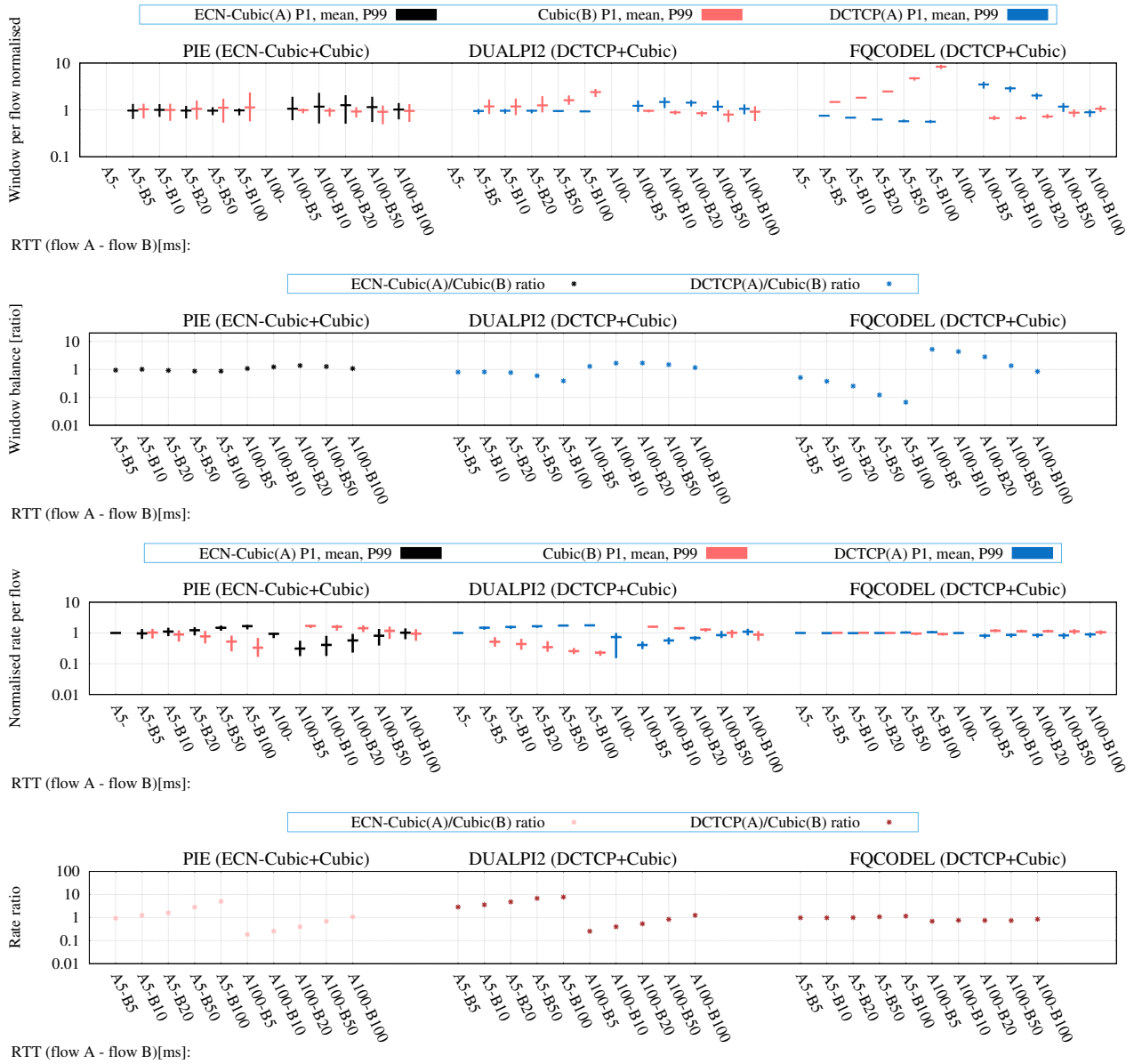


Figure B.1: 1 flow for each CC. Mixed RTT (mrtt2'link40)

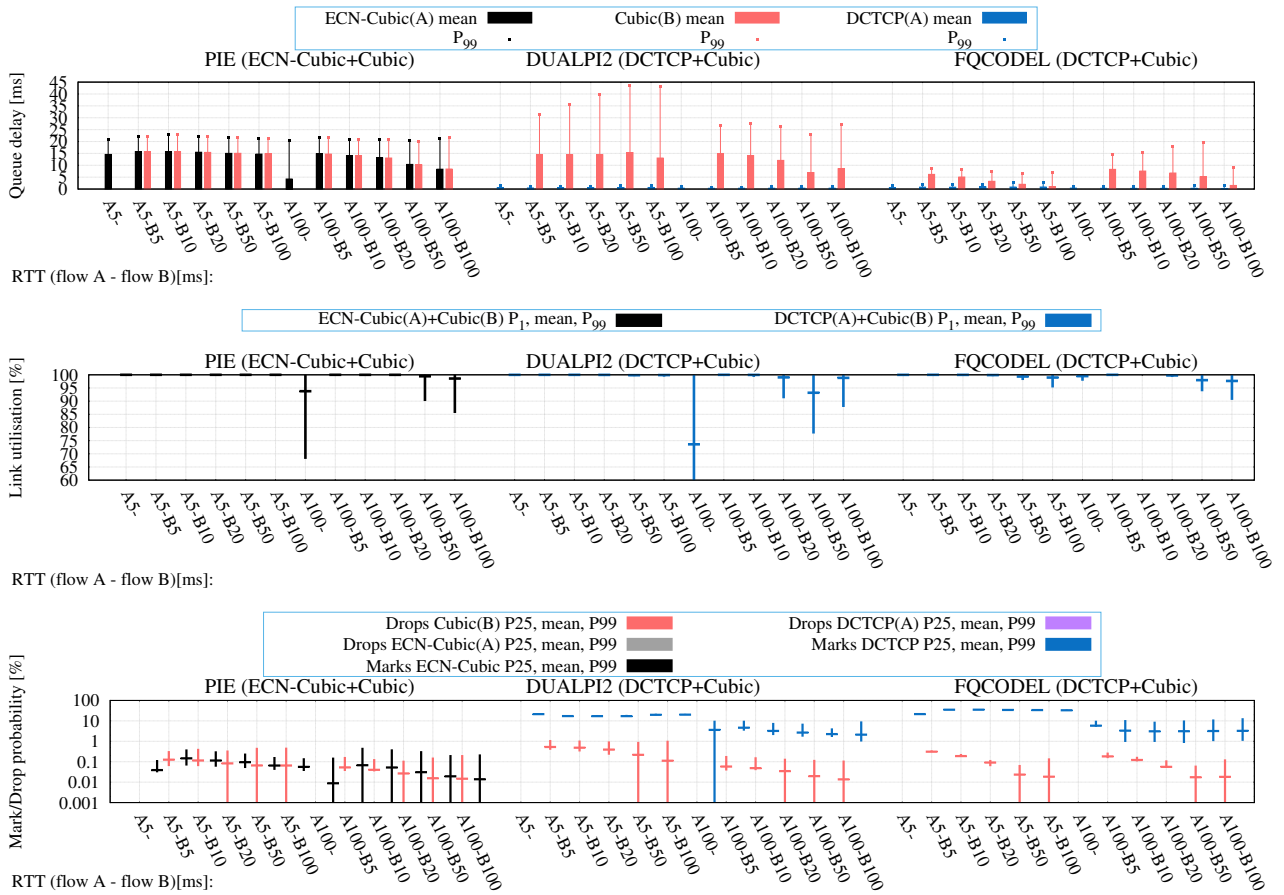


Figure B.2: 1 flow for each CC. Mixed RTT (mrtt2'link40)

# Appendix C

## Overload experiments

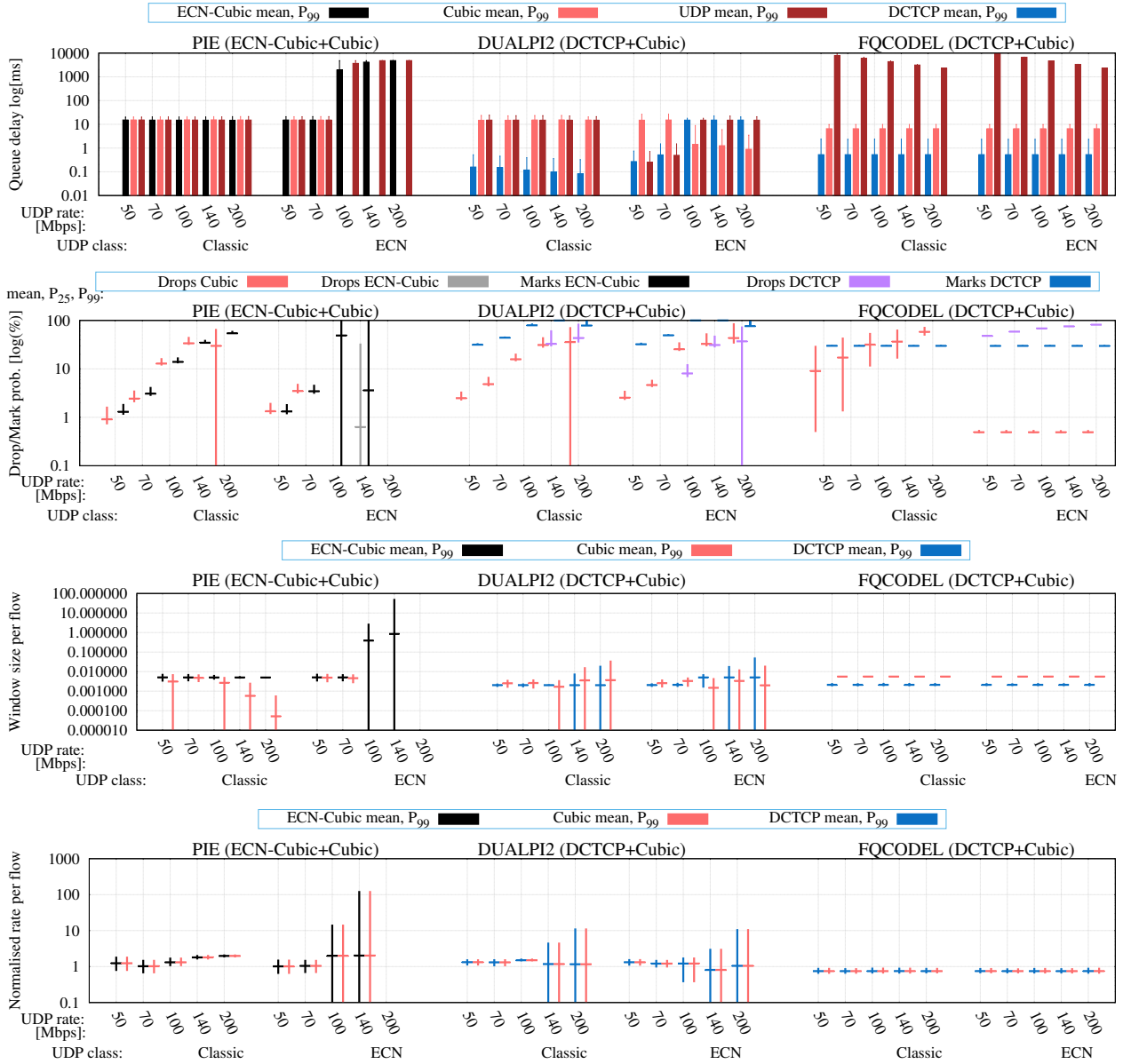


Figure C.1: Overload experiments. 1 flow for each CC