Comparing DUALPI2 with L4S ect option, using 2 competing flows (DCTCP + ECN-Cubic) and DUALPI2 with ANY ect option (DCTCP + Cubic) with FQ-CODEL (ce threshold of 1ms).

Full description of parameters:

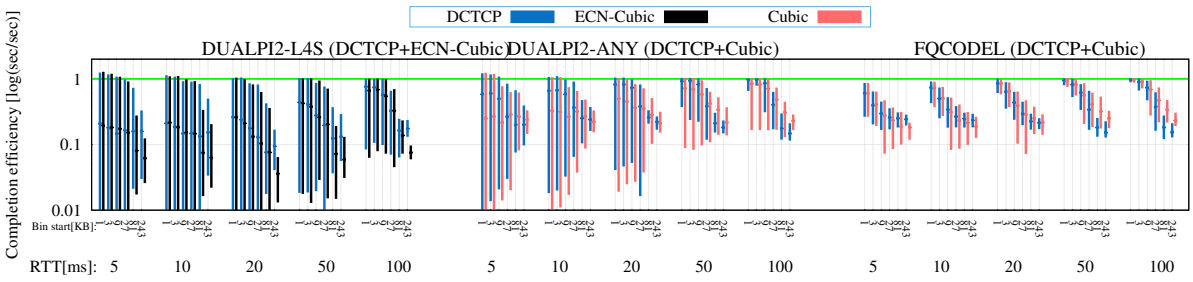
dualpi2rc-any: limit 40000p target 15.0ms tupdate 16.0ms alpha 0.156250 beta 3.195312 any_ect coupling_factor 2 drop_on_overload step_thresh 1.0ms drop_dequeue classic_protection 10%

dualpi2rc-l4s: limit 40000p target 15.0ms tupdate 16.0ms alpha 0.156250 beta 3.195312 l4s_ect coupling_factor 2 drop_on_overload step_thresh 1.0ms drop_dequeue classic_protection 10%

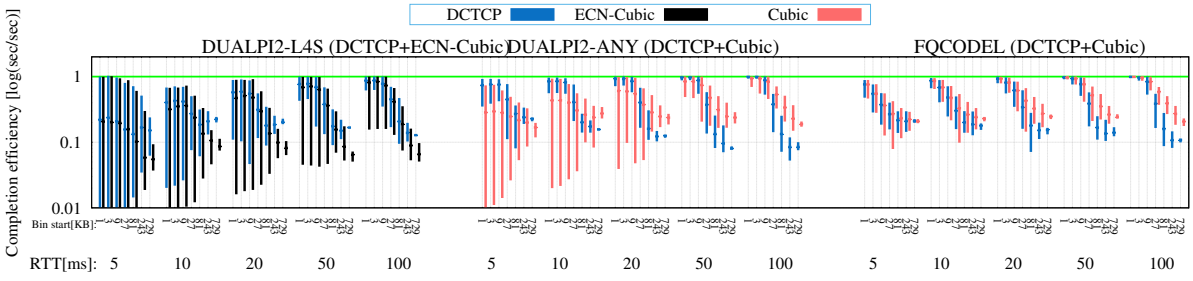
fqcodel: ecn ce_threshold 1ms

Appendix A

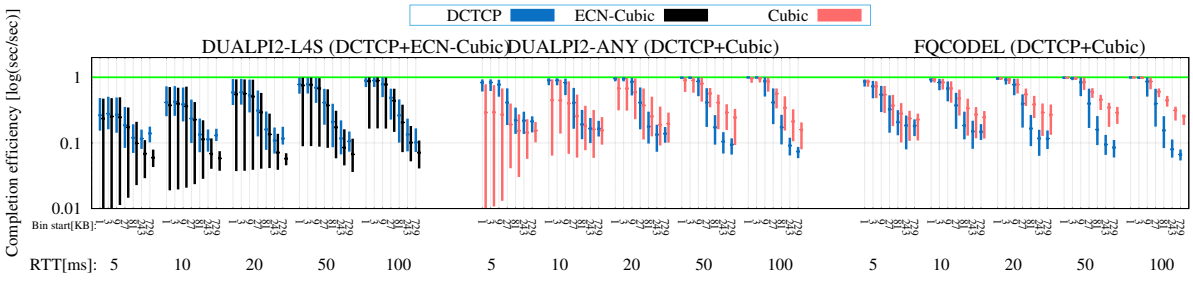
Equal RTT experiments



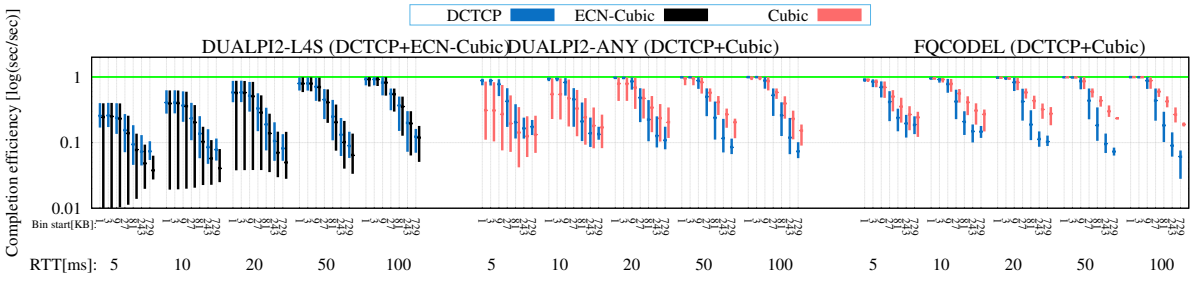
(a) 4Mbps link capacity



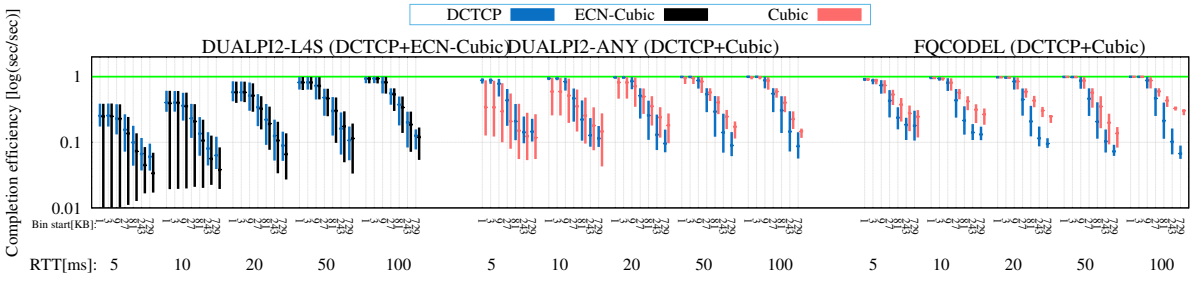
(b) 12Mbps link capacity



(c) 40Mbps link capacity



(d) 120 Mbps link capacity



(e) 200 Mbps link capacity

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

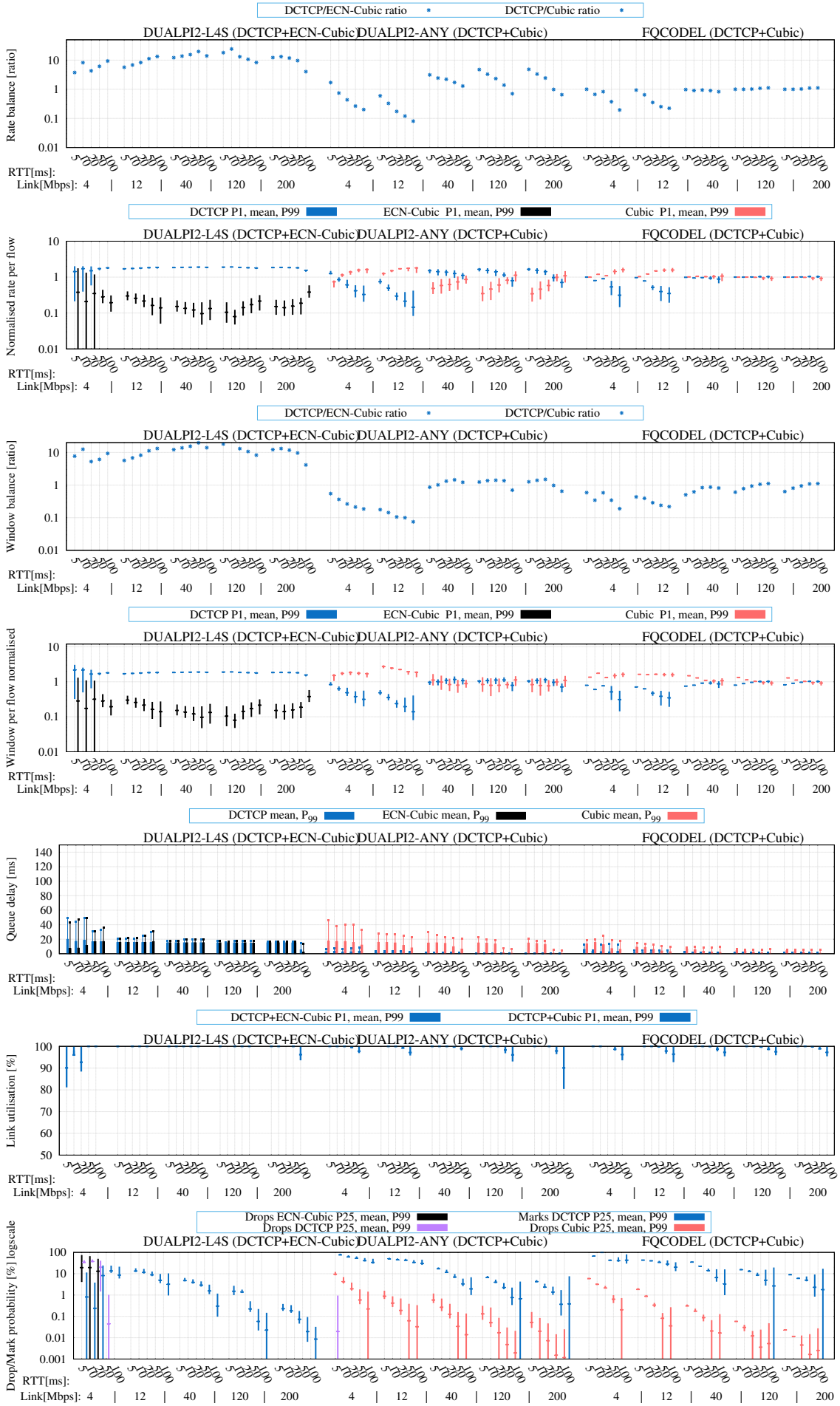


Figure A.2: Equal RTT (1-1)

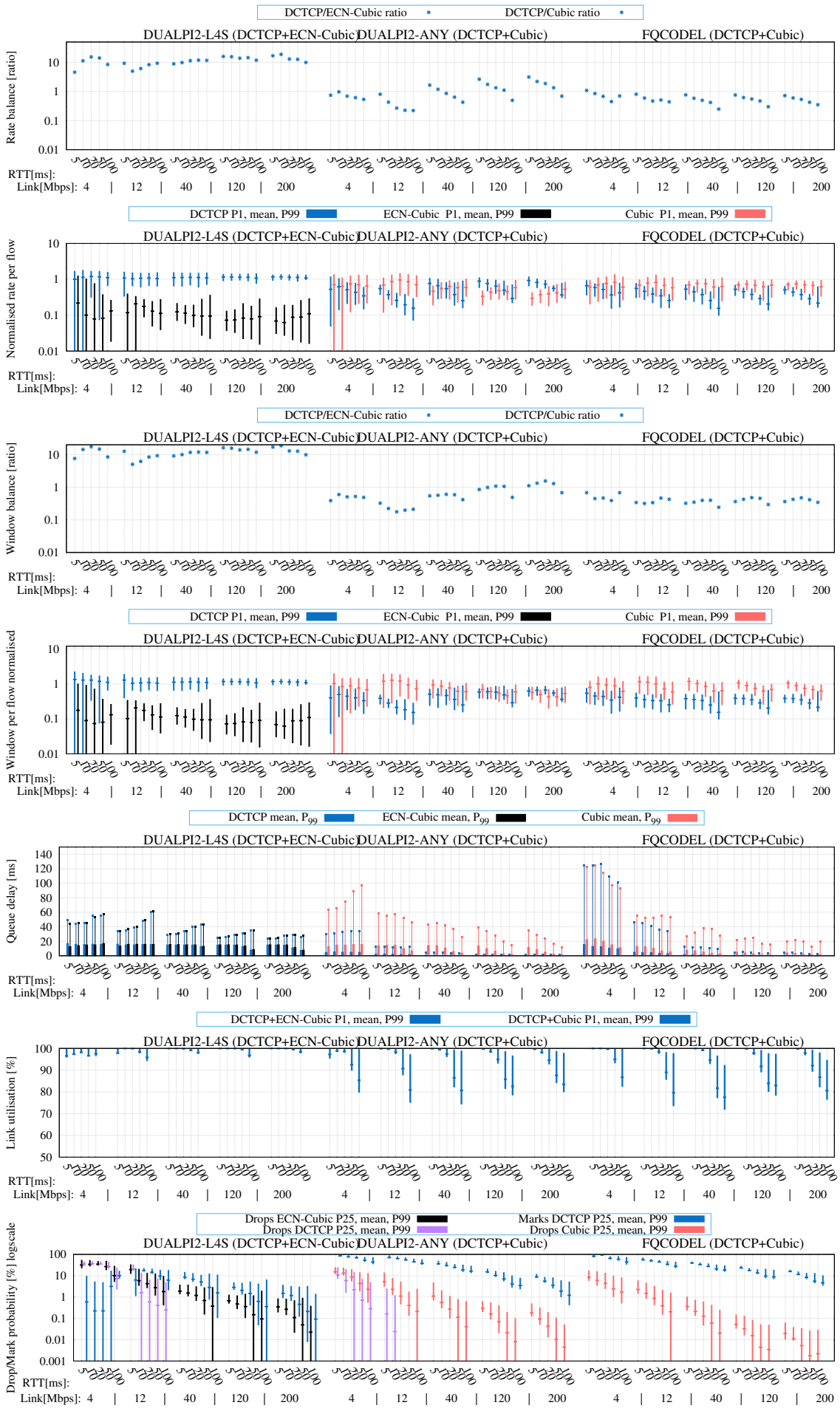


Figure A.3: Equal RTT (1h-1h)

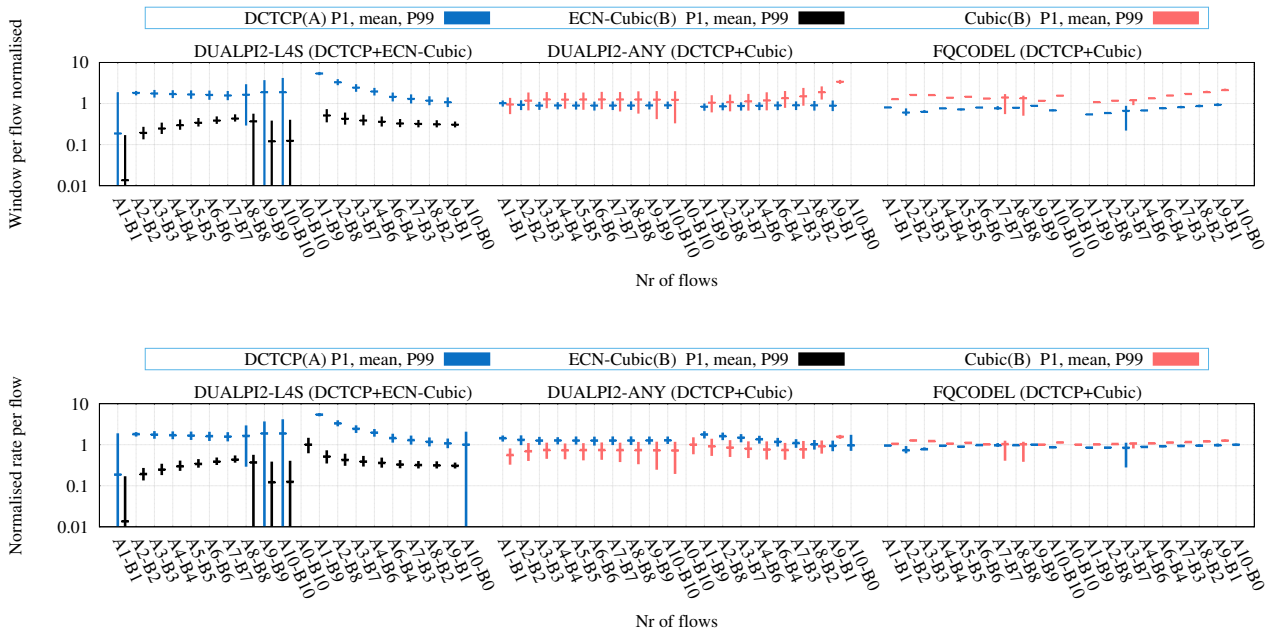
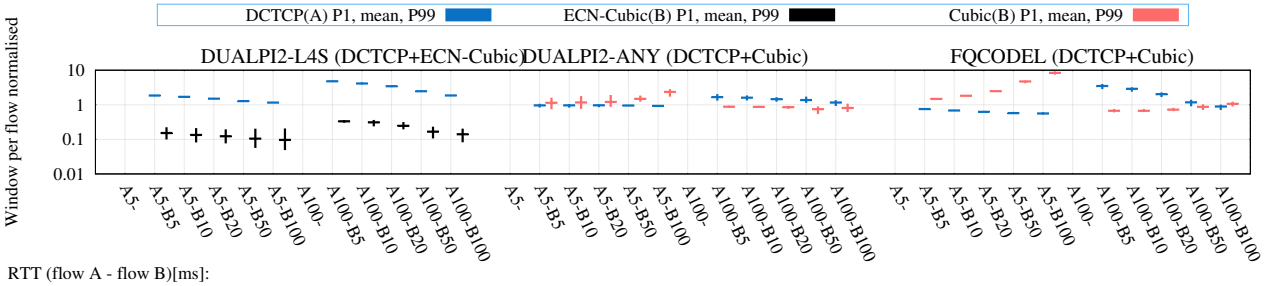


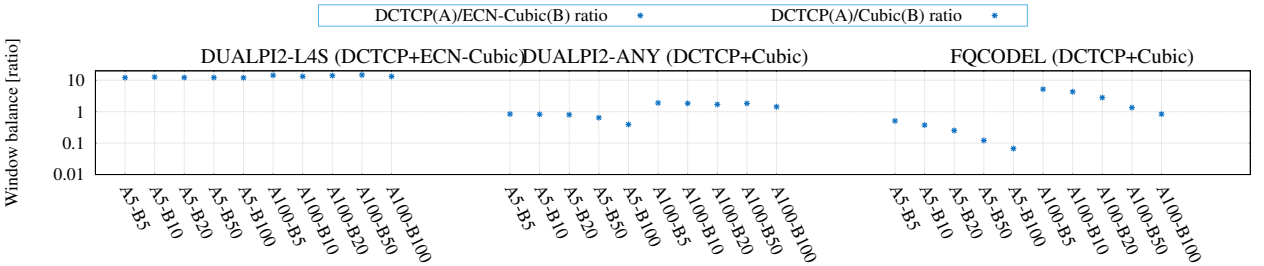
Figure A.4: Normalised rate and window size per flow. 40Mbps link capacity, 10ms RTT. Equal RTT

Appendix B

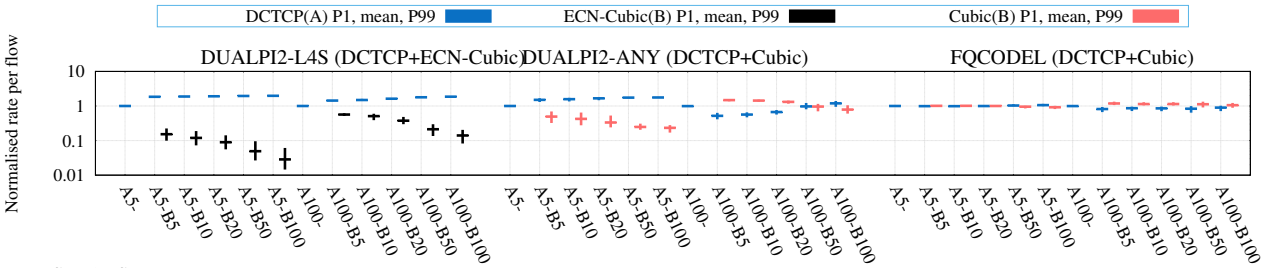
Mixed RTT experiments



RTT (flow A - flow B)[ms]:



RTT (flow A - flow B)[ms]:



RTT (flow A - flow B)[ms]:

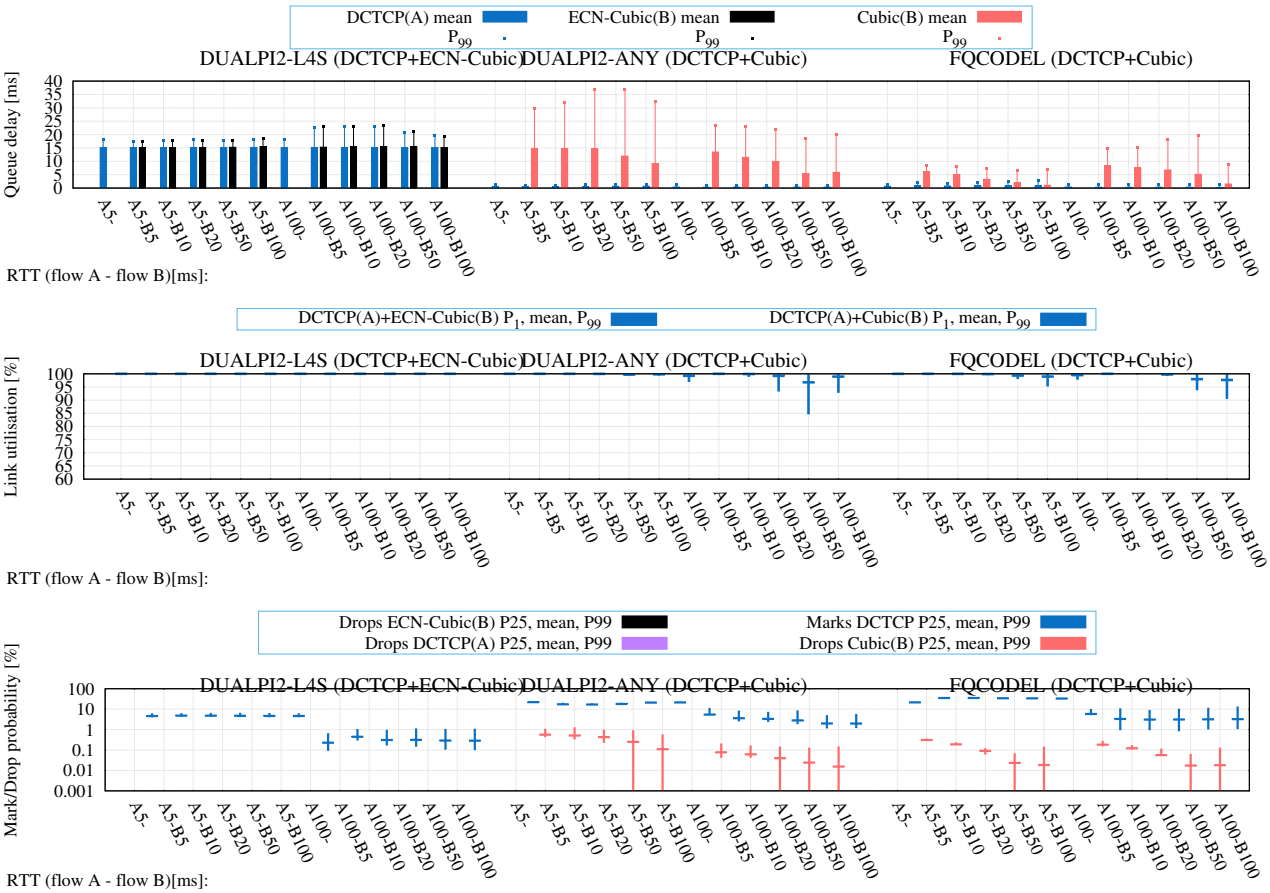


Figure B.2: 1 flow for each CC. Mixed RTT (mrtt2˙link40)

Appendix C

Overload experiments

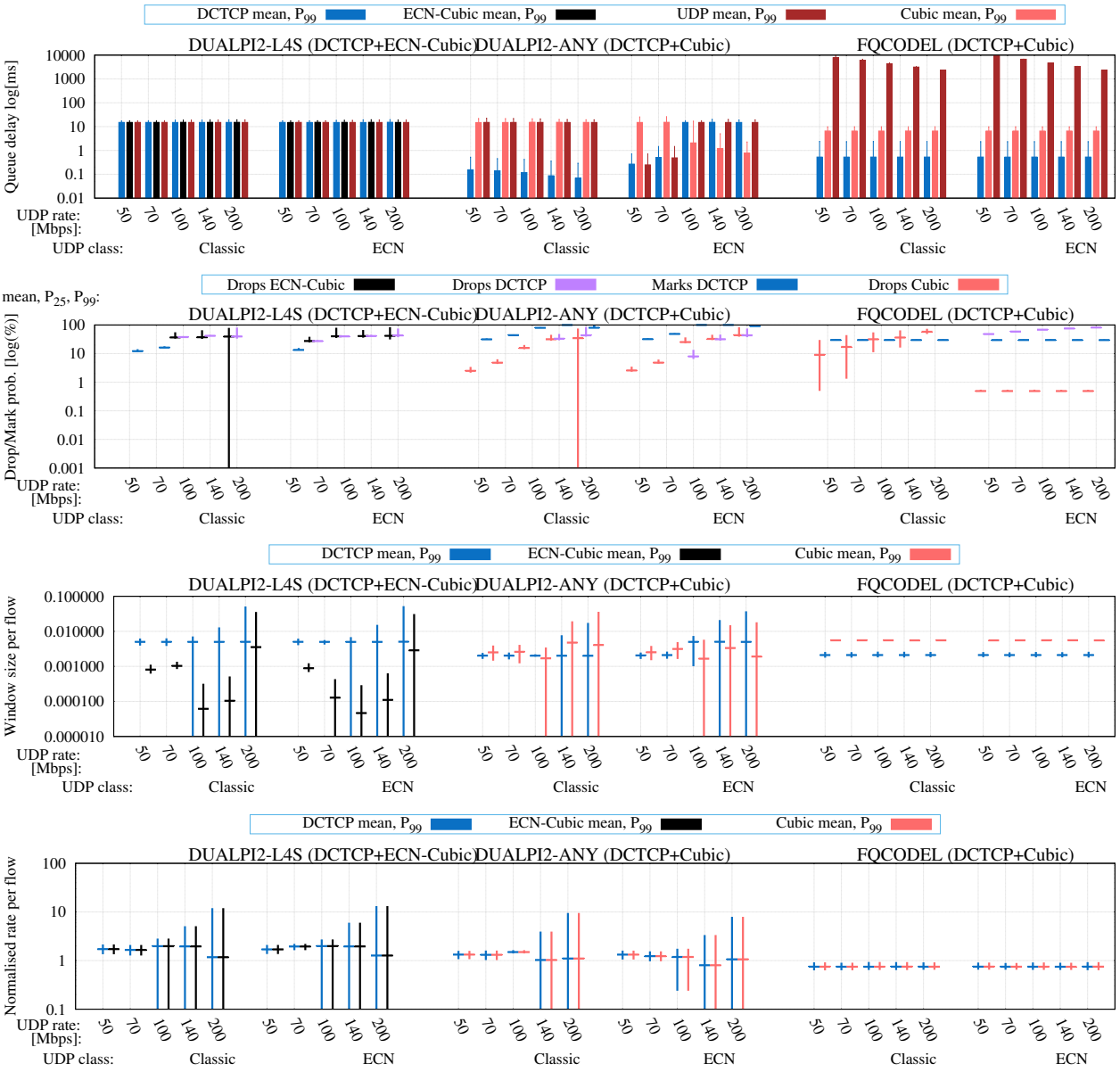


Figure C.1: Overload experiments. 1 flow for each CC