

## Pantheon Report

Generated at 2017-09-01 07:56:26 (UTC).

Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

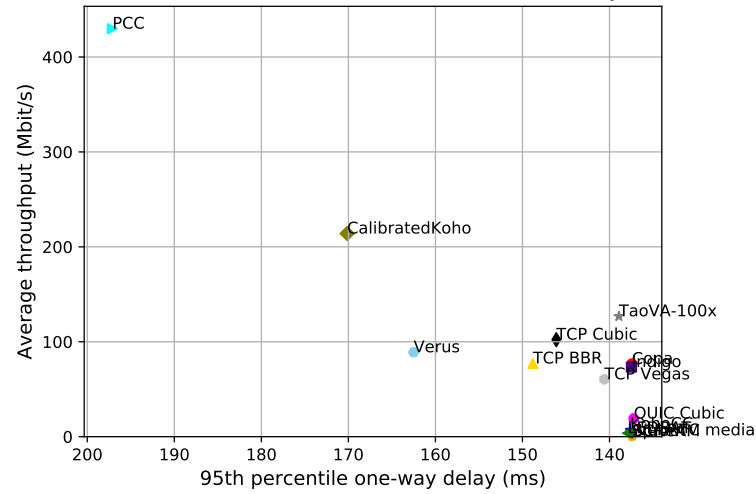
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

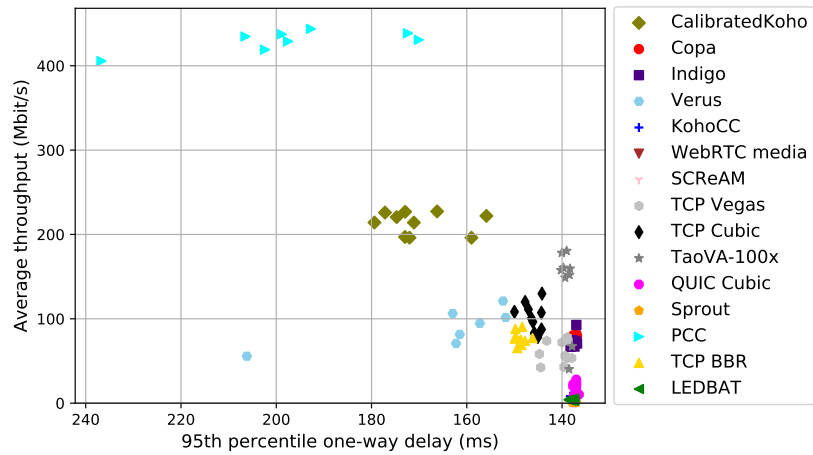
Git summary:

```
branch: master @ 5ea146acdebe79f5b9acfb2d9044554a7d2582ea
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 7ddb4adf480966042c0438984cb22a298bfa635f
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	38.42	39.82	37.75	148.35	148.73	150.72	0.28	0.14	0.05
CalibratedKoho	10	162.07	73.57	8.97	172.91	162.91	140.65	0.02	0.07	0.04
Copa	10	46.83	39.47	16.26	137.37	137.33	137.38	0.01	0.01	0.01
TCP Cubic	10	56.82	47.08	41.40	144.83	145.25	150.01	0.01	0.01	0.10
Indigo	10	32.05	48.29	29.50	137.39	137.57	137.43	0.08	0.01	0.01
KohoCC	8	4.16	4.07	3.84	137.68	137.57	137.68	0.11	0.02	0.02
LEDBAT	10	2.07	1.98	1.03	137.88	138.01	137.79	0.37	0.35	0.54
PCC	8	270.65	177.81	122.70	249.21	152.16	142.22	1.69	0.00	0.03
QUIC Cubic	10	0.04	20.88	16.63	136.62	136.70	137.09	0.00	0.01	0.01
SCReAM	10	0.21	0.22	0.20	136.83	136.65	137.16	0.03	0.02	0.07
Sprout	7	0.40	0.41	0.41	137.31	137.36	137.35	0.01	0.02	0.00
TaoVA-100x	10	93.58	36.72	35.10	138.75	138.31	138.66	0.01	0.01	0.01
TCP Vegas	10	30.80	28.98	31.34	138.88	141.12	140.94	0.00	0.03	0.02
Verus	8	55.70	35.32	29.38	152.68	183.25	148.91	0.01	0.06	0.01
WebRTC media	10	0.21	1.19	0.18	137.99	137.19	137.94	0.00	0.04	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-01 03:53:02

End at: 2017-09-01 03:53:32

# Below is generated by plot.py at 2017-09-01 07:32:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.41 Mbit/s

95th percentile per-packet one-way delay: 148.695 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 147.834 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 150.790 ms

Loss rate: 1.16%

-- Flow 3:

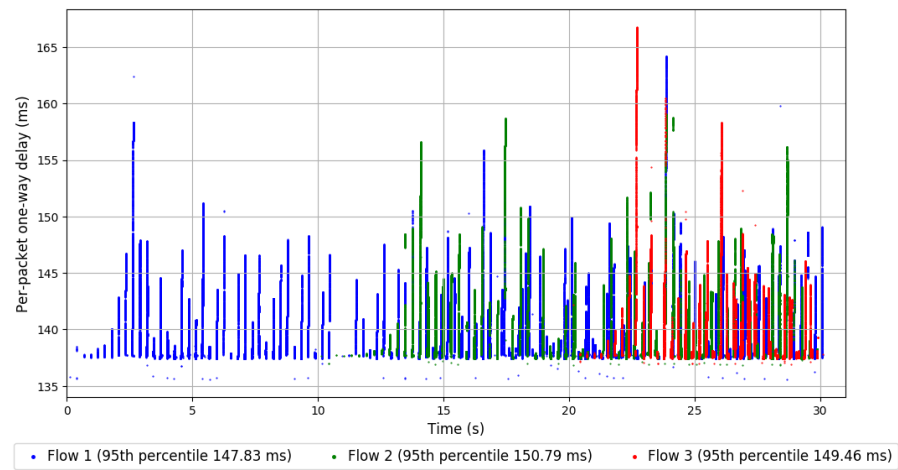
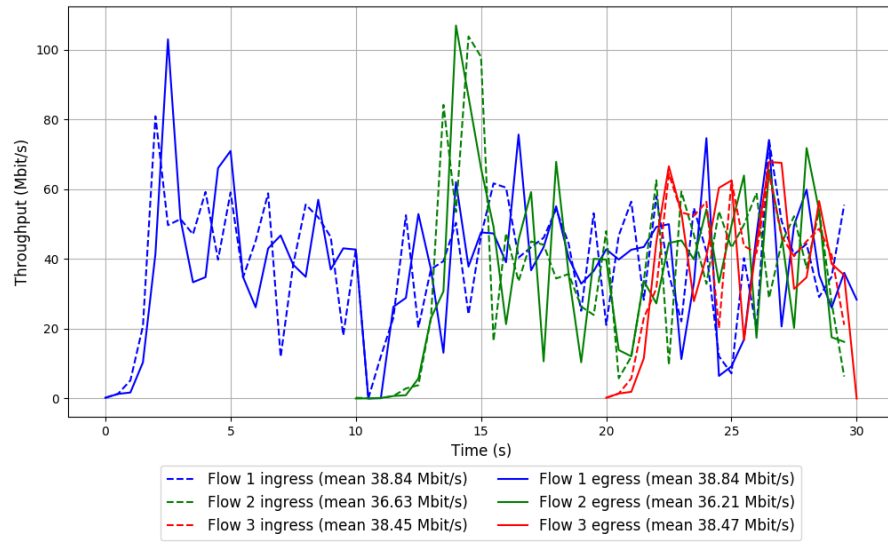
Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 149.461 ms

Loss rate: 0.00%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-01 04:07:21

End at: 2017-09-01 04:07:51

# Below is generated by plot.py at 2017-09-01 07:33:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.48 Mbit/s

95th percentile per-packet one-way delay: 148.364 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 148.783 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 56.00 Mbit/s

95th percentile per-packet one-way delay: 148.673 ms

Loss rate: 0.00%

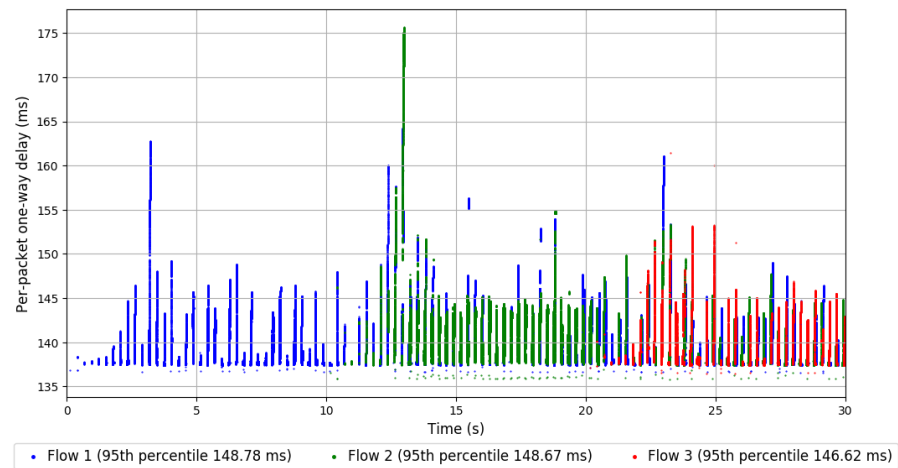
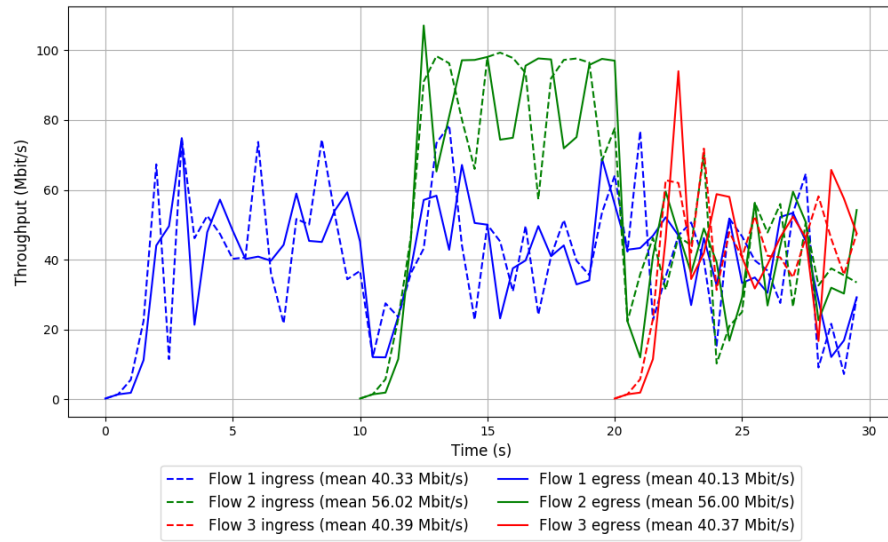
-- Flow 3:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 146.621 ms

Loss rate: 0.00%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-01 04:21:11

End at: 2017-09-01 04:21:41

# Below is generated by plot.py at 2017-09-01 07:33:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 149.816 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 147.997 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 149.263 ms

Loss rate: 0.01%

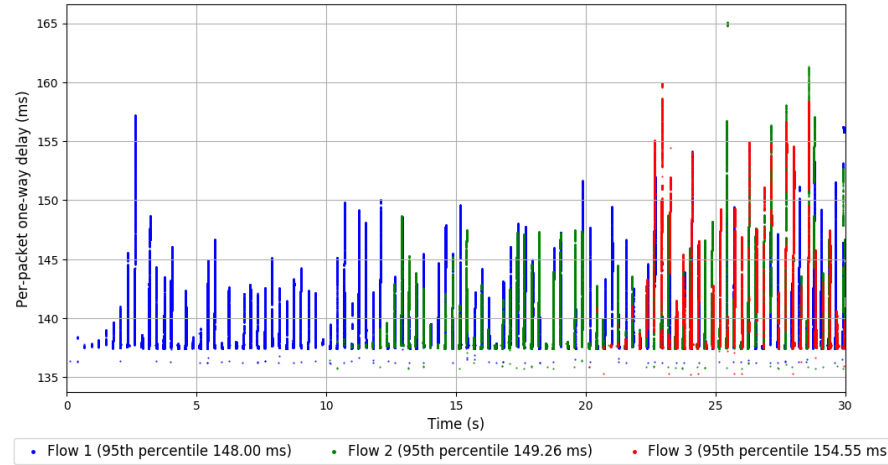
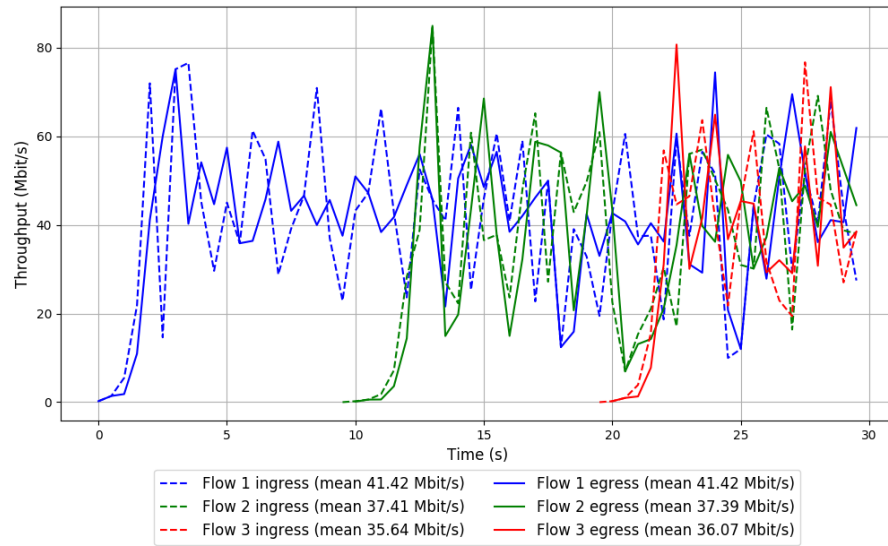
-- Flow 3:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 154.547 ms

Loss rate: 0.00%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-01 04:35:12

End at: 2017-09-01 04:35:42

# Below is generated by plot.py at 2017-09-01 07:33:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.92 Mbit/s

95th percentile per-packet one-way delay: 148.554 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 149.223 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 147.838 ms

Loss rate: 0.00%

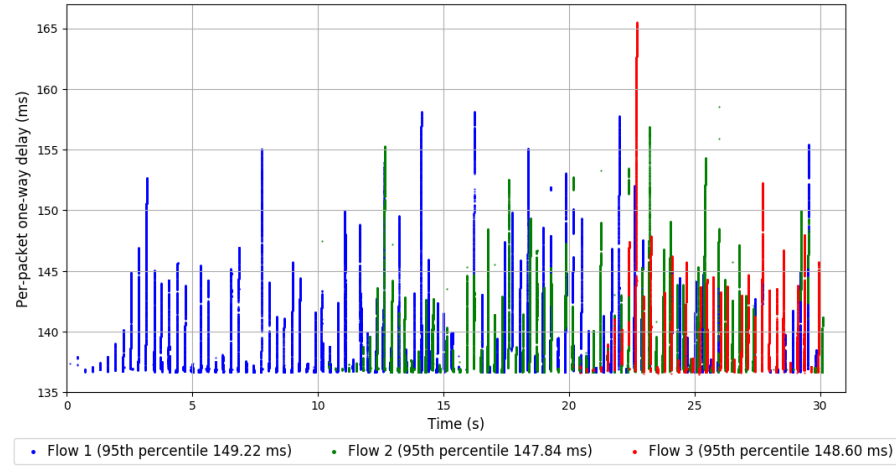
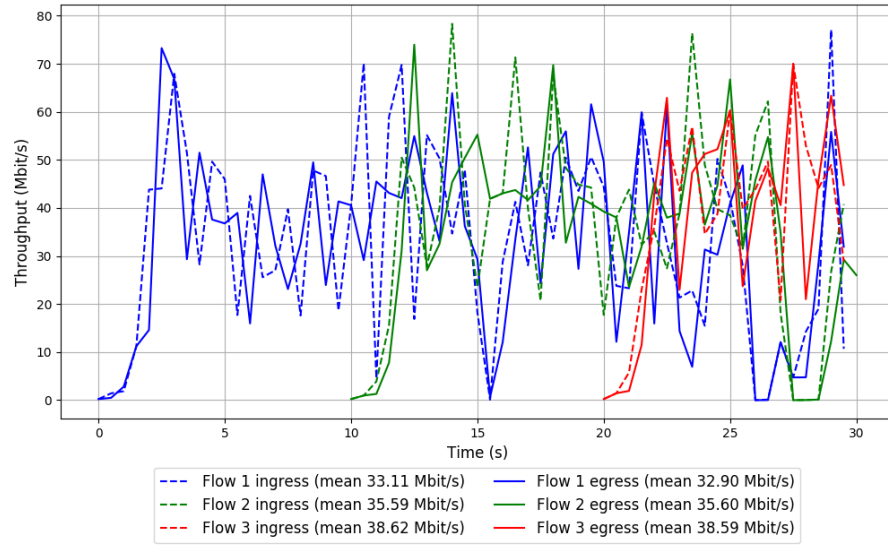
-- Flow 3:

Average throughput: 38.59 Mbit/s

95th percentile per-packet one-way delay: 148.597 ms

Loss rate: 0.00%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-01 04:49:22

End at: 2017-09-01 04:49:52

# Below is generated by plot.py at 2017-09-01 07:33:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 146.190 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 146.507 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 39.50 Mbit/s

95th percentile per-packet one-way delay: 144.956 ms

Loss rate: 0.01%

-- Flow 3:

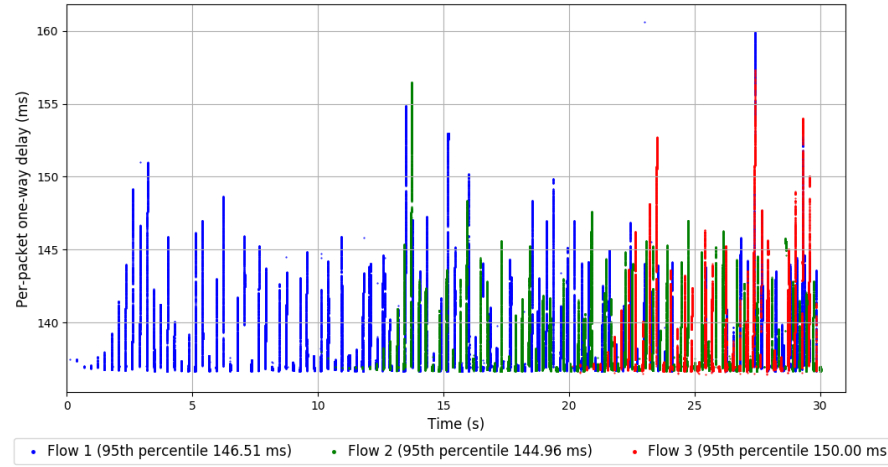
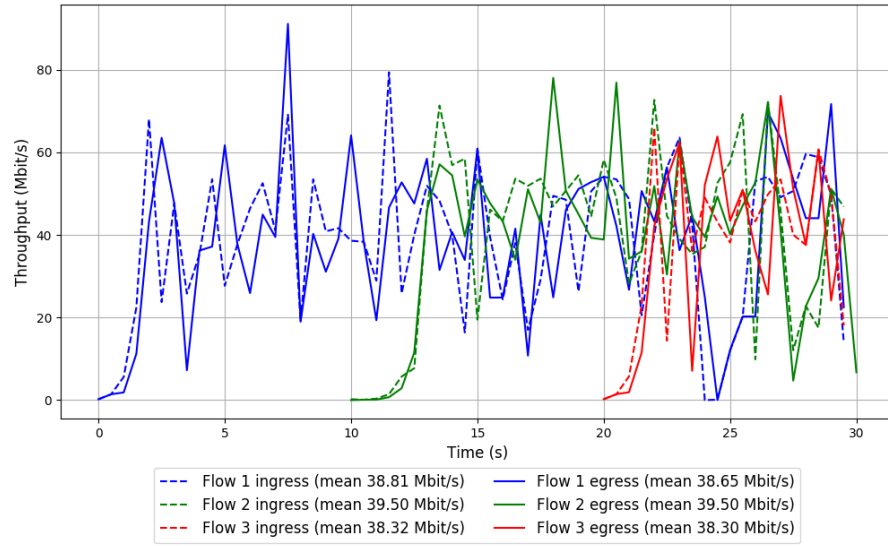
Average throughput: 38.30 Mbit/s

95th percentile per-packet one-way delay: 150.001 ms

Loss rate: 0.00%



## Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-01 05:03:22

End at: 2017-09-01 05:03:52

# Below is generated by plot.py at 2017-09-01 07:33:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.48 Mbit/s

95th percentile per-packet one-way delay: 149.914 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 37.64 Mbit/s

95th percentile per-packet one-way delay: 149.599 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 149.637 ms

Loss rate: 0.00%

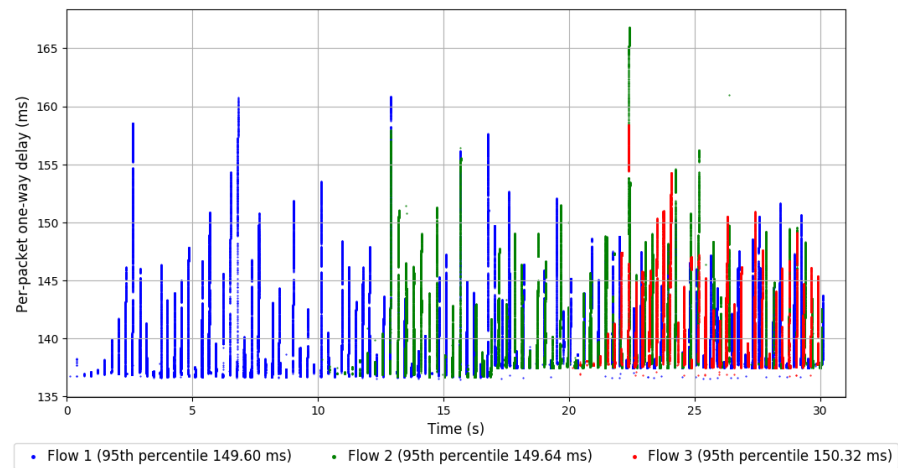
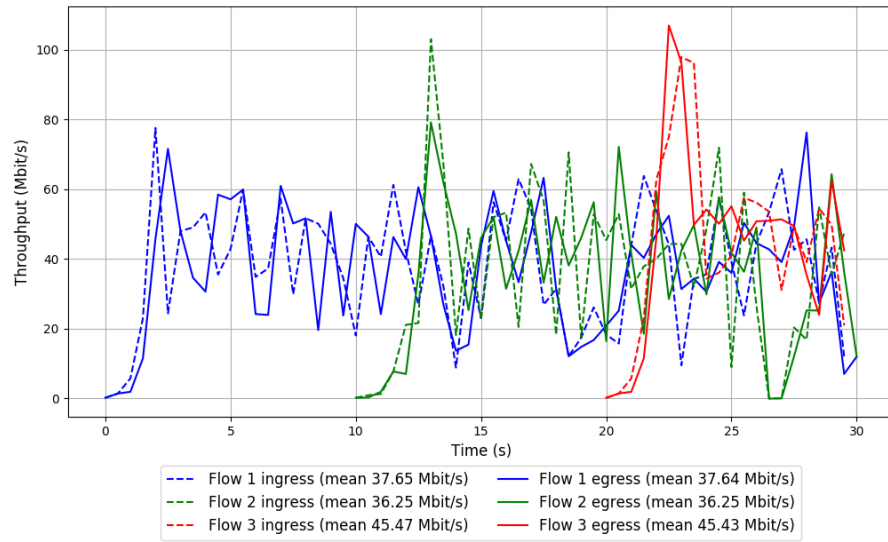
-- Flow 3:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 150.320 ms

Loss rate: 0.00%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-01 05:17:03

End at: 2017-09-01 05:17:33

# Below is generated by plot.py at 2017-09-01 07:33:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.21 Mbit/s

95th percentile per-packet one-way delay: 149.410 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 31.17 Mbit/s

95th percentile per-packet one-way delay: 147.570 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 149.441 ms

Loss rate: 0.27%

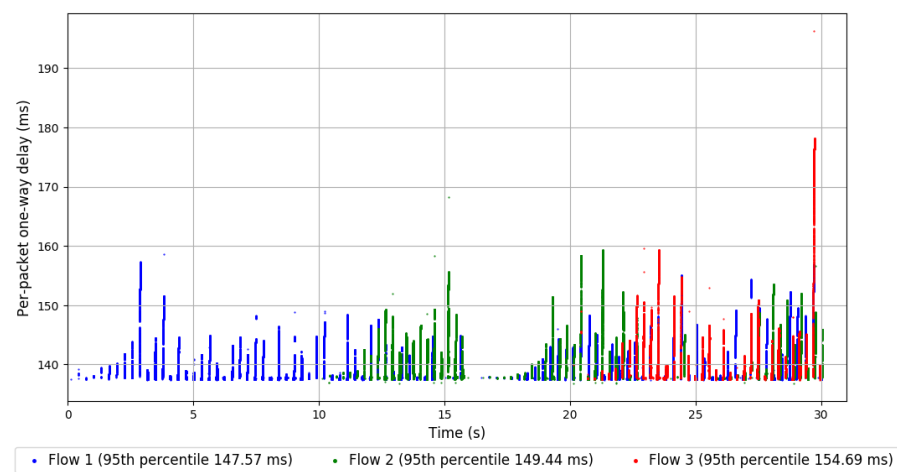
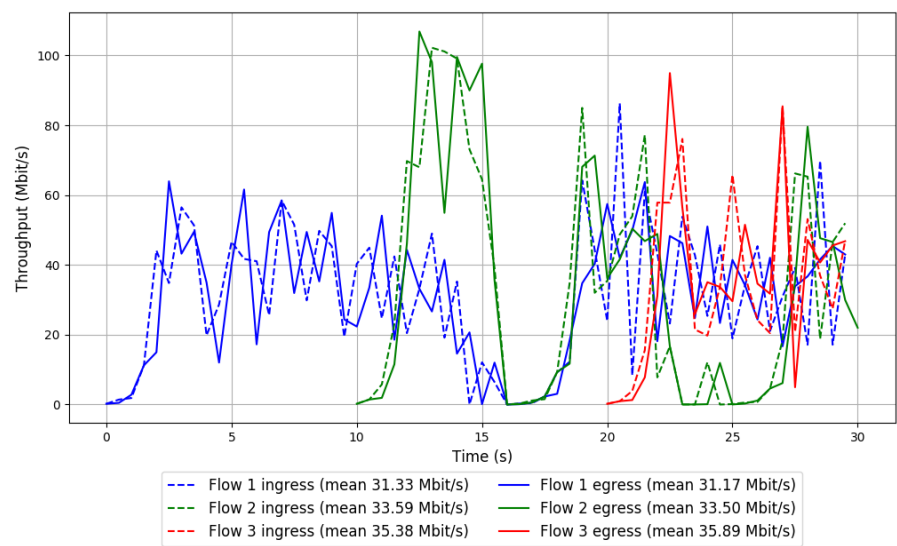
-- Flow 3:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 154.695 ms

Loss rate: 0.02%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-01 05:30:52

End at: 2017-09-01 05:31:22

# Below is generated by plot.py at 2017-09-01 07:33:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.46 Mbit/s

95th percentile per-packet one-way delay: 149.567 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 147.233 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 149.792 ms

Loss rate: 0.00%

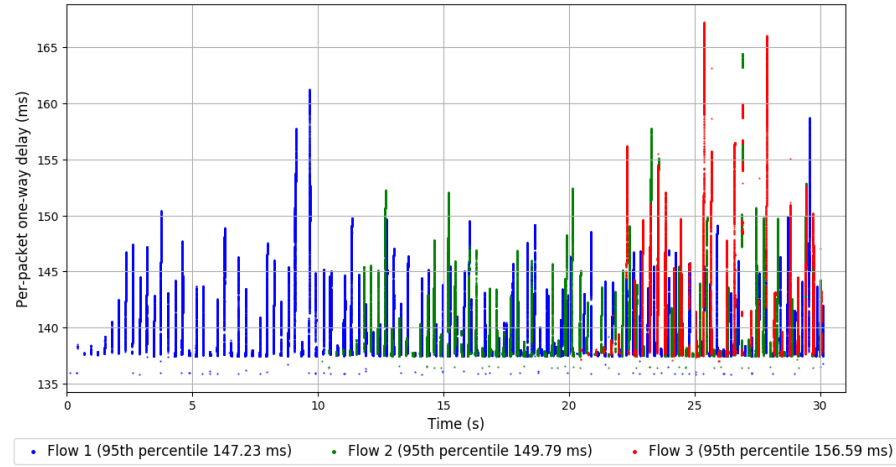
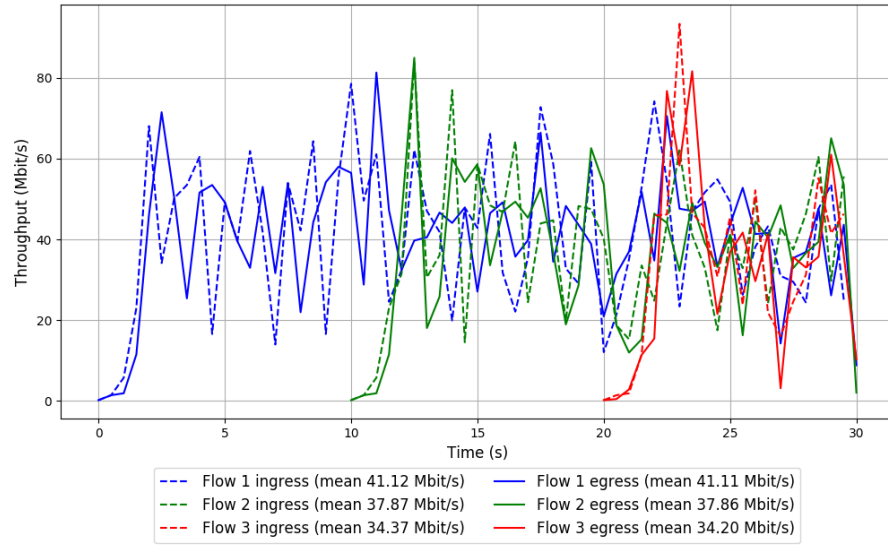
-- Flow 3:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 156.592 ms

Loss rate: 0.47%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-01 05:44:56

End at: 2017-09-01 05:45:26

# Below is generated by plot.py at 2017-09-01 07:34:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.95 Mbit/s

95th percentile per-packet one-way delay: 147.787 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 147.591 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 148.083 ms

Loss rate: 0.00%

-- Flow 3:

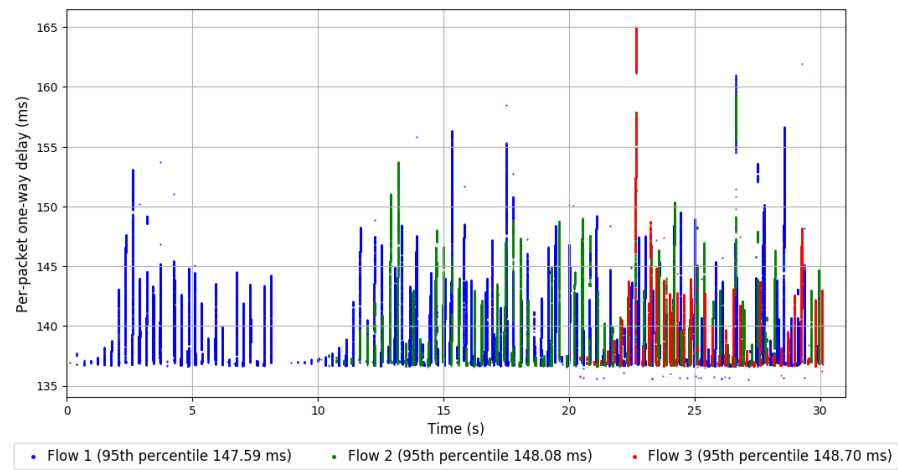
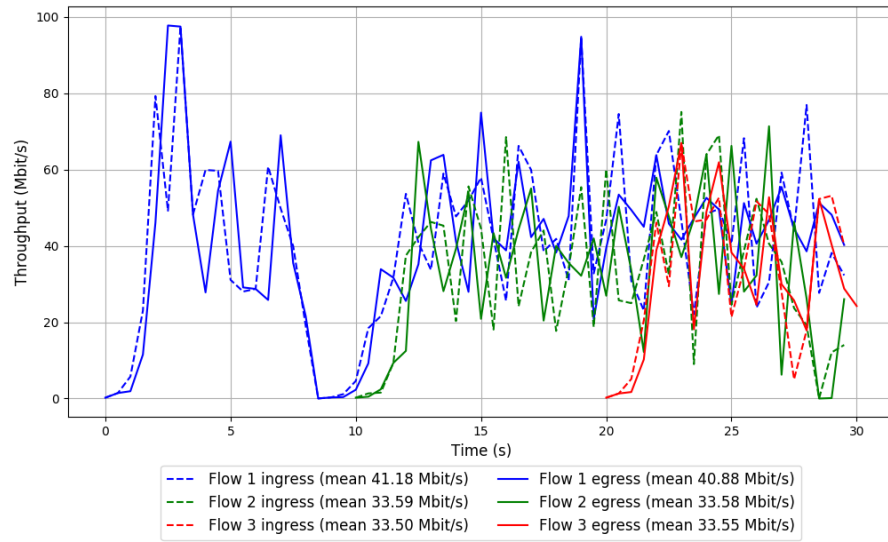
Average throughput: 33.55 Mbit/s

95th percentile per-packet one-way delay: 148.703 ms

Loss rate: 0.00%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-01 05:59:05

End at: 2017-09-01 05:59:35

# Below is generated by plot.py at 2017-09-01 07:34:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.04 Mbit/s

95th percentile per-packet one-way delay: 149.782 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.48 Mbit/s

95th percentile per-packet one-way delay: 151.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 148.787 ms

Loss rate: 0.00%

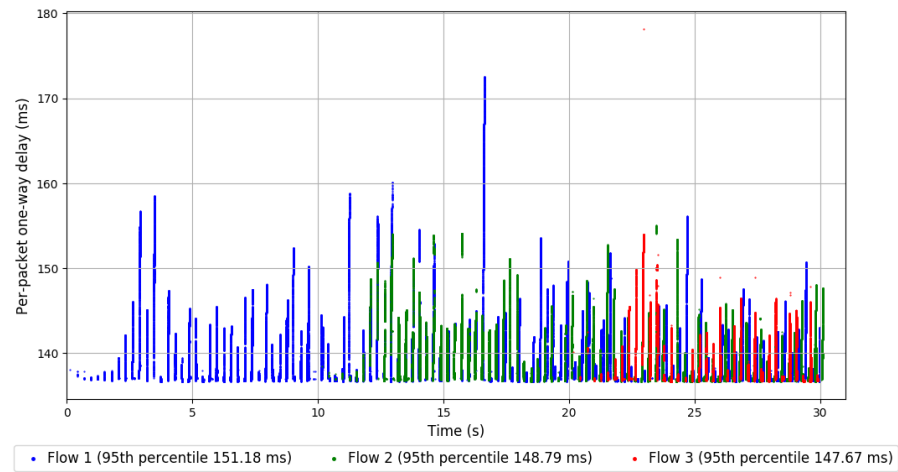
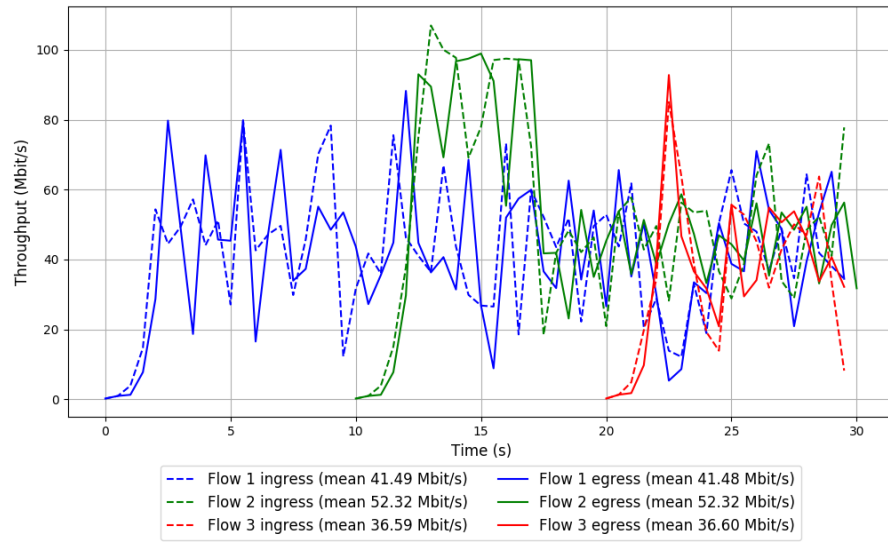
-- Flow 3:

Average throughput: 36.60 Mbit/s

95th percentile per-packet one-way delay: 147.667 ms

Loss rate: 0.00%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of CalibratedKoho

Start at: 2017-09-01 04:02:33

End at: 2017-09-01 04:03:03

# Below is generated by plot.py at 2017-09-01 07:34:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.15 Mbit/s

95th percentile per-packet one-way delay: 179.385 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.79 Mbit/s

95th percentile per-packet one-way delay: 184.609 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 163.501 ms

Loss rate: 0.00%

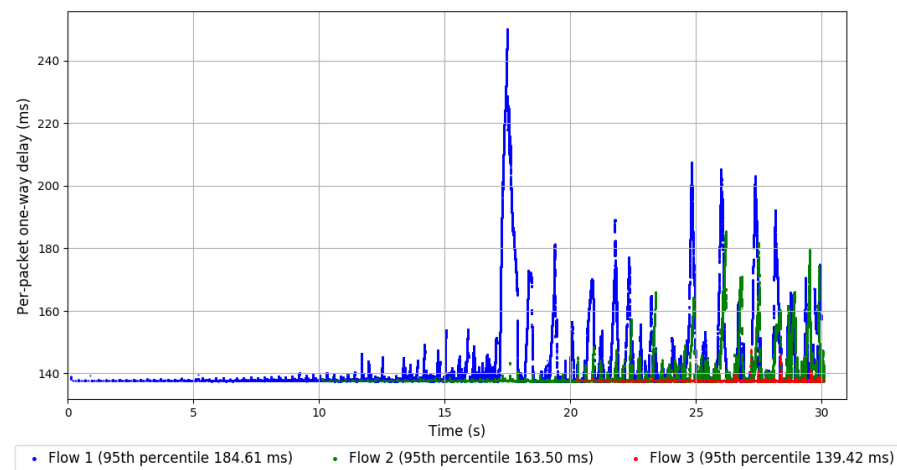
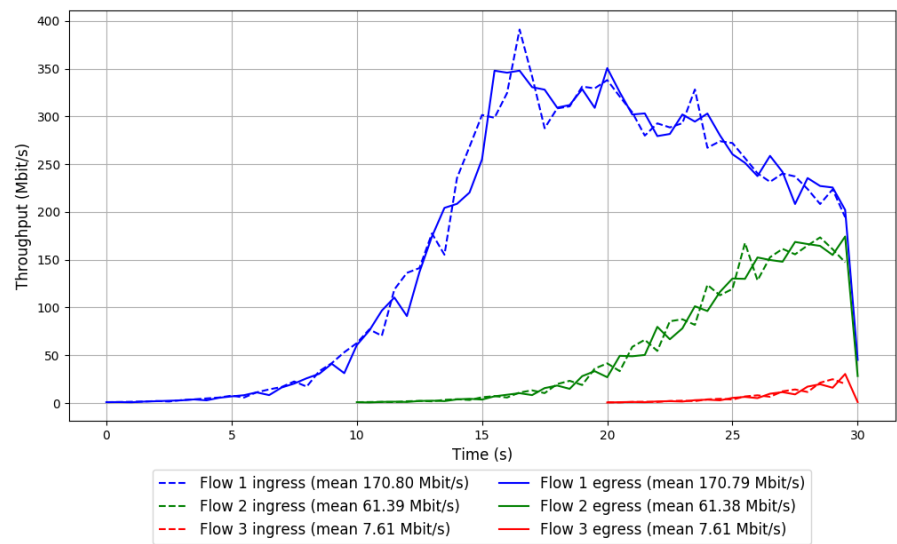
-- Flow 3:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 139.424 ms

Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-09-01 04:16:24

End at: 2017-09-01 04:16:54

# Below is generated by plot.py at 2017-09-01 07:34:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 226.87 Mbit/s

95th percentile per-packet one-way delay: 172.938 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 177.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 165.846 ms

Loss rate: 0.34%

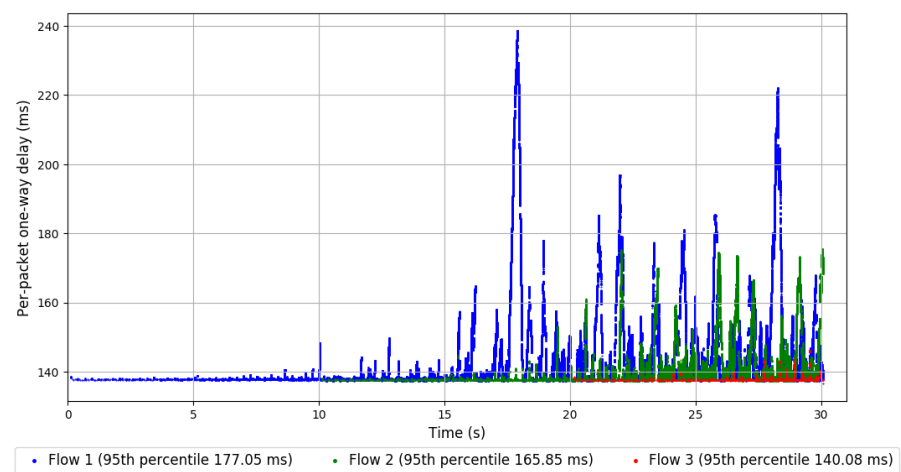
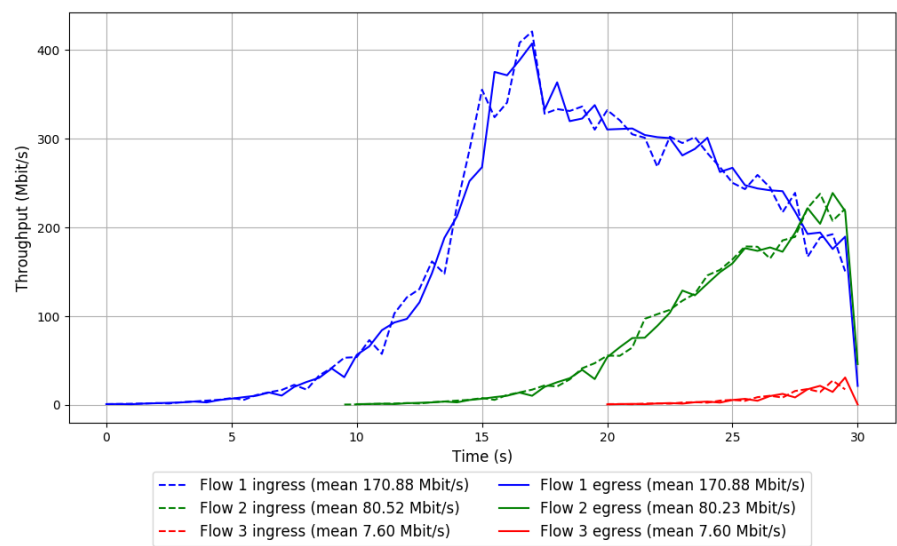
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 140.081 ms

Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-09-01 04:30:25

End at: 2017-09-01 04:30:55

# Below is generated by plot.py at 2017-09-01 07:35:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 225.95 Mbit/s

95th percentile per-packet one-way delay: 177.167 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 166.95 Mbit/s

95th percentile per-packet one-way delay: 178.628 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 173.661 ms

Loss rate: 0.29%

-- Flow 3:

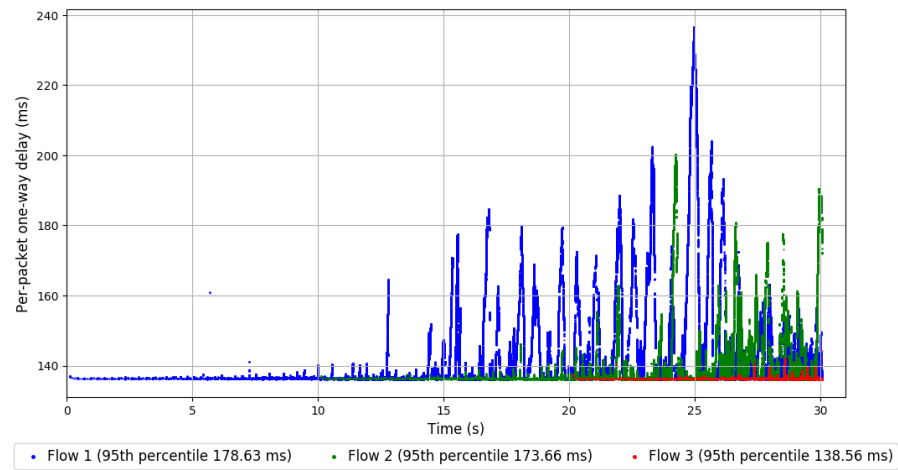
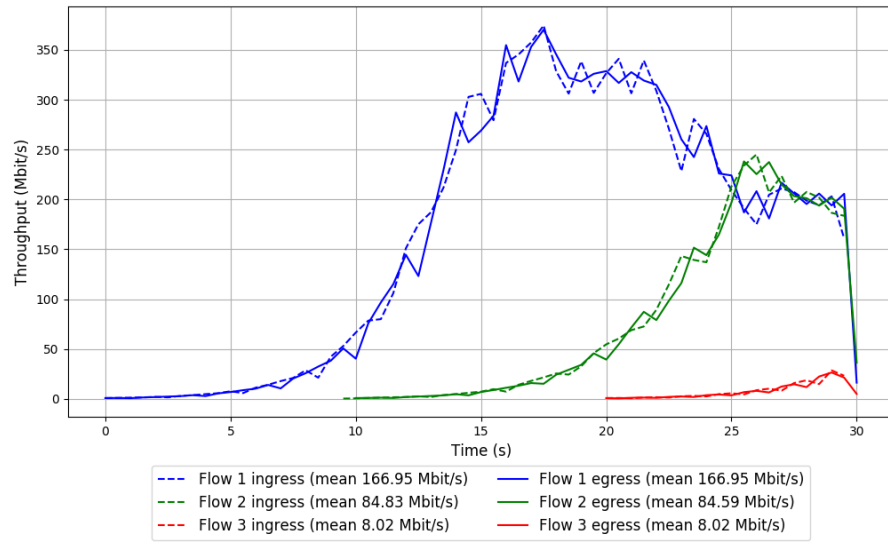
Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 138.563 ms

Loss rate: 0.00%



### Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-09-01 04:44:30

End at: 2017-09-01 04:45:00

# Below is generated by plot.py at 2017-09-01 07:35:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 220.54 Mbit/s

95th percentile per-packet one-way delay: 174.724 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 168.52 Mbit/s

95th percentile per-packet one-way delay: 177.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 168.906 ms

Loss rate: 0.00%

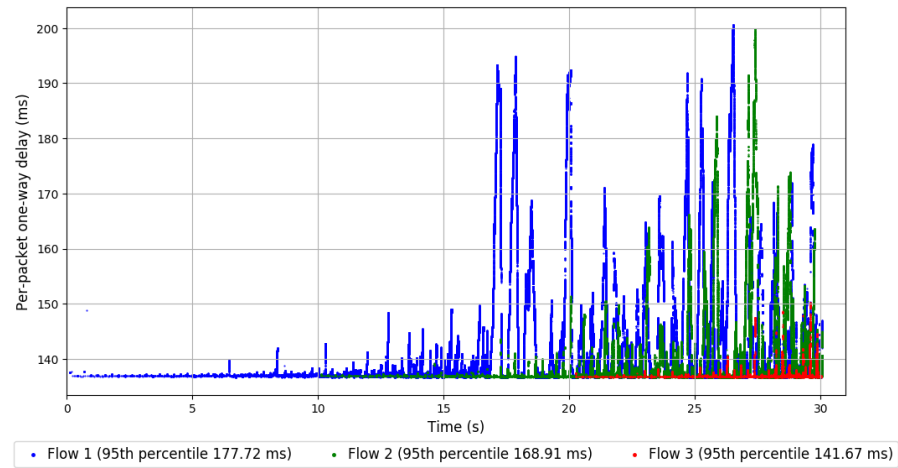
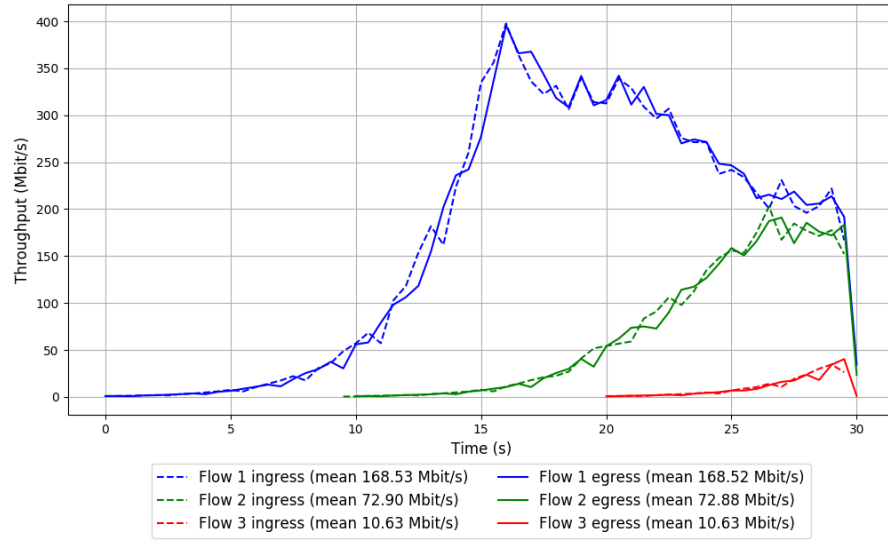
-- Flow 3:

Average throughput: 10.63 Mbit/s

95th percentile per-packet one-way delay: 141.668 ms

Loss rate: 0.00%

# Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-09-01 04:58:36

End at: 2017-09-01 04:59:06

# Below is generated by plot.py at 2017-09-01 07:36:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.02 Mbit/s

95th percentile per-packet one-way delay: 172.964 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.94 Mbit/s

95th percentile per-packet one-way delay: 173.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.90 Mbit/s

95th percentile per-packet one-way delay: 164.361 ms

Loss rate: 0.00%

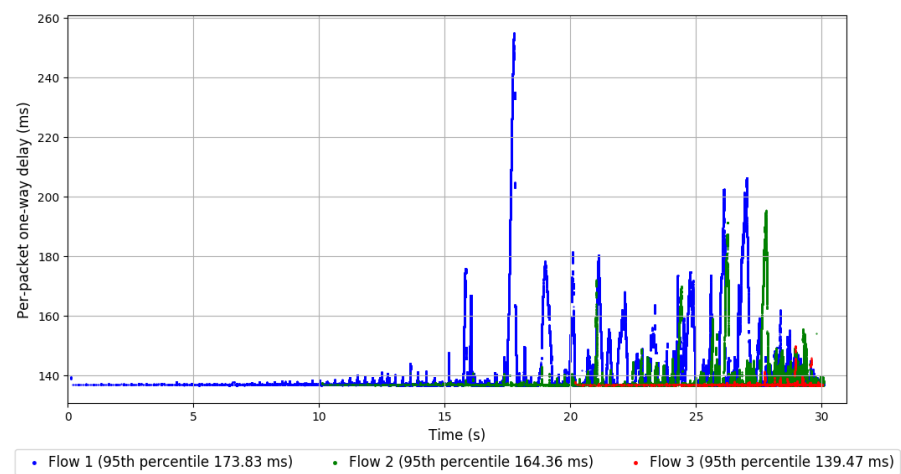
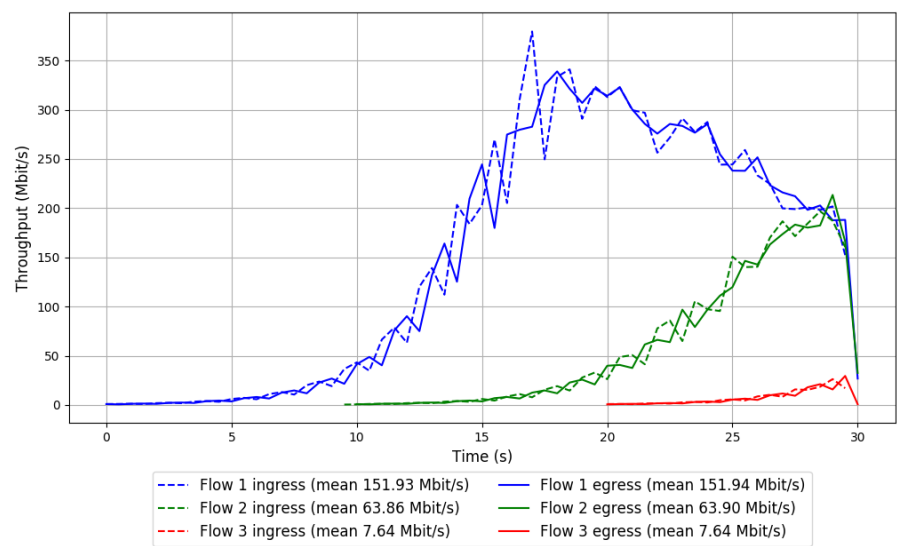
-- Flow 3:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 139.467 ms

Loss rate: 0.00%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-09-01 05:12:20

End at: 2017-09-01 05:12:50

# Below is generated by plot.py at 2017-09-01 07:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 196.12 Mbit/s

95th percentile per-packet one-way delay: 159.022 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 143.13 Mbit/s

95th percentile per-packet one-way delay: 158.709 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 73.84 Mbit/s

95th percentile per-packet one-way delay: 164.173 ms

Loss rate: 0.01%

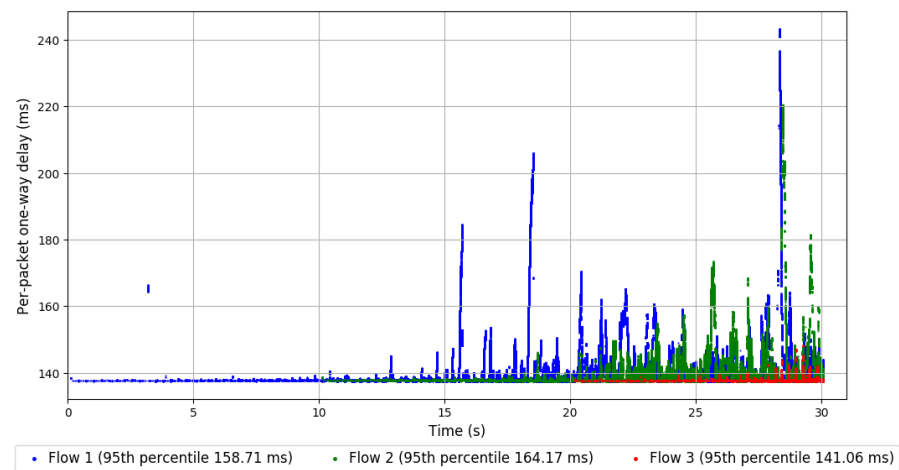
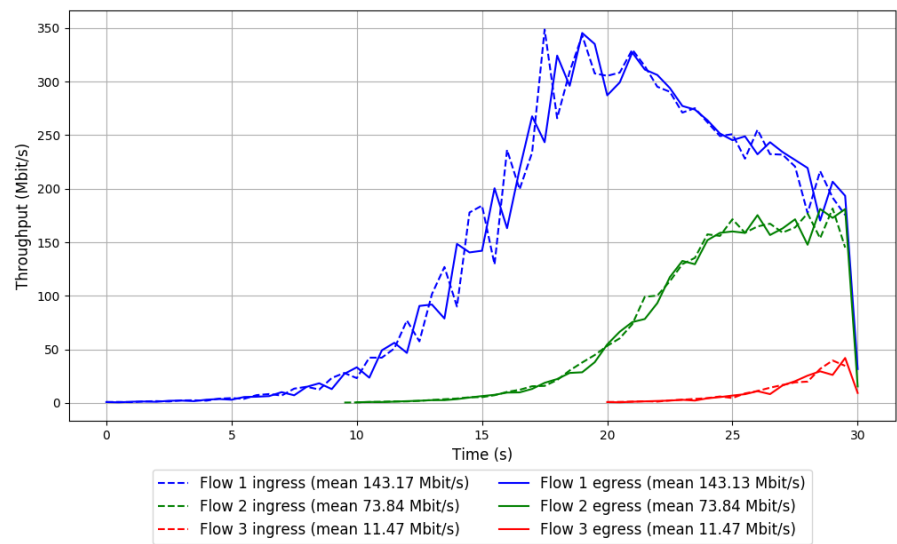
-- Flow 3:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 141.064 ms

Loss rate: 0.00%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-09-01 05:26:04

End at: 2017-09-01 05:26:34

# Below is generated by plot.py at 2017-09-01 07:36:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 222.00 Mbit/s

95th percentile per-packet one-way delay: 155.882 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 165.07 Mbit/s

95th percentile per-packet one-way delay: 156.590 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 81.71 Mbit/s

95th percentile per-packet one-way delay: 151.127 ms

Loss rate: 0.00%

-- Flow 3:

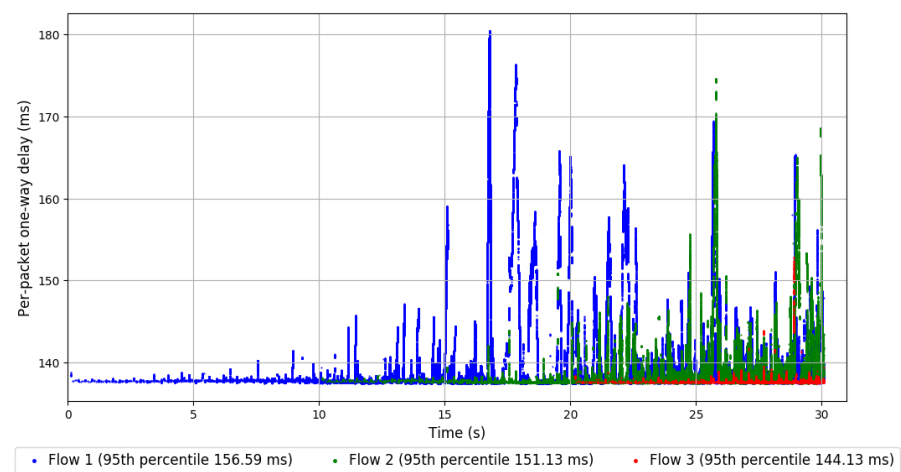
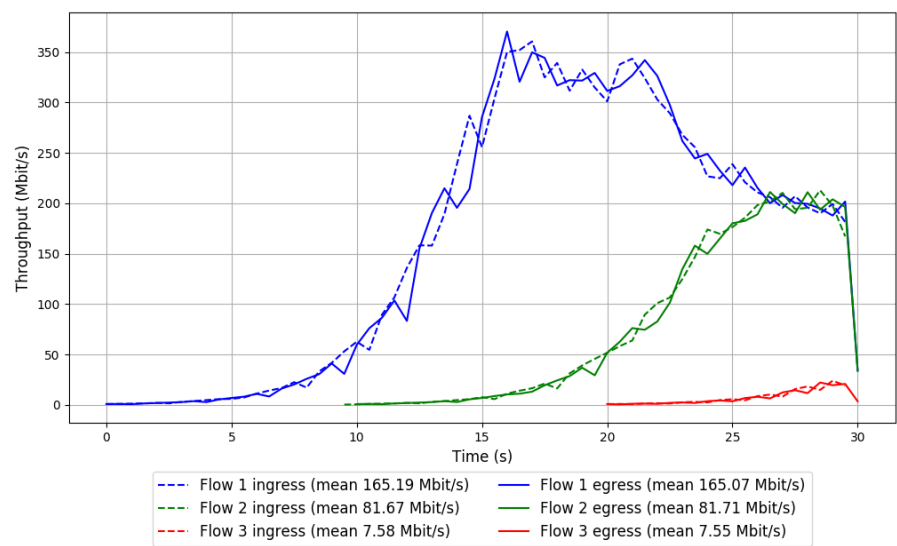
Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 144.127 ms

Loss rate: 0.32%



Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-09-01 05:40:08

End at: 2017-09-01 05:40:38

# Below is generated by plot.py at 2017-09-01 07:36:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 214.10 Mbit/s

95th percentile per-packet one-way delay: 171.104 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 169.12 Mbit/s

95th percentile per-packet one-way delay: 174.540 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 63.63 Mbit/s

95th percentile per-packet one-way delay: 158.350 ms

Loss rate: 0.00%

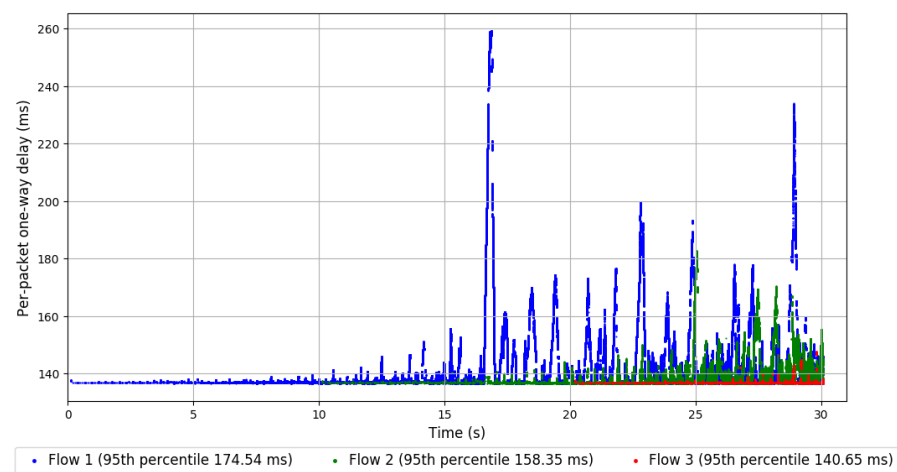
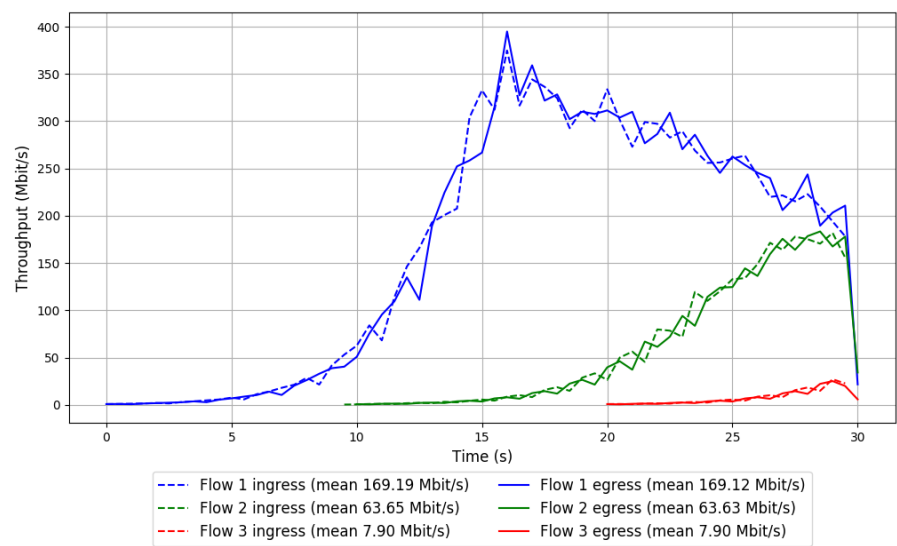
-- Flow 3:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 140.647 ms

Loss rate: 0.00%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-09-01 05:54:16

End at: 2017-09-01 05:54:46

# Below is generated by plot.py at 2017-09-01 07:37:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 227.32 Mbit/s

95th percentile per-packet one-way delay: 166.230 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.20 Mbit/s

95th percentile per-packet one-way delay: 170.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 153.215 ms

Loss rate: 0.00%

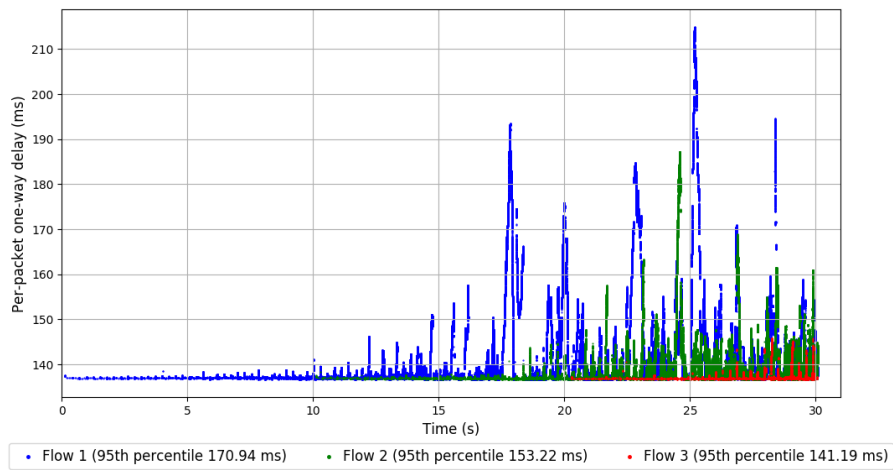
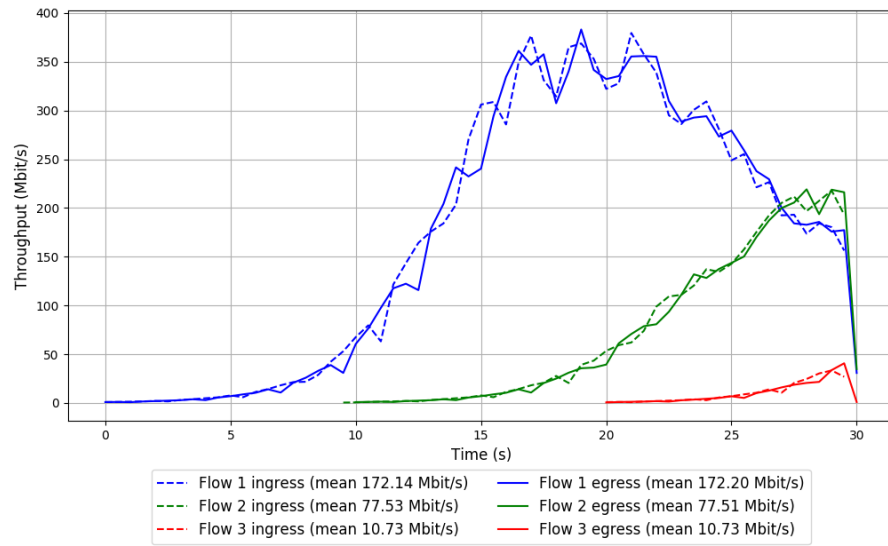
-- Flow 3:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 141.193 ms

Loss rate: 0.00%

## Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-09-01 06:08:19

End at: 2017-09-01 06:08:49

# Below is generated by plot.py at 2017-09-01 07:37:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 196.15 Mbit/s

95th percentile per-packet one-way delay: 172.022 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 142.11 Mbit/s

95th percentile per-packet one-way delay: 176.539 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 76.00 Mbit/s

95th percentile per-packet one-way delay: 165.966 ms

Loss rate: 0.10%

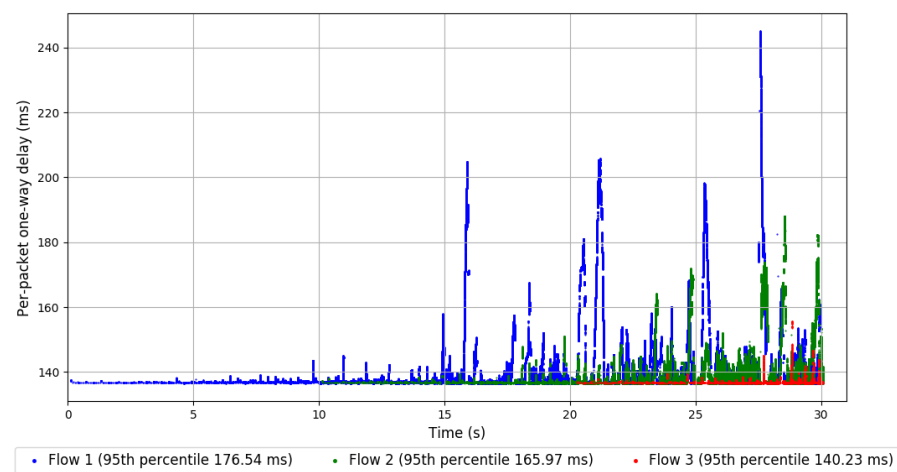
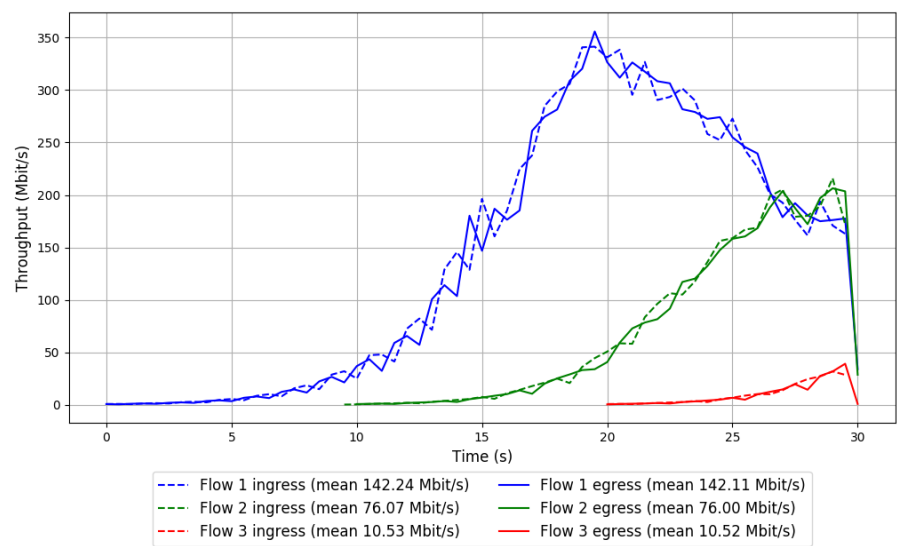
-- Flow 3:

Average throughput: 10.52 Mbit/s

95th percentile per-packet one-way delay: 140.234 ms

Loss rate: 0.12%

Run 10: Report of CalibratedKoho — Data Link



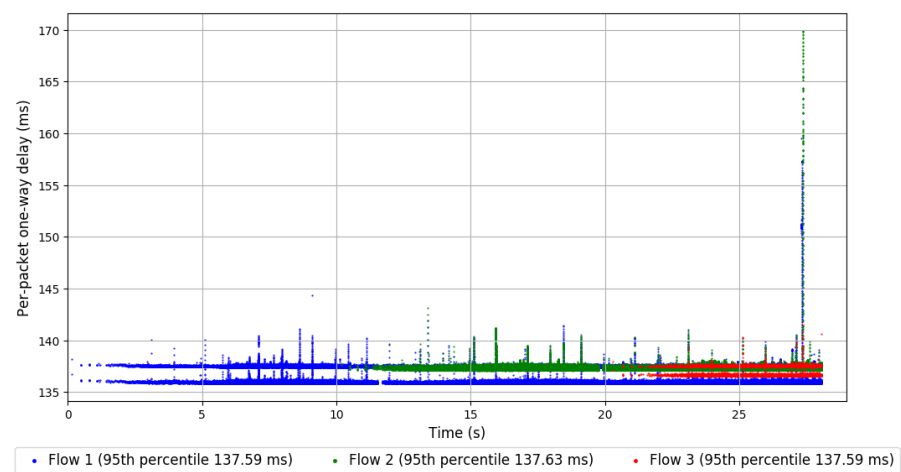
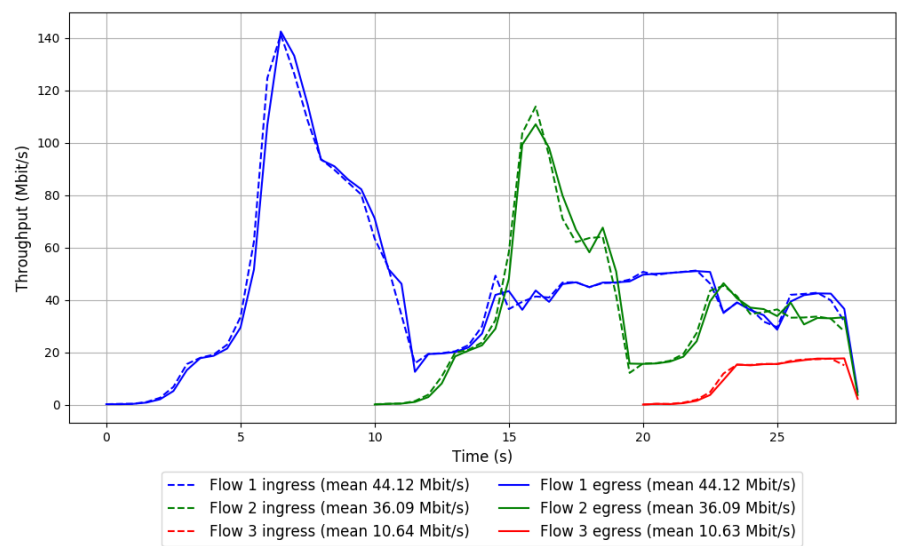
```
Run 1: Statistics of Copa

Start at: 2017-09-01 03:57:45
End at: 2017-09-01 03:58:15

# Below is generated by plot.py at 2017-09-01 07:38:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.16 Mbit/s
95th percentile per-packet one-way delay: 137.604 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 137.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.09 Mbit/s
95th percentile per-packet one-way delay: 137.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 137.591 ms
Loss rate: 0.00%
```



Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-09-01 04:11:56

End at: 2017-09-01 04:12:26

# Below is generated by plot.py at 2017-09-01 07:38:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 137.588 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.13 Mbit/s

95th percentile per-packet one-way delay: 137.586 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 137.592 ms

Loss rate: 0.00%

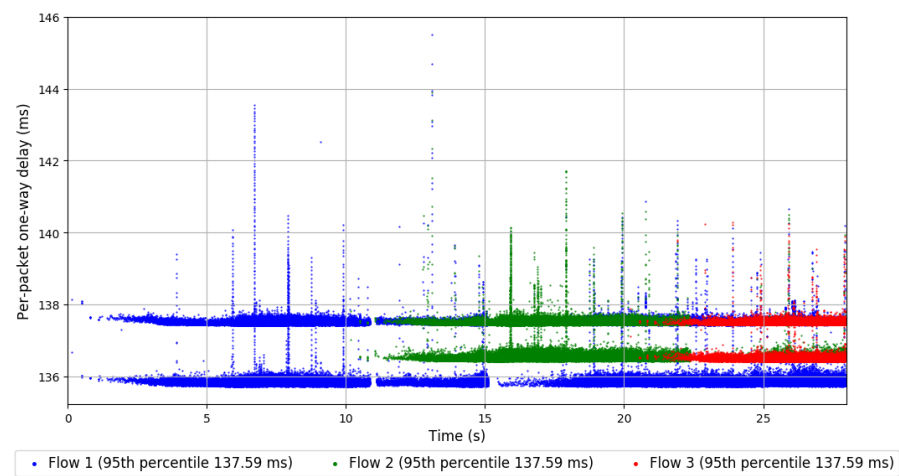
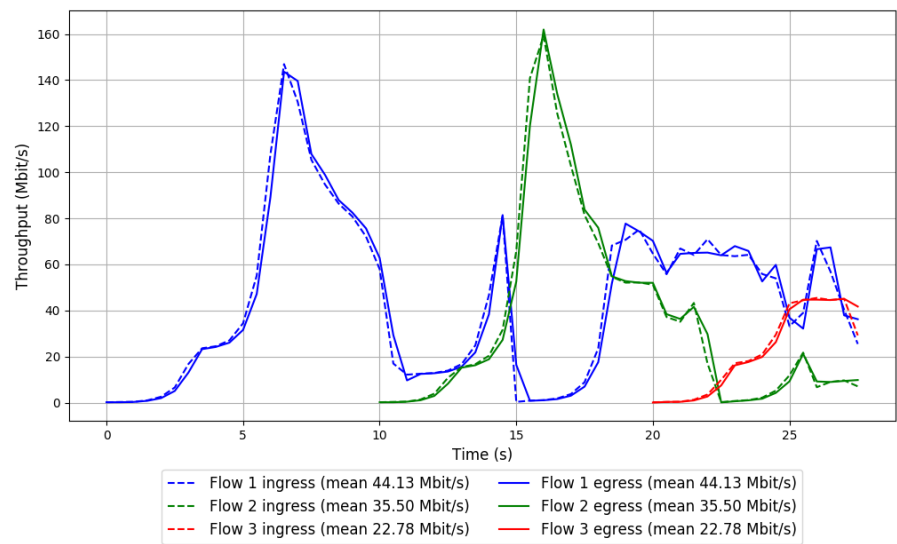
-- Flow 3:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 137.585 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-09-01 04:25:45

End at: 2017-09-01 04:26:15

# Below is generated by plot.py at 2017-09-01 07:38:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.82 Mbit/s

95th percentile per-packet one-way delay: 137.602 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.38 Mbit/s

95th percentile per-packet one-way delay: 137.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.20 Mbit/s

95th percentile per-packet one-way delay: 137.616 ms

Loss rate: 0.00%

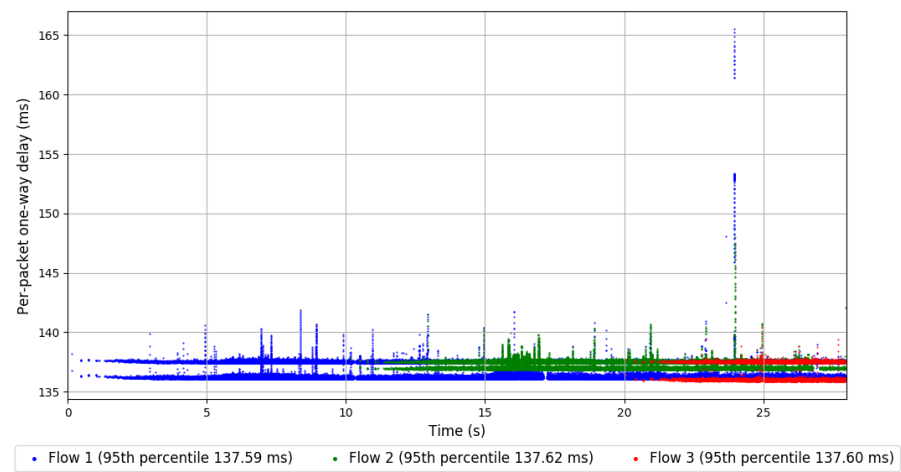
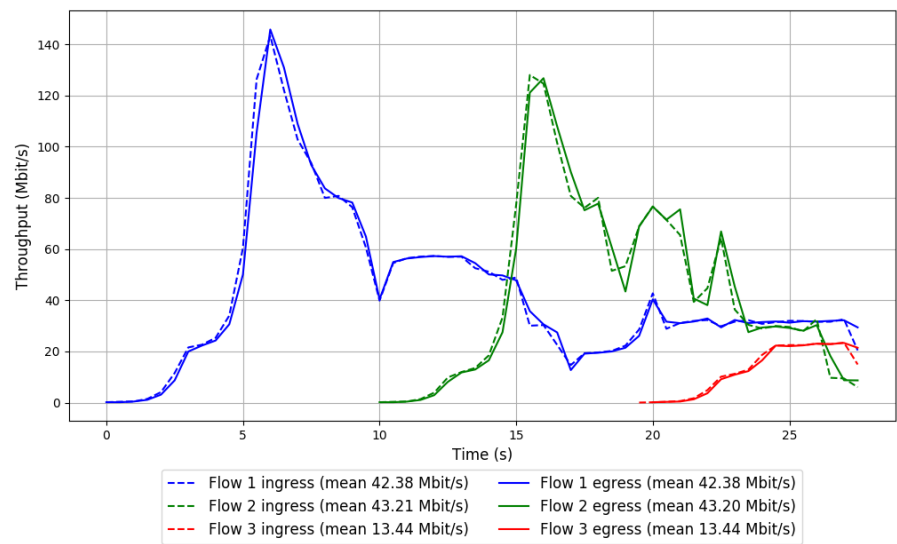
-- Flow 3:

Average throughput: 13.44 Mbit/s

95th percentile per-packet one-way delay: 137.597 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-09-01 04:39:45

End at: 2017-09-01 04:40:15

# Below is generated by plot.py at 2017-09-01 07:38:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.94 Mbit/s

95th percentile per-packet one-way delay: 136.861 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 136.866 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.60 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

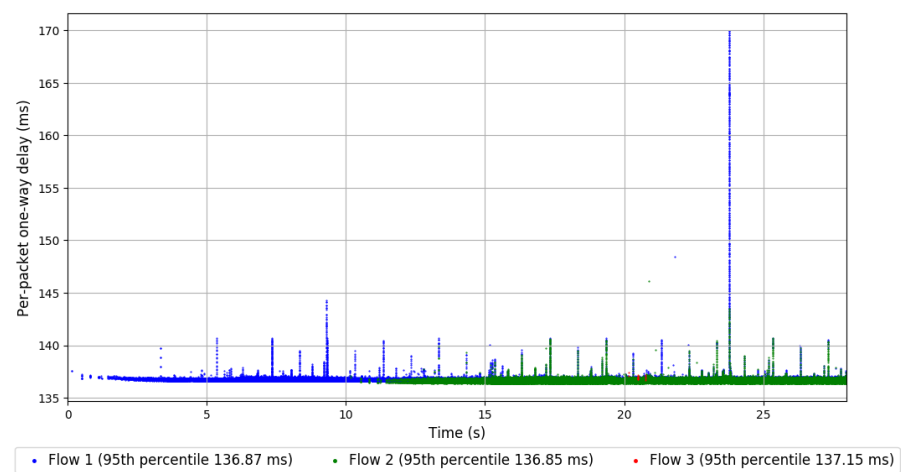
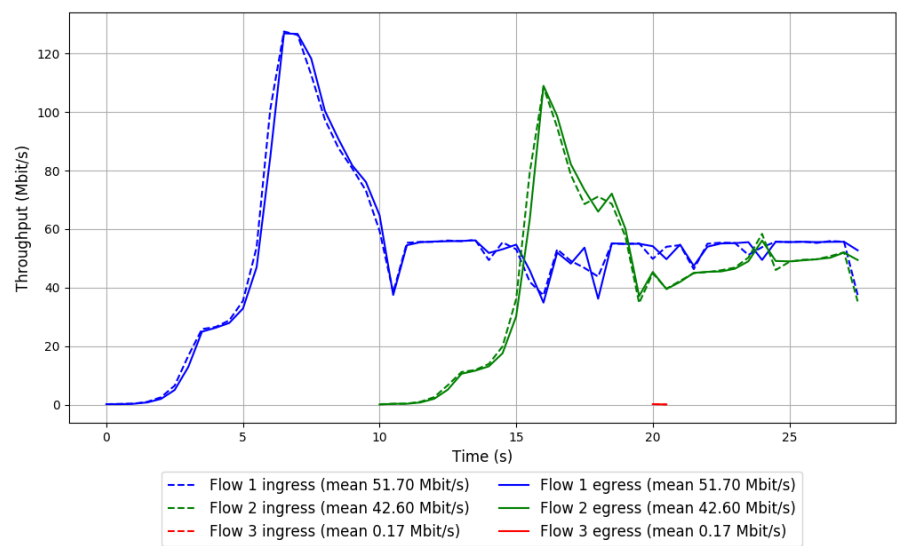
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 137.147 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-09-01 04:53:56

End at: 2017-09-01 04:54:26

# Below is generated by plot.py at 2017-09-01 07:38:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 137.627 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 137.659 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 137.230 ms

Loss rate: 0.00%

-- Flow 3:

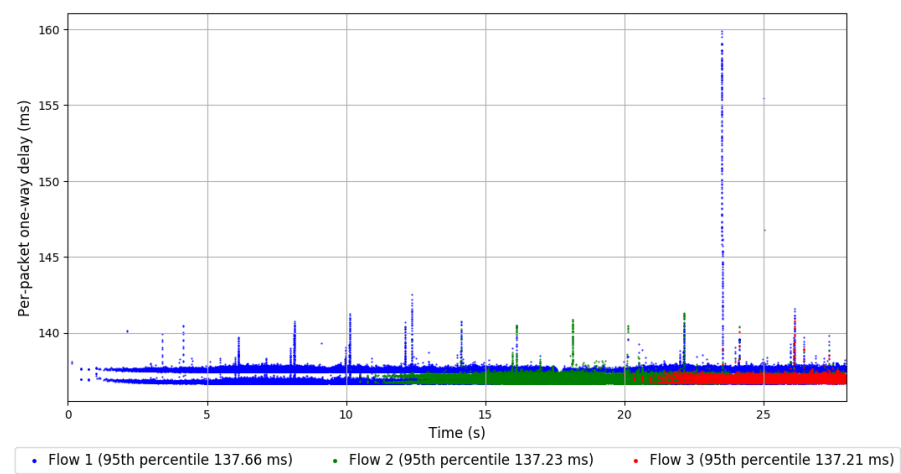
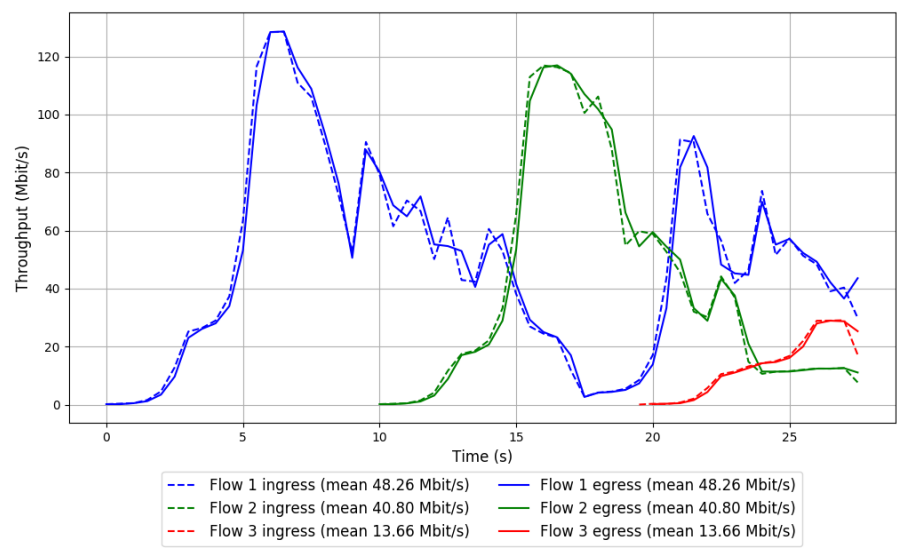
Average throughput: 13.66 Mbit/s

95th percentile per-packet one-way delay: 137.209 ms

Loss rate: 0.00%



Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-09-01 05:07:55

End at: 2017-09-01 05:08:25

# Below is generated by plot.py at 2017-09-01 07:38:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 137.622 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.47 Mbit/s

95th percentile per-packet one-way delay: 137.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.78 Mbit/s

95th percentile per-packet one-way delay: 137.619 ms

Loss rate: 0.00%

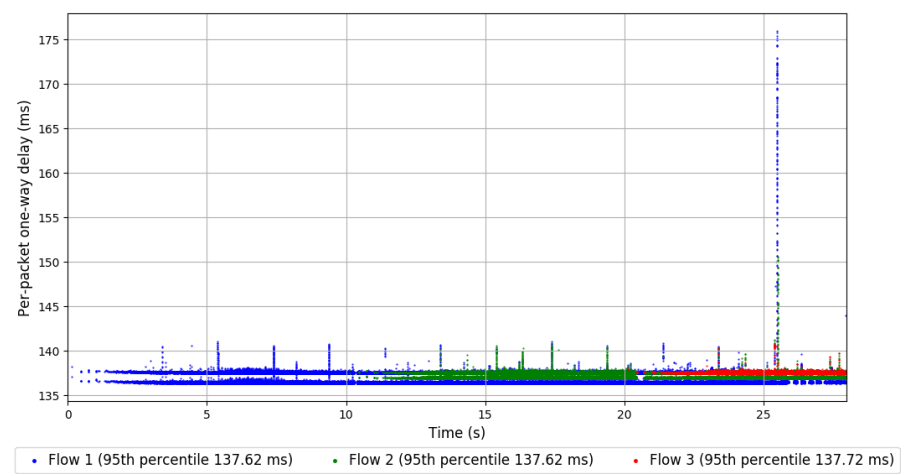
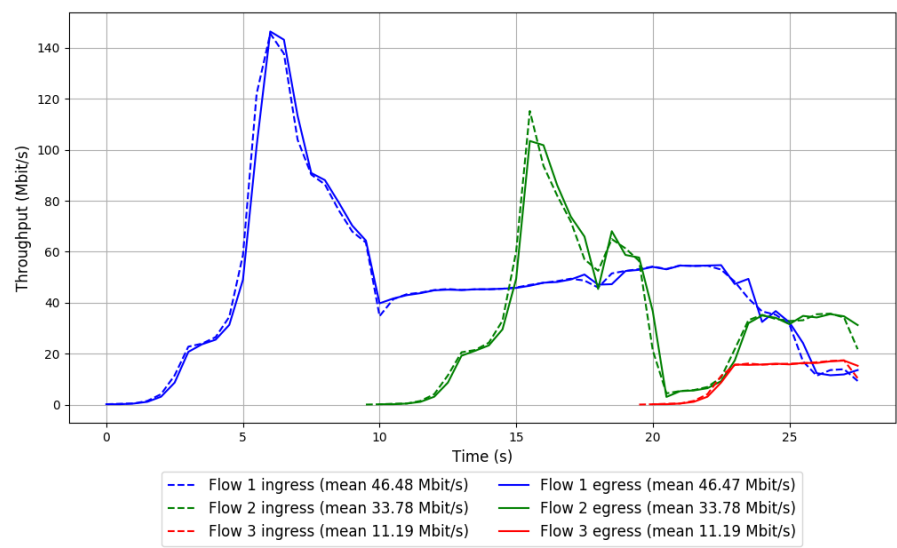
-- Flow 3:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 137.715 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-09-01 05:21:37

End at: 2017-09-01 05:22:07

# Below is generated by plot.py at 2017-09-01 07:39:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 137.675 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 137.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 137.713 ms

Loss rate: 0.00%

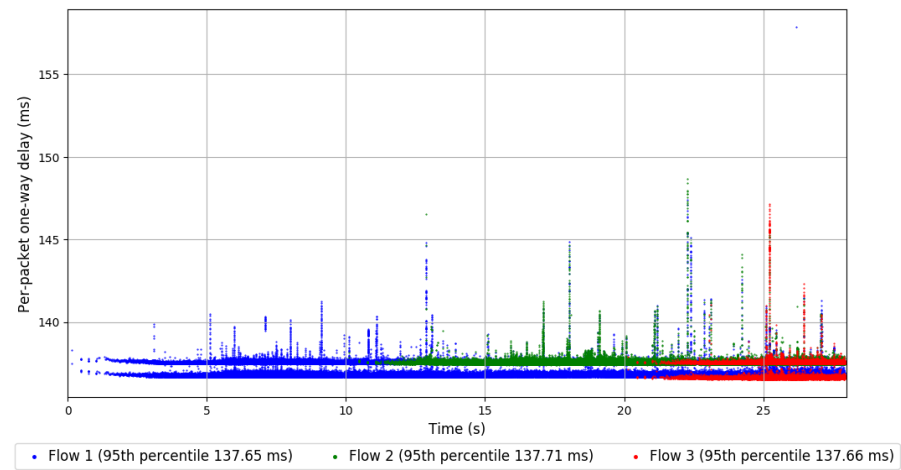
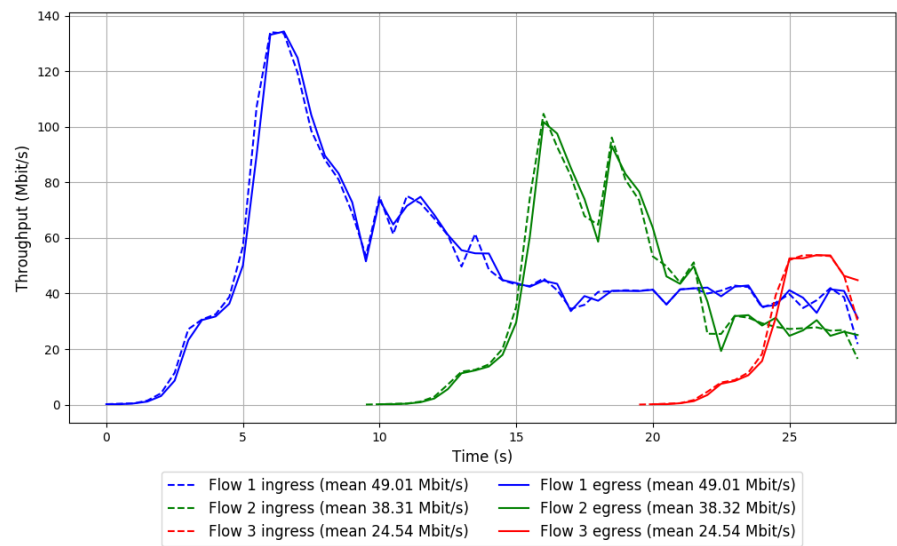
-- Flow 3:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 137.658 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-09-01 05:35:22

End at: 2017-09-01 05:35:52

# Below is generated by plot.py at 2017-09-01 07:39:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 137.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 137.665 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.65 Mbit/s

95th percentile per-packet one-way delay: 136.882 ms

Loss rate: 0.00%

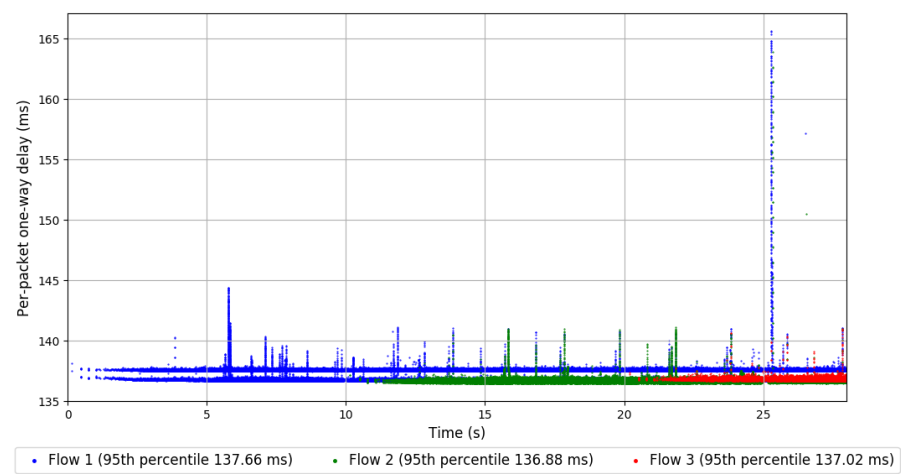
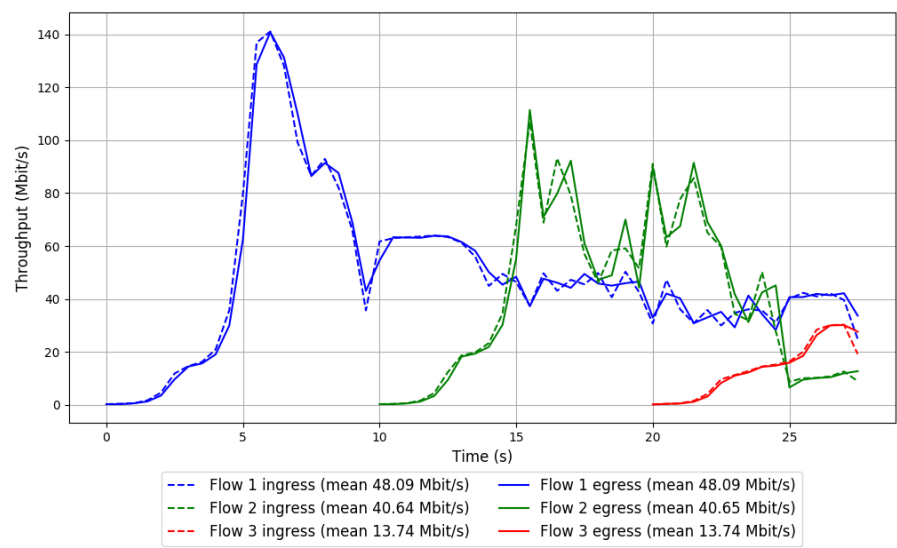
-- Flow 3:

Average throughput: 13.74 Mbit/s

95th percentile per-packet one-way delay: 137.020 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-09-01 05:49:31

End at: 2017-09-01 05:50:01

# Below is generated by plot.py at 2017-09-01 07:39:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 136.945 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 136.842 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.63 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 0.00%

-- Flow 3:

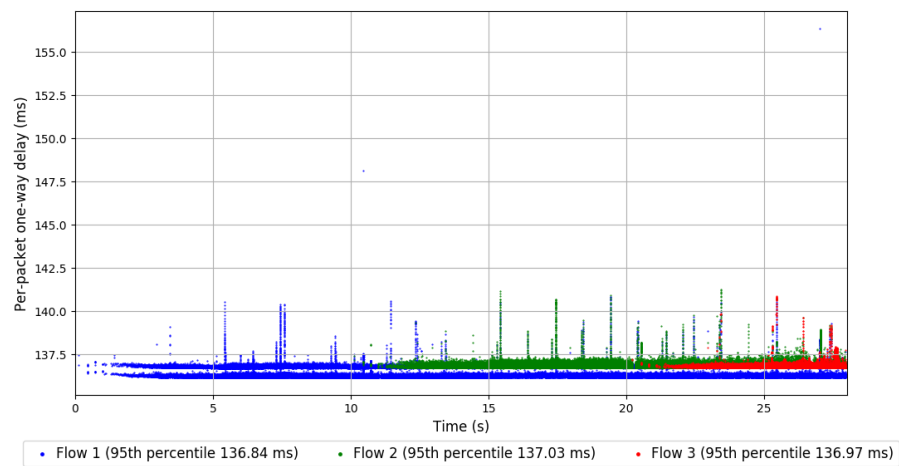
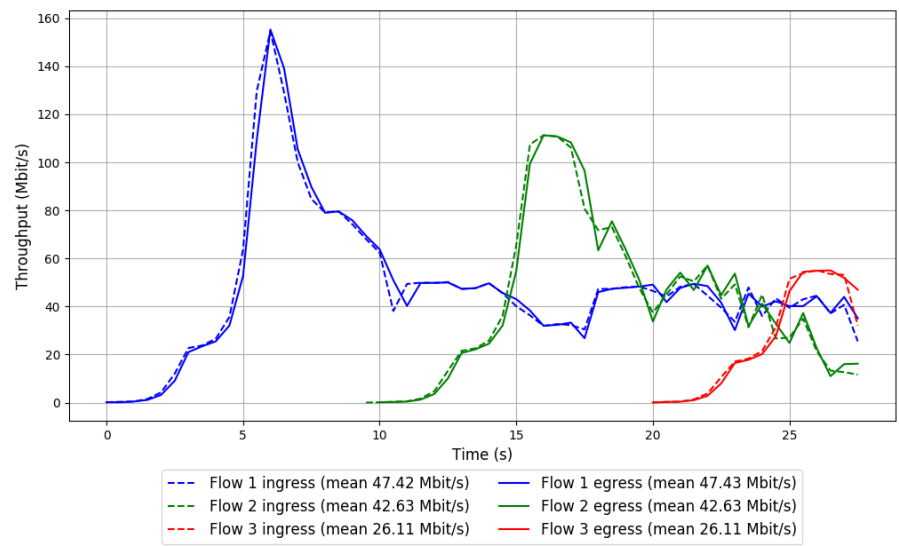
Average throughput: 26.11 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.00%



Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-09-01 06:03:39

End at: 2017-09-01 06:04:09

# Below is generated by plot.py at 2017-09-01 07:39:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.37 Mbit/s

95th percentile per-packet one-way delay: 137.137 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 46.69 Mbit/s

95th percentile per-packet one-way delay: 136.647 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 41.17 Mbit/s

95th percentile per-packet one-way delay: 137.156 ms

Loss rate: 0.09%

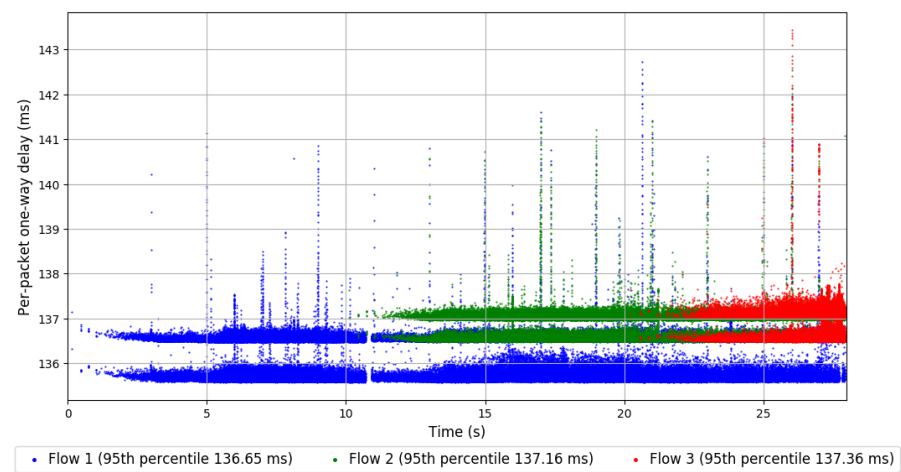
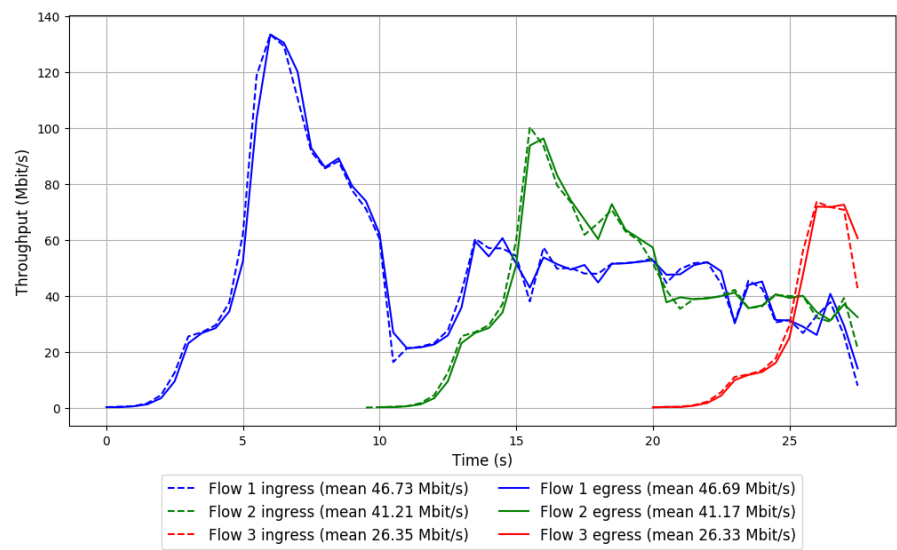
-- Flow 3:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.06%

Run 10: Report of Copa — Data Link

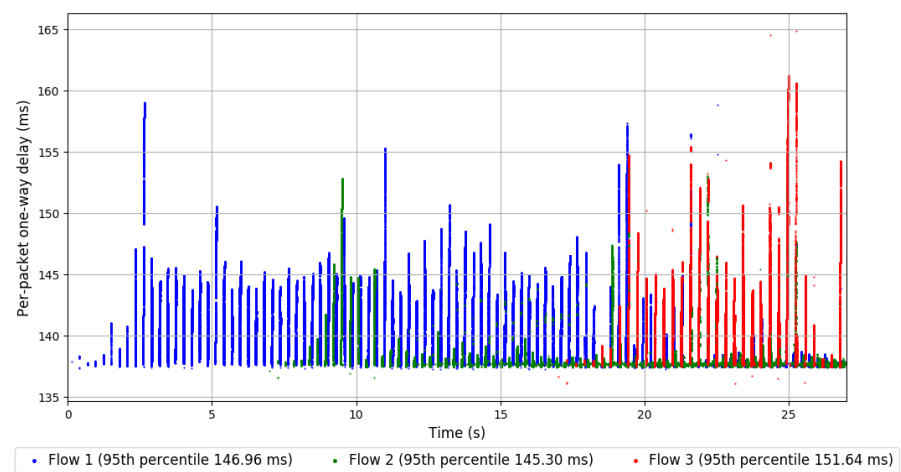
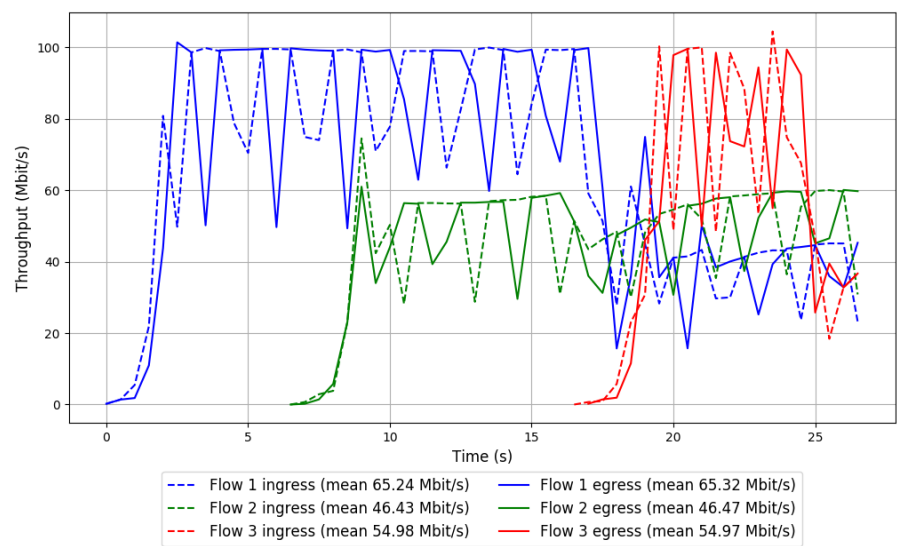


```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-01 03:51:09
End at: 2017-09-01 03:51:39

# Below is generated by plot.py at 2017-09-01 07:40:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.98 Mbit/s
95th percentile per-packet one-way delay: 147.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.32 Mbit/s
95th percentile per-packet one-way delay: 146.961 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 145.302 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 54.97 Mbit/s
95th percentile per-packet one-way delay: 151.643 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-01 04:05:30

End at: 2017-09-01 04:06:00

# Below is generated by plot.py at 2017-09-01 07:40:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.51 Mbit/s

95th percentile per-packet one-way delay: 146.437 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 140.790 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.06 Mbit/s

95th percentile per-packet one-way delay: 144.968 ms

Loss rate: 0.01%

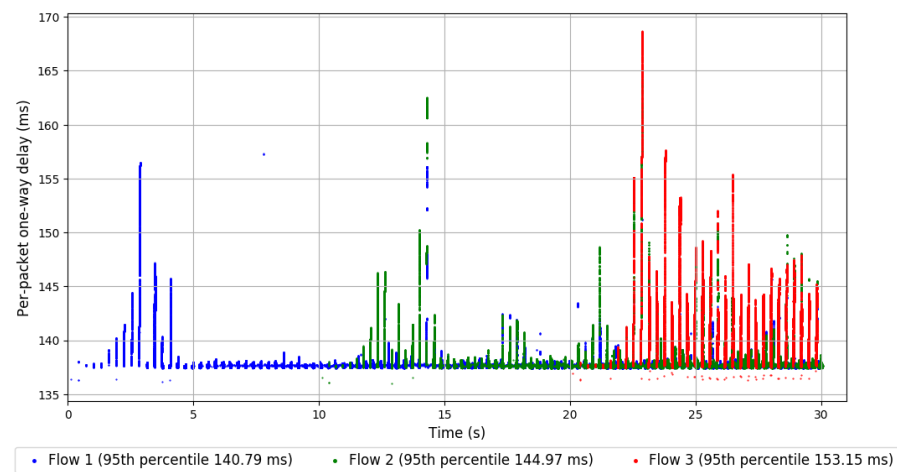
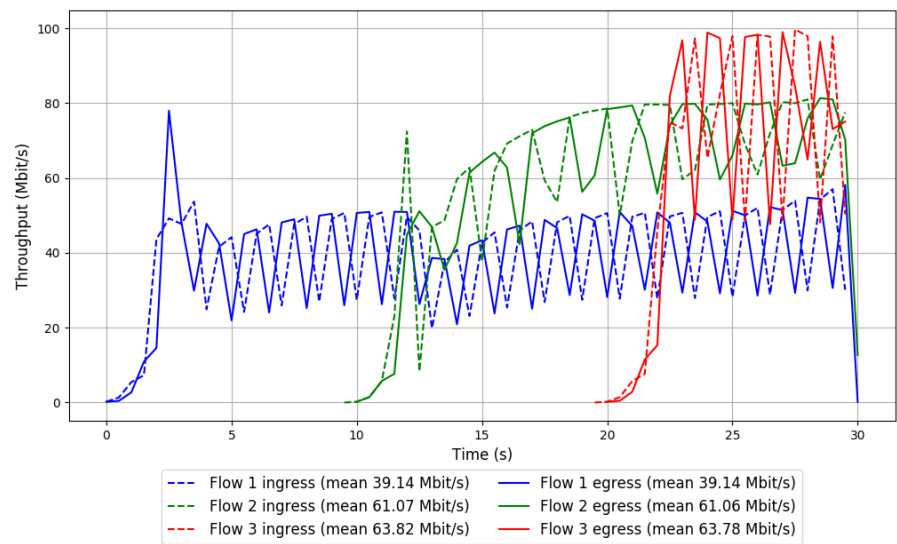
-- Flow 3:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 153.151 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-01 04:19:22

End at: 2017-09-01 04:19:52

# Below is generated by plot.py at 2017-09-01 07:40:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.41 Mbit/s

95th percentile per-packet one-way delay: 146.129 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 144.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 143.529 ms

Loss rate: 0.00%

-- Flow 3:

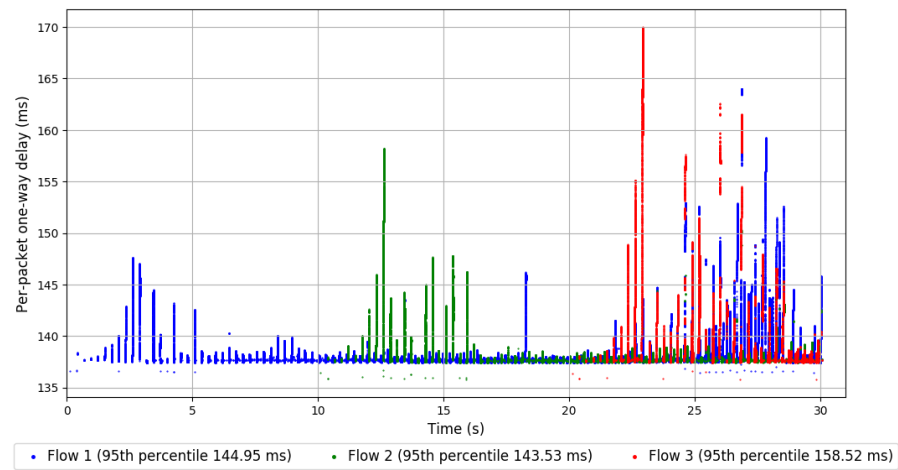
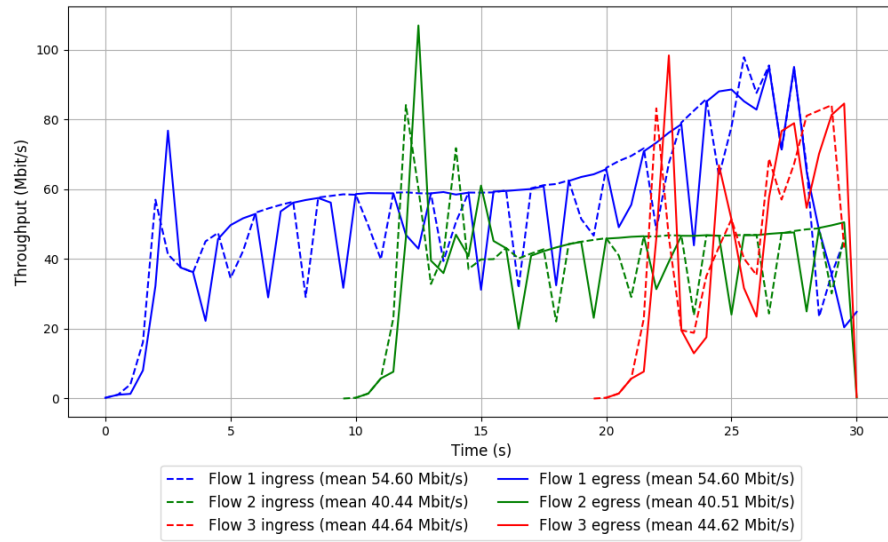
Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 158.519 ms

Loss rate: 0.03%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-01 04:33:22

End at: 2017-09-01 04:33:52

# Below is generated by plot.py at 2017-09-01 07:40:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.03 Mbit/s

95th percentile per-packet one-way delay: 145.813 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 144.342 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 145.996 ms

Loss rate: 0.01%

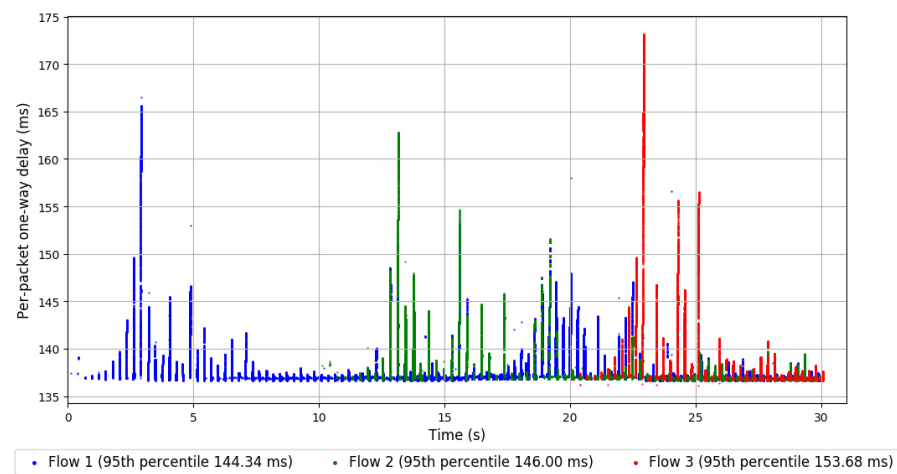
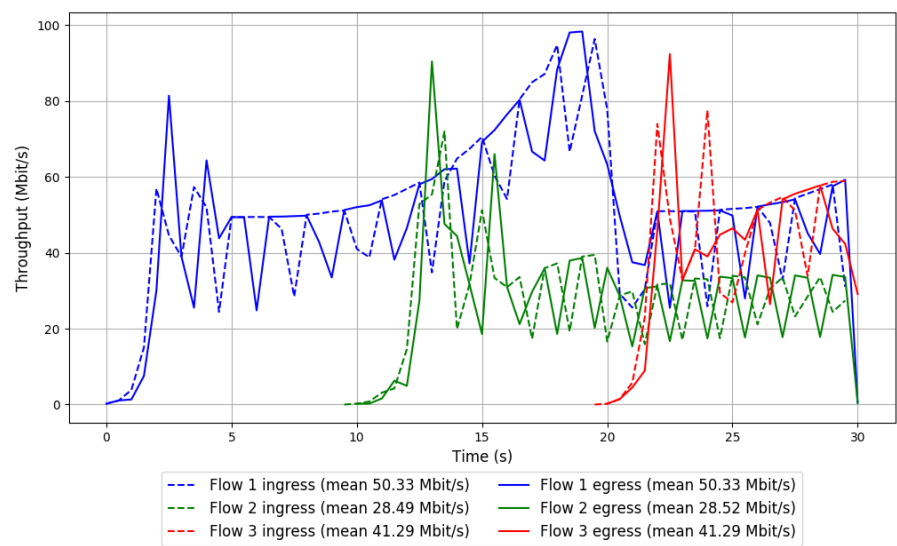
-- Flow 3:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 153.679 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-01 04:47:28

End at: 2017-09-01 04:47:58

# Below is generated by plot.py at 2017-09-01 07:41:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 129.79 Mbit/s

95th percentile per-packet one-way delay: 144.216 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.57 Mbit/s

95th percentile per-packet one-way delay: 144.338 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 143.939 ms

Loss rate: 0.00%

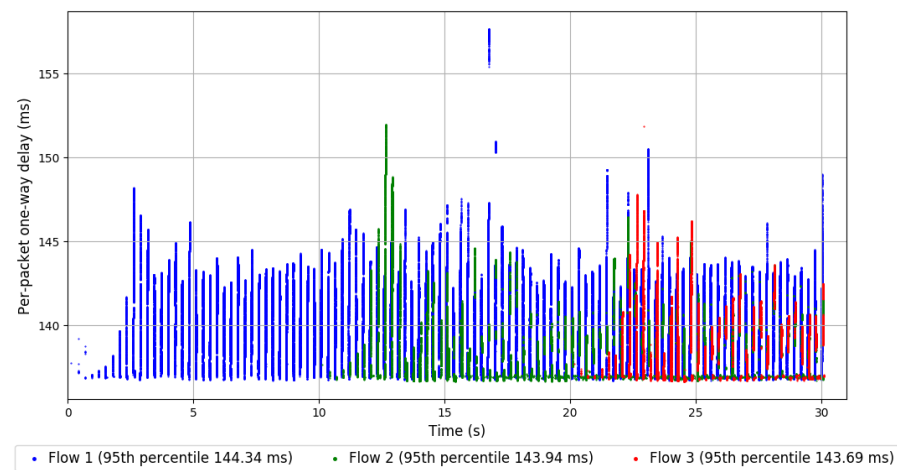
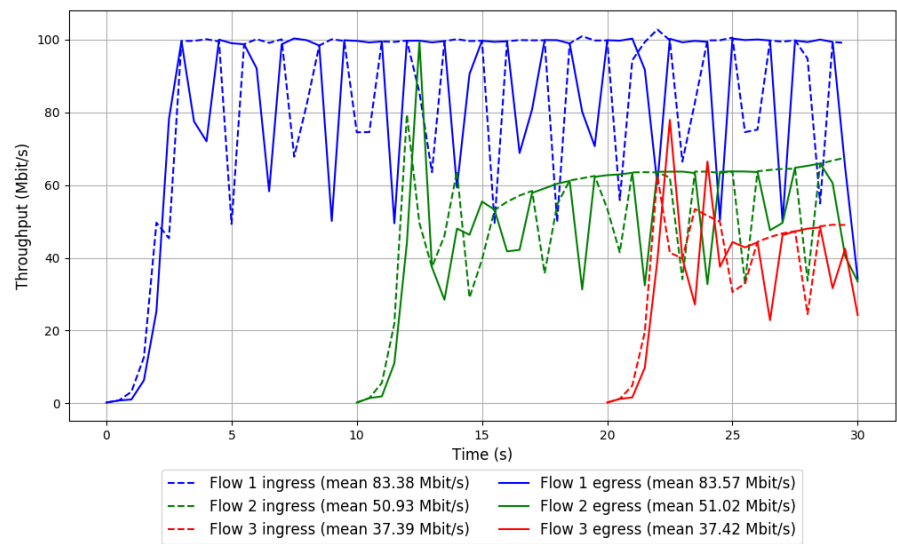
-- Flow 3:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 143.687 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-01 05:01:31

End at: 2017-09-01 05:02:01

# Below is generated by plot.py at 2017-09-01 07:41:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 144.336 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 145.140 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.61 Mbit/s

95th percentile per-packet one-way delay: 143.361 ms

Loss rate: 0.00%

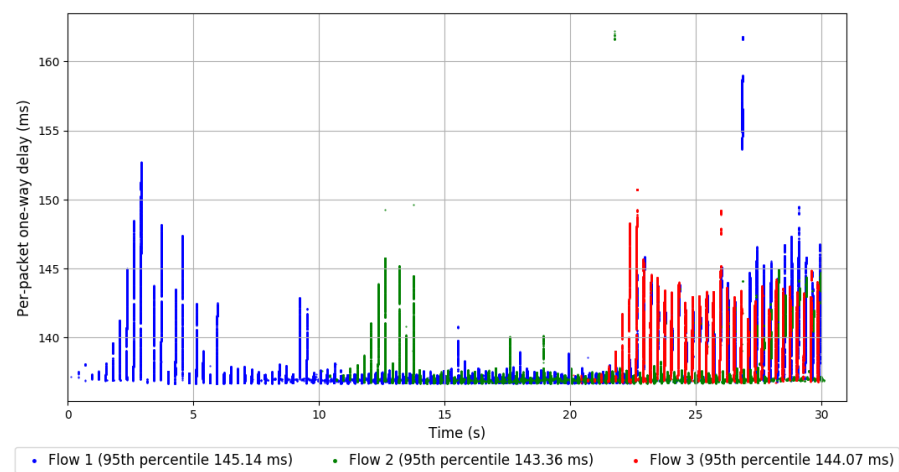
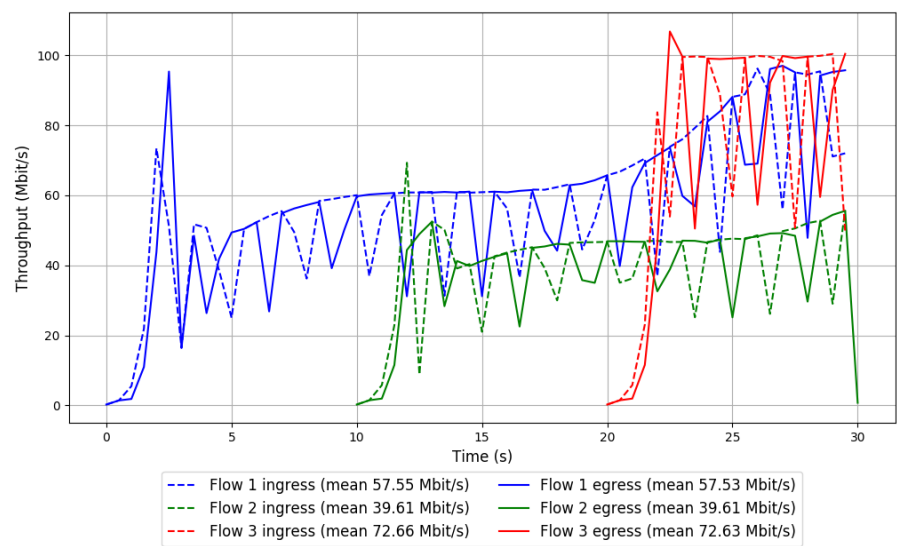
-- Flow 3:

Average throughput: 72.63 Mbit/s

95th percentile per-packet one-way delay: 144.066 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-01 05:15:15

End at: 2017-09-01 05:15:45

# Below is generated by plot.py at 2017-09-01 07:41:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 145.090 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 145.054 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 35.13 Mbit/s

95th percentile per-packet one-way delay: 142.074 ms

Loss rate: 0.02%

-- Flow 3:

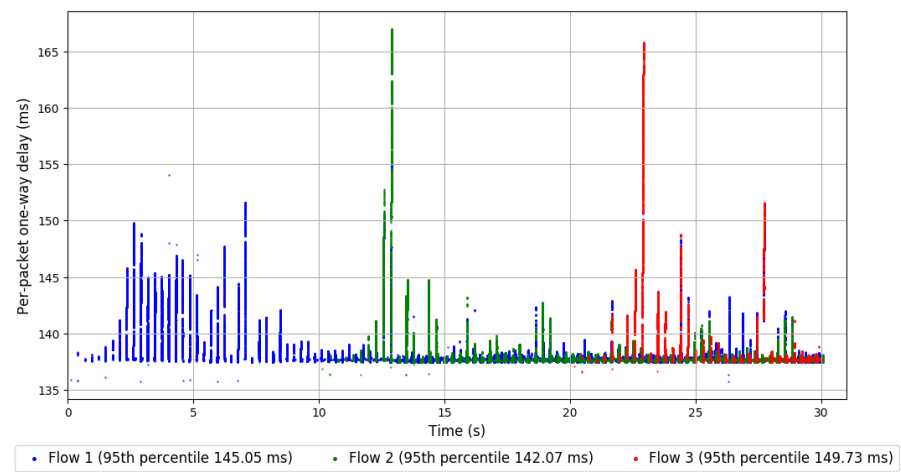
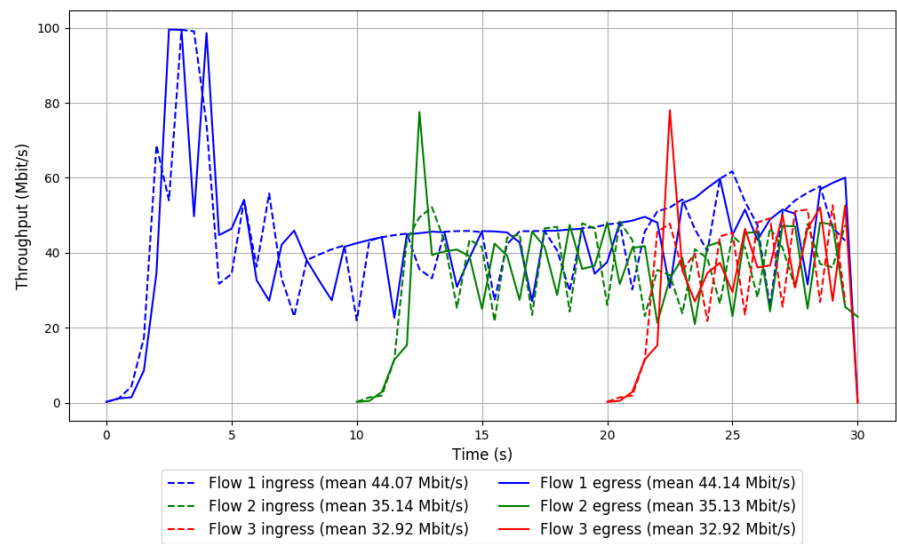
Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 149.731 ms

Loss rate: 0.00%



Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-01 05:29:00

End at: 2017-09-01 05:29:30

# Below is generated by plot.py at 2017-09-01 07:41:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 111.16 Mbit/s

95th percentile per-packet one-way delay: 147.065 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.59 Mbit/s

95th percentile per-packet one-way delay: 146.165 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 147.595 ms

Loss rate: 0.00%

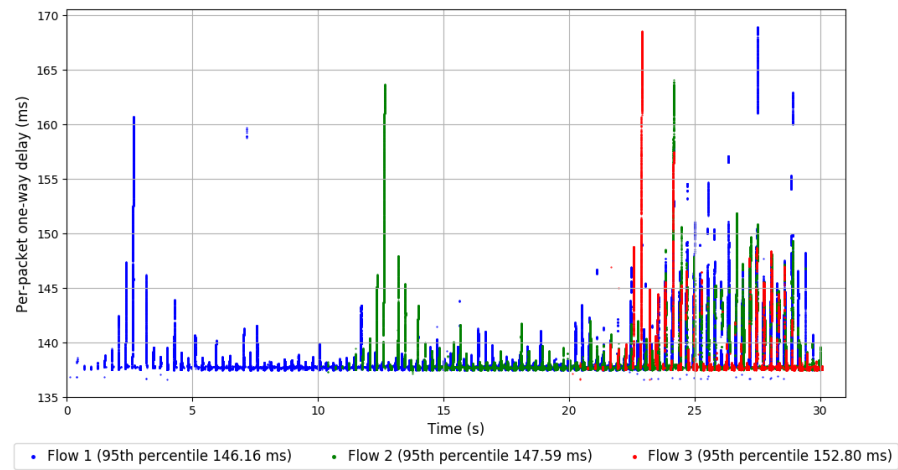
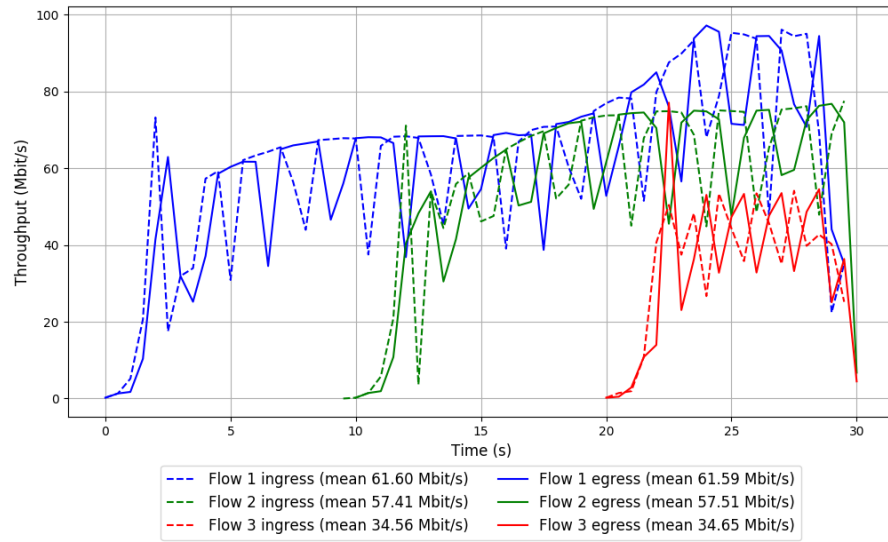
-- Flow 3:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 152.801 ms

Loss rate: 0.01%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-01 05:43:06

End at: 2017-09-01 05:43:36

# Below is generated by plot.py at 2017-09-01 07:41:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 144.311 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 29.38 Mbit/s

95th percentile per-packet one-way delay: 140.616 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 71.97 Mbit/s

95th percentile per-packet one-way delay: 144.893 ms

Loss rate: 0.04%

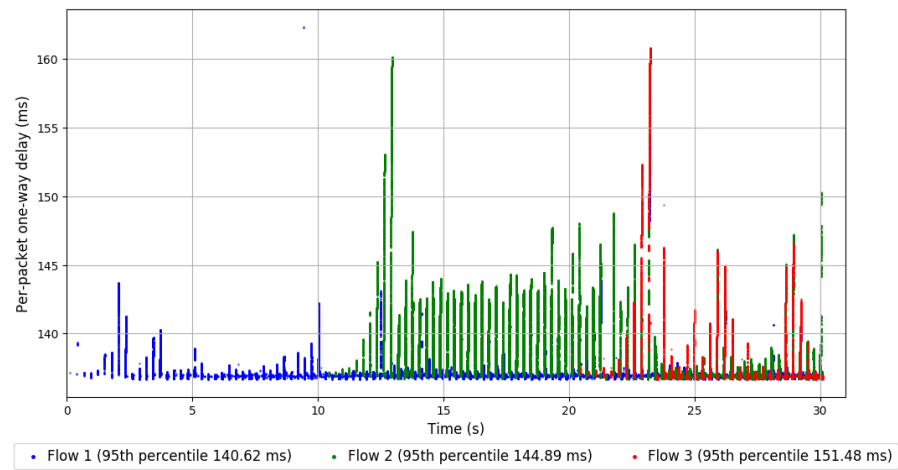
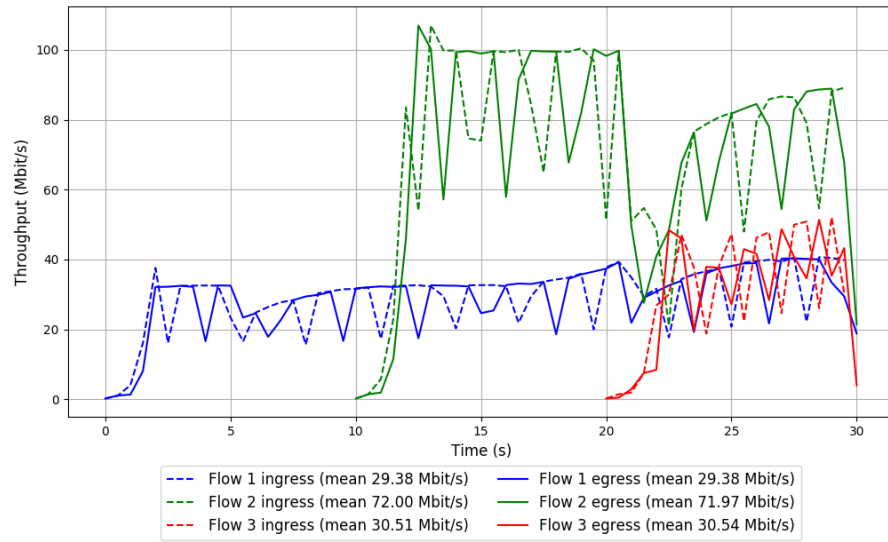
-- Flow 3:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 151.484 ms

Loss rate: 0.00%

# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-01 05:57:15

End at: 2017-09-01 05:57:45

# Below is generated by plot.py at 2017-09-01 07:41:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 108.28 Mbit/s

95th percentile per-packet one-way delay: 149.995 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 149.953 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 150.832 ms

Loss rate: 0.00%

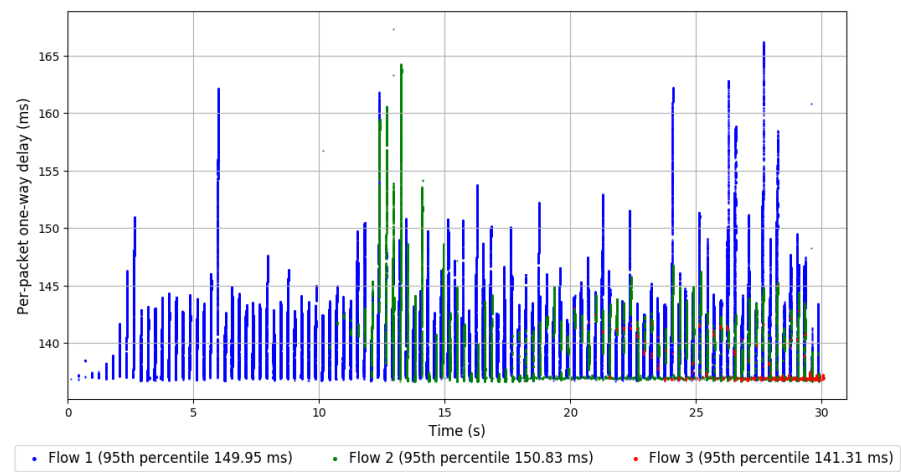
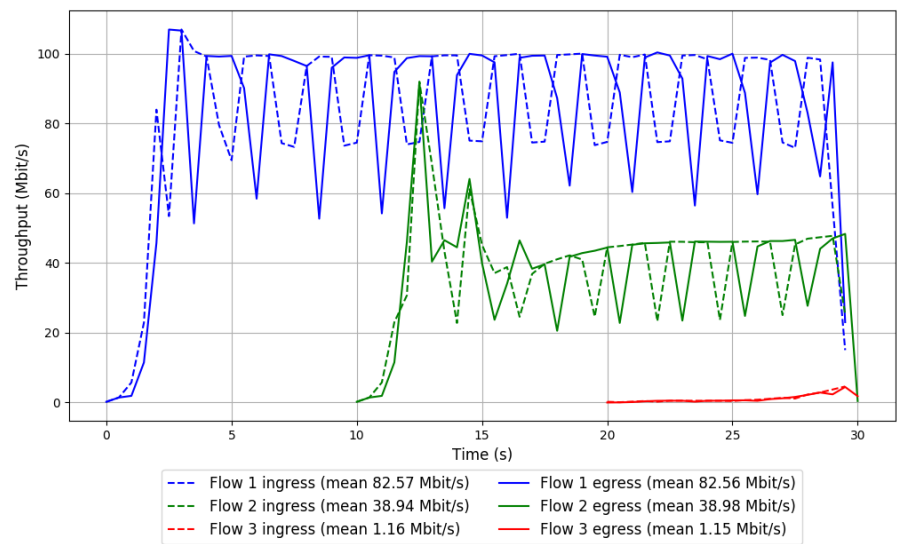
-- Flow 3:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 141.314 ms

Loss rate: 0.94%

Run 10: Report of TCP Cubic — Data Link



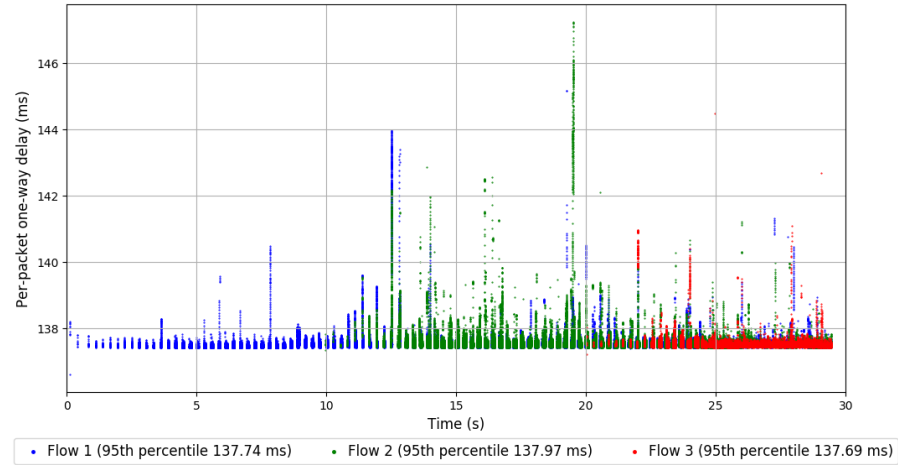
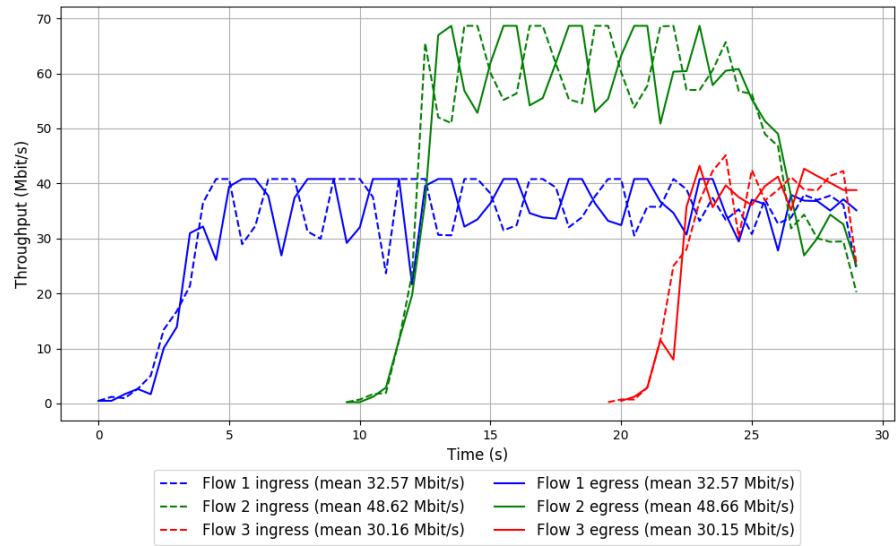
```
Run 1: Statistics of Indigo

Start at: 2017-09-01 04:03:42
End at: 2017-09-01 04:04:12

# Below is generated by plot.py at 2017-09-01 07:41:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 137.849 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 137.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.66 Mbit/s
95th percentile per-packet one-way delay: 137.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 137.687 ms
Loss rate: 0.00%
```



## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-01 04:17:33

End at: 2017-09-01 04:18:03

# Below is generated by plot.py at 2017-09-01 07:42:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 137.826 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 137.745 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 137.921 ms

Loss rate: 0.00%

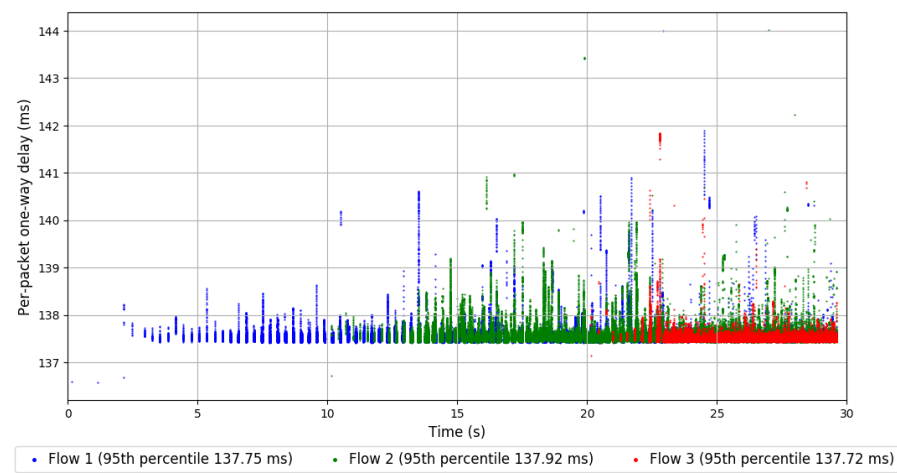
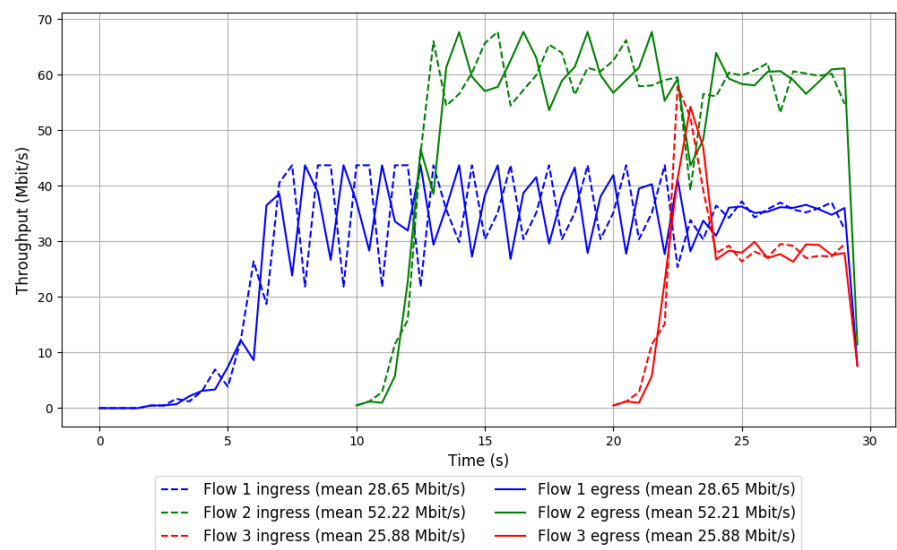
-- Flow 3:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 137.717 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-01 04:31:34

End at: 2017-09-01 04:32:04

# Below is generated by plot.py at 2017-09-01 07:42:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 137.382 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 137.159 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: 137.524 ms

Loss rate: 0.00%

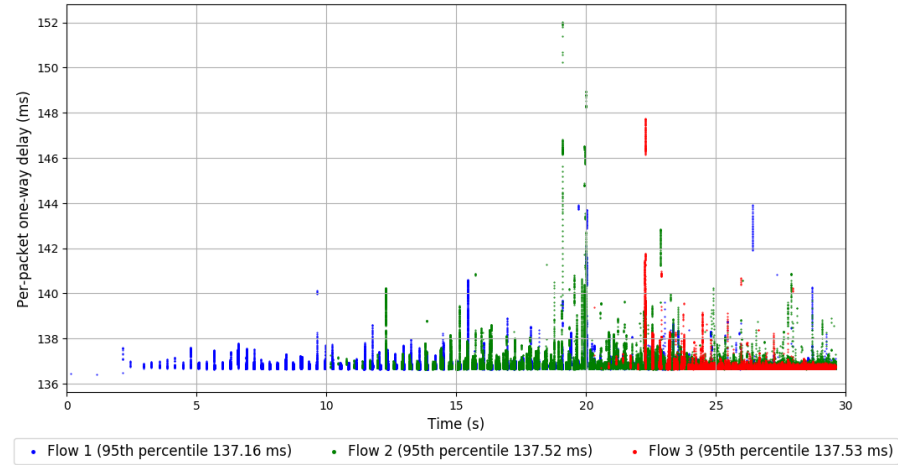
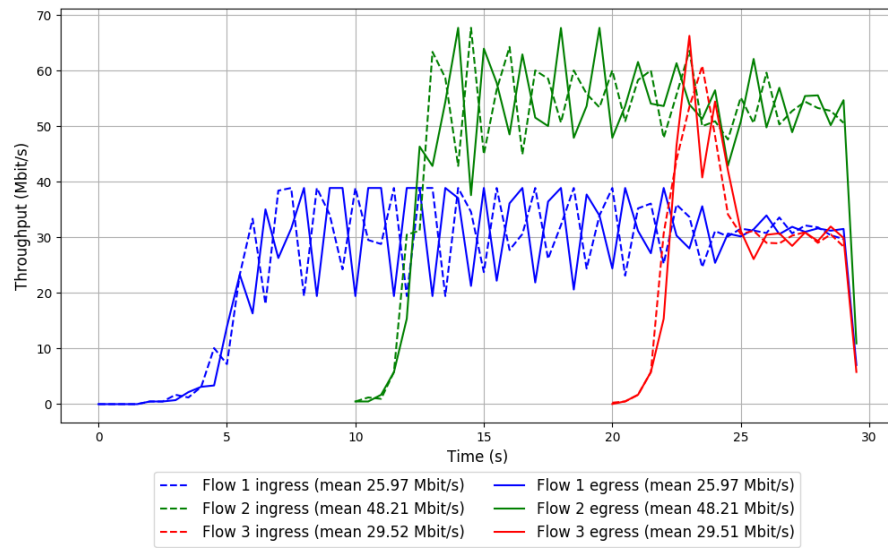
-- Flow 3:

Average throughput: 29.51 Mbit/s

95th percentile per-packet one-way delay: 137.525 ms

Loss rate: 0.04%

### Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-01 04:45:39

End at: 2017-09-01 04:46:09

# Below is generated by plot.py at 2017-09-01 07:42:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 137.003 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 136.962 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.31 Mbit/s

95th percentile per-packet one-way delay: 137.072 ms

Loss rate: 0.00%

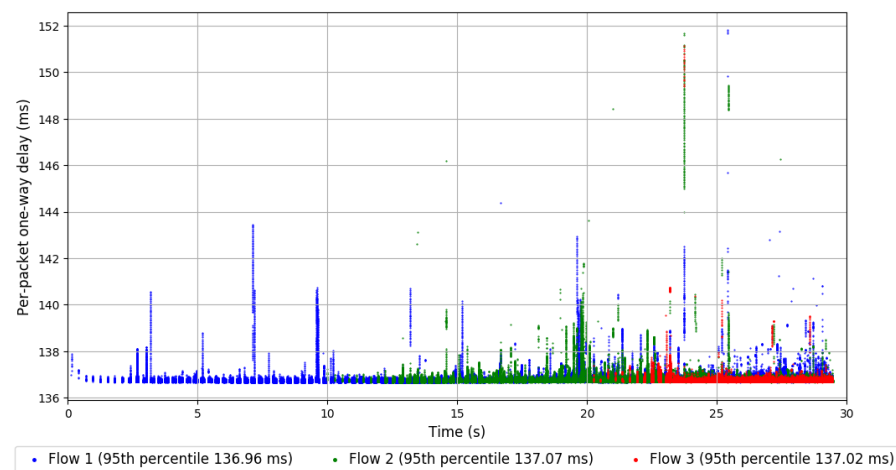
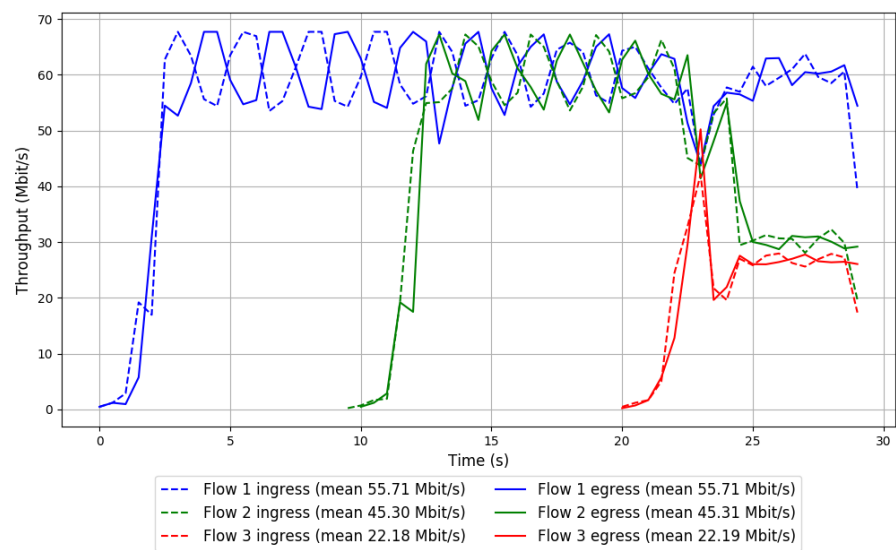
-- Flow 3:

Average throughput: 22.19 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-01 04:59:43

End at: 2017-09-01 05:00:13

# Below is generated by plot.py at 2017-09-01 07:42:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.06 Mbit/s

95th percentile per-packet one-way delay: 137.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.07 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.18 Mbit/s

95th percentile per-packet one-way delay: 137.228 ms

Loss rate: 0.00%

-- Flow 3:

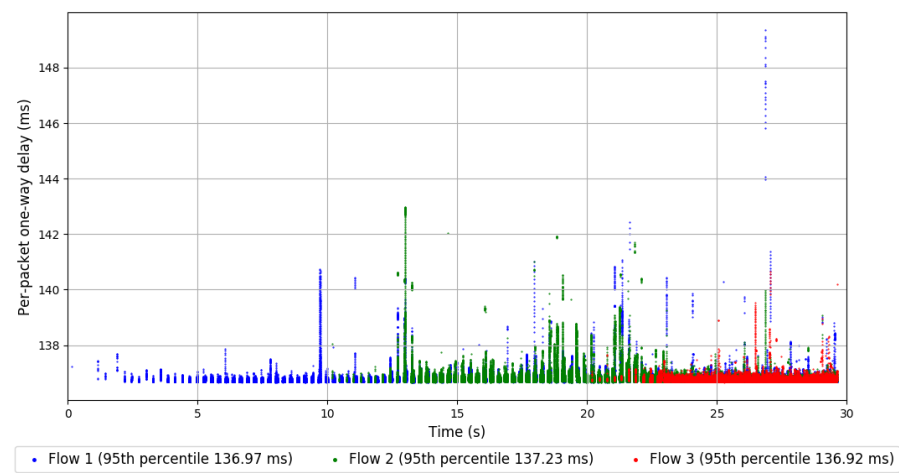
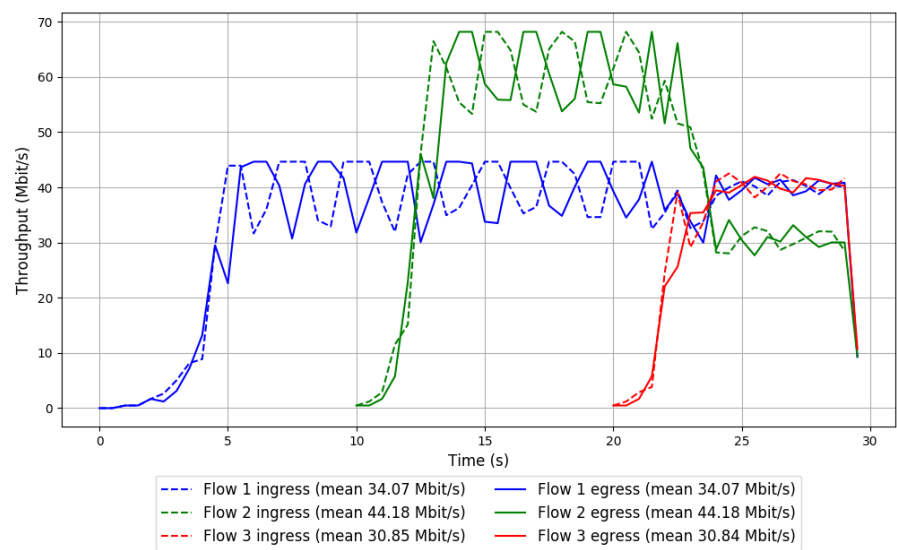
Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 136.923 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-01 05:13:28

End at: 2017-09-01 05:13:58

# Below is generated by plot.py at 2017-09-01 07:42:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.31 Mbit/s

95th percentile per-packet one-way delay: 137.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 137.868 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.10 Mbit/s

95th percentile per-packet one-way delay: 138.104 ms

Loss rate: 0.00%

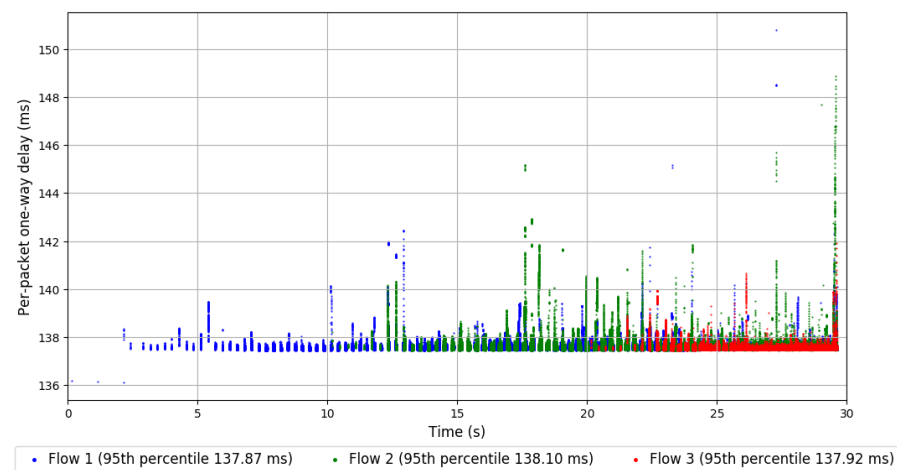
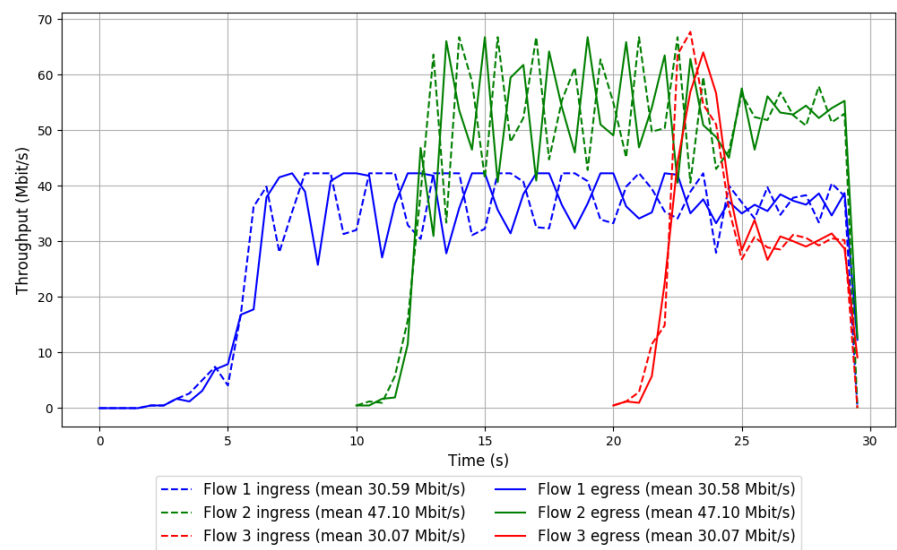
-- Flow 3:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 137.920 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-01 05:27:12

End at: 2017-09-01 05:27:42

# Below is generated by plot.py at 2017-09-01 07:42:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.71 Mbit/s

95th percentile per-packet one-way delay: 138.226 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 138.005 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.57 Mbit/s

95th percentile per-packet one-way delay: 138.381 ms

Loss rate: 0.00%

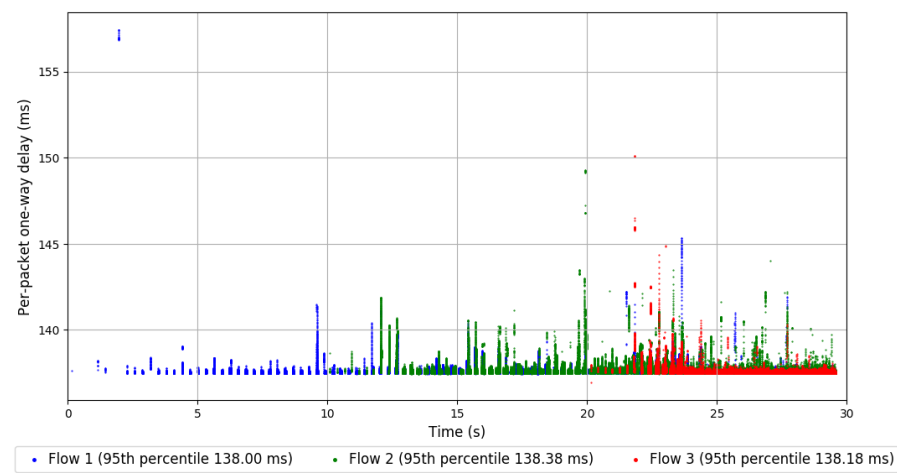
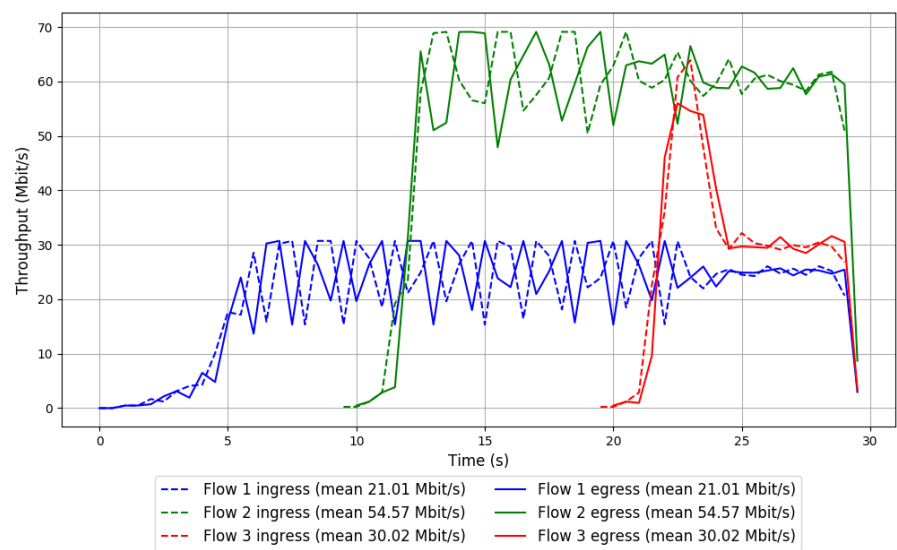
-- Flow 3:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 138.177 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-01 05:41:16

End at: 2017-09-01 05:41:46

# Below is generated by plot.py at 2017-09-01 07:42:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 137.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.00%

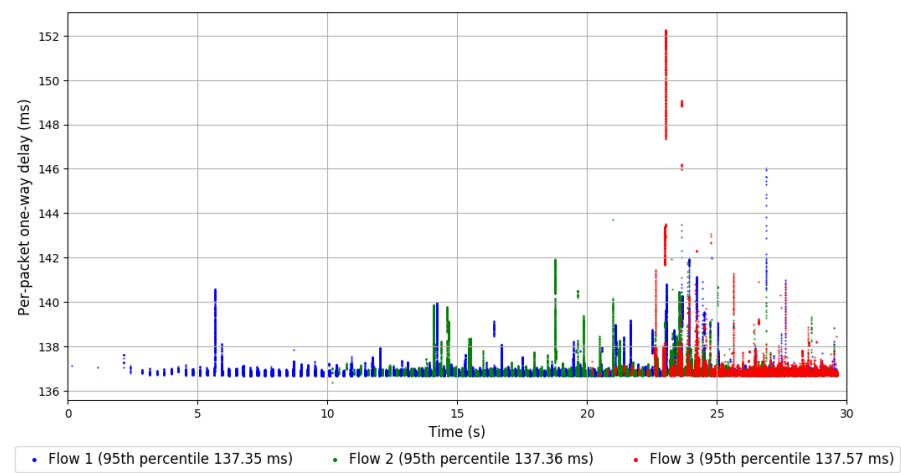
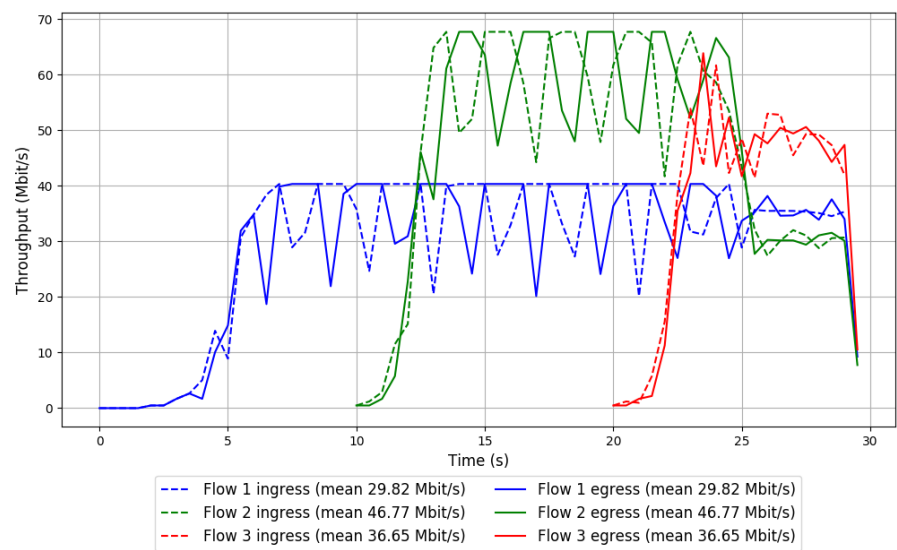
-- Flow 3:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 137.571 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-01 05:55:26

End at: 2017-09-01 05:55:56

# Below is generated by plot.py at 2017-09-01 07:42:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.60 Mbit/s

95th percentile per-packet one-way delay: 137.210 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 137.218 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 51.36 Mbit/s

95th percentile per-packet one-way delay: 137.275 ms

Loss rate: 0.00%

-- Flow 3:

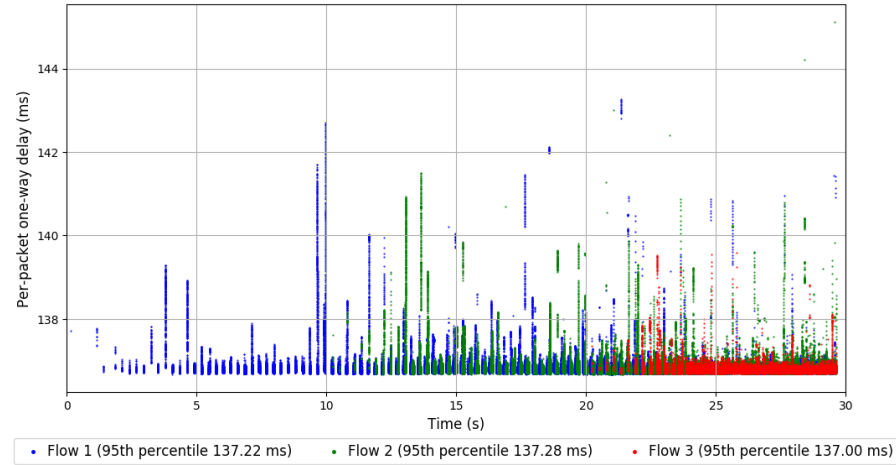
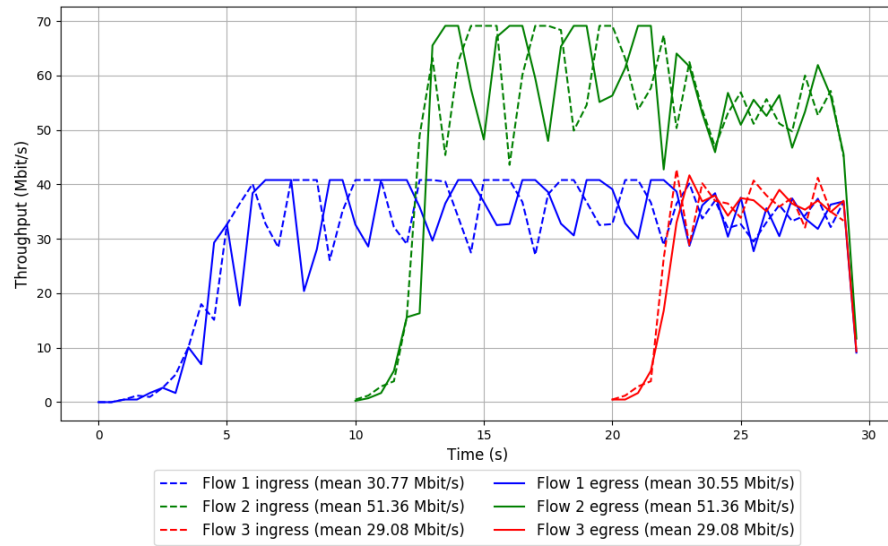
Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 136.996 ms

Loss rate: 0.00%



## Run 9: Report of Indigo — Data Link

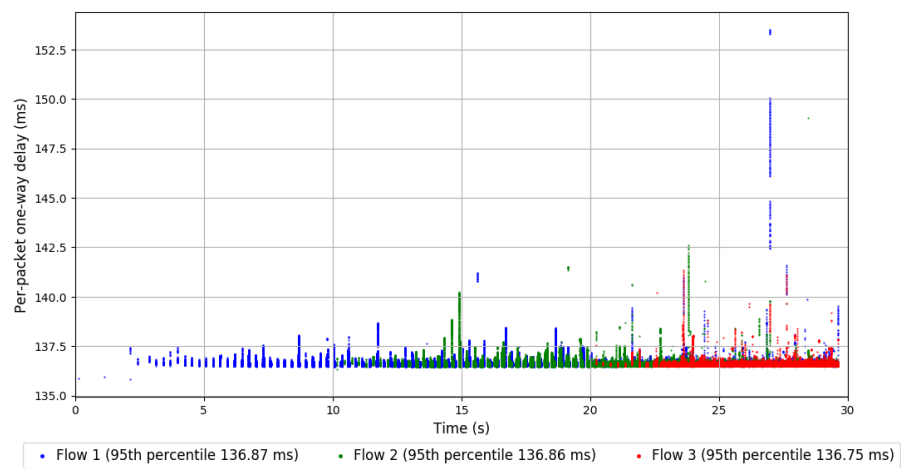
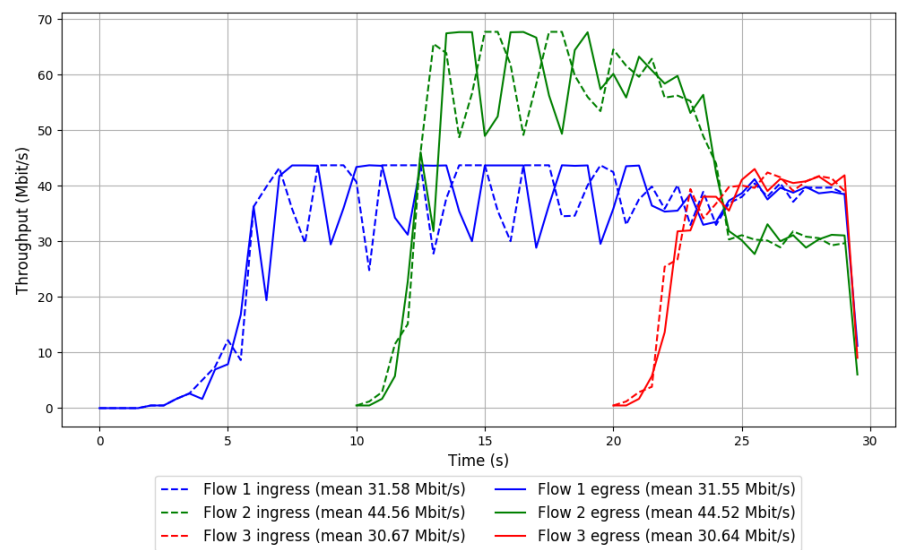


```
Run 10: Statistics of Indigo

Start at: 2017-09-01 06:09:26
End at: 2017-09-01 06:09:56

# Below is generated by plot.py at 2017-09-01 07:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.66 Mbit/s
95th percentile per-packet one-way delay: 136.848 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 136.868 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 136.863 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 30.64 Mbit/s
95th percentile per-packet one-way delay: 136.752 ms
Loss rate: 0.08%
```

Run 10: Report of Indigo — Data Link

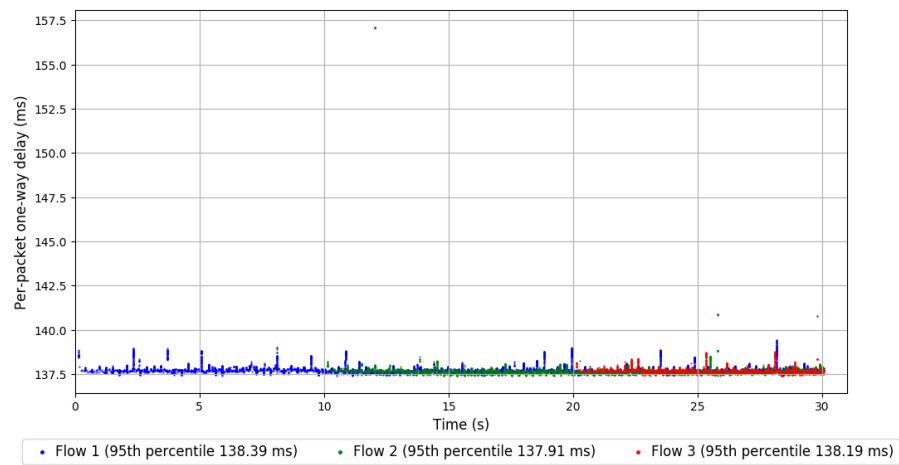
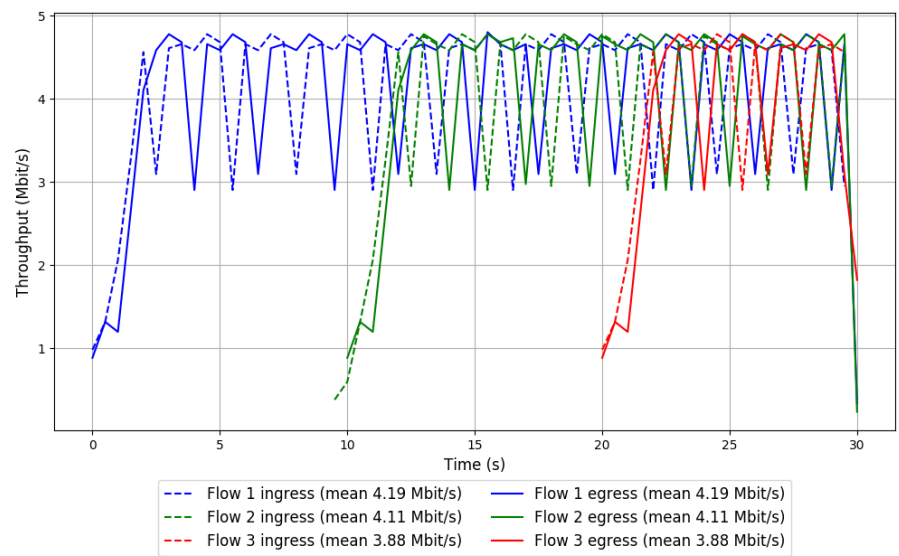


```
Run 1: Statistics of KohoCC

Start at: 2017-09-01 03:58:45
End at: 2017-09-01 03:59:15

# Below is generated by plot.py at 2017-09-01 07:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 138.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 138.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 137.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 138.195 ms
Loss rate: 0.00%
```

Run 1: Report of KohoCC — Data Link

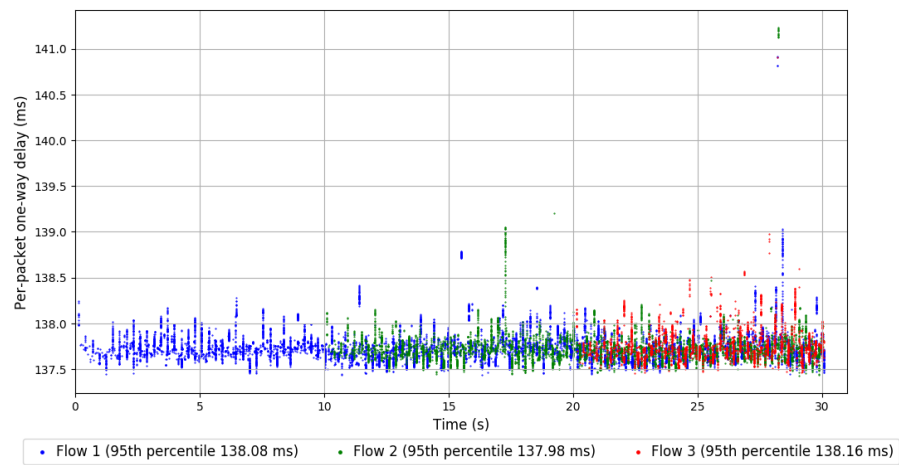
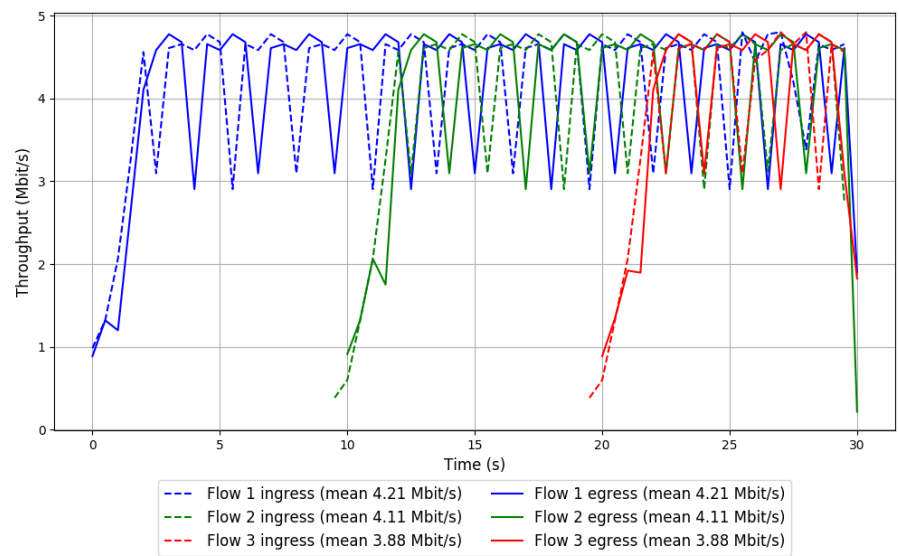


```
Run 2: Statistics of KohoCC

Start at: 2017-09-01 04:12:54
End at: 2017-09-01 04:13:24

# Below is generated by plot.py at 2017-09-01 07:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 138.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 138.082 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 137.978 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 138.164 ms
Loss rate: 0.00%
```

Run 2: Report of KohoCC — Data Link



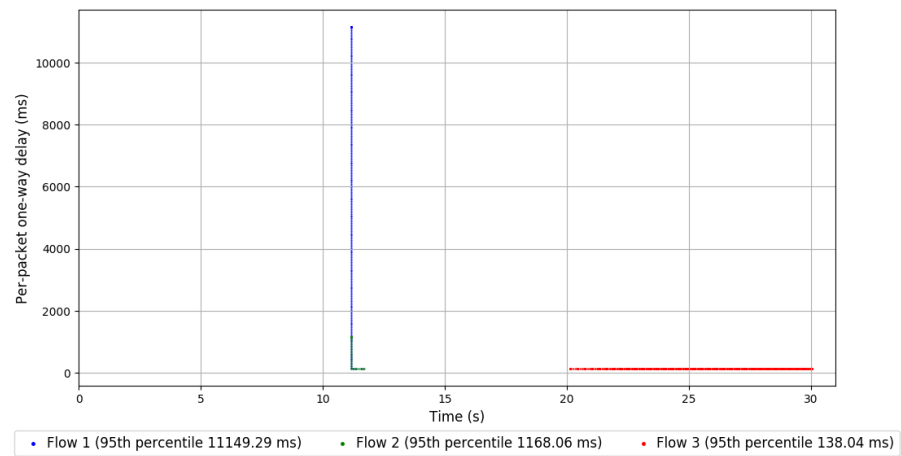
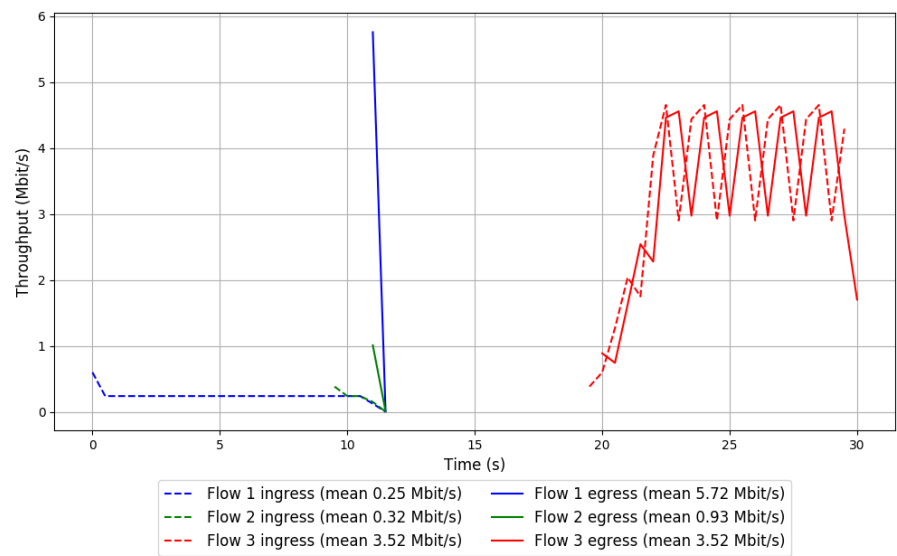
Run 3: Statistics of KohoCC

Start at: 2017-09-01 04:26:43

End at: 2017-09-01 04:27:13



Run 3: Report of KohoCC — Data Link

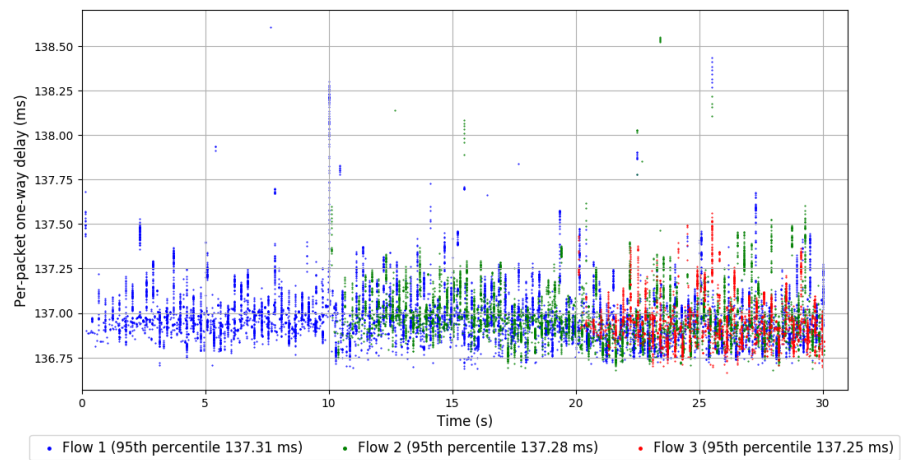
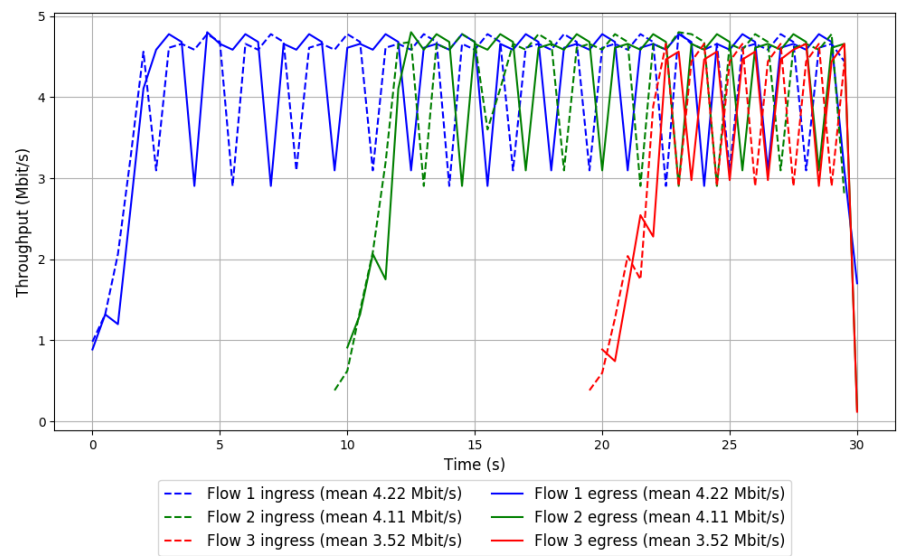


```
Run 4: Statistics of KohoCC

Start at: 2017-09-01 04:40:43
End at: 2017-09-01 04:41:13

# Below is generated by plot.py at 2017-09-01 07:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 137.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 137.306 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 137.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 137.246 ms
Loss rate: 0.00%
```

Run 4: Report of KohoCC — Data Link



Run 5: Statistics of KohoCC

Start at: 2017-09-01 04:54:55

End at: 2017-09-01 04:55:25

# Below is generated by plot.py at 2017-09-01 07:43:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 137.354 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 137.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 137.318 ms

Loss rate: 0.02%

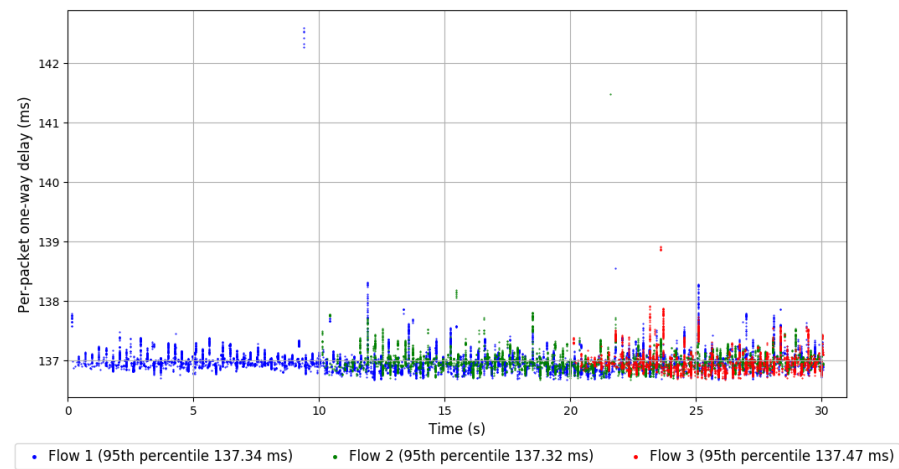
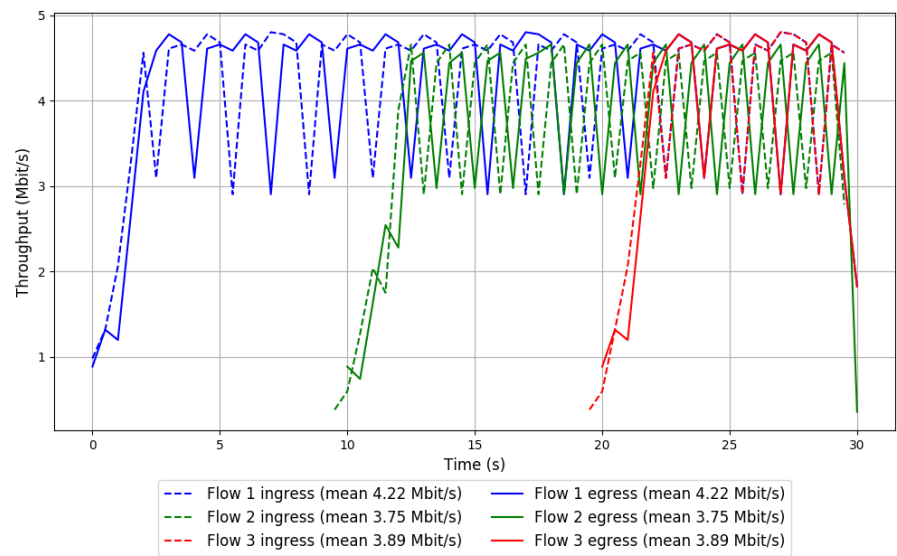
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 137.466 ms

Loss rate: 0.00%

Run 5: Report of KohoCC — Data Link

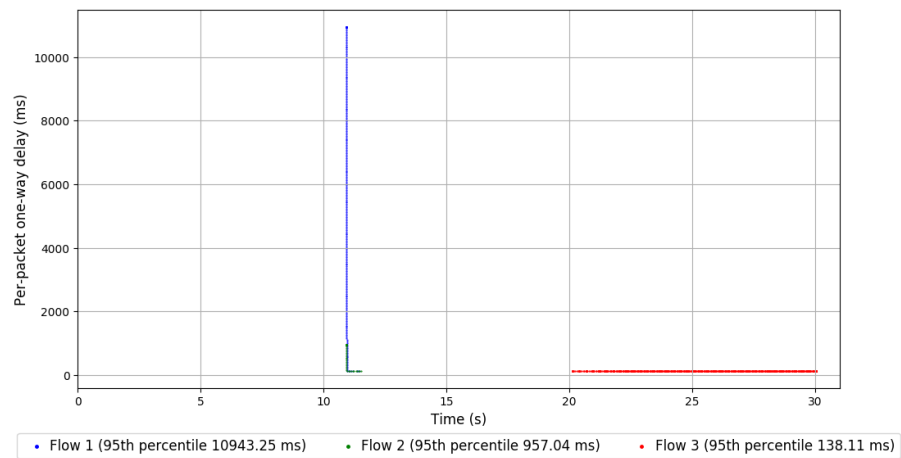
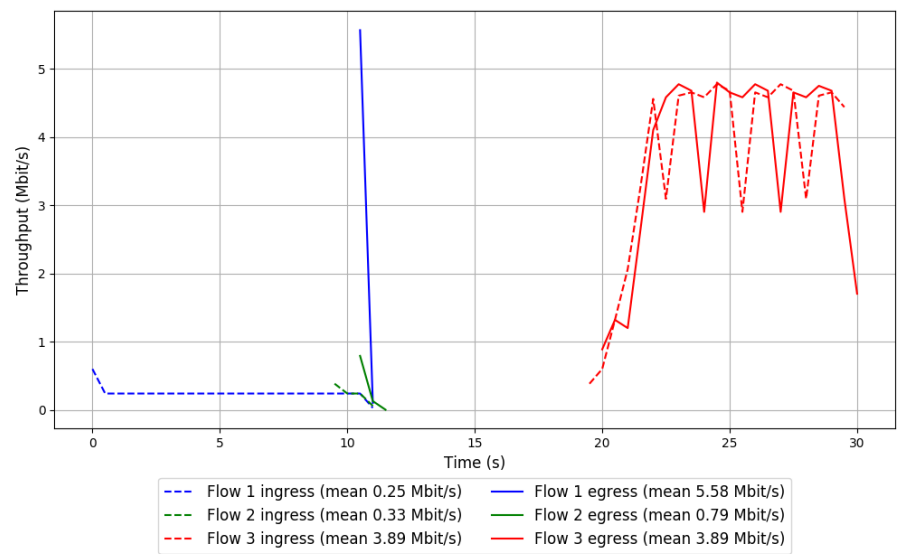


Run 6: Statistics of KohoCC

Start at: 2017-09-01 05:08:53

End at: 2017-09-01 05:09:23

Run 6: Report of KohoCC — Data Link



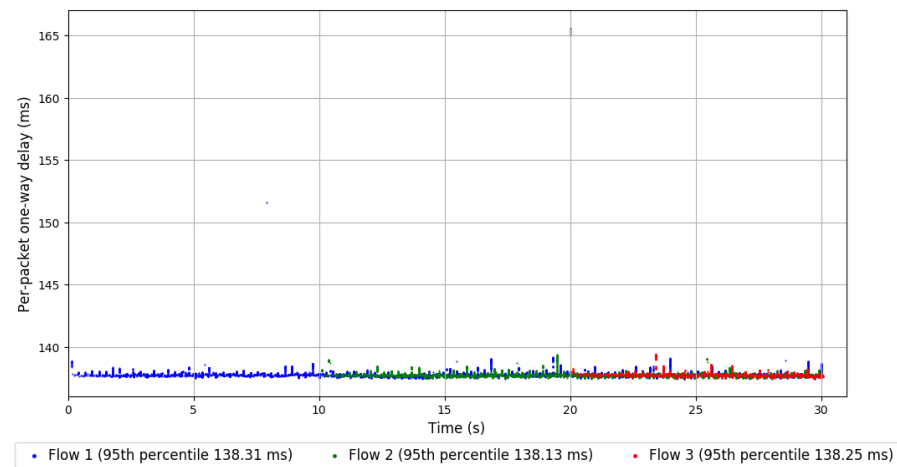
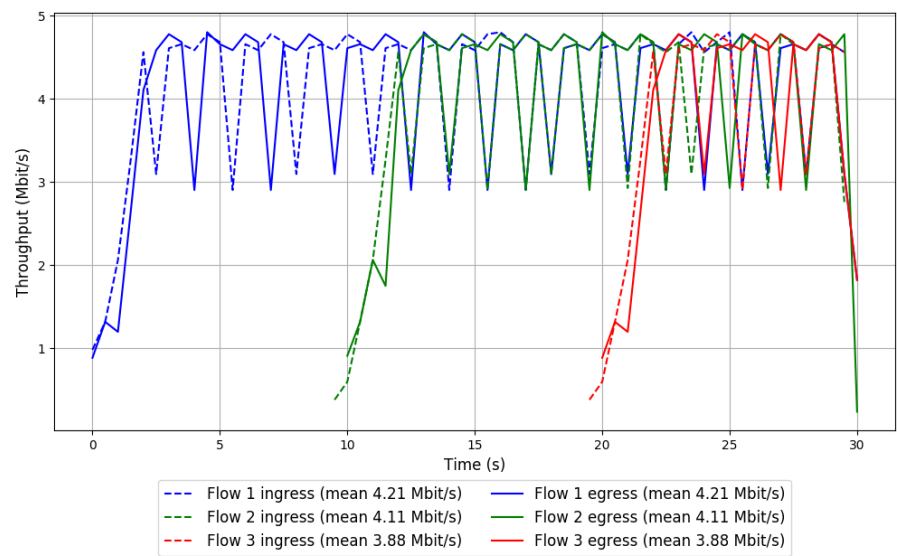
```
Run 7: Statistics of KohoCC

Start at: 2017-09-01 05:22:36
End at: 2017-09-01 05:23:06

# Below is generated by plot.py at 2017-09-01 07:43:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 138.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 138.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 138.131 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 138.251 ms
Loss rate: 0.00%
```



Run 7: Report of KohoCC — Data Link



Run 8: Statistics of KohoCC

Start at: 2017-09-01 05:36:21

End at: 2017-09-01 05:36:51

# Below is generated by plot.py at 2017-09-01 07:43:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 137.404 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 137.459 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 137.289 ms

Loss rate: 0.01%

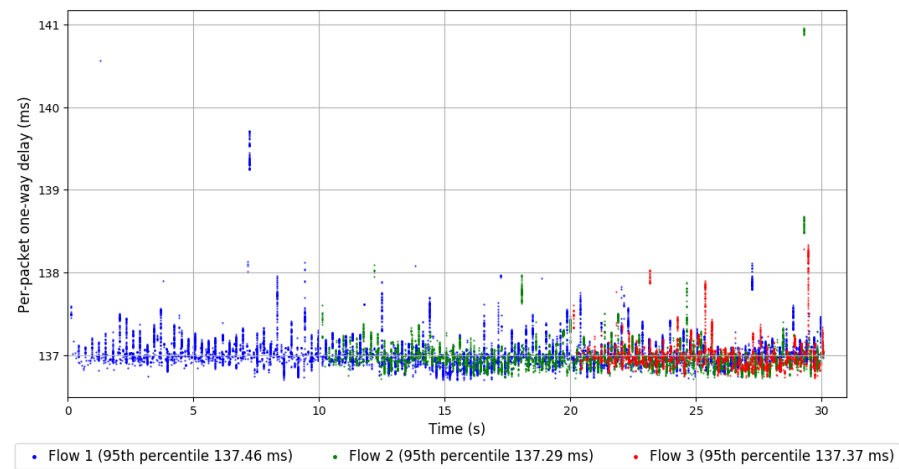
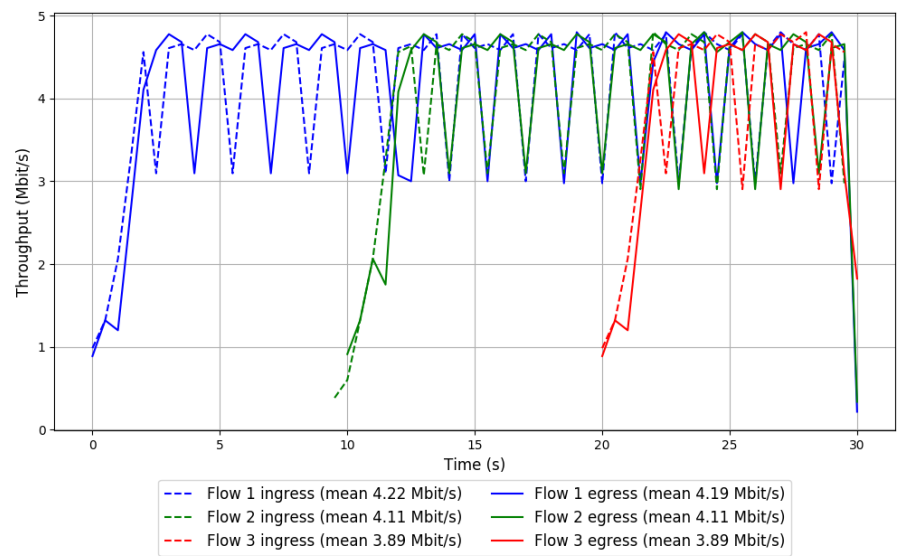
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 137.372 ms

Loss rate: 0.00%

Run 8: Report of KohoCC — Data Link



Run 9: Statistics of KohoCC

Start at: 2017-09-01 05:50:30

End at: 2017-09-01 05:51:00

# Below is generated by plot.py at 2017-09-01 07:43:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.25 Mbit/s

95th percentile per-packet one-way delay: 137.340 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 137.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 137.379 ms

Loss rate: 0.00%

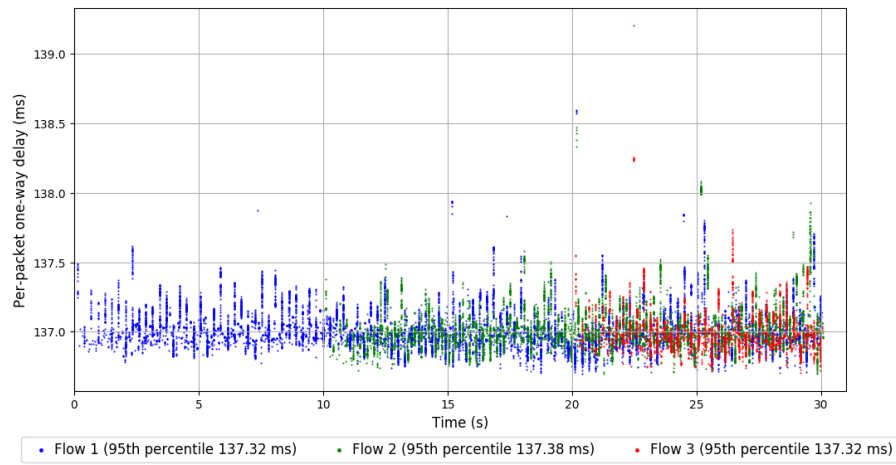
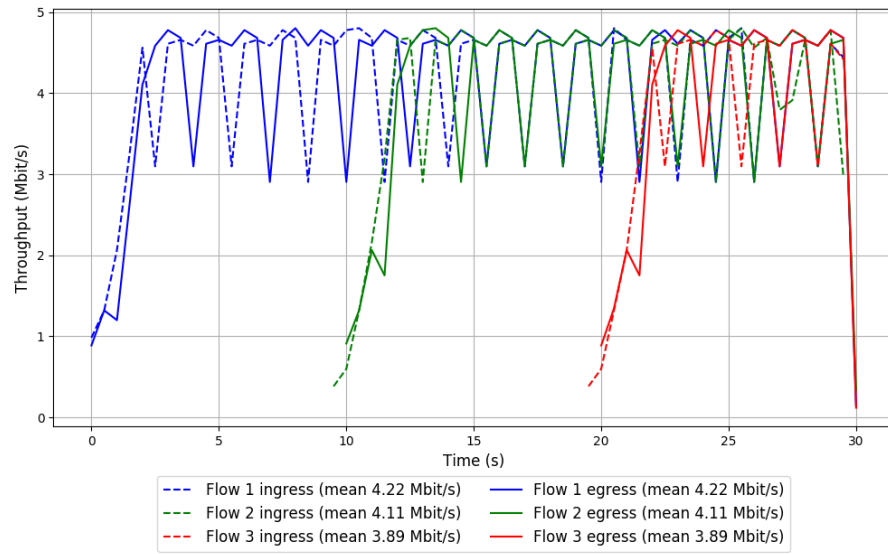
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 137.317 ms

Loss rate: 0.00%

# Run 9: Report of KohoCC — Data Link

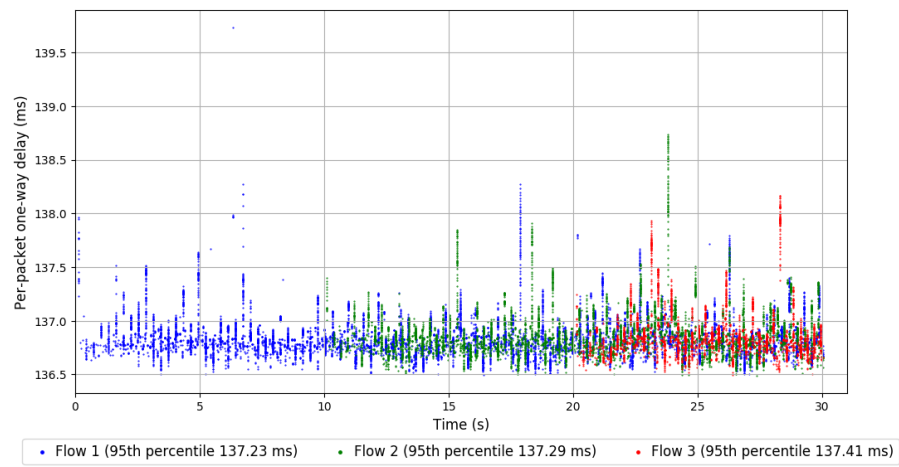
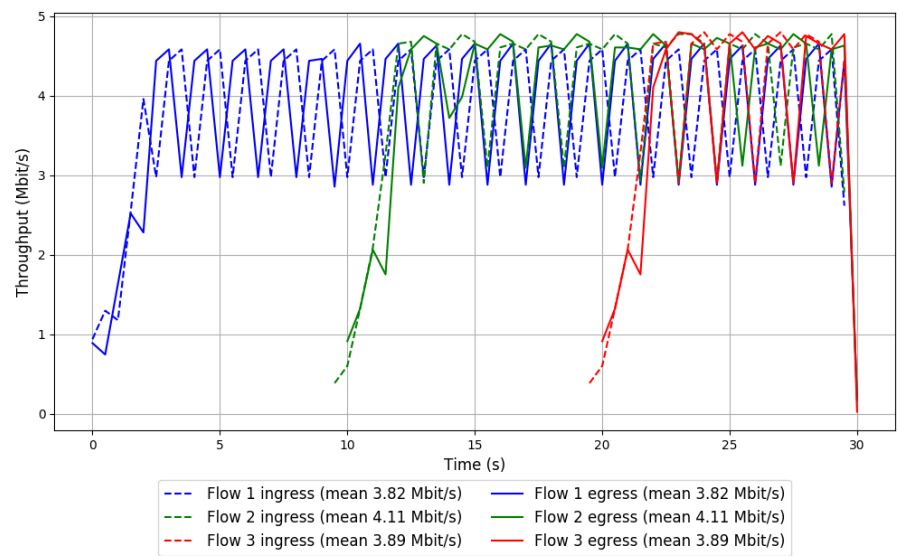


```
Run 10: Statistics of KohoCC

Start at: 2017-09-01 06:04:38
End at: 2017-09-01 06:05:08

# Below is generated by plot.py at 2017-09-01 07:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 137.271 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 137.229 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 137.295 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 137.407 ms
Loss rate: 0.19%
```

Run 10: Report of KohoCC — Data Link



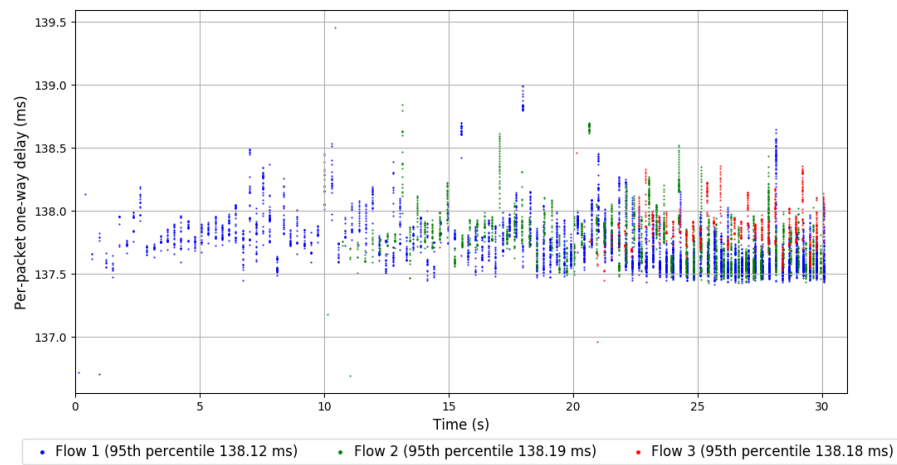
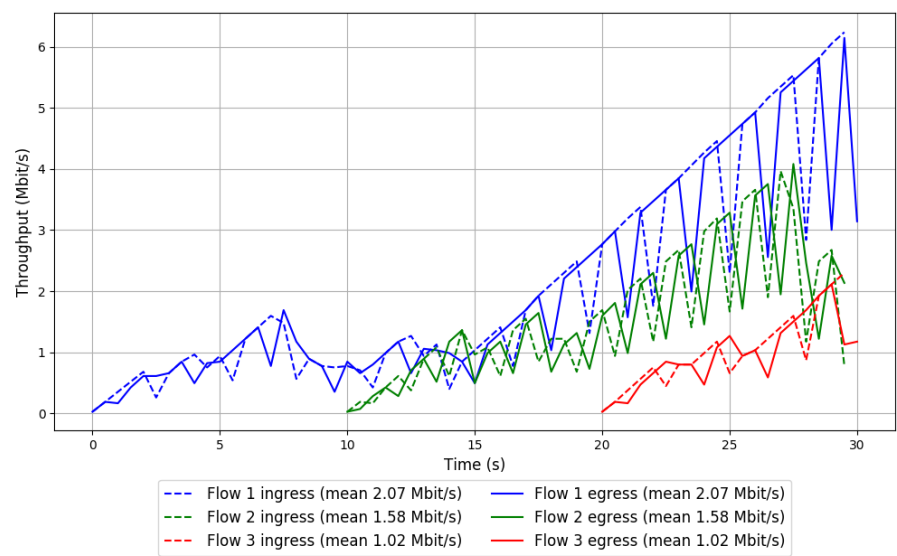
```
Run 1: Statistics of LEDBAT

Start at: 2017-09-01 03:56:54
End at: 2017-09-01 03:57:24

# Below is generated by plot.py at 2017-09-01 07:43:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 138.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 138.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 138.195 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 138.184 ms
Loss rate: 0.00%
```



Run 1: Report of LEDBAT — Data Link

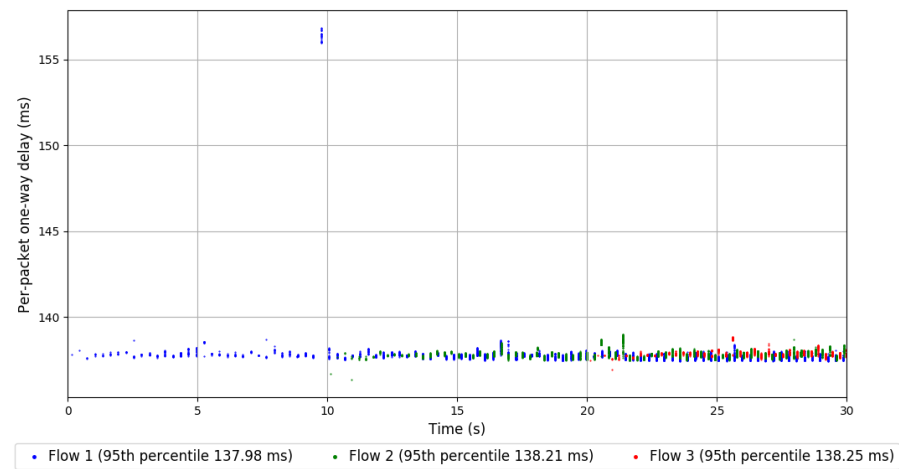
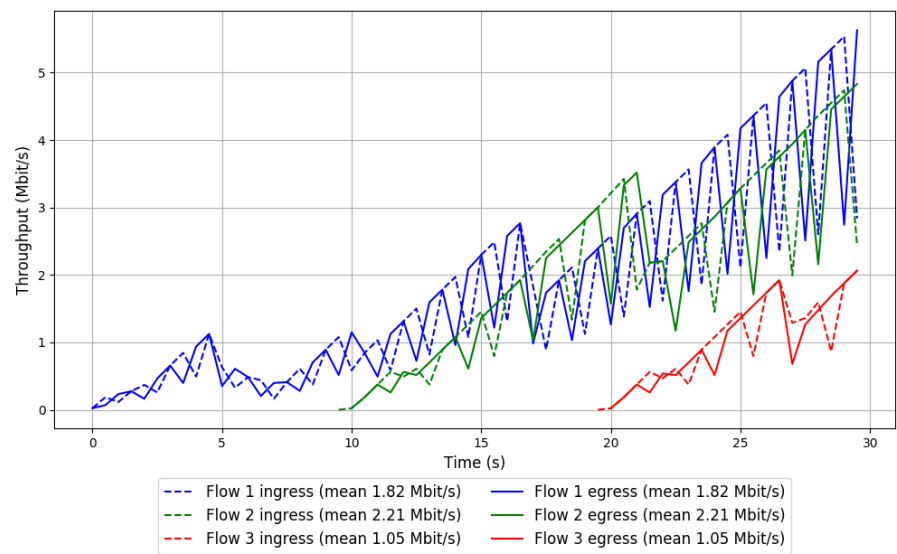


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-01 04:11:07
End at: 2017-09-01 04:11:37

# Below is generated by plot.py at 2017-09-01 07:43:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 138.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 137.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 138.213 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 138.247 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-01 04:24:56

End at: 2017-09-01 04:25:26

# Below is generated by plot.py at 2017-09-01 07:43:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 138.134 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 138.300 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 138.118 ms

Loss rate: 3.21%

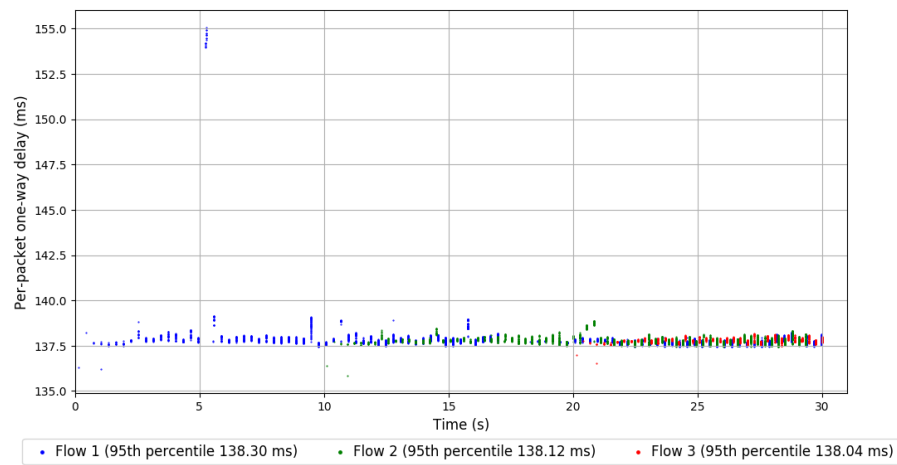
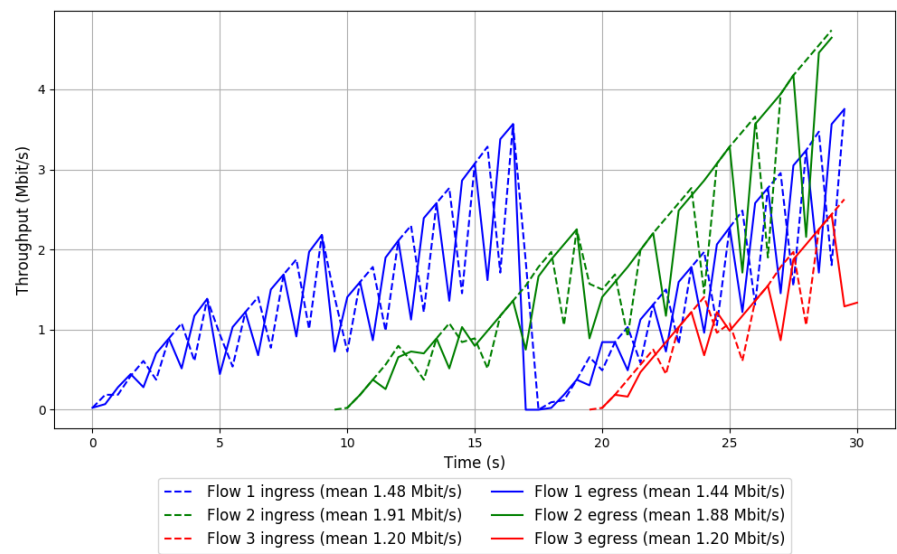
-- Flow 3:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 138.045 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-01 04:38:55

End at: 2017-09-01 04:39:25

# Below is generated by plot.py at 2017-09-01 07:43:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 137.389 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 137.392 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 137.353 ms

Loss rate: 0.00%

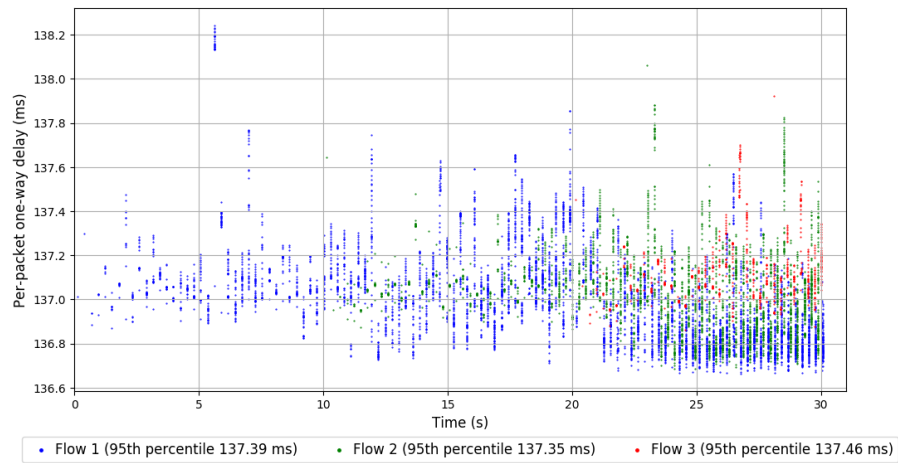
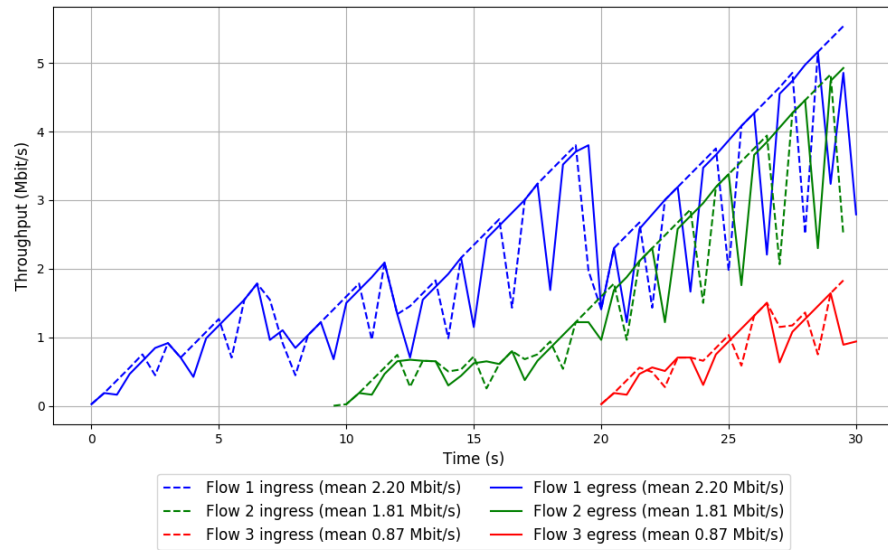
-- Flow 3:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 137.456 ms

Loss rate: 0.00%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-01 04:53:06

End at: 2017-09-01 04:53:36

# Below is generated by plot.py at 2017-09-01 07:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.51 Mbit/s

95th percentile per-packet one-way delay: 137.533 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 137.529 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 137.520 ms

Loss rate: 0.00%

-- Flow 3:

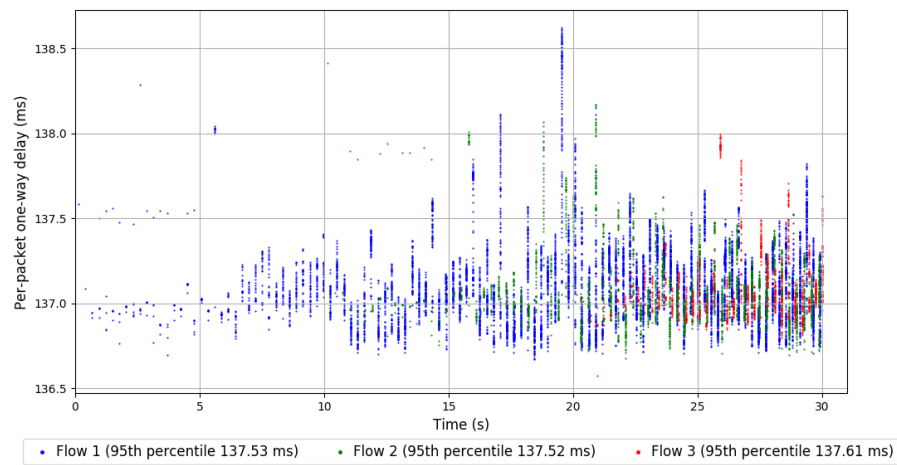
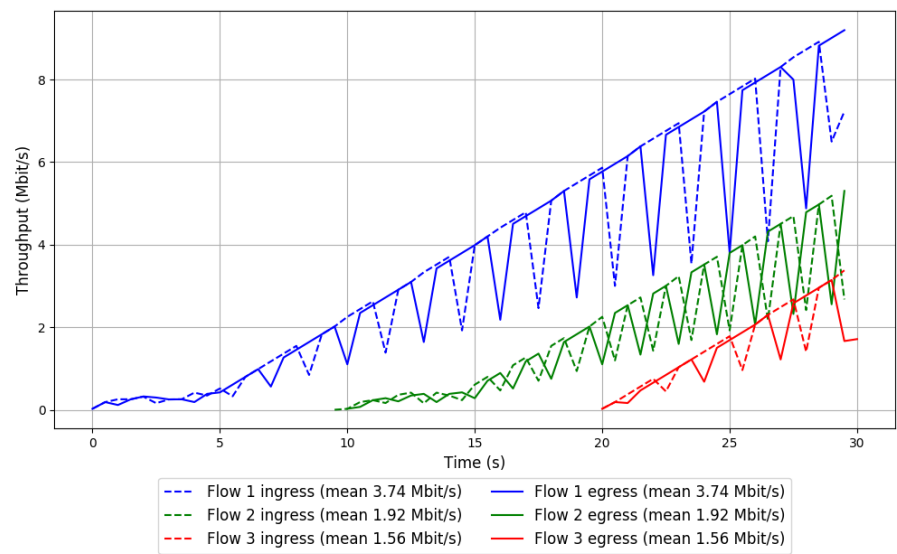
Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 137.606 ms

Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-01 05:07:05

End at: 2017-09-01 05:07:35

# Below is generated by plot.py at 2017-09-01 07:43:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 138.614 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 138.720 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 138.443 ms

Loss rate: 0.09%

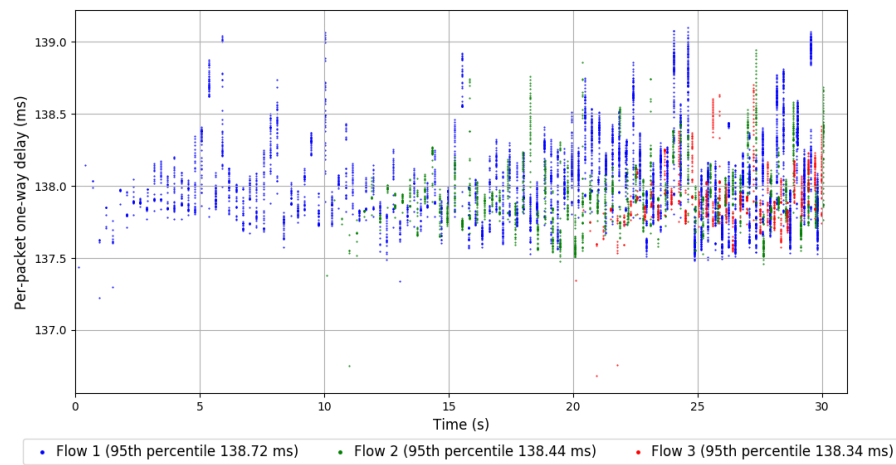
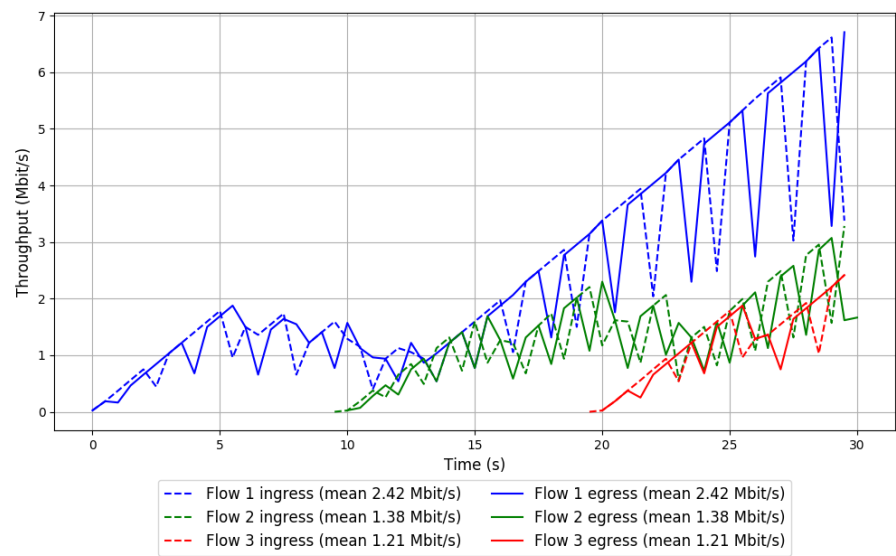
-- Flow 3:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 138.342 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-01 05:20:48

End at: 2017-09-01 05:21:18

# Below is generated by plot.py at 2017-09-01 07:43:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 138.605 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 138.449 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 139.068 ms

Loss rate: 0.15%

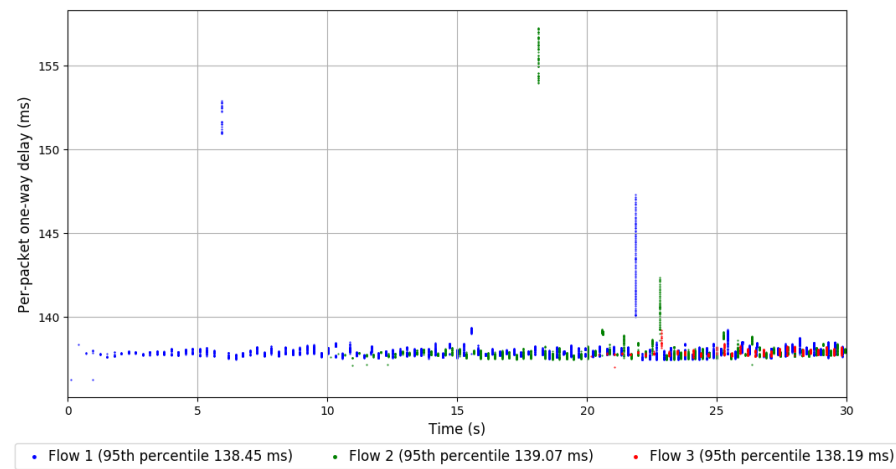
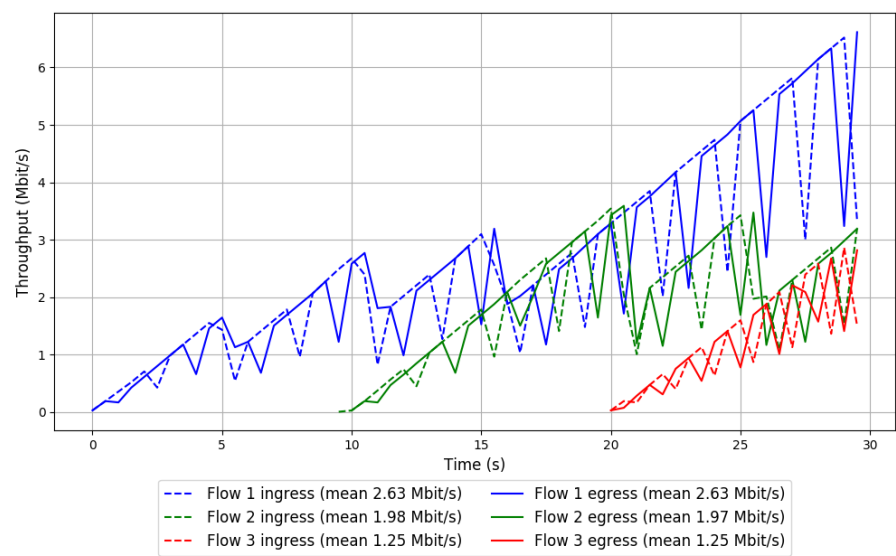
-- Flow 3:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 138.193 ms

Loss rate: 0.58%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-01 05:34:33

End at: 2017-09-01 05:35:03

# Below is generated by plot.py at 2017-09-01 07:43:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 137.616 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 137.574 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 137.705 ms

Loss rate: 0.00%

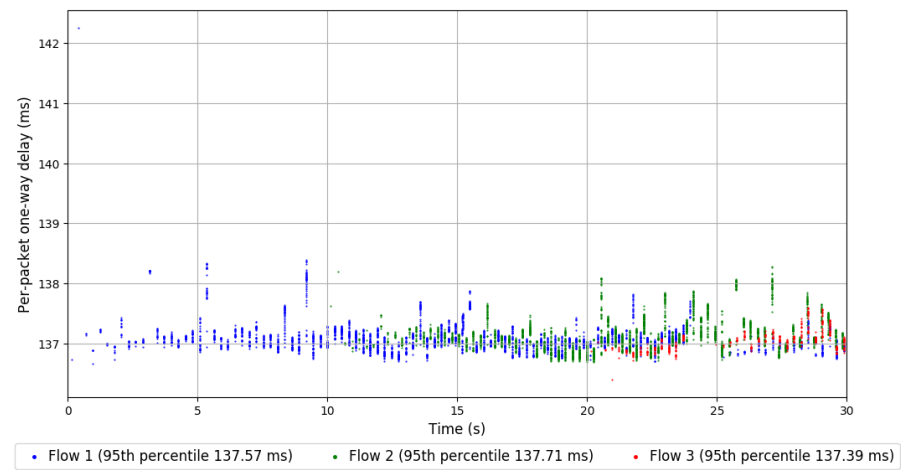
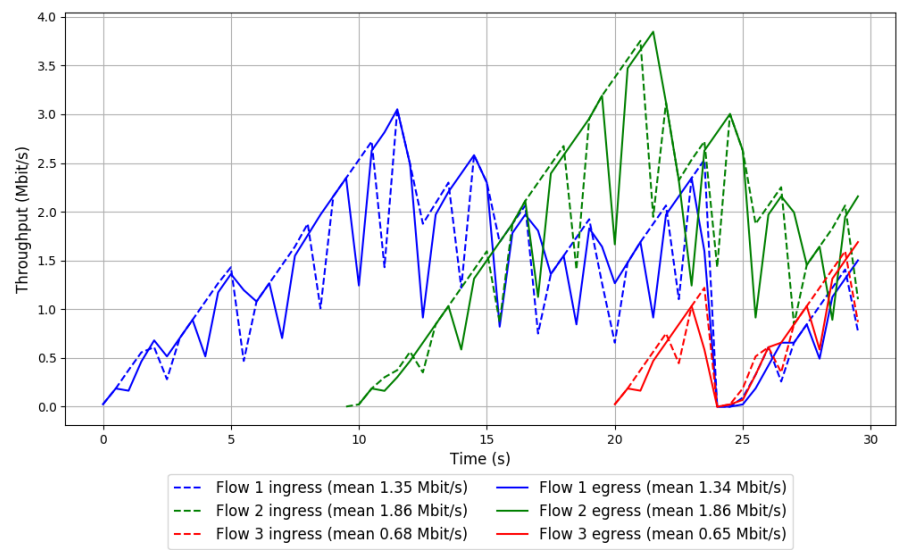
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 137.389 ms

Loss rate: 4.78%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-01 05:48:41

End at: 2017-09-01 05:49:11

# Below is generated by plot.py at 2017-09-01 07:43:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.48 Mbit/s

95th percentile per-packet one-way delay: 137.656 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 137.524 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 137.847 ms

Loss rate: 0.00%

-- Flow 3:

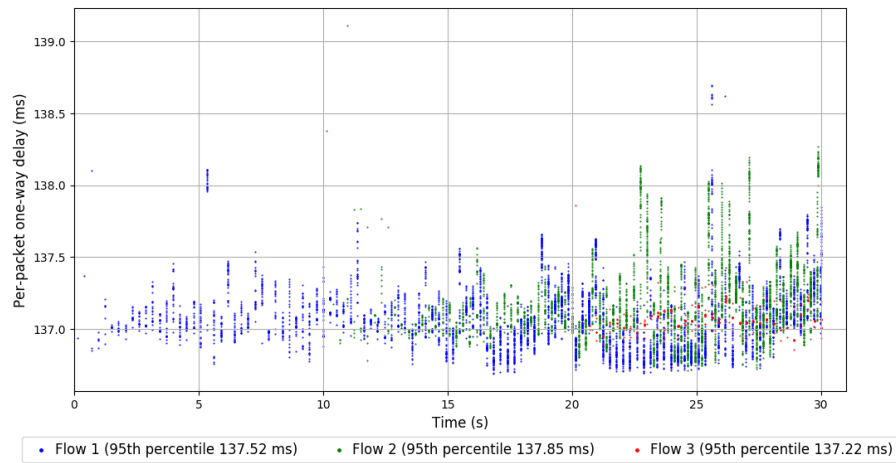
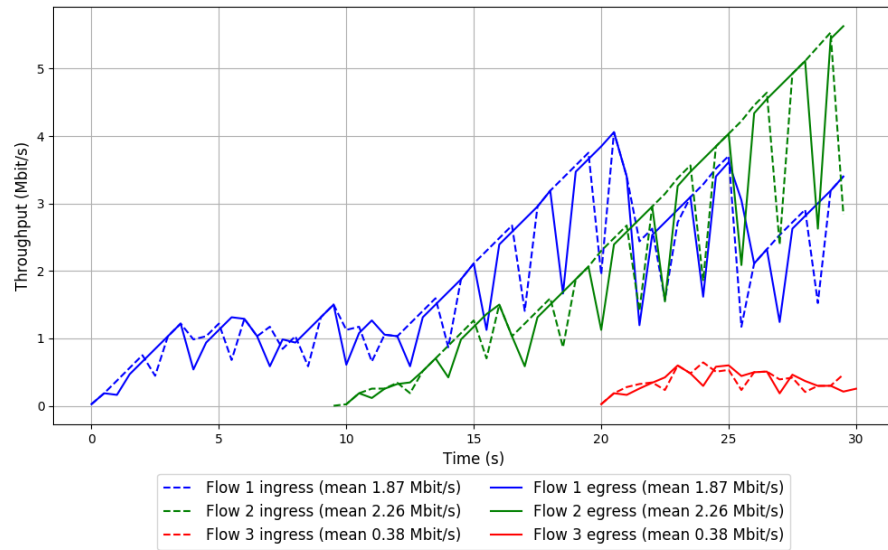
Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.00%



# Run 9: Report of LEDBAT — Data Link

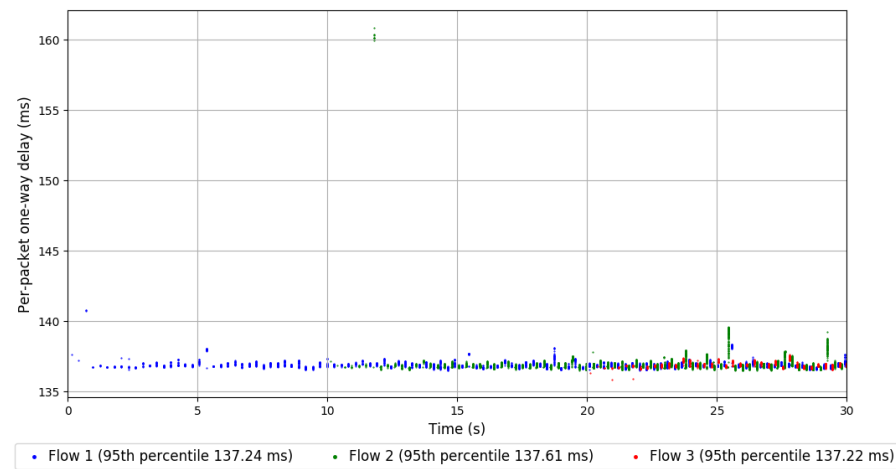
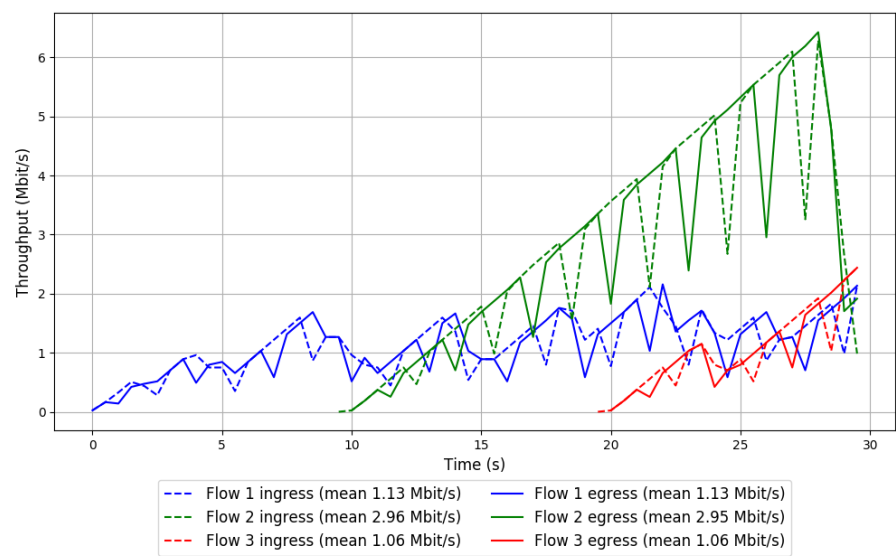


```
Run 10: Statistics of LEDBAT

Start at: 2017-09-01 06:02:50
End at: 2017-09-01 06:03:20

# Below is generated by plot.py at 2017-09-01 07:43:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 137.444 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 137.242 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 137.608 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 137.225 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

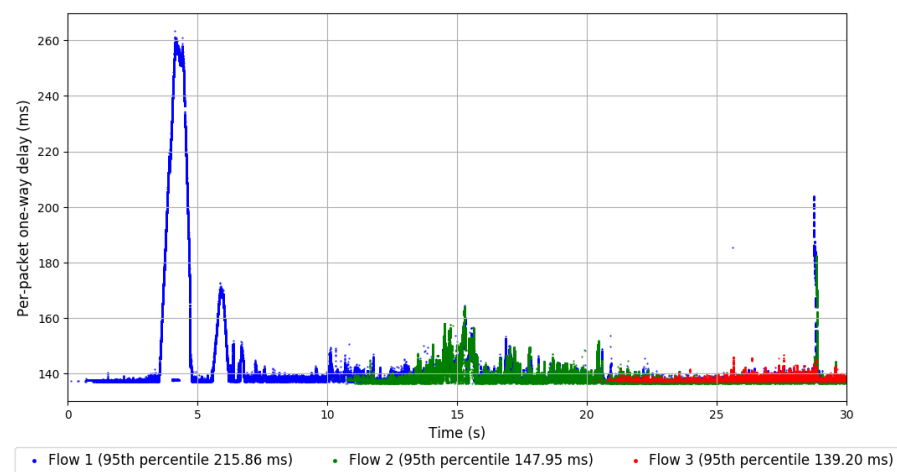
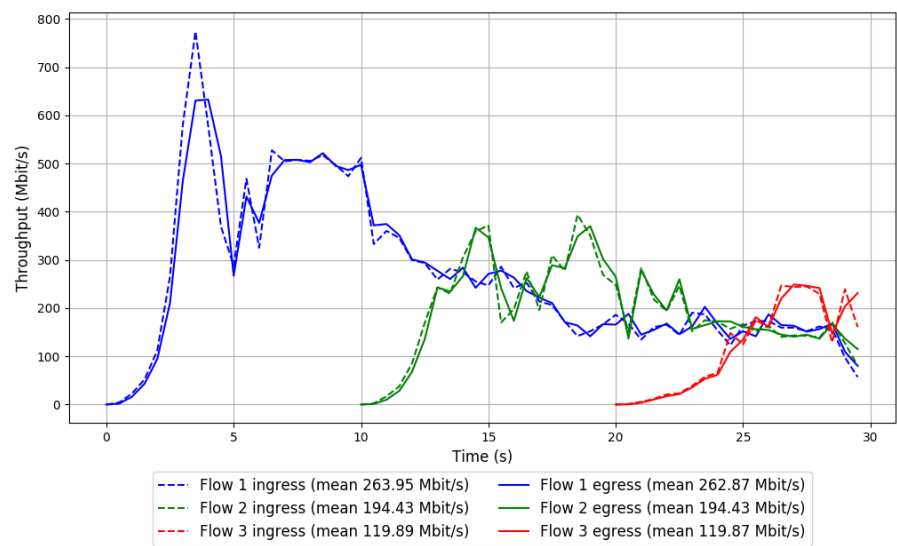


```
Run 1: Statistics of PCC

Start at: 2017-09-01 03:54:51
End at: 2017-09-01 03:55:21

# Below is generated by plot.py at 2017-09-01 07:44:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 430.72 Mbit/s
95th percentile per-packet one-way delay: 170.070 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 262.87 Mbit/s
95th percentile per-packet one-way delay: 215.859 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 194.43 Mbit/s
95th percentile per-packet one-way delay: 147.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.87 Mbit/s
95th percentile per-packet one-way delay: 139.197 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link

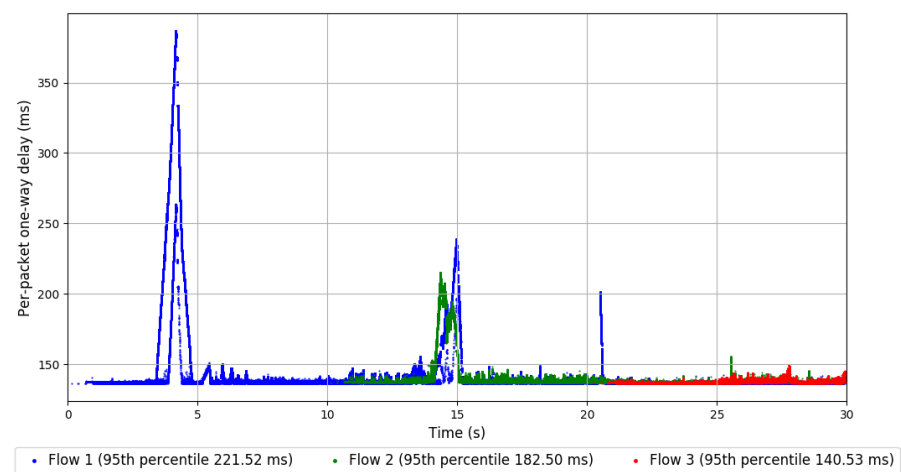
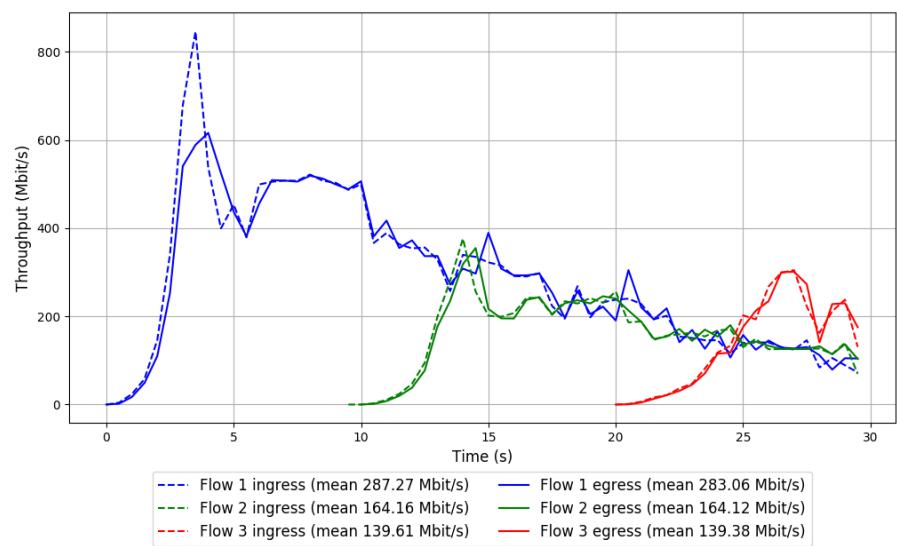


```
Run 2: Statistics of PCC

Start at: 2017-09-01 04:09:07
End at: 2017-09-01 04:09:37

# Below is generated by plot.py at 2017-09-01 07:44:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 437.33 Mbit/s
95th percentile per-packet one-way delay: 198.822 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 283.06 Mbit/s
95th percentile per-packet one-way delay: 221.516 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 164.12 Mbit/s
95th percentile per-packet one-way delay: 182.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.38 Mbit/s
95th percentile per-packet one-way delay: 140.526 ms
Loss rate: 0.12%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-01 04:22:57

End at: 2017-09-01 04:23:27

# Below is generated by plot.py at 2017-09-01 07:46:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 419.05 Mbit/s

95th percentile per-packet one-way delay: 202.363 ms

Loss rate: 2.41%

-- Flow 1:

Average throughput: 238.51 Mbit/s

95th percentile per-packet one-way delay: 307.124 ms

Loss rate: 4.15%

-- Flow 2:

Average throughput: 207.27 Mbit/s

95th percentile per-packet one-way delay: 144.690 ms

Loss rate: 0.02%

-- Flow 3:

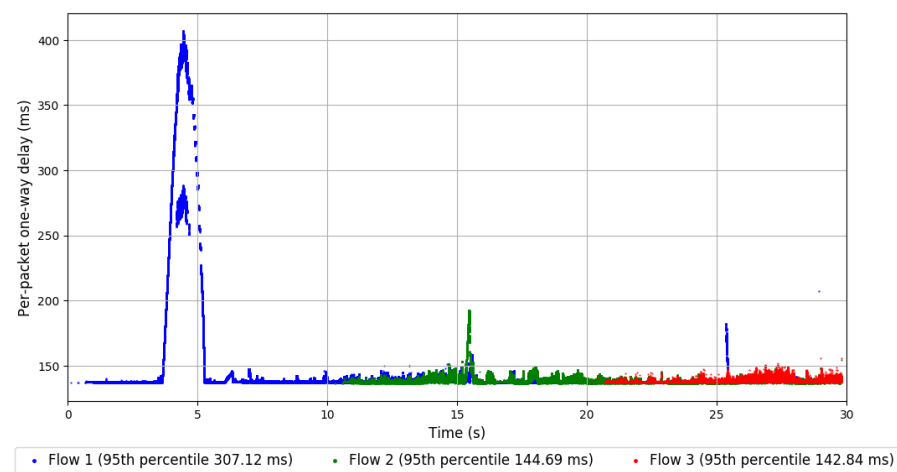
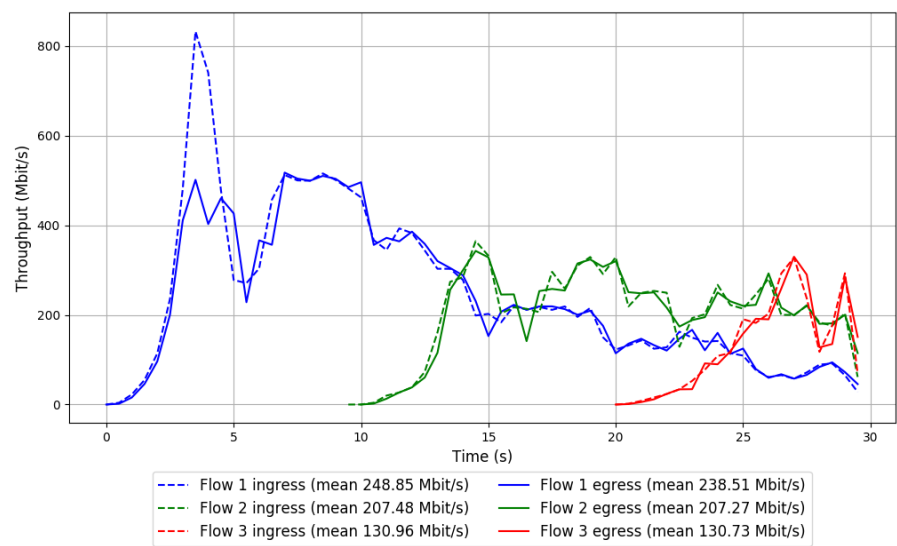
Average throughput: 130.73 Mbit/s

95th percentile per-packet one-way delay: 142.842 ms

Loss rate: 0.00%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-01 04:36:56

End at: 2017-09-01 04:37:26

# Below is generated by plot.py at 2017-09-01 07:46:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 428.88 Mbit/s

95th percentile per-packet one-way delay: 197.503 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 248.21 Mbit/s

95th percentile per-packet one-way delay: 286.535 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 212.02 Mbit/s

95th percentile per-packet one-way delay: 152.313 ms

Loss rate: 0.00%

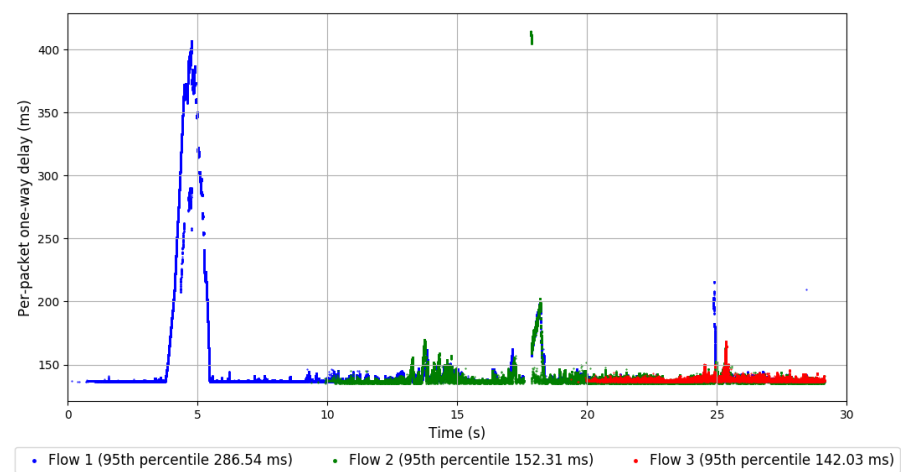
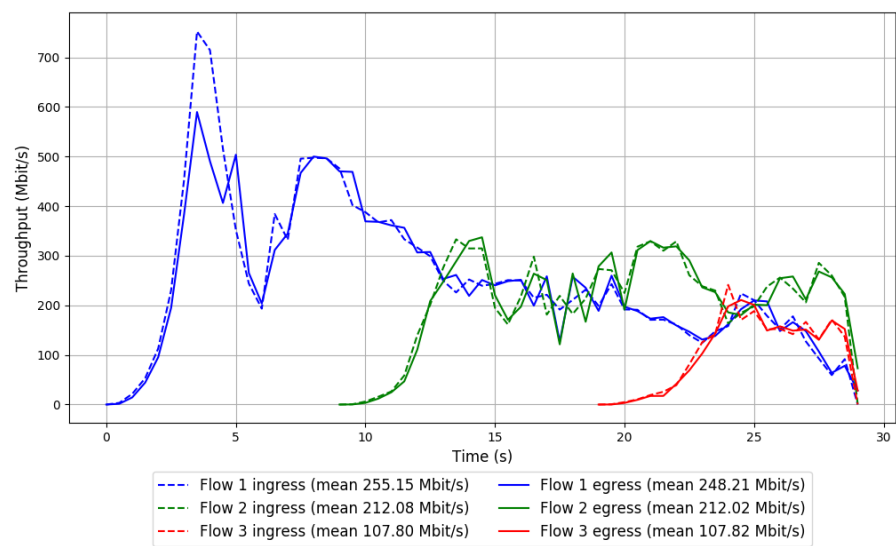
-- Flow 3:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 142.033 ms

Loss rate: 0.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-01 04:51:07

End at: 2017-09-01 04:51:37

# Below is generated by plot.py at 2017-09-01 07:47:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 438.49 Mbit/s

95th percentile per-packet one-way delay: 172.339 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 314.81 Mbit/s

95th percentile per-packet one-way delay: 190.738 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 122.10 Mbit/s

95th percentile per-packet one-way delay: 149.461 ms

Loss rate: 0.00%

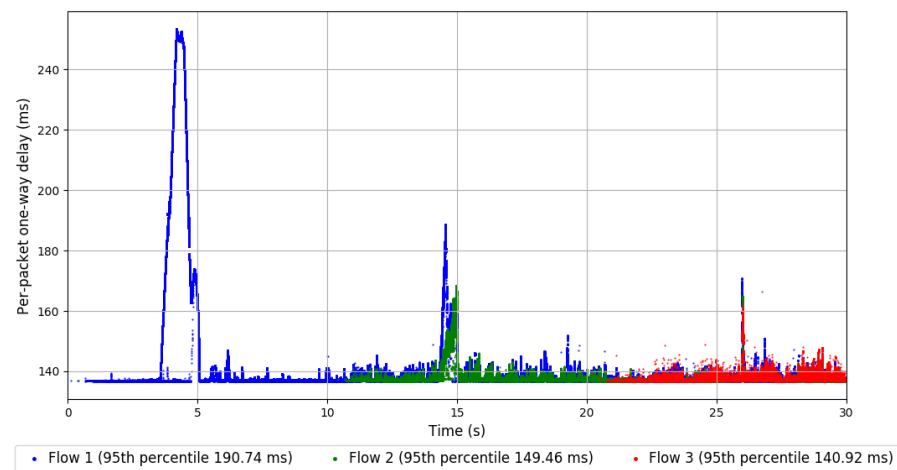
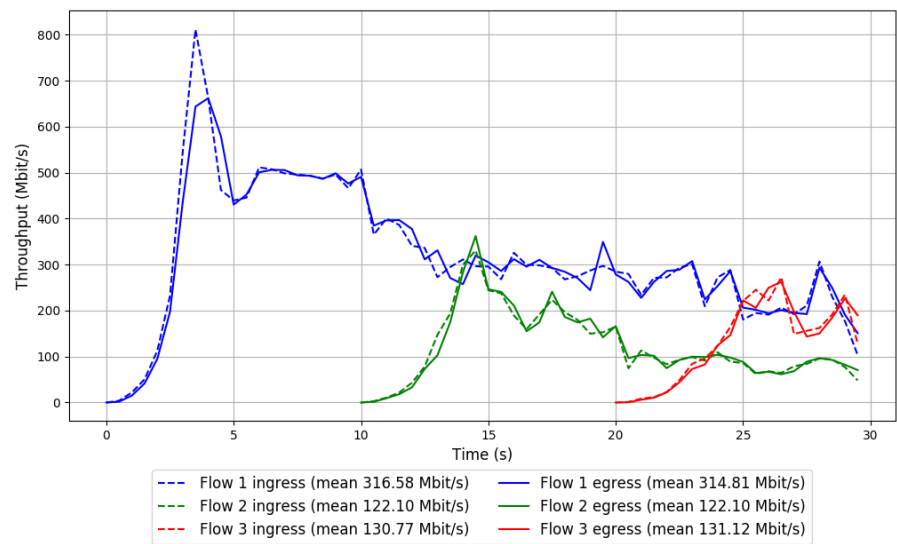
-- Flow 3:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 140.918 ms

Loss rate: 0.01%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-01 05:05:07

End at: 2017-09-01 05:05:37

# Below is generated by plot.py at 2017-09-01 07:47:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 405.58 Mbit/s

95th percentile per-packet one-way delay: 236.683 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 248.14 Mbit/s

95th percentile per-packet one-way delay: 277.727 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 173.55 Mbit/s

95th percentile per-packet one-way delay: 142.254 ms

Loss rate: 0.00%

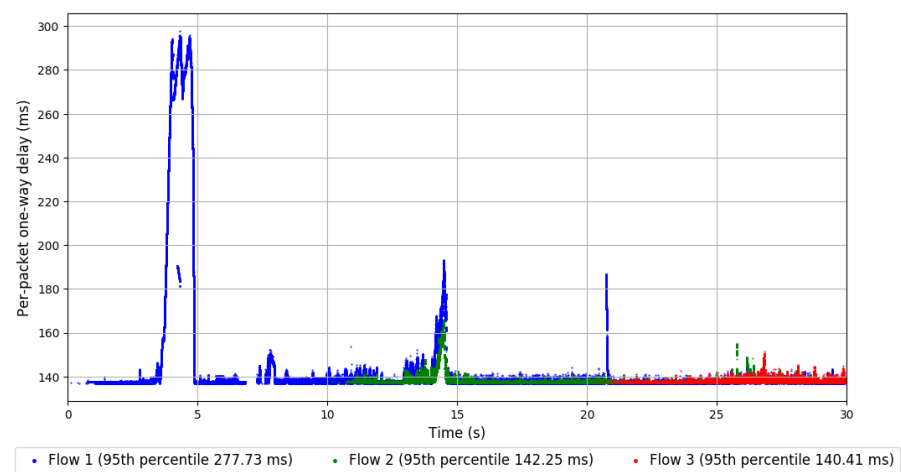
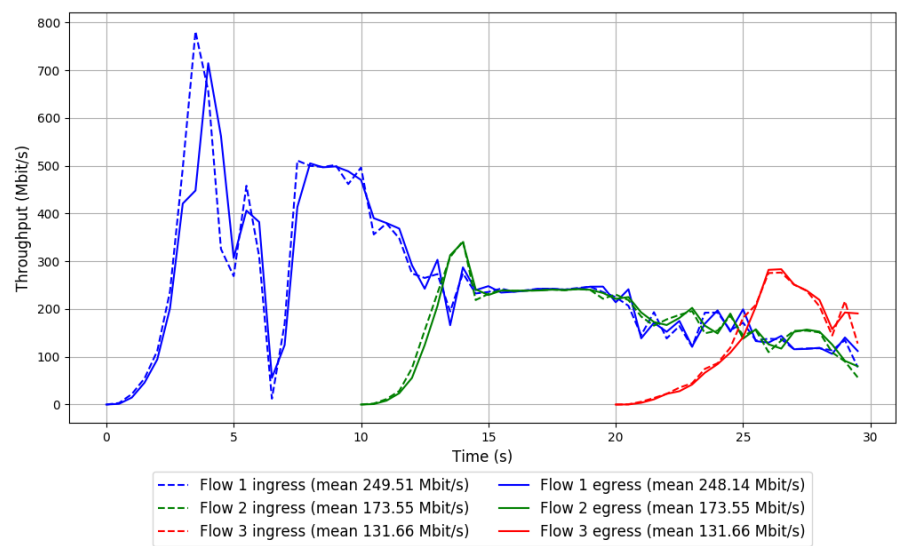
-- Flow 3:

Average throughput: 131.66 Mbit/s

95th percentile per-packet one-way delay: 140.407 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-01 05:18:47

End at: 2017-09-01 05:19:17



Run 7: Report of PCC — Data Link

Figure is missing

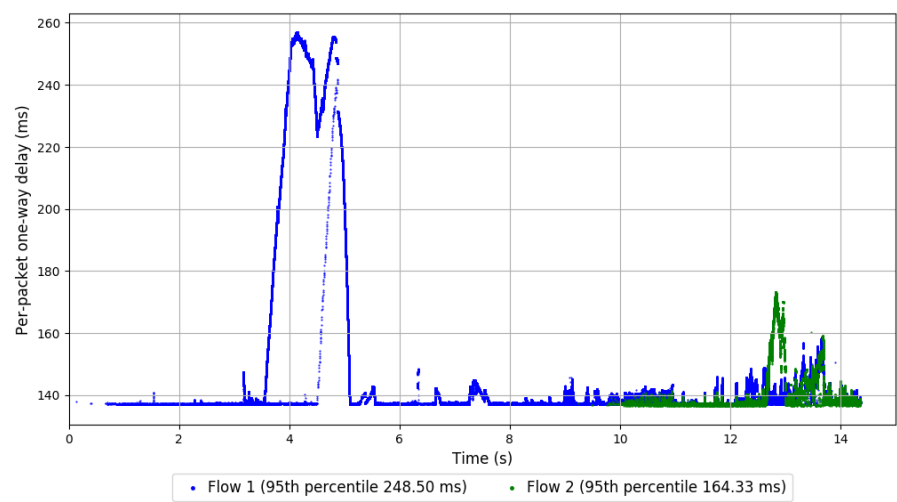
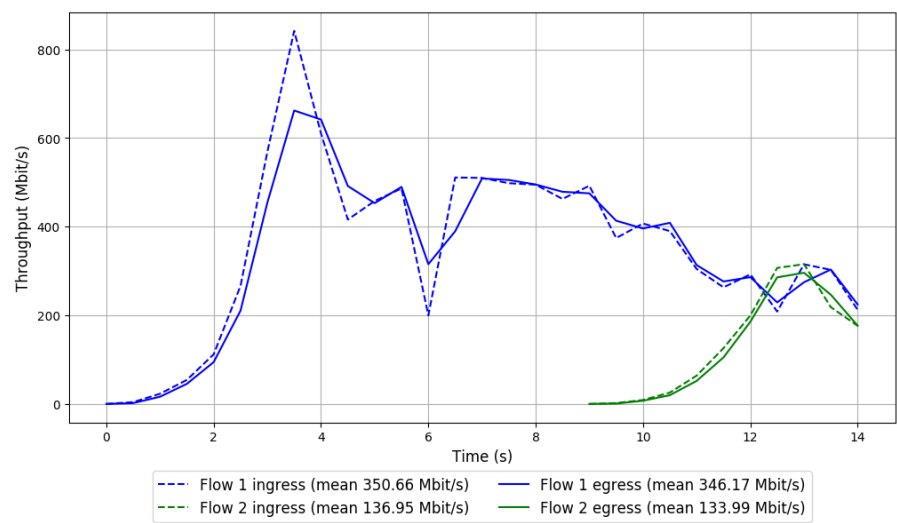
Figure is missing

Run 8: Statistics of PCC

Start at: 2017-09-01 05:32:38

End at: 2017-09-01 05:33:08

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-01 05:46:41

End at: 2017-09-01 05:47:11

# Below is generated by plot.py at 2017-09-01 07:49:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 443.70 Mbit/s

95th percentile per-packet one-way delay: 192.704 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 281.78 Mbit/s

95th percentile per-packet one-way delay: 242.790 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 191.67 Mbit/s

95th percentile per-packet one-way delay: 154.548 ms

Loss rate: 0.00%

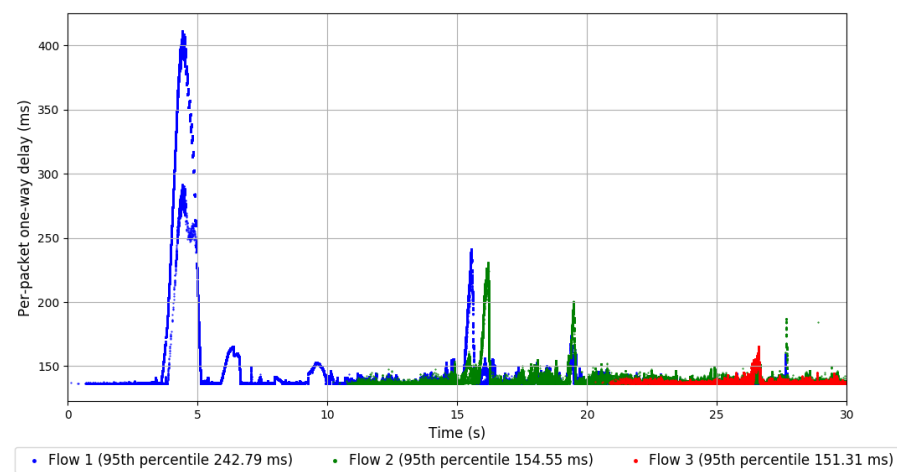
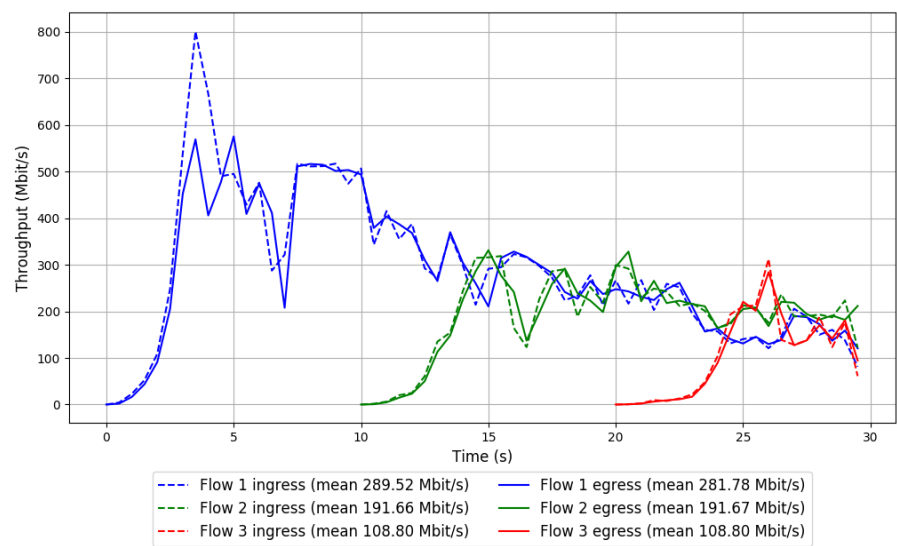
-- Flow 3:

Average throughput: 108.80 Mbit/s

95th percentile per-packet one-way delay: 151.314 ms

Loss rate: 0.01%

Run 9: Report of PCC — Data Link

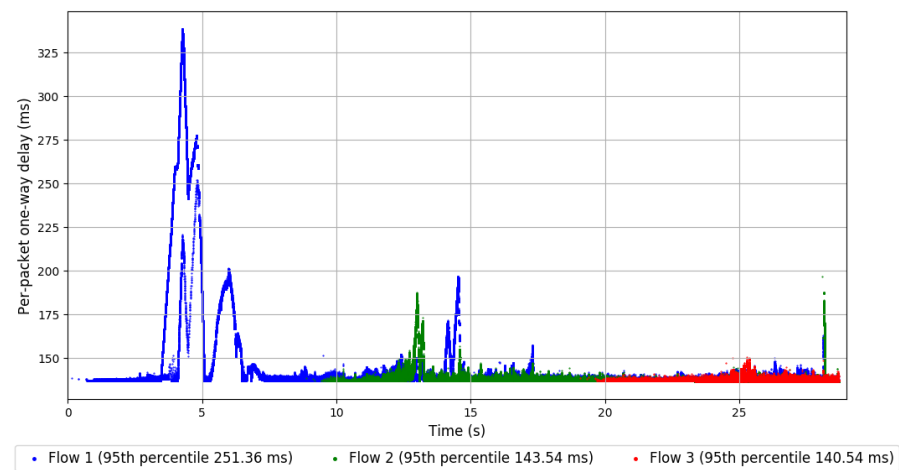
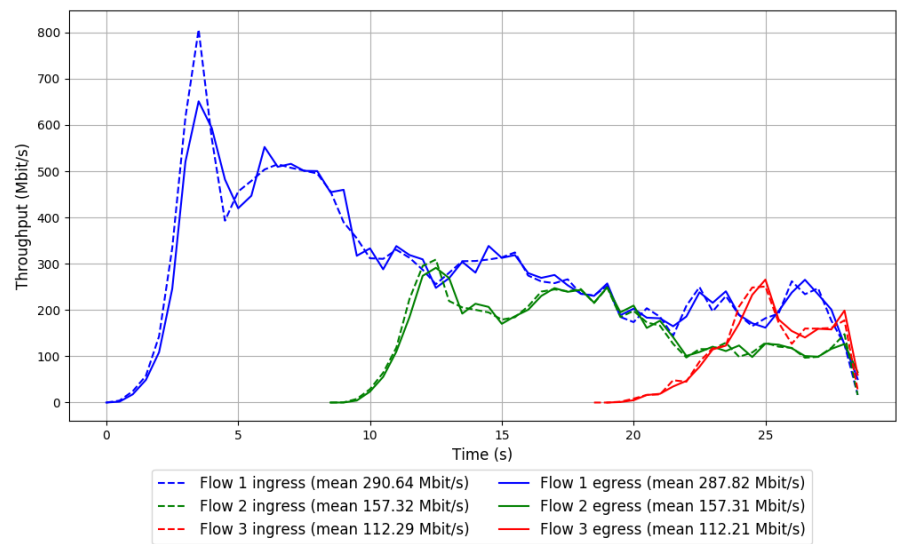


```
Run 10: Statistics of PCC

Start at: 2017-09-01 06:00:50
End at: 2017-09-01 06:01:20

# Below is generated by plot.py at 2017-09-01 07:49:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.68 Mbit/s
95th percentile per-packet one-way delay: 206.452 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 287.82 Mbit/s
95th percentile per-packet one-way delay: 251.362 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 157.31 Mbit/s
95th percentile per-packet one-way delay: 143.543 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 112.21 Mbit/s
95th percentile per-packet one-way delay: 140.538 ms
Loss rate: 0.09%
```

Run 10: Report of PCC — Data Link



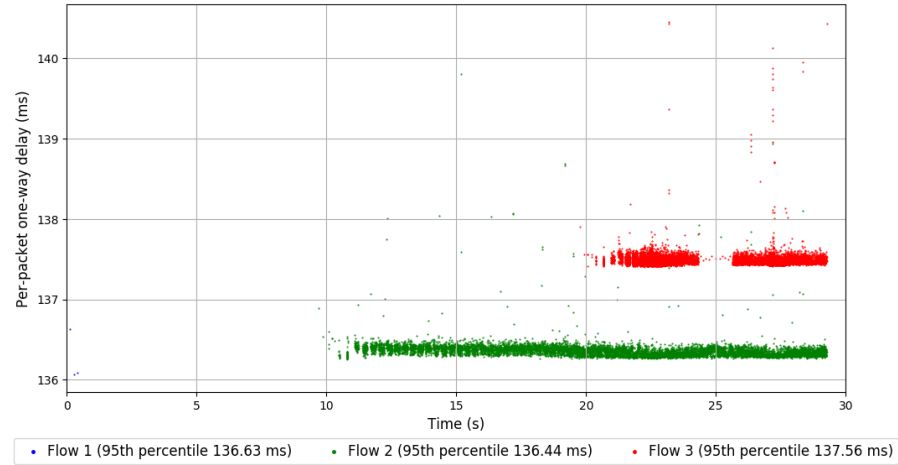
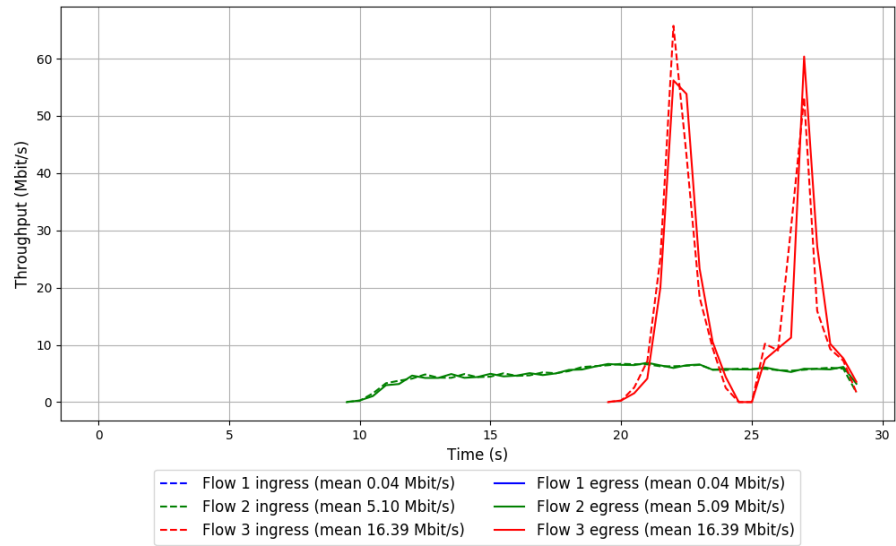
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-01 04:04:37
End at: 2017-09-01 04:05:07

# Below is generated by plot.py at 2017-09-01 07:49:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 137.546 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 136.443 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 16.39 Mbit/s
95th percentile per-packet one-way delay: 137.561 ms
Loss rate: 0.00%
```



## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-01 04:18:29

End at: 2017-09-01 04:18:59

# Below is generated by plot.py at 2017-09-01 07:49:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.73 Mbit/s

95th percentile per-packet one-way delay: 137.190 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 136.001 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 137.198 ms

Loss rate: 0.00%

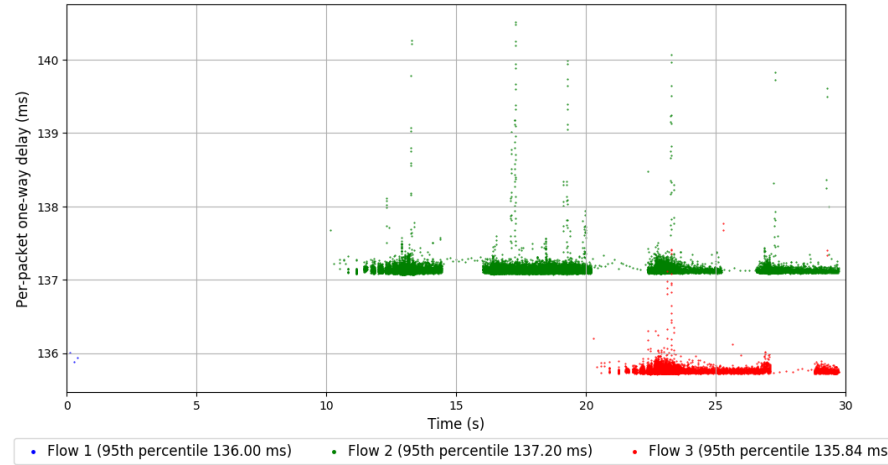
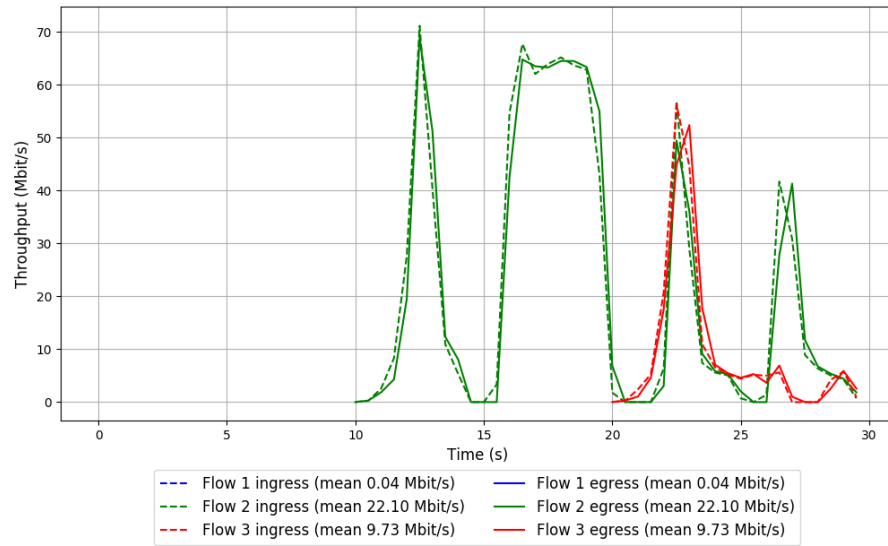
-- Flow 3:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 135.837 ms

Loss rate: 0.00%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-01 04:32:29

End at: 2017-09-01 04:32:59

# Below is generated by plot.py at 2017-09-01 07:49:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 136.153 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.18 Mbit/s

95th percentile per-packet one-way delay: 137.609 ms

Loss rate: 0.00%

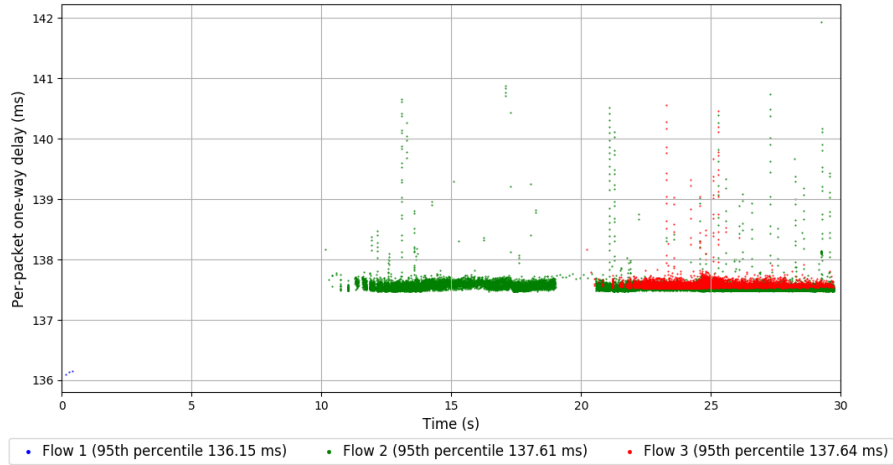
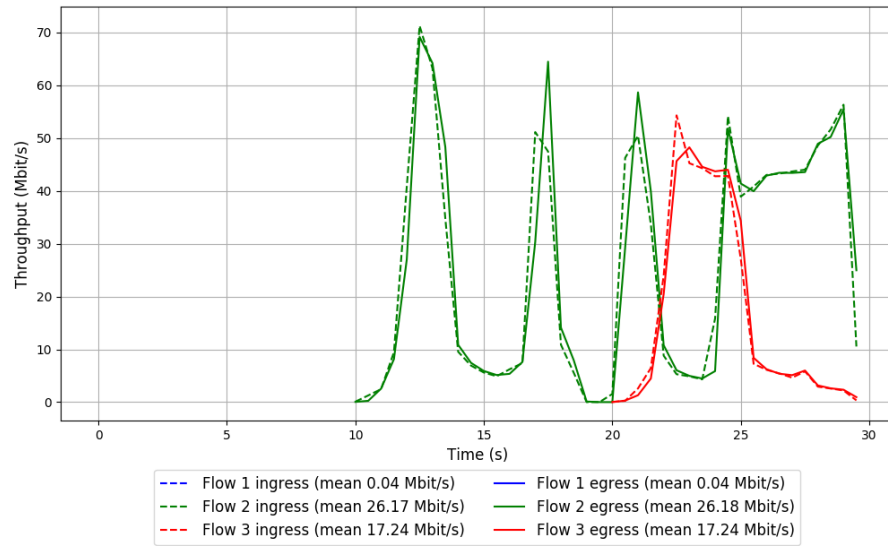
-- Flow 3:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 137.641 ms

Loss rate: 0.00%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-01 04:46:36

End at: 2017-09-01 04:47:06

# Below is generated by plot.py at 2017-09-01 07:49:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.79 Mbit/s

95th percentile per-packet one-way delay: 137.677 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 137.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 136.695 ms

Loss rate: 0.00%

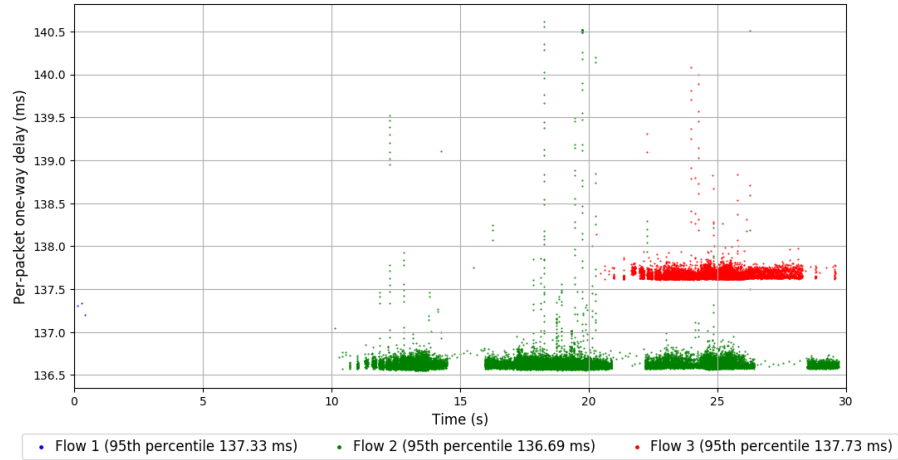
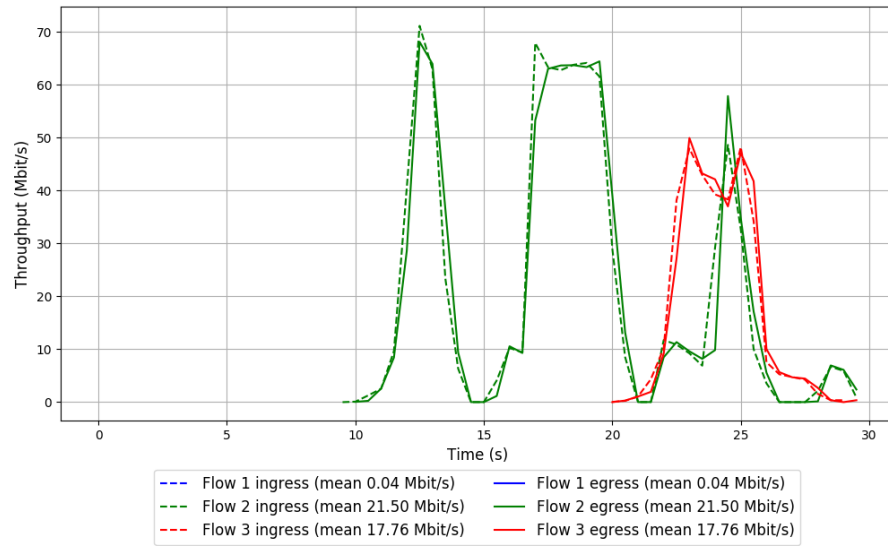
-- Flow 3:

Average throughput: 17.76 Mbit/s

95th percentile per-packet one-way delay: 137.731 ms

Loss rate: 0.00%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-01 05:00:39

End at: 2017-09-01 05:01:09

# Below is generated by plot.py at 2017-09-01 07:49:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 136.452 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 136.818 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 136.309 ms

Loss rate: 0.07%

-- Flow 3:

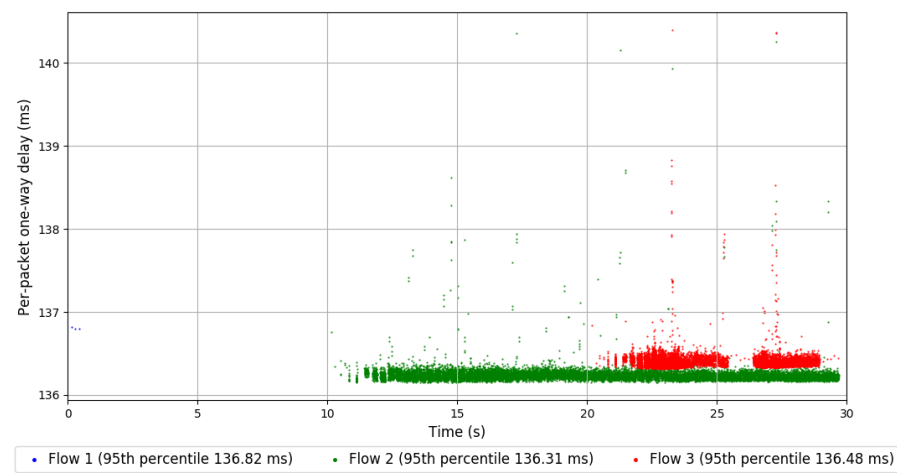
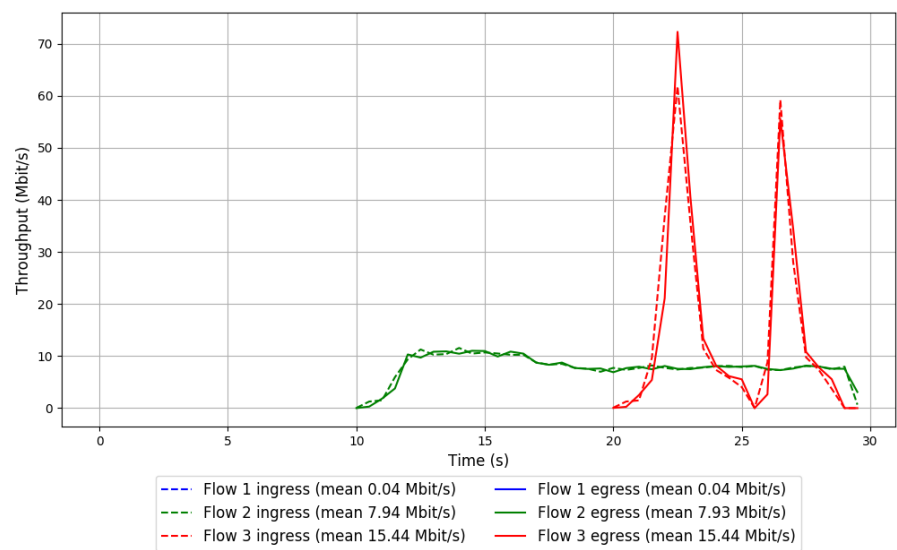
Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 136.476 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-01 05:14:23

End at: 2017-09-01 05:14:53

# Below is generated by plot.py at 2017-09-01 07:49:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.92 Mbit/s

95th percentile per-packet one-way delay: 137.596 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 136.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.77 Mbit/s

95th percentile per-packet one-way delay: 136.578 ms

Loss rate: 0.00%

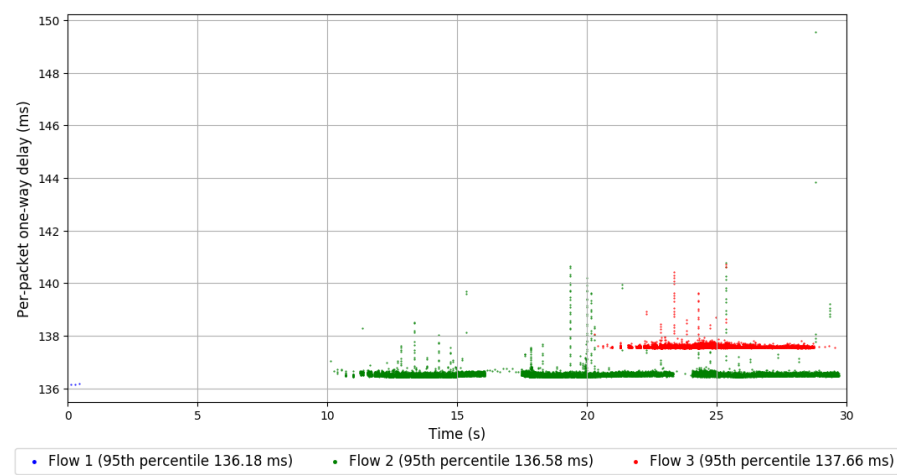
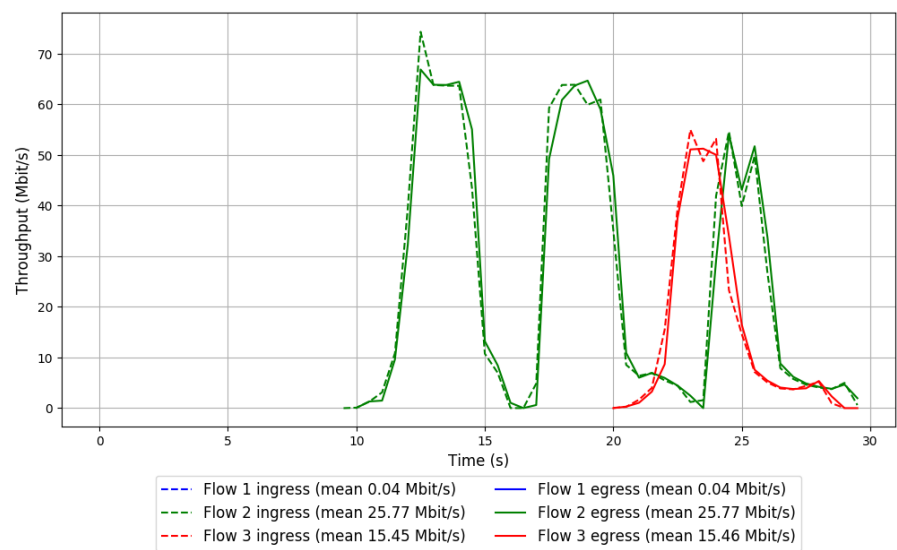
-- Flow 3:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 137.663 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-01 05:28:07

End at: 2017-09-01 05:28:37

# Below is generated by plot.py at 2017-09-01 07:49:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 136.257 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 137.036 ms

Loss rate: 0.00%

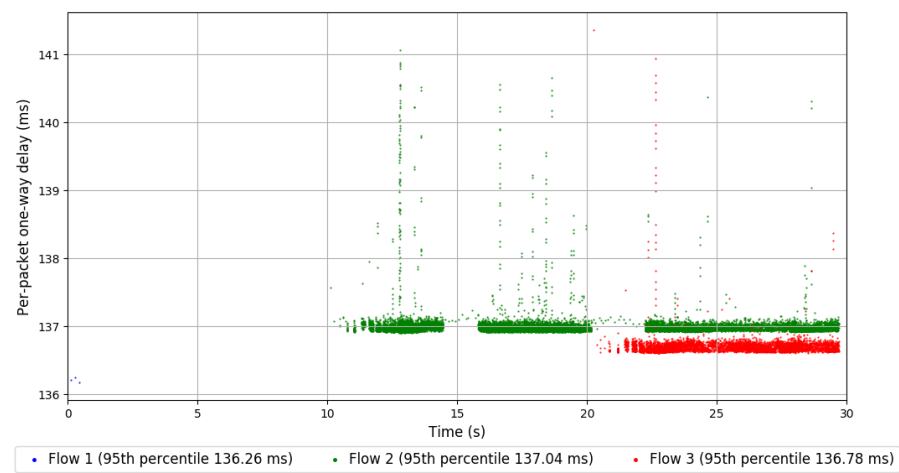
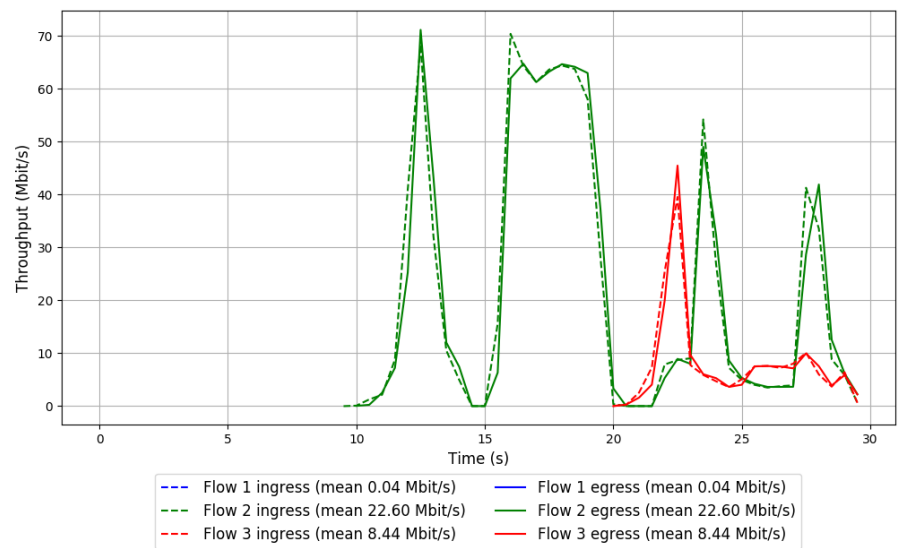
-- Flow 3:

Average throughput: 8.44 Mbit/s

95th percentile per-packet one-way delay: 136.777 ms

Loss rate: 0.06%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-01 05:42:14

End at: 2017-09-01 05:42:44

# Below is generated by plot.py at 2017-09-01 07:49:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 136.991 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 136.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 136.870 ms

Loss rate: 0.00%

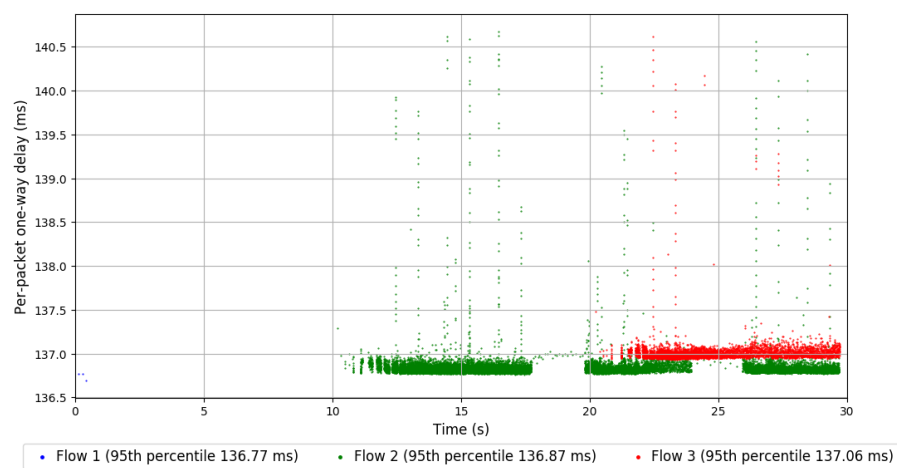
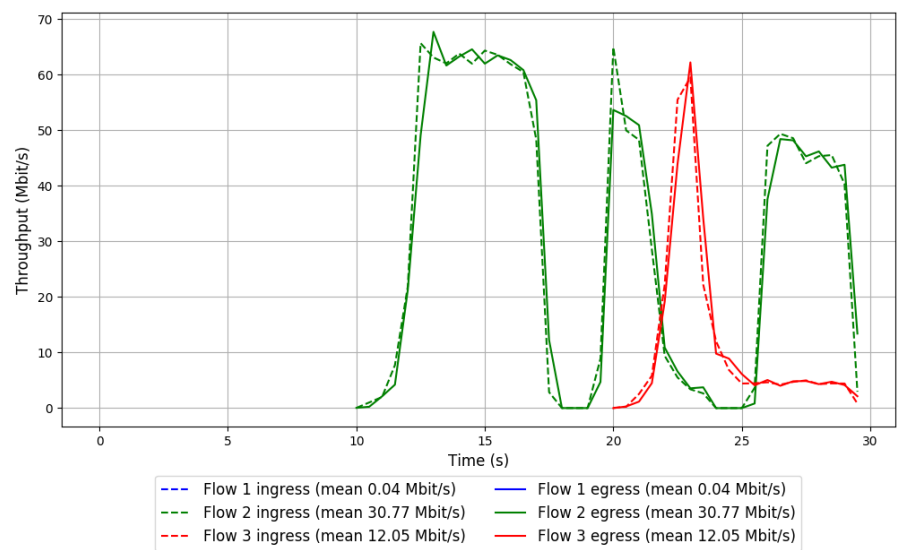
-- Flow 3:

Average throughput: 12.05 Mbit/s

95th percentile per-packet one-way delay: 137.063 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-01 05:56:21

End at: 2017-09-01 05:56:51

# Below is generated by plot.py at 2017-09-01 07:49:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 137.000 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 137.362 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.55 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 0.00%

-- Flow 3:

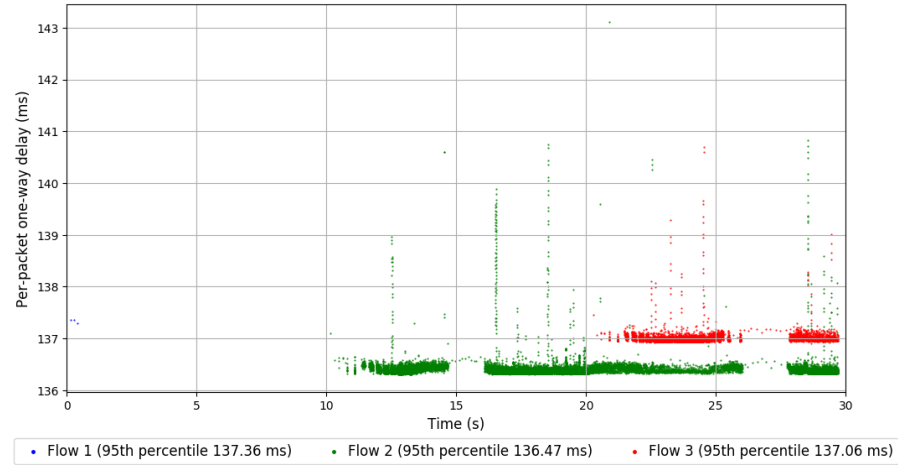
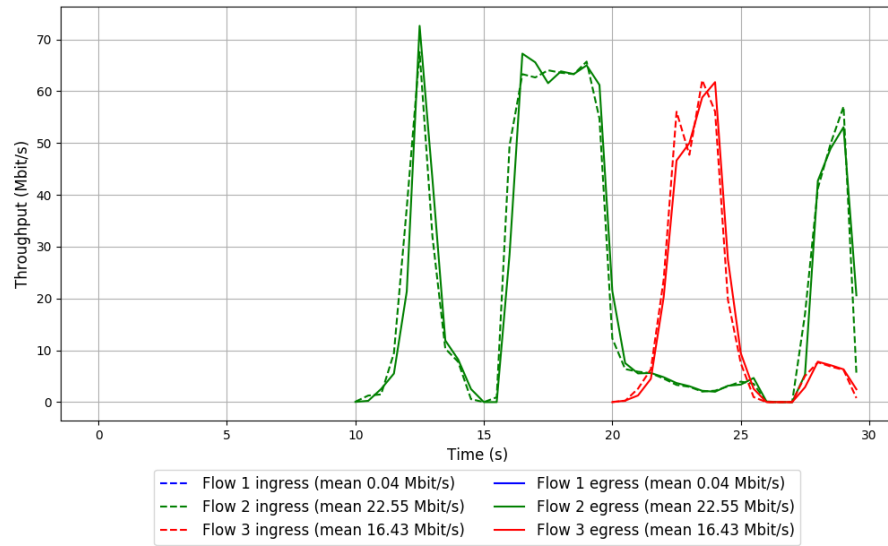
Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 137.059 ms

Loss rate: 0.00%



# Run 9: Report of QUIC Cubic — Data Link

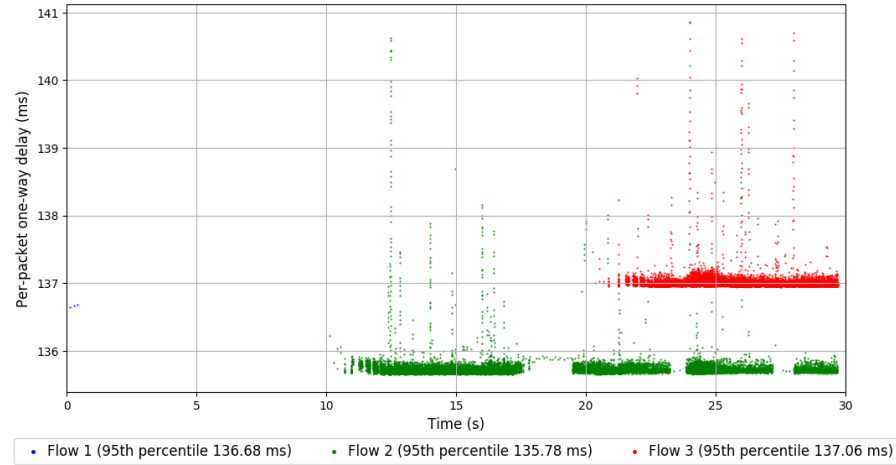
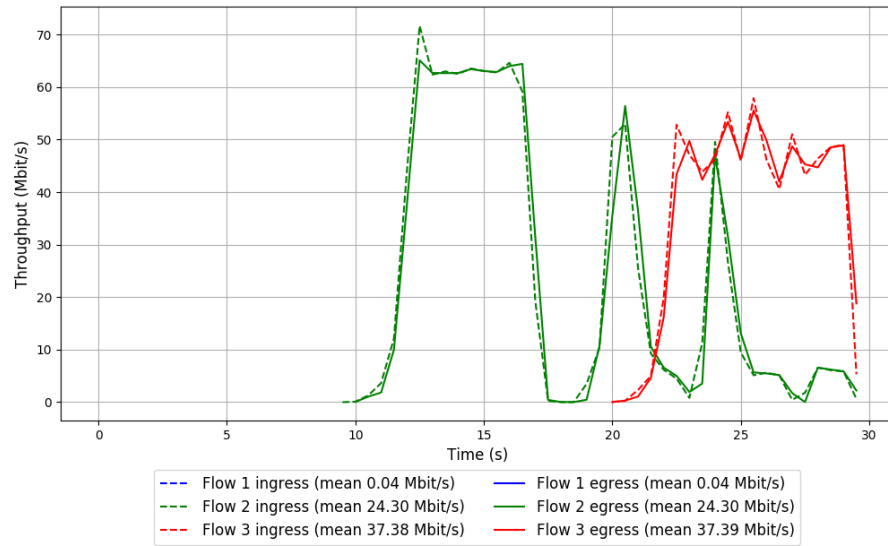


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-01 06:10:22
End at: 2017-09-01 06:10:52

# Below is generated by plot.py at 2017-09-01 07:50:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 137.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 135.785 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 137.058 ms
Loss rate: 0.00%
```

# Run 10: Report of QUIC Cubic — Data Link

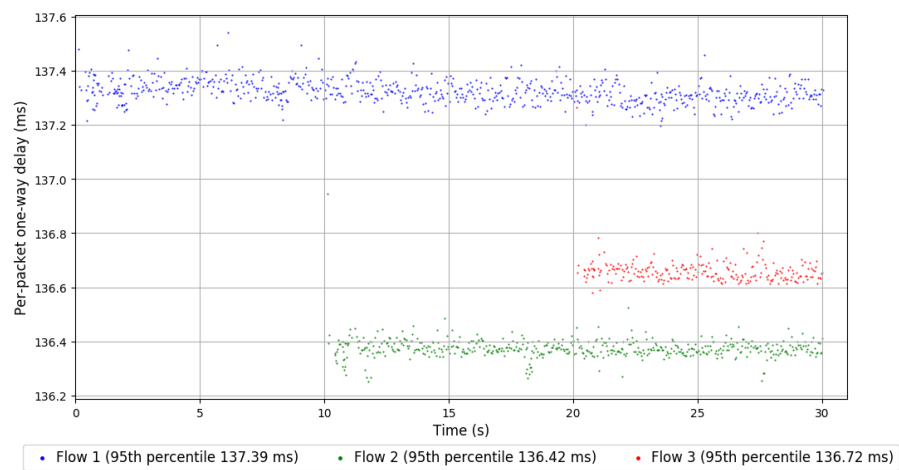
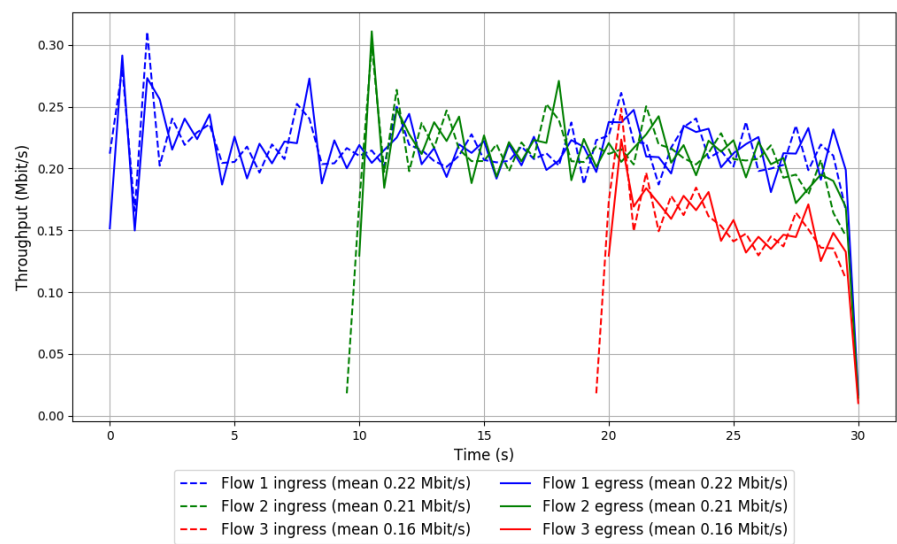


```
Run 1: Statistics of SReAM

Start at: 2017-09-01 03:56:04
End at: 2017-09-01 03:56:34

# Below is generated by plot.py at 2017-09-01 07:50:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.377 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.393 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.718 ms
Loss rate: 0.65%
```

Run 1: Report of SReAM — Data Link

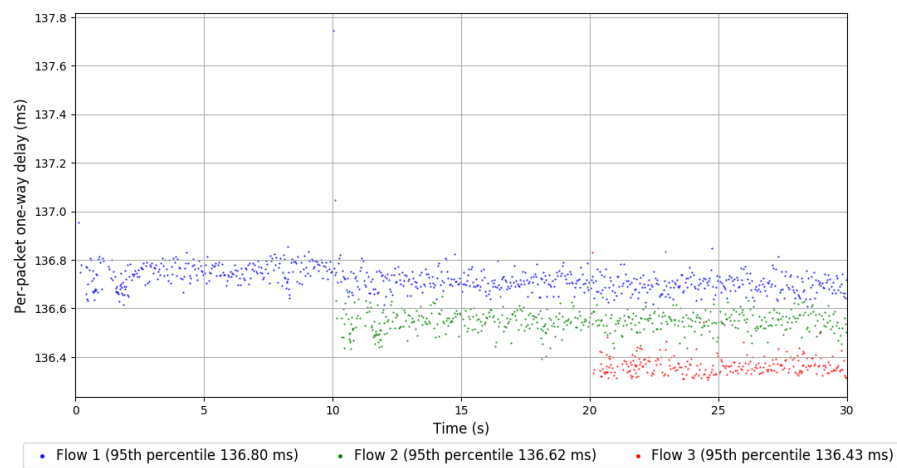
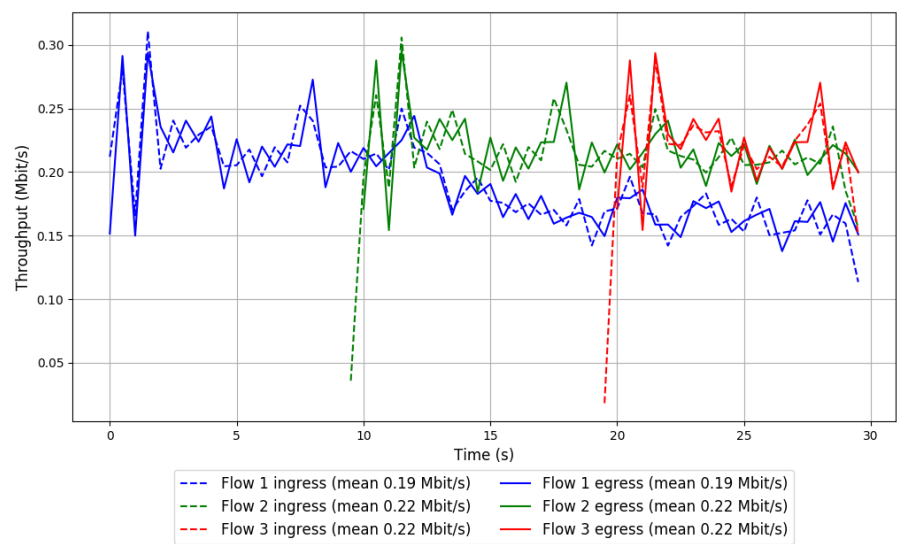


```
Run 2: Statistics of SCReAM

Start at: 2017-09-01 04:10:18
End at: 2017-09-01 04:10:48

# Below is generated by plot.py at 2017-09-01 07:50:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.783 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.799 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.429 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



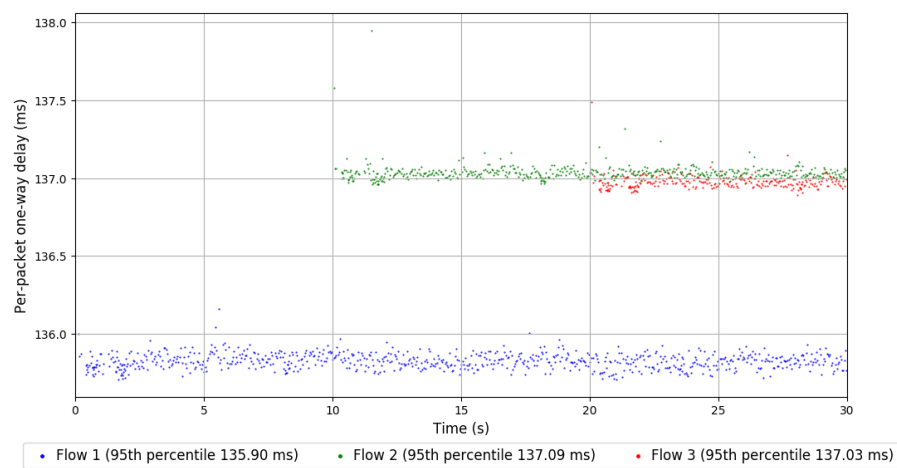
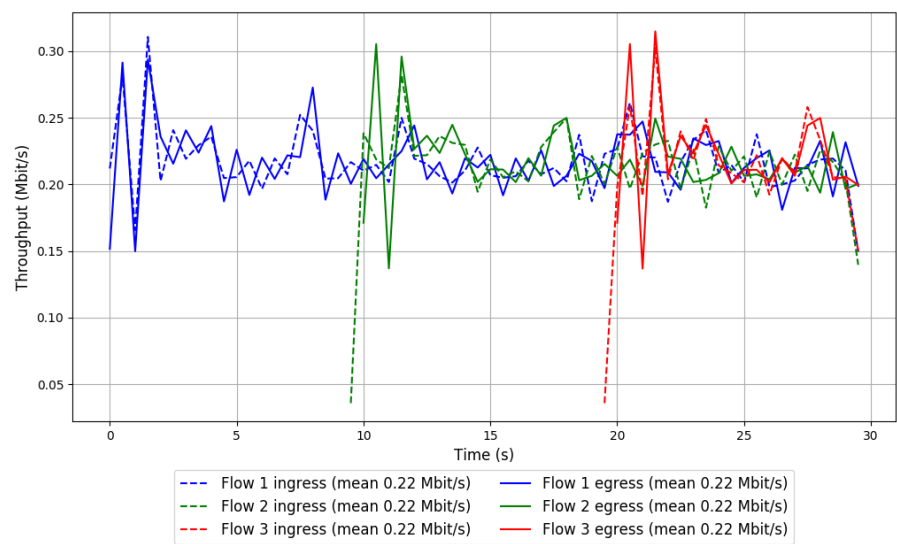
```
Run 3: Statistics of SReAM

Start at: 2017-09-01 04:24:07
End at: 2017-09-01 04:24:37

# Below is generated by plot.py at 2017-09-01 07:50:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.904 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.086 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.034 ms
Loss rate: 0.00%
```



Run 3: Report of SReAM — Data Link

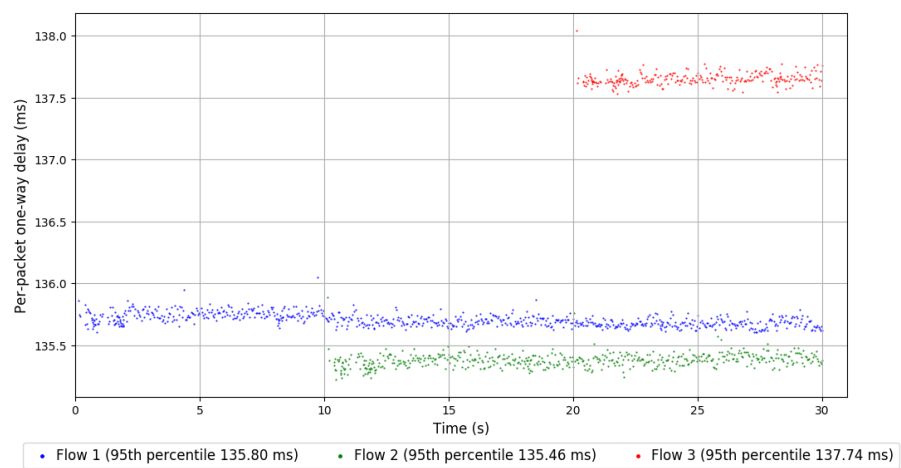
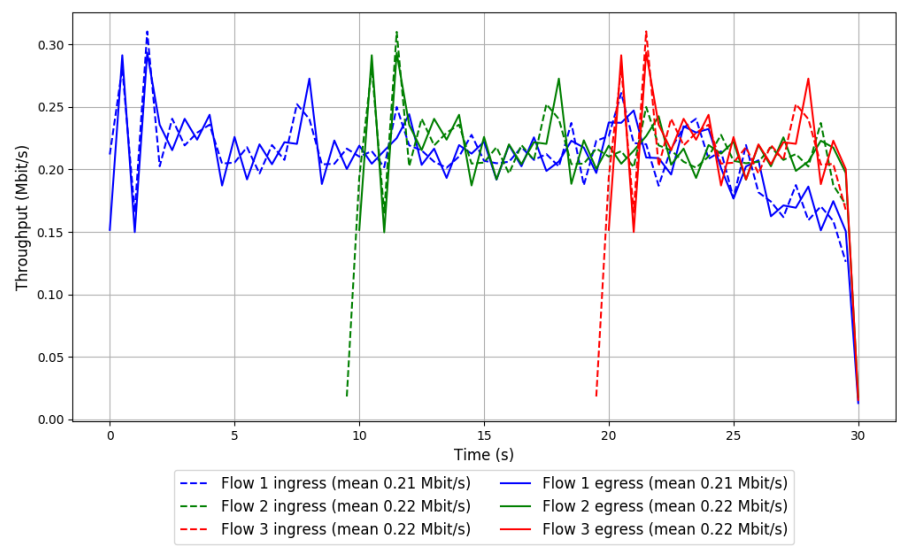


```
Run 4: Statistics of SCReAM

Start at: 2017-09-01 04:38:07
End at: 2017-09-01 04:38:37

# Below is generated by plot.py at 2017-09-01 07:50:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.671 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 135.800 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.459 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.739 ms
Loss rate: 0.00%
```

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-09-01 04:52:17

End at: 2017-09-01 04:52:47

# Below is generated by plot.py at 2017-09-01 07:50:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.396 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.415 ms

Loss rate: 0.00%

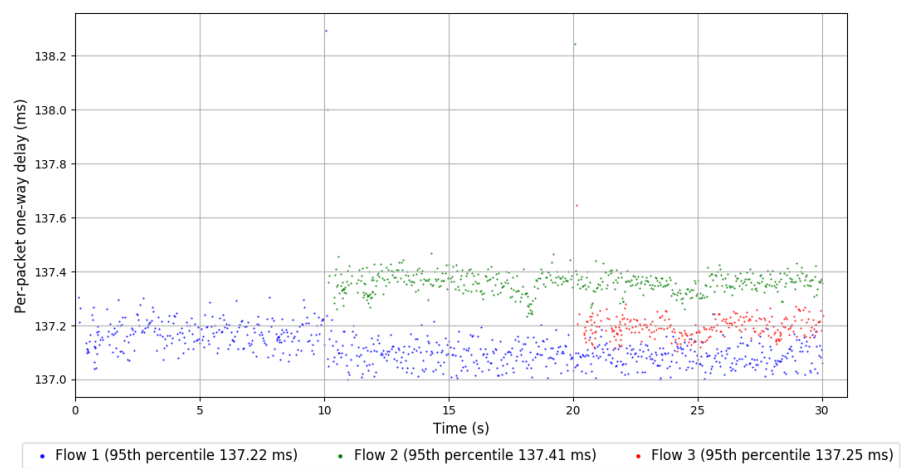
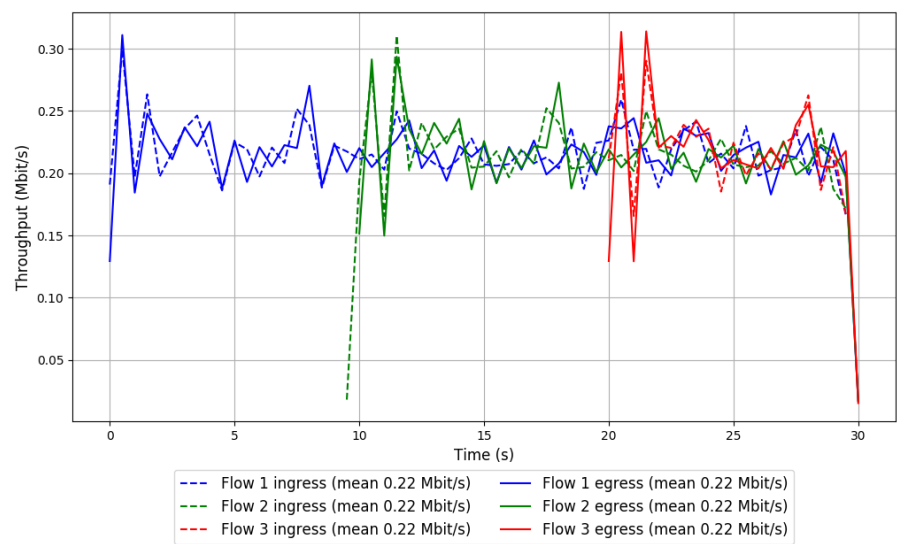
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.254 ms

Loss rate: 0.00%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-09-01 05:06:16

End at: 2017-09-01 05:06:46

# Below is generated by plot.py at 2017-09-01 07:50:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.628 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.479 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.760 ms

Loss rate: 0.00%

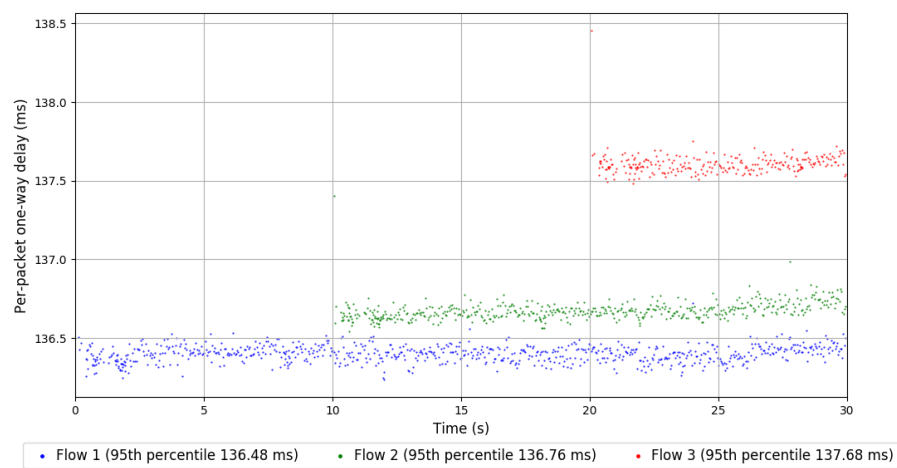
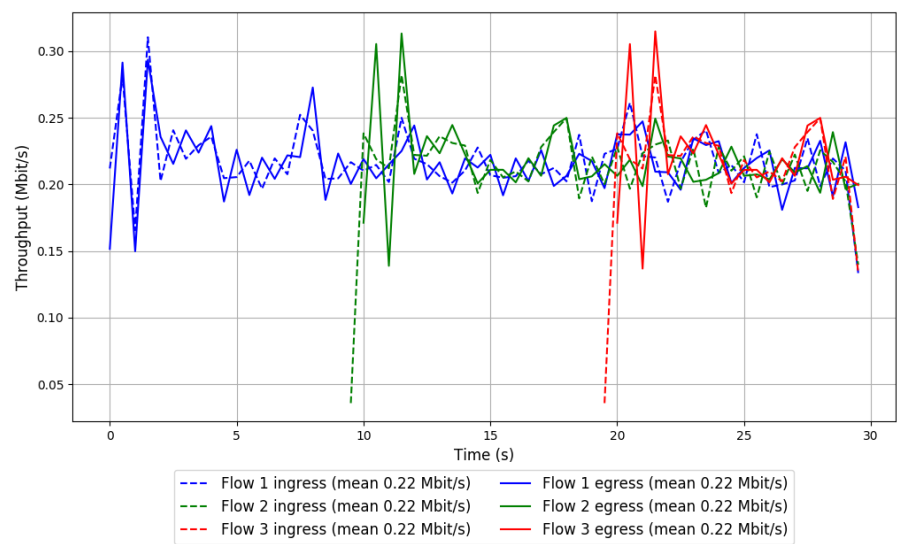
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.680 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



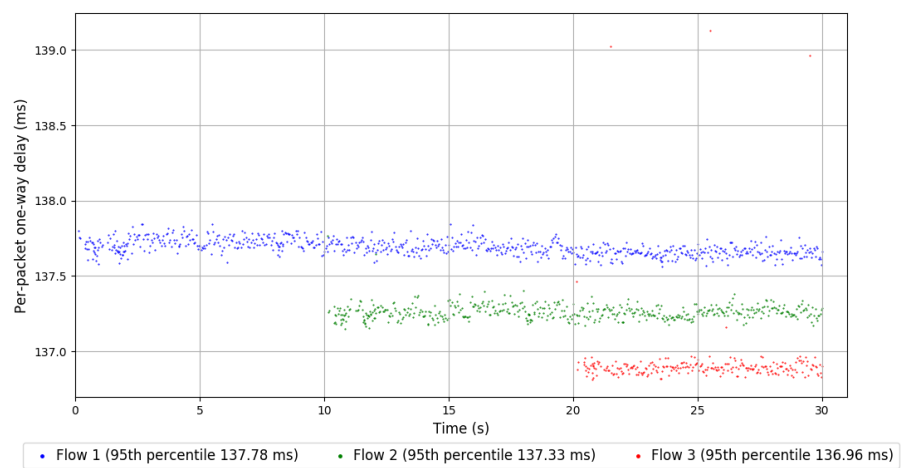
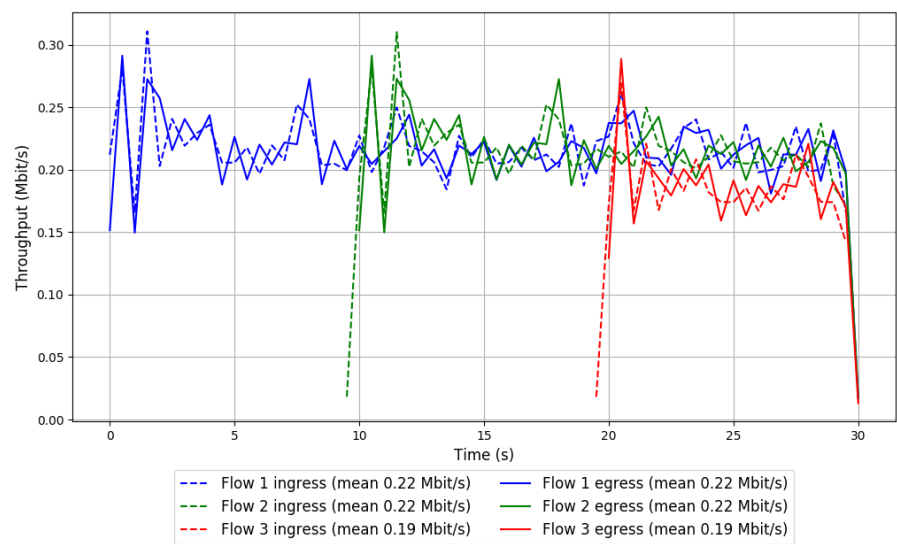
```
Run 7: Statistics of SReAM

Start at: 2017-09-01 05:19:59
End at: 2017-09-01 05:20:29

# Below is generated by plot.py at 2017-09-01 07:50:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.780 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.333 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.962 ms
Loss rate: 0.00%
```



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-09-01 05:33:44

End at: 2017-09-01 05:34:14

# Below is generated by plot.py at 2017-09-01 07:50:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.928 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.947 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.304 ms

Loss rate: 0.00%

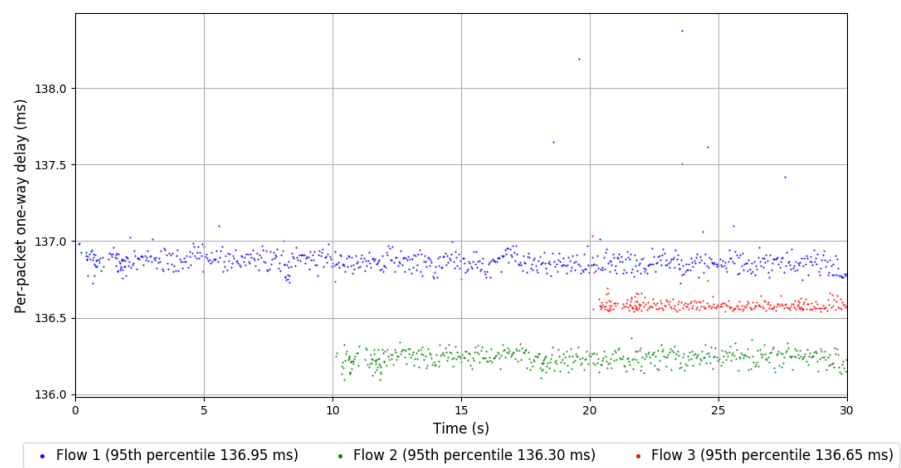
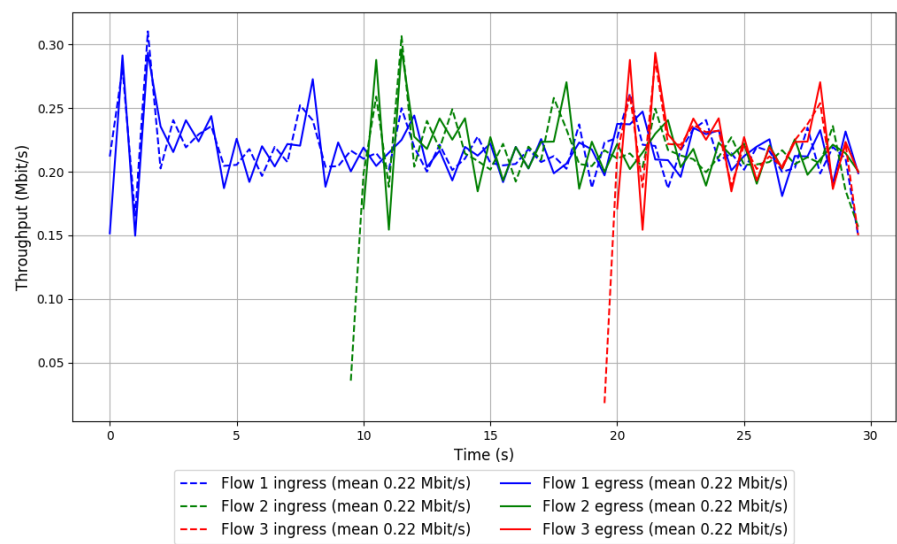
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-09-01 05:47:52

End at: 2017-09-01 05:48:22

# Below is generated by plot.py at 2017-09-01 07:50:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.930 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.931 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.724 ms

Loss rate: 0.00%

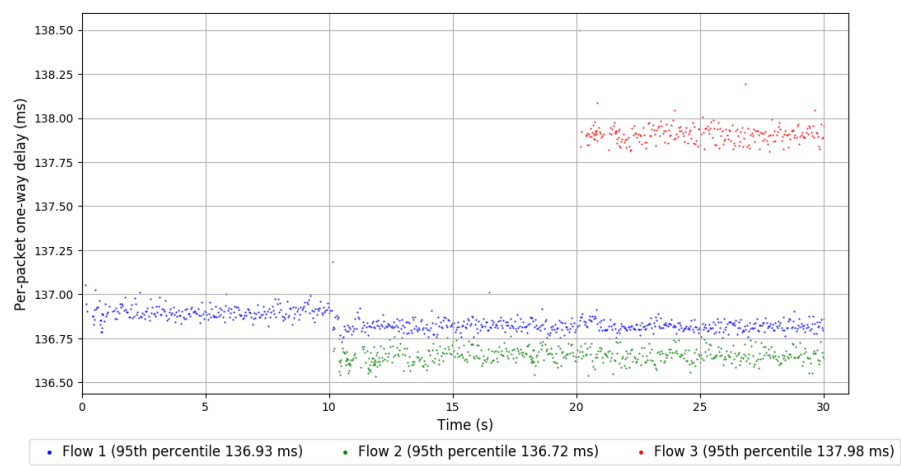
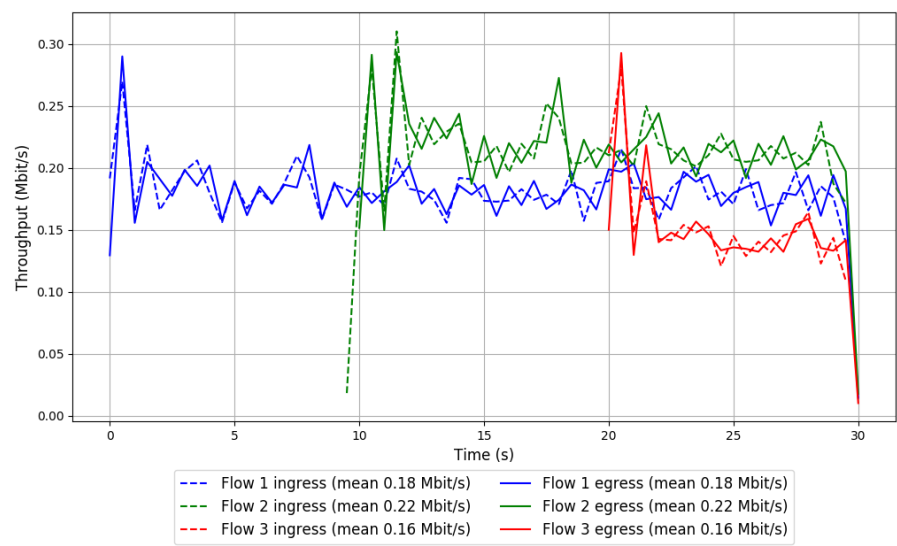
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 137.976 ms

Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

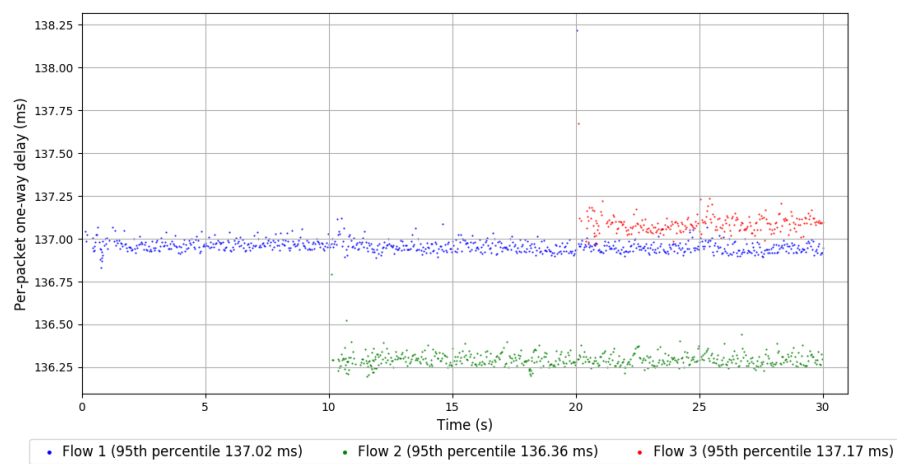
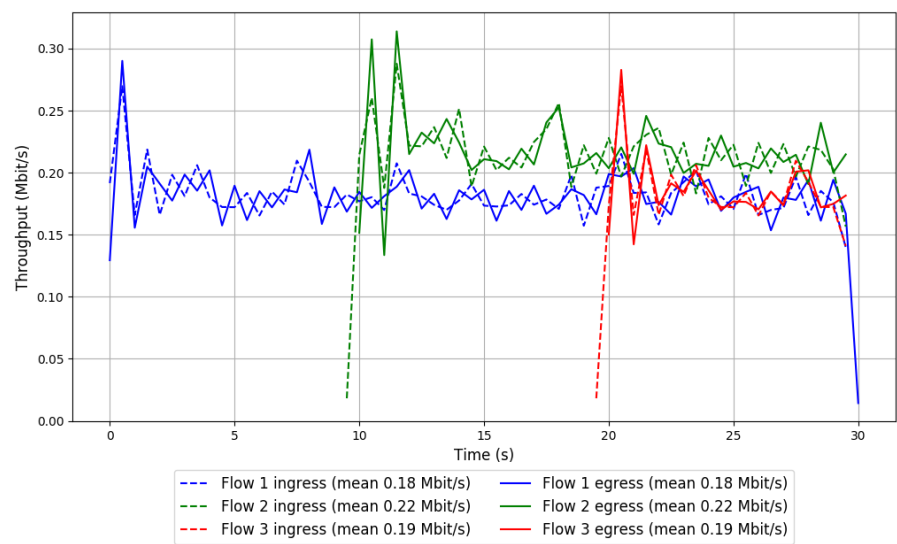


```
Run 10: Statistics of SReAM

Start at: 2017-09-01 06:02:01
End at: 2017-09-01 06:02:31

# Below is generated by plot.py at 2017-09-01 07:50:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 137.021 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.358 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 137.166 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link



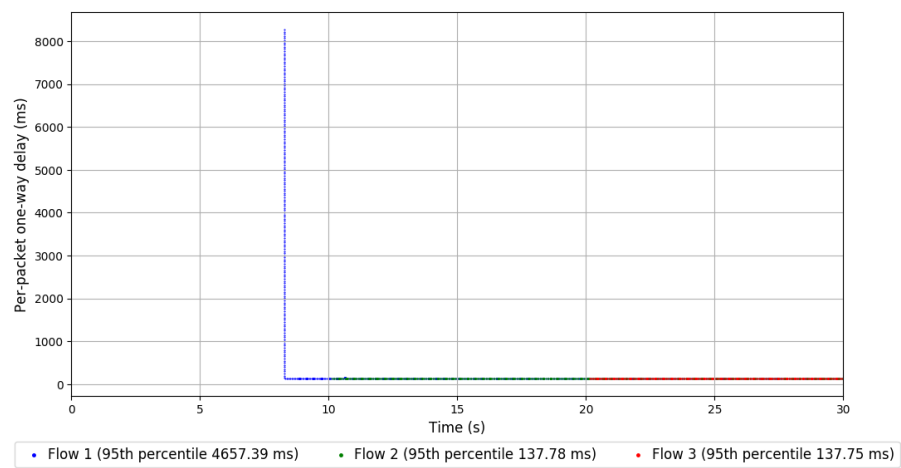
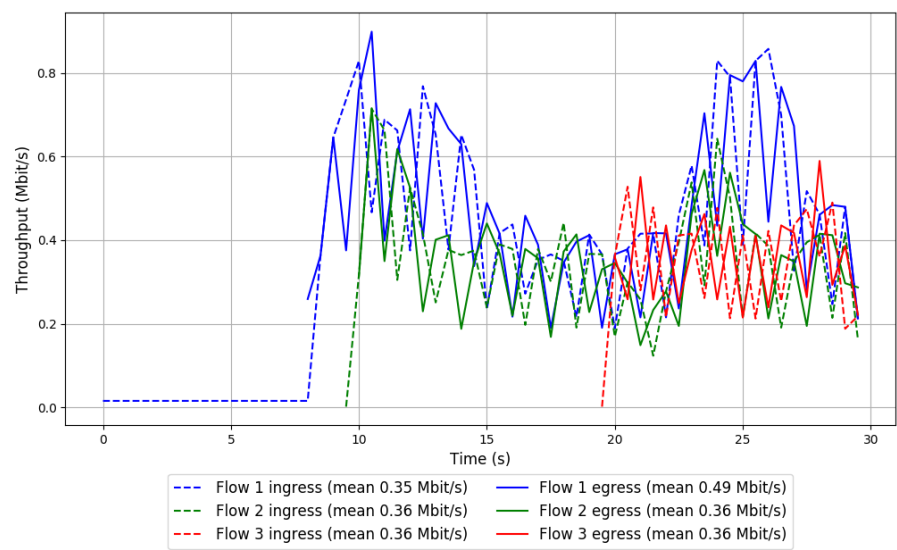
Run 1: Statistics of Sprout

Start at: 2017-09-01 04:00:35

End at: 2017-09-01 04:01:05



Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-01 04:14:43

End at: 2017-09-01 04:15:13

# Below is generated by plot.py at 2017-09-01 07:50:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 137.793 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.795 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.782 ms

Loss rate: 0.00%

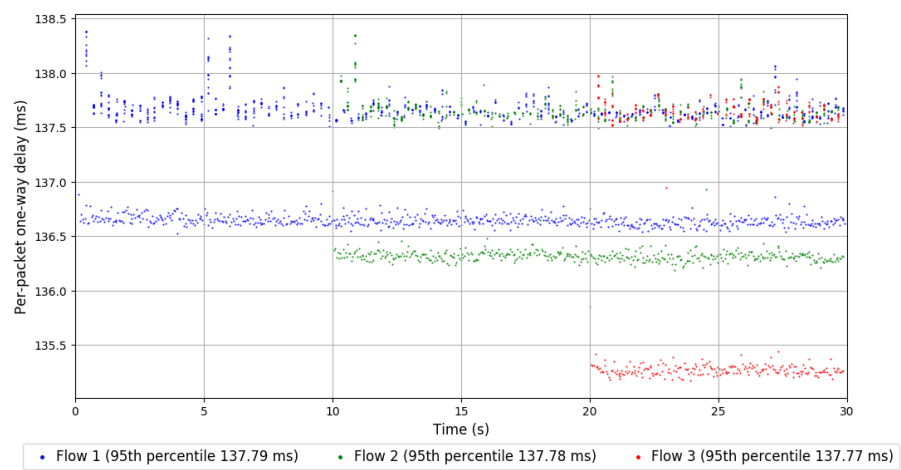
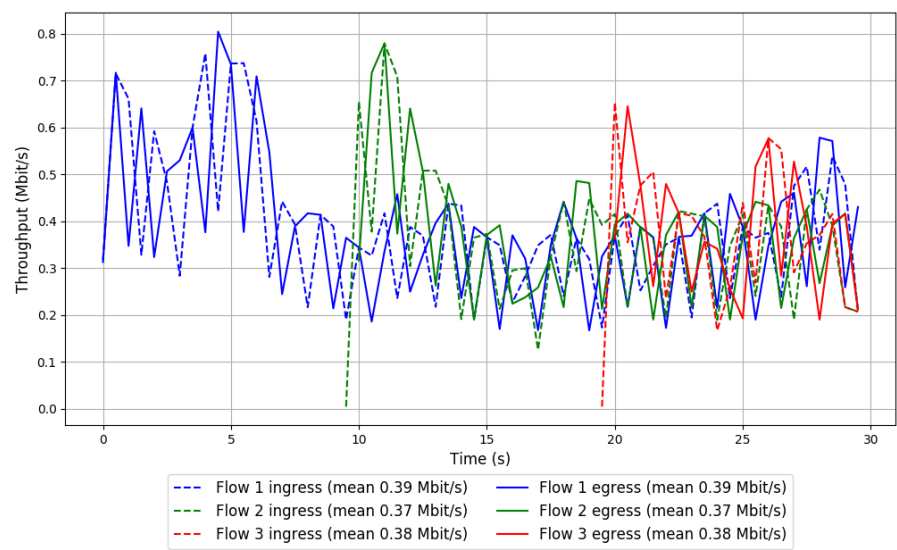
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.774 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-01 04:28:29

End at: 2017-09-01 04:28:59

# Below is generated by plot.py at 2017-09-01 07:50:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 137.312 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.156 ms

Loss rate: 0.00%

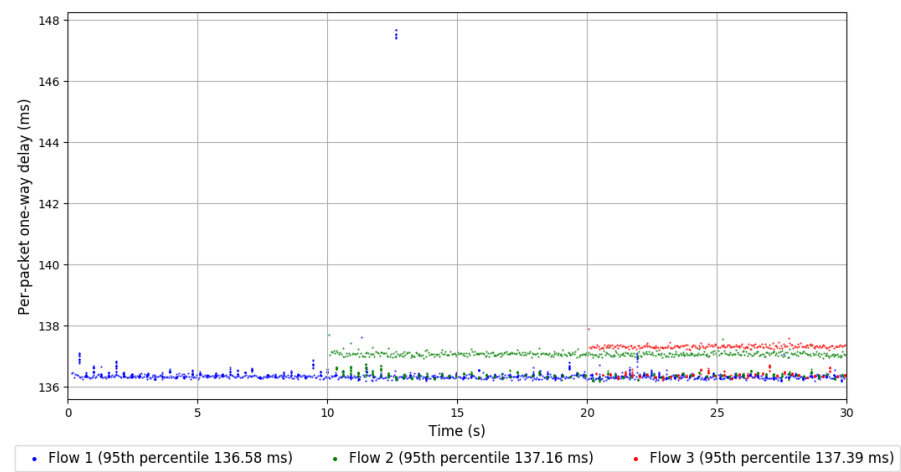
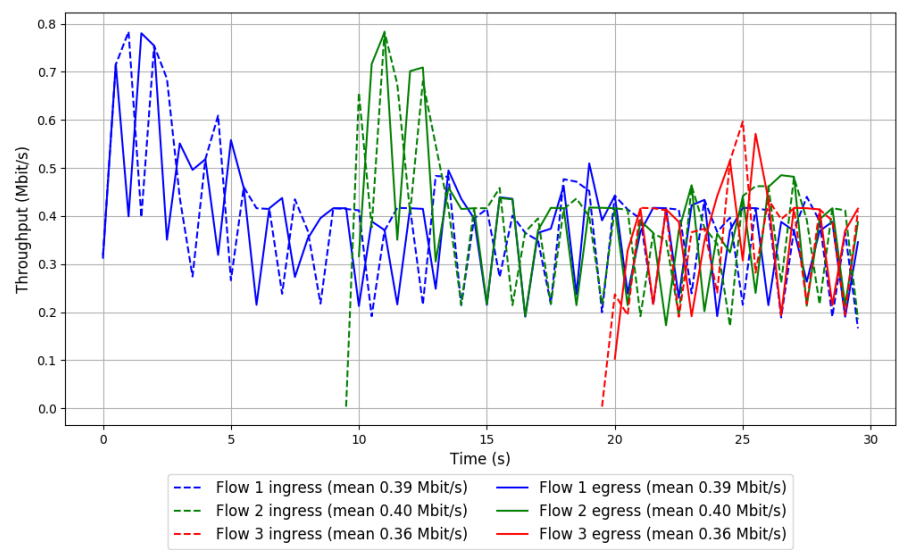
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.390 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-01 04:42:33

End at: 2017-09-01 04:43:03

# Below is generated by plot.py at 2017-09-01 07:50:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 137.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.061 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.046 ms

Loss rate: 0.00%

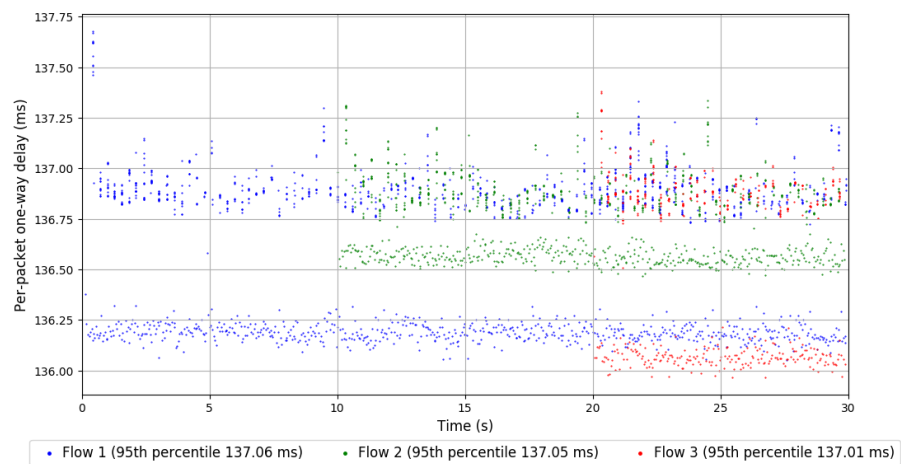
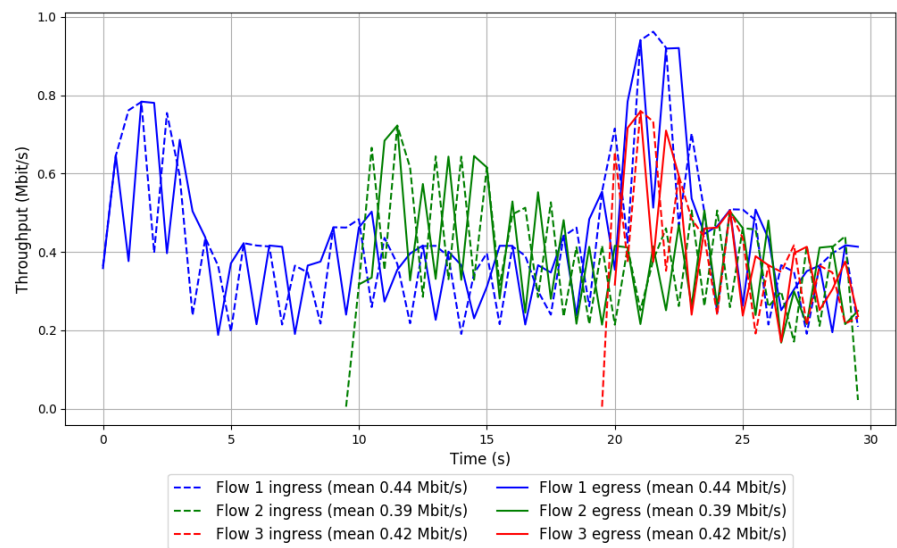
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-01 04:56:39

End at: 2017-09-01 04:57:09

# Below is generated by plot.py at 2017-09-01 07:50:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 137.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.371 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 137.308 ms

Loss rate: 0.00%

-- Flow 3:

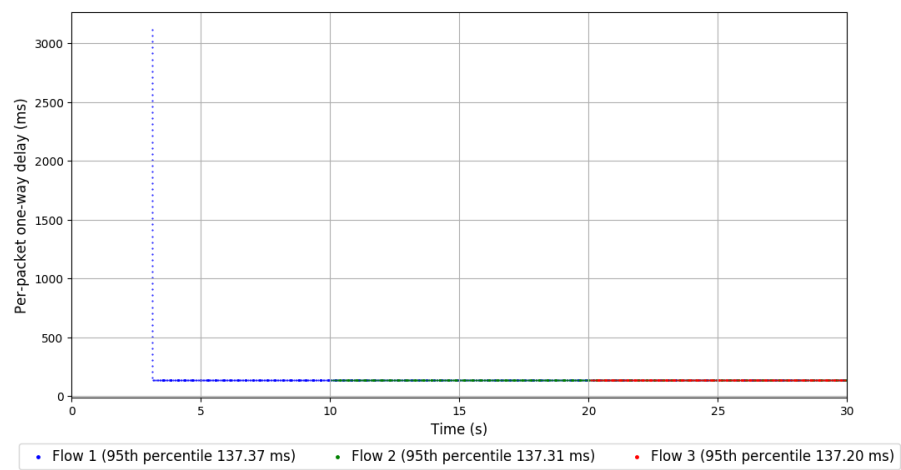
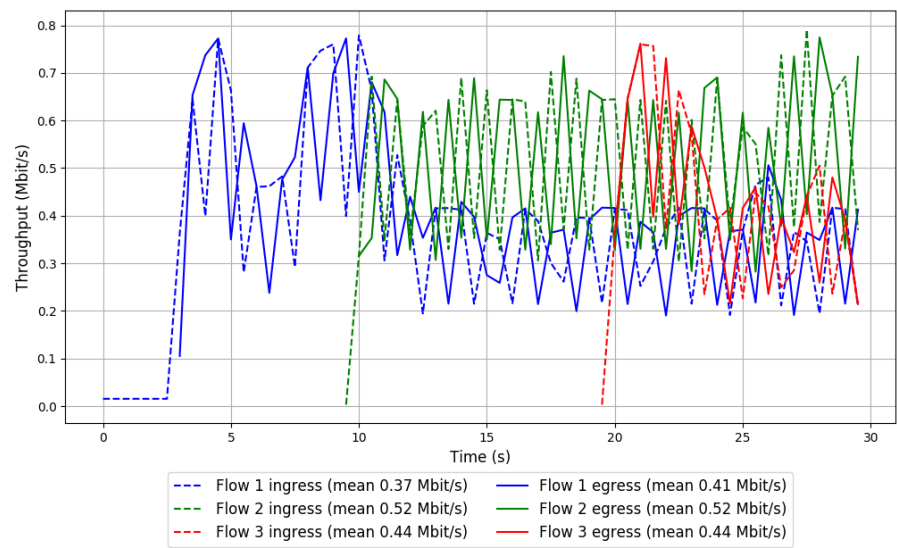
Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.196 ms

Loss rate: 0.00%



Run 5: Report of Sprout — Data Link

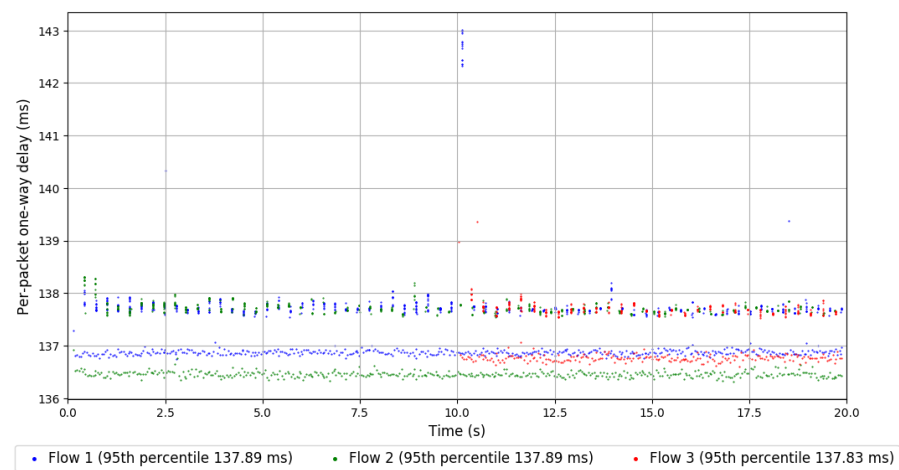
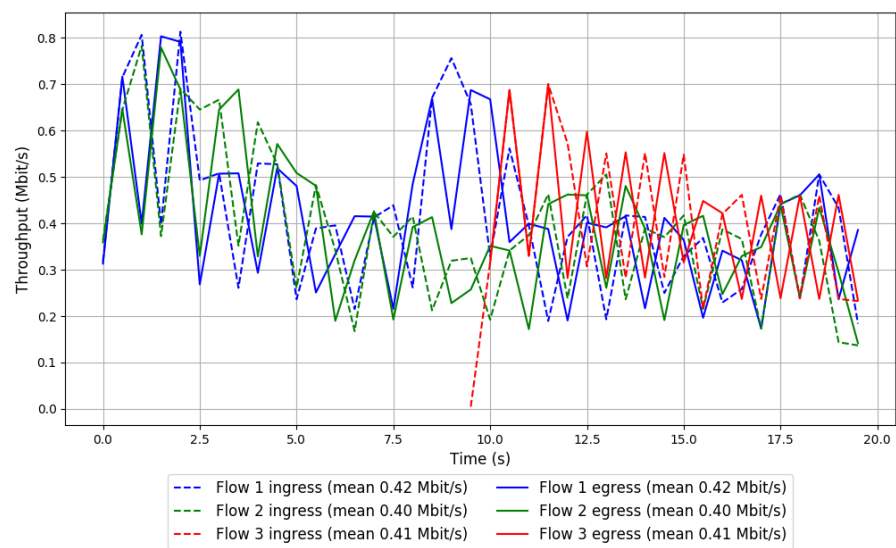


Run 6: Statistics of Sprout

Start at: 2017-09-01 05:10:38

End at: 2017-09-01 05:11:08

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-01 05:24:18

End at: 2017-09-01 05:24:48

# Below is generated by plot.py at 2017-09-01 07:50:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 137.846 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.846 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.858 ms

Loss rate: 0.00%

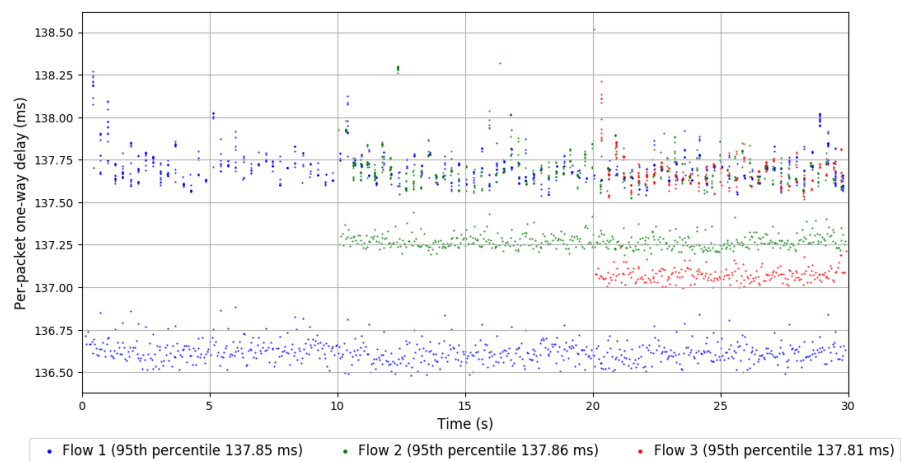
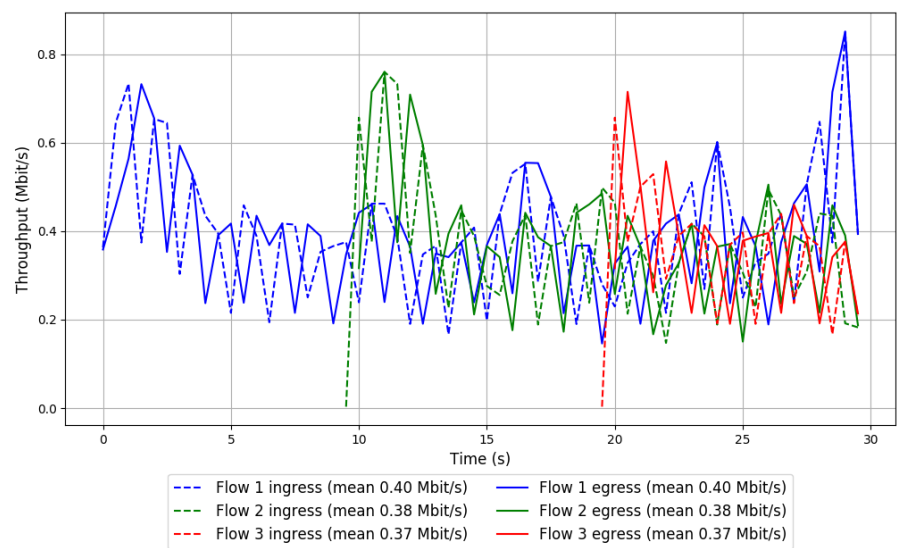
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.814 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

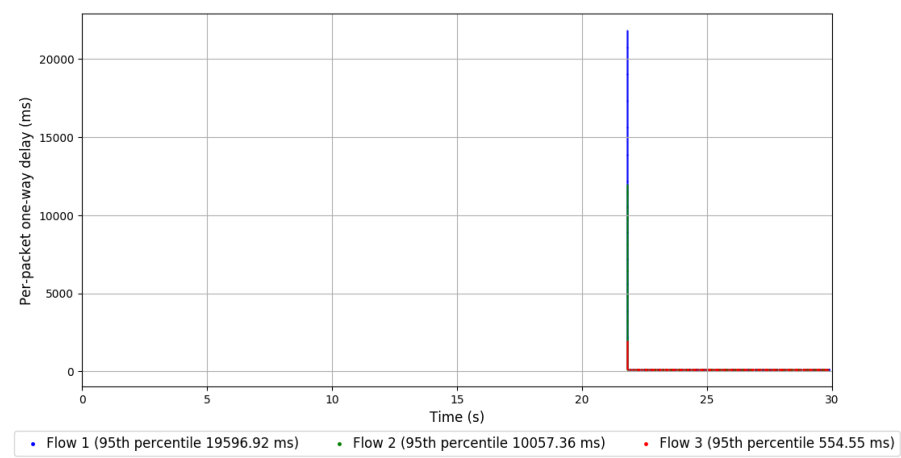
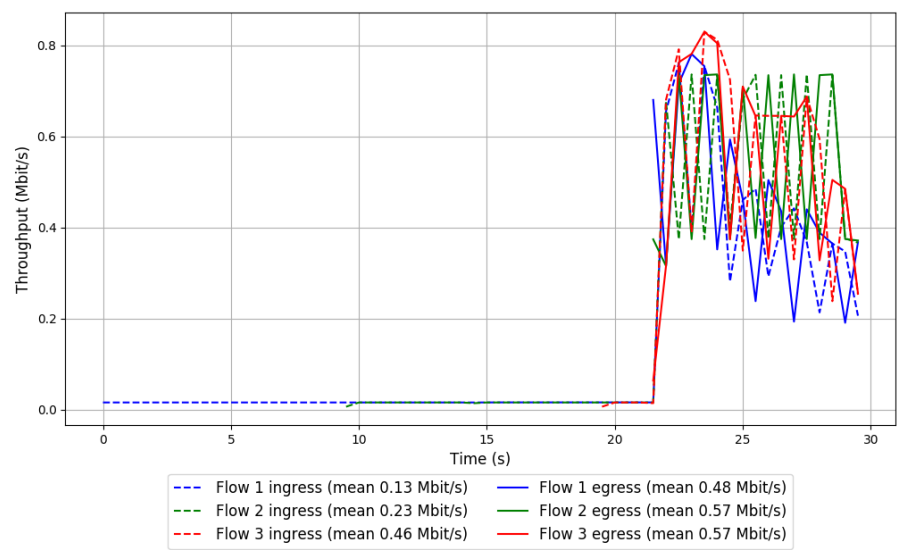


Run 8: Statistics of Sprout

Start at: 2017-09-01 05:38:09

End at: 2017-09-01 05:38:39

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-01 05:52:17

End at: 2017-09-01 05:52:47

# Below is generated by plot.py at 2017-09-01 07:50:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 137.101 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.037 ms

Loss rate: 0.00%

-- Flow 3:

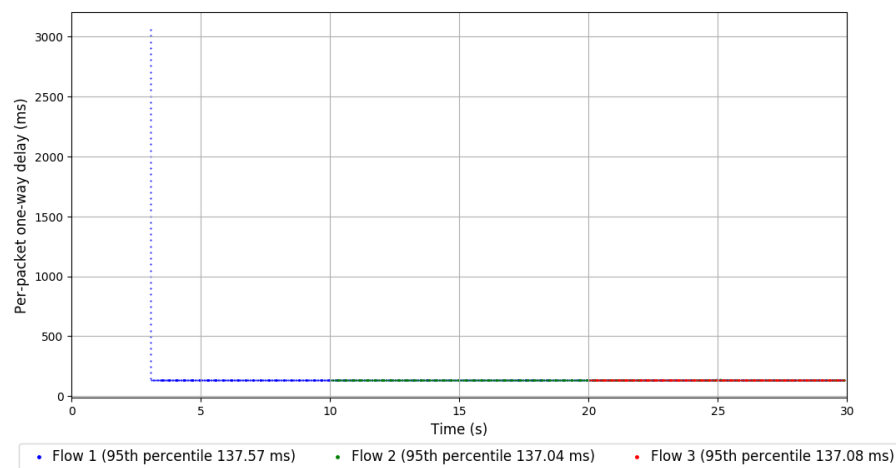
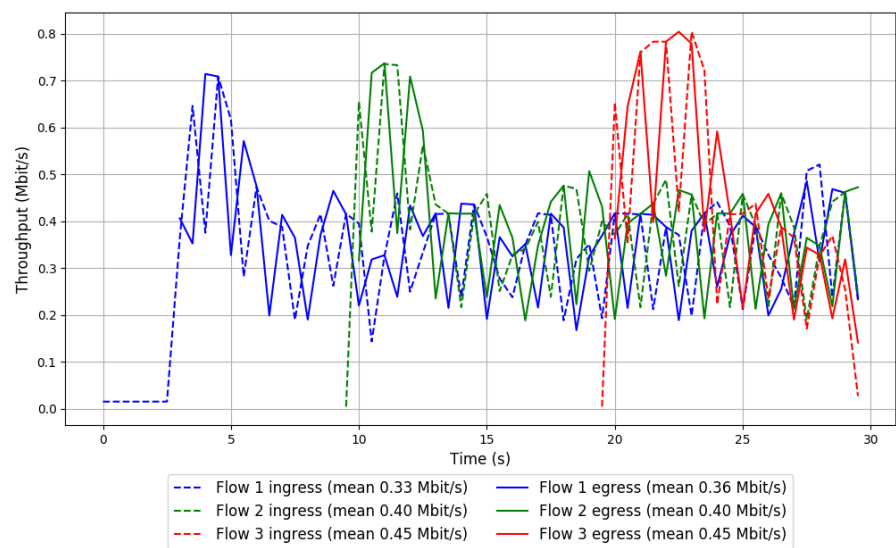
Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-01 06:06:24

End at: 2017-09-01 06:06:54

# Below is generated by plot.py at 2017-09-01 07:50:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 137.314 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.958 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.350 ms

Loss rate: 0.15%

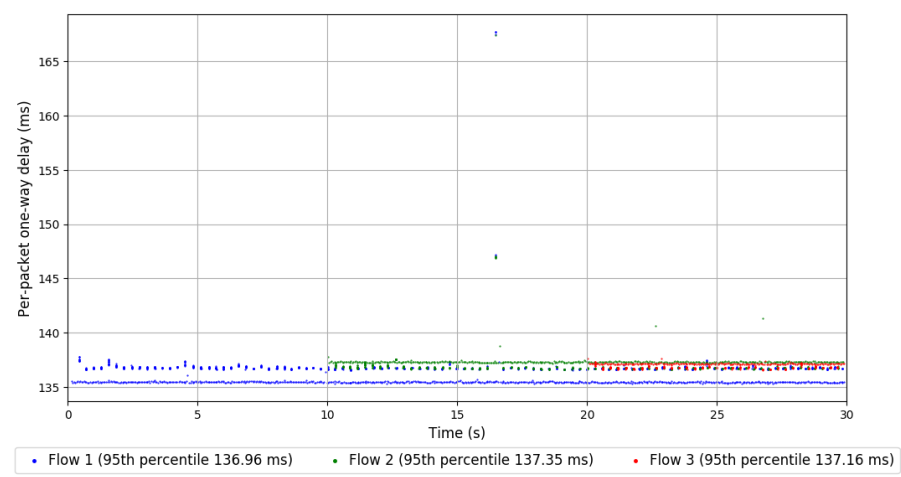
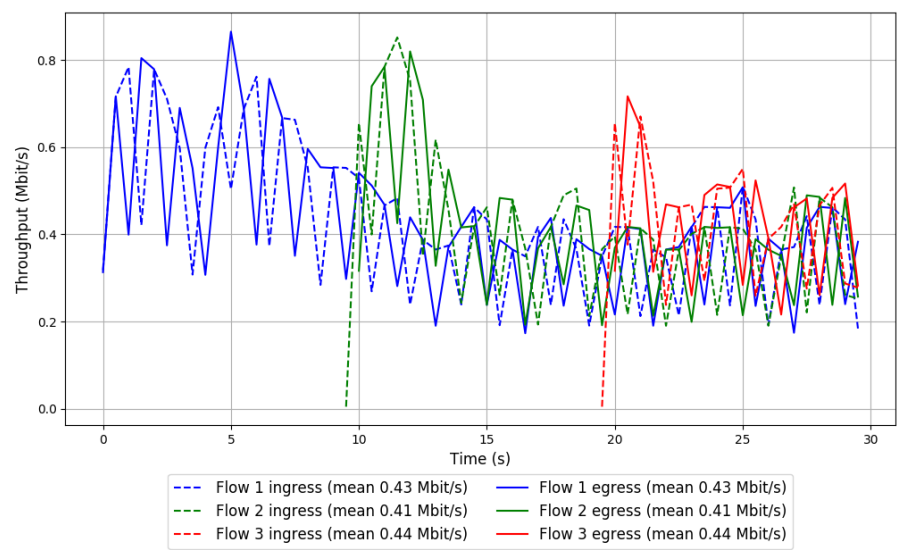
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.164 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

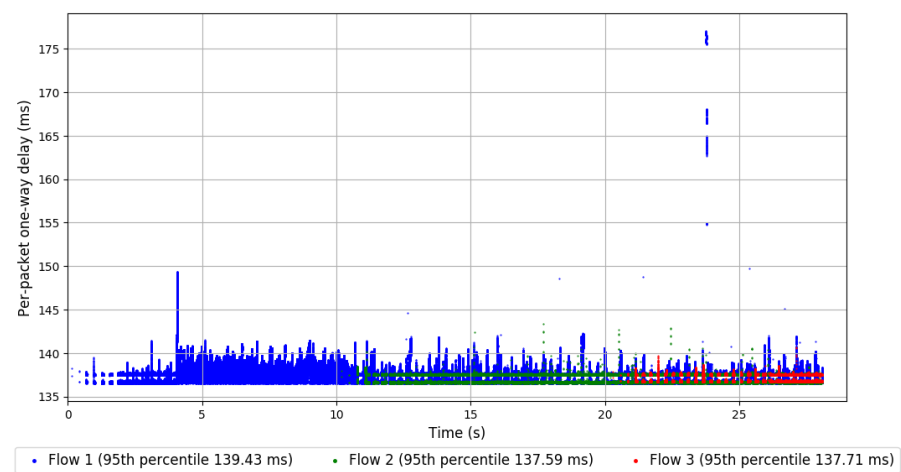
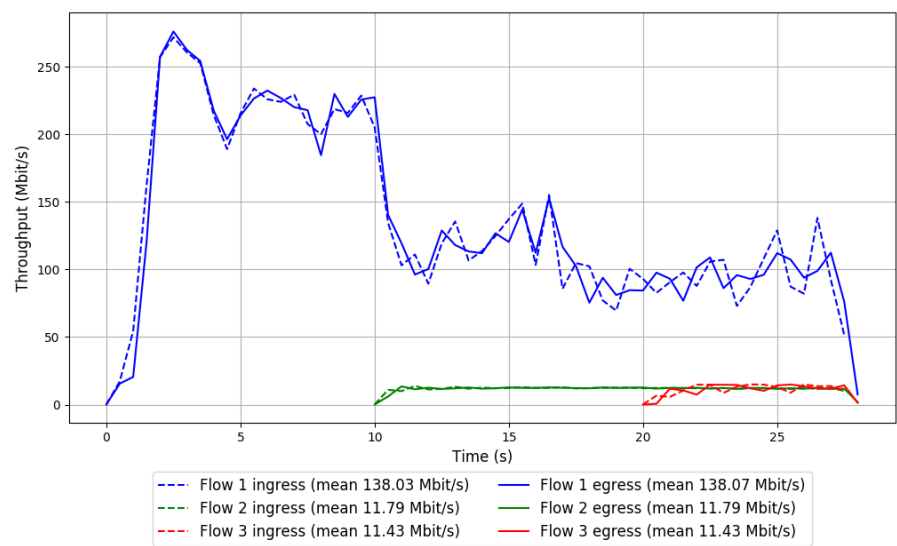


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-01 04:01:25
End at: 2017-09-01 04:01:55

# Below is generated by plot.py at 2017-09-01 07:51:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.81 Mbit/s
95th percentile per-packet one-way delay: 139.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.07 Mbit/s
95th percentile per-packet one-way delay: 139.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 137.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 137.711 ms
Loss rate: 0.00%
```

Run 1: Report of TaoVA-100x — Data Link

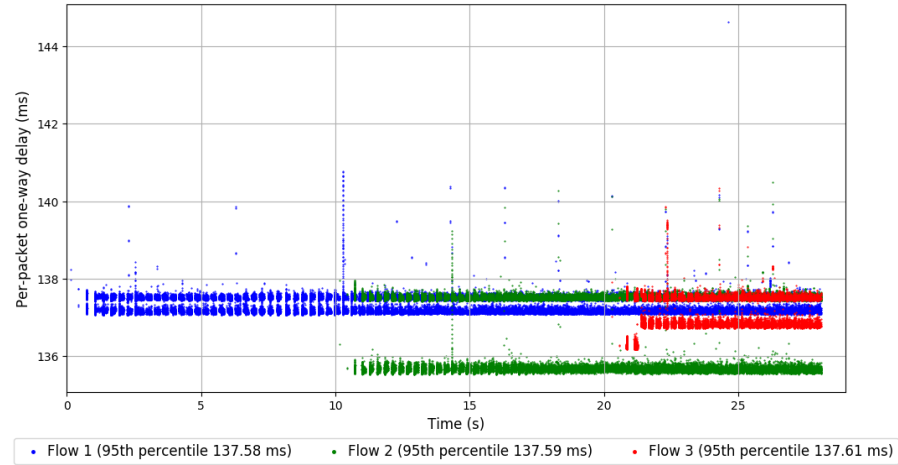
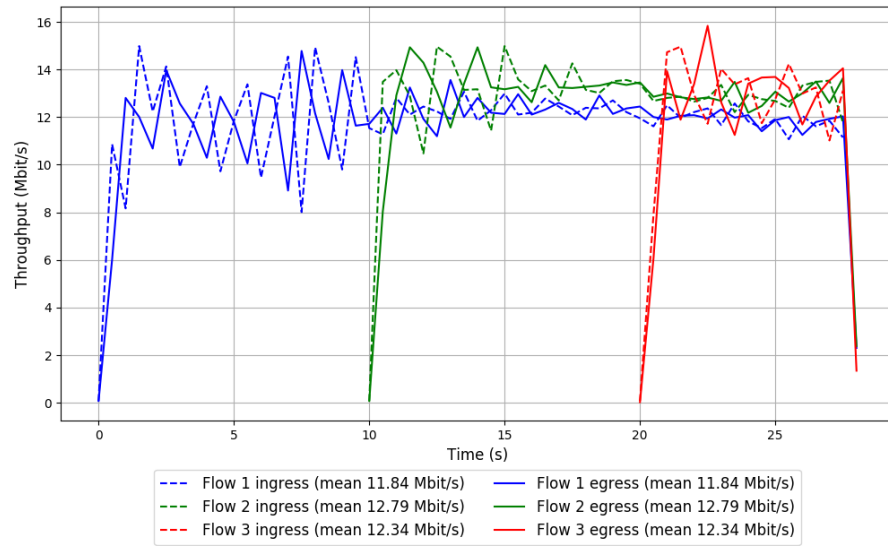


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-01 04:15:32
End at: 2017-09-01 04:16:02

# Below is generated by plot.py at 2017-09-01 07:51:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 137.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 137.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 137.593 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 137.613 ms
Loss rate: 0.00%
```

## Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-01 04:29:18

End at: 2017-09-01 04:29:48

# Below is generated by plot.py at 2017-09-01 07:51:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 159.45 Mbit/s

95th percentile per-packet one-way delay: 138.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.07 Mbit/s

95th percentile per-packet one-way delay: 138.202 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 137.820 ms

Loss rate: 0.00%

-- Flow 3:

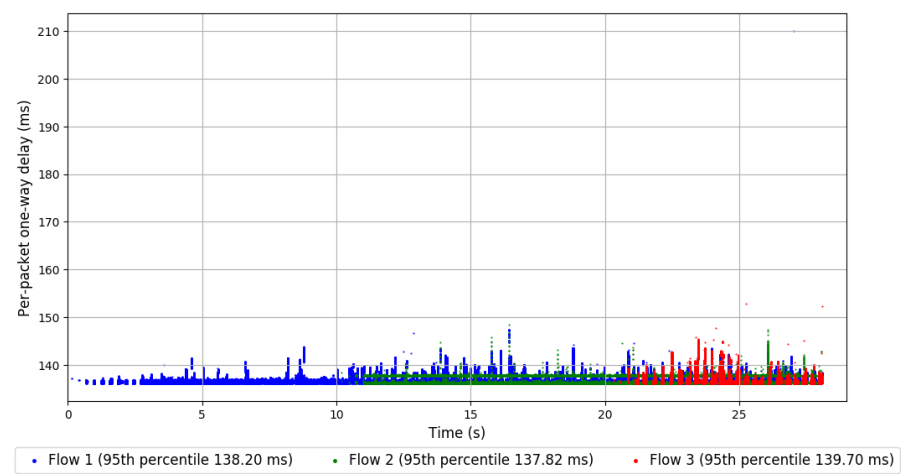
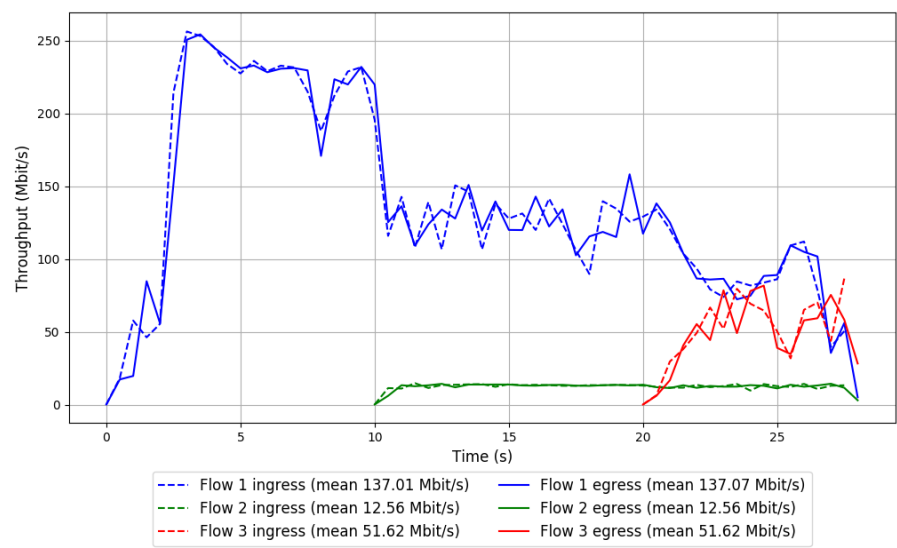
Average throughput: 51.62 Mbit/s

95th percentile per-packet one-way delay: 139.698 ms

Loss rate: 0.00%



Run 3: Report of TaoVA-100x — Data Link

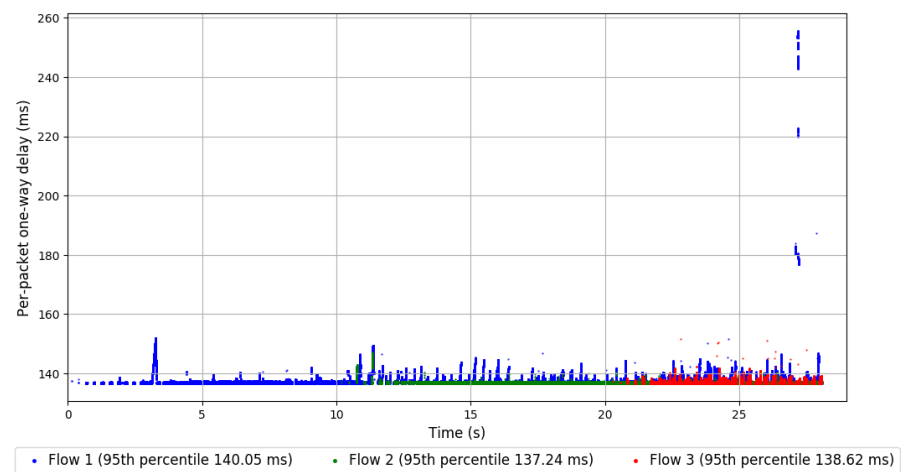
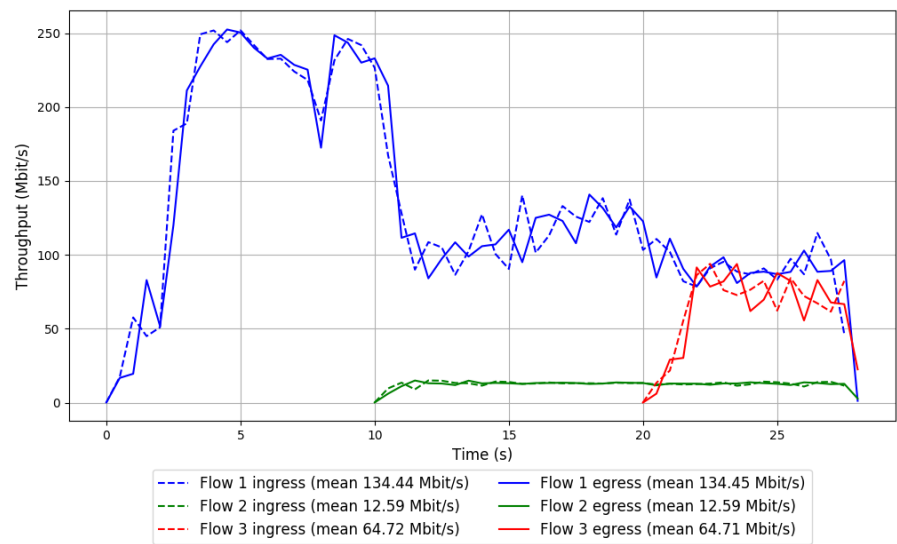


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-01 04:43:22
End at: 2017-09-01 04:43:52

# Below is generated by plot.py at 2017-09-01 07:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.53 Mbit/s
95th percentile per-packet one-way delay: 139.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.45 Mbit/s
95th percentile per-packet one-way delay: 140.049 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 137.241 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 138.623 ms
Loss rate: 0.00%
```

Run 4: Report of TaoVA-100x — Data Link



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-01 04:57:28

End at: 2017-09-01 04:57:58

# Below is generated by plot.py at 2017-09-01 07:52:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 157.71 Mbit/s

95th percentile per-packet one-way delay: 140.224 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.14 Mbit/s

95th percentile per-packet one-way delay: 140.013 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 140.680 ms

Loss rate: 0.00%

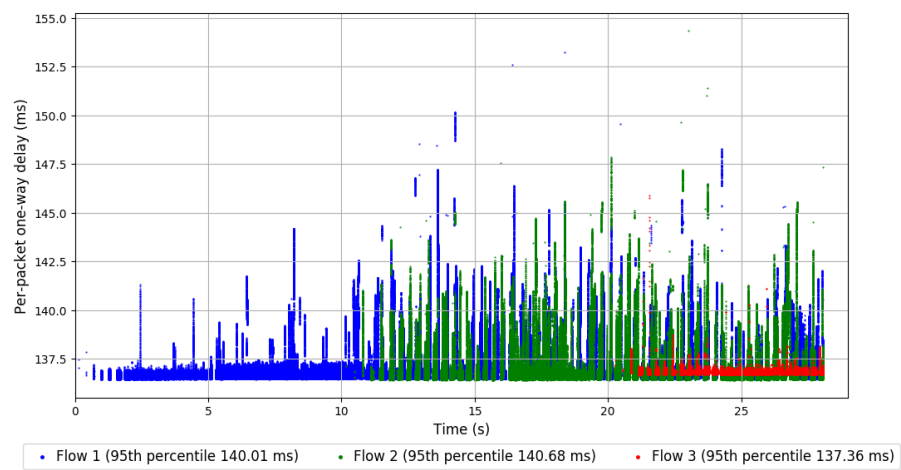
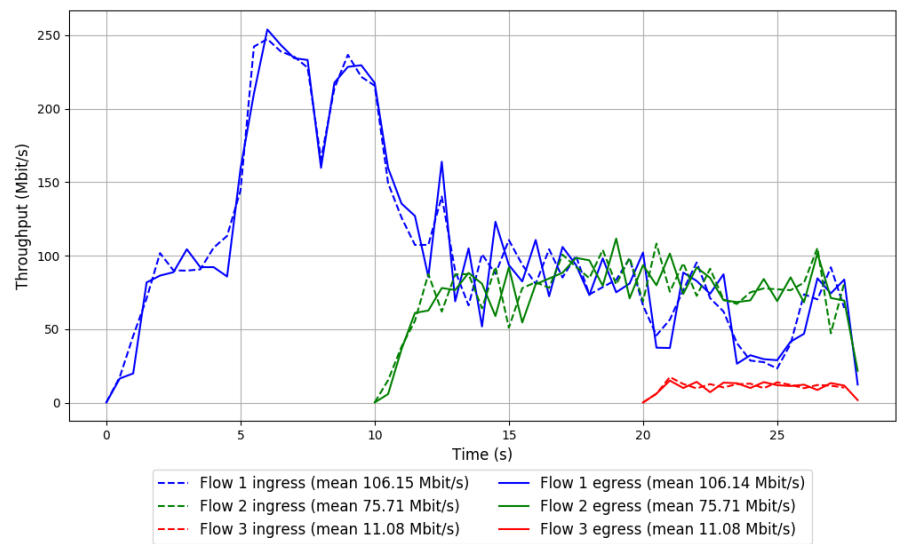
-- Flow 3:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 137.357 ms

Loss rate: 0.00%

Run 5: Report of TaoVA-100x — Data Link



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-01 05:11:27

End at: 2017-09-01 05:11:57

# Below is generated by plot.py at 2017-09-01 07:52:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.33 Mbit/s

95th percentile per-packet one-way delay: 138.523 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 137.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 137.641 ms

Loss rate: 0.00%

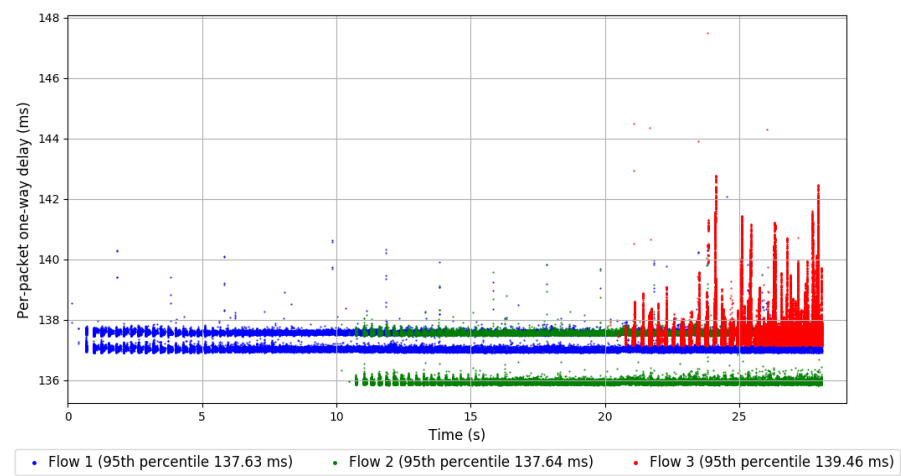
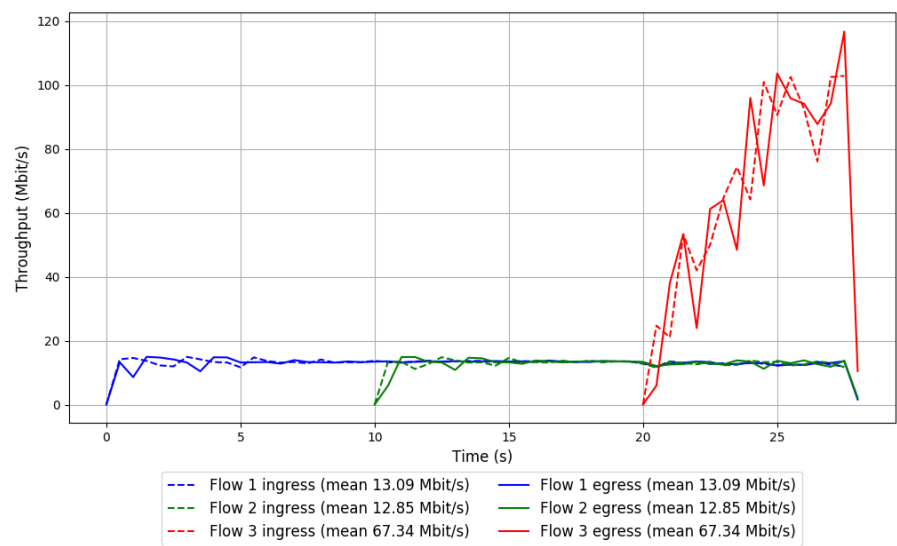
-- Flow 3:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 139.461 ms

Loss rate: 0.00%

Run 6: Report of TaoVA-100x — Data Link



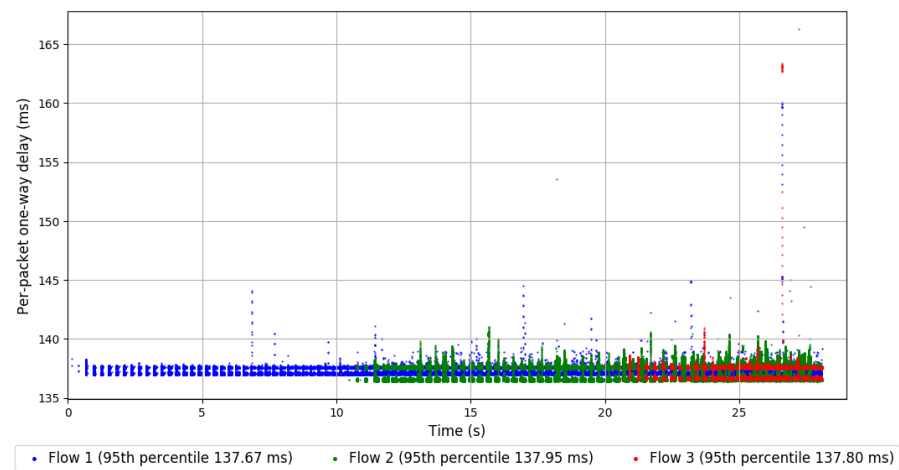
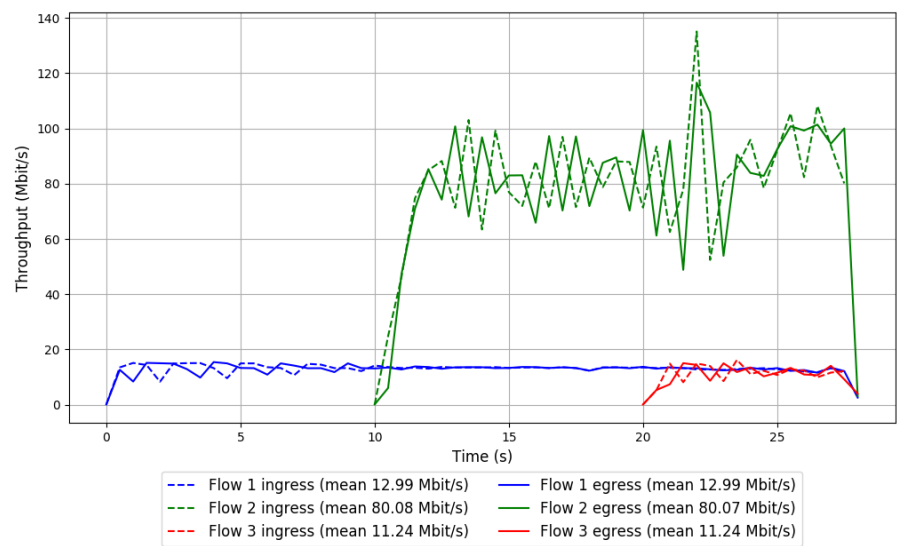
```
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-01 05:25:07
End at: 2017-09-01 05:25:37

# Below is generated by plot.py at 2017-09-01 07:52:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 137.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 137.669 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 137.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 137.798 ms
Loss rate: 0.00%
```



Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-01 05:38:58

End at: 2017-09-01 05:39:28

# Below is generated by plot.py at 2017-09-01 07:53:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 178.17 Mbit/s

95th percentile per-packet one-way delay: 140.058 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.78 Mbit/s

95th percentile per-packet one-way delay: 139.716 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.14 Mbit/s

95th percentile per-packet one-way delay: 140.642 ms

Loss rate: 0.00%

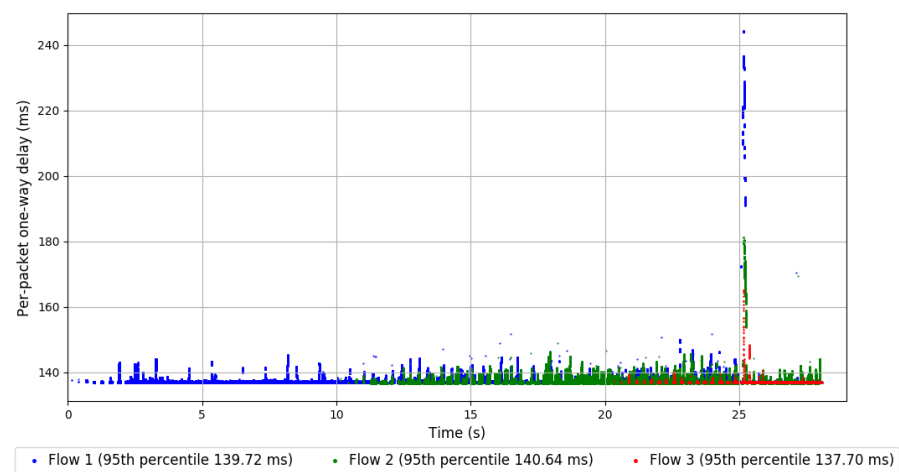
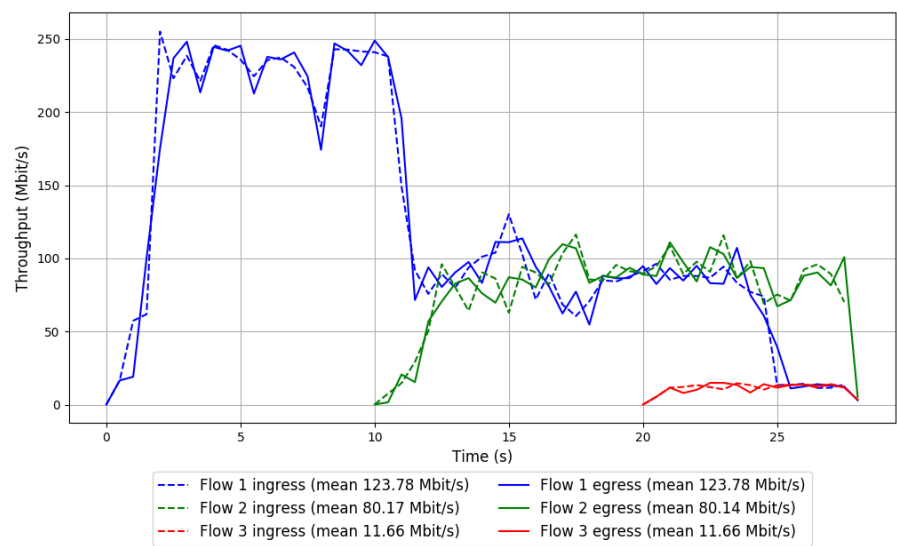
-- Flow 3:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link

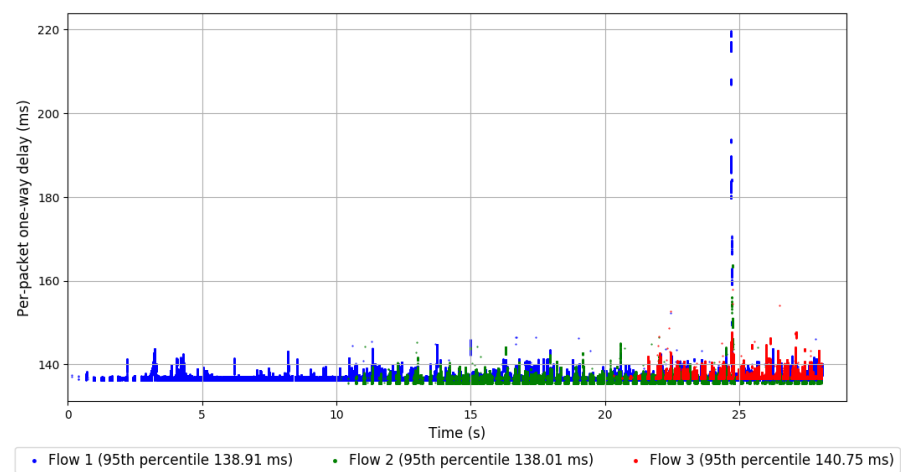
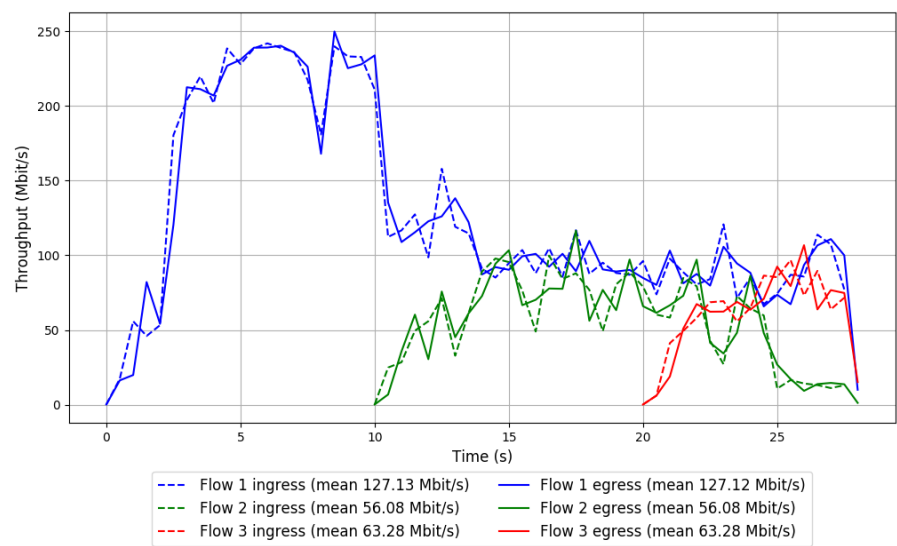


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-01 05:53:06
End at: 2017-09-01 05:53:36

# Below is generated by plot.py at 2017-09-01 07:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 180.55 Mbit/s
95th percentile per-packet one-way delay: 139.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.12 Mbit/s
95th percentile per-packet one-way delay: 138.913 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.08 Mbit/s
95th percentile per-packet one-way delay: 138.015 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.28 Mbit/s
95th percentile per-packet one-way delay: 140.752 ms
Loss rate: 0.00%
```

Run 9: Report of TaoVA-100x — Data Link

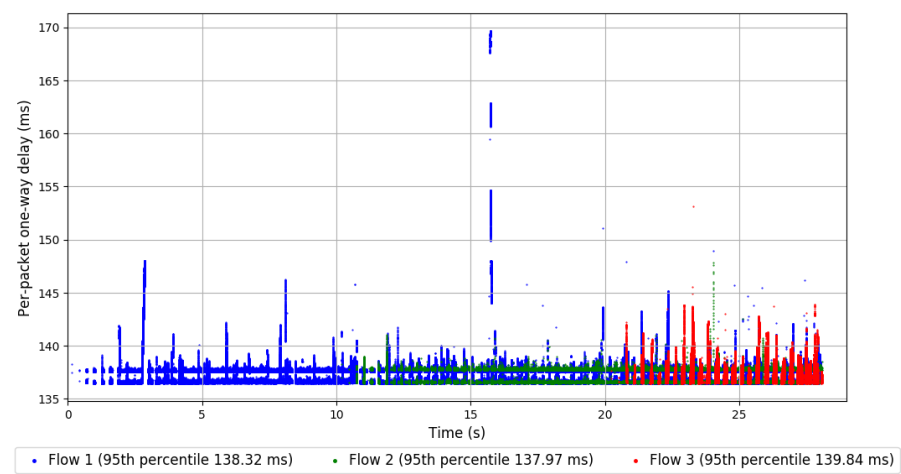
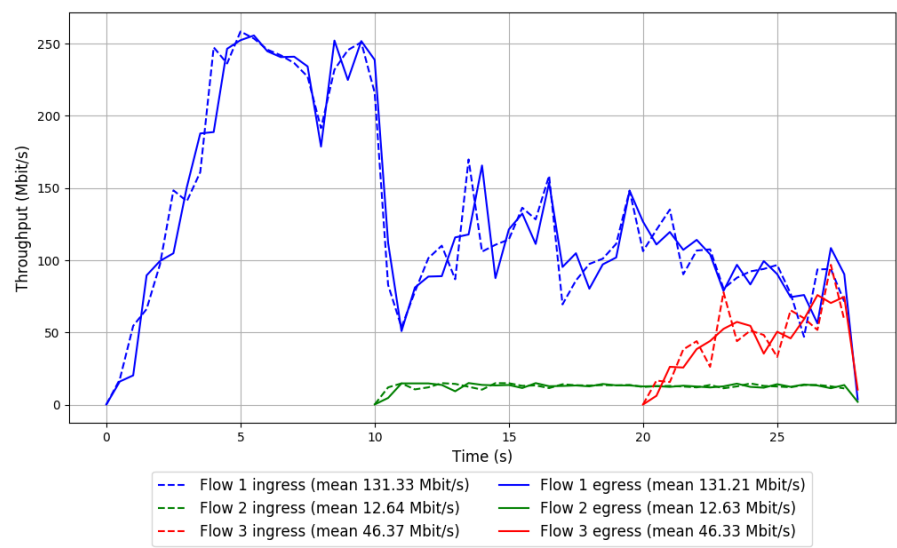


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-01 06:07:12
End at: 2017-09-01 06:07:42

# Below is generated by plot.py at 2017-09-01 07:54:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 152.01 Mbit/s
95th percentile per-packet one-way delay: 138.454 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 131.21 Mbit/s
95th percentile per-packet one-way delay: 138.324 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 137.974 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 46.33 Mbit/s
95th percentile per-packet one-way delay: 139.842 ms
Loss rate: 0.07%
```

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2017-09-01 03:52:07

End at: 2017-09-01 03:52:37

# Below is generated by plot.py at 2017-09-01 07:54:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.14 Mbit/s

95th percentile per-packet one-way delay: 139.370 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 139.099 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 139.740 ms

Loss rate: 0.01%

-- Flow 3:

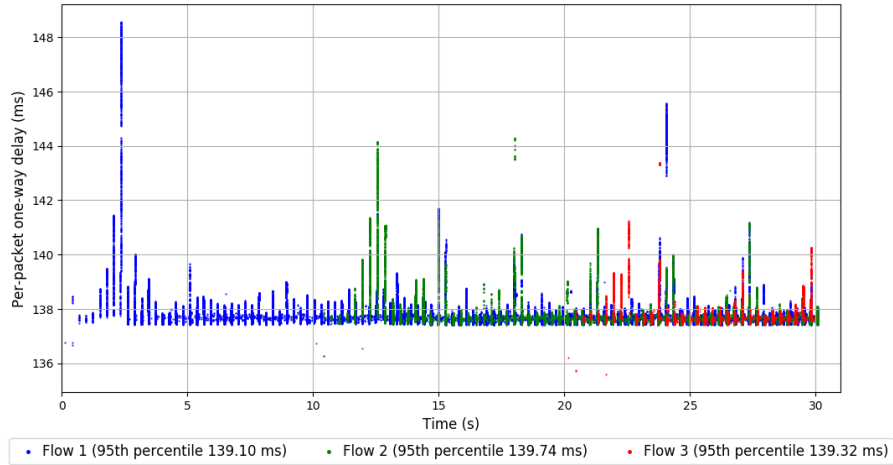
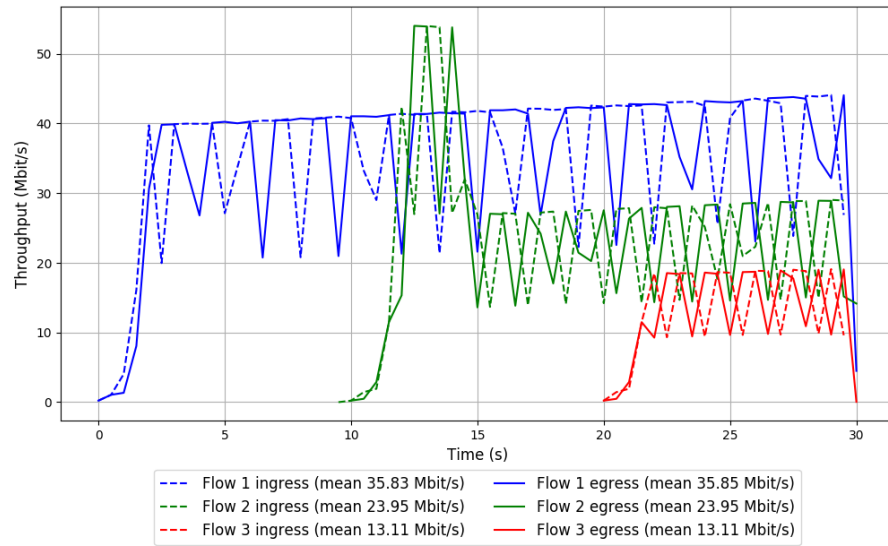
Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 139.320 ms

Loss rate: 0.00%



# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-01 04:06:26

End at: 2017-09-01 04:06:56

# Below is generated by plot.py at 2017-09-01 07:54:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 143.218 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 141.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 144.942 ms

Loss rate: 0.19%

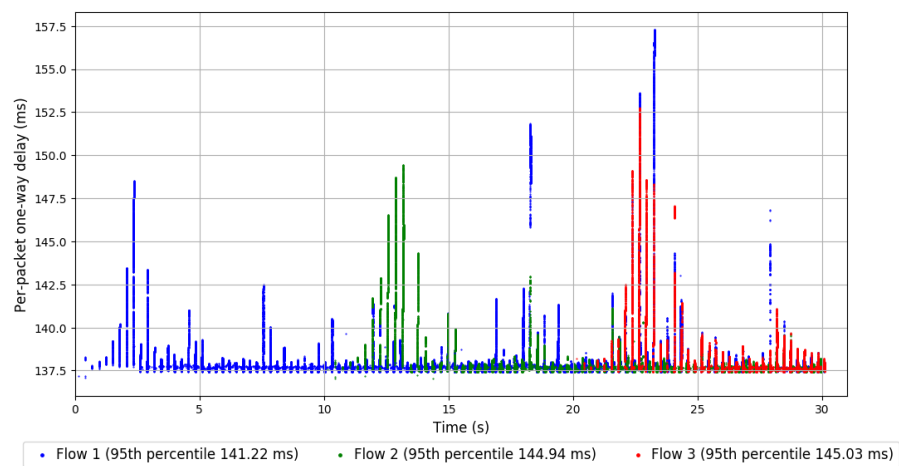
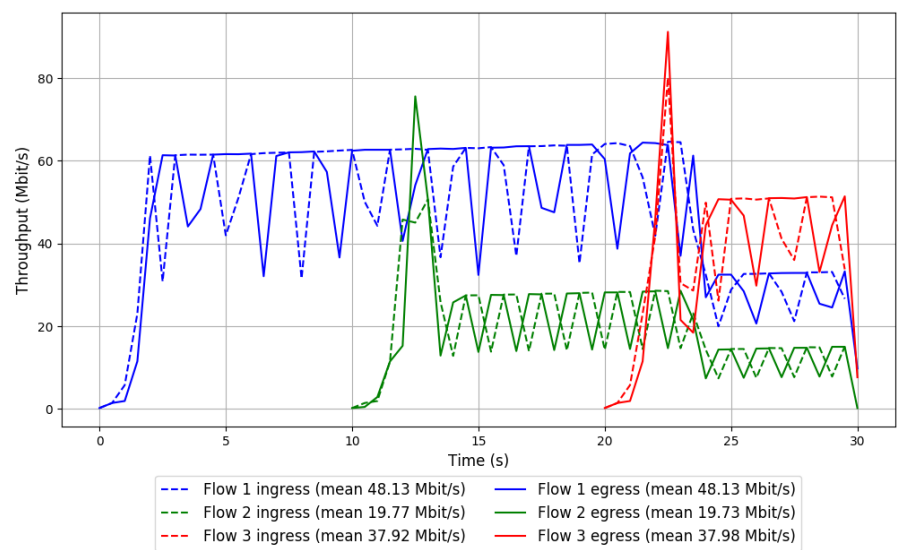
-- Flow 3:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 145.027 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-01 04:20:18

End at: 2017-09-01 04:20:48

# Below is generated by plot.py at 2017-09-01 07:54:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 138.921 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: 139.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 138.347 ms

Loss rate: 0.01%

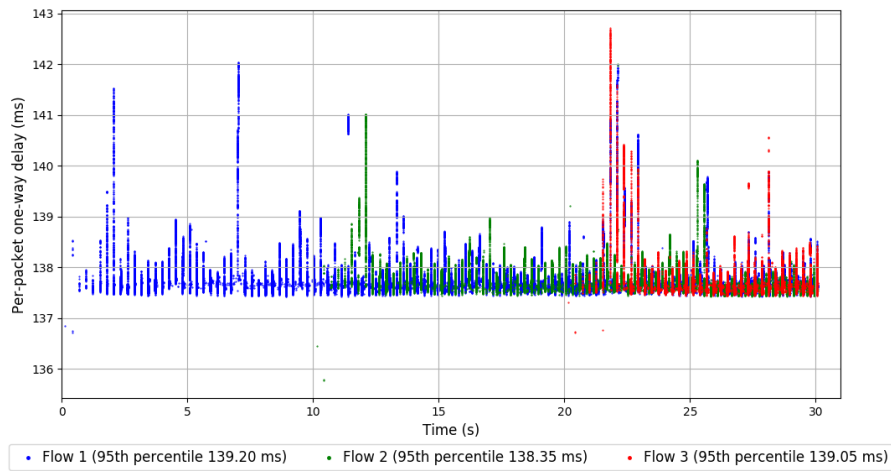
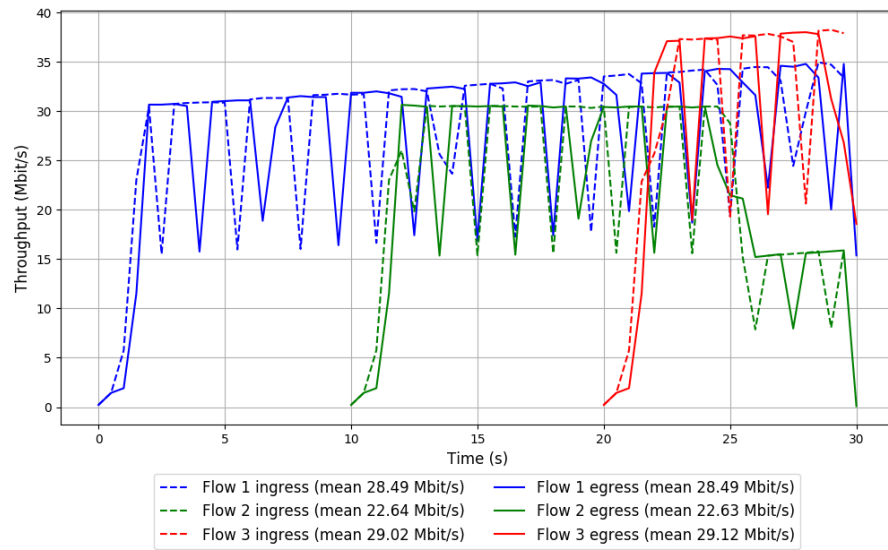
-- Flow 3:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 139.051 ms

Loss rate: 0.00%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-01 04:34:17

End at: 2017-09-01 04:34:47

# Below is generated by plot.py at 2017-09-01 07:54:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 138.728 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.00 Mbit/s

95th percentile per-packet one-way delay: 138.141 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.33 Mbit/s

95th percentile per-packet one-way delay: 139.140 ms

Loss rate: 0.00%

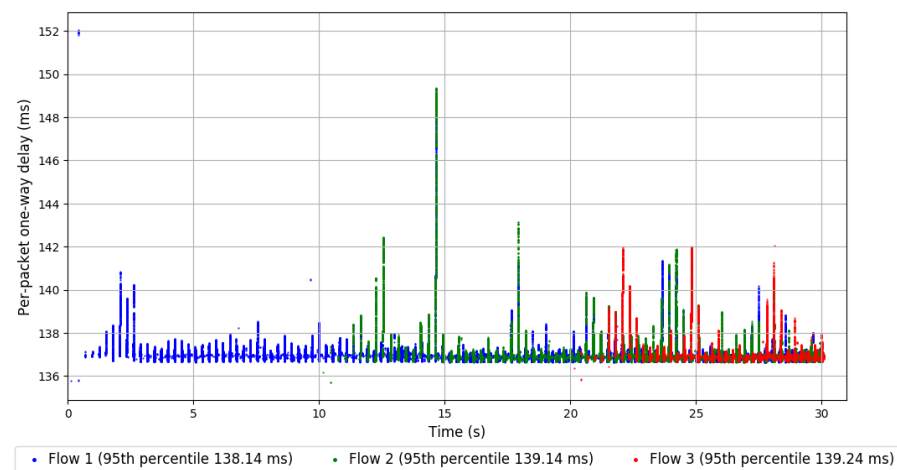
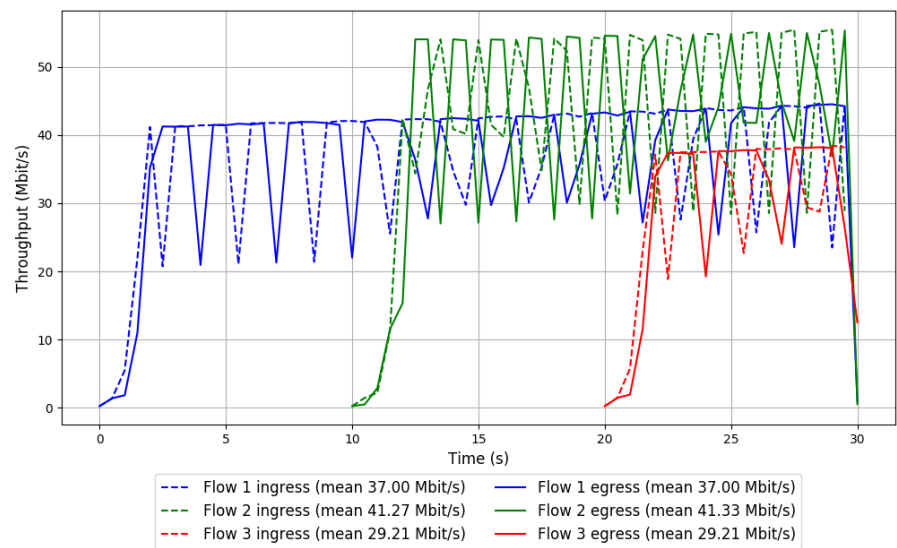
-- Flow 3:

Average throughput: 29.21 Mbit/s

95th percentile per-packet one-way delay: 139.240 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-01 04:48:27

End at: 2017-09-01 04:48:57

# Below is generated by plot.py at 2017-09-01 07:54:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 140.022 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 138.449 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.57 Mbit/s

95th percentile per-packet one-way delay: 141.296 ms

Loss rate: 0.00%

-- Flow 3:

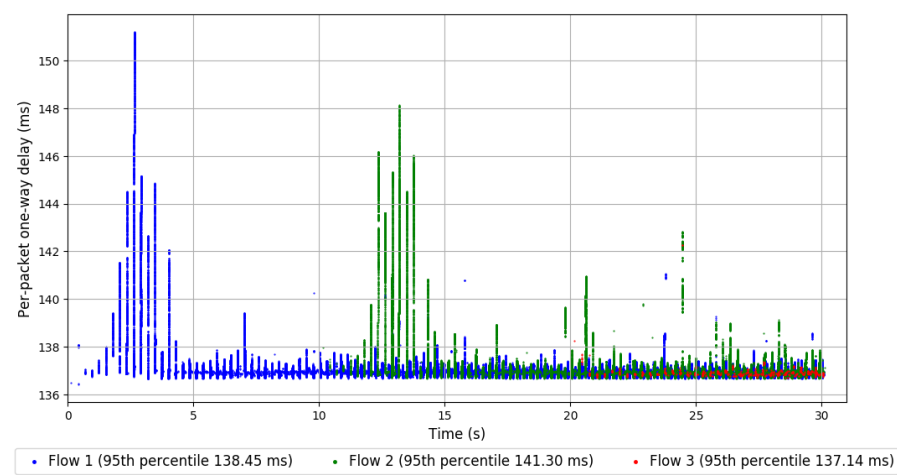
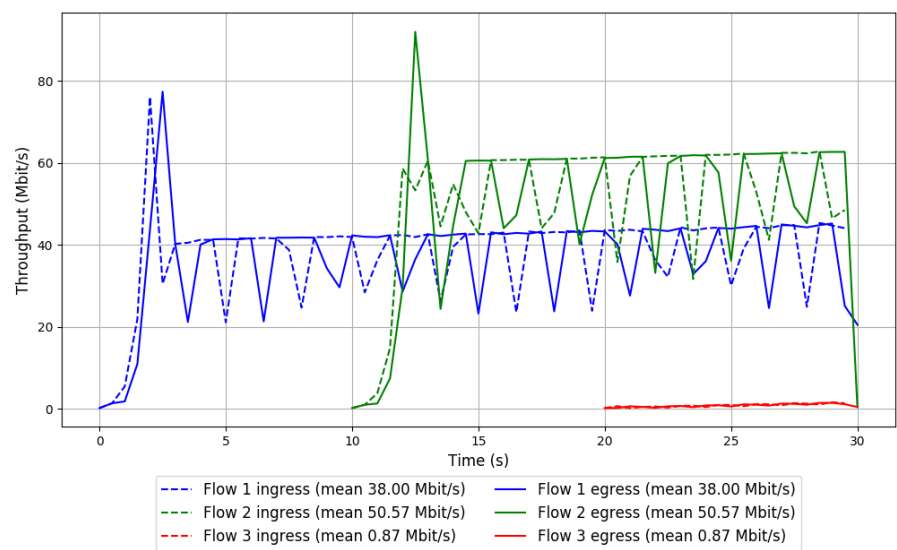
Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 137.136 ms

Loss rate: 0.14%



Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-01 05:02:28

End at: 2017-09-01 05:02:58

# Below is generated by plot.py at 2017-09-01 07:54:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.40 Mbit/s

95th percentile per-packet one-way delay: 137.967 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 26.09 Mbit/s

95th percentile per-packet one-way delay: 137.852 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 137.852 ms

Loss rate: 0.03%

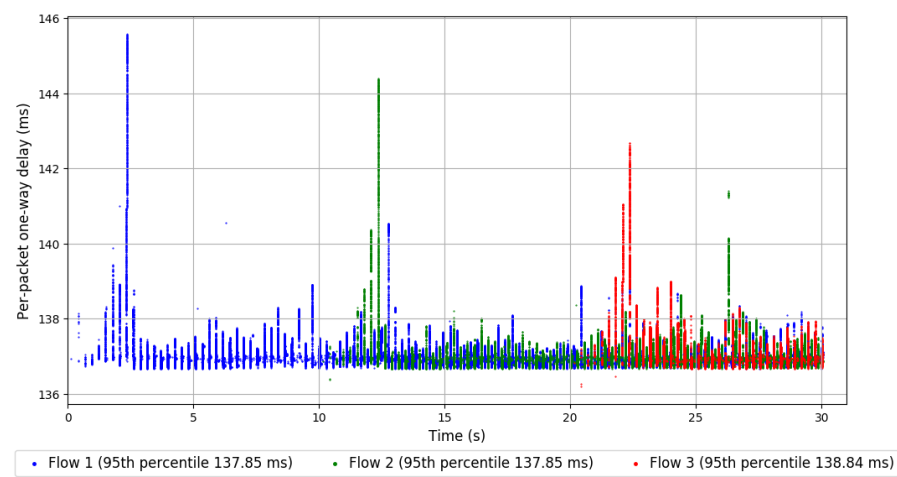
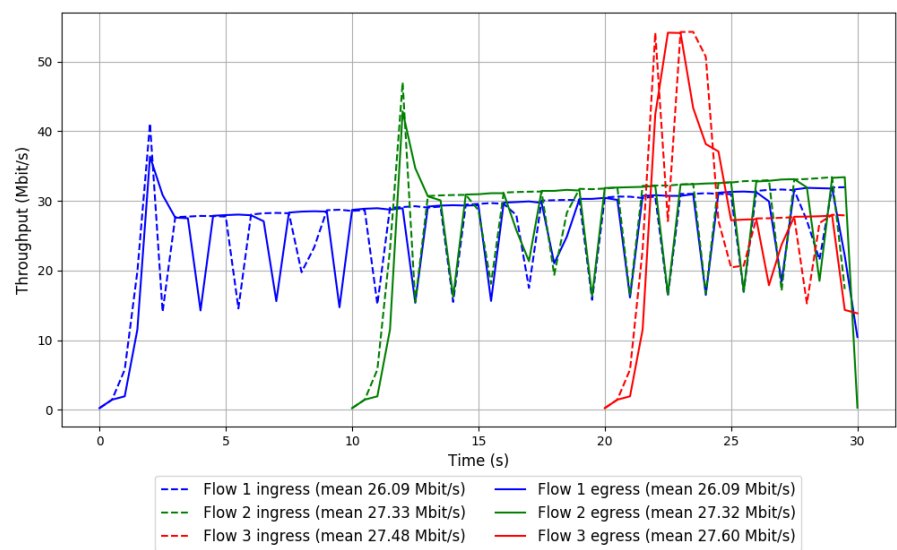
-- Flow 3:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 138.842 ms

Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-01 05:16:10

End at: 2017-09-01 05:16:40

# Below is generated by plot.py at 2017-09-01 07:54:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.84 Mbit/s

95th percentile per-packet one-way delay: 139.607 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 139.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 139.170 ms

Loss rate: 0.02%

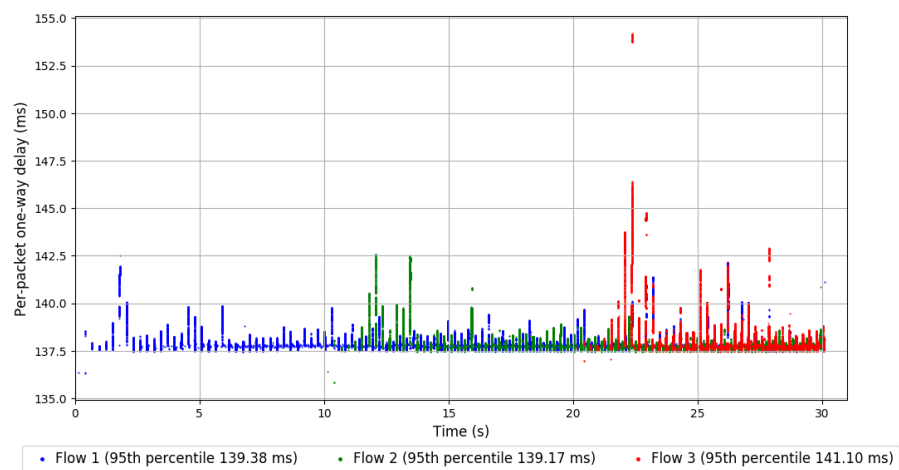
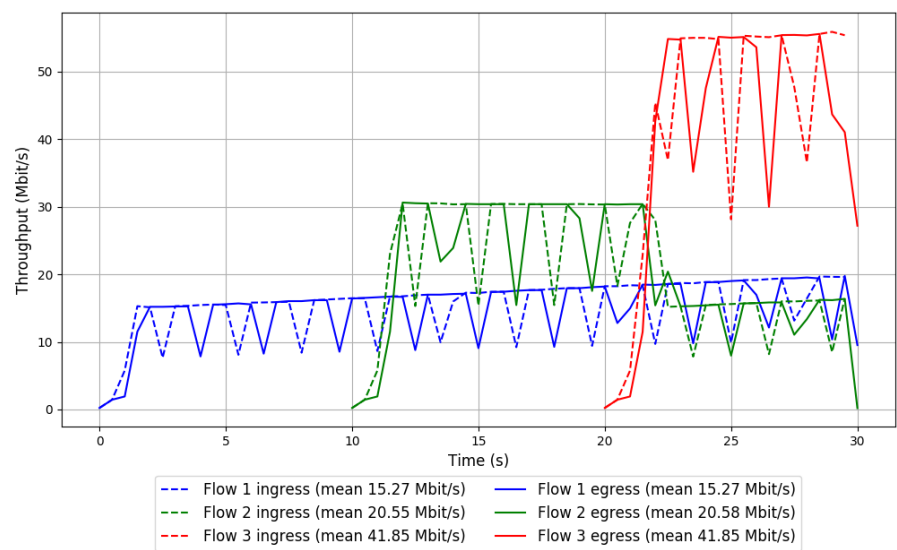
-- Flow 3:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 141.097 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-01 05:29:57

End at: 2017-09-01 05:30:27

# Below is generated by plot.py at 2017-09-01 07:54:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.10 Mbit/s

95th percentile per-packet one-way delay: 138.911 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 138.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 139.486 ms

Loss rate: 0.00%

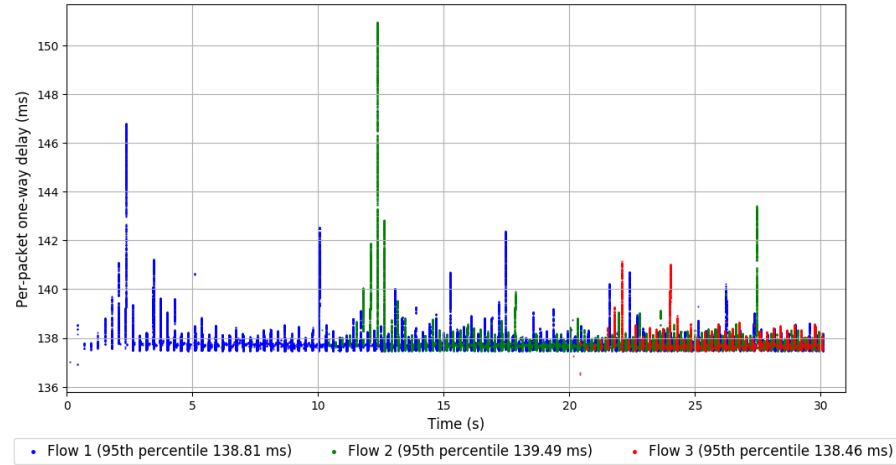
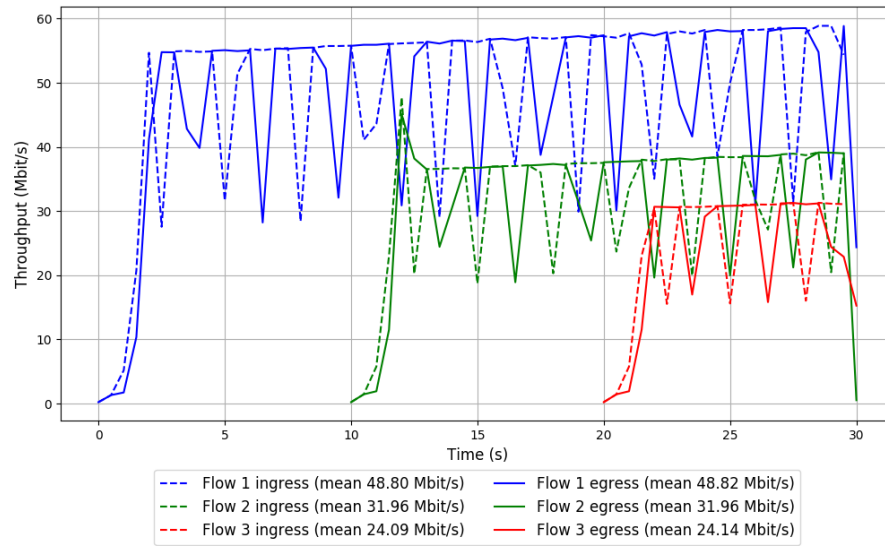
-- Flow 3:

Average throughput: 24.14 Mbit/s

95th percentile per-packet one-way delay: 138.460 ms

Loss rate: 0.01%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-01 05:44:02

End at: 2017-09-01 05:44:32

# Below is generated by plot.py at 2017-09-01 07:54:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 144.757 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 138.257 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 144.977 ms

Loss rate: 0.00%

-- Flow 3:

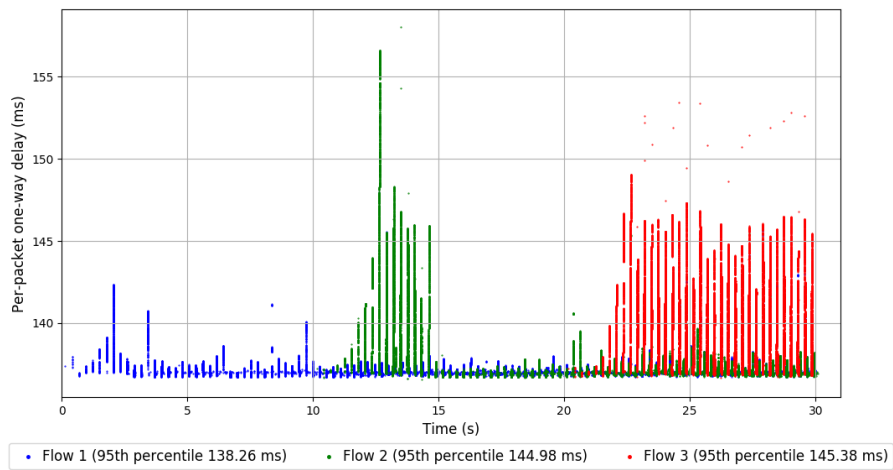
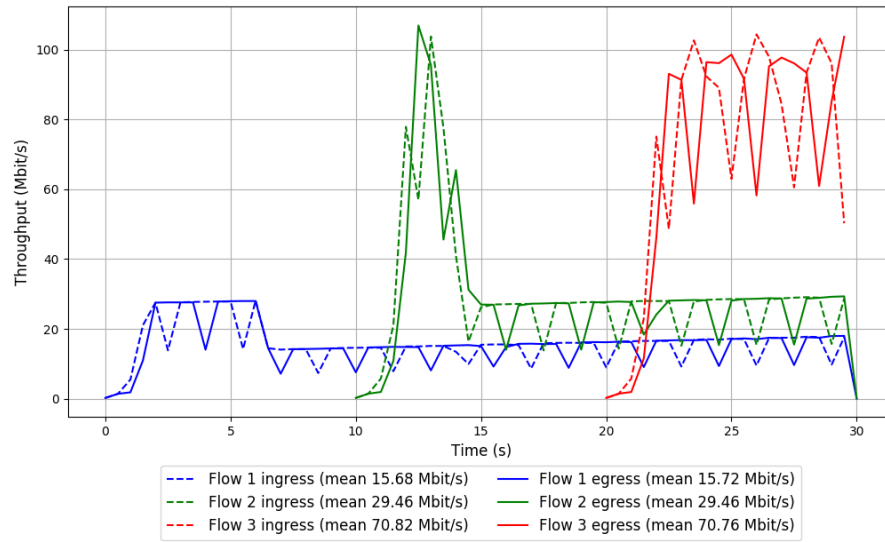
Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 145.385 ms

Loss rate: 0.00%



# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-01 05:58:12

End at: 2017-09-01 05:58:42

# Below is generated by plot.py at 2017-09-01 07:54:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 144.500 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 138.439 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 146.242 ms

Loss rate: 0.00%

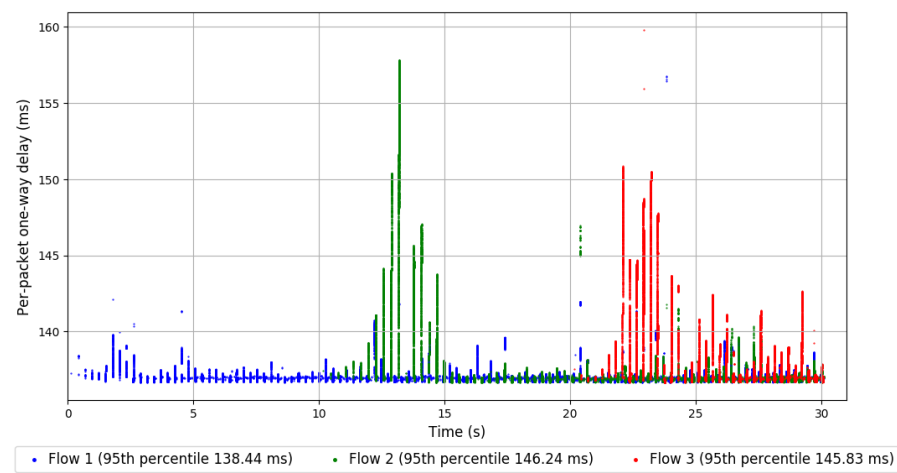
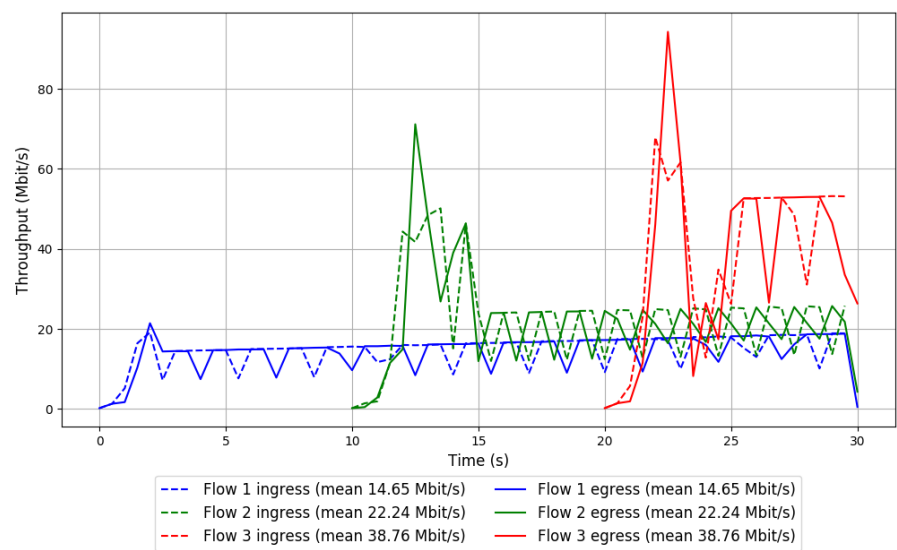
-- Flow 3:

Average throughput: 38.76 Mbit/s

95th percentile per-packet one-way delay: 145.829 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-01 03:59:36

End at: 2017-09-01 04:00:06

# Below is generated by plot.py at 2017-09-01 07:55:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 151.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 149.032 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.02 Mbit/s

95th percentile per-packet one-way delay: 181.488 ms

Loss rate: 0.00%

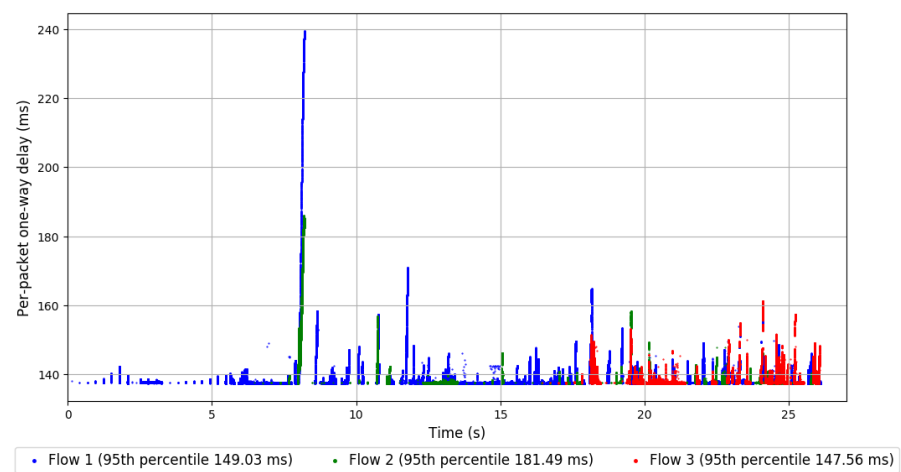
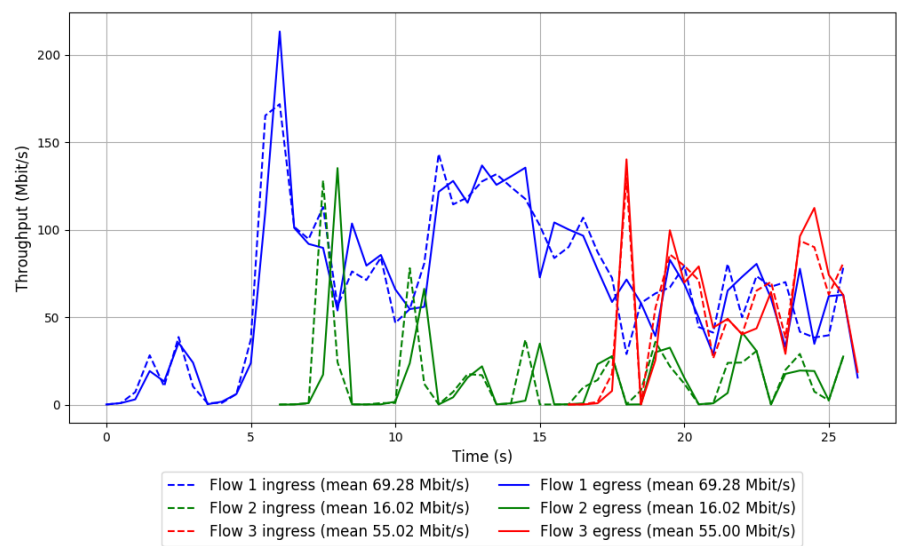
-- Flow 3:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 147.564 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-01 04:13:44

End at: 2017-09-01 04:14:14

# Below is generated by plot.py at 2017-09-01 07:55:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.32 Mbit/s

95th percentile per-packet one-way delay: 162.970 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.45 Mbit/s

95th percentile per-packet one-way delay: 157.642 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 189.897 ms

Loss rate: 0.00%

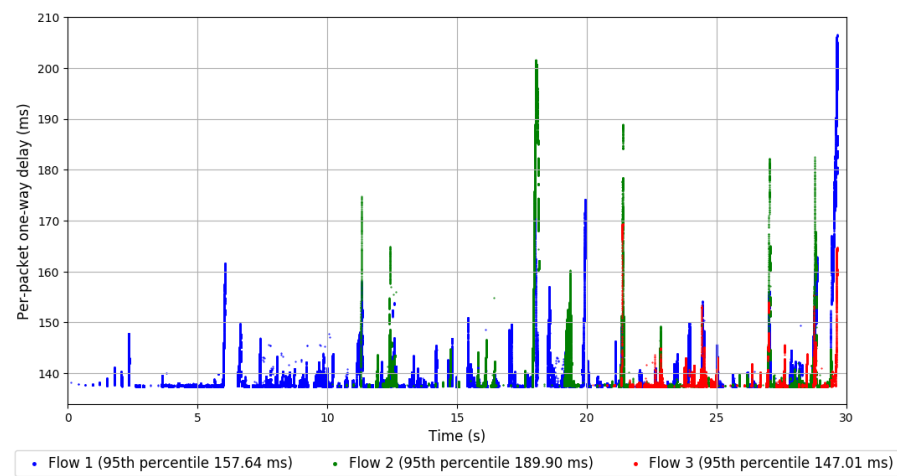
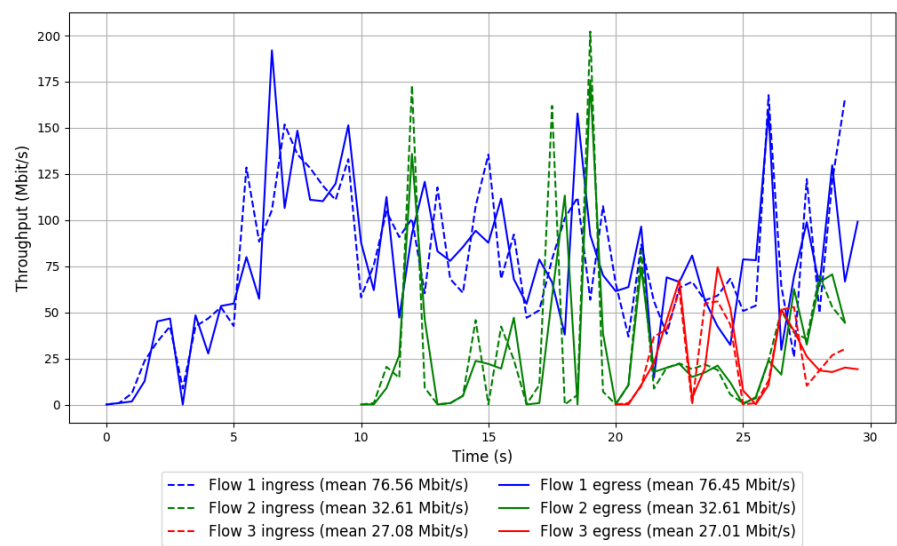
-- Flow 3:

Average throughput: 27.01 Mbit/s

95th percentile per-packet one-way delay: 147.015 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-01 04:27:32

End at: 2017-09-01 04:28:02

# Below is generated by plot.py at 2017-09-01 07:55:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 145.745 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 142.552 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 174.605 ms

Loss rate: 0.00%

-- Flow 3:

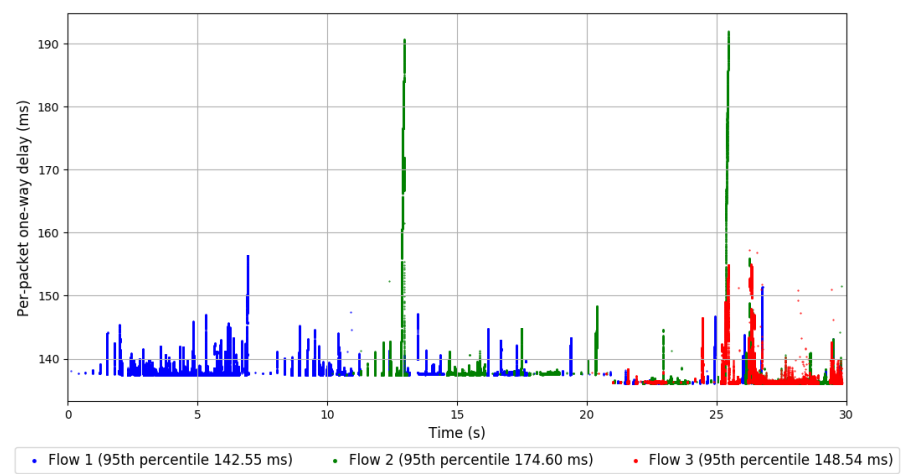
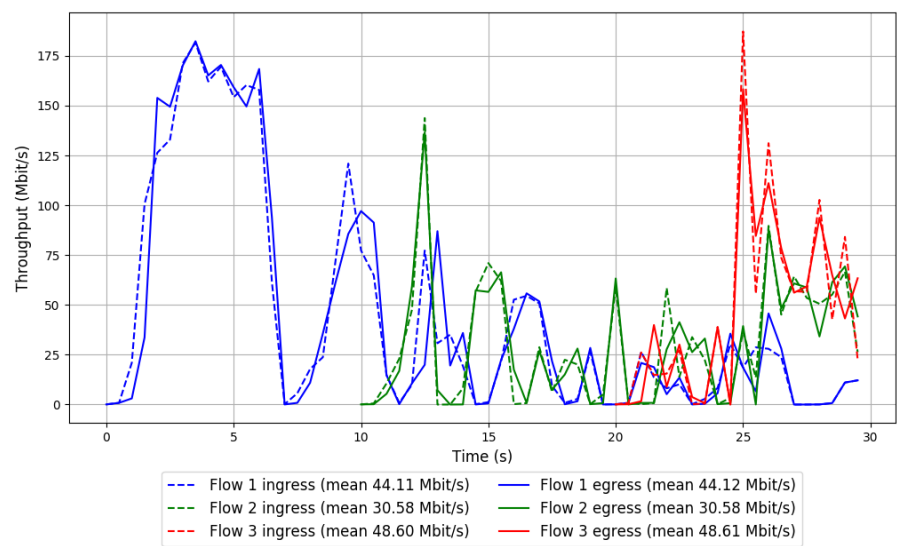
Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 148.542 ms

Loss rate: 0.00%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-01 04:41:33

End at: 2017-09-01 04:42:03

# Below is generated by plot.py at 2017-09-01 07:55:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 121.05 Mbit/s

95th percentile per-packet one-way delay: 152.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.16 Mbit/s

95th percentile per-packet one-way delay: 157.084 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 141.377 ms

Loss rate: 0.01%

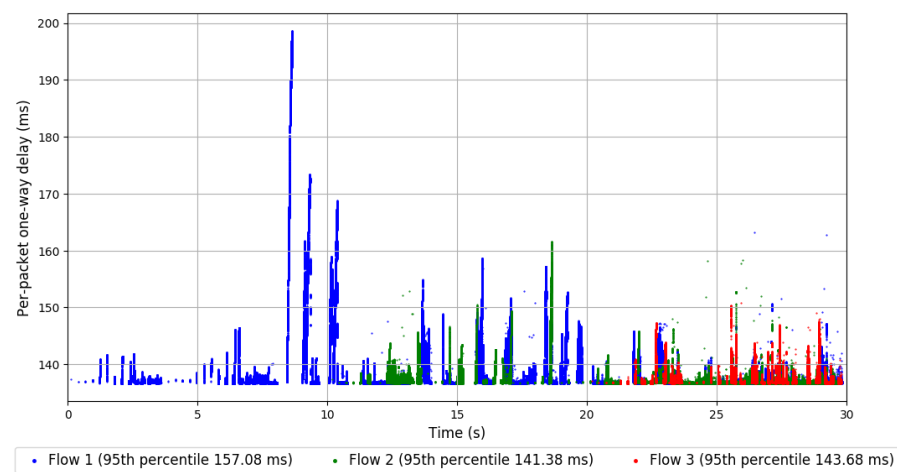
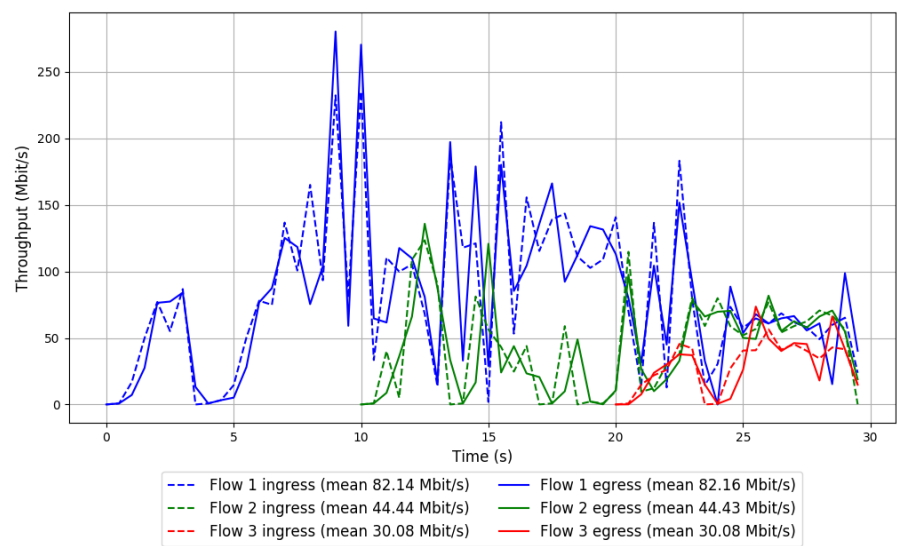
-- Flow 3:

Average throughput: 30.08 Mbit/s

95th percentile per-packet one-way delay: 143.681 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-01 04:55:45

End at: 2017-09-01 04:56:15

# Below is generated by plot.py at 2017-09-01 07:55:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 206.175 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 33.35 Mbit/s

95th percentile per-packet one-way delay: 155.426 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 259.621 ms

Loss rate: 0.24%

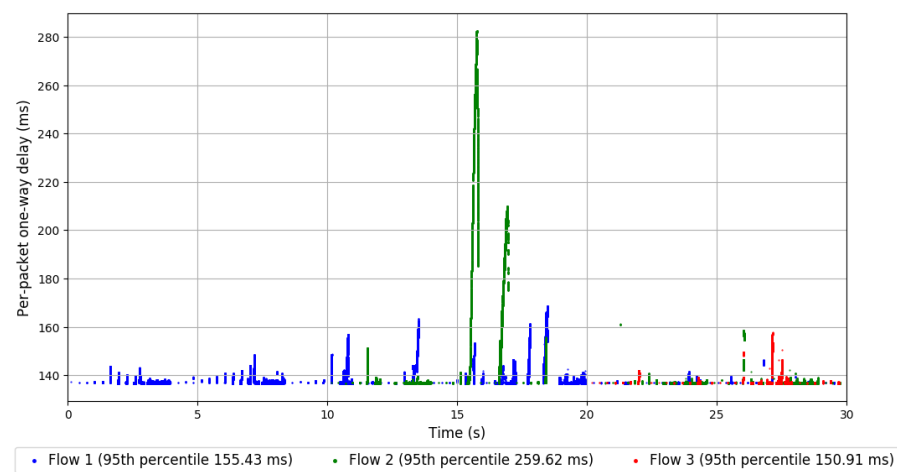
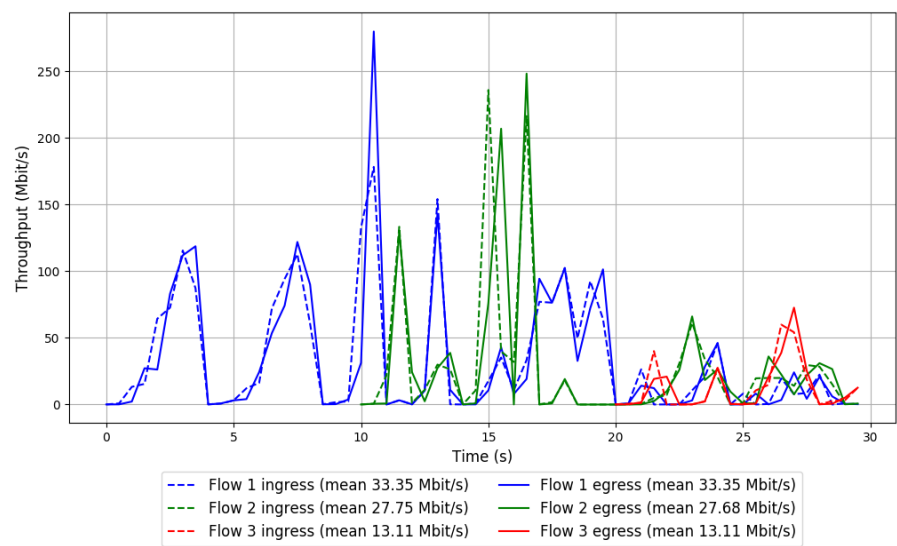
-- Flow 3:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 150.911 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-01 05:09:42

End at: 2017-09-01 05:10:12

Run 6: Report of Verus — Data Link

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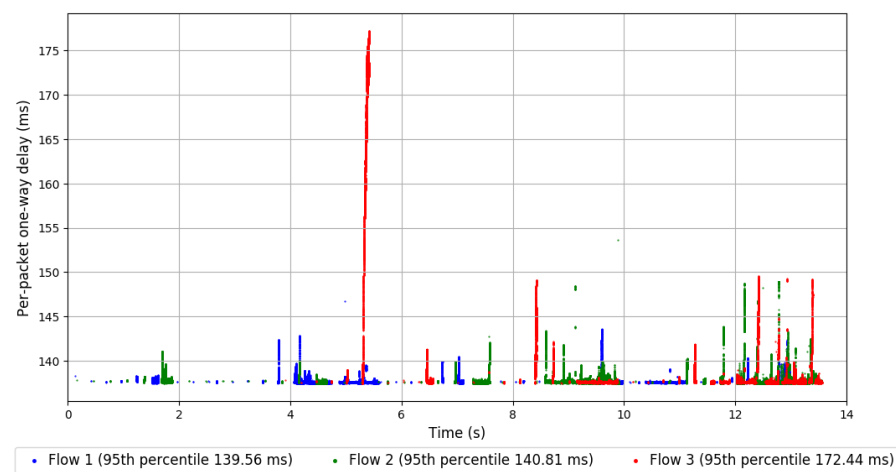
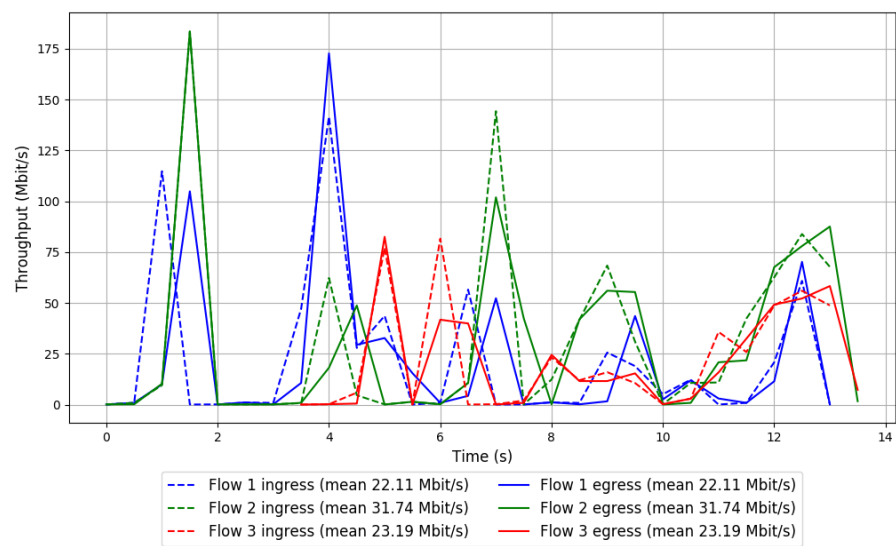
Run 7: Statistics of Verus

Start at: 2017-09-01 05:23:26

End at: 2017-09-01 05:23:56



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-01 05:37:11

End at: 2017-09-01 05:37:41

# Below is generated by plot.py at 2017-09-01 07:56:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 157.248 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 53.60 Mbit/s

95th percentile per-packet one-way delay: 155.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.11 Mbit/s

95th percentile per-packet one-way delay: 162.842 ms

Loss rate: 0.15%

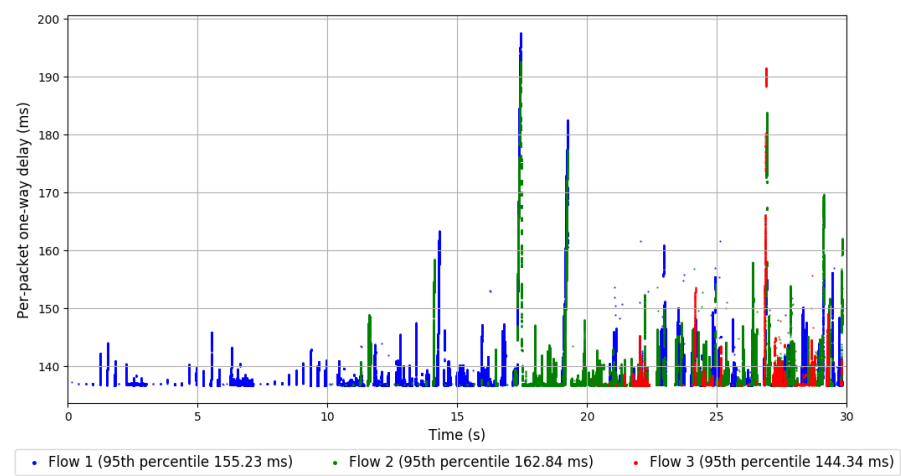
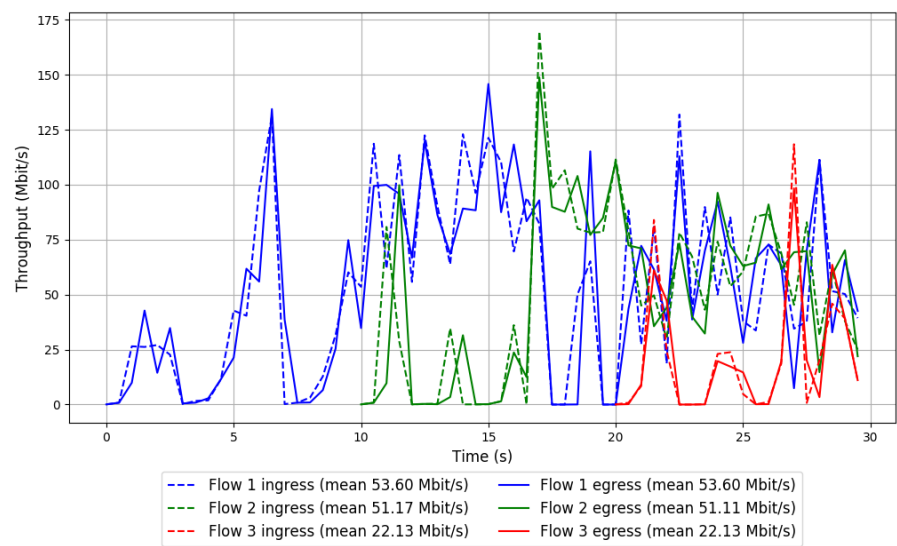
-- Flow 3:

Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 144.339 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-01 05:51:20

End at: 2017-09-01 05:51:50

# Below is generated by plot.py at 2017-09-01 07:56:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.53 Mbit/s

95th percentile per-packet one-way delay: 161.474 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 155.834 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.09 Mbit/s

95th percentile per-packet one-way delay: 182.164 ms

Loss rate: 0.00%

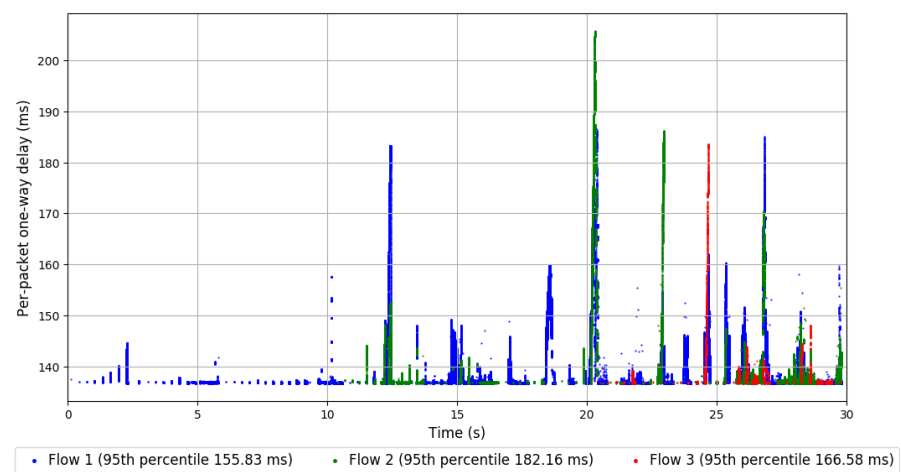
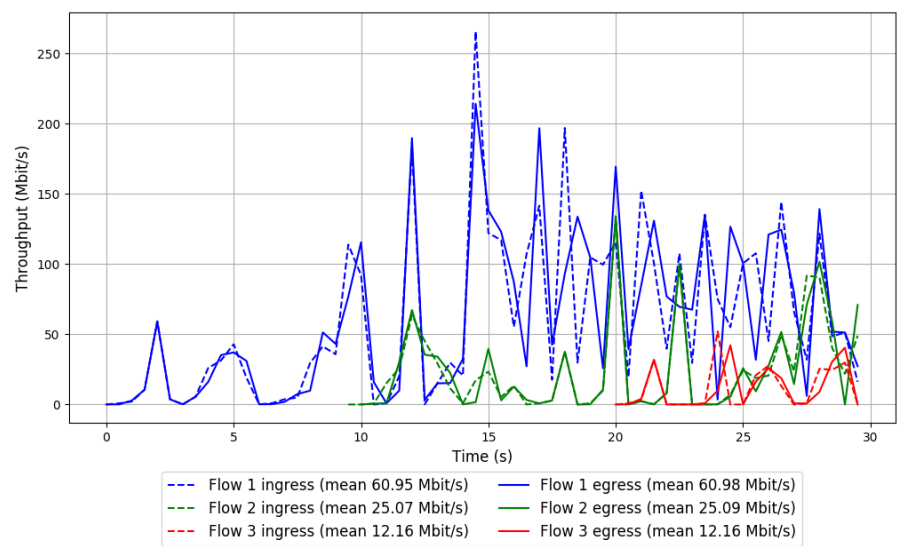
-- Flow 3:

Average throughput: 12.16 Mbit/s

95th percentile per-packet one-way delay: 166.583 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-01 06:05:28

End at: 2017-09-01 06:05:58

# Below is generated by plot.py at 2017-09-01 07:56:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.74 Mbit/s

95th percentile per-packet one-way delay: 162.251 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 148.640 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 174.039 ms

Loss rate: 0.08%

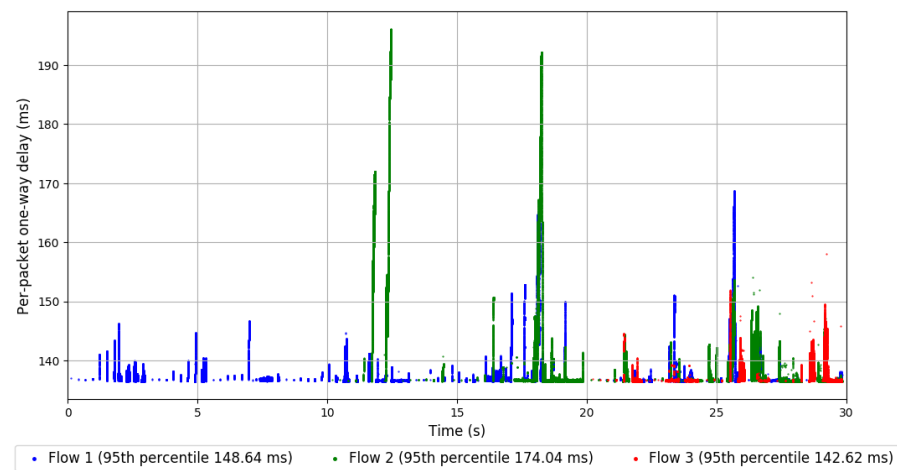
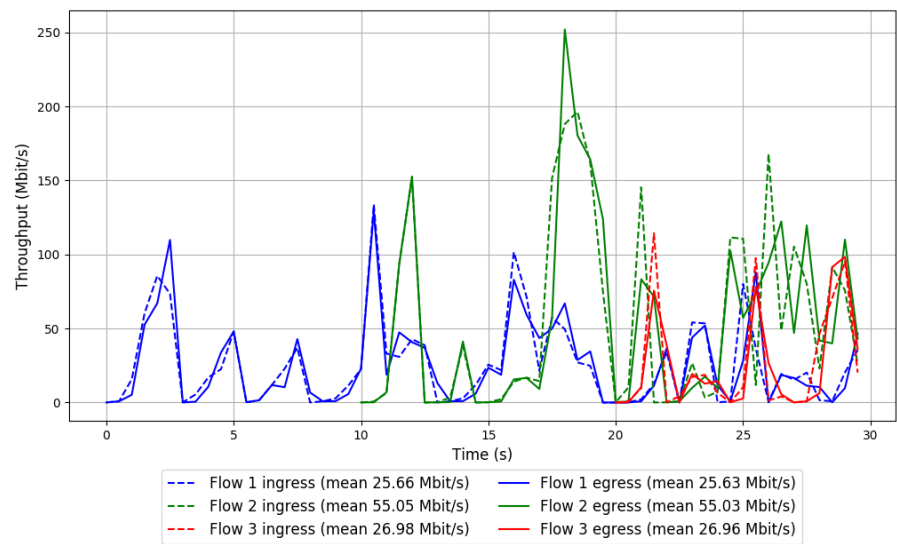
-- Flow 3:

Average throughput: 26.96 Mbit/s

95th percentile per-packet one-way delay: 142.624 ms

Loss rate: 0.11%

Run 10: Report of Verus — Data Link



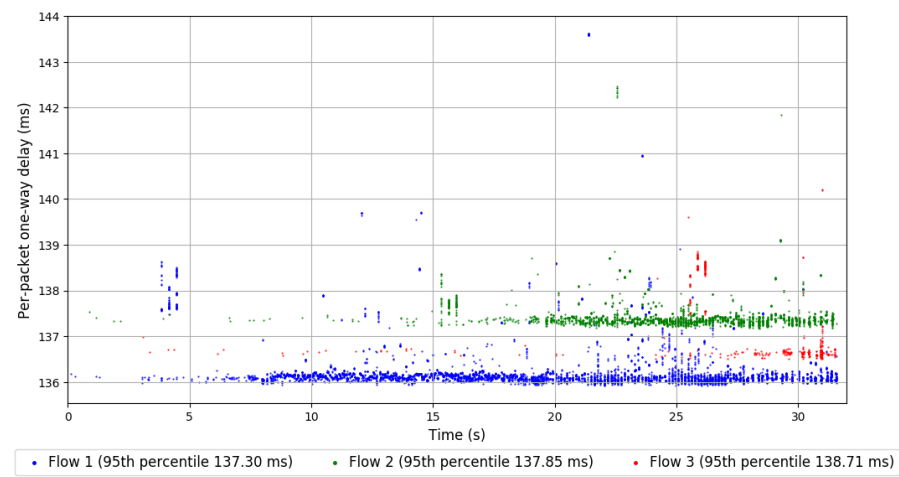
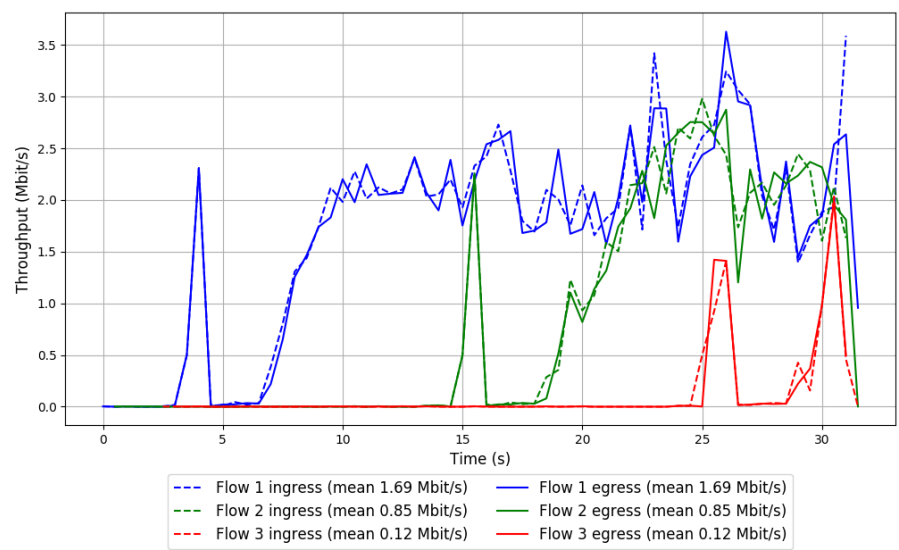
```
Run 1: Statistics of WebRTC media

Start at: 2017-09-01 03:54:00
End at: 2017-09-01 03:54:30

# Below is generated by plot.py at 2017-09-01 07:56:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 137.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 137.301 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 137.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 138.713 ms
Loss rate: 0.02%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-01 04:08:17

End at: 2017-09-01 04:08:47

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 137.714 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 137.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 137.123 ms

Loss rate: 0.00%

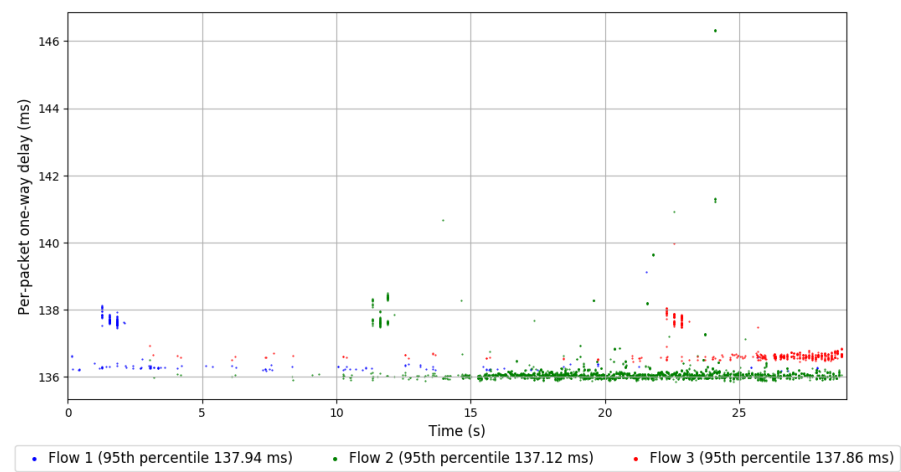
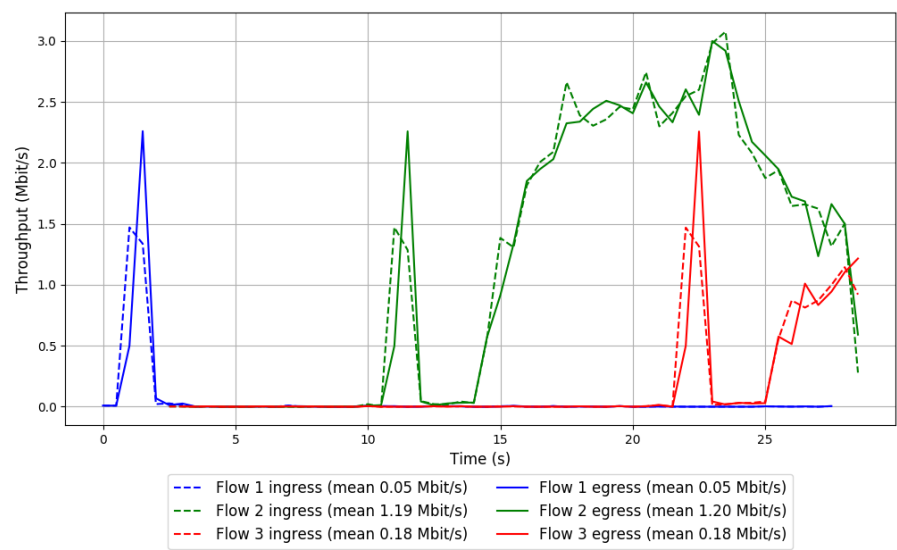
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 137.857 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-01 04:22:08

End at: 2017-09-01 04:22:38

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 137.794 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 138.236 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 137.585 ms

Loss rate: 0.03%

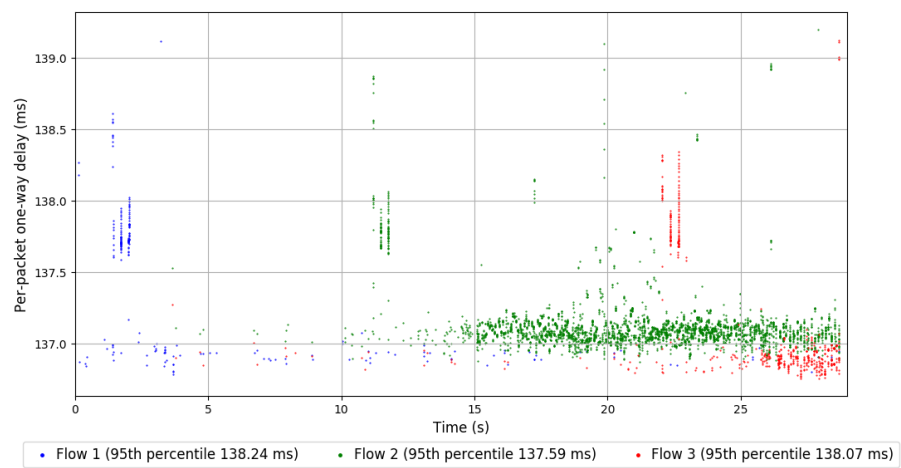
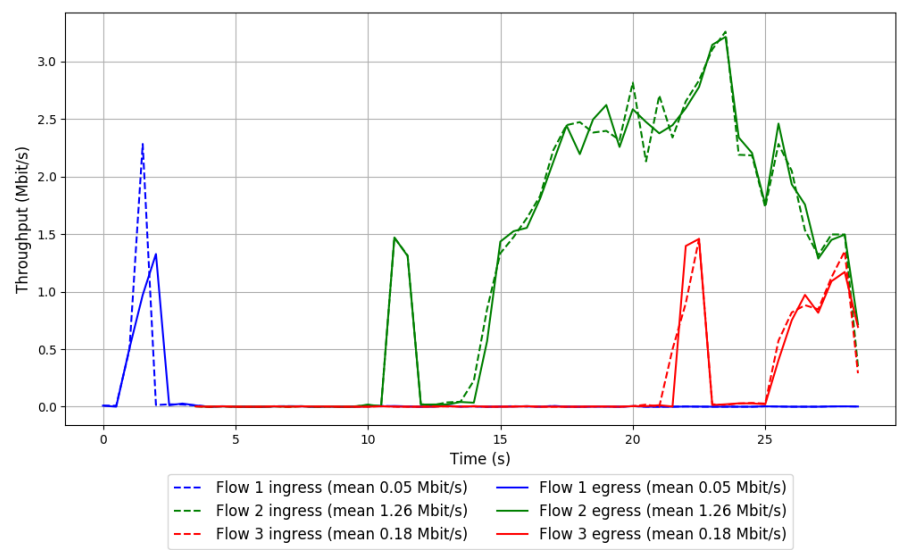
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 138.073 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-01 04:36:07

End at: 2017-09-01 04:36:37

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 137.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 139.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 136.873 ms

Loss rate: 0.00%

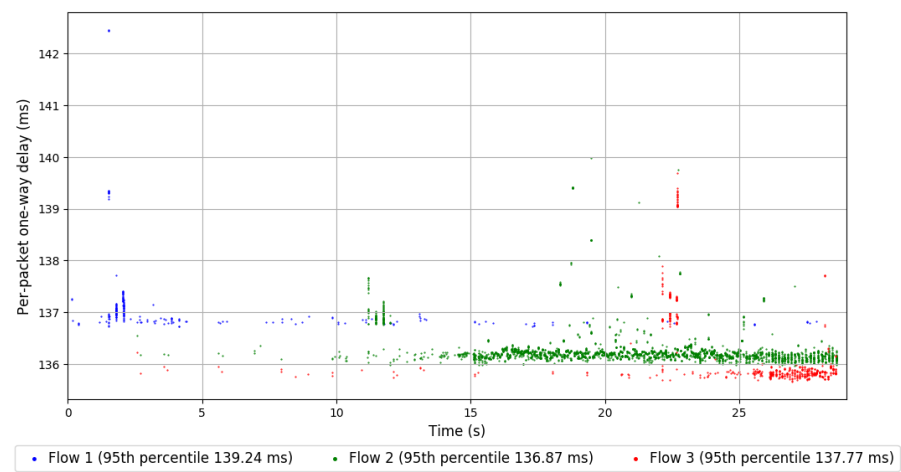
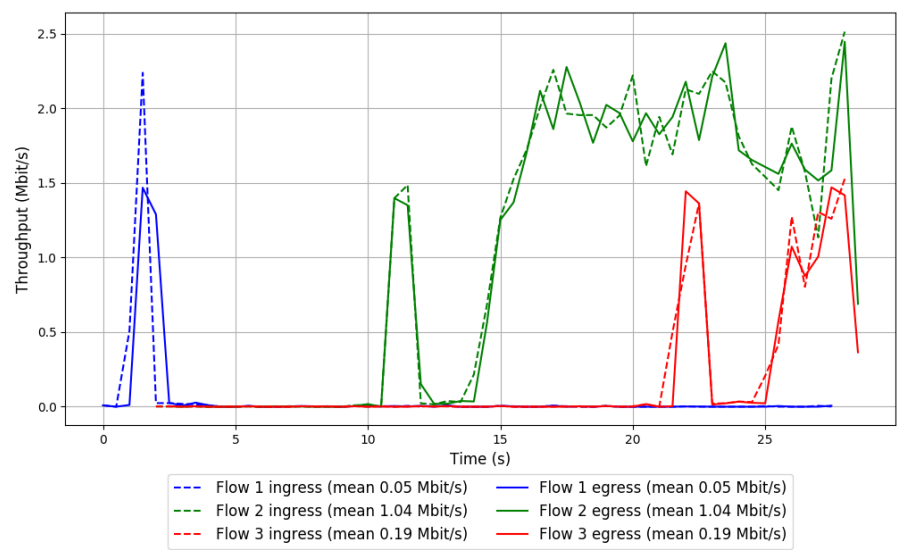
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 137.766 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-01 04:50:17

End at: 2017-09-01 04:50:47

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 137.135 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 137.569 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 0.00%

-- Flow 3:

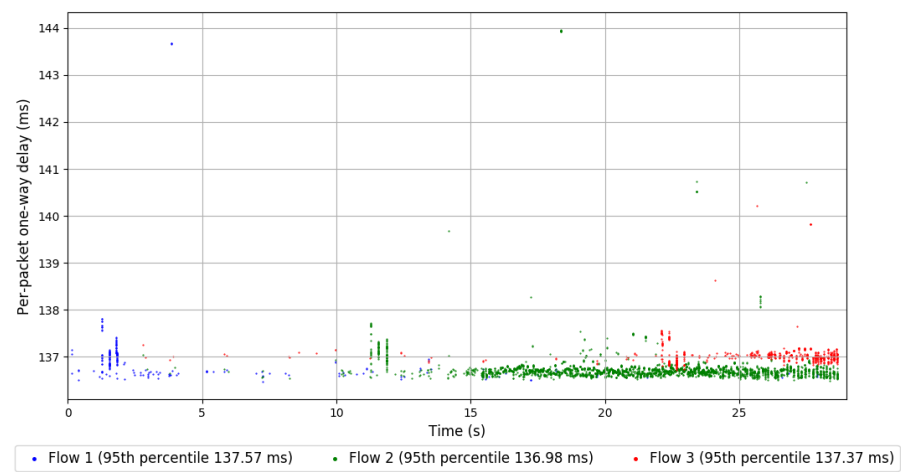
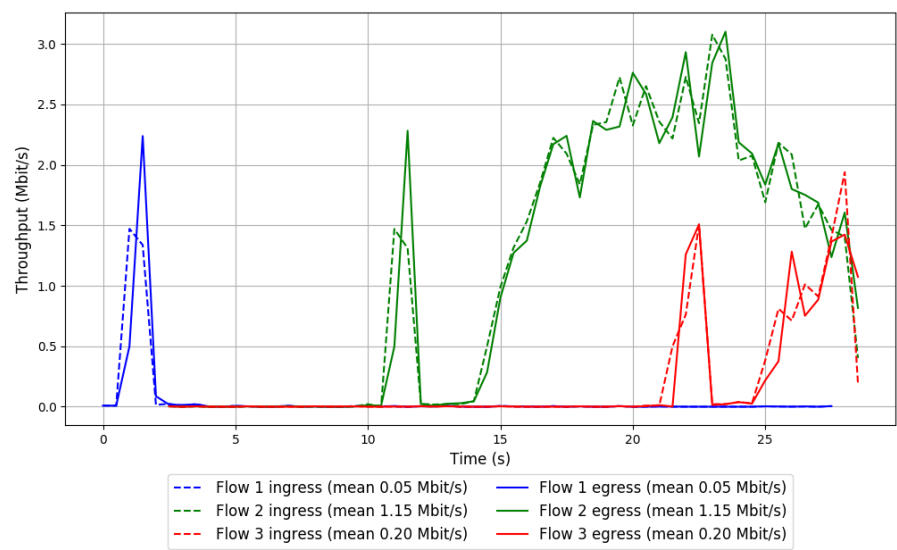
Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 137.368 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-01 05:04:18

End at: 2017-09-01 05:04:48

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 137.760 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 138.478 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 136.789 ms

Loss rate: 0.13%

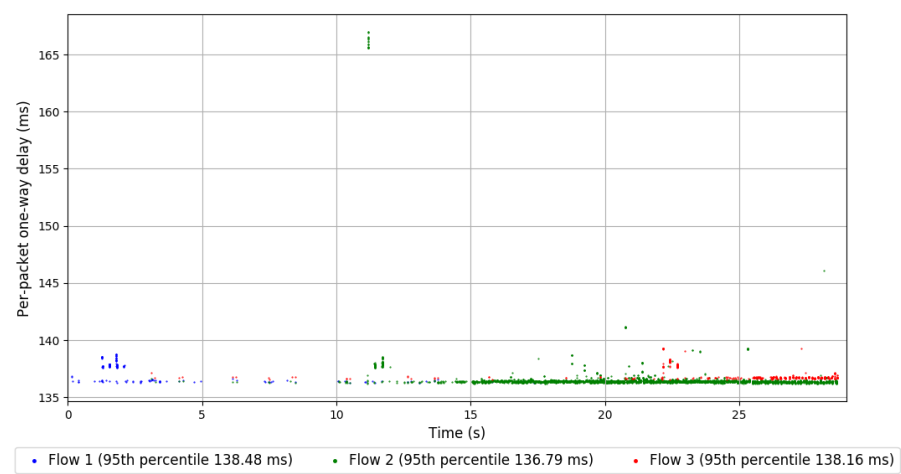
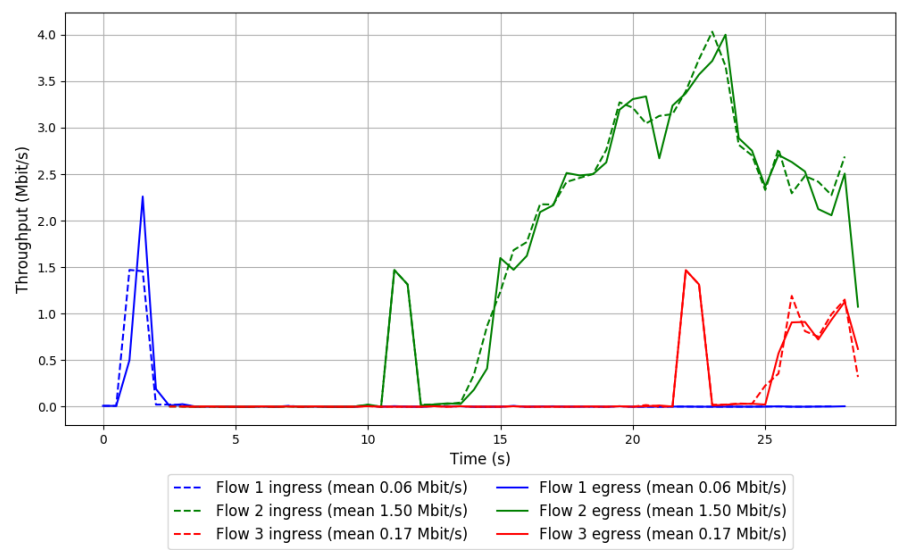
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 138.156 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-01 05:17:58

End at: 2017-09-01 05:18:28

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 137.702 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 138.244 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.286 ms

Loss rate: 0.00%

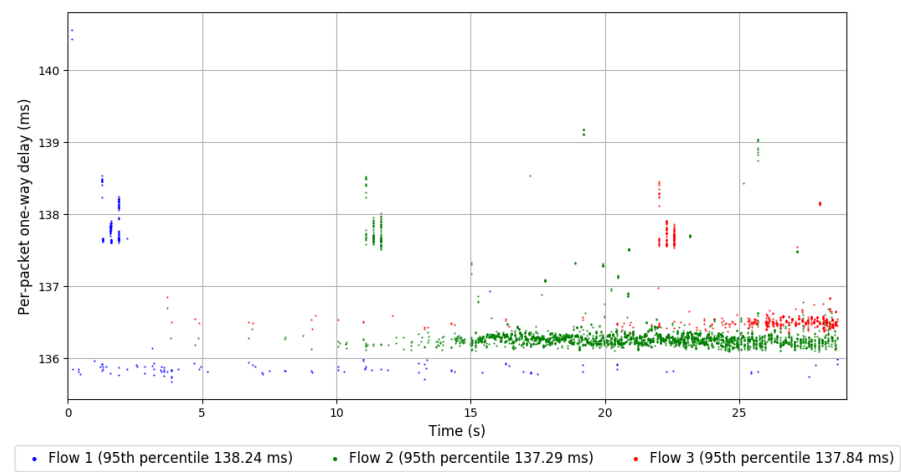
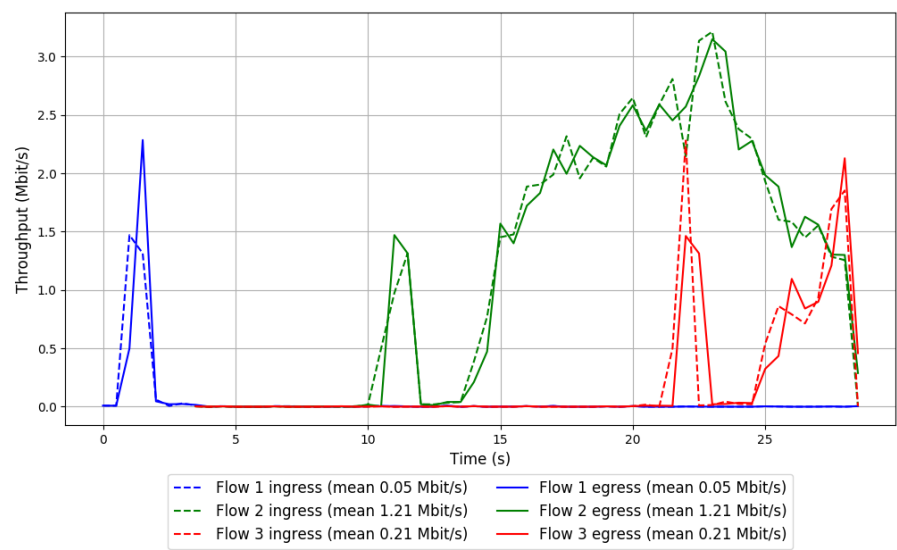
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 137.842 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-01 05:31:49

End at: 2017-09-01 05:32:19

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 137.261 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 137.525 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 137.060 ms

Loss rate: 0.22%

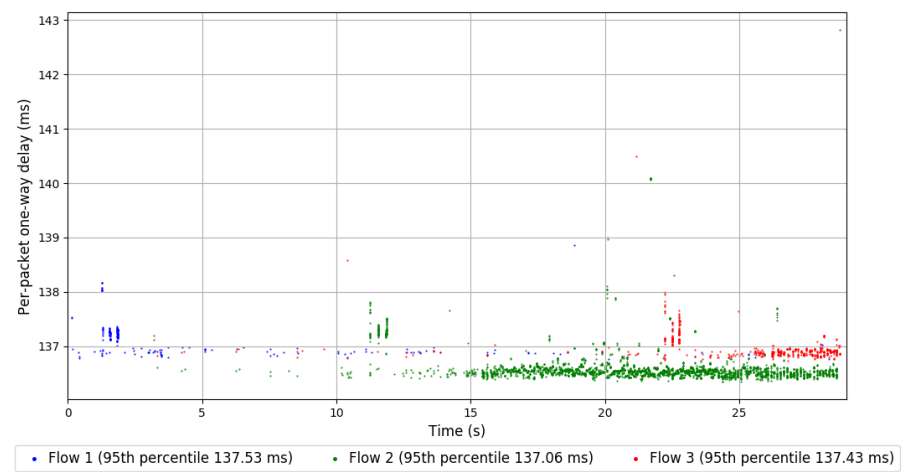
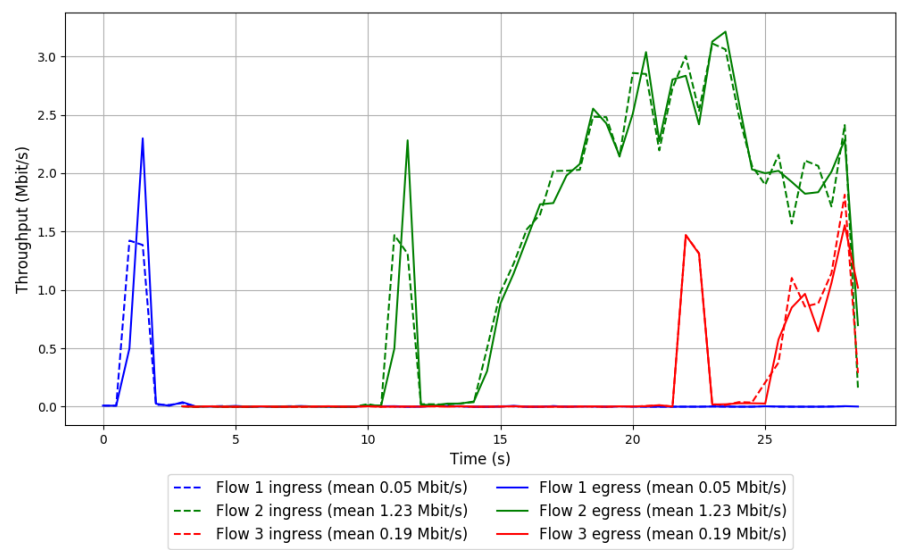
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 137.427 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-01 05:45:52

End at: 2017-09-01 05:46:22

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 137.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 137.993 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.110 ms

Loss rate: 0.00%

-- Flow 3:

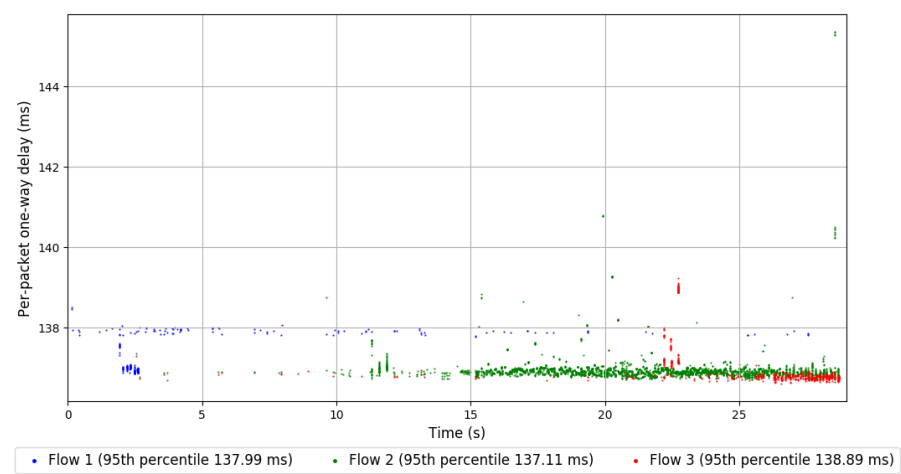
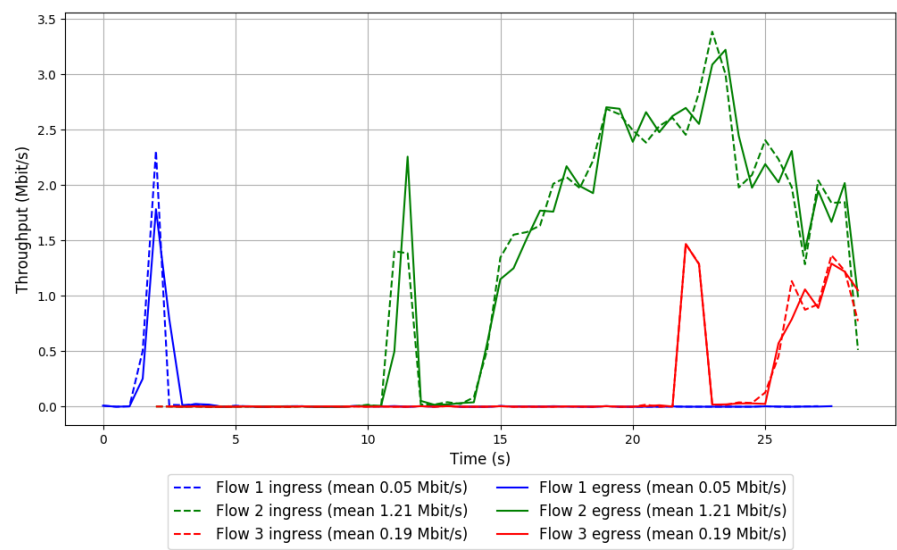
Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 138.887 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-01 06:00:01

End at: 2017-09-01 06:00:31

# Below is generated by plot.py at 2017-09-01 07:56:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 137.222 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 137.401 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 137.215 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

