

Pantheon Report

Generated at 2017-11-22 08:22:48 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

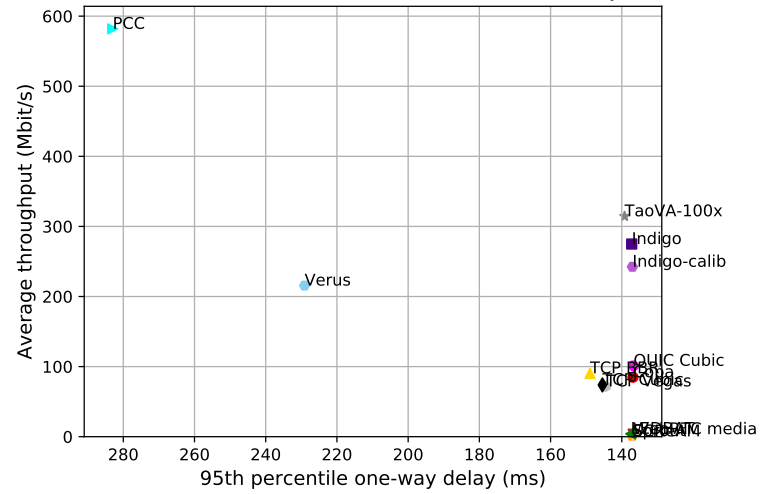
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

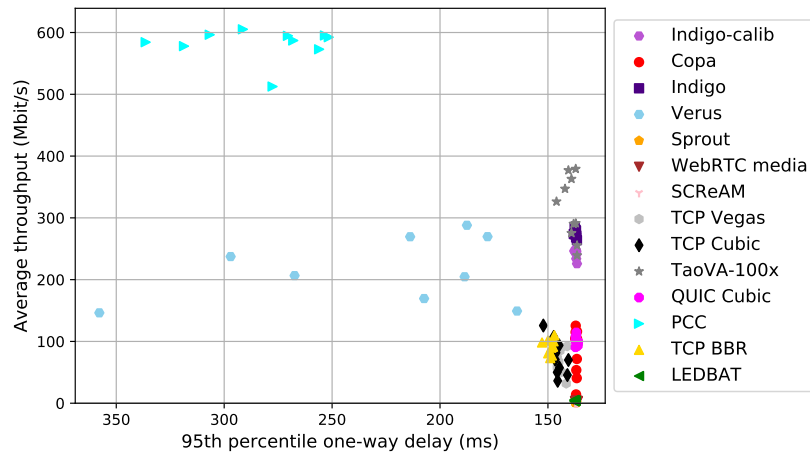
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
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 @ f1a14bffe749737437f61b1eae30b267cde681
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	40.02	49.98	53.00	148.41	148.50	151.12	0.02	0.01	0.05
TCP Cubic	10	29.48	48.04	40.55	531.49	145.17	145.61	0.04	0.16	0.08
LEDBAT	7	2.54	1.83	1.09	137.52	137.52	137.02	0.48	0.24	0.21
PCC	10	463.88	150.94	56.03	291.36	241.81	241.60	4.93	3.08	3.34
QUIC Cubic	10	54.25	52.60	37.53	136.42	136.43	136.43	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	136.68	136.44	136.71	0.00	0.00	0.00
WebRTC media	10	2.00	1.21	0.39	136.54	136.60	136.80	0.00	0.00	0.00
Sprout	10	0.43	0.46	0.47	136.98	136.96	137.02	0.00	0.00	0.00
TaoVA-100x	10	172.36	162.10	134.66	138.27	139.12	146.84	0.00	0.01	0.08
TCP Vegas	10	31.04	43.07	36.76	141.42	143.66	145.18	0.02	0.01	0.02
Verus	9	133.82	91.68	66.29	238.47	195.49	214.18	1.79	0.49	0.28
Copa	10	54.03	37.05	24.94	136.83	136.84	136.70	0.01	0.02	0.00
Indigo	10	147.69	137.62	113.03	136.98	137.53	137.83	0.01	0.00	0.01
Indigo-calib	10	127.34	124.12	103.62	136.88	137.22	137.50	0.00	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-11-22 04:33:42

End at: 2017-11-22 04:34:12

Below is generated by plot.py at 2017-11-22 07:33:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.08 Mbit/s

95th percentile per-packet one-way delay: 148.935 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 36.03 Mbit/s

95th percentile per-packet one-way delay: 149.341 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 146.420 ms

Loss rate: 0.02%

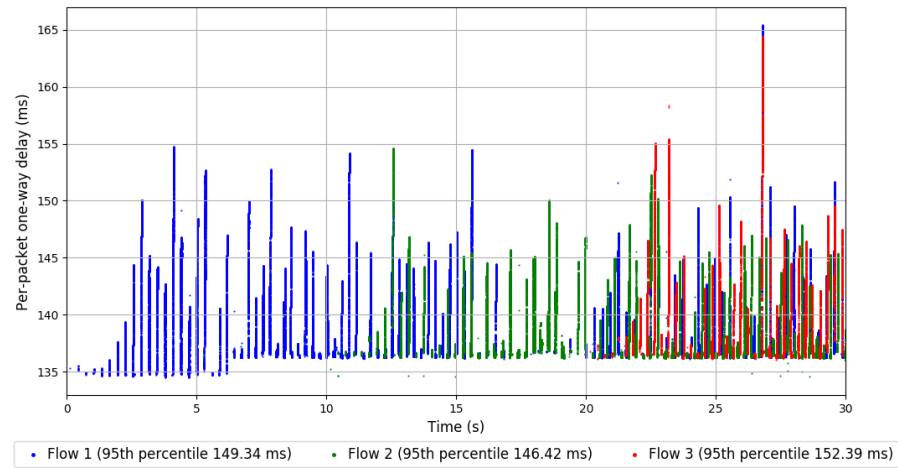
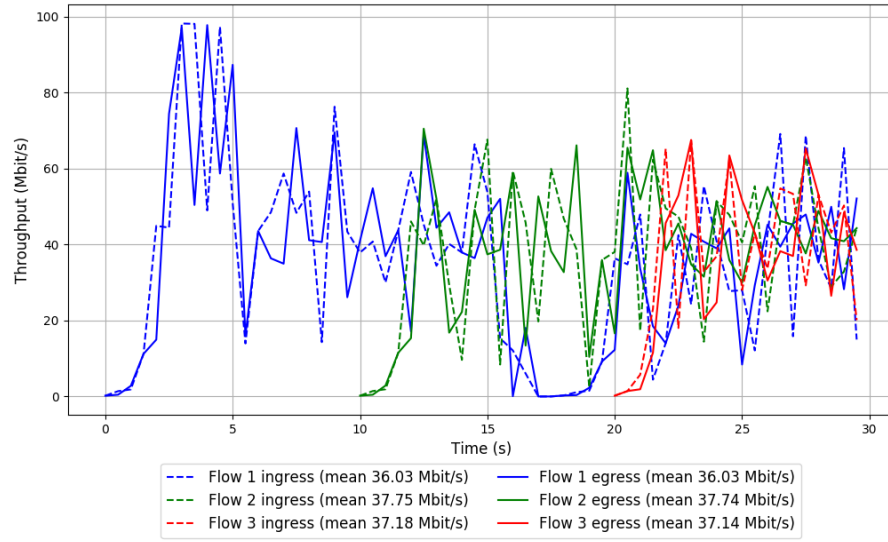
-- Flow 3:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 152.394 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-22 04:48:15

End at: 2017-11-22 04:48:45

Below is generated by plot.py at 2017-11-22 07:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.28 Mbit/s

95th percentile per-packet one-way delay: 152.730 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 38.72 Mbit/s

95th percentile per-packet one-way delay: 152.391 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 152.275 ms

Loss rate: 0.00%

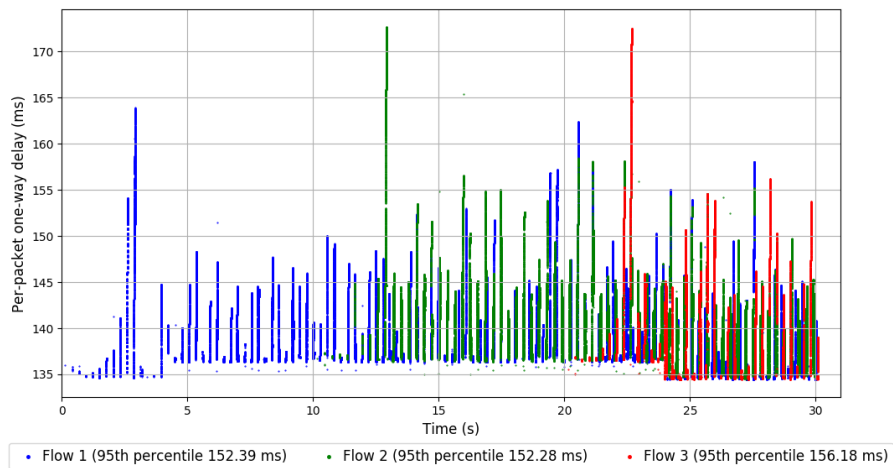
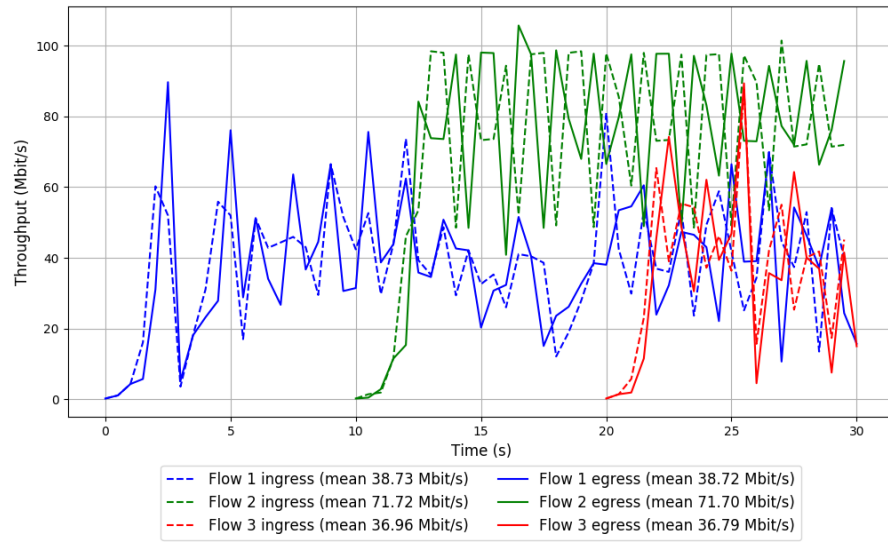
-- Flow 3:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 156.183 ms

Loss rate: 0.45%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-22 05:02:13

End at: 2017-11-22 05:02:43

Below is generated by plot.py at 2017-11-22 07:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.80 Mbit/s

95th percentile per-packet one-way delay: 149.860 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 149.415 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.16 Mbit/s

95th percentile per-packet one-way delay: 150.481 ms

Loss rate: 0.01%

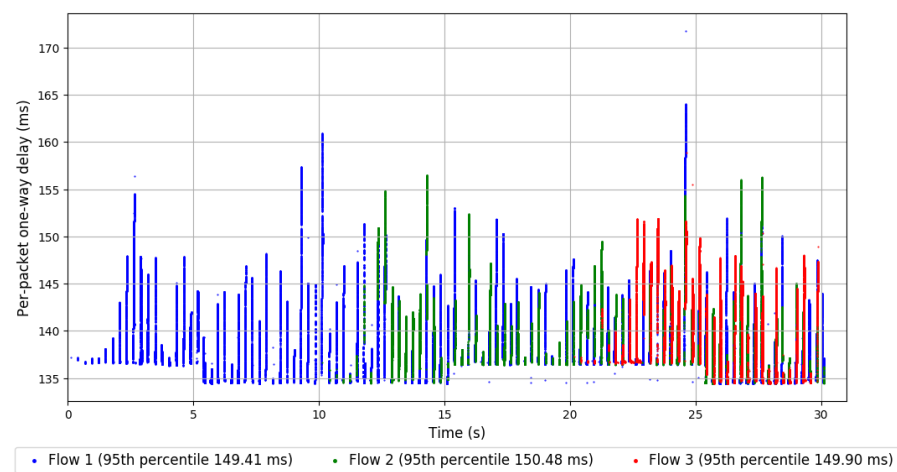
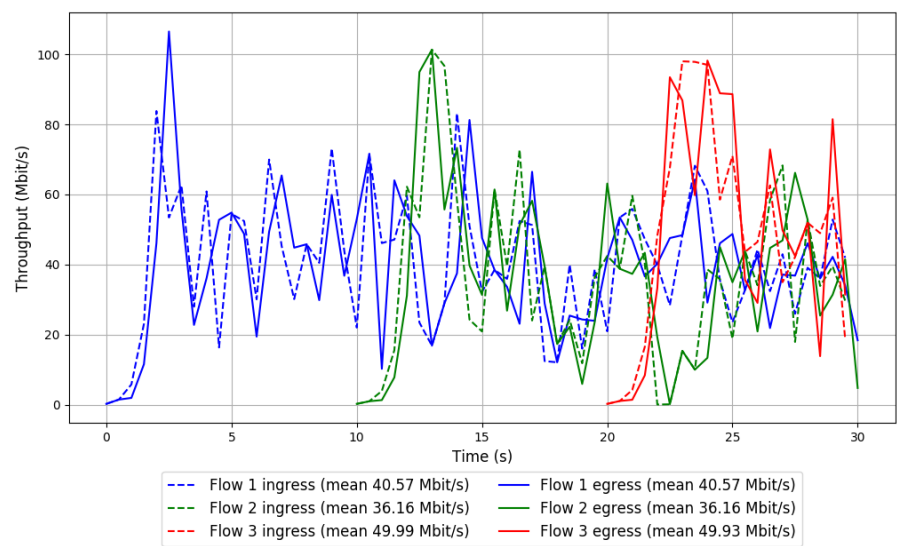
-- Flow 3:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 149.902 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-22 05:16:37

End at: 2017-11-22 05:17:07

Below is generated by plot.py at 2017-11-22 07:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 147.625 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 146.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 147.520 ms

Loss rate: 0.00%

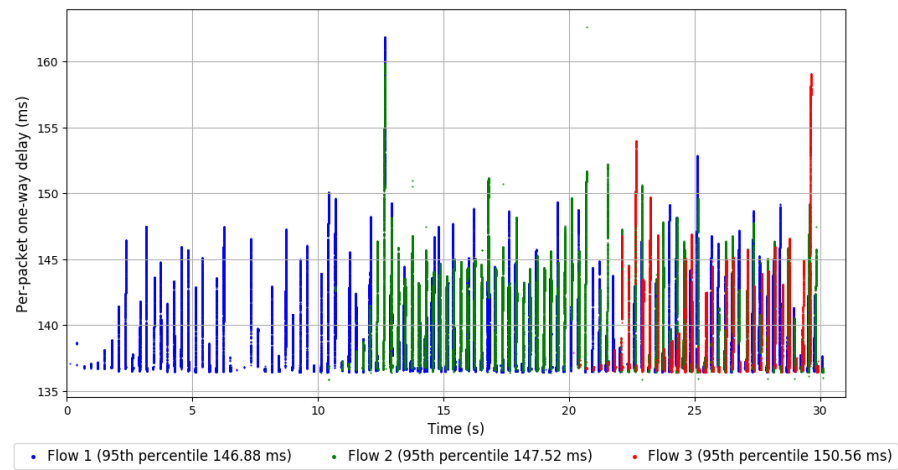
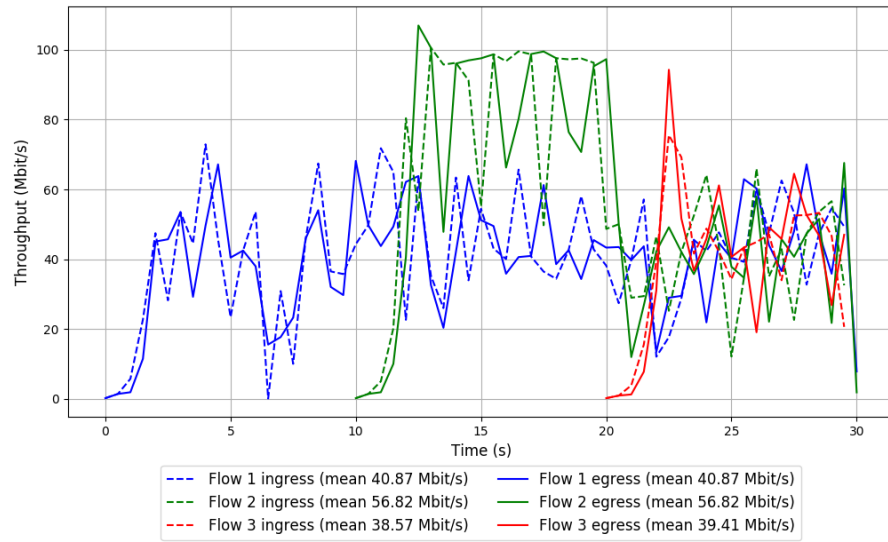
-- Flow 3:

Average throughput: 39.41 Mbit/s

95th percentile per-packet one-way delay: 150.560 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-22 05:31:00

End at: 2017-11-22 05:31:30

Below is generated by plot.py at 2017-11-22 07:33:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.96 Mbit/s

95th percentile per-packet one-way delay: 148.402 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 147.395 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 148.439 ms

Loss rate: 0.02%

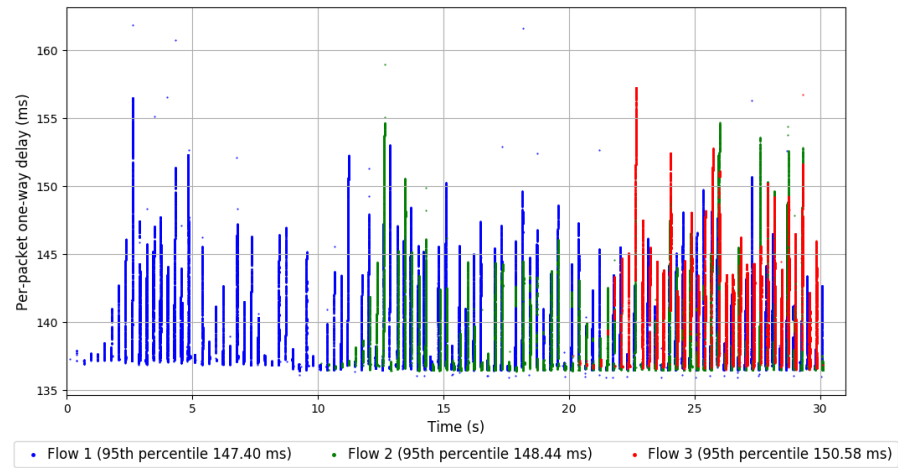
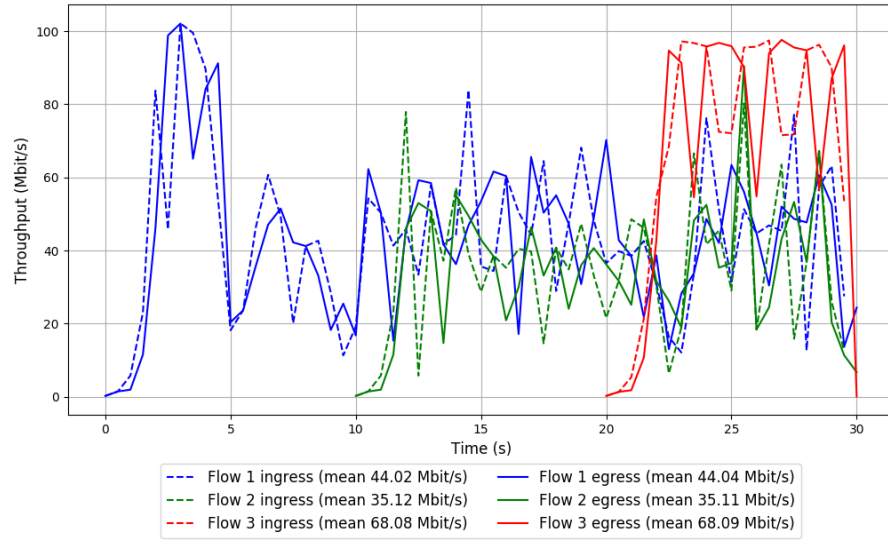
-- Flow 3:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 150.579 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-22 05:45:17

End at: 2017-11-22 05:45:47

Below is generated by plot.py at 2017-11-22 07:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.97 Mbit/s

95th percentile per-packet one-way delay: 147.014 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 34.87 Mbit/s

95th percentile per-packet one-way delay: 146.839 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 79.37 Mbit/s

95th percentile per-packet one-way delay: 145.576 ms

Loss rate: 0.00%

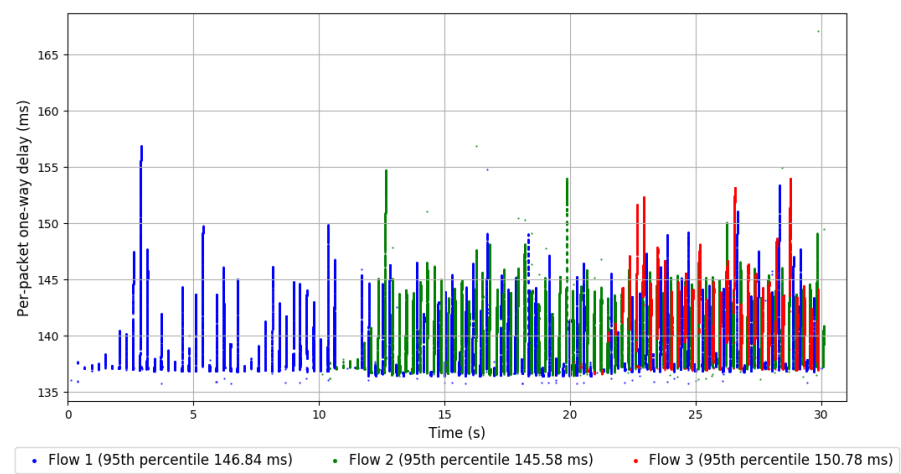
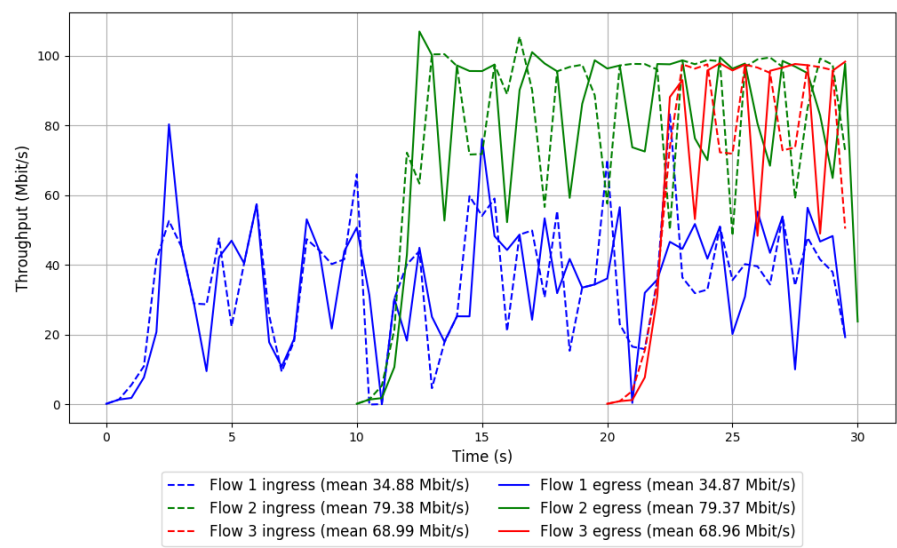
-- Flow 3:

Average throughput: 68.96 Mbit/s

95th percentile per-packet one-way delay: 150.781 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-22 05:59:33

End at: 2017-11-22 06:00:03

Below is generated by plot.py at 2017-11-22 07:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 150.013 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 41.55 Mbit/s

95th percentile per-packet one-way delay: 148.214 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 149.325 ms

Loss rate: 0.00%

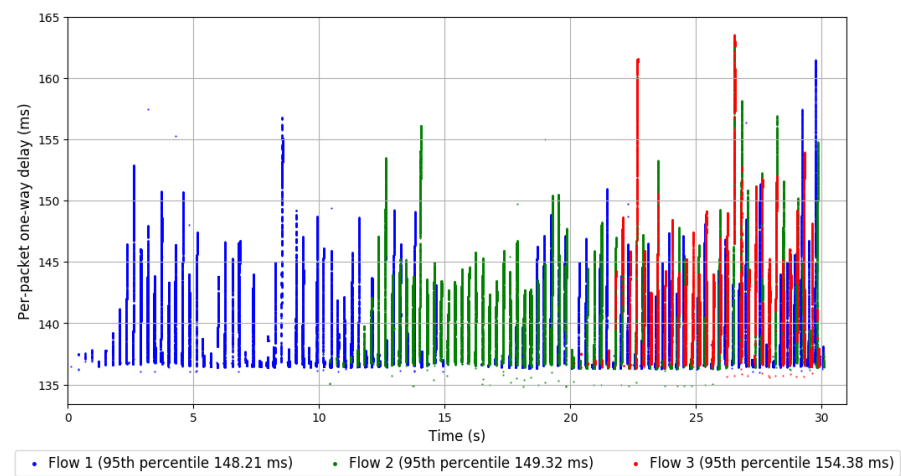
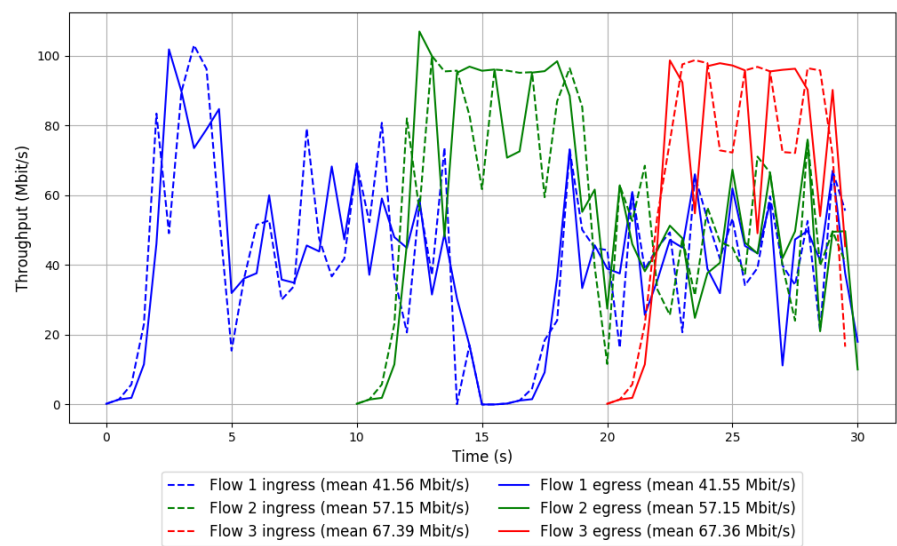
-- Flow 3:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 154.385 ms

Loss rate: 0.03%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-22 06:13:38

End at: 2017-11-22 06:14:08

Below is generated by plot.py at 2017-11-22 07:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 148.193 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 42.07 Mbit/s

95th percentile per-packet one-way delay: 149.070 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 146.070 ms

Loss rate: 0.01%

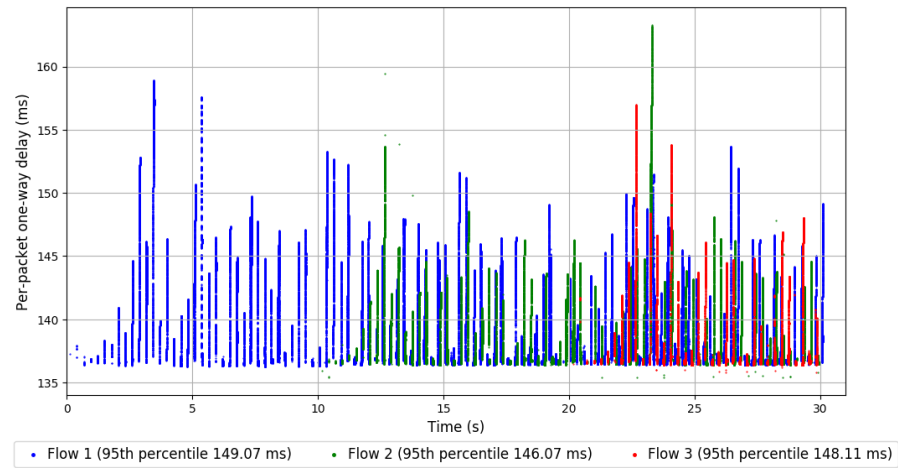
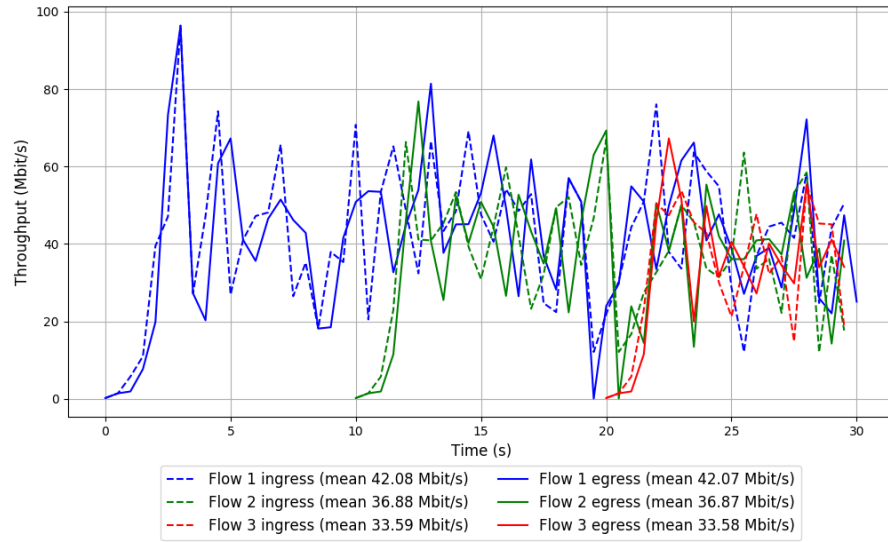
-- Flow 3:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 148.110 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-22 06:27:55

End at: 2017-11-22 06:28:25

Below is generated by plot.py at 2017-11-22 07:34:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.33 Mbit/s

95th percentile per-packet one-way delay: 149.168 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 147.119 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 150.527 ms

Loss rate: 0.00%

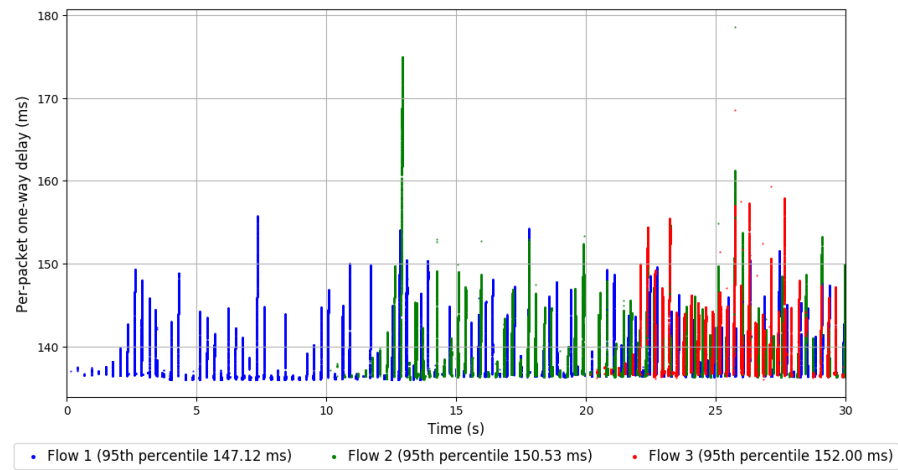
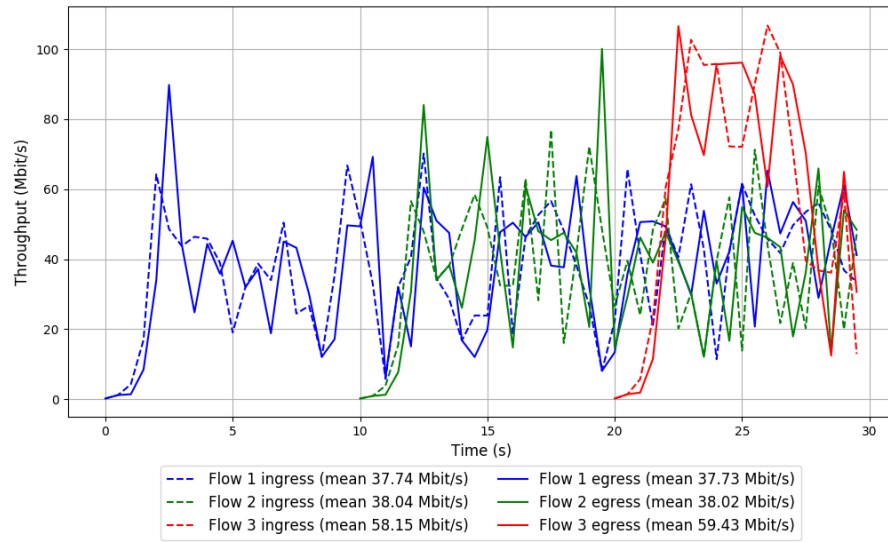
-- Flow 3:

Average throughput: 59.43 Mbit/s

95th percentile per-packet one-way delay: 151.998 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-22 06:41:56

End at: 2017-11-22 06:42:26

Below is generated by plot.py at 2017-11-22 07:35:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.24 Mbit/s

95th percentile per-packet one-way delay: 147.388 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.76 Mbit/s

95th percentile per-packet one-way delay: 147.488 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 50.86 Mbit/s

95th percentile per-packet one-way delay: 148.408 ms

Loss rate: 0.01%

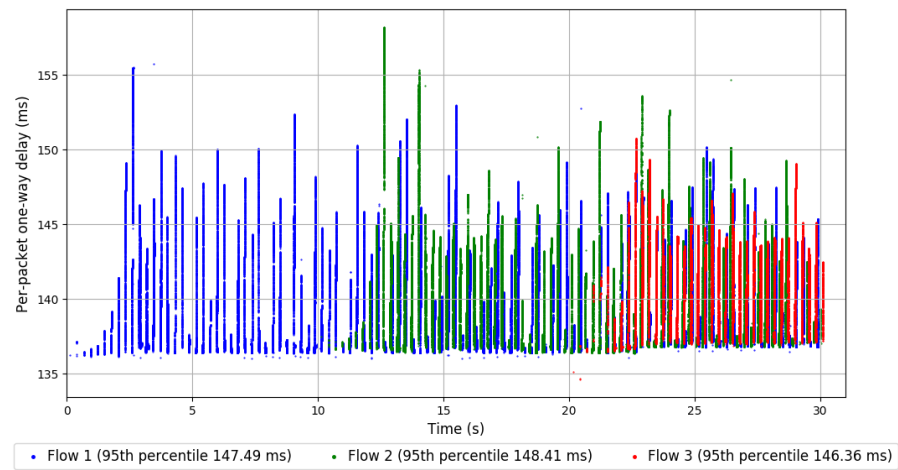
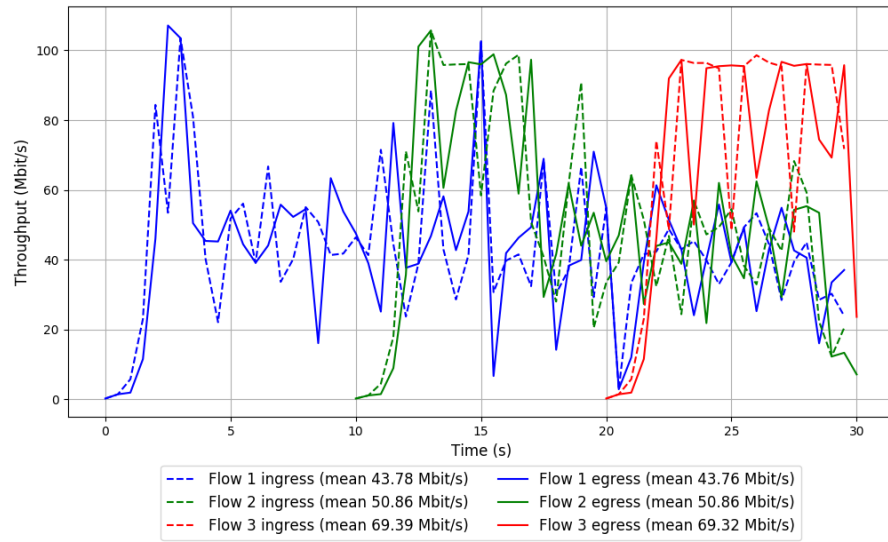
-- Flow 3:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 146.358 ms

Loss rate: 0.03%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-22 04:34:38

End at: 2017-11-22 04:35:08

Below is generated by plot.py at 2017-11-22 07:35:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 140.510 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 140.676 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.13 Mbit/s

95th percentile per-packet one-way delay: 140.524 ms

Loss rate: 0.00%

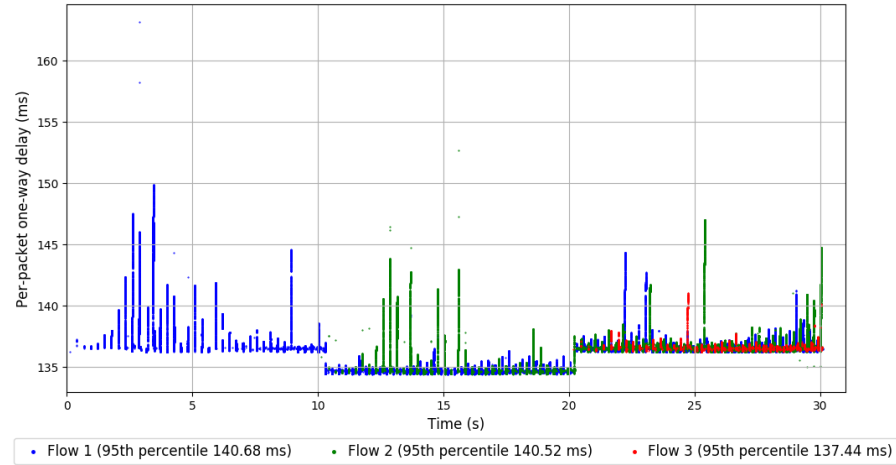
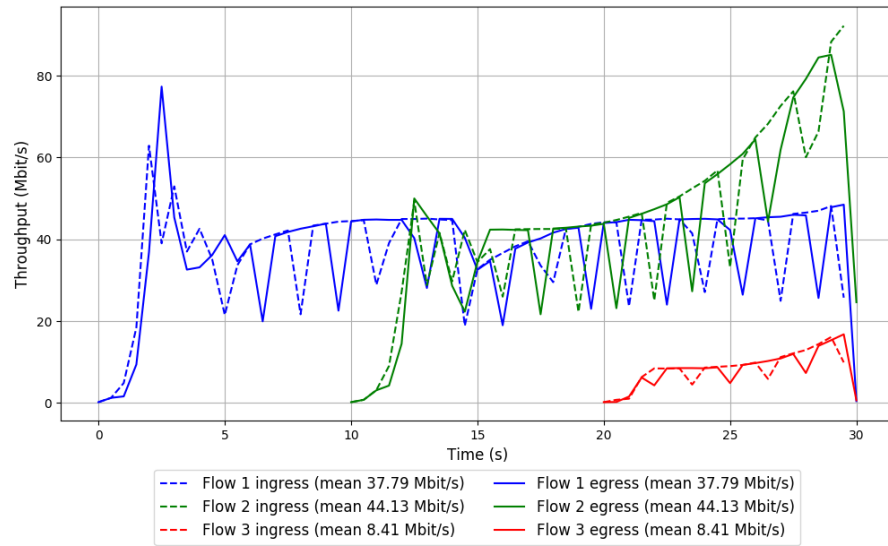
-- Flow 3:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 137.438 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-22 04:49:12

End at: 2017-11-22 04:49:42

Below is generated by plot.py at 2017-11-22 07:35:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 145.489 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 4029.300 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.81 Mbit/s

95th percentile per-packet one-way delay: 142.995 ms

Loss rate: 1.55%

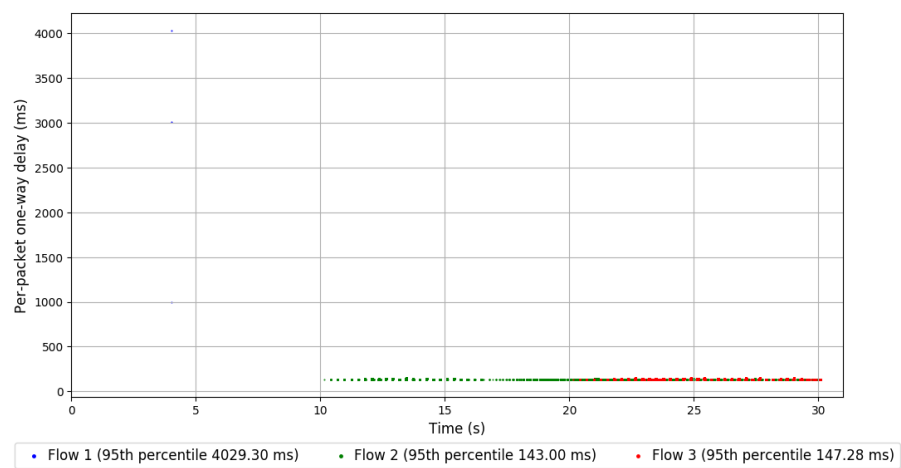
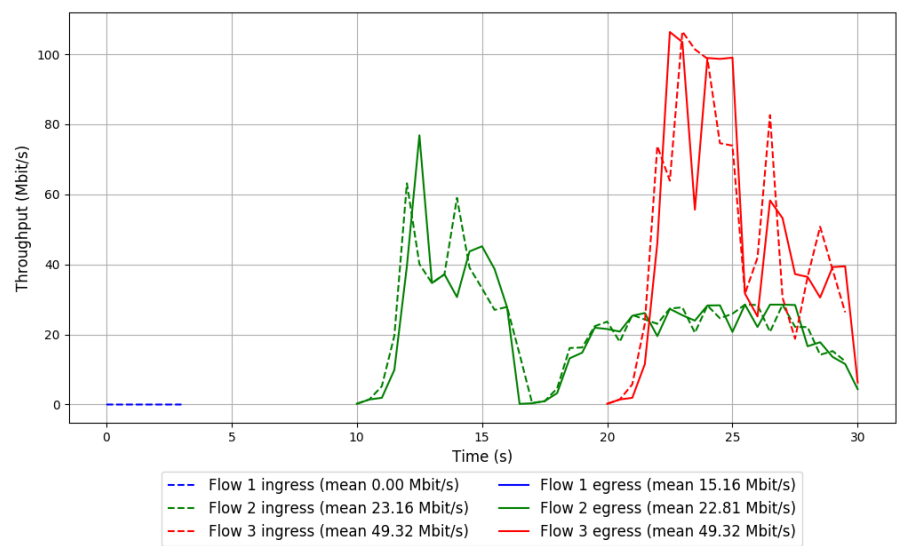
-- Flow 3:

Average throughput: 49.32 Mbit/s

95th percentile per-packet one-way delay: 147.283 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-22 05:03:09

End at: 2017-11-22 05:03:39

Below is generated by plot.py at 2017-11-22 07:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.72 Mbit/s

95th percentile per-packet one-way delay: 152.122 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 151.153 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 152.318 ms

Loss rate: 0.00%

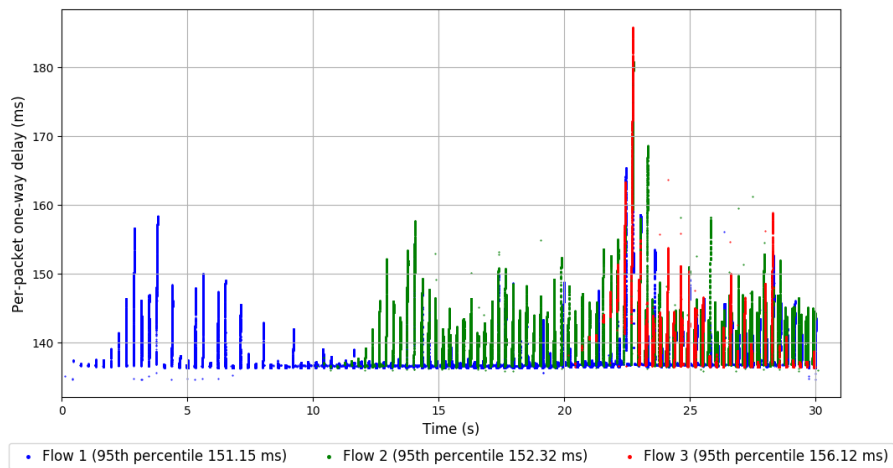
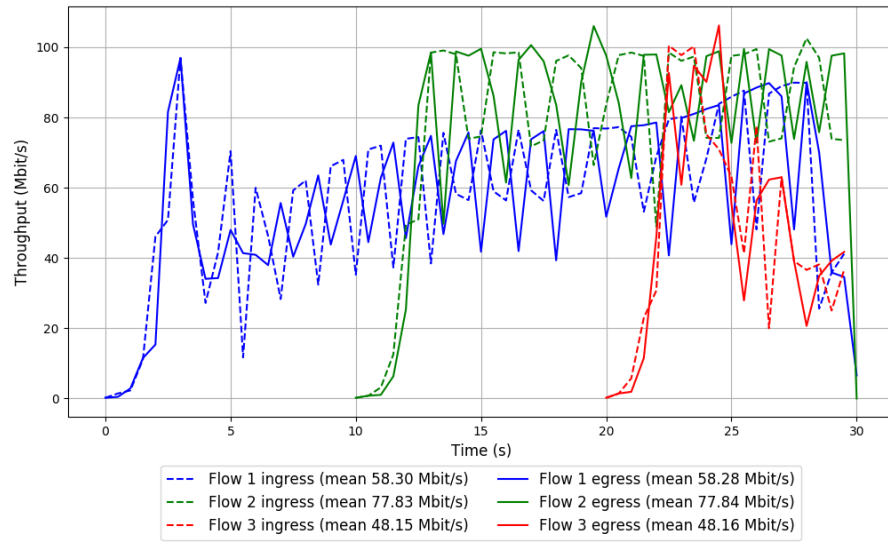
-- Flow 3:

Average throughput: 48.16 Mbit/s

95th percentile per-packet one-way delay: 156.117 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-22 05:17:34

End at: 2017-11-22 05:18:04

Below is generated by plot.py at 2017-11-22 07:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 146.582 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 139.475 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 146.255 ms

Loss rate: 0.01%

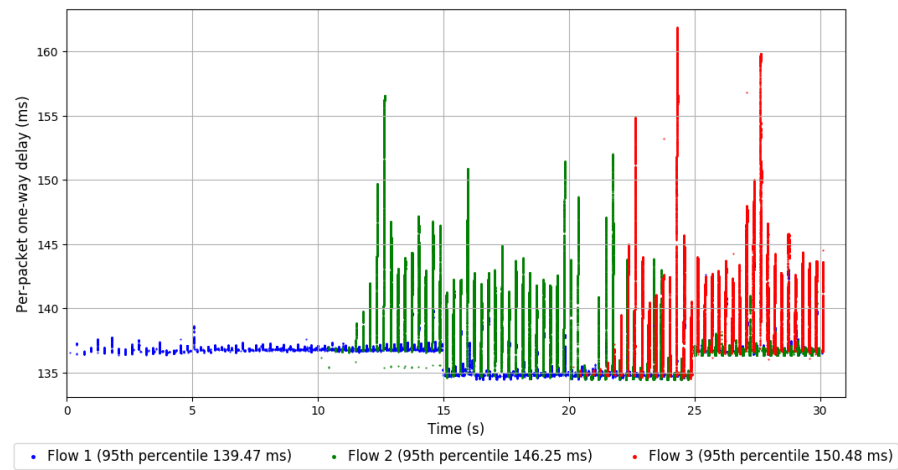
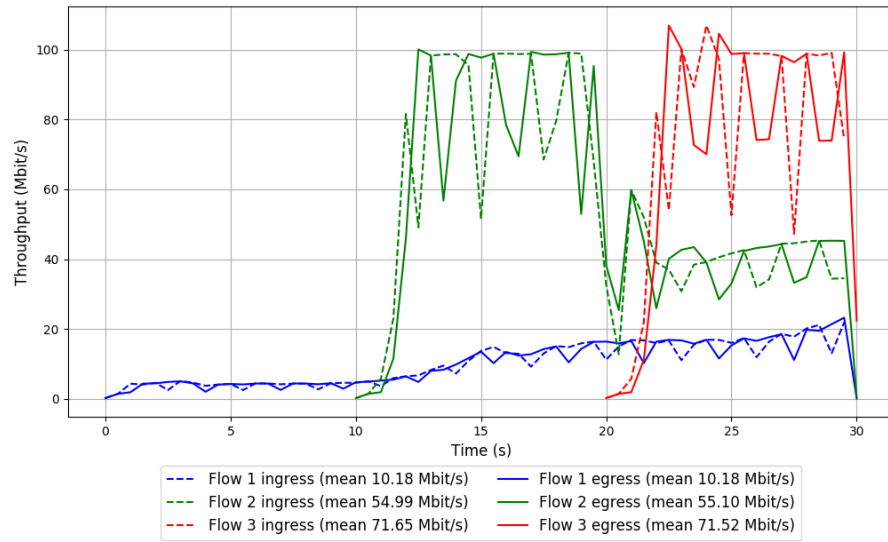
-- Flow 3:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 150.479 ms

Loss rate: 0.17%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-22 05:31:56

End at: 2017-11-22 05:32:26

Below is generated by plot.py at 2017-11-22 07:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 145.704 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 10.34 Mbit/s

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

Loss rate: 0.09%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 148.474 ms

Loss rate: 0.00%

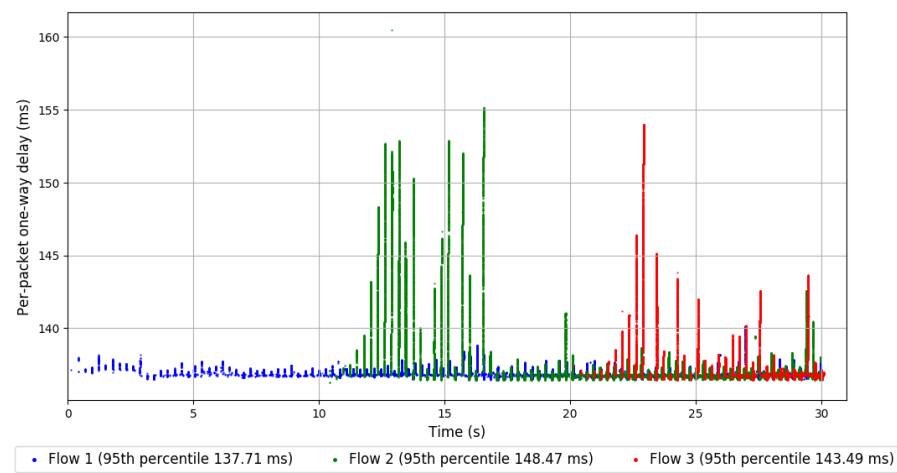
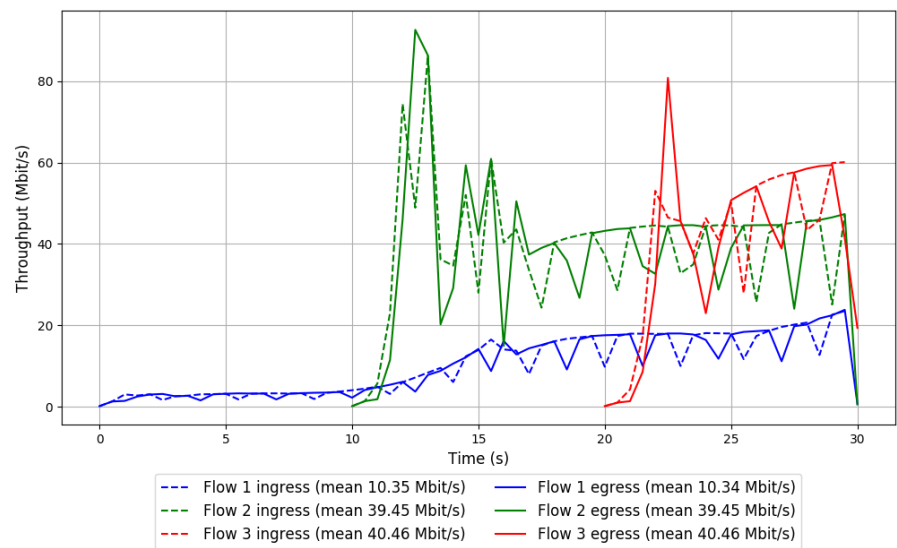
-- Flow 3:

Average throughput: 40.46 Mbit/s

95th percentile per-packet one-way delay: 143.491 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-22 05:46:14

End at: 2017-11-22 05:46:44

Below is generated by plot.py at 2017-11-22 07:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.71 Mbit/s

95th percentile per-packet one-way delay: 146.270 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.65 Mbit/s

95th percentile per-packet one-way delay: 144.602 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 146.275 ms

Loss rate: 0.00%

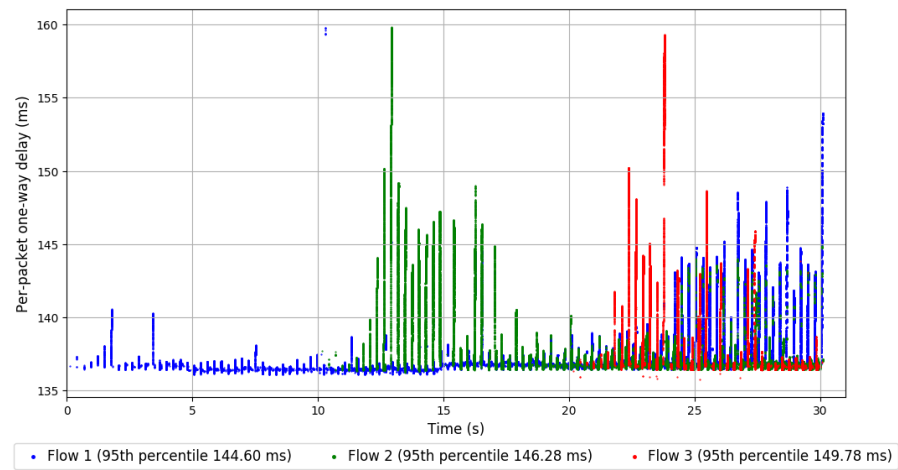
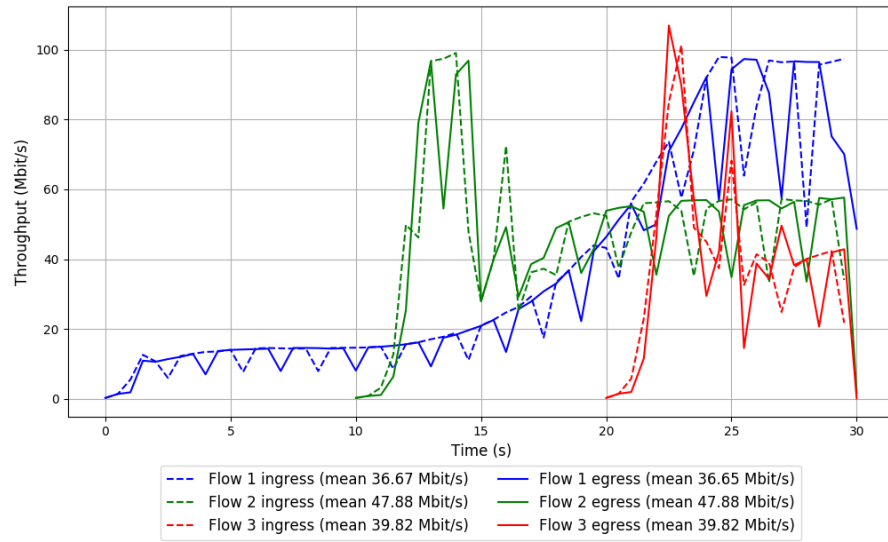
-- Flow 3:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 149.784 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-22 06:00:29

End at: 2017-11-22 06:00:59

Below is generated by plot.py at 2017-11-22 07:36:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.54 Mbit/s

95th percentile per-packet one-way delay: 140.974 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 137.492 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.44 Mbit/s

95th percentile per-packet one-way delay: 140.880 ms

Loss rate: 0.02%

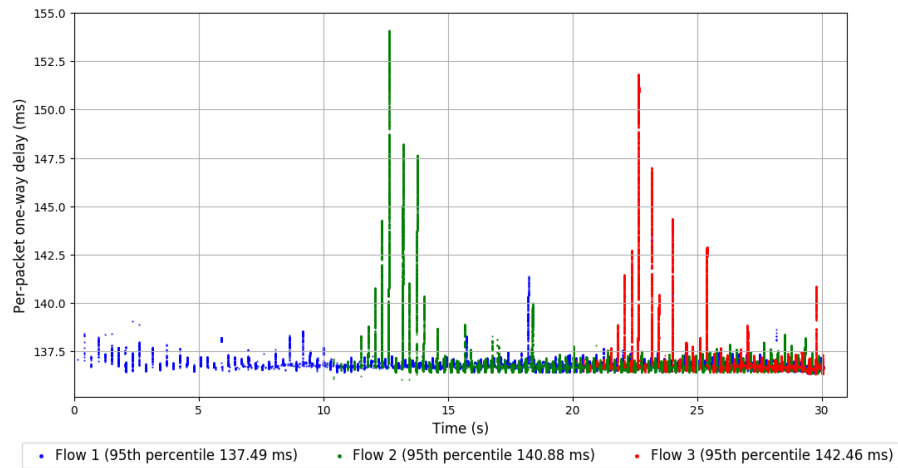
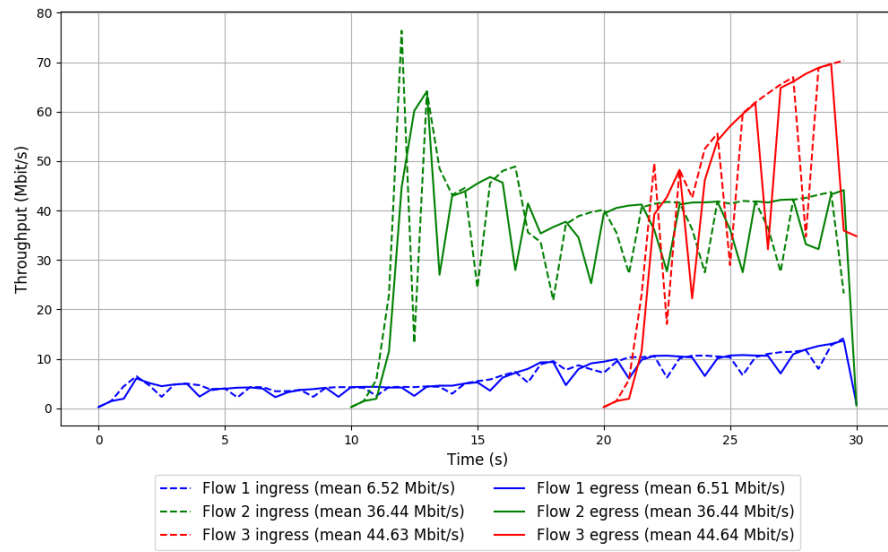
-- Flow 3:

Average throughput: 44.64 Mbit/s

95th percentile per-packet one-way delay: 142.460 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-22 06:14:33

End at: 2017-11-22 06:15:03

Below is generated by plot.py at 2017-11-22 07:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.68 Mbit/s

95th percentile per-packet one-way delay: 144.817 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 143.637 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 146.864 ms

Loss rate: 0.00%

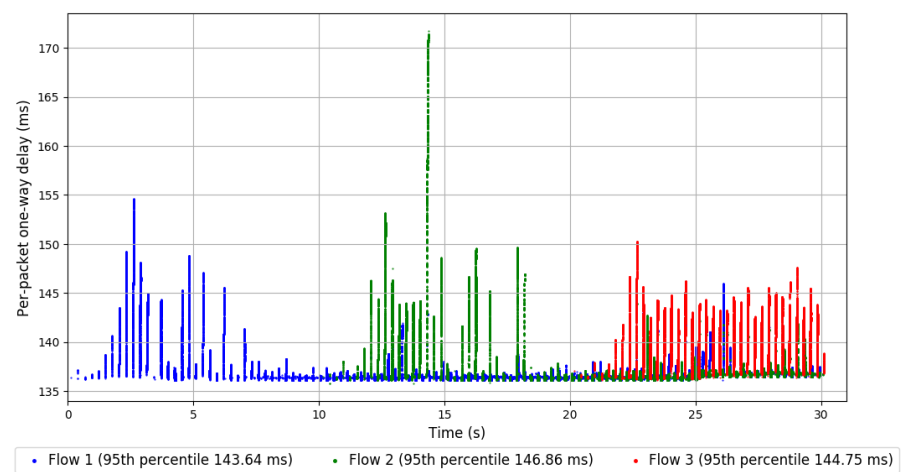
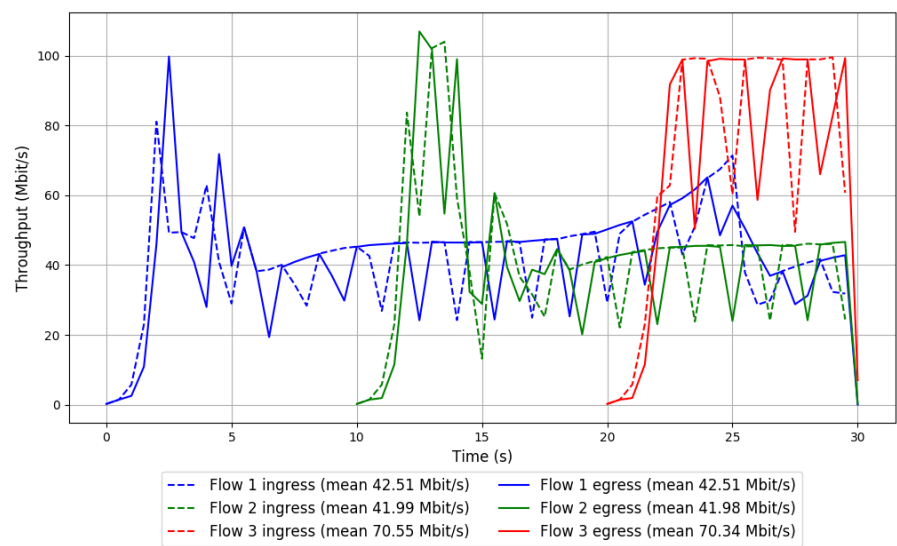
-- Flow 3:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 144.745 ms

Loss rate: 0.29%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-22 06:28:50

End at: 2017-11-22 06:29:20

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.31 Mbit/s

95th percentile per-packet one-way delay: 147.309 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 150.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 140.970 ms

Loss rate: 0.00%

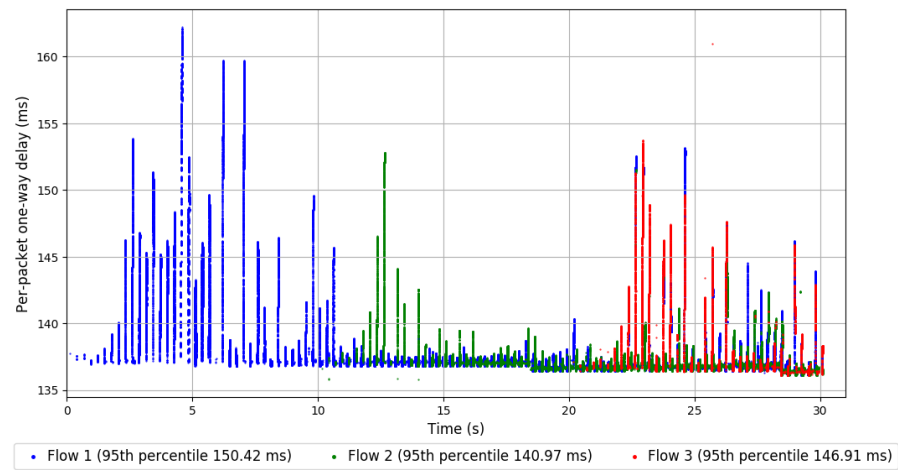
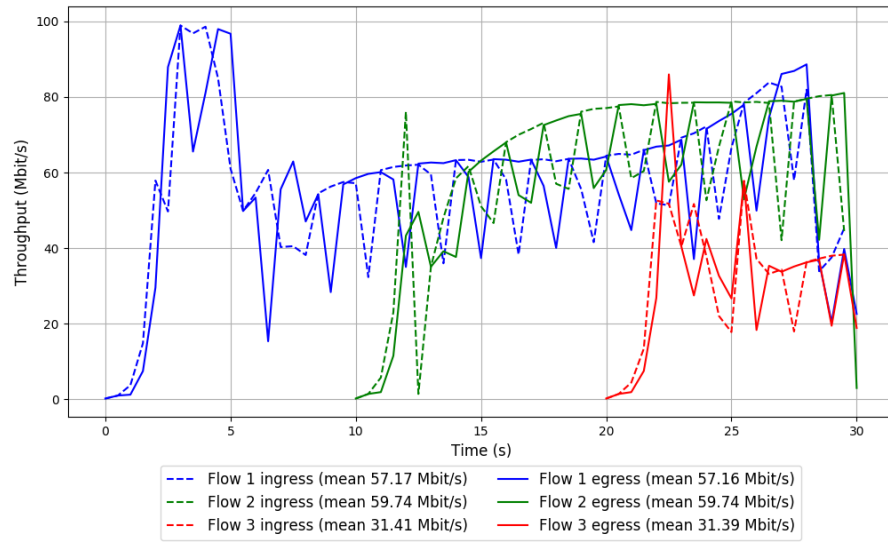
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 146.907 ms

Loss rate: 0.04%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-22 06:42:53

End at: 2017-11-22 06:43:23

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 144.643 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 140.429 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 55.05 Mbit/s

95th percentile per-packet one-way delay: 146.114 ms

Loss rate: 0.03%

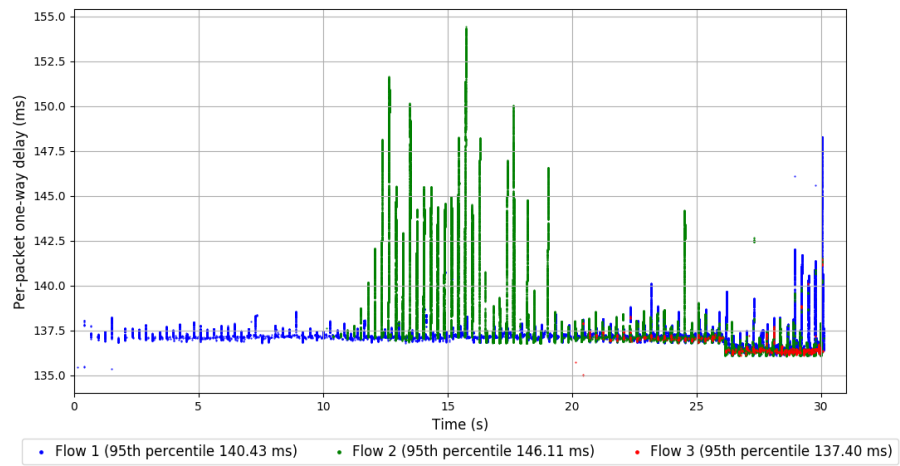
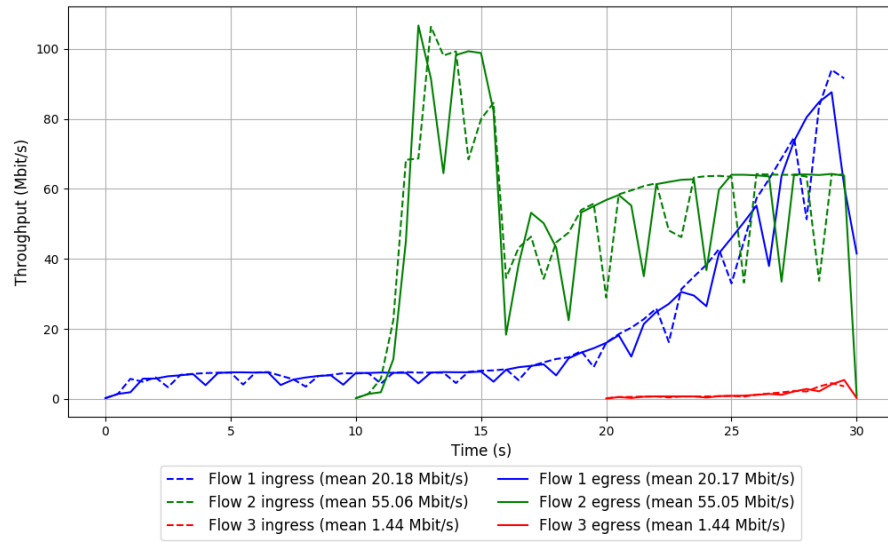
-- Flow 3:

Average throughput: 1.44 Mbit/s

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

Loss rate: 0.34%

Run 10: Report of TCP Cubic — Data Link

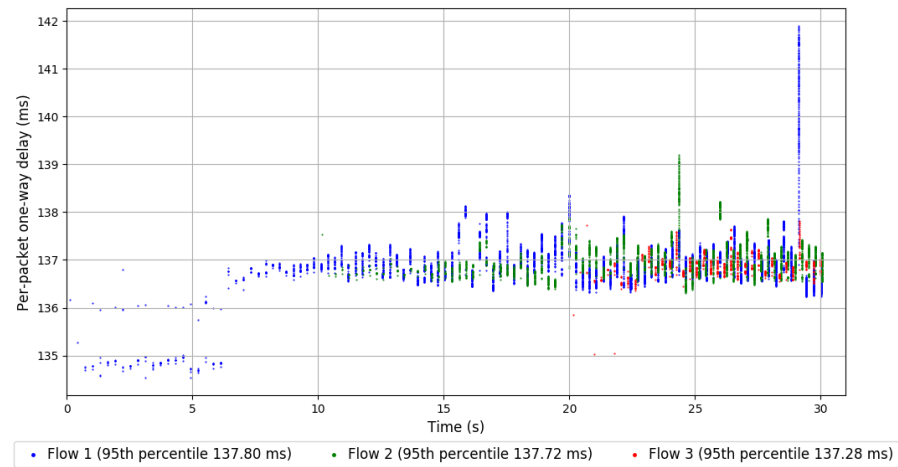
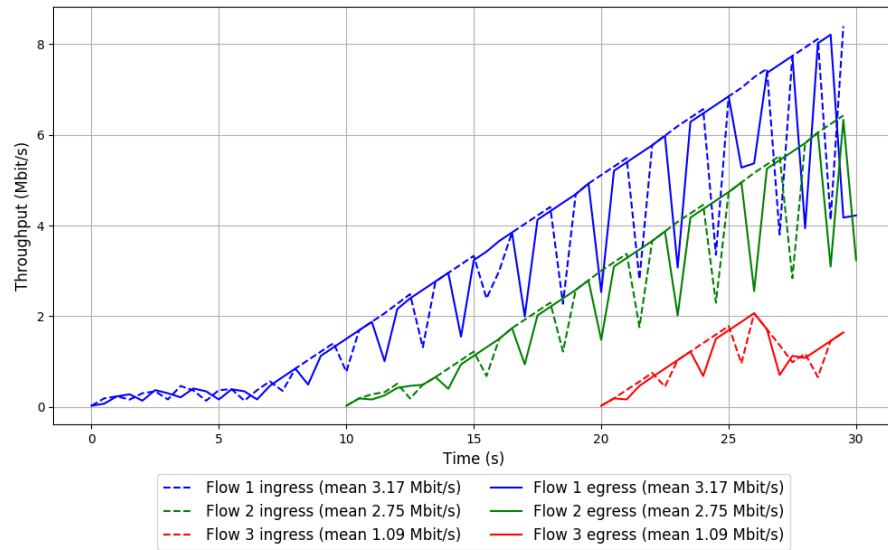


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-22 04:32:52
End at: 2017-11-22 04:33:22

# Below is generated by plot.py at 2017-11-22 07:36:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 137.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 137.798 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 137.723 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 137.283 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

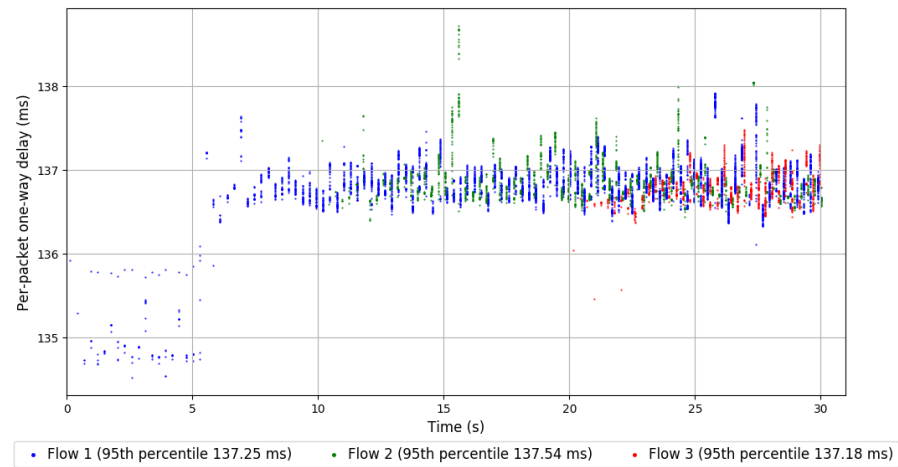
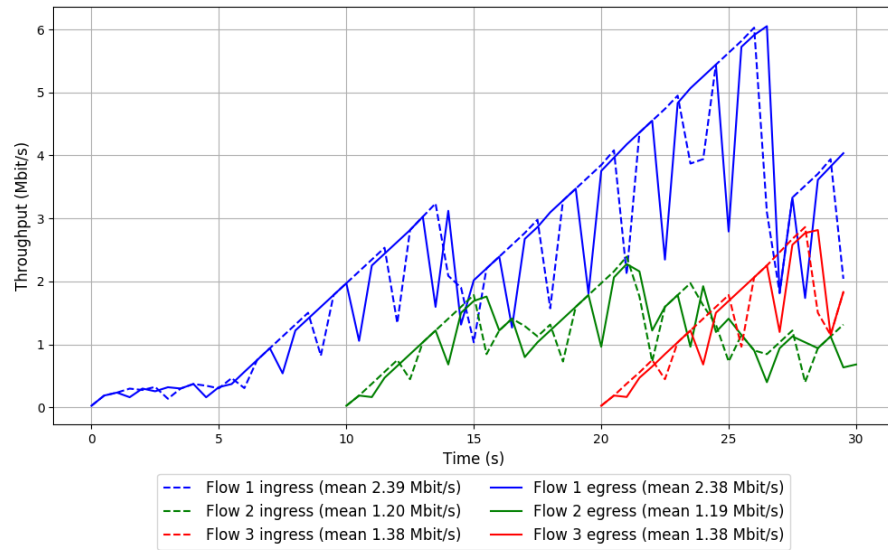


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-22 04:47:23
End at: 2017-11-22 04:47:53

# Below is generated by plot.py at 2017-11-22 07:36:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 137.283 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 137.248 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 137.541 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 137.176 ms
Loss rate: 0.52%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-22 05:01:24

End at: 2017-11-22 05:01:54

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 137.506 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 137.370 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.599 ms

Loss rate: 0.25%

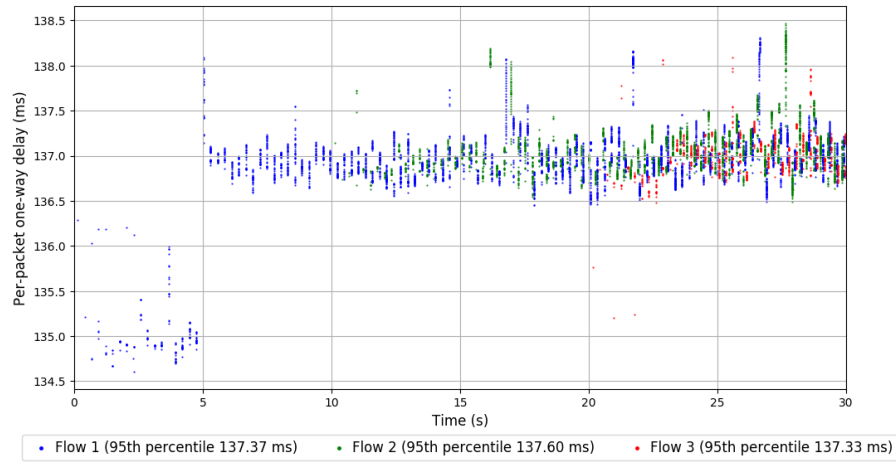
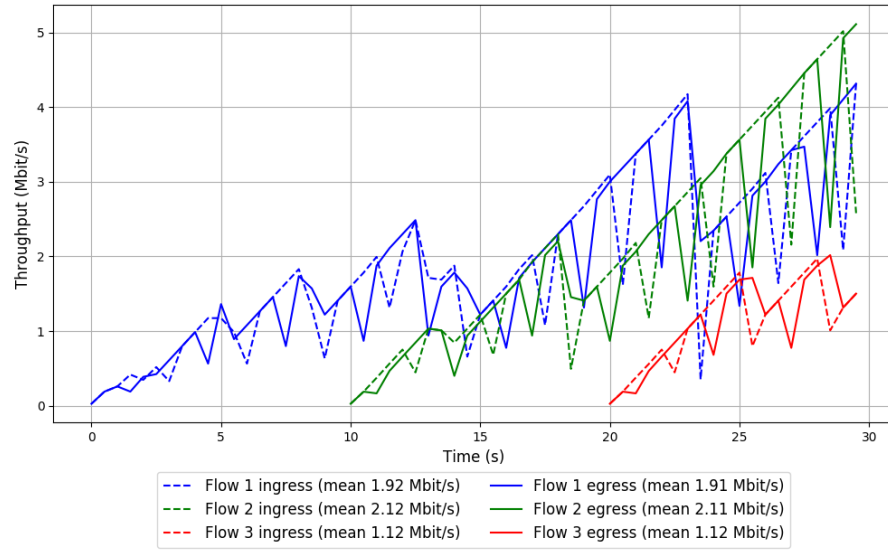
-- Flow 3:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 137.328 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-22 05:15:47

End at: 2017-11-22 05:16:17

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 137.118 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 137.221 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 137.008 ms

Loss rate: 0.00%

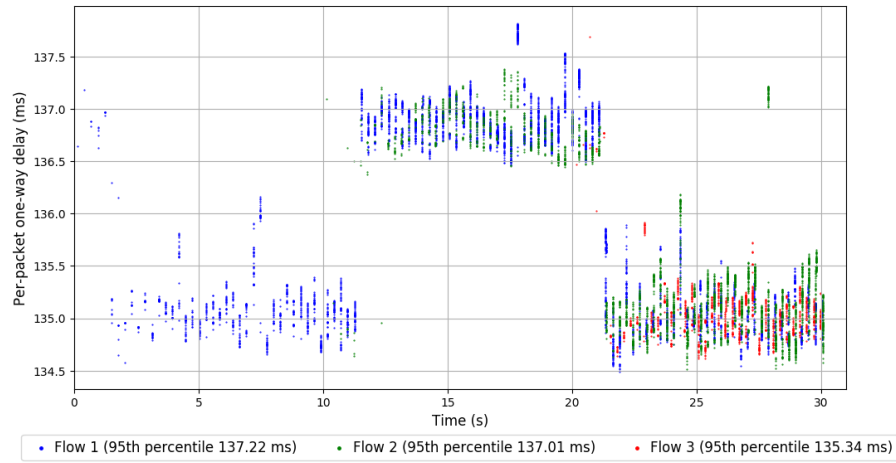
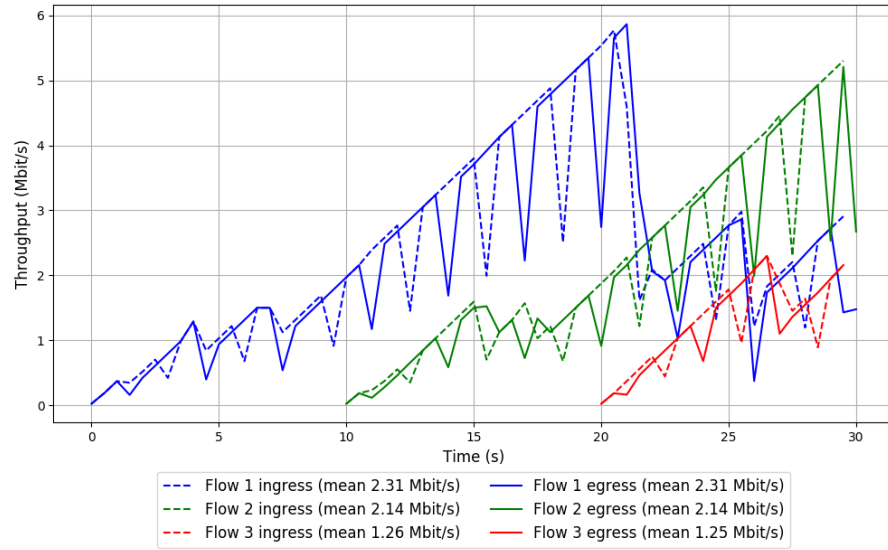
-- Flow 3:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 135.336 ms

Loss rate: 0.47%

Run 4: Report of LEDBAT — Data Link

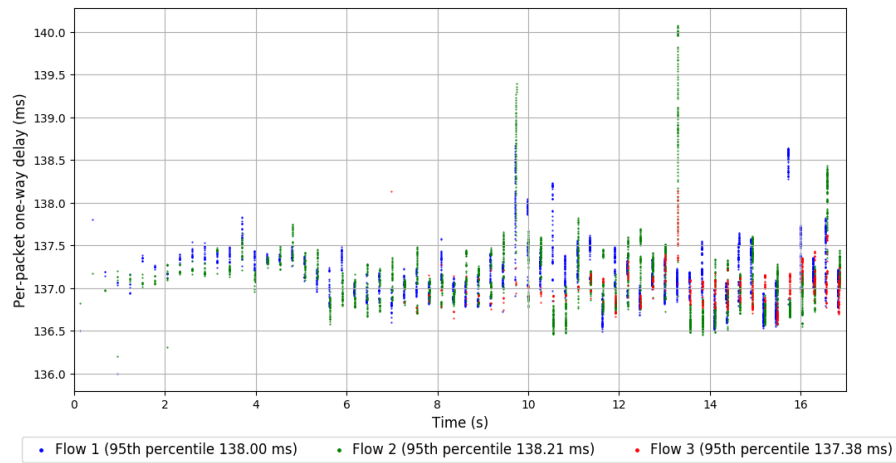
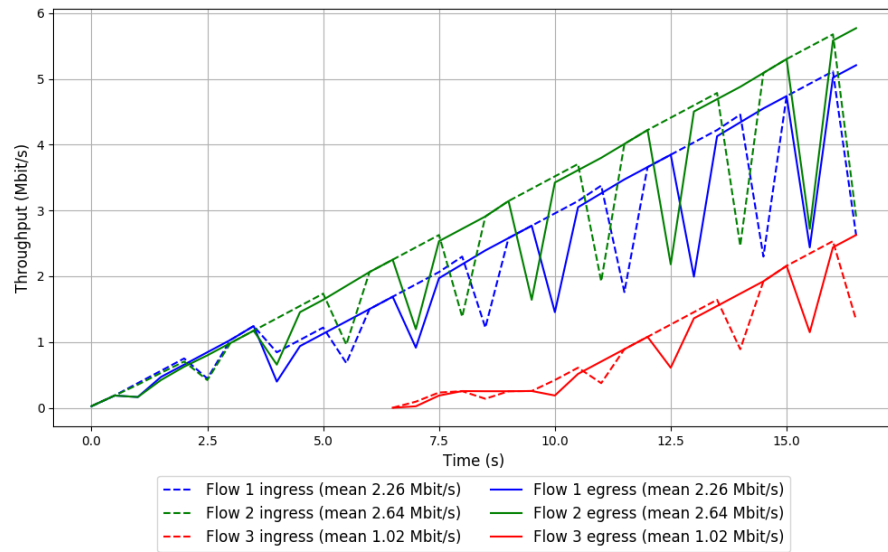


Run 5: Statistics of LEDBAT

Start at: 2017-11-22 05:30:10

End at: 2017-11-22 05:30:40

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-22 05:44:27

End at: 2017-11-22 05:44:57

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 137.752 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 137.777 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 137.704 ms

Loss rate: 0.19%

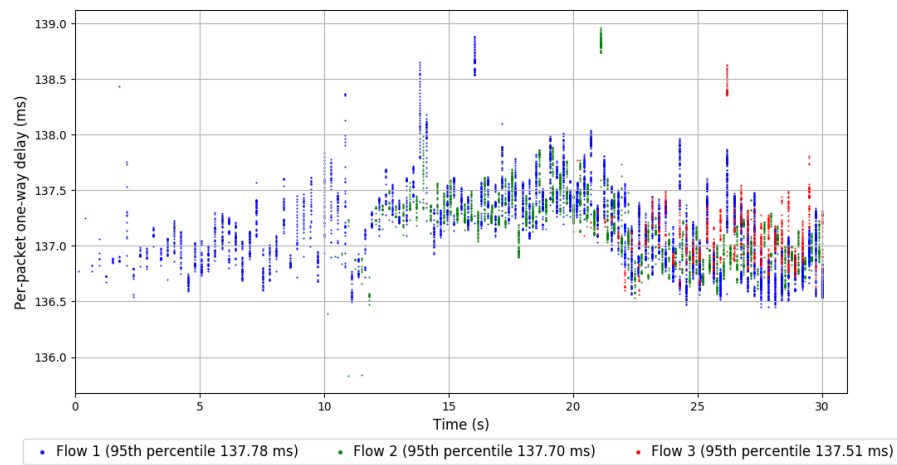
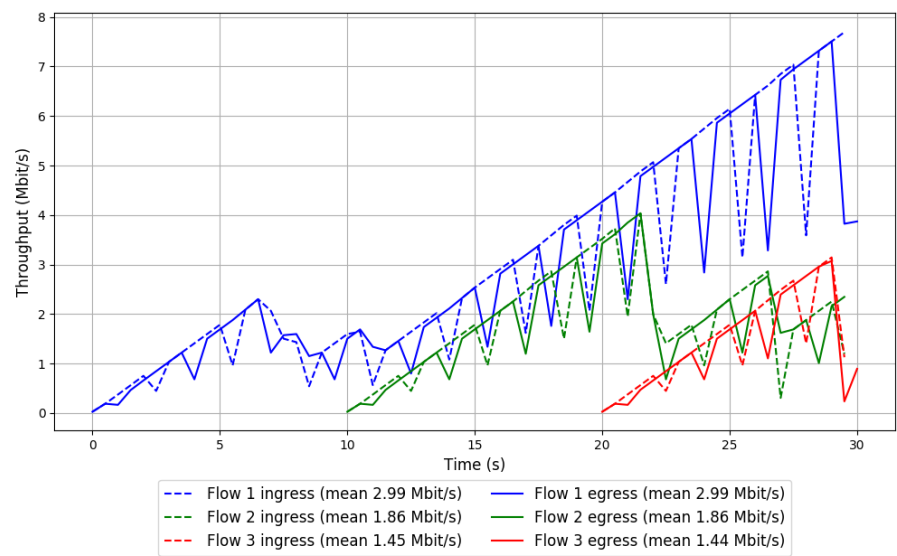
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 137.509 ms

Loss rate: 0.25%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-22 05:58:42

End at: 2017-11-22 05:59:12

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 137.469 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 137.503 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 137.370 ms

Loss rate: 0.00%

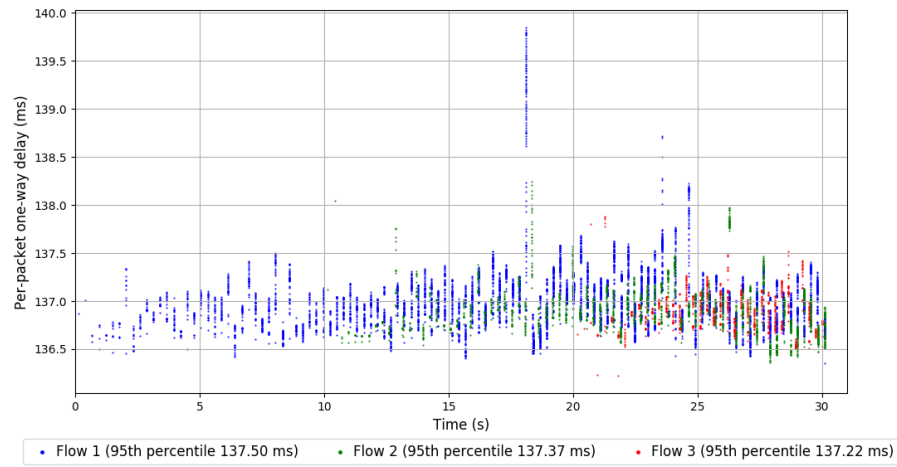
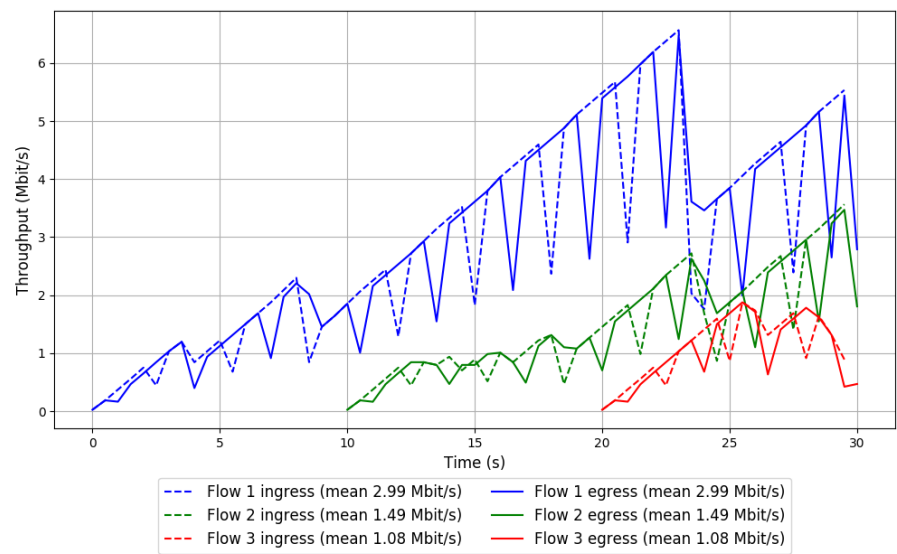
-- Flow 3:

Average throughput: 1.08 Mbit/s

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

Loss rate: 0.22%

Run 7: Report of LEDBAT — Data Link

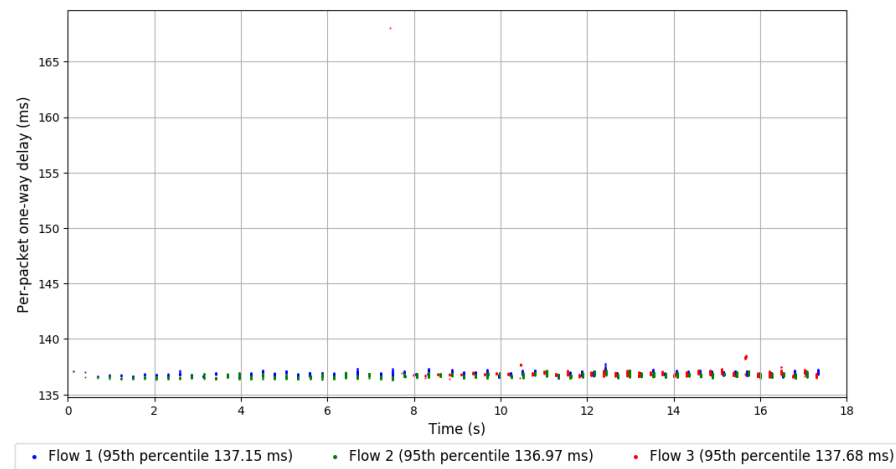
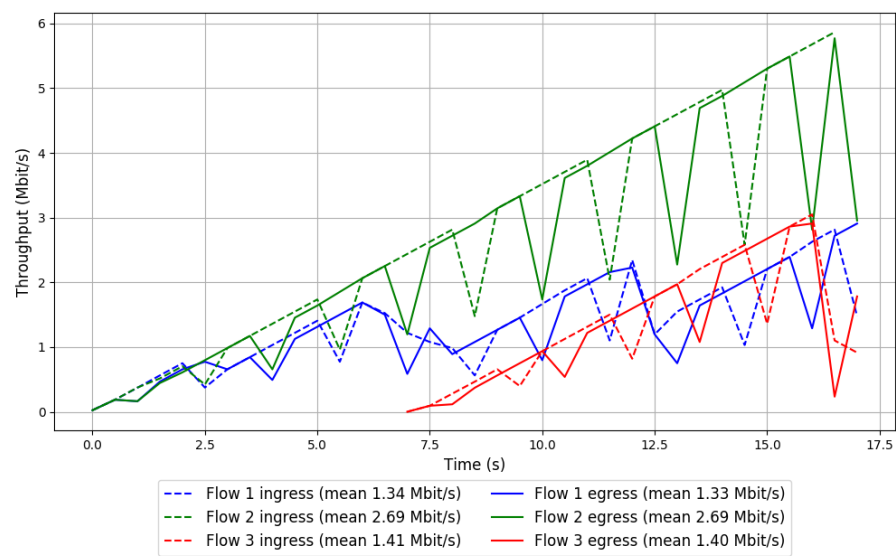


Run 8: Statistics of LEDBAT

Start at: 2017-11-22 06:12:48

End at: 2017-11-22 06:13:18

Run 8: Report of LEDBAT — Data Link

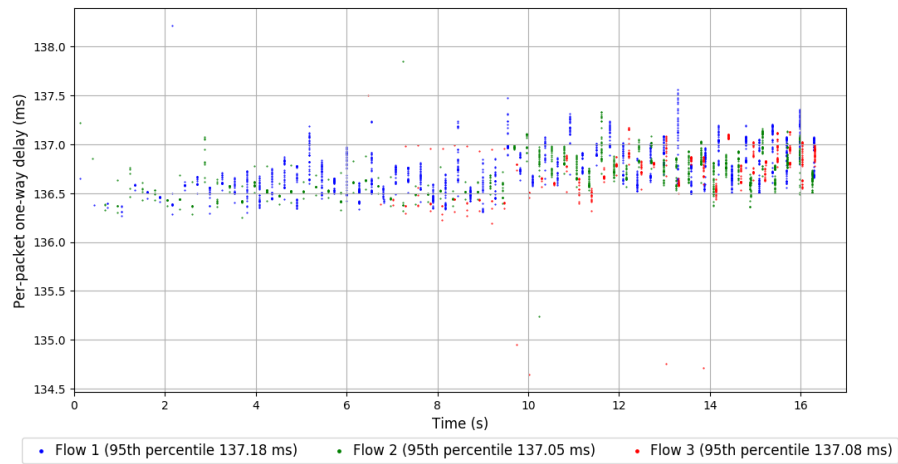
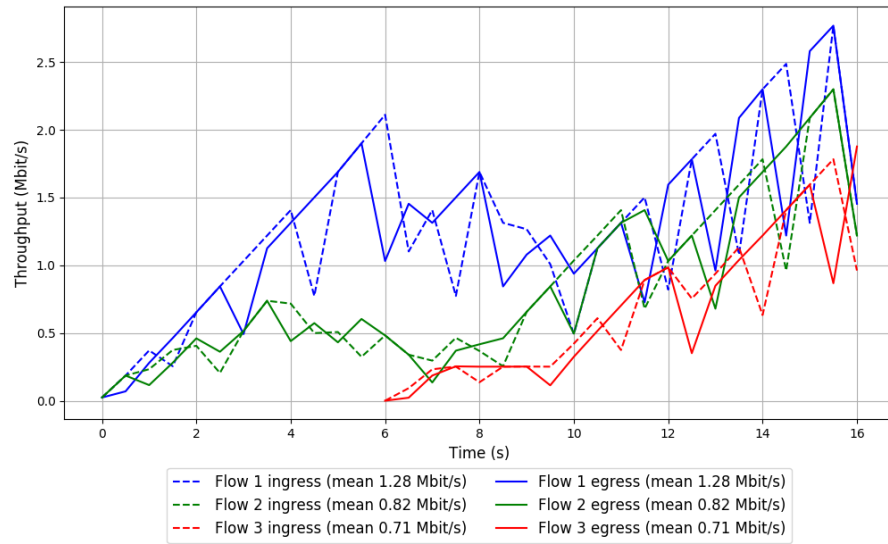


Run 9: Statistics of LEDBAT

Start at: 2017-11-22 06:27:05

End at: 2017-11-22 06:27:35

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-22 06:41:06

End at: 2017-11-22 06:41:36

Below is generated by plot.py at 2017-11-22 07:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 137.707 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 137.716 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 1.24 Mbit/s

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

Loss rate: 0.29%

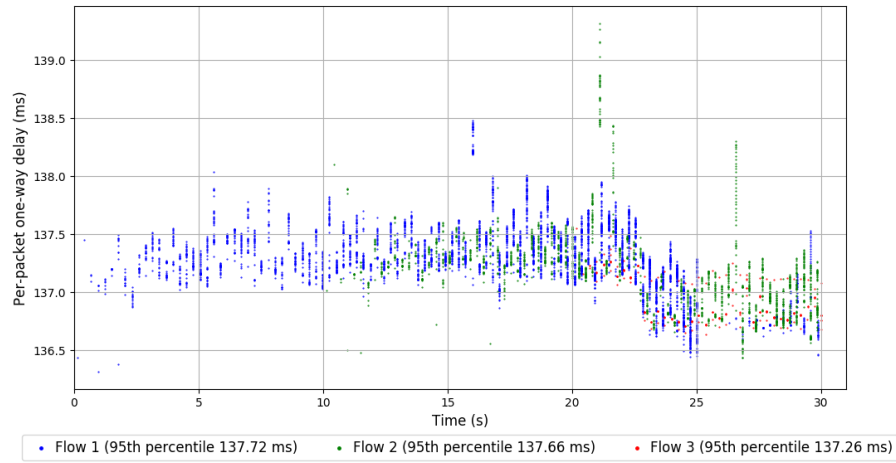
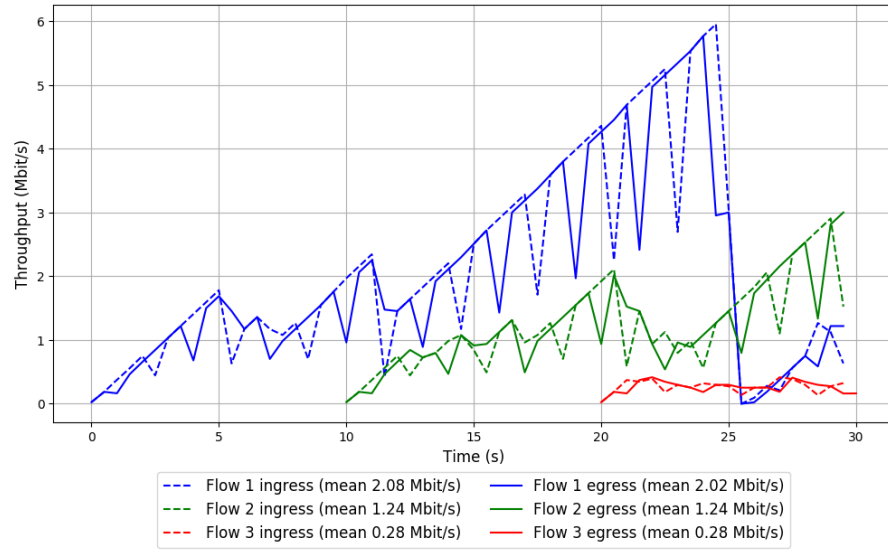
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 137.258 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

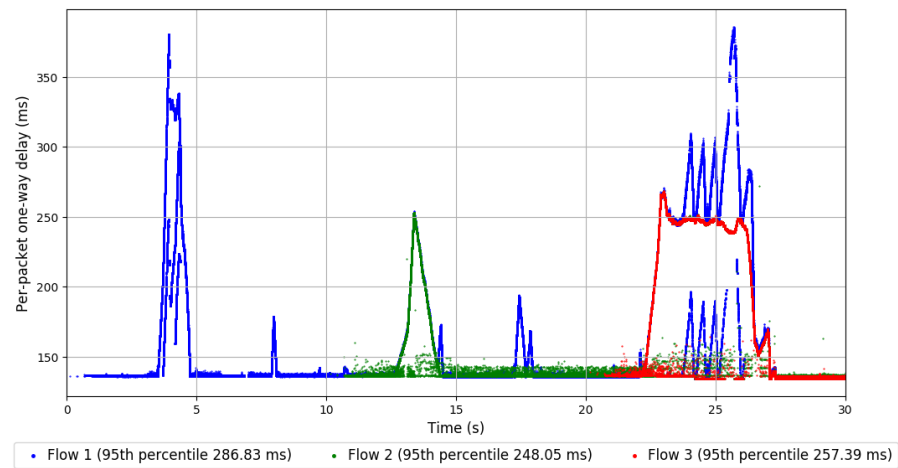
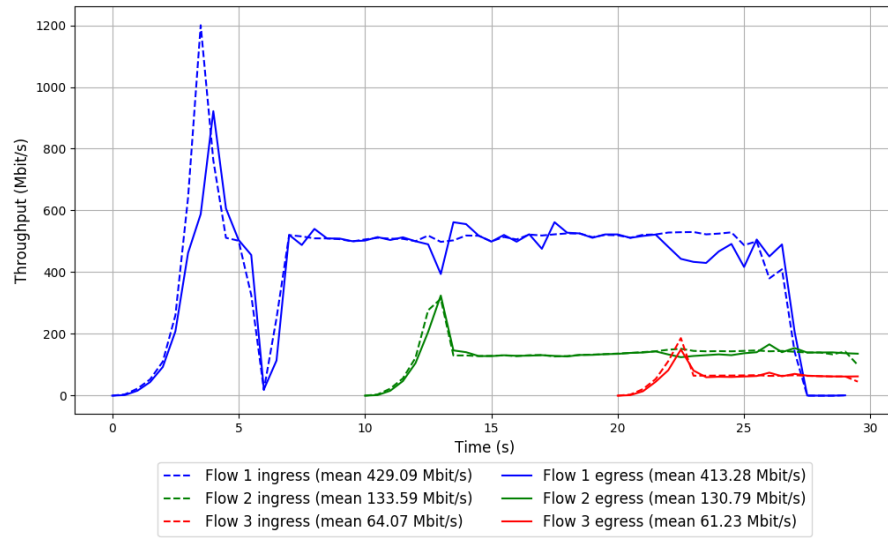


```
Run 1: Statistics of PCC

Start at: 2017-11-22 04:29:24
End at: 2017-11-22 04:29:54

# Below is generated by plot.py at 2017-11-22 07:44:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.58 Mbit/s
95th percentile per-packet one-way delay: 277.568 ms
Loss rate: 3.45%
-- Flow 1:
Average throughput: 413.28 Mbit/s
95th percentile per-packet one-way delay: 286.827 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 130.79 Mbit/s
95th percentile per-packet one-way delay: 248.053 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 257.386 ms
Loss rate: 4.48%
```

Run 1: Report of PCC — Data Link

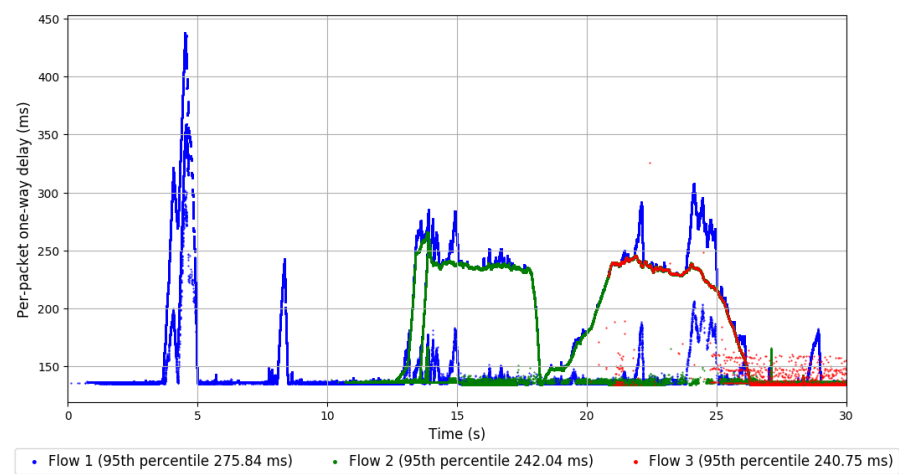
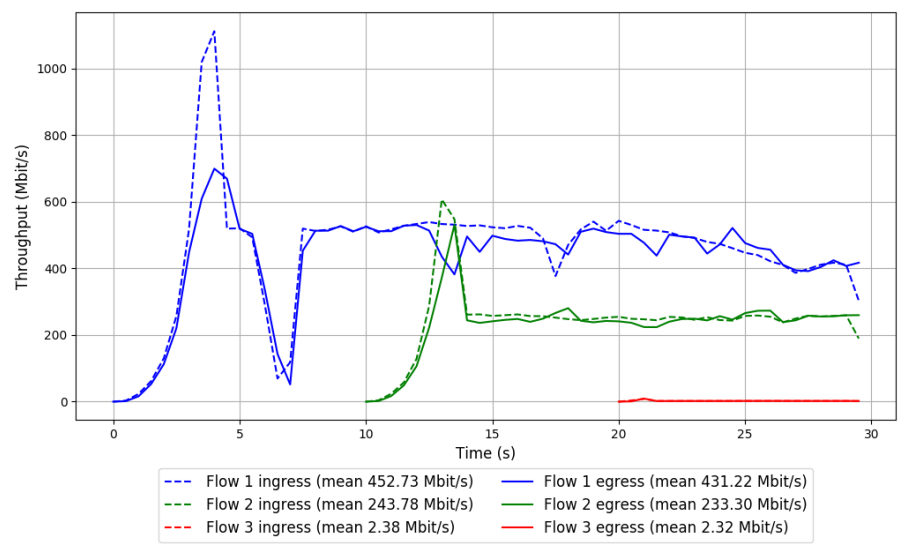


```
Run 2: Statistics of PCC

Start at: 2017-11-22 04:43:53
End at: 2017-11-22 04:44:23

# Below is generated by plot.py at 2017-11-22 07:45:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 587.04 Mbit/s
95th percentile per-packet one-way delay: 267.982 ms
Loss rate: 4.64%
-- Flow 1:
Average throughput: 431.22 Mbit/s
95th percentile per-packet one-way delay: 275.843 ms
Loss rate: 4.75%
-- Flow 2:
Average throughput: 233.30 Mbit/s
95th percentile per-packet one-way delay: 242.039 ms
Loss rate: 4.32%
-- Flow 3:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 240.753 ms
Loss rate: 2.56%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-22 04:57:58

End at: 2017-11-22 04:58:28

Below is generated by plot.py at 2017-11-22 07:45:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 577.93 Mbit/s

95th percentile per-packet one-way delay: 318.611 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 458.23 Mbit/s

95th percentile per-packet one-way delay: 321.723 ms

Loss rate: 4.39%

-- Flow 2:

Average throughput: 121.21 Mbit/s

95th percentile per-packet one-way delay: 246.592 ms

Loss rate: 2.47%

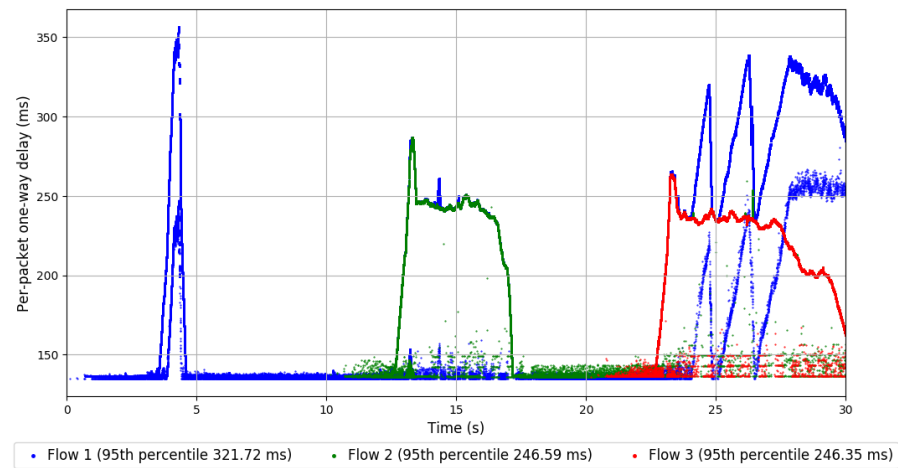
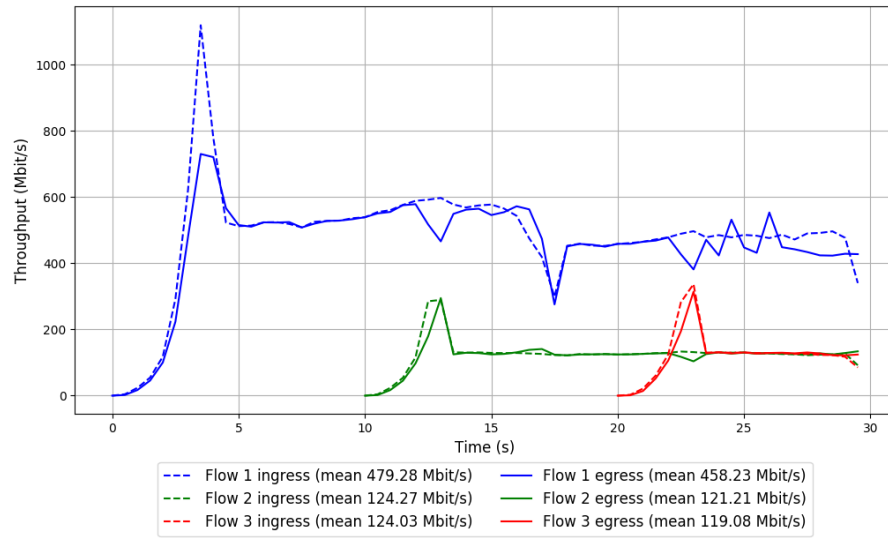
-- Flow 3:

Average throughput: 119.08 Mbit/s

95th percentile per-packet one-way delay: 246.350 ms

Loss rate: 3.99%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-22 05:12:18

End at: 2017-11-22 05:12:48

Below is generated by plot.py at 2017-11-22 07:45:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 596.44 Mbit/s

95th percentile per-packet one-way delay: 306.681 ms

Loss rate: 5.63%

-- Flow 1:

Average throughput: 480.14 Mbit/s

95th percentile per-packet one-way delay: 313.277 ms

Loss rate: 6.44%

-- Flow 2:

Average throughput: 144.26 Mbit/s

95th percentile per-packet one-way delay: 232.132 ms

Loss rate: 1.87%

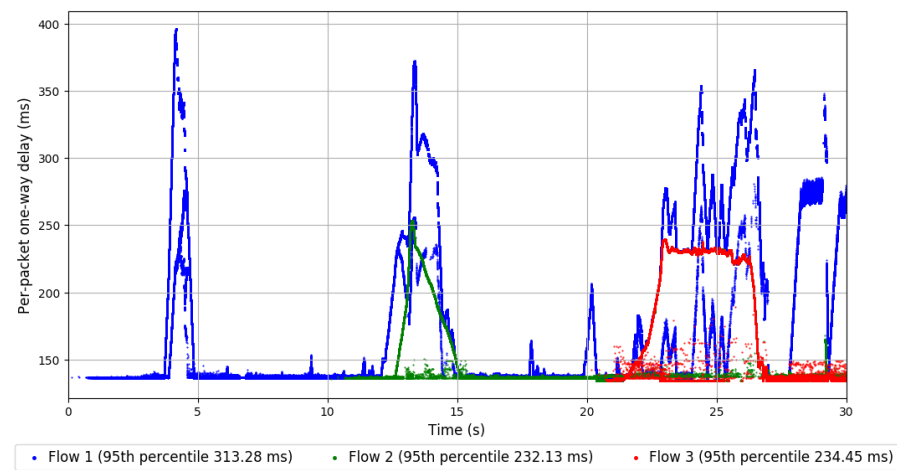
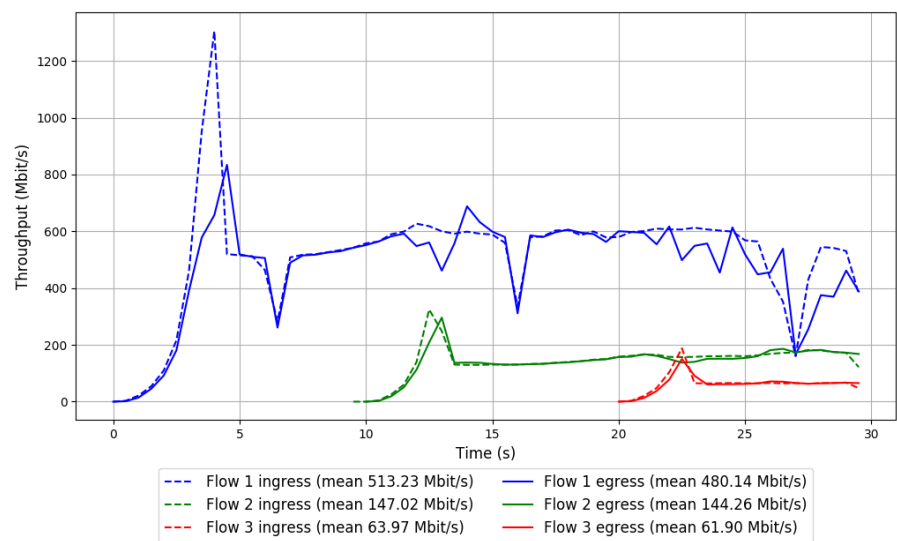
-- Flow 3:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 234.446 ms

Loss rate: 3.31%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-22 05:26:40

End at: 2017-11-22 05:27:10

Below is generated by plot.py at 2017-11-22 07:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 594.62 Mbit/s

95th percentile per-packet one-way delay: 270.462 ms

Loss rate: 4.41%

-- Flow 1:

Average throughput: 492.42 Mbit/s

95th percentile per-packet one-way delay: 277.534 ms

Loss rate: 5.01%

-- Flow 2:

Average throughput: 122.87 Mbit/s

95th percentile per-packet one-way delay: 232.811 ms

Loss rate: 1.56%

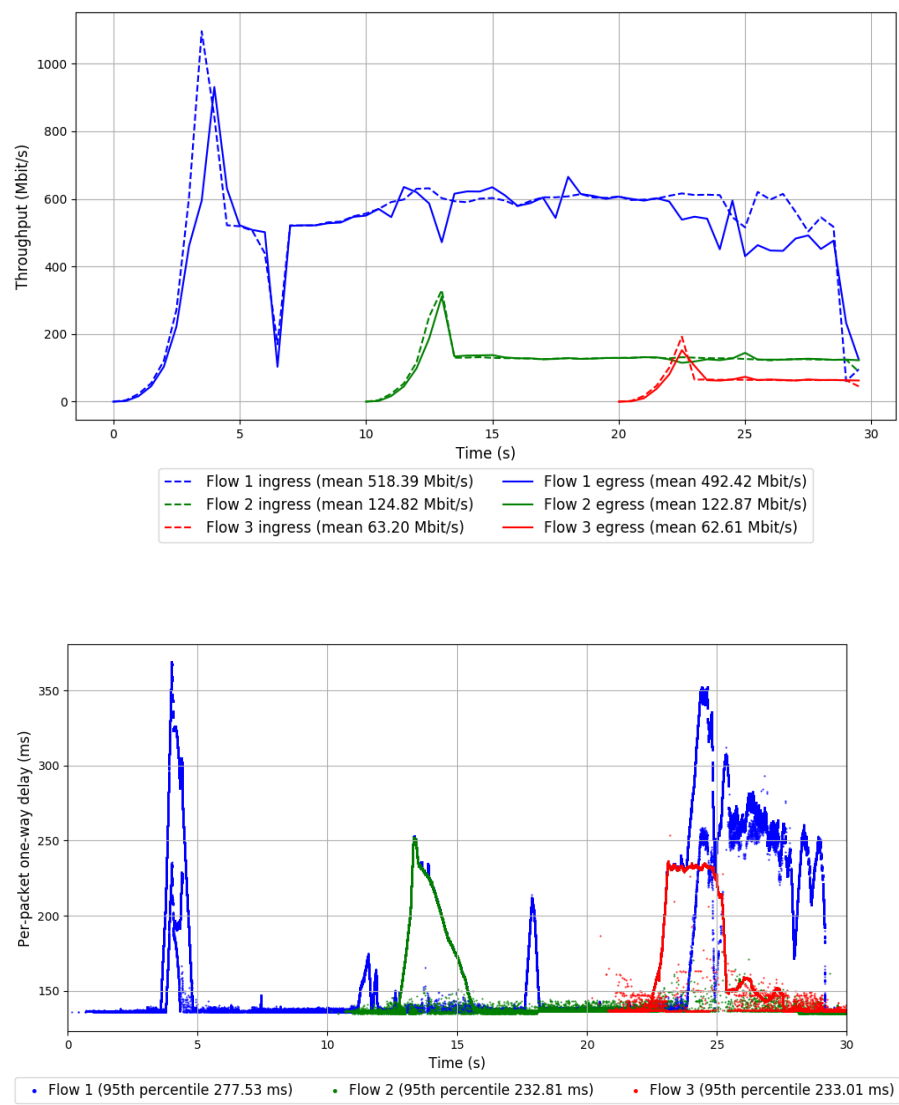
-- Flow 3:

Average throughput: 62.61 Mbit/s

95th percentile per-packet one-way delay: 233.006 ms

Loss rate: 1.02%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-22 05:40:59

End at: 2017-11-22 05:41:29

Below is generated by plot.py at 2017-11-22 07:46:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.32 Mbit/s

95th percentile per-packet one-way delay: 336.358 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 471.77 Mbit/s

95th percentile per-packet one-way delay: 345.981 ms

Loss rate: 5.31%

-- Flow 2:

Average throughput: 138.03 Mbit/s

95th percentile per-packet one-way delay: 234.637 ms

Loss rate: 1.08%

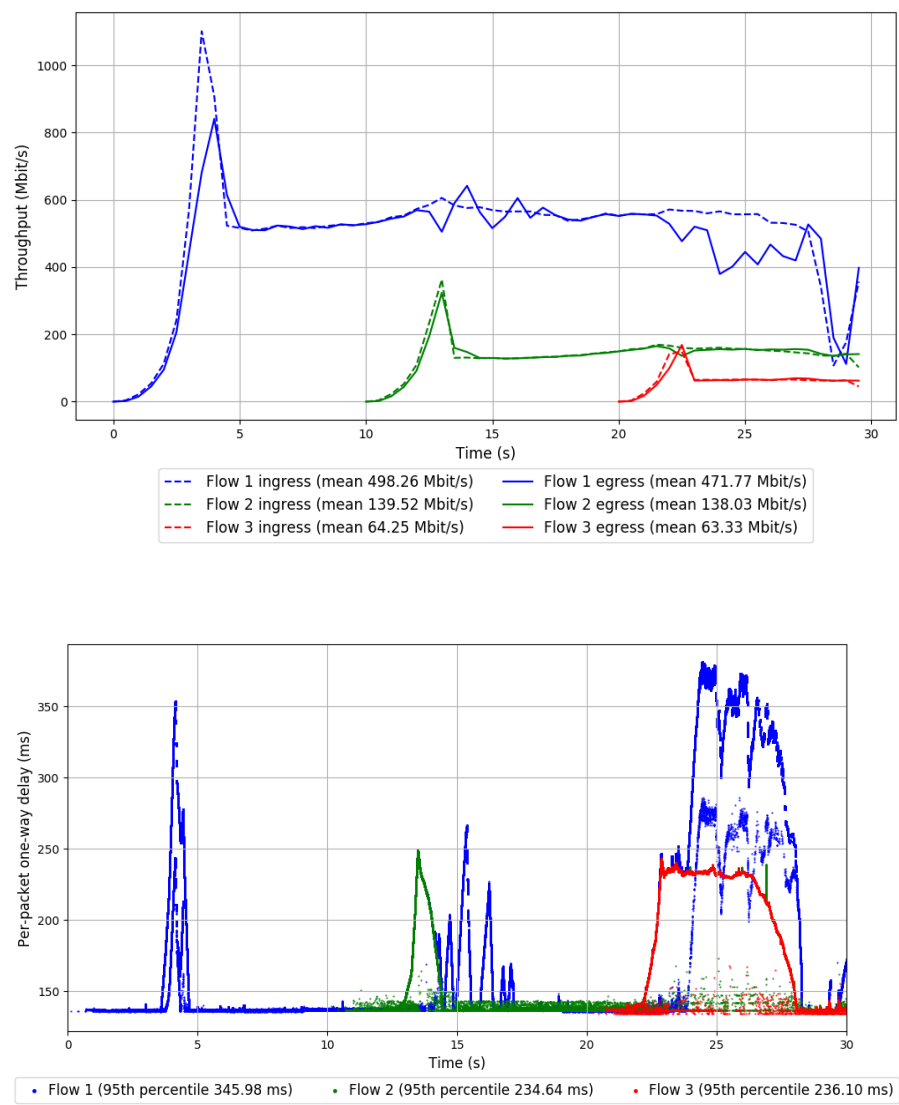
-- Flow 3:

Average throughput: 63.33 Mbit/s

95th percentile per-packet one-way delay: 236.102 ms

Loss rate: 1.41%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-22 05:55:15

End at: 2017-11-22 05:55:45

Below is generated by plot.py at 2017-11-22 07:46:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.40 Mbit/s

95th percentile per-packet one-way delay: 251.530 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 510.83 Mbit/s

95th percentile per-packet one-way delay: 253.069 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 121.64 Mbit/s

95th percentile per-packet one-way delay: 247.799 ms

Loss rate: 1.70%

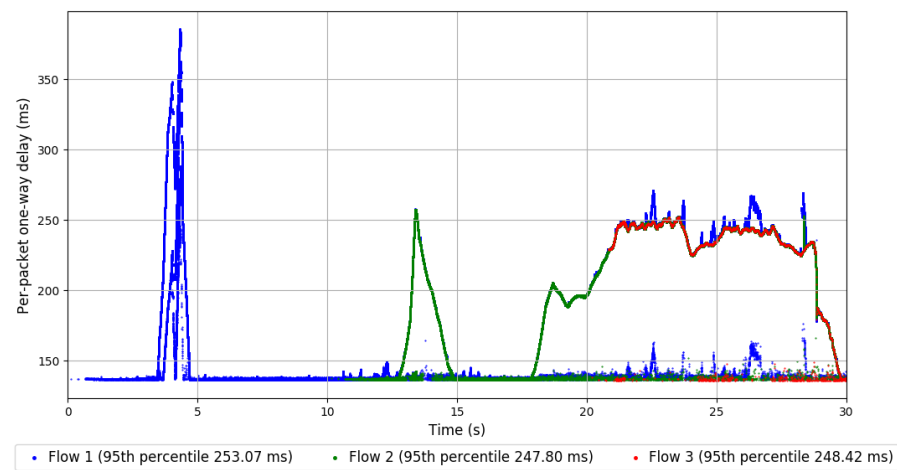
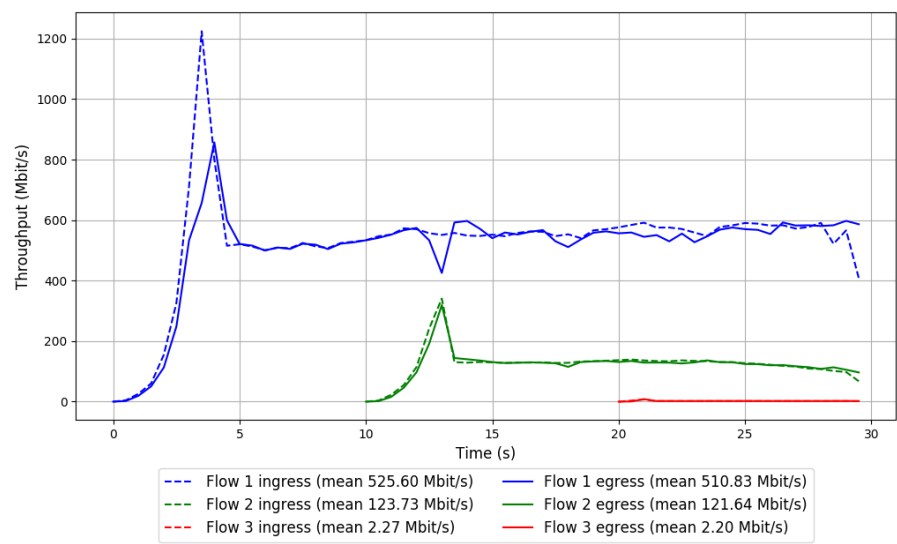
-- Flow 3:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 248.423 ms

Loss rate: 3.02%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-22 06:09:19

End at: 2017-11-22 06:09:49

Below is generated by plot.py at 2017-11-22 07:47:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 605.19 Mbit/s

95th percentile per-packet one-way delay: 291.322 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 499.84 Mbit/s

95th percentile per-packet one-way delay: 301.054 ms

Loss rate: 3.95%

-- Flow 2:

Average throughput: 127.72 Mbit/s

95th percentile per-packet one-way delay: 240.535 ms

Loss rate: 1.76%

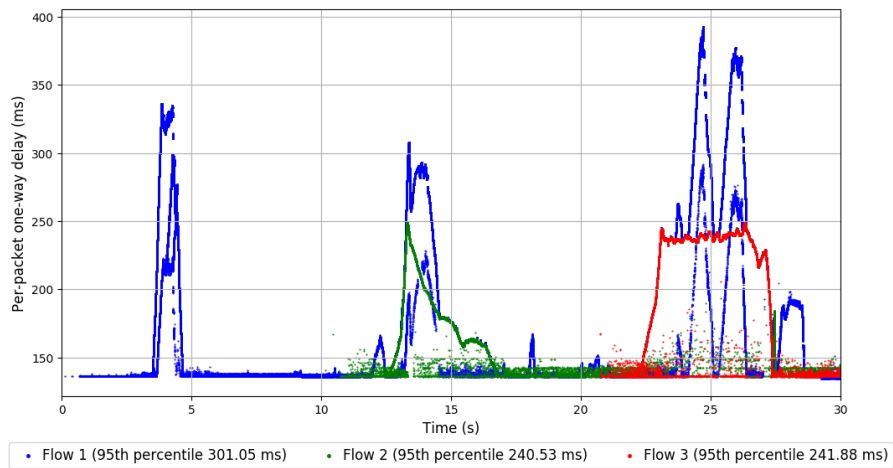
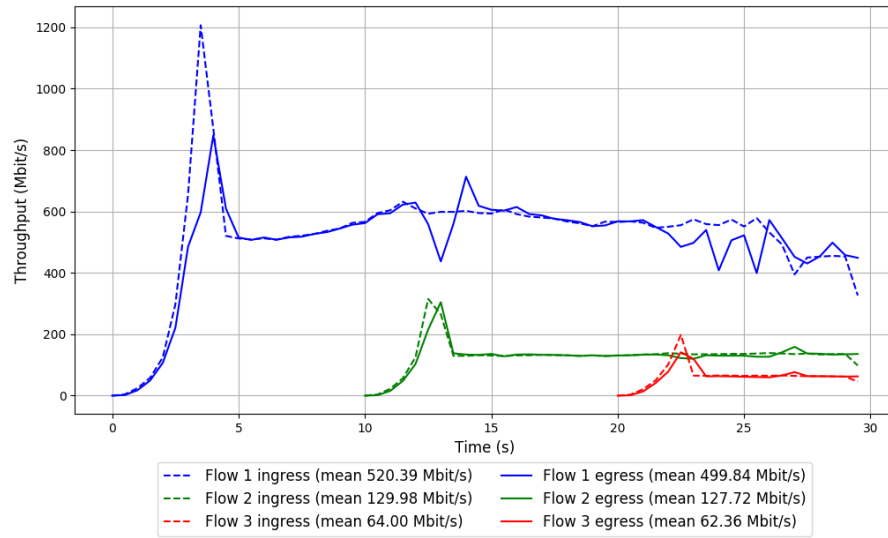
-- Flow 3:

Average throughput: 62.36 Mbit/s

95th percentile per-packet one-way delay: 241.876 ms

Loss rate: 2.58%

Run 8: Report of PCC — Data Link

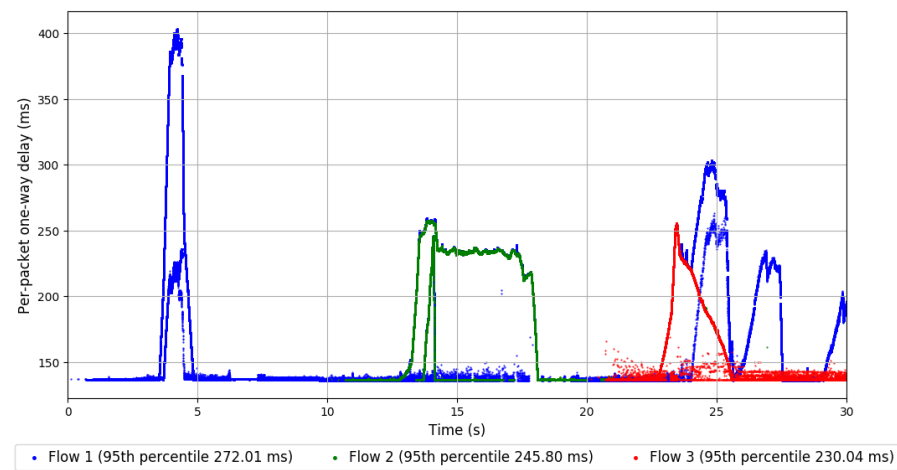
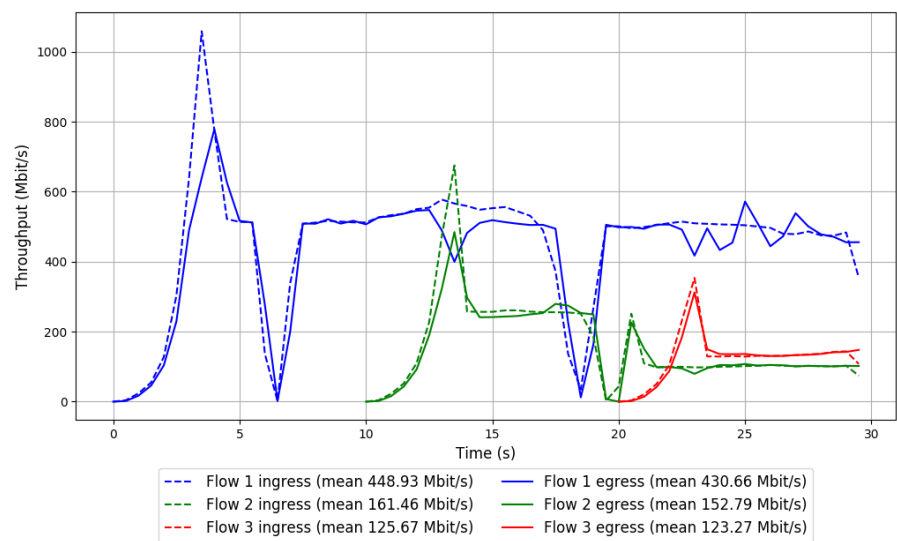


```
Run 9: Statistics of PCC

Start at: 2017-11-22 06:23:39
End at: 2017-11-22 06:24:09

# Below is generated by plot.py at 2017-11-22 07:54:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 572.84 Mbit/s
95th percentile per-packet one-way delay: 256.004 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 430.66 Mbit/s
95th percentile per-packet one-way delay: 272.013 ms
Loss rate: 4.07%
-- Flow 2:
Average throughput: 152.79 Mbit/s
95th percentile per-packet one-way delay: 245.796 ms
Loss rate: 5.37%
-- Flow 3:
Average throughput: 123.27 Mbit/s
95th percentile per-packet one-way delay: 230.040 ms
Loss rate: 1.91%
```

Run 9: Report of PCC — Data Link

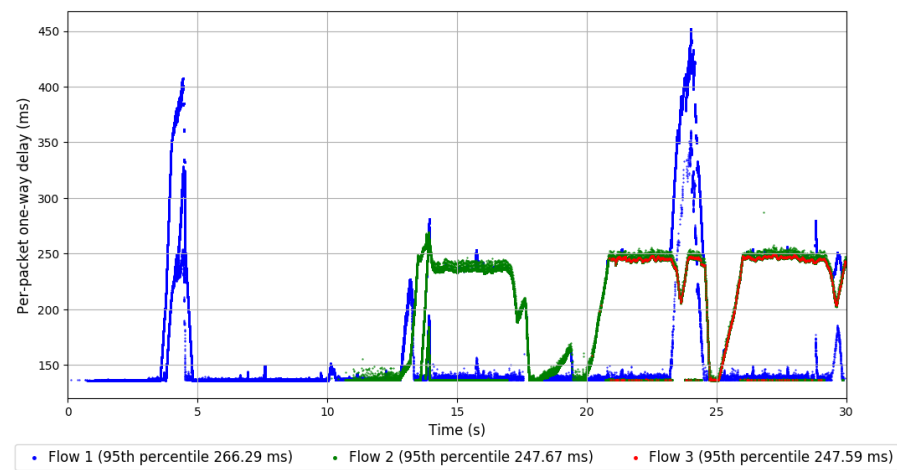
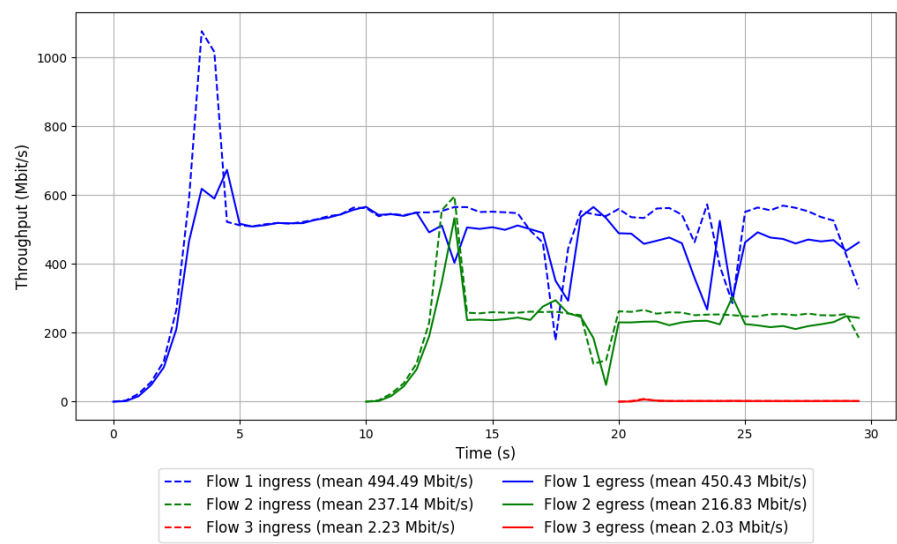


```
Run 10: Statistics of PCC

Start at: 2017-11-22 06:37:38
End at: 2017-11-22 06:38:08

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.22 Mbit/s
95th percentile per-packet one-way delay: 253.301 ms
Loss rate: 8.83%
-- Flow 1:
Average throughput: 450.43 Mbit/s
95th percentile per-packet one-way delay: 266.285 ms
Loss rate: 8.91%
-- Flow 2:
Average throughput: 216.83 Mbit/s
95th percentile per-packet one-way delay: 247.670 ms
Loss rate: 8.57%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 247.591 ms
Loss rate: 9.14%
```

Run 10: Report of PCC — Data Link

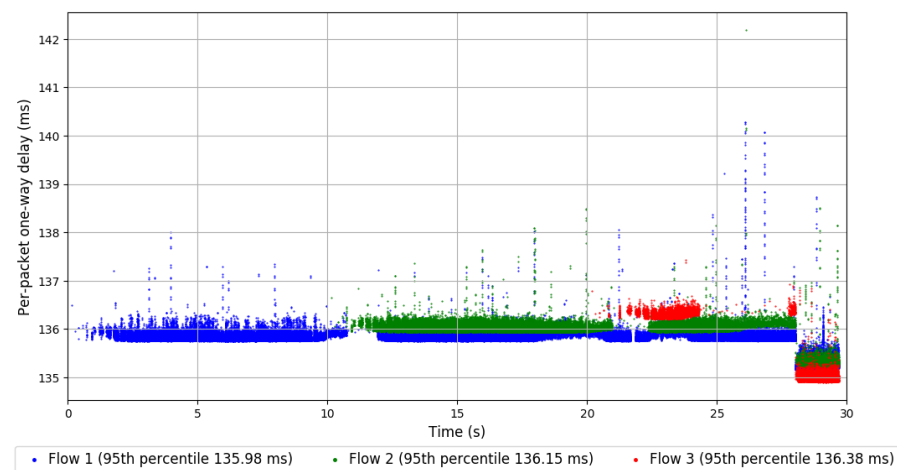
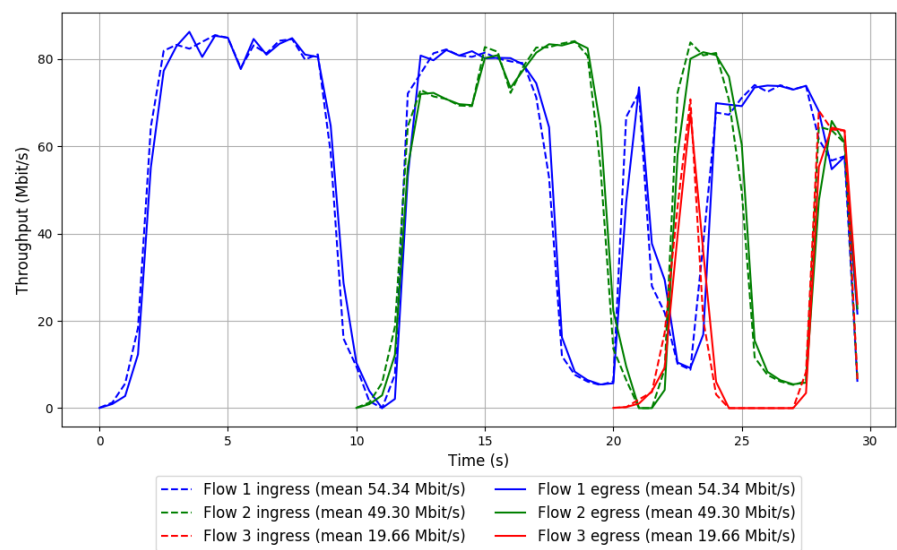


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-22 04:30:40
End at: 2017-11-22 04:31:10

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 136.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.34 Mbit/s
95th percentile per-packet one-way delay: 135.984 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 136.146 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 136.384 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-22 04:45:11

End at: 2017-11-22 04:45:41

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.54 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.57 Mbit/s

95th percentile per-packet one-way delay: 134.902 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.40 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.00%

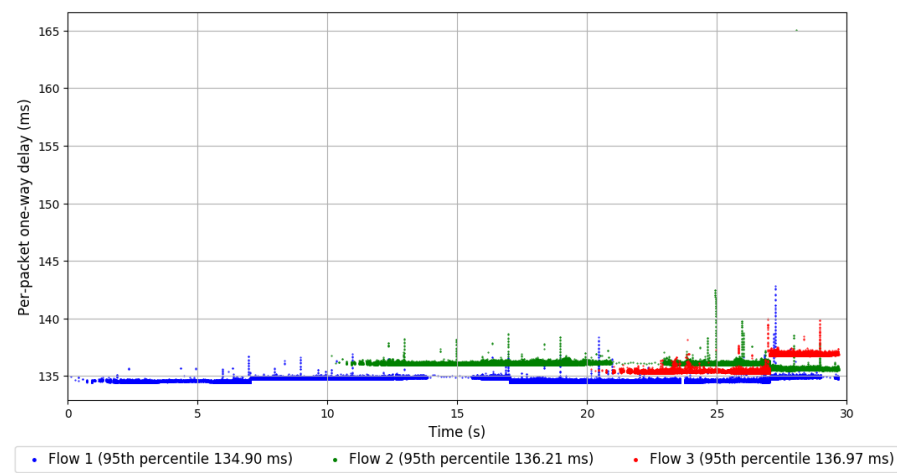
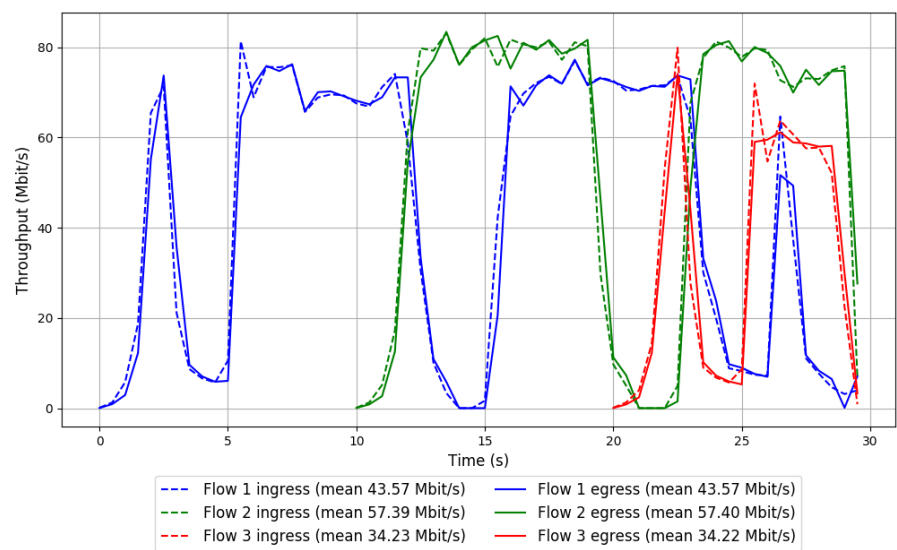
-- Flow 3:

Average throughput: 34.22 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-22 04:59:14

End at: 2017-11-22 04:59:44

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.87 Mbit/s

95th percentile per-packet one-way delay: 135.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.79 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.90 Mbit/s

95th percentile per-packet one-way delay: 135.125 ms

Loss rate: 0.00%

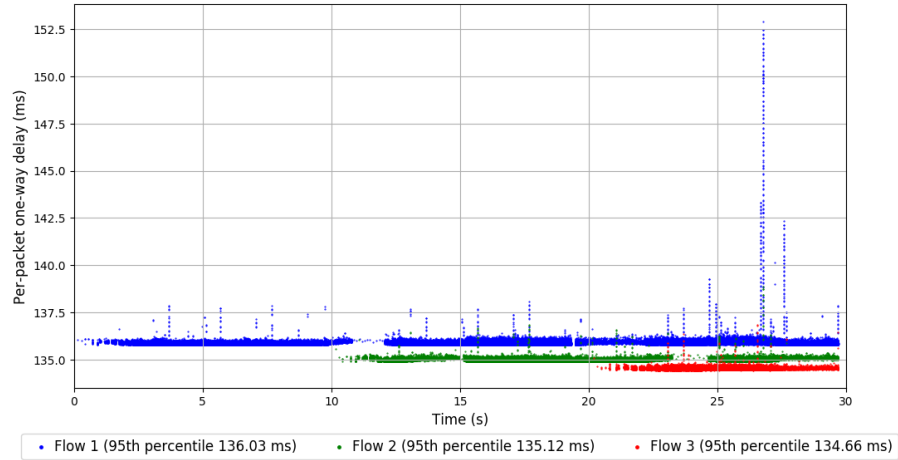
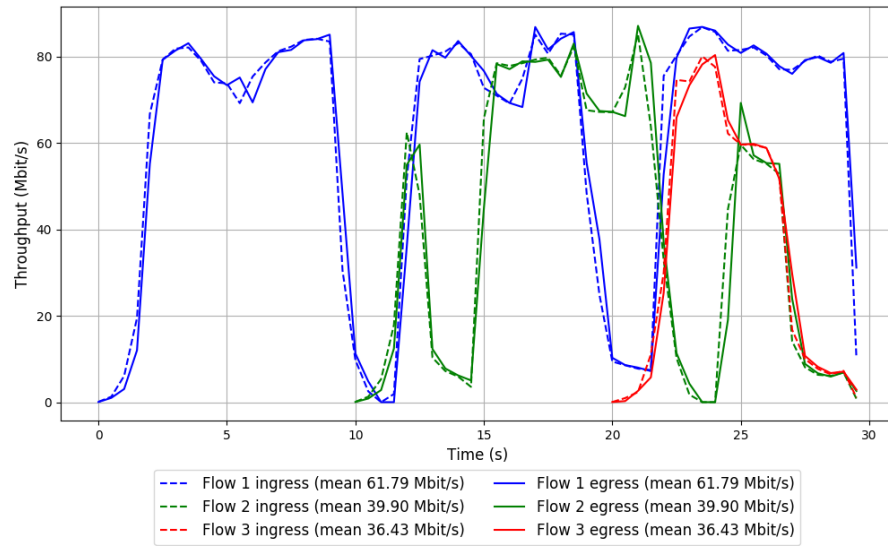
-- Flow 3:

Average throughput: 36.43 Mbit/s

95th percentile per-packet one-way delay: 134.663 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-22 05:13:37

End at: 2017-11-22 05:14:07

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.45 Mbit/s

95th percentile per-packet one-way delay: 137.195 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 137.235 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 136.440 ms

Loss rate: 0.01%

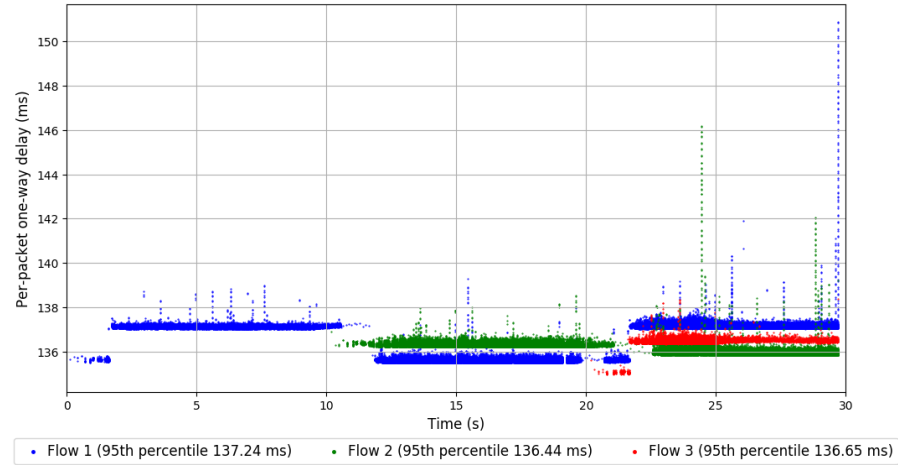
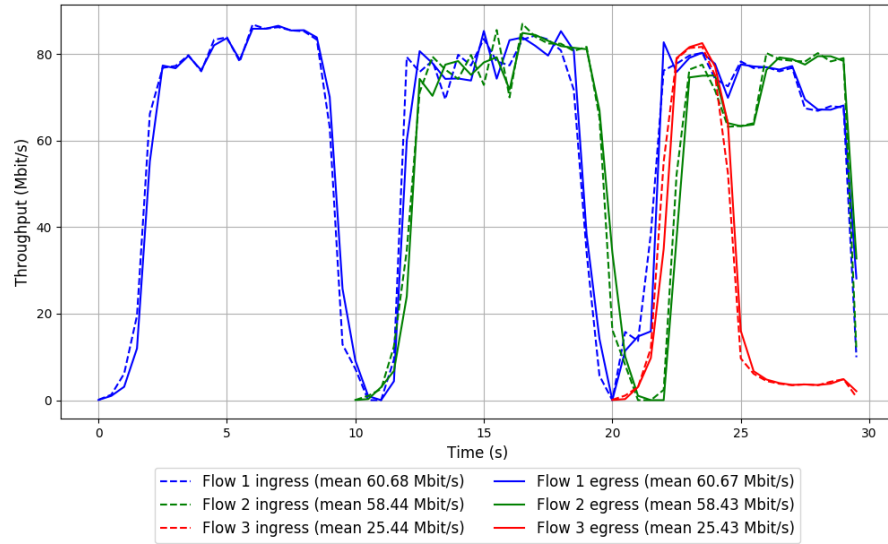
-- Flow 3:

Average throughput: 25.43 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-22 05:27:58

End at: 2017-11-22 05:28:28

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.86 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.08 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.36 Mbit/s

95th percentile per-packet one-way delay: 137.143 ms

Loss rate: 0.00%

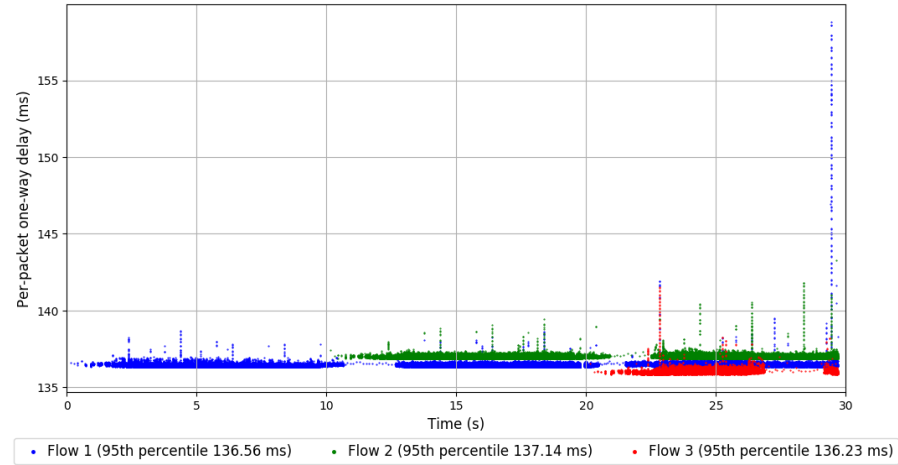
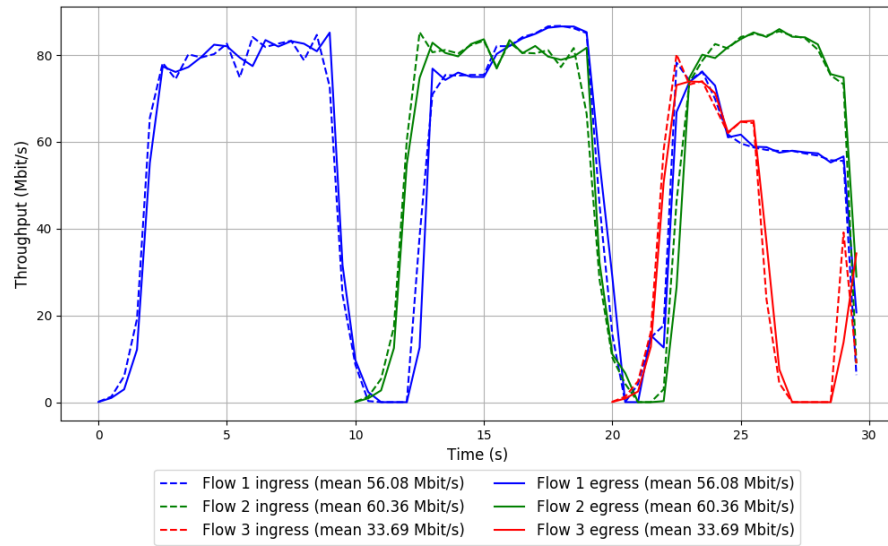
-- Flow 3:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 136.227 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-22 05:42:17

End at: 2017-11-22 05:42:47

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.85 Mbit/s

95th percentile per-packet one-way delay: 136.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.74 Mbit/s

95th percentile per-packet one-way delay: 136.509 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 136.042 ms

Loss rate: 0.00%

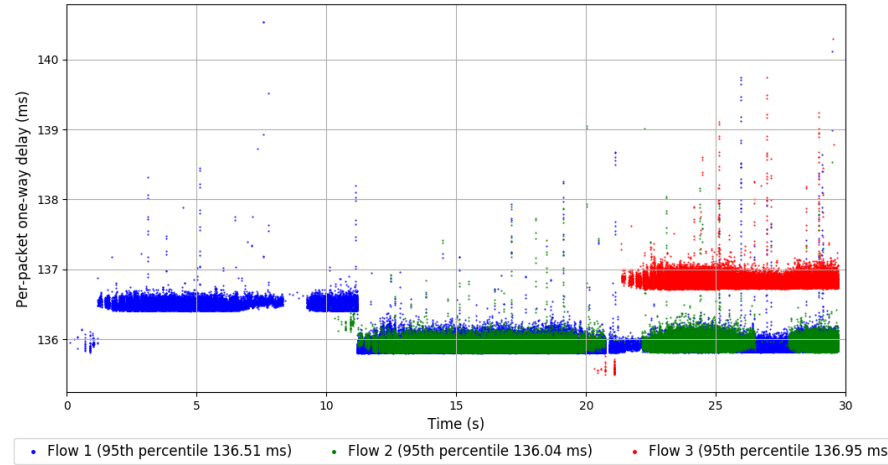
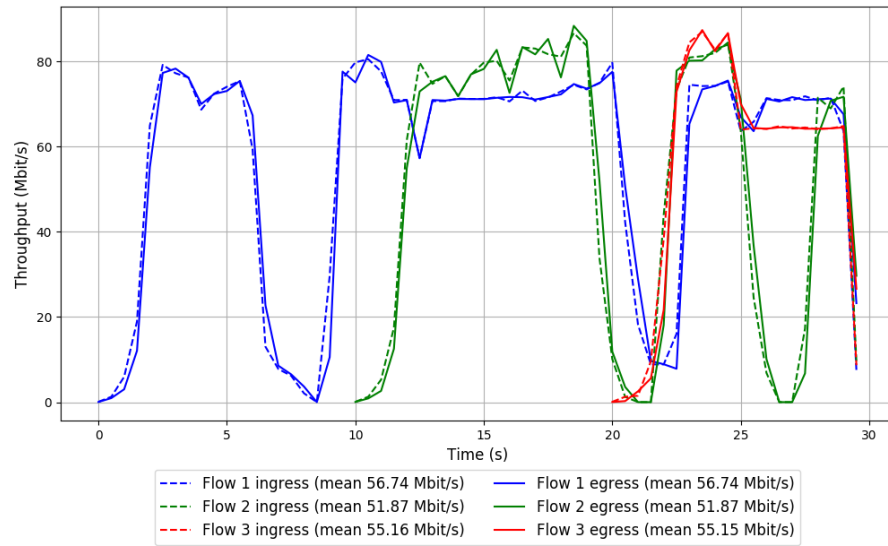
-- Flow 3:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 136.953 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-22 05:56:32

End at: 2017-11-22 05:57:02

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.56 Mbit/s

95th percentile per-packet one-way delay: 137.191 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.44 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 137.272 ms

Loss rate: 0.00%

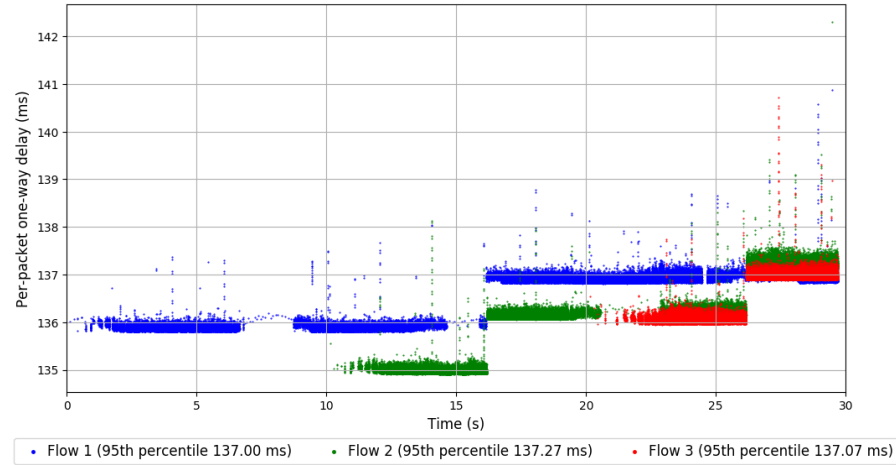
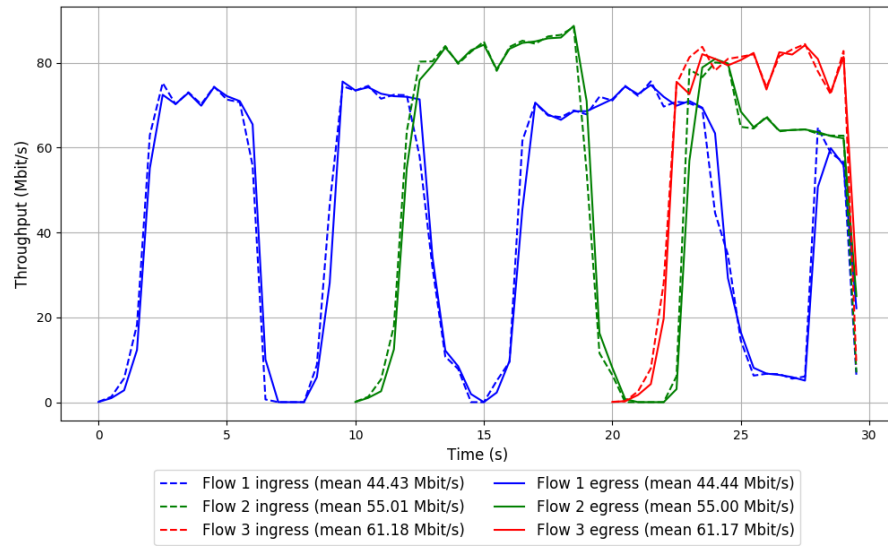
-- Flow 3:

Average throughput: 61.17 Mbit/s

95th percentile per-packet one-way delay: 137.067 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-22 06:10:37

End at: 2017-11-22 06:11:07

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.46 Mbit/s

95th percentile per-packet one-way delay: 136.859 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.10 Mbit/s

95th percentile per-packet one-way delay: 136.905 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 136.486 ms

Loss rate: 0.00%

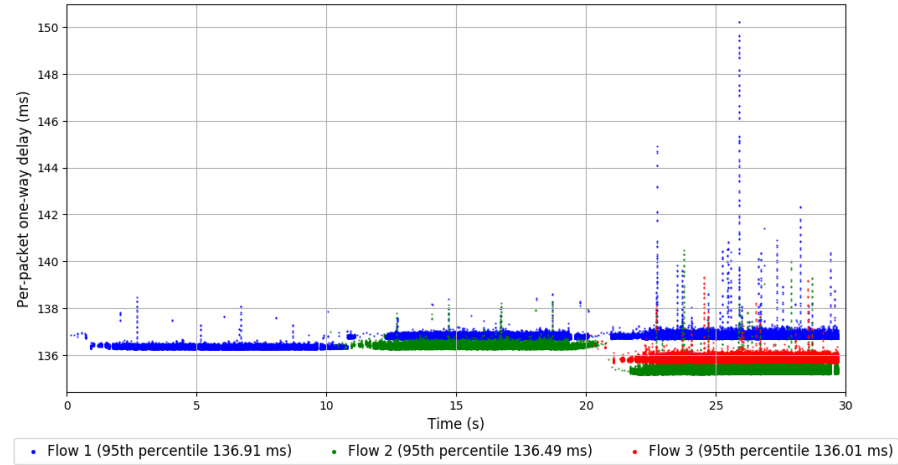
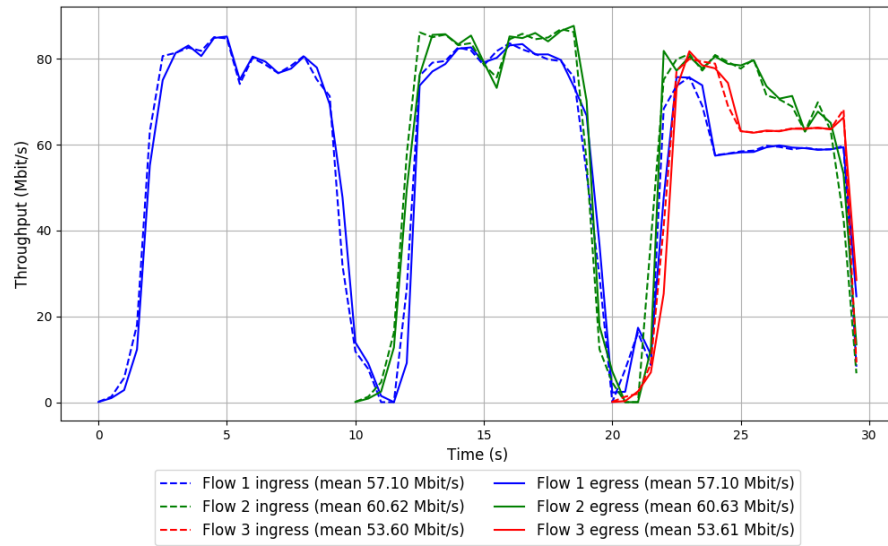
-- Flow 3:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 136.015 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-22 06:24:56

End at: 2017-11-22 06:25:26

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.77 Mbit/s

95th percentile per-packet one-way delay: 136.091 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 135.955 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 136.136 ms

Loss rate: 0.00%

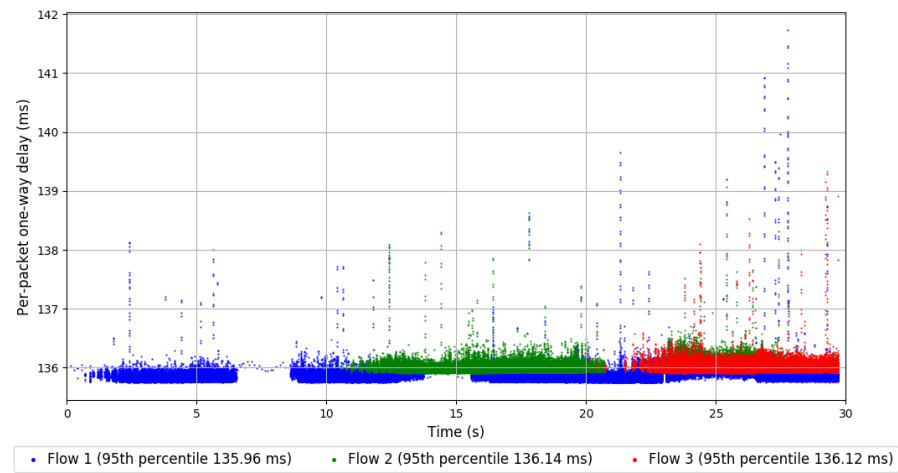
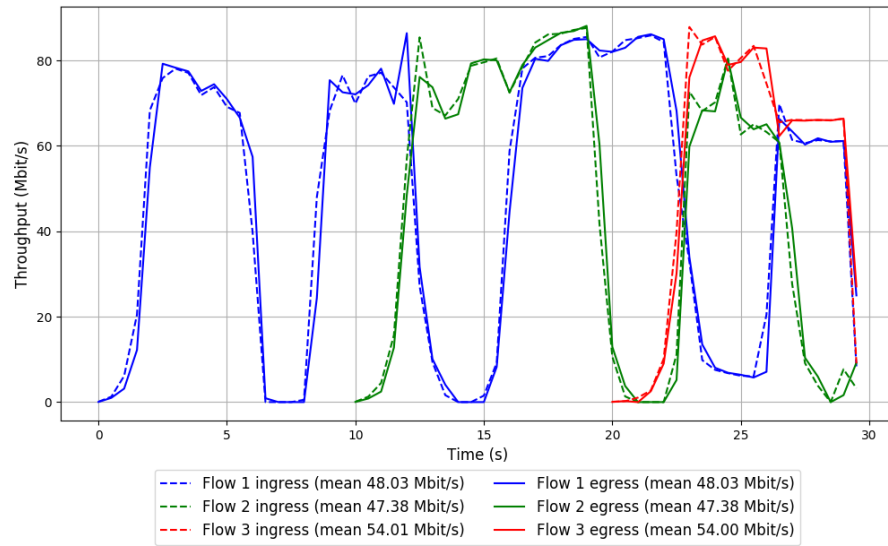
-- Flow 3:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 136.122 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-22 06:38:57

End at: 2017-11-22 06:39:27

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.63 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 137.167 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 137.290 ms

Loss rate: 0.00%

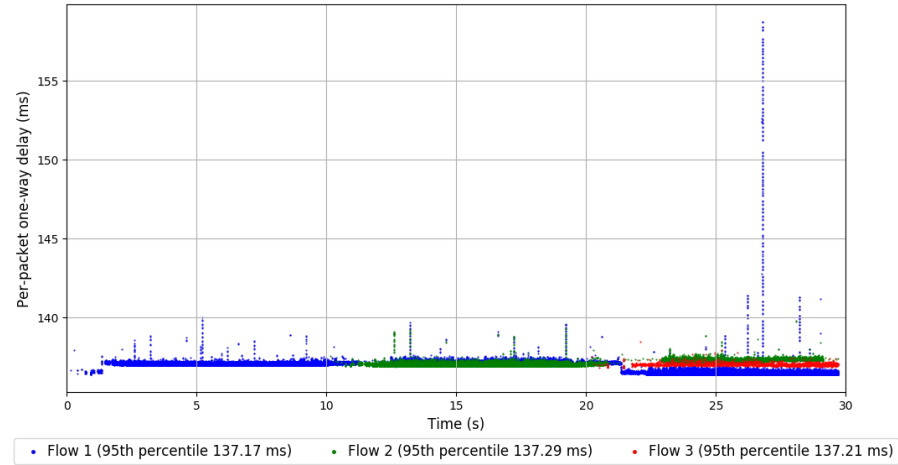
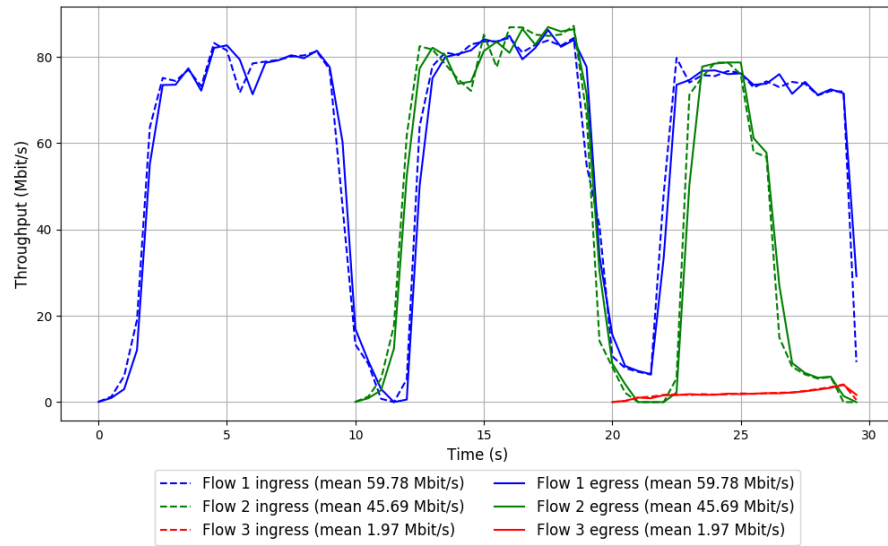
-- Flow 3:

Average throughput: 1.97 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

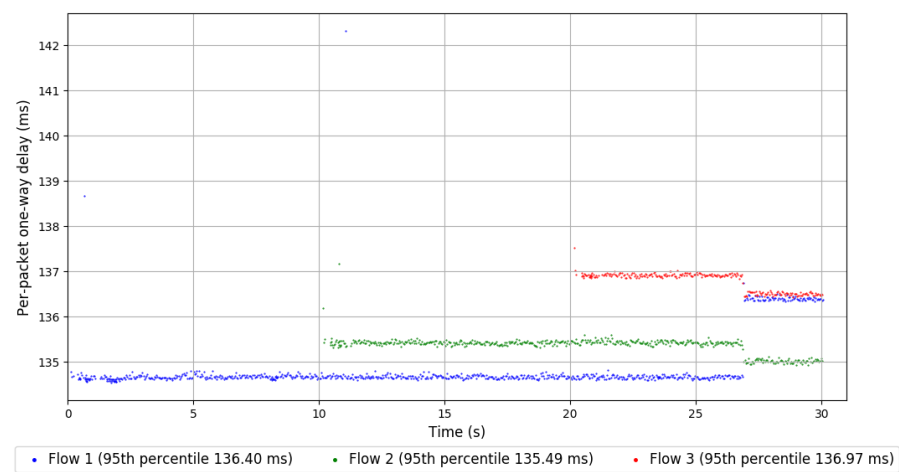
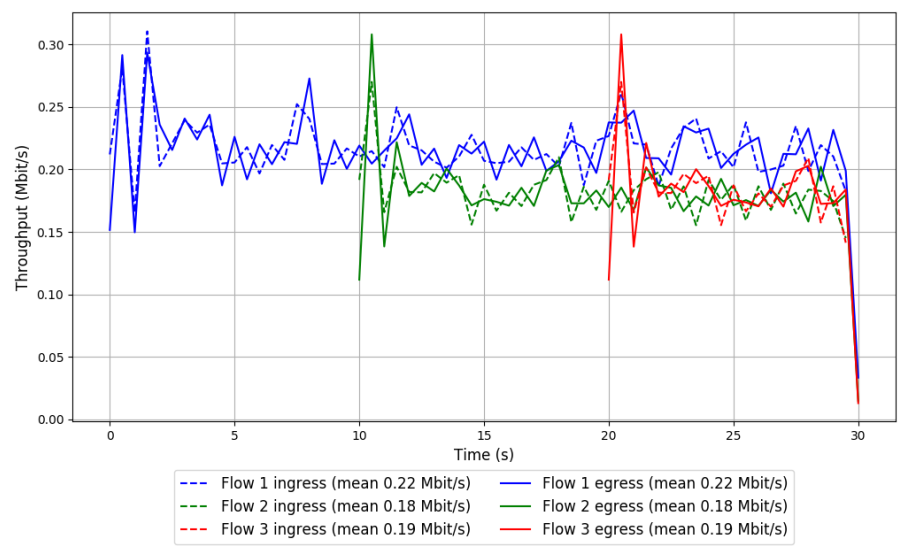


```
Run 1: Statistics of SCReAM

Start at: 2017-11-22 04:25:12
End at: 2017-11-22 04:25:42

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.395 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.973 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

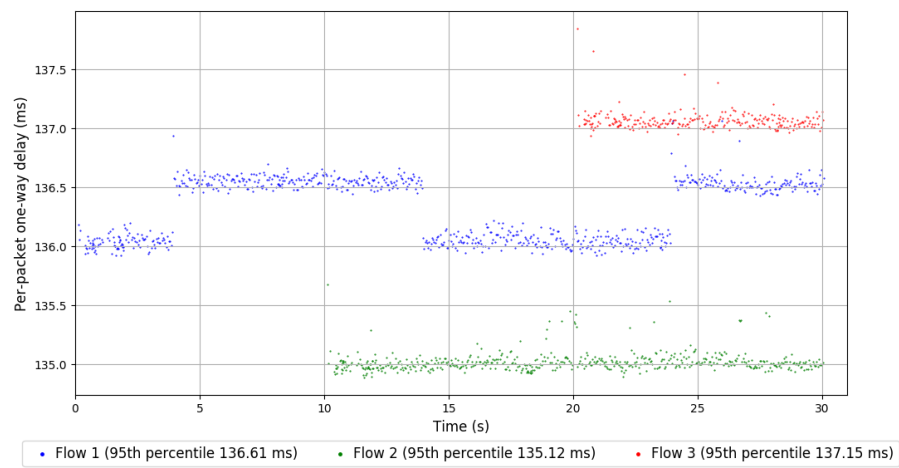
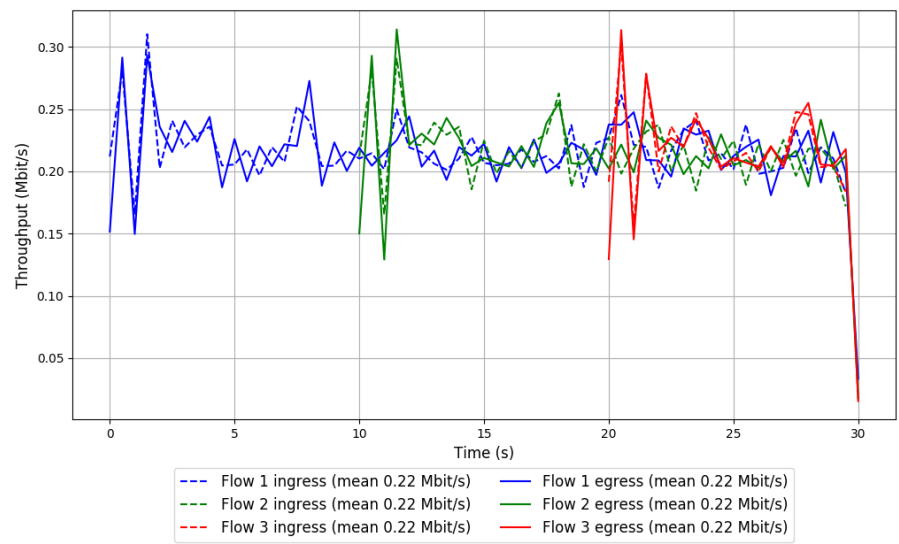


```
Run 2: Statistics of SReAM

Start at: 2017-11-22 04:39:45
End at: 2017-11-22 04:40:15

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.609 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.145 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-22 04:54:01

End at: 2017-11-22 04:54:31

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.494 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.101 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.532 ms

Loss rate: 0.00%

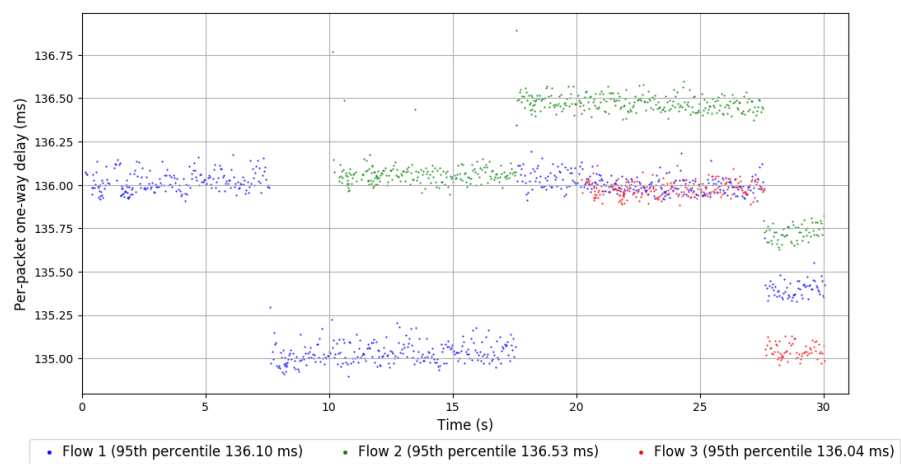
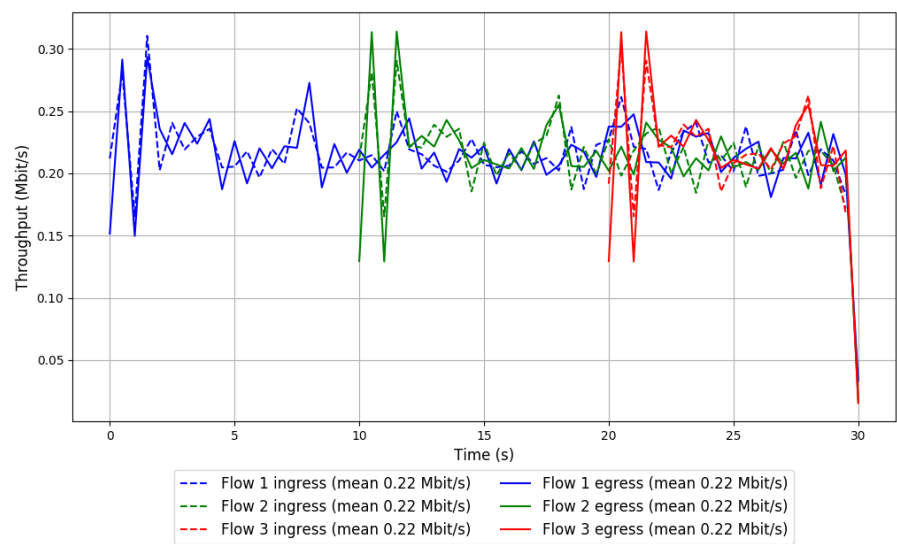
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.043 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-11-22 05:07:59

End at: 2017-11-22 05:08:29

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.001 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

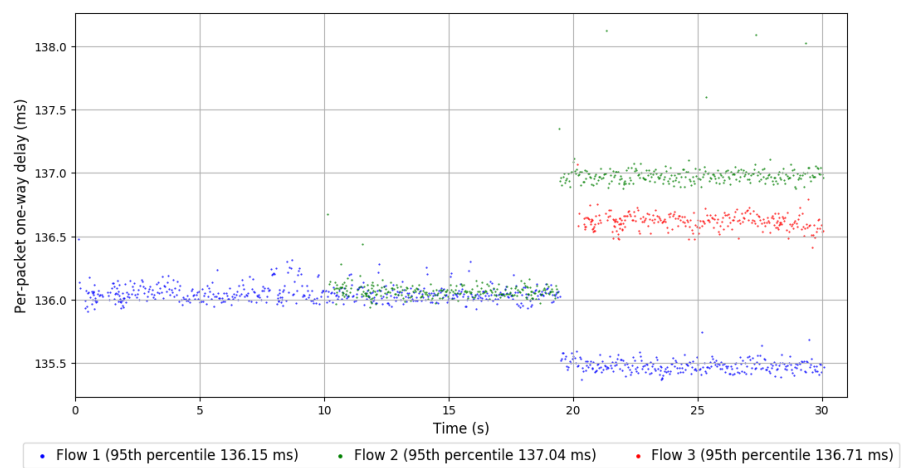
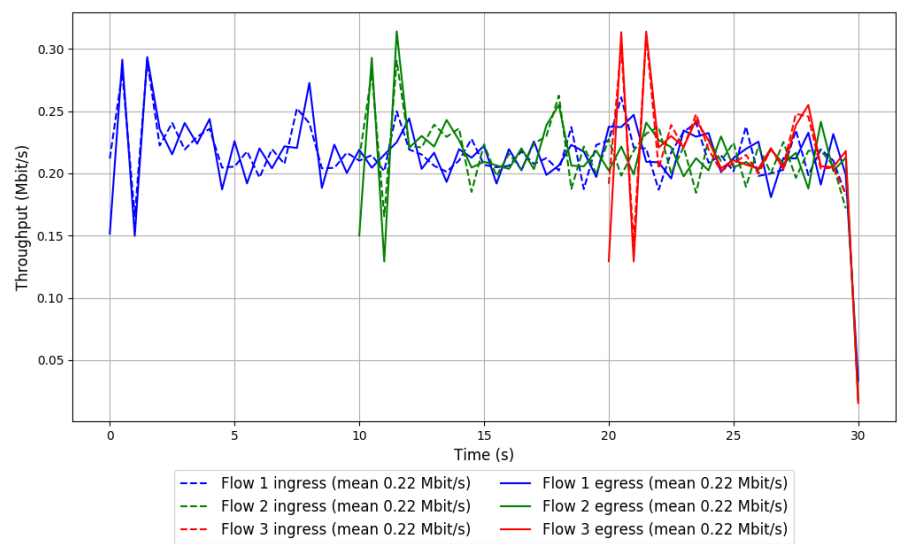
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-22 05:22:16

End at: 2017-11-22 05:22:46

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.966 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.606 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

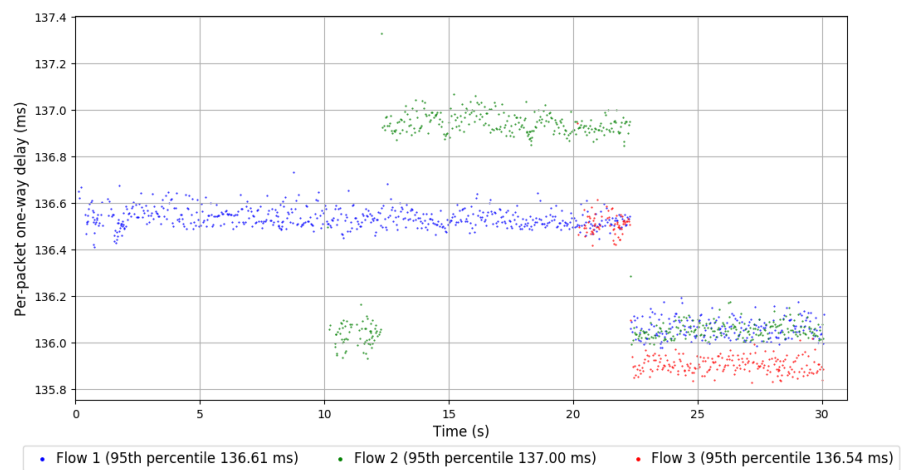
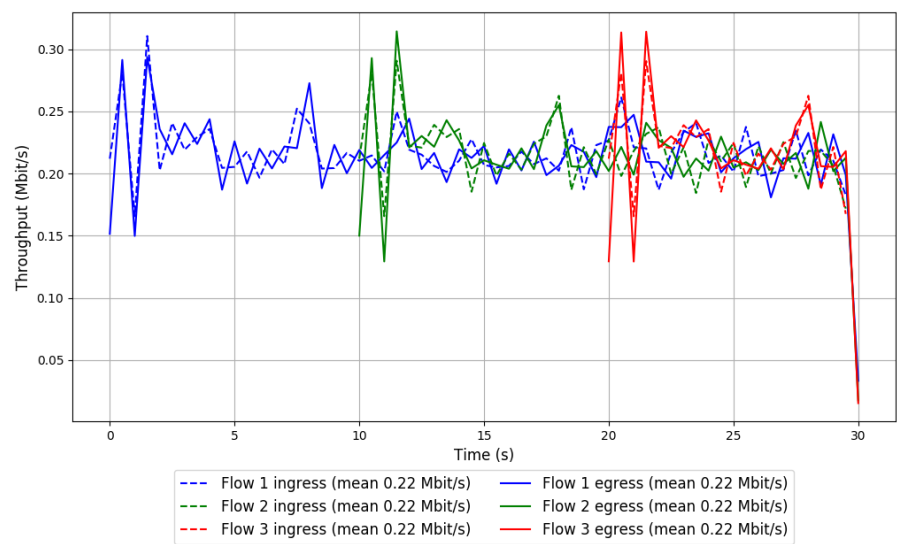
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-22 05:36:46

End at: 2017-11-22 05:37:16

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.932 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.237 ms

Loss rate: 0.00%

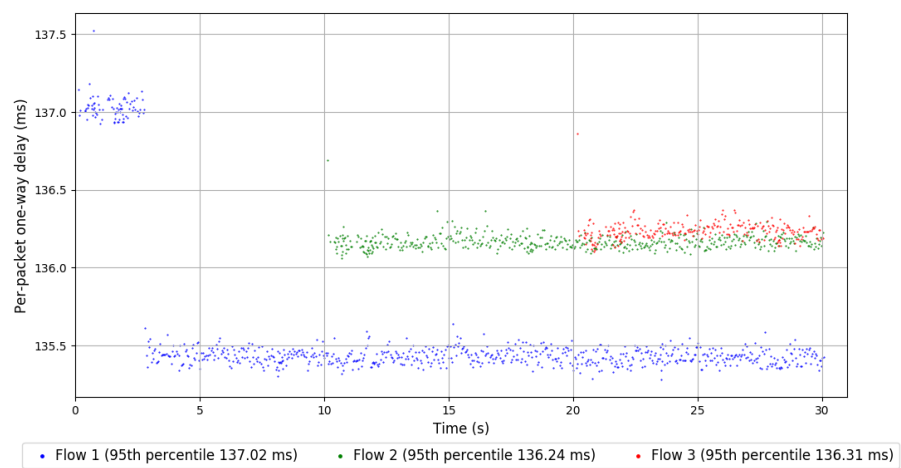
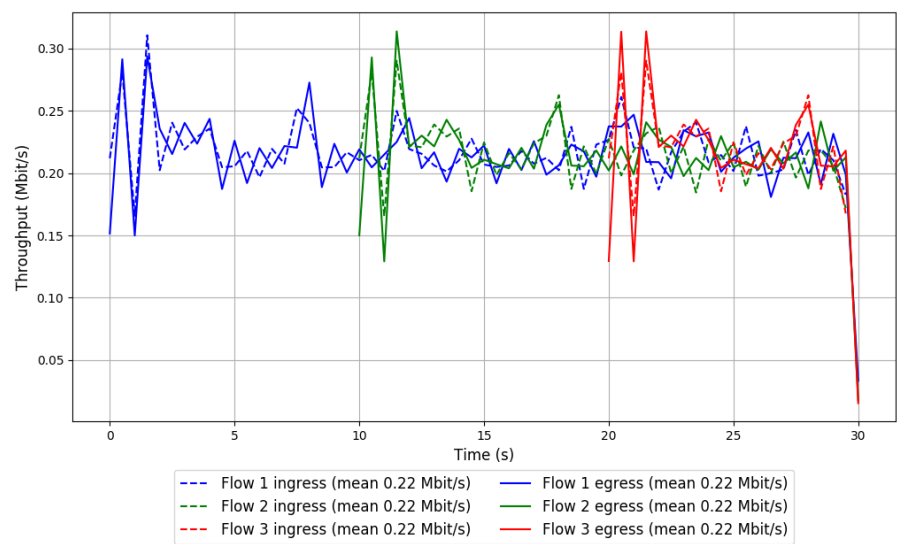
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

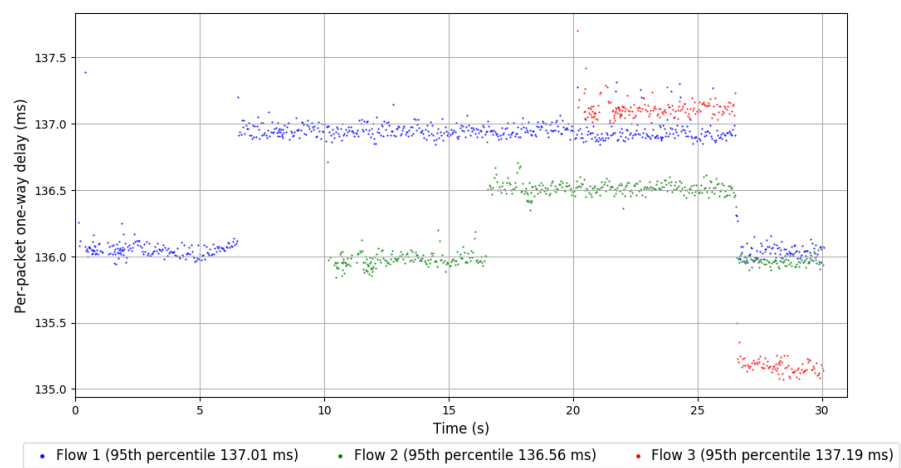
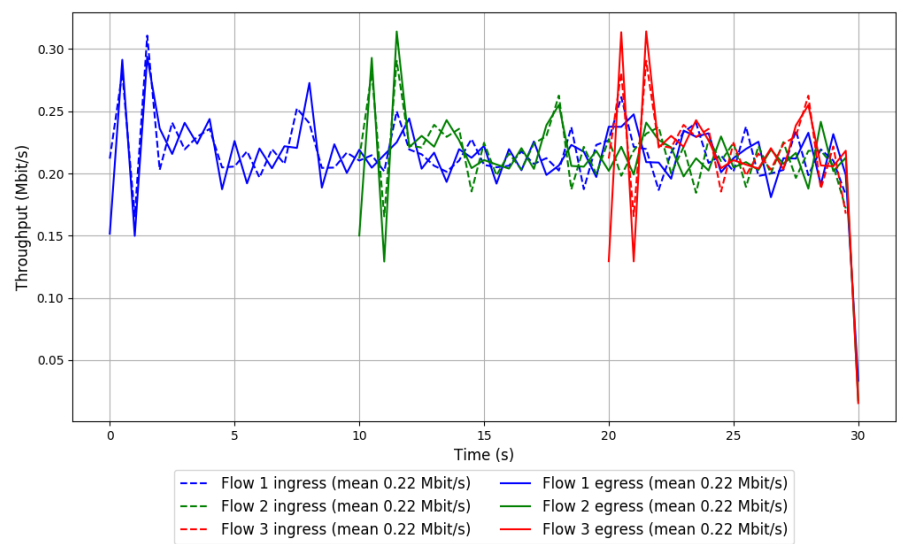


```
Run 7: Statistics of SReAM

Start at: 2017-11-22 05:51:02
End at: 2017-11-22 05:51:32

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.014 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.195 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-22 06:05:14

End at: 2017-11-22 06:05:44

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.129 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.169 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.633 ms

Loss rate: 0.00%

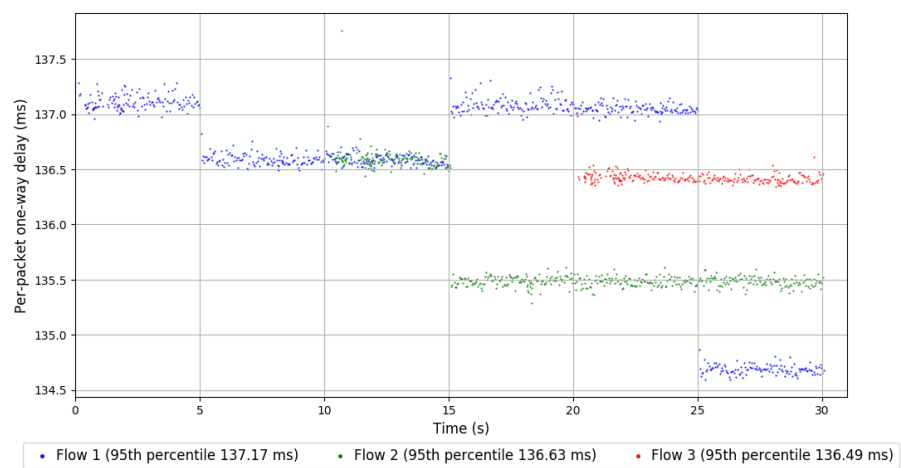
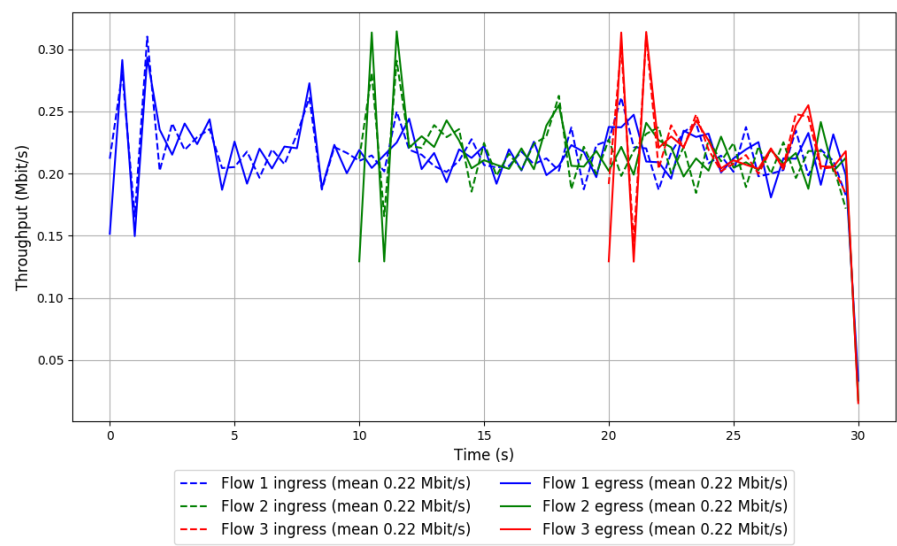
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.493 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-22 06:19:28

End at: 2017-11-22 06:19:58

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.616 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.650 ms

Loss rate: 0.00%

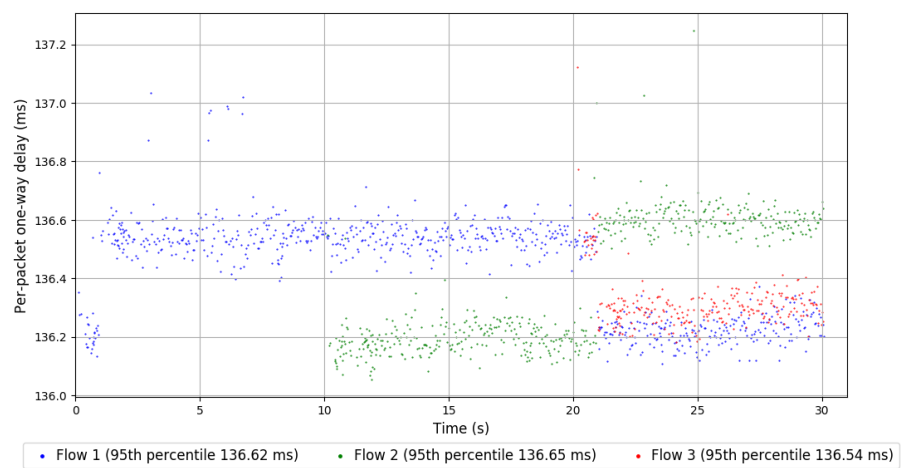
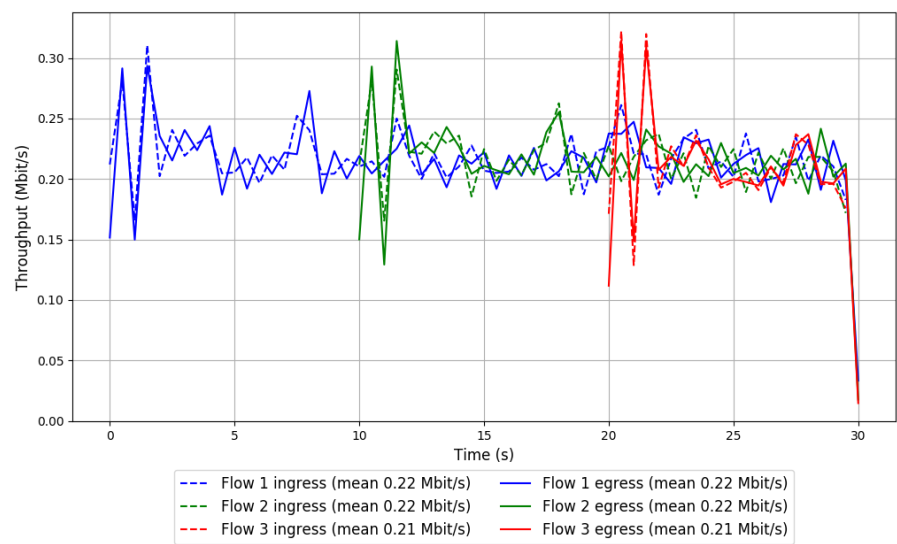
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 136.537 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

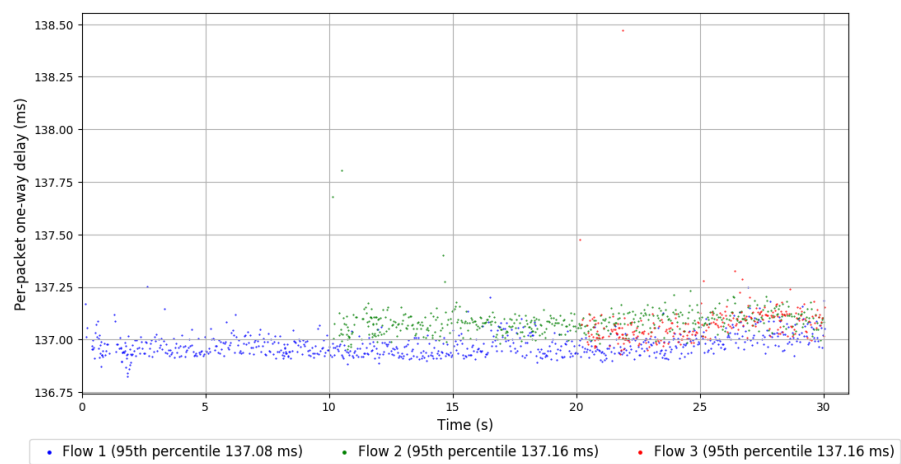
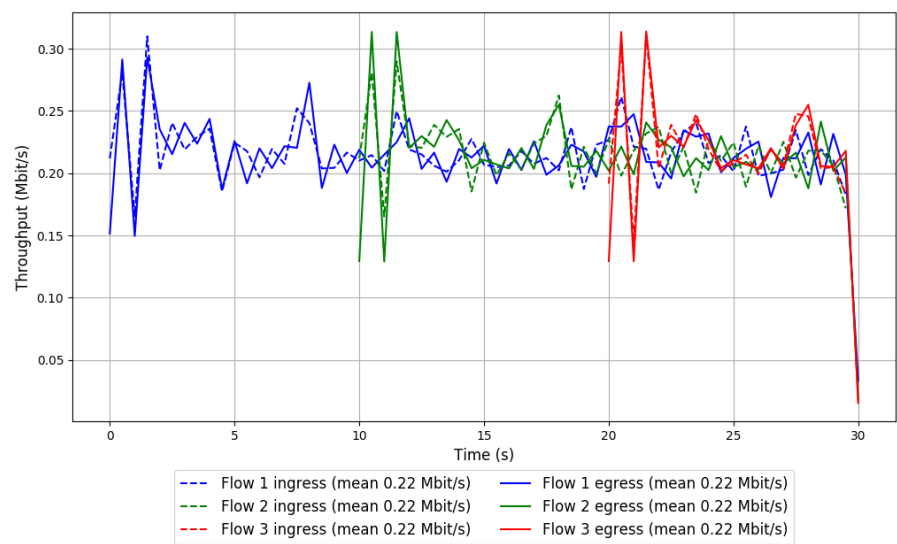


```
Run 10: Statistics of SReAM

Start at: 2017-11-22 06:33:34
End at: 2017-11-22 06:34:04

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.165 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

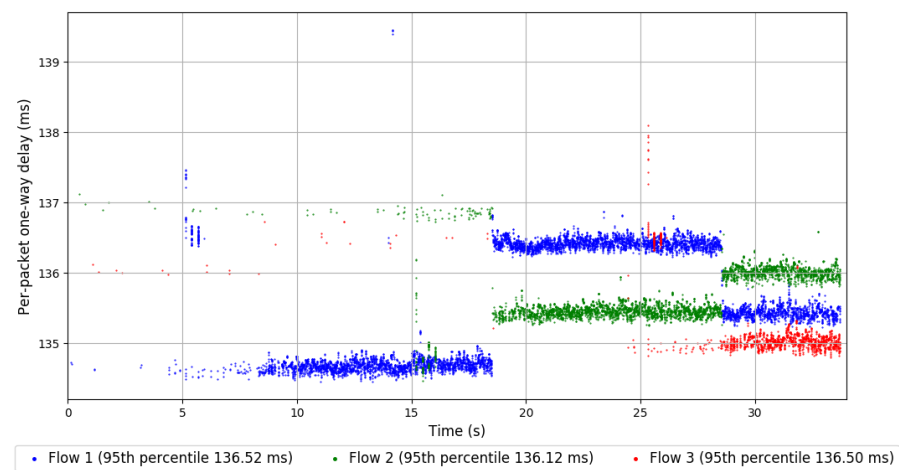
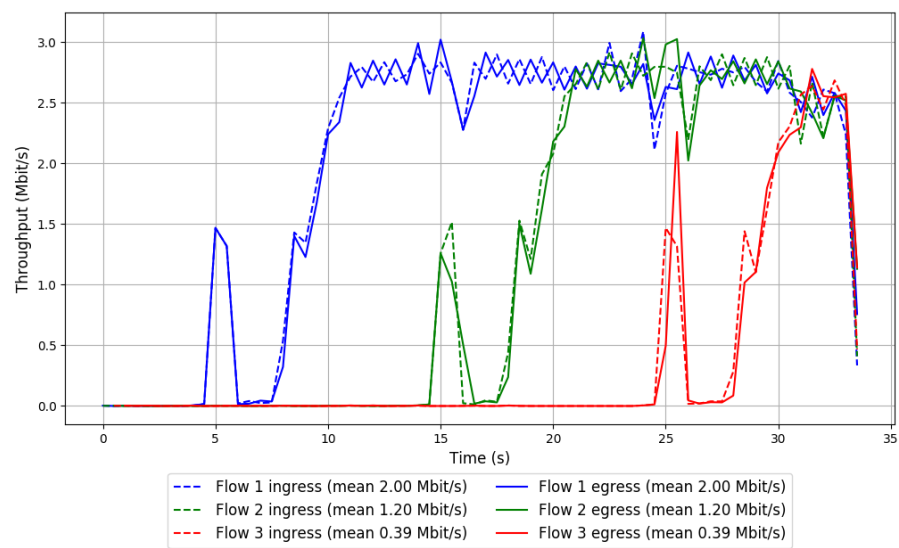


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-22 04:28:34
End at: 2017-11-22 04:29:04

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 136.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 136.522 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 136.121 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.498 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-22 04:43:03

End at: 2017-11-22 04:43:33

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.136 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 136.120 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 136.418 ms

Loss rate: 0.00%

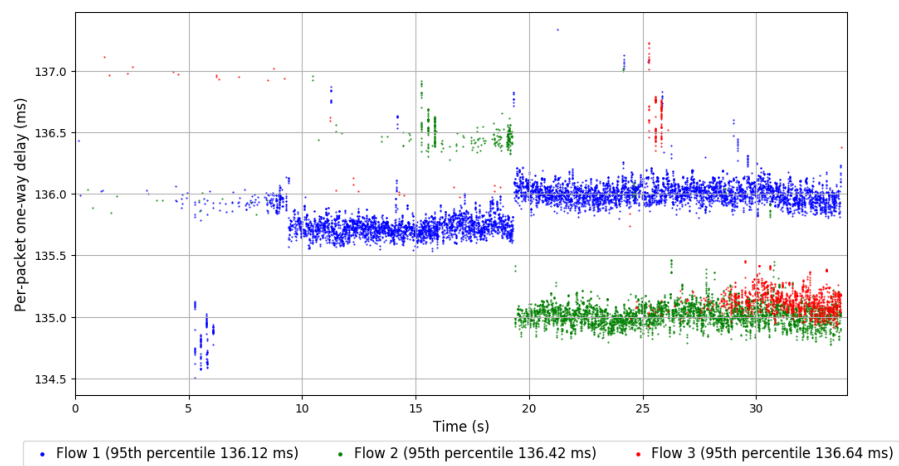
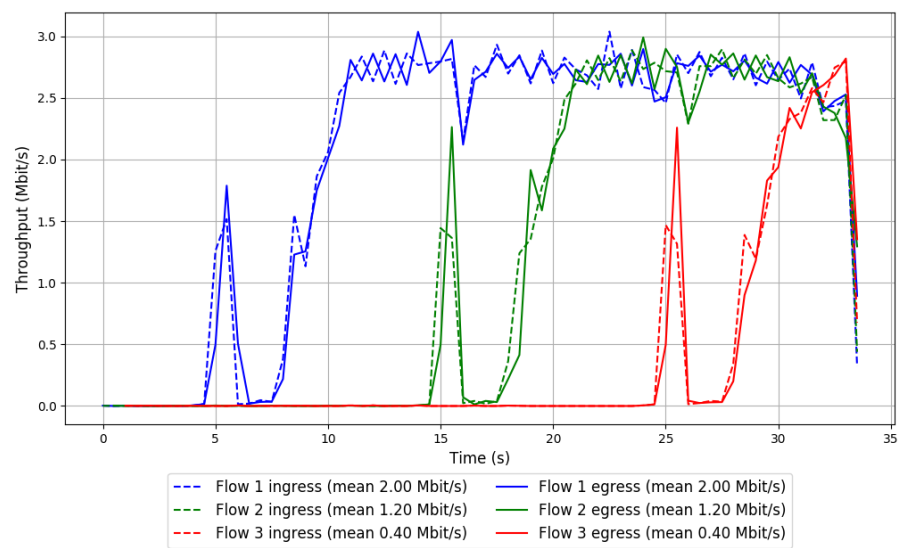
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.643 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-22 04:57:09

End at: 2017-11-22 04:57:39

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 136.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.142 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 135.637 ms

Loss rate: 0.00%

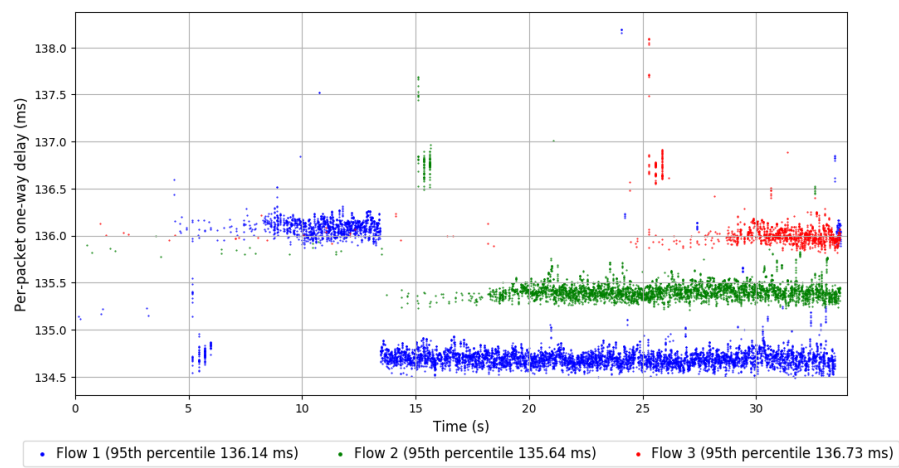
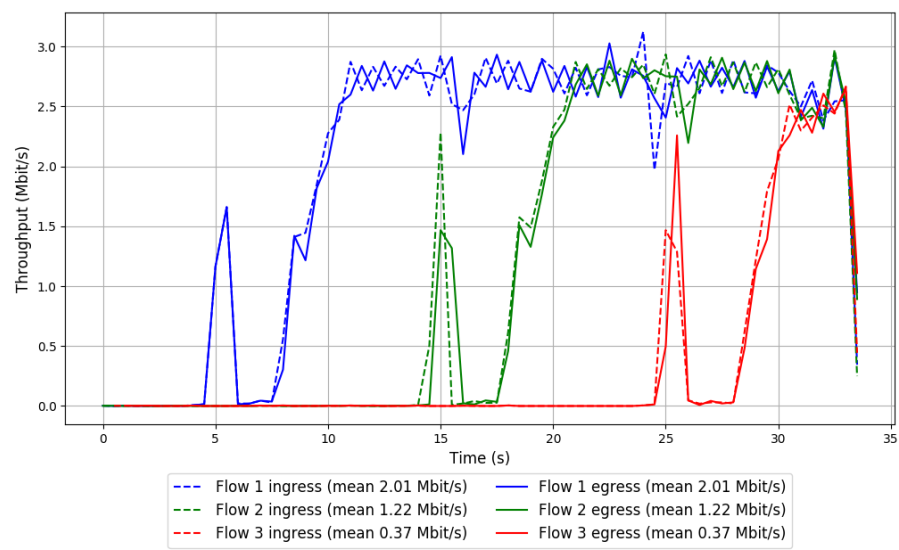
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.726 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-22 05:11:29

End at: 2017-11-22 05:11:59

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.529 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 136.532 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 135.961 ms

Loss rate: 0.00%

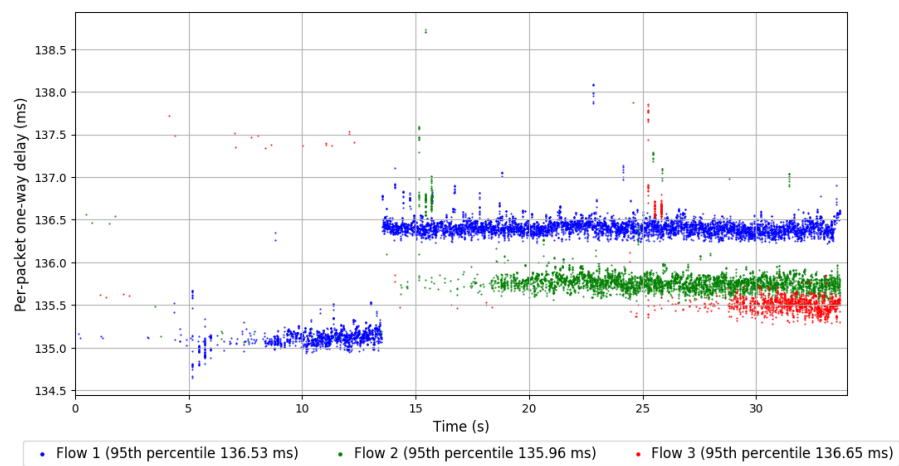
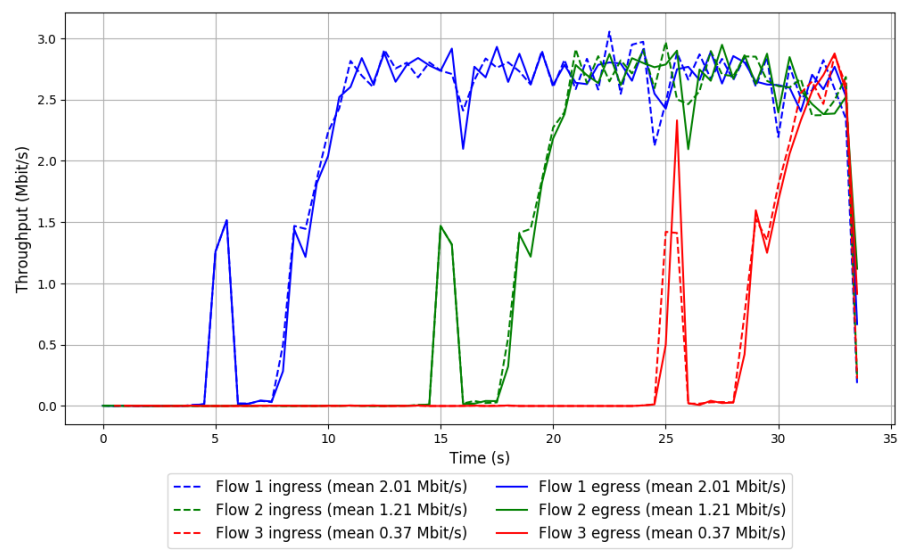
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.652 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-22 05:25:51

End at: 2017-11-22 05:26:21

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 137.083 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 135.367 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.152 ms

Loss rate: 0.00%

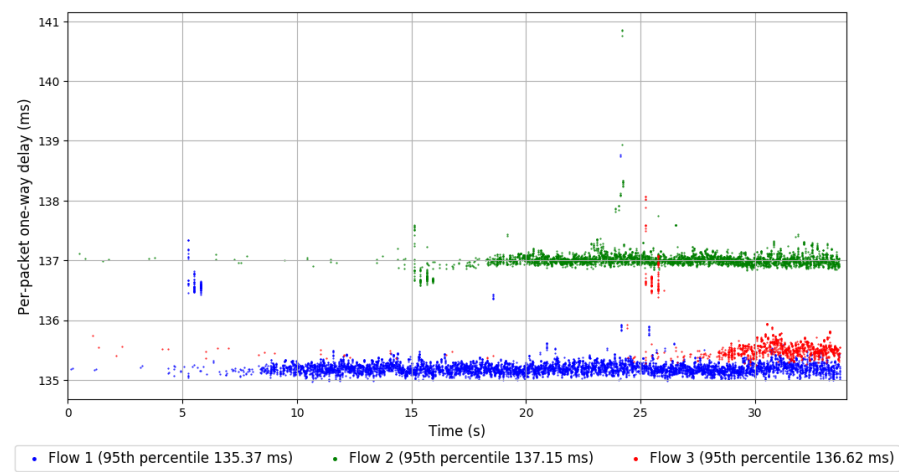
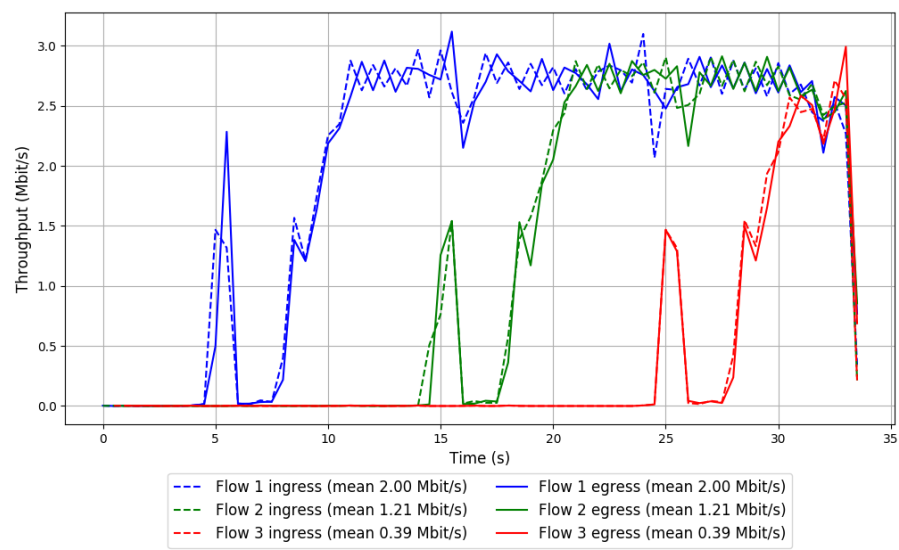
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-22 05:40:10

End at: 2017-11-22 05:40:40

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 137.227 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 137.250 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 0.00%

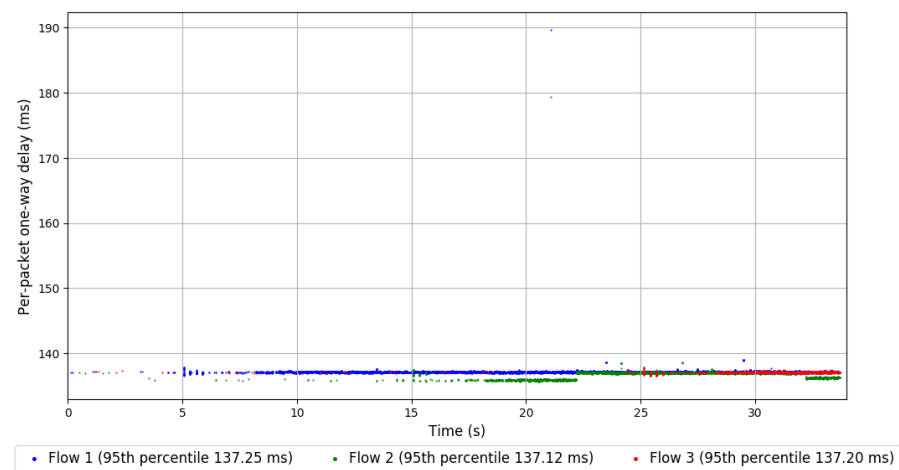
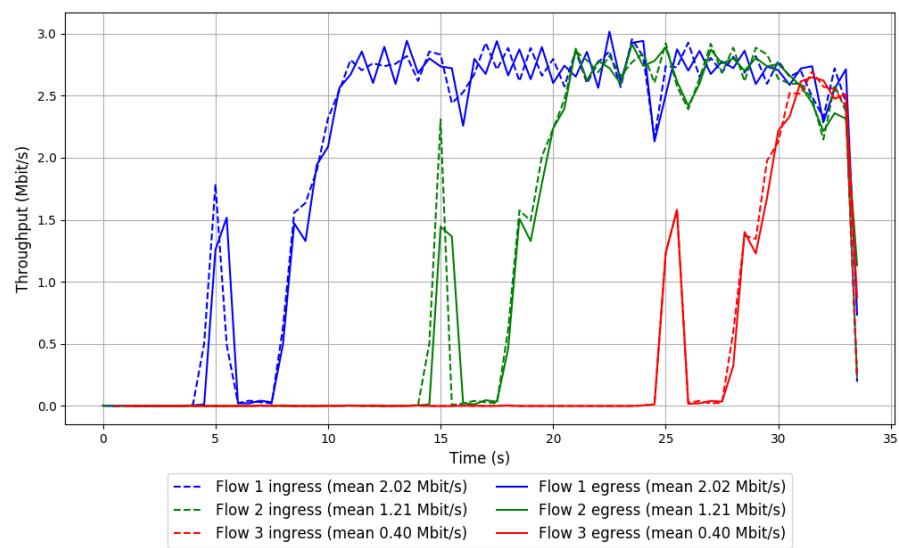
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.202 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-22 05:54:26

End at: 2017-11-22 05:54:56

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 137.419 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 137.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 137.253 ms

Loss rate: 0.00%

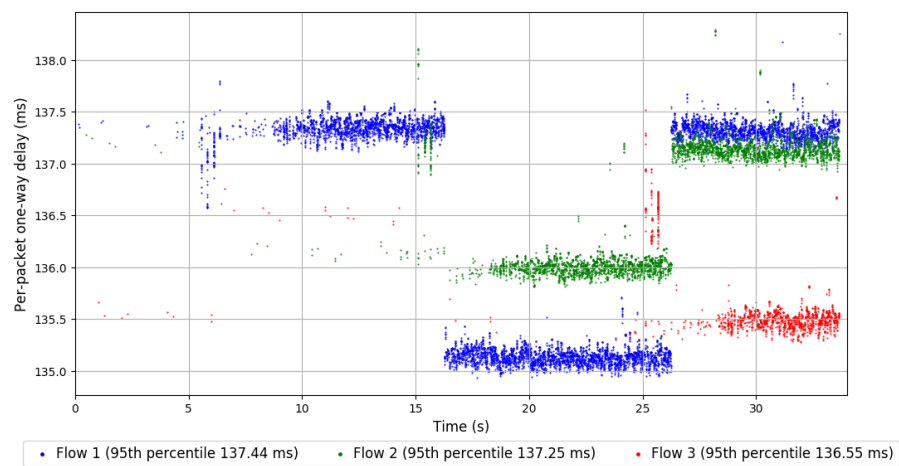
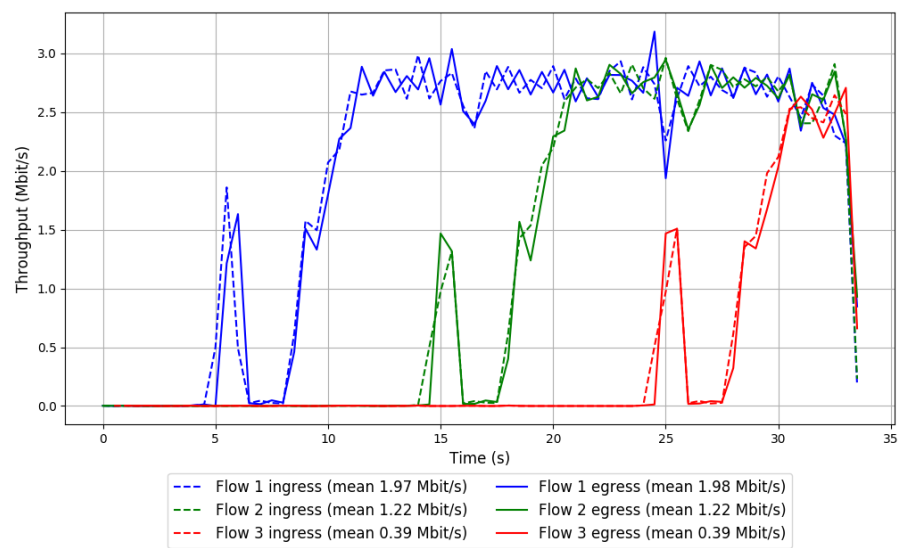
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.549 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-22 06:08:30

End at: 2017-11-22 06:09:00

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 137.460 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.00%

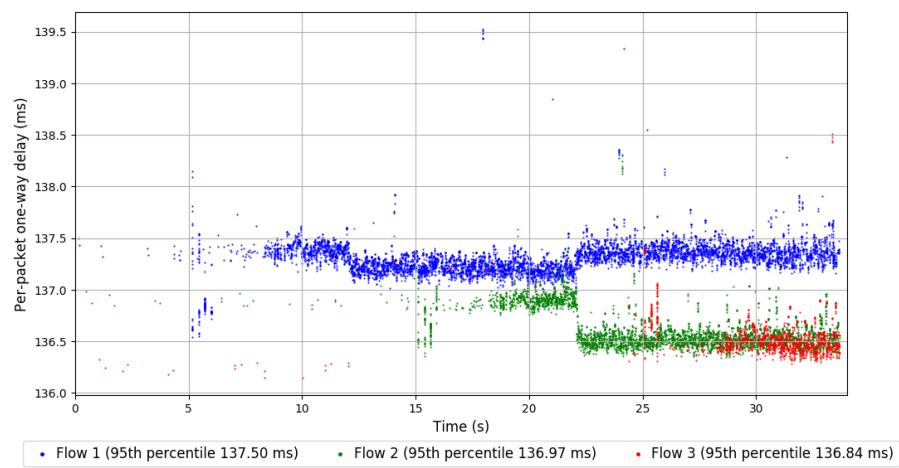
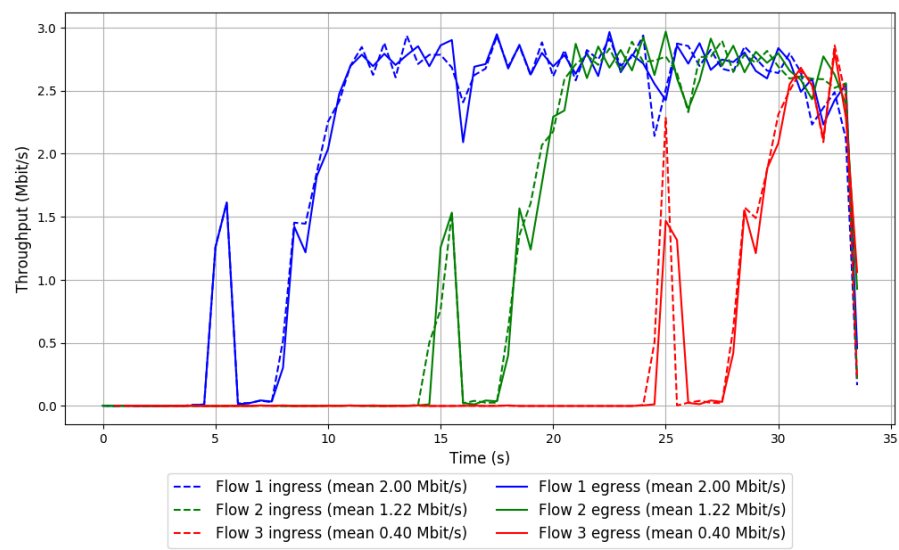
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.845 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-22 06:22:50

End at: 2017-11-22 06:23:20

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 136.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 135.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.00%

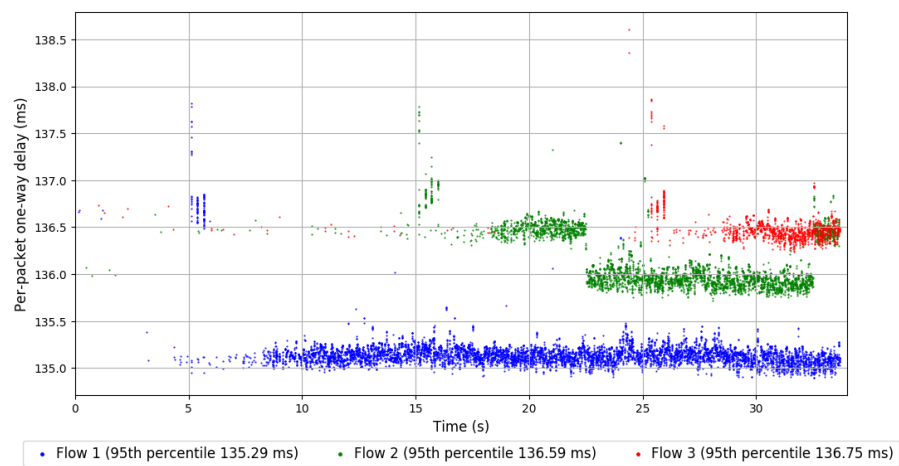
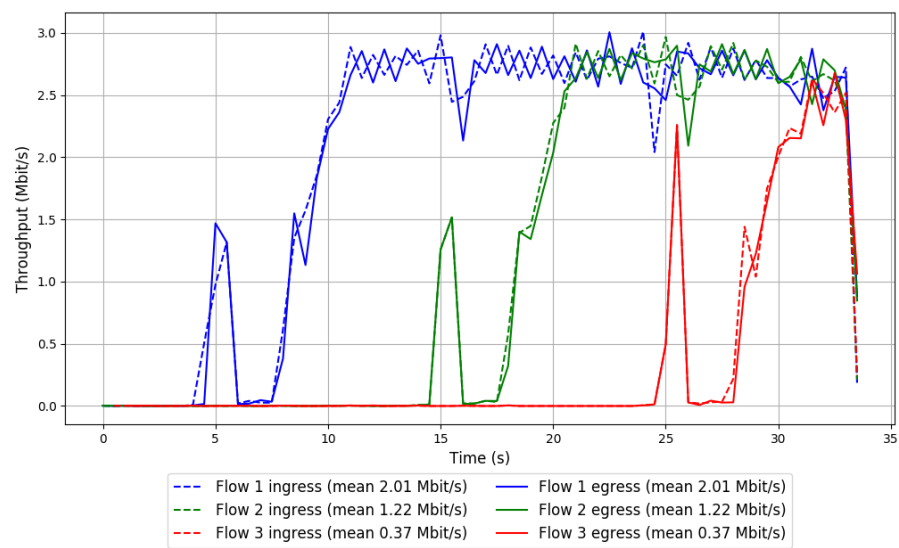
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.745 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-22 06:36:49

End at: 2017-11-22 06:37:19

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.238 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 0.00%

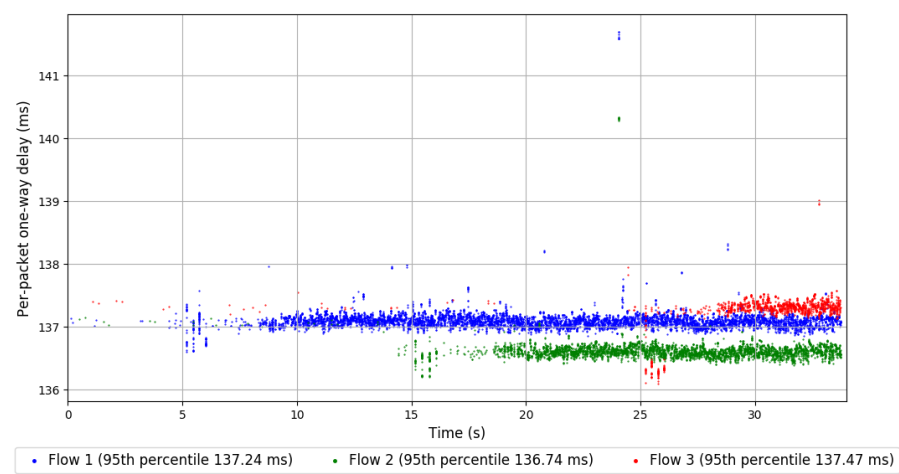
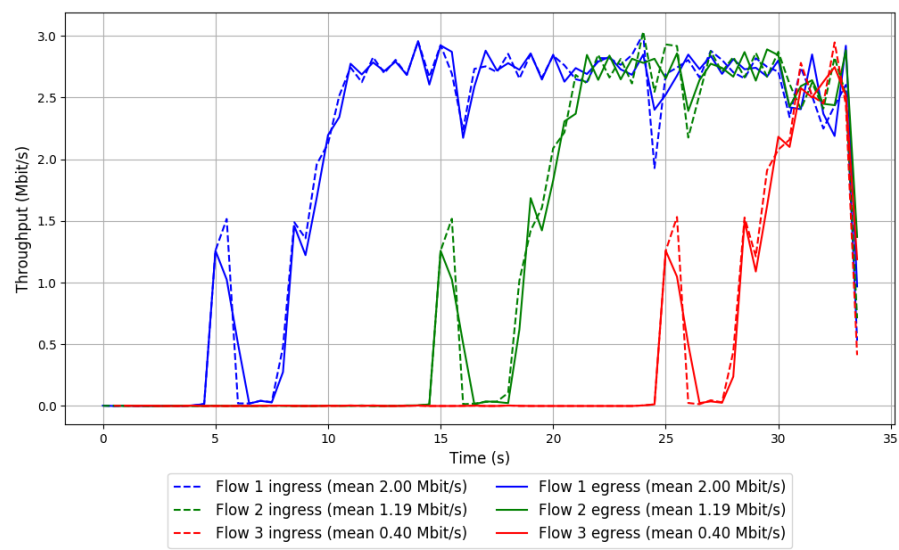
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.473 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

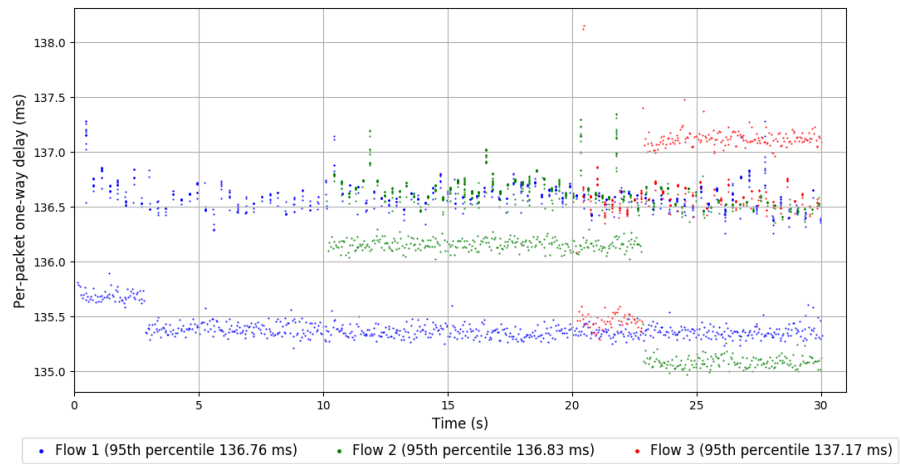
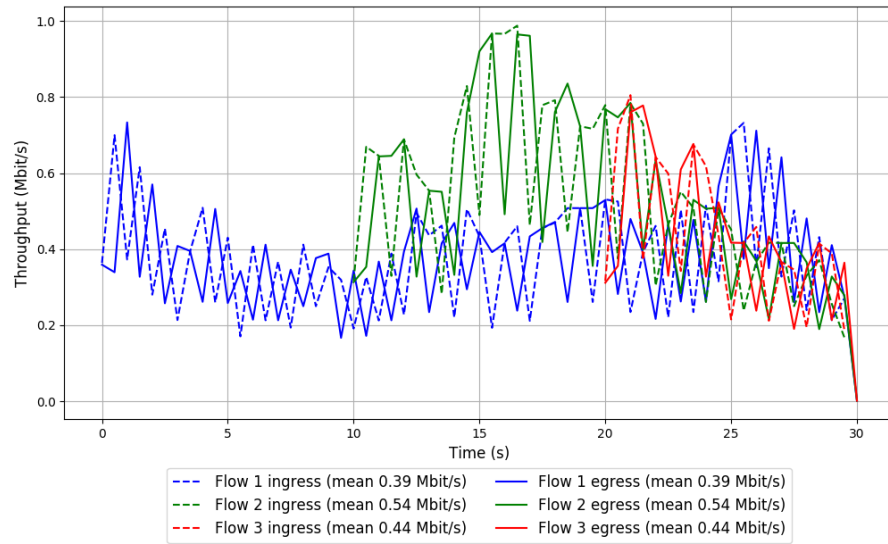


```
Run 1: Statistics of Sprout

Start at: 2017-11-22 04:23:16
End at: 2017-11-22 04:23:46

# Below is generated by plot.py at 2017-11-22 07:56:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 137.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 136.830 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.173 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-22 04:37:39

End at: 2017-11-22 04:38:09

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 135.905 ms

Loss rate: 0.00%

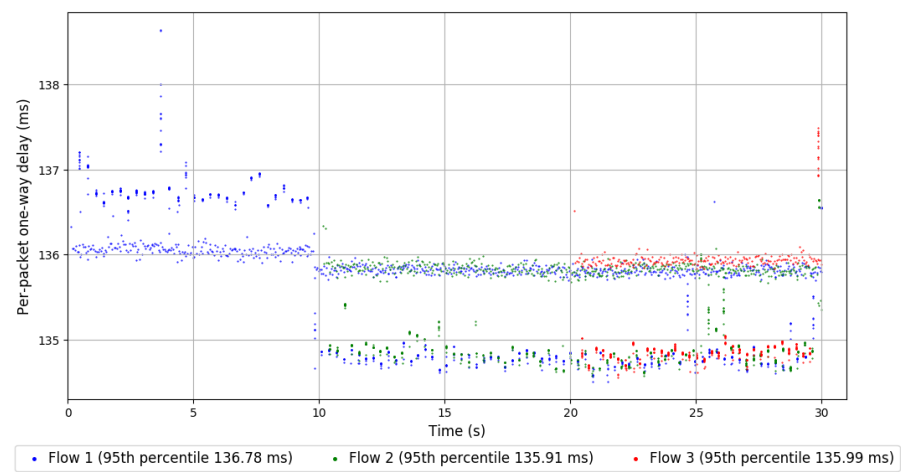
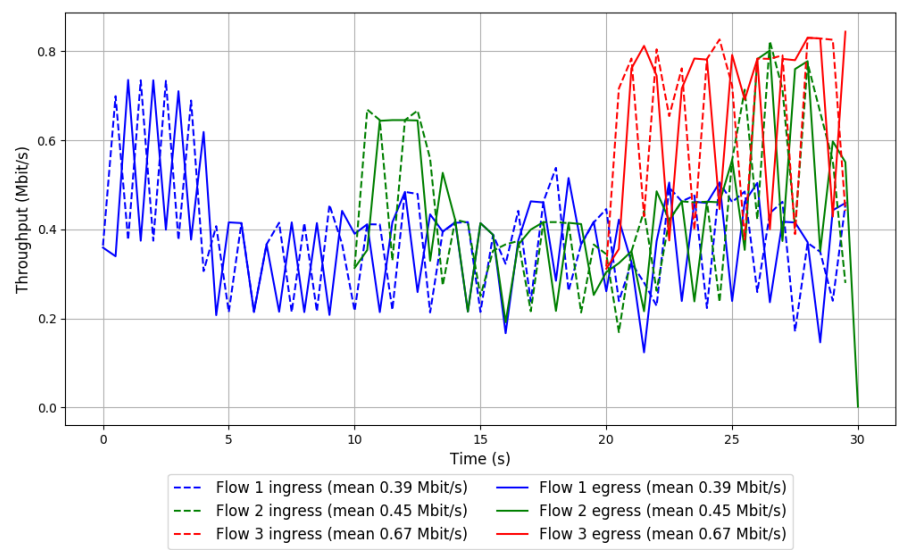
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 135.990 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-22 04:52:10

End at: 2017-11-22 04:52:40

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.811 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 136.859 ms

Loss rate: 0.00%

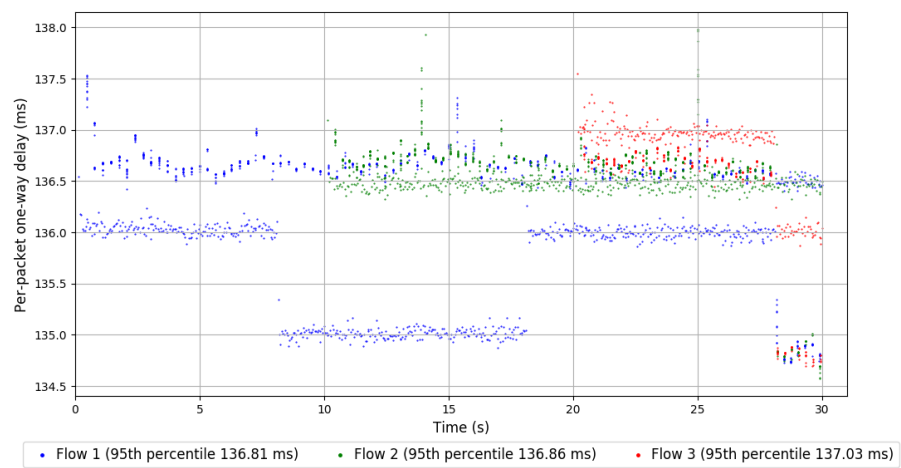
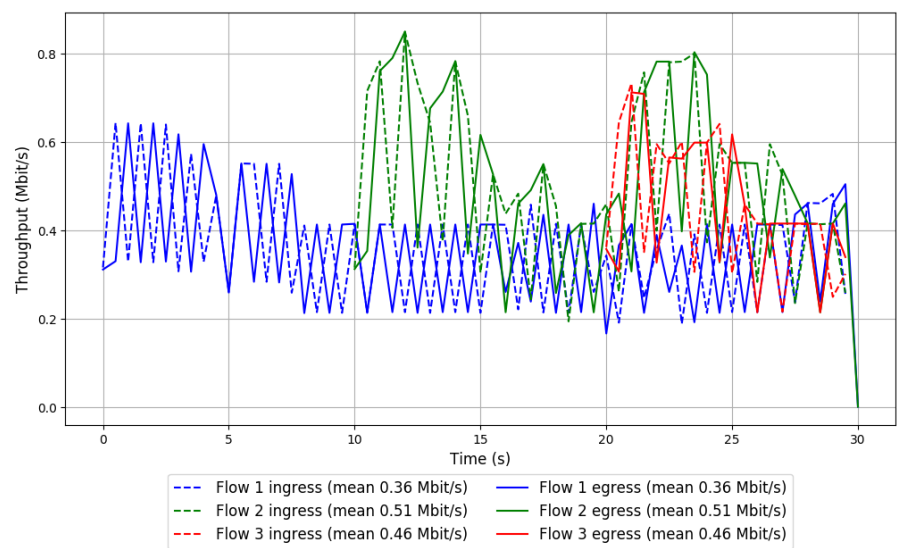
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.029 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-22 05:06:12

End at: 2017-11-22 05:06:42

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.94 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 137.301 ms

Loss rate: 0.00%

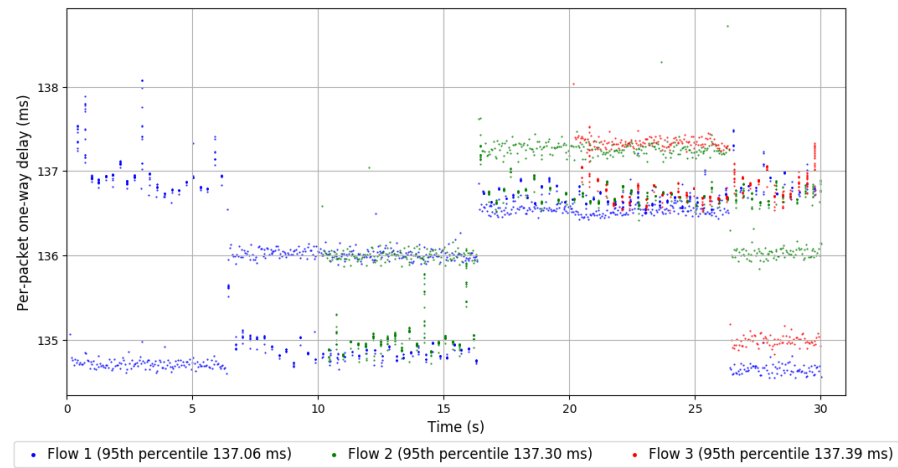
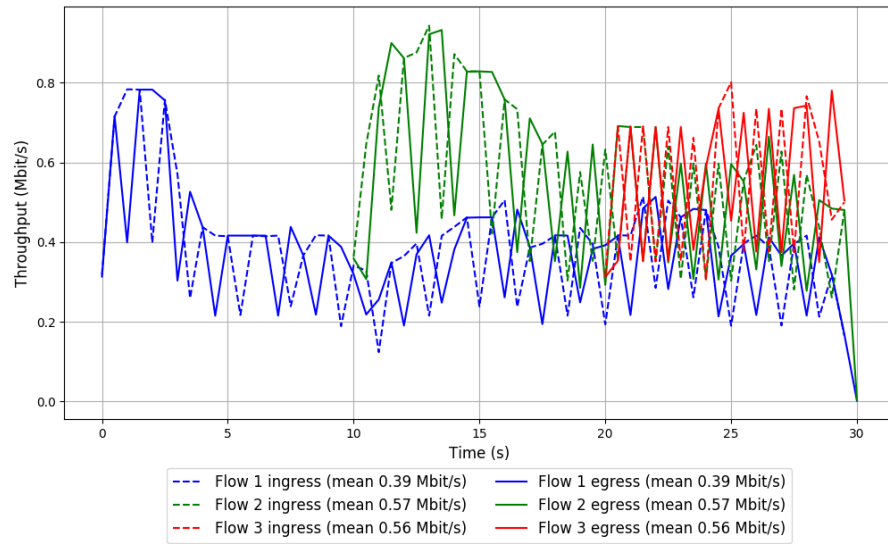
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 137.386 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-22 05:20:34

End at: 2017-11-22 05:21:04

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 136.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.838 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.884 ms

Loss rate: 0.00%

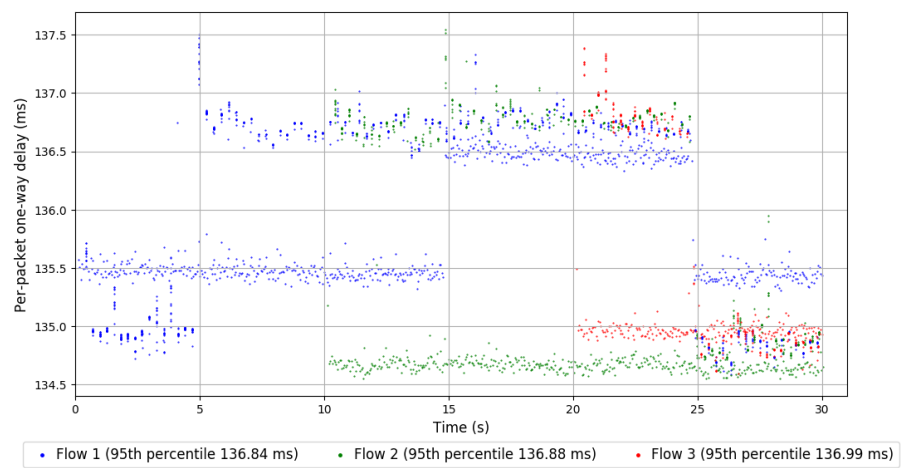
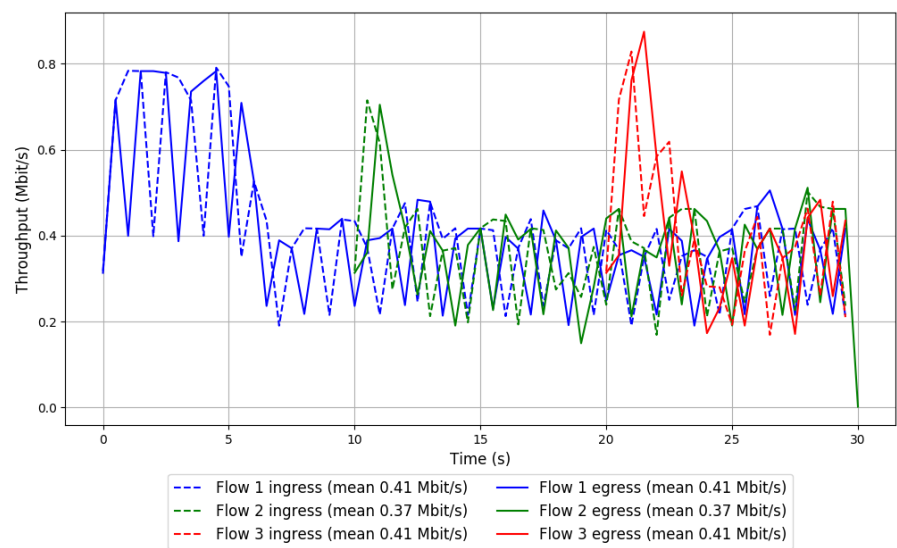
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.990 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-22 05:34:54

End at: 2017-11-22 05:35:24

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 137.257 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.225 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.247 ms

Loss rate: 0.00%

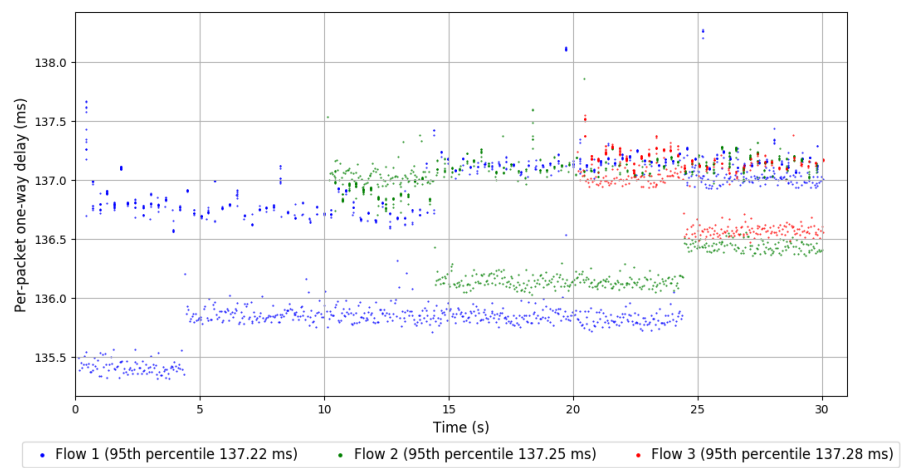
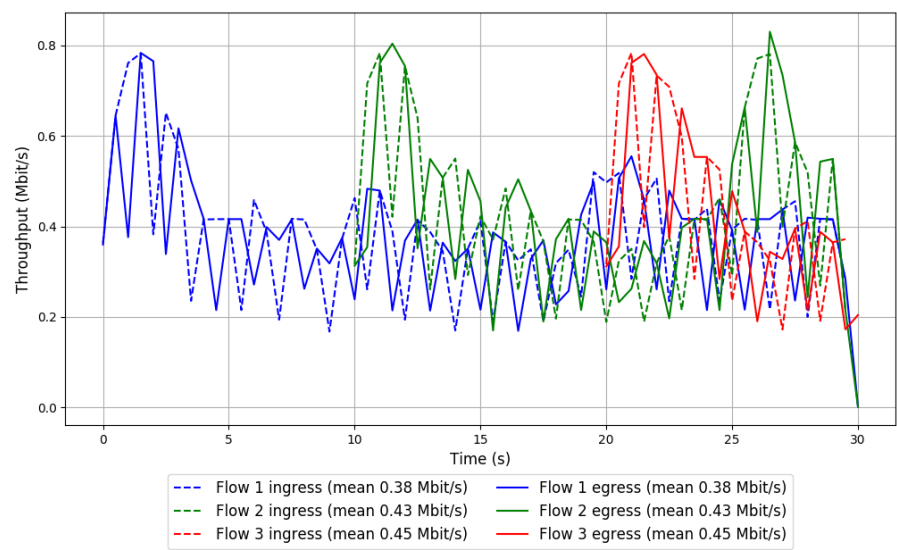
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.280 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-22 05:49:12

End at: 2017-11-22 05:49:42

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 137.269 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 137.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 0.00%

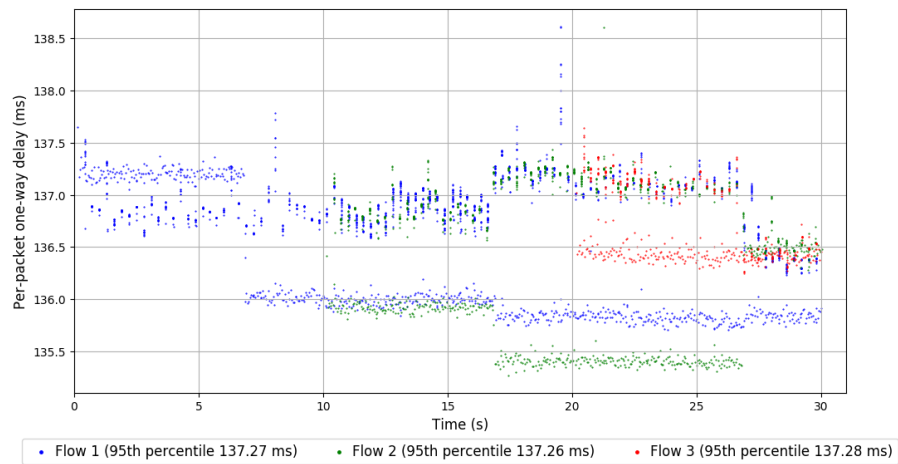
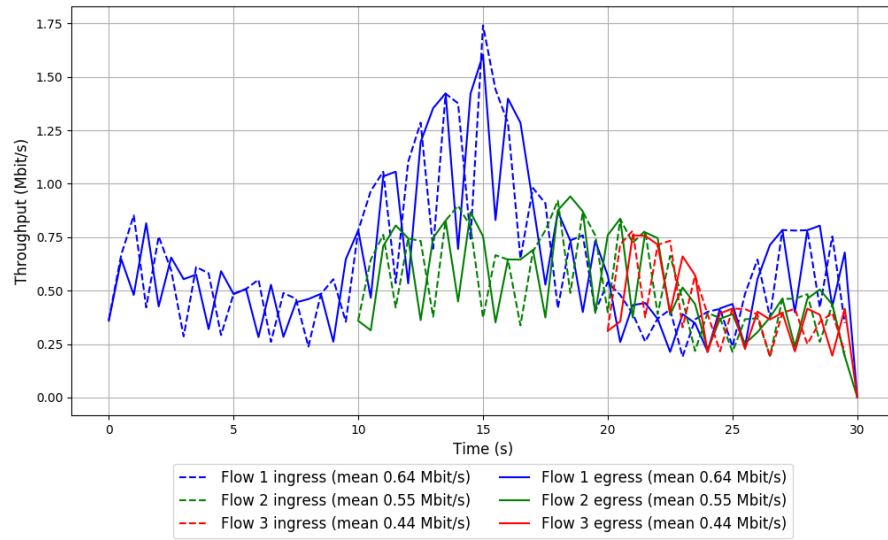
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.276 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-22 06:03:29

End at: 2017-11-22 06:03:59

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.87 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.899 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.281 ms

Loss rate: 0.00%

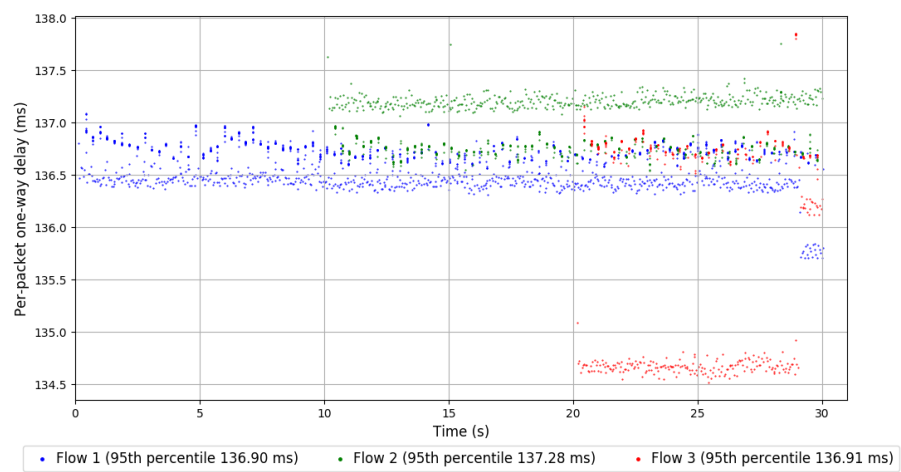
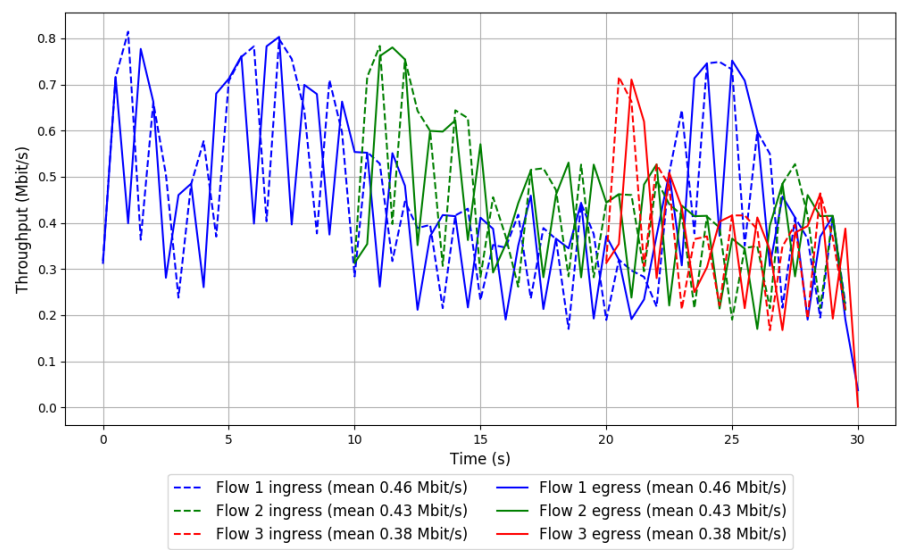
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.912 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-22 06:17:35

End at: 2017-11-22 06:18:05

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 136.887 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.829 ms

Loss rate: 0.00%

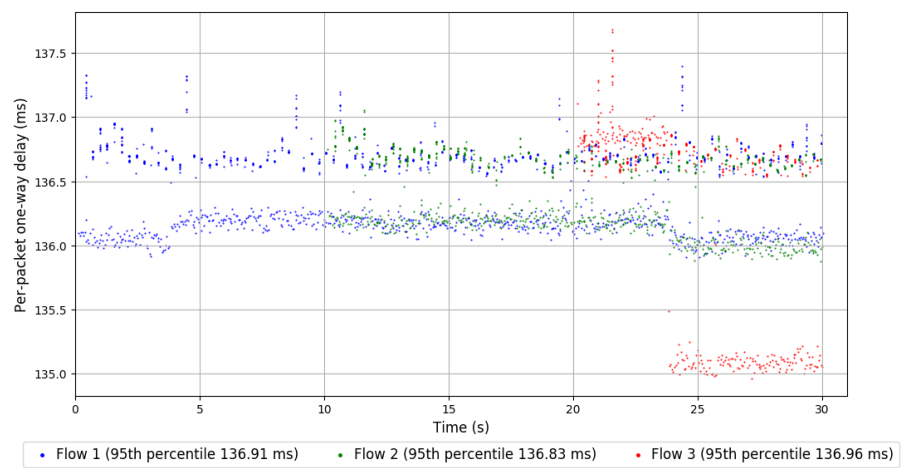
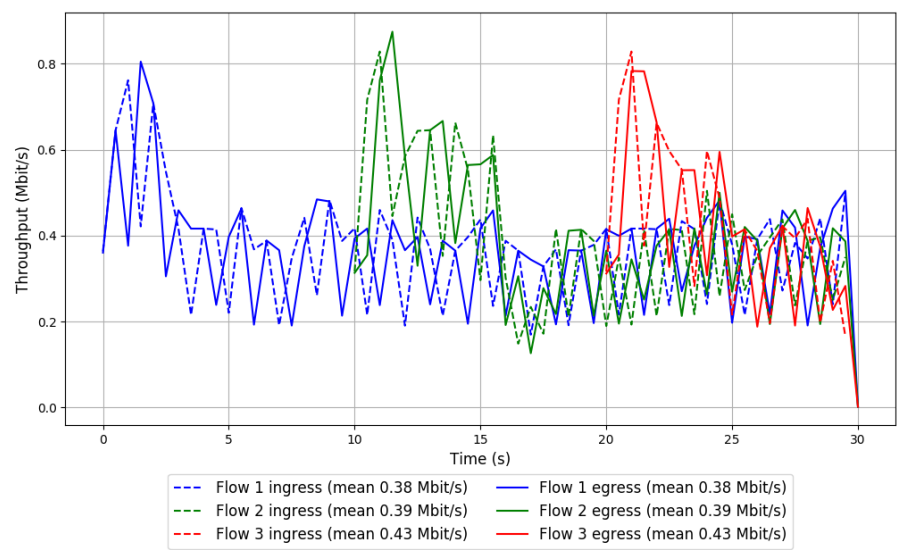
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-22 06:31:54

End at: 2017-11-22 06:32:24

Below is generated by plot.py at 2017-11-22 07:56:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 137.239 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 137.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.173 ms

Loss rate: 0.00%

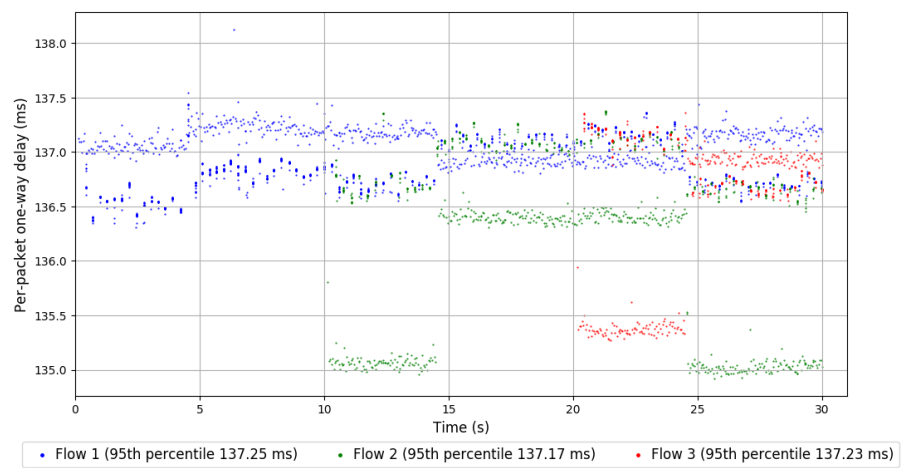
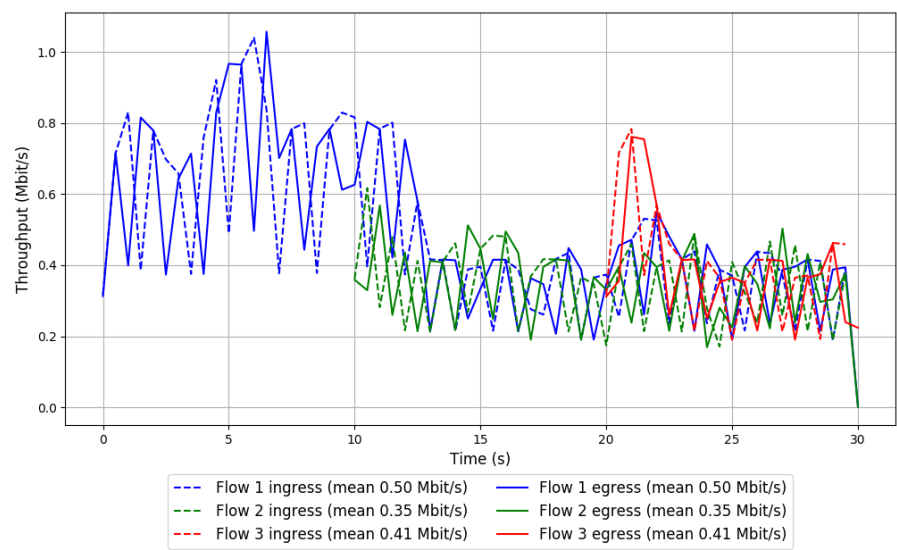
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 137.227 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

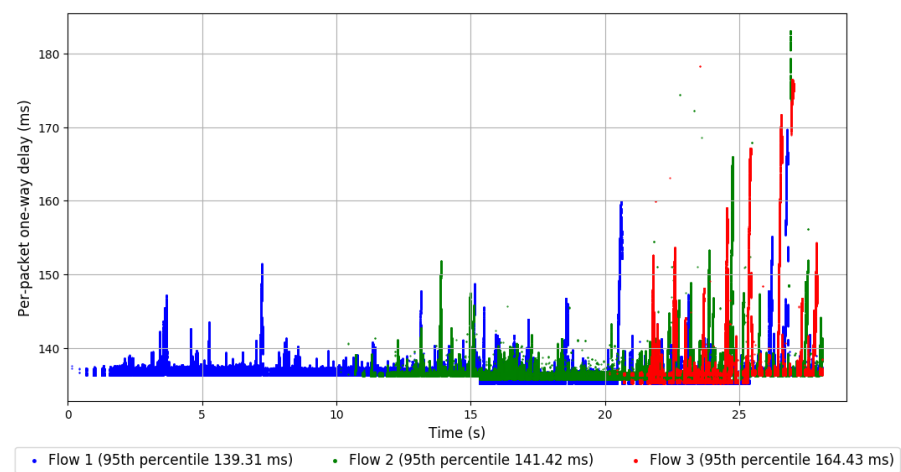
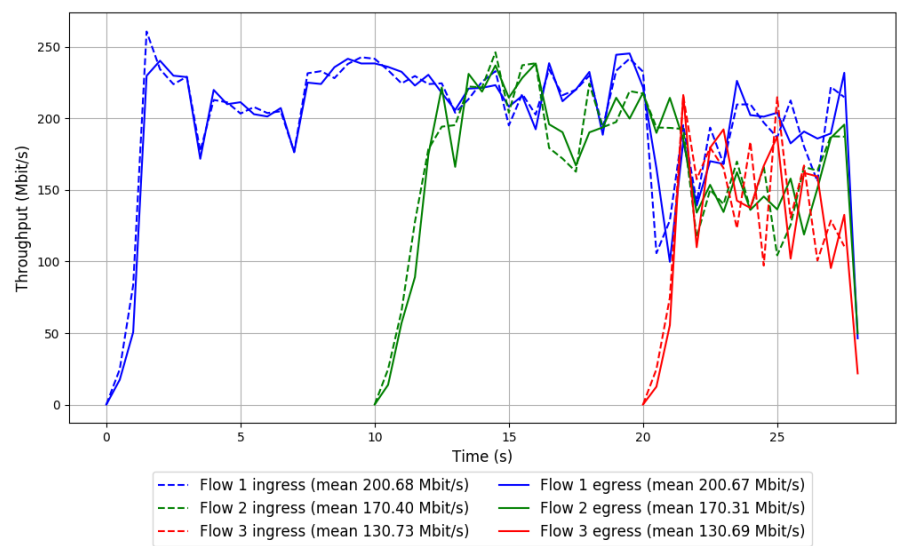


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-22 04:26:01
End at: 2017-11-22 04:26:31

# Below is generated by plot.py at 2017-11-22 07:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.09 Mbit/s
95th percentile per-packet one-way delay: 142.086 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 200.67 Mbit/s
95th percentile per-packet one-way delay: 139.314 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 170.31 Mbit/s
95th percentile per-packet one-way delay: 141.418 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 130.69 Mbit/s
95th percentile per-packet one-way delay: 164.433 ms
Loss rate: 0.03%
```


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

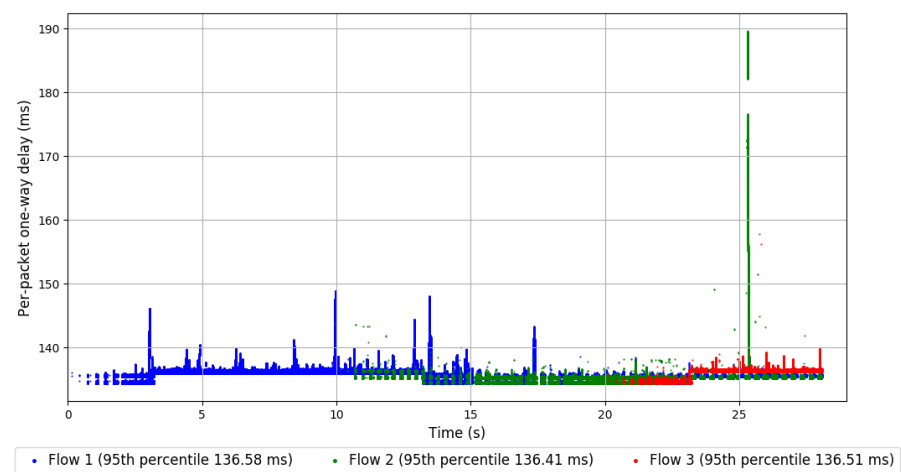
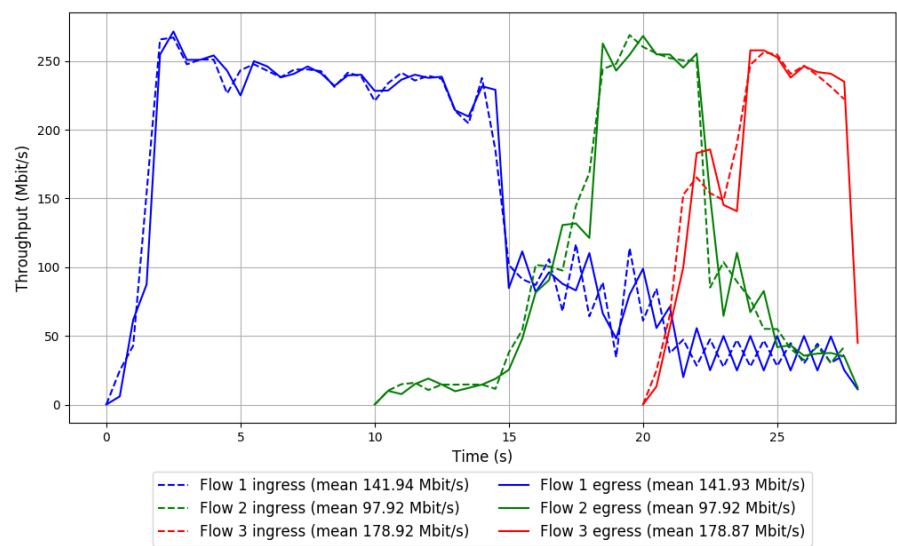


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-22 04:40:33
End at: 2017-11-22 04:41:03

# Below is generated by plot.py at 2017-11-22 07:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.49 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 141.93 Mbit/s
95th percentile per-packet one-way delay: 136.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 97.92 Mbit/s
95th percentile per-packet one-way delay: 136.408 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 178.87 Mbit/s
95th percentile per-packet one-way delay: 136.510 ms
Loss rate: 0.00%
```

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

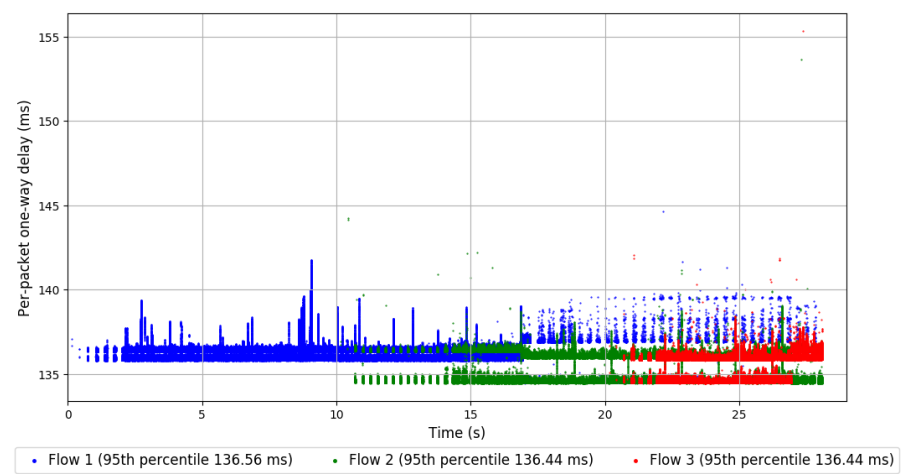
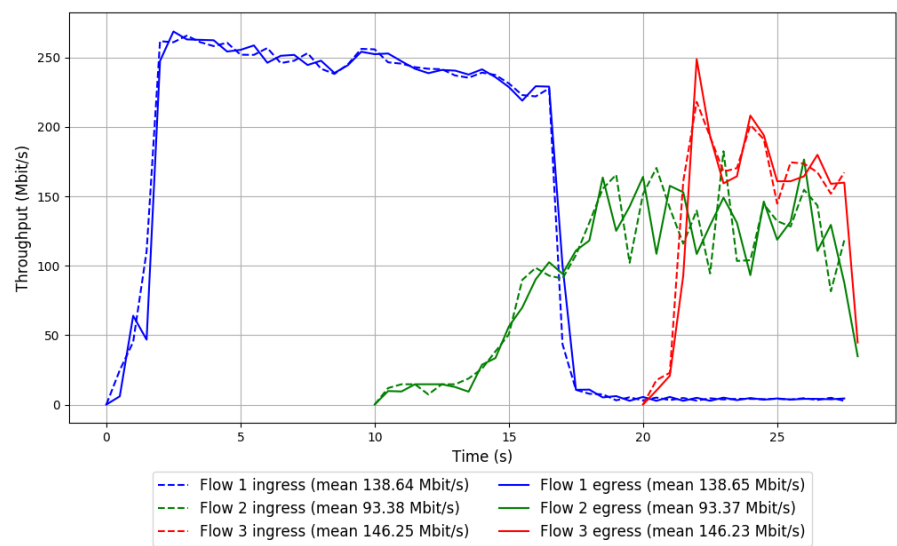


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-22 04:54:50
End at: 2017-11-22 04:55:20

# Below is generated by plot.py at 2017-11-22 07:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.27 Mbit/s
95th percentile per-packet one-way delay: 136.513 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 138.65 Mbit/s
95th percentile per-packet one-way delay: 136.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 93.37 Mbit/s
95th percentile per-packet one-way delay: 136.435 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 146.23 Mbit/s
95th percentile per-packet one-way delay: 136.440 ms
Loss rate: 0.02%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-22 05:08:48

End at: 2017-11-22 05:09:18

Below is generated by plot.py at 2017-11-22 08:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.06 Mbit/s

95th percentile per-packet one-way delay: 139.100 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.23 Mbit/s

95th percentile per-packet one-way delay: 139.482 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 214.11 Mbit/s

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

Loss rate: 0.00%

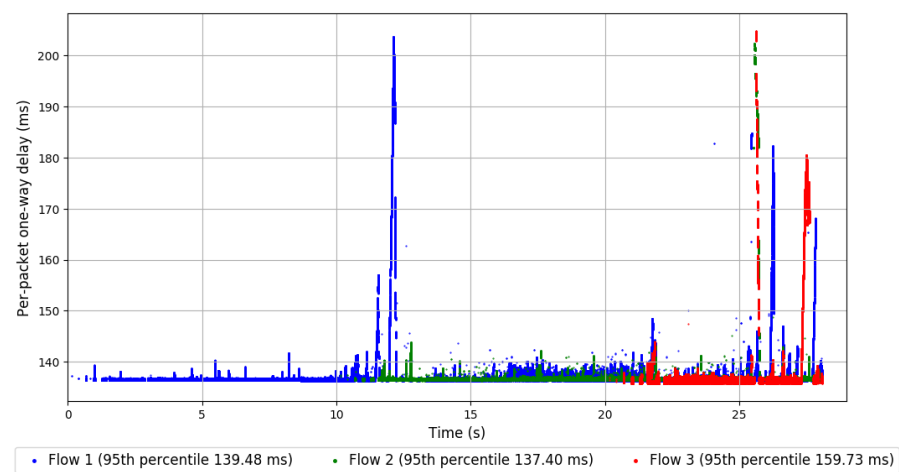
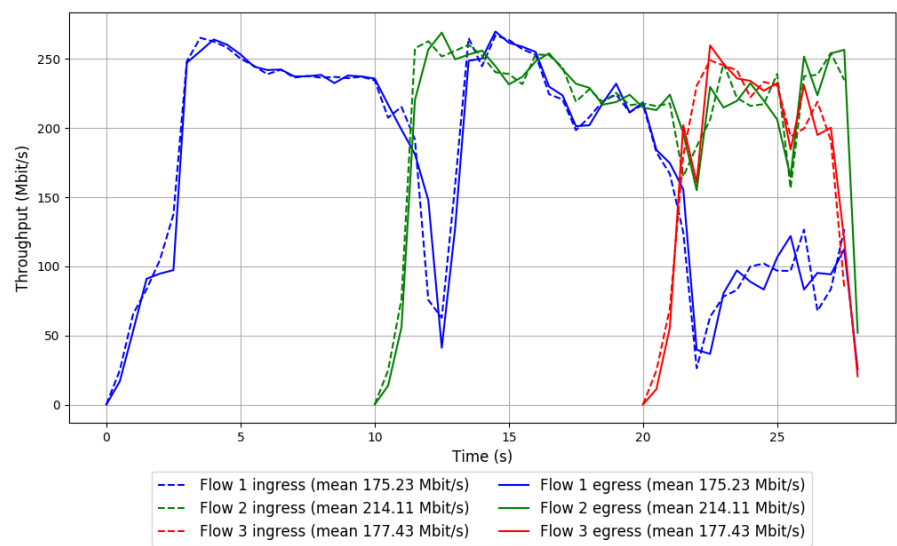
-- Flow 3:

Average throughput: 177.43 Mbit/s

95th percentile per-packet one-way delay: 159.734 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-22 05:23:05

End at: 2017-11-22 05:23:35

Below is generated by plot.py at 2017-11-22 08:00:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.03 Mbit/s

95th percentile per-packet one-way delay: 140.515 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 200.92 Mbit/s

95th percentile per-packet one-way delay: 141.521 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 192.67 Mbit/s

95th percentile per-packet one-way delay: 138.297 ms

Loss rate: 0.01%

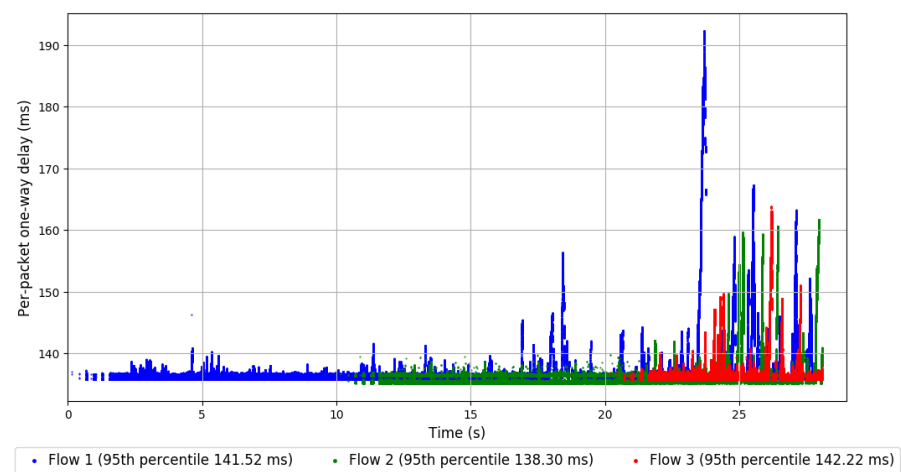
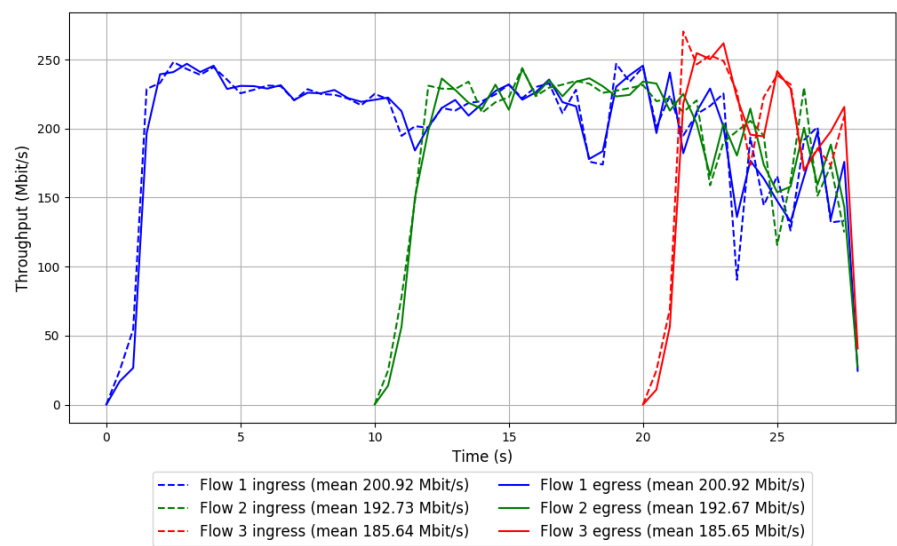
-- Flow 3:

Average throughput: 185.65 Mbit/s

95th percentile per-packet one-way delay: 142.225 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-22 05:37:35

End at: 2017-11-22 05:38:05

Below is generated by plot.py at 2017-11-22 08:00:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.37 Mbit/s

95th percentile per-packet one-way delay: 146.033 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 204.55 Mbit/s

95th percentile per-packet one-way delay: 138.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.07 Mbit/s

95th percentile per-packet one-way delay: 151.230 ms

Loss rate: 0.00%

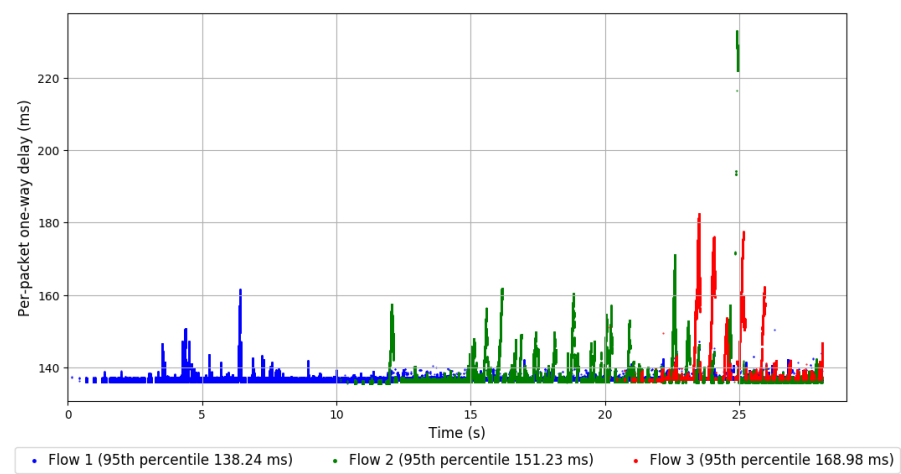
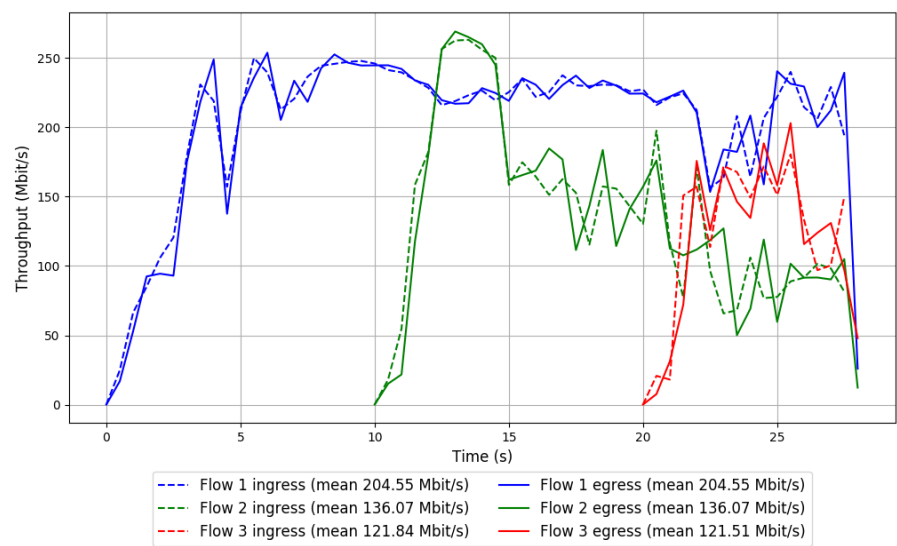
-- Flow 3:

Average throughput: 121.51 Mbit/s

95th percentile per-packet one-way delay: 168.979 ms

Loss rate: 0.26%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-22 05:51:51

End at: 2017-11-22 05:52:21

Below is generated by plot.py at 2017-11-22 08:04:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.32 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.41 Mbit/s

95th percentile per-packet one-way delay: 137.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 206.15 Mbit/s

95th percentile per-packet one-way delay: 137.049 ms

Loss rate: 0.00%

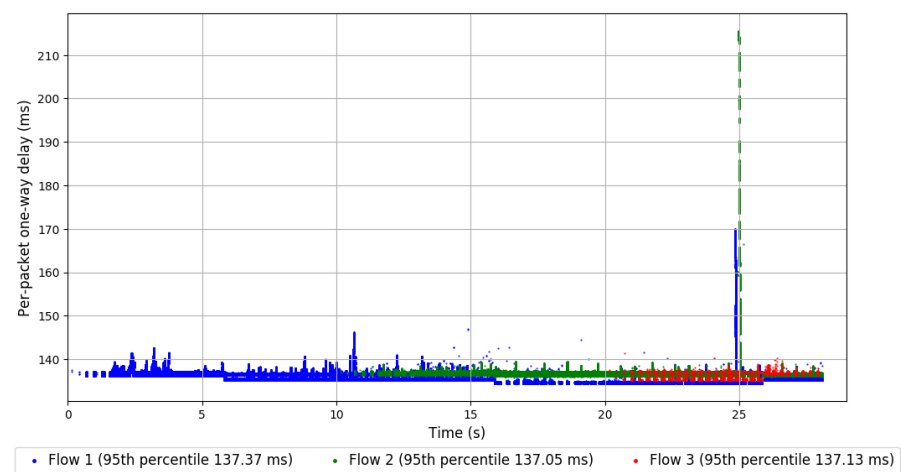
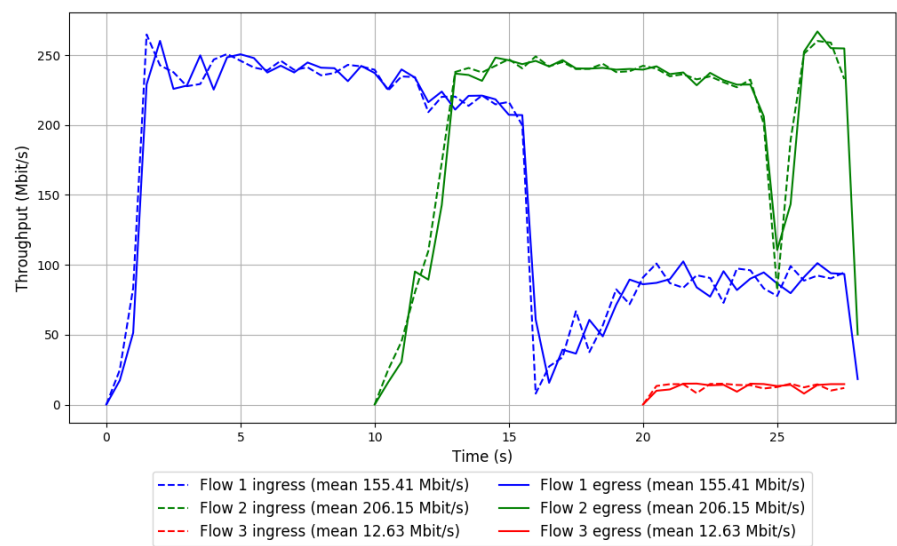
-- Flow 3:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 137.131 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-22 06:06:02

End at: 2017-11-22 06:06:32

Below is generated by plot.py at 2017-11-22 08:04:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.43 Mbit/s

95th percentile per-packet one-way delay: 139.104 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 103.97 Mbit/s

95th percentile per-packet one-way delay: 137.133 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.76 Mbit/s

95th percentile per-packet one-way delay: 138.999 ms

Loss rate: 0.00%

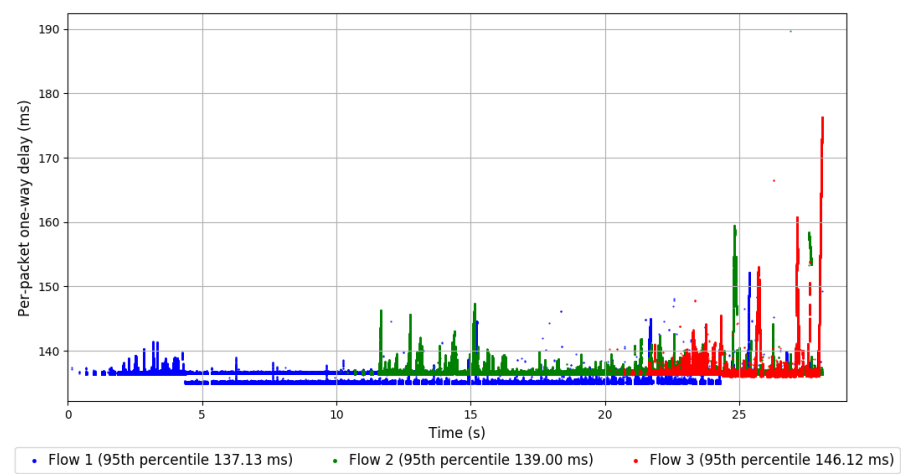
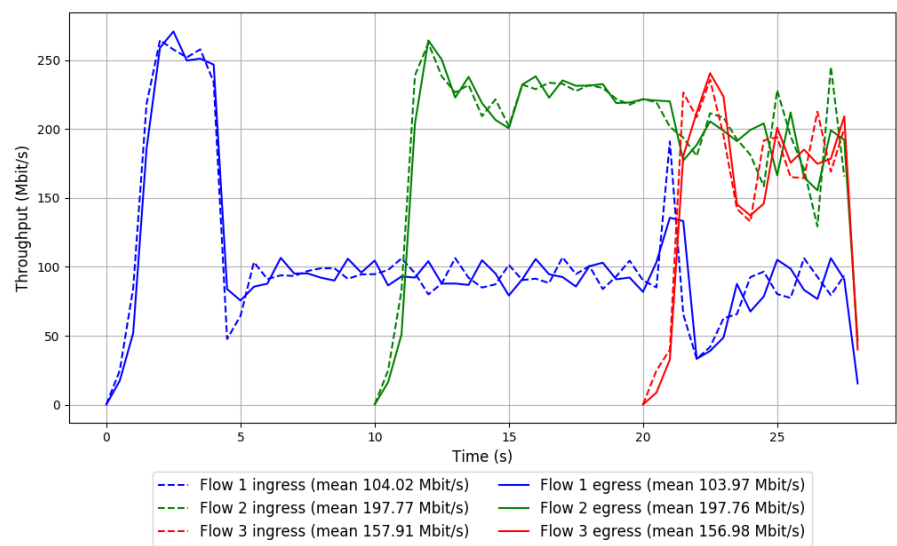
-- Flow 3:

Average throughput: 156.98 Mbit/s

95th percentile per-packet one-way delay: 146.117 ms

Loss rate: 0.50%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-22 06:20:16

End at: 2017-11-22 06:20:46

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.28 Mbit/s

95th percentile per-packet one-way delay: 137.139 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 202.06 Mbit/s

95th percentile per-packet one-way delay: 137.436 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.05 Mbit/s

95th percentile per-packet one-way delay: 136.819 ms

Loss rate: 0.00%

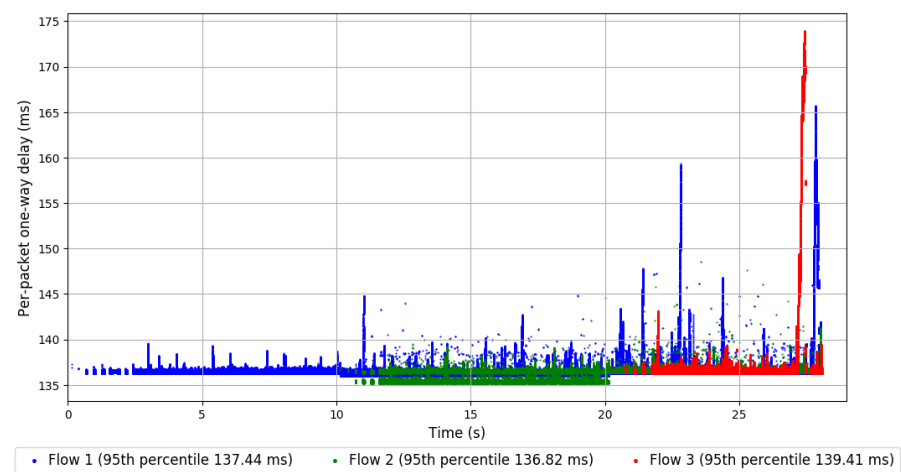
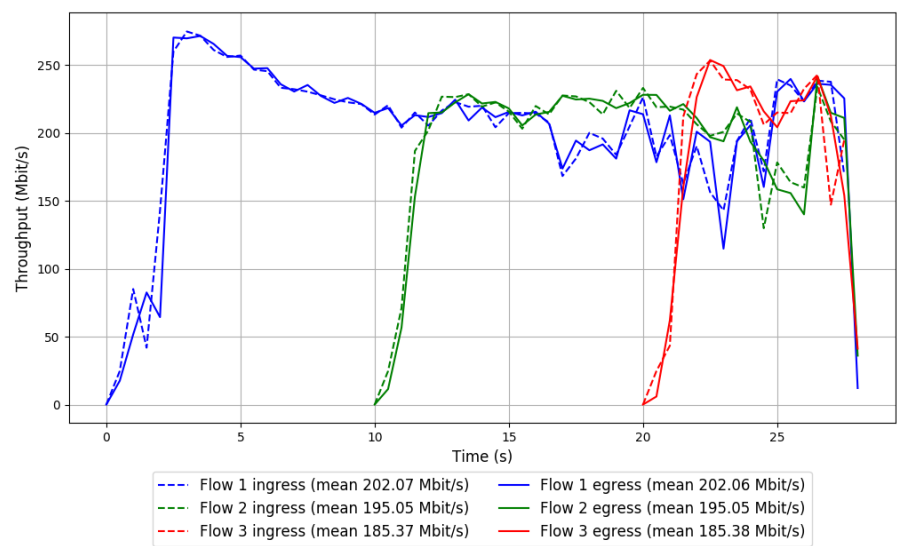
-- Flow 3:

Average throughput: 185.38 Mbit/s

95th percentile per-packet one-way delay: 139.415 ms

Loss rate: 0.00%

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

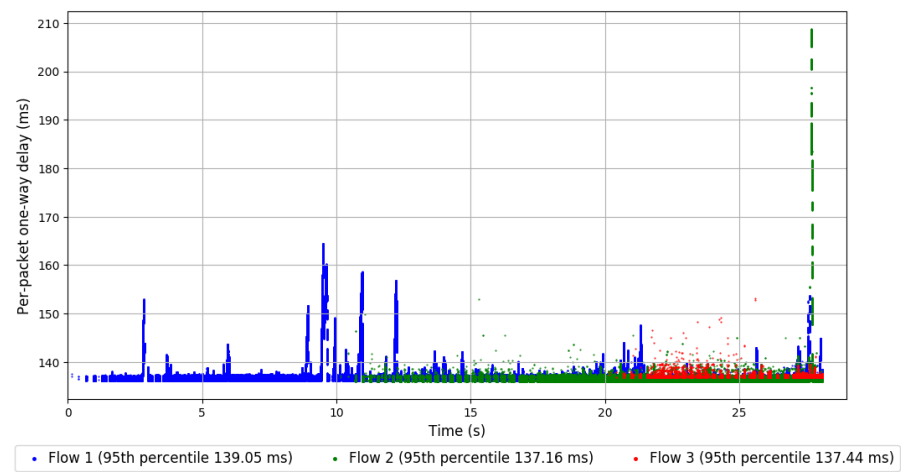
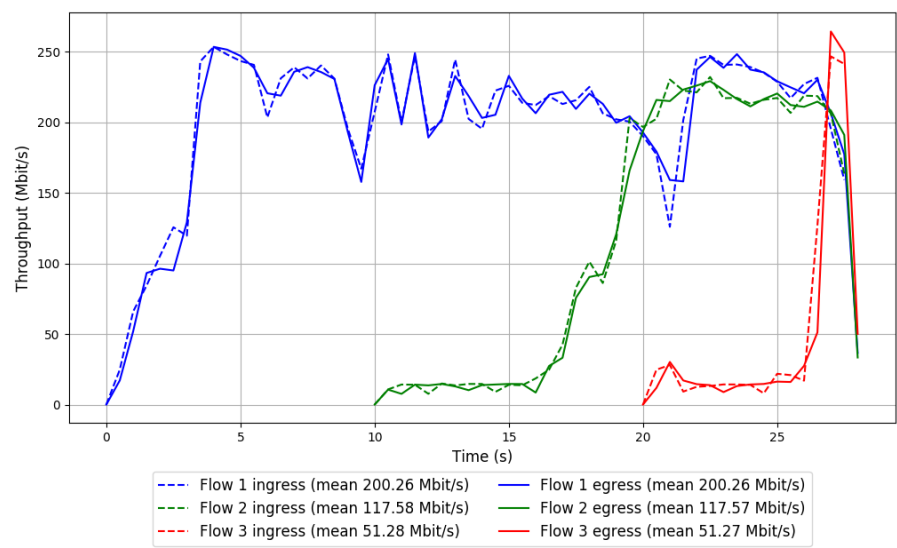


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-22 06:34:23
End at: 2017-11-22 06:34:53

# Below is generated by plot.py at 2017-11-22 08:07:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.29 Mbit/s
95th percentile per-packet one-way delay: 138.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.26 Mbit/s
95th percentile per-packet one-way delay: 139.052 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 117.57 Mbit/s
95th percentile per-packet one-way delay: 137.160 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 137.443 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-22 04:21:10

End at: 2017-11-22 04:21:40

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 143.682 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 143.785 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.84 Mbit/s

95th percentile per-packet one-way delay: 139.392 ms

Loss rate: 0.00%

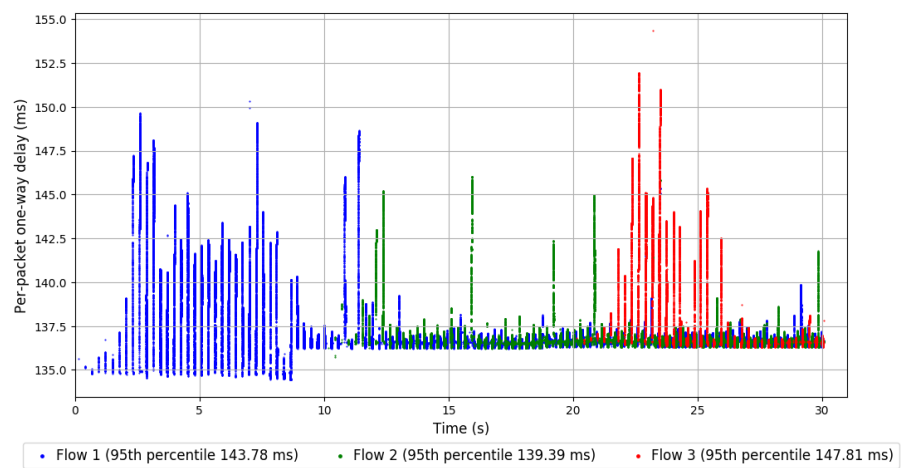
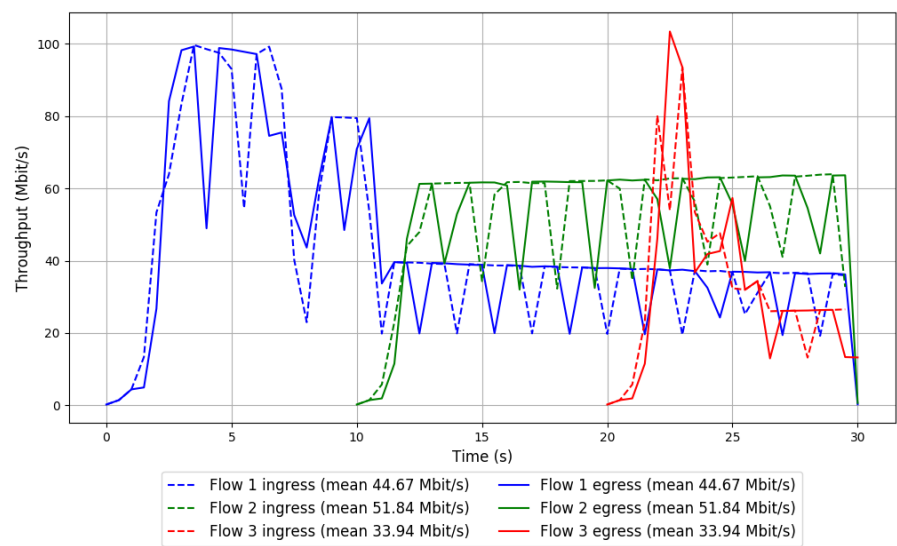
-- Flow 3:

Average throughput: 33.94 Mbit/s

95th percentile per-packet one-way delay: 147.810 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-22 04:35:33

End at: 2017-11-22 04:36:03

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.12 Mbit/s

95th percentile per-packet one-way delay: 144.955 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 138.382 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 142.299 ms

Loss rate: 0.02%

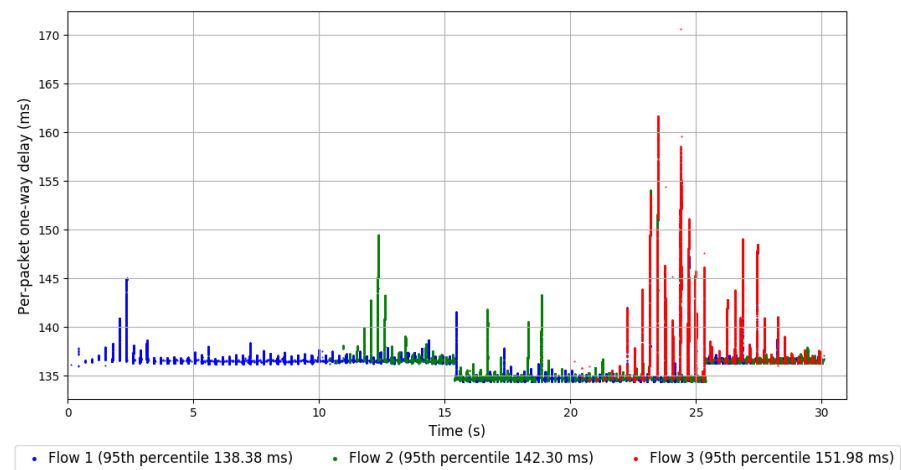
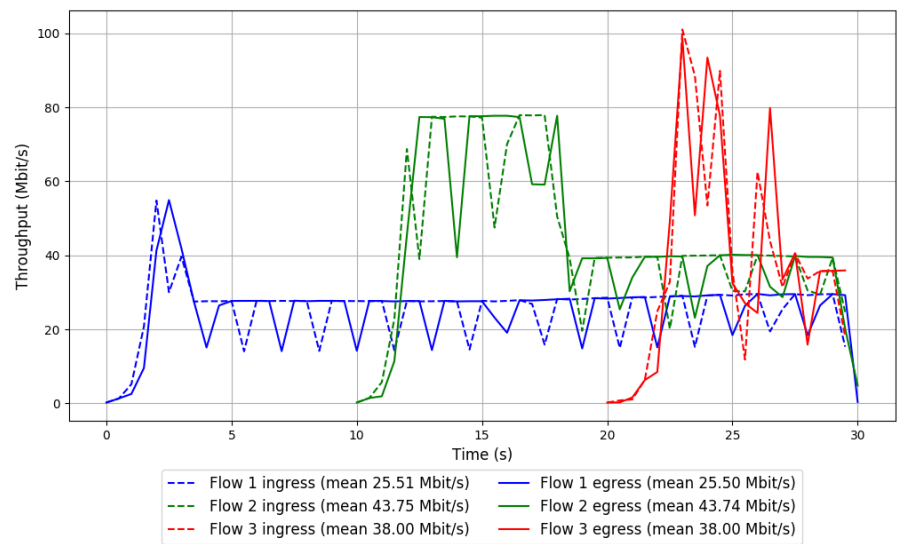
-- Flow 3:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 151.982 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-22 04:50:05

End at: 2017-11-22 04:50:35

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 143.715 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 141.516 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 144.204 ms

Loss rate: 0.01%

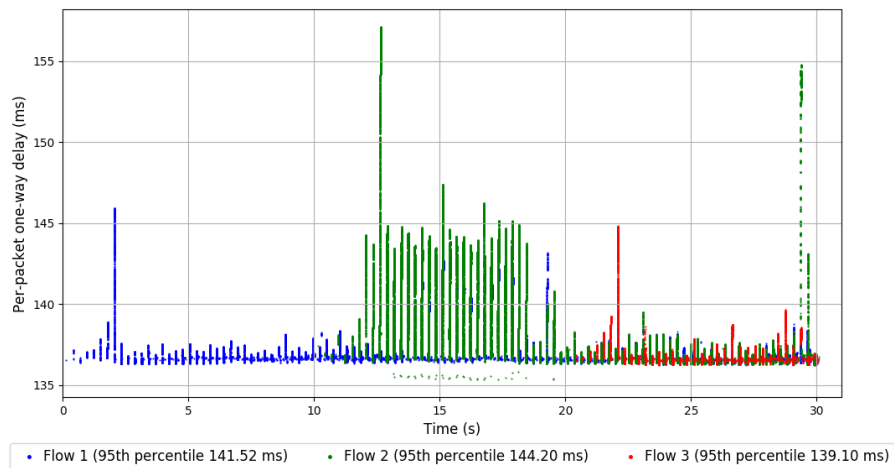
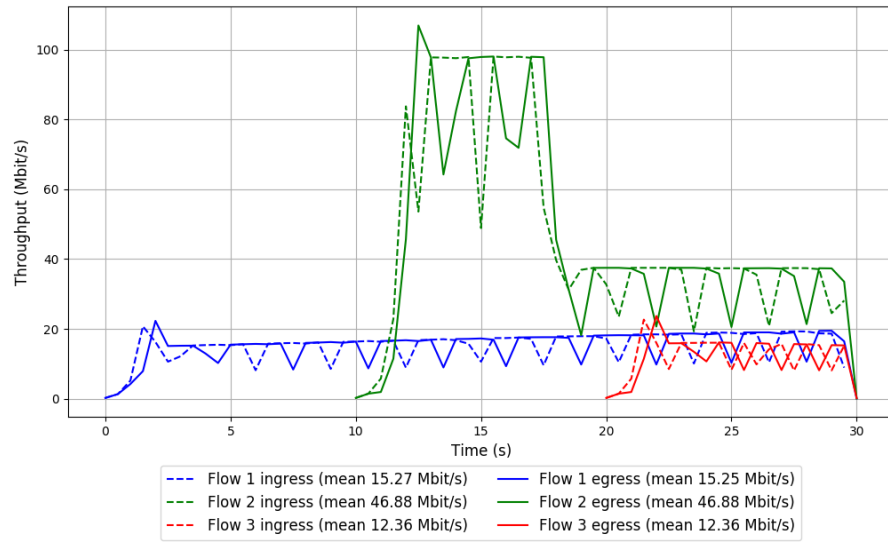
-- Flow 3:

Average throughput: 12.36 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-22 05:04:07

End at: 2017-11-22 05:04:37

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.79 Mbit/s

95th percentile per-packet one-way delay: 144.481 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 144.031 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 146.134 ms

Loss rate: 0.00%

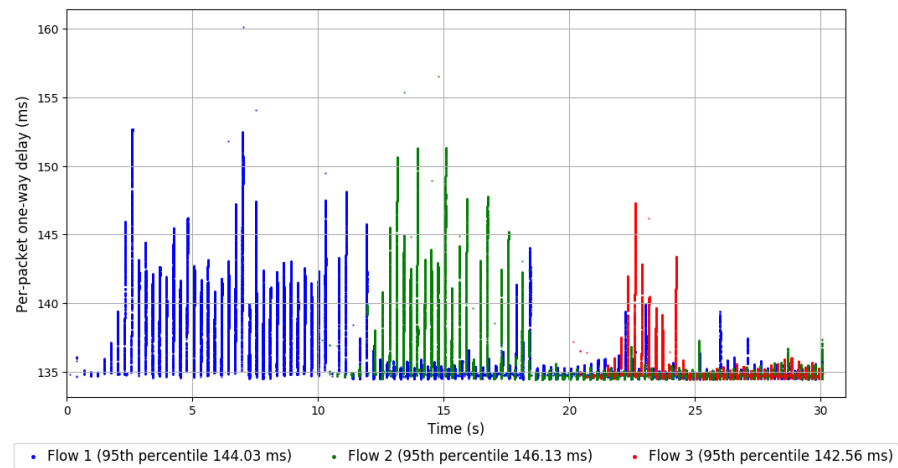
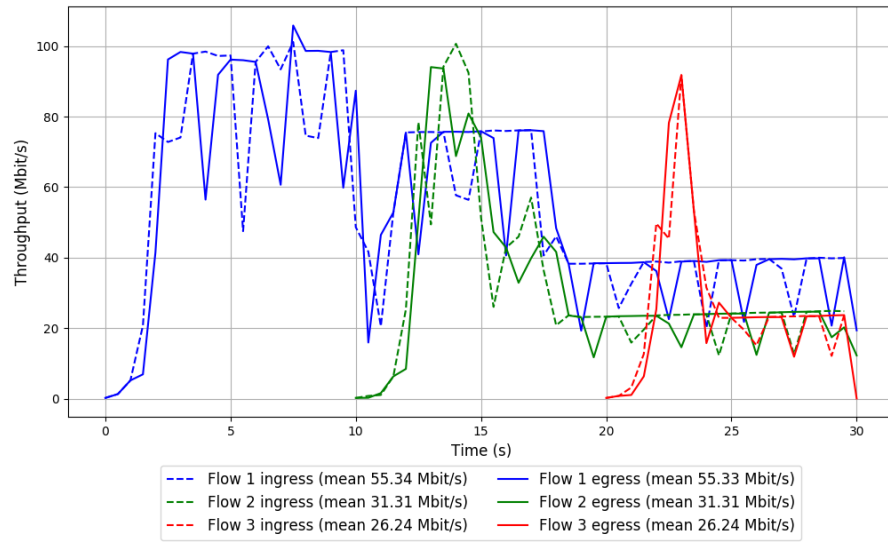
-- Flow 3:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 142.563 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-22 05:18:29

End at: 2017-11-22 05:18:59

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.42 Mbit/s

95th percentile per-packet one-way delay: 146.846 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 143.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.03 Mbit/s

95th percentile per-packet one-way delay: 149.186 ms

Loss rate: 0.00%

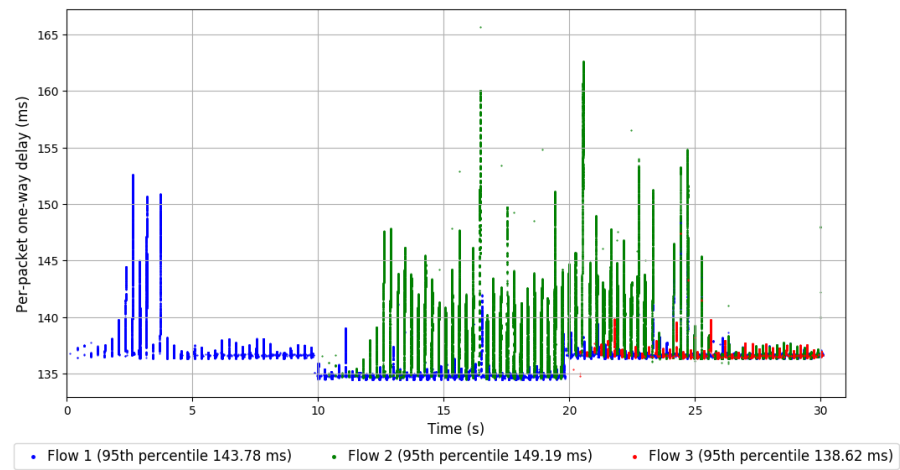
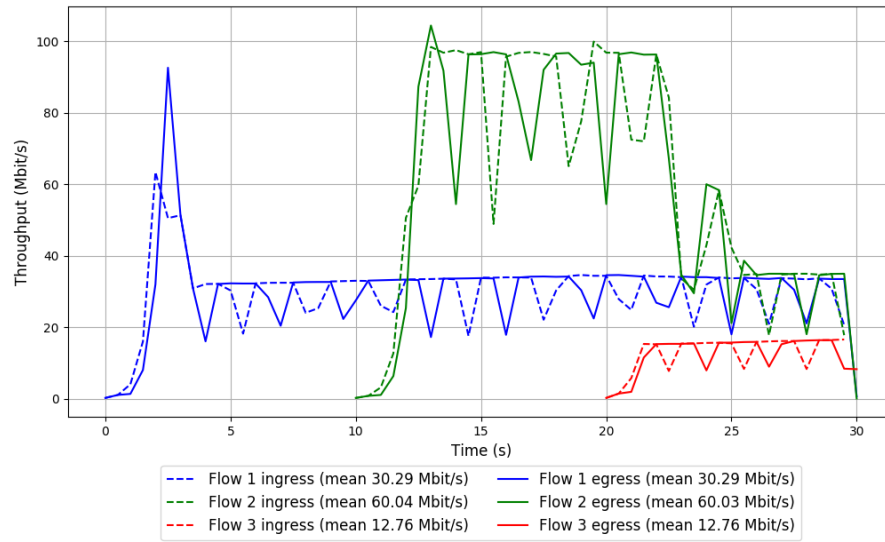
-- Flow 3:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 138.620 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-22 05:32:50

End at: 2017-11-22 05:33:20

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.16 Mbit/s

95th percentile per-packet one-way delay: 145.678 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 14.57 Mbit/s

95th percentile per-packet one-way delay: 137.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 138.060 ms

Loss rate: 0.01%

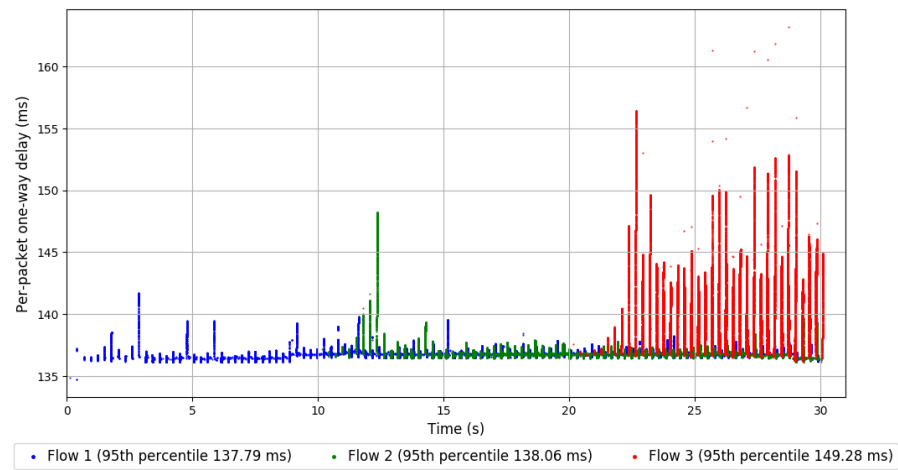
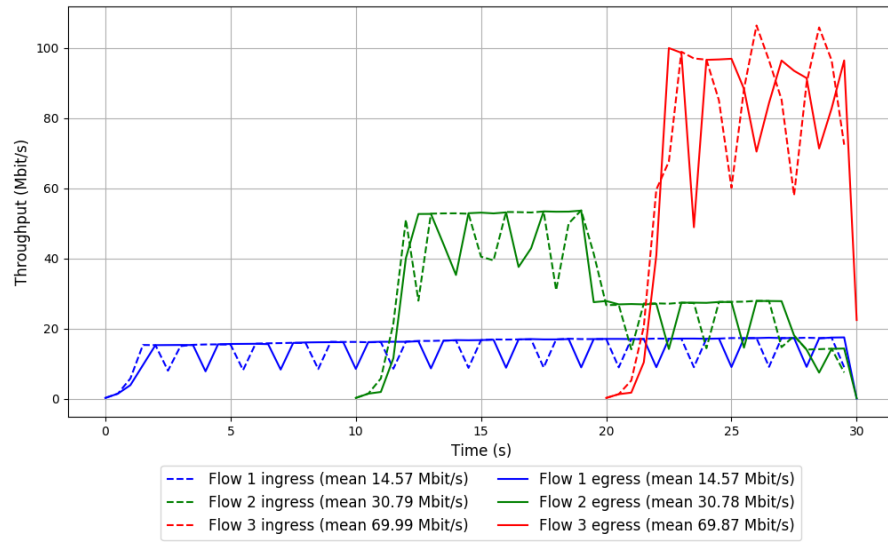
-- Flow 3:

Average throughput: 69.87 Mbit/s

95th percentile per-packet one-way delay: 149.278 ms

Loss rate: 0.13%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-22 05:47:10

End at: 2017-11-22 05:47:40

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.88 Mbit/s

95th percentile per-packet one-way delay: 141.524 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 137.447 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 137.966 ms

Loss rate: 0.02%

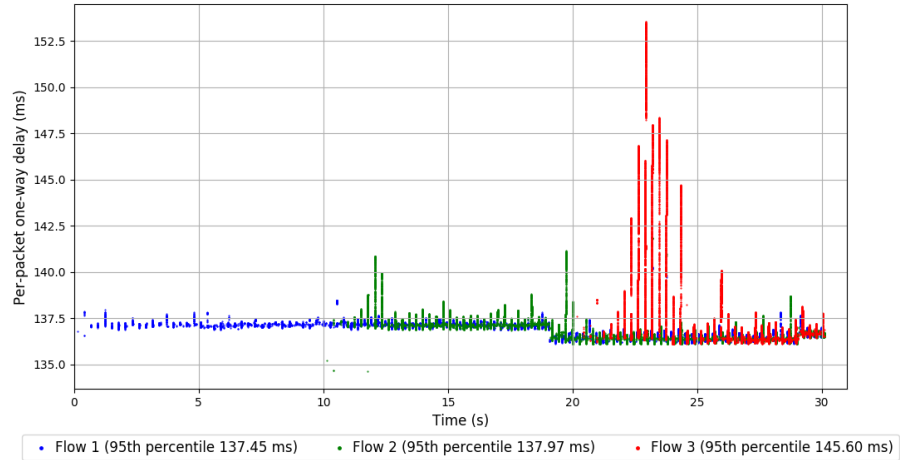
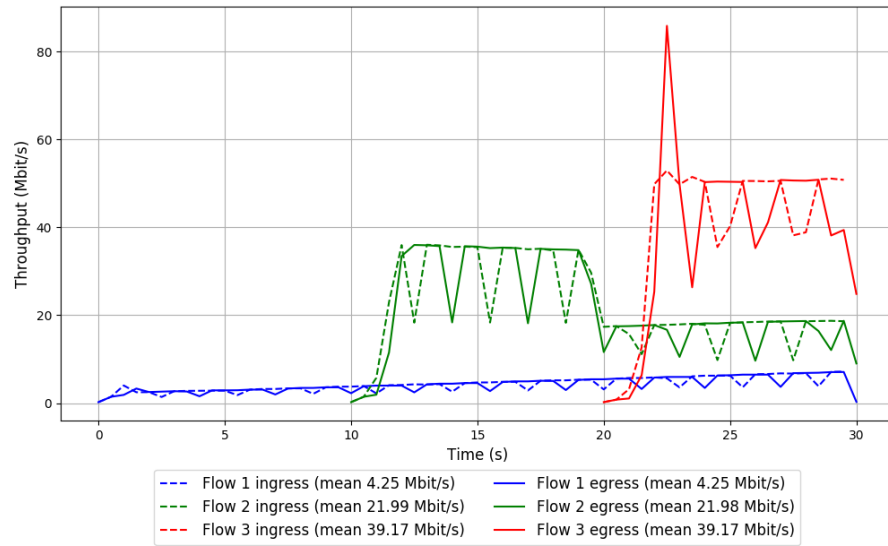
-- Flow 3:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 145.598 ms

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-22 06:01:23

End at: 2017-11-22 06:01:53

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 141.030 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.58 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 145.284 ms

Loss rate: 0.00%

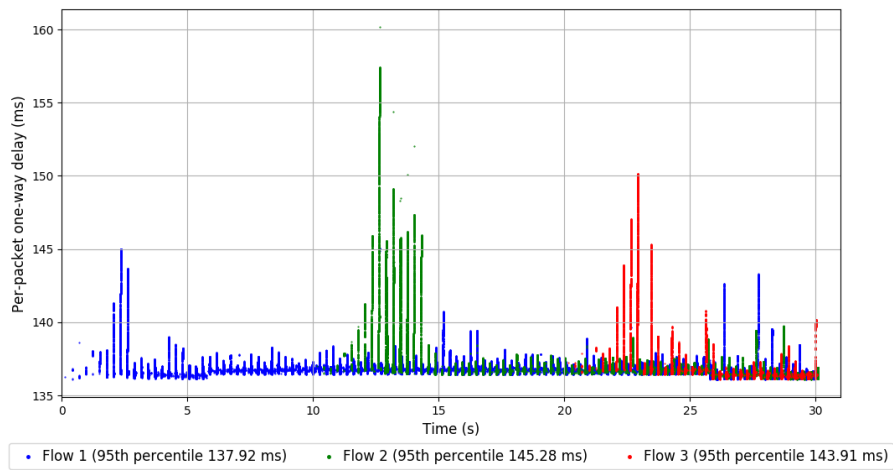
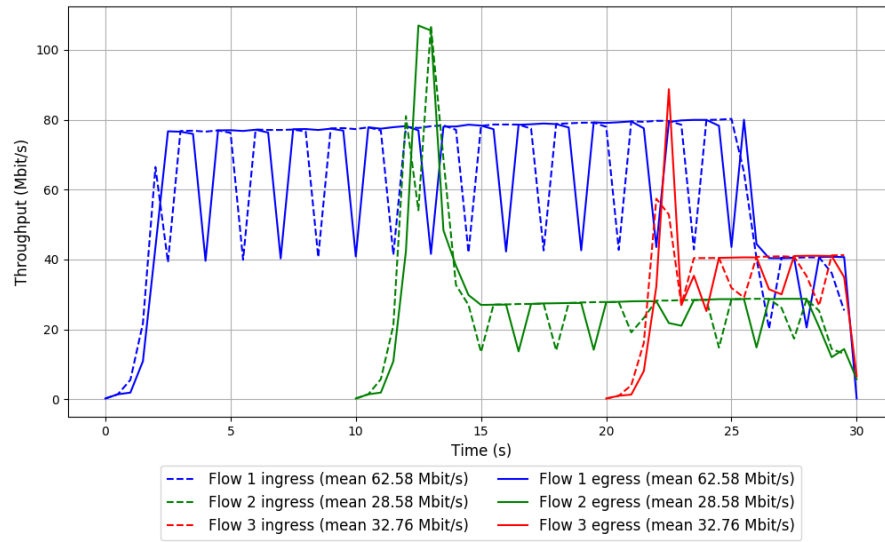
-- Flow 3:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 143.913 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-22 06:15:30

End at: 2017-11-22 06:16:00

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 145.671 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 27.55 Mbit/s

95th percentile per-packet one-way delay: 141.967 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 147.289 ms

Loss rate: 0.00%

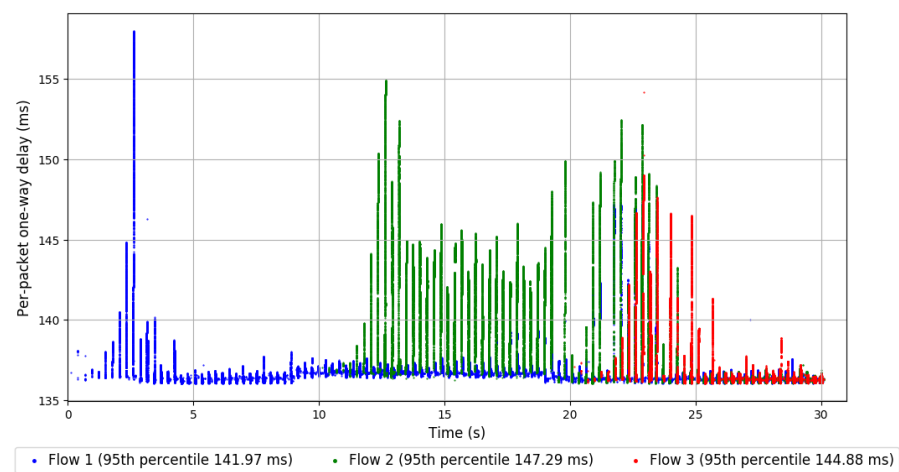
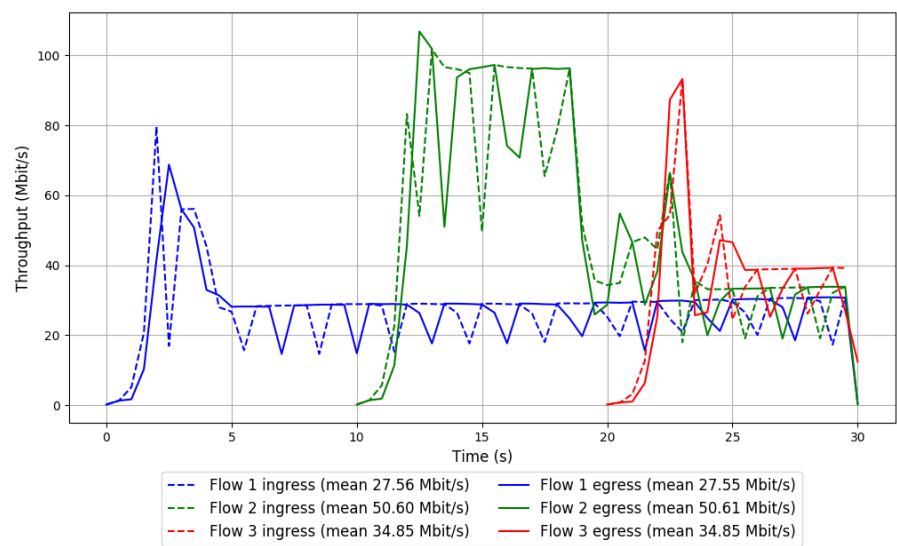
-- Flow 3:

Average throughput: 34.85 Mbit/s

95th percentile per-packet one-way delay: 144.880 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-22 06:29:47

End at: 2017-11-22 06:30:17

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 147.304 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 147.559 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 64.91 Mbit/s

95th percentile per-packet one-way delay: 146.784 ms

Loss rate: 0.00%

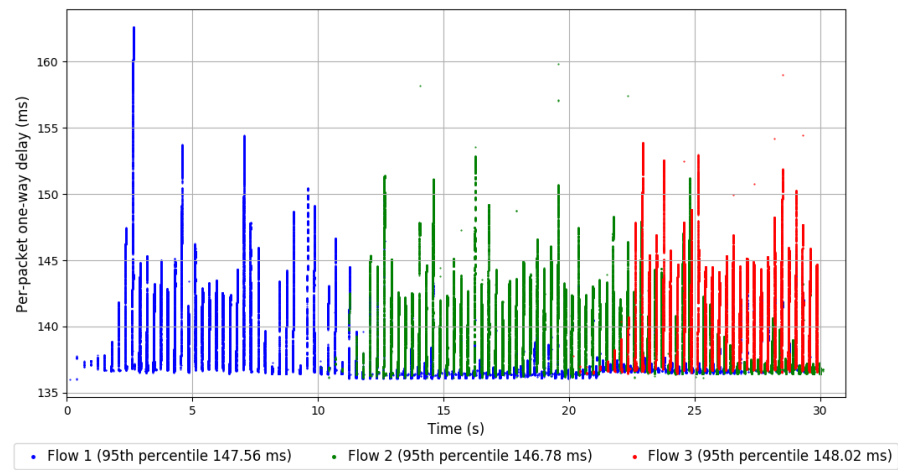
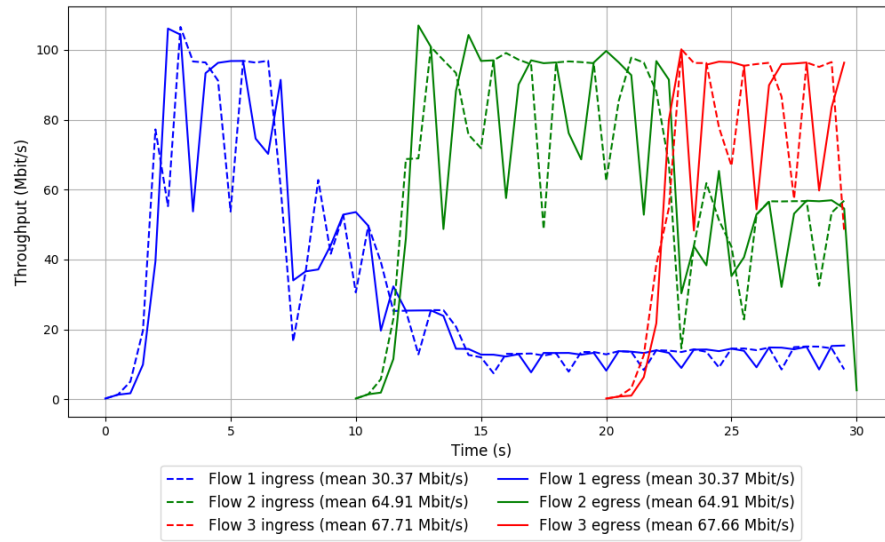
-- Flow 3:

Average throughput: 67.66 Mbit/s

95th percentile per-packet one-way delay: 148.019 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

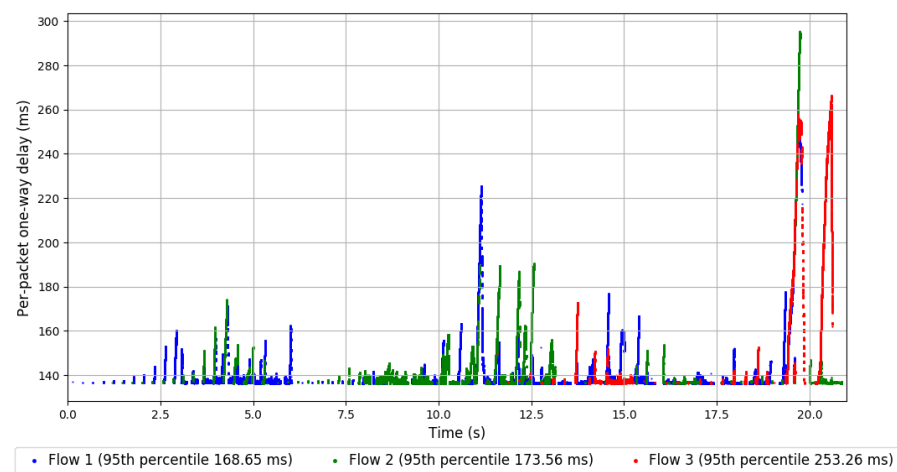
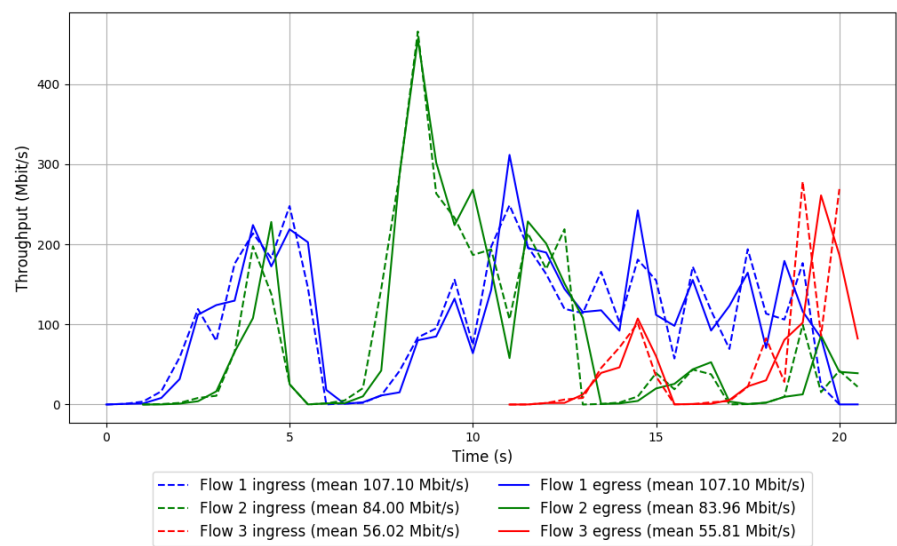


Run 1: Statistics of Verus

Start at: 2017-11-22 04:27:30

End at: 2017-11-22 04:28:00

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-22 04:41:54

End at: 2017-11-22 04:42:24

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.68 Mbit/s

95th percentile per-packet one-way delay: 188.608 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 161.20 Mbit/s

95th percentile per-packet one-way delay: 194.819 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 166.984 ms

Loss rate: 0.01%

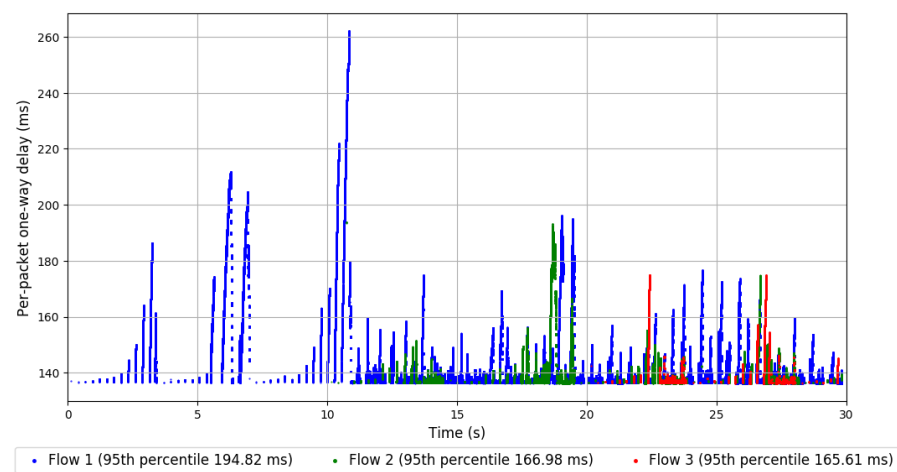
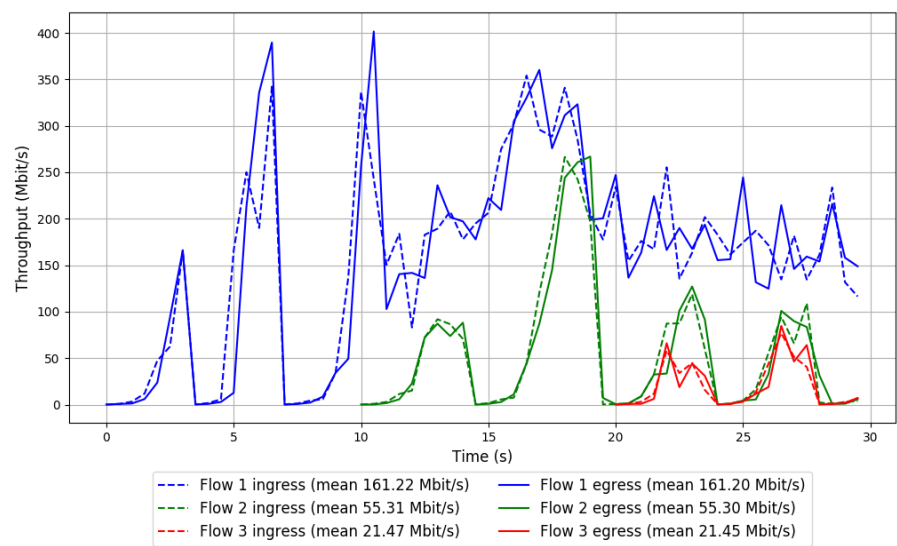
-- Flow 3:

Average throughput: 21.45 Mbit/s

95th percentile per-packet one-way delay: 165.610 ms

Loss rate: 0.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-22 04:56:06

End at: 2017-11-22 04:56:36

Below is generated by plot.py at 2017-11-22 08:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.18 Mbit/s

95th percentile per-packet one-way delay: 164.312 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 103.55 Mbit/s

95th percentile per-packet one-way delay: 156.913 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 175.885 ms

Loss rate: 0.00%

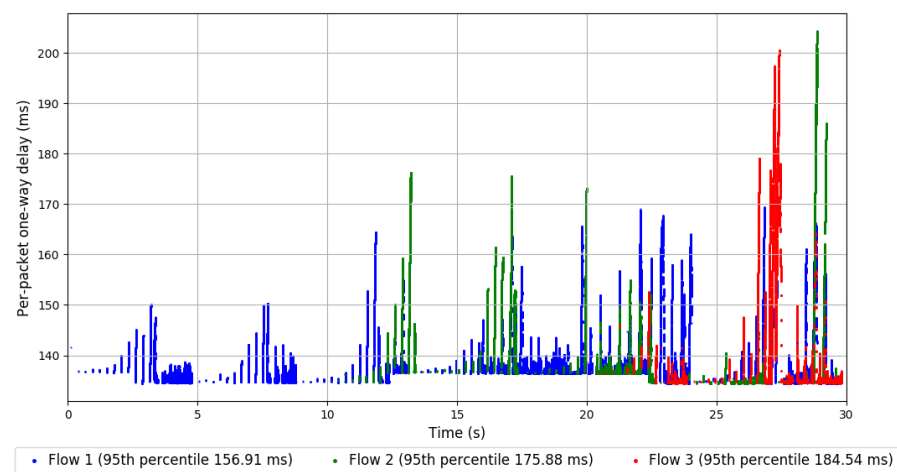
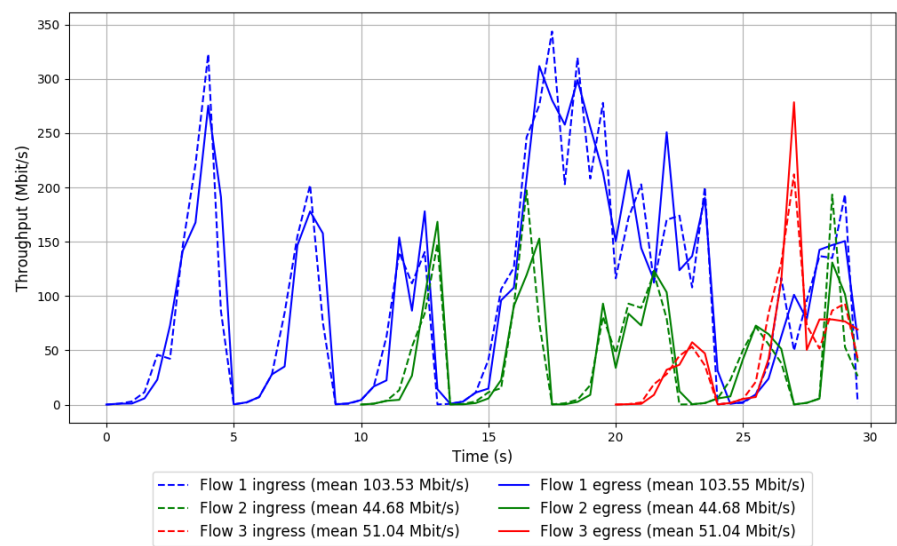
-- Flow 3:

Average throughput: 51.04 Mbit/s

95th percentile per-packet one-way delay: 184.540 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-22 05:10:17

End at: 2017-11-22 05:10:47

Below is generated by plot.py at 2017-11-22 08:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.59 Mbit/s

95th percentile per-packet one-way delay: 177.973 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 201.94 Mbit/s

95th percentile per-packet one-way delay: 180.862 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 156.888 ms

Loss rate: 0.01%

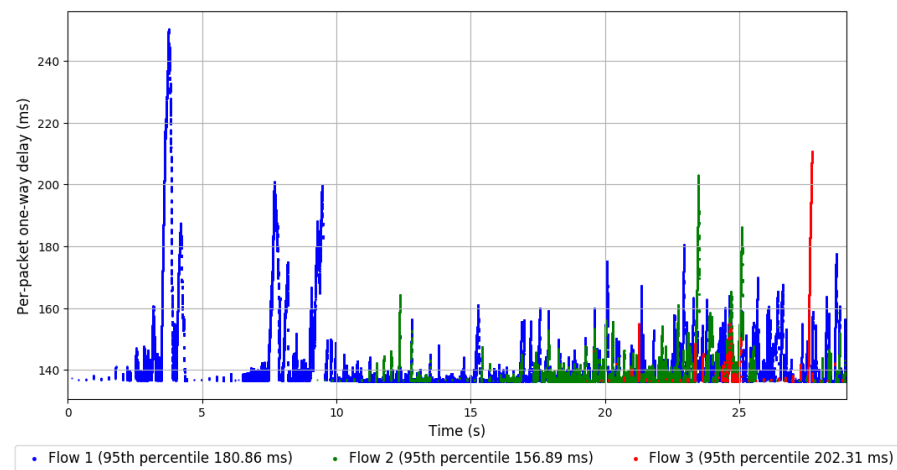
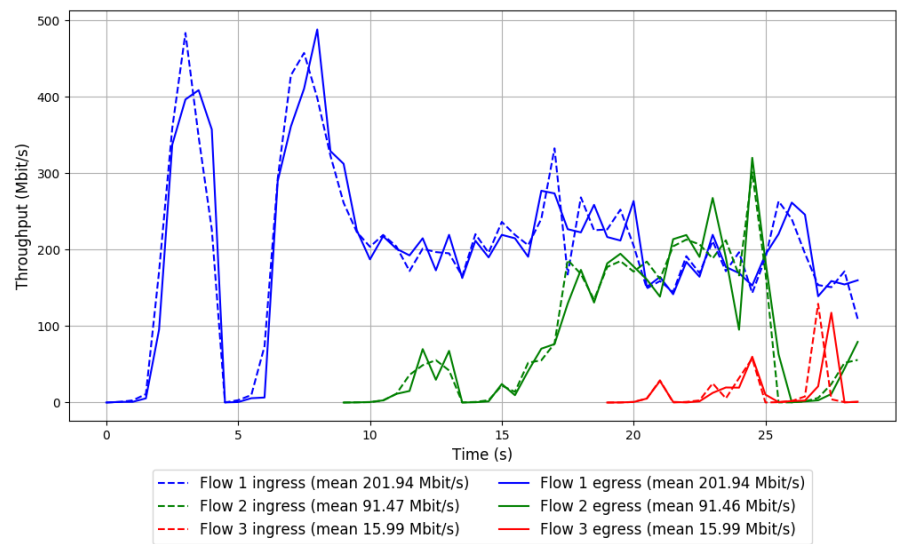
-- Flow 3:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 202.314 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-22 05:24:36

End at: 2017-11-22 05:25:06

Below is generated by plot.py at 2017-11-22 08:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.04 Mbit/s

95th percentile per-packet one-way delay: 187.535 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 161.00 Mbit/s

95th percentile per-packet one-way delay: 191.376 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 162.99 Mbit/s

95th percentile per-packet one-way delay: 189.614 ms

Loss rate: 0.18%

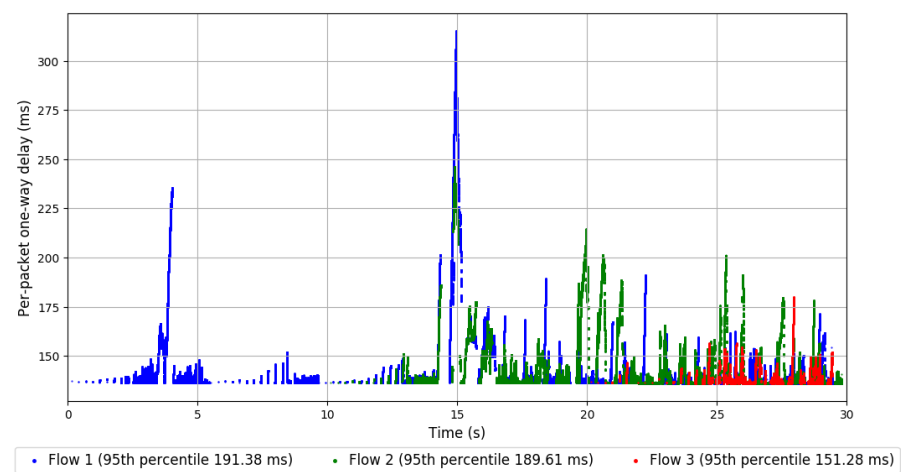
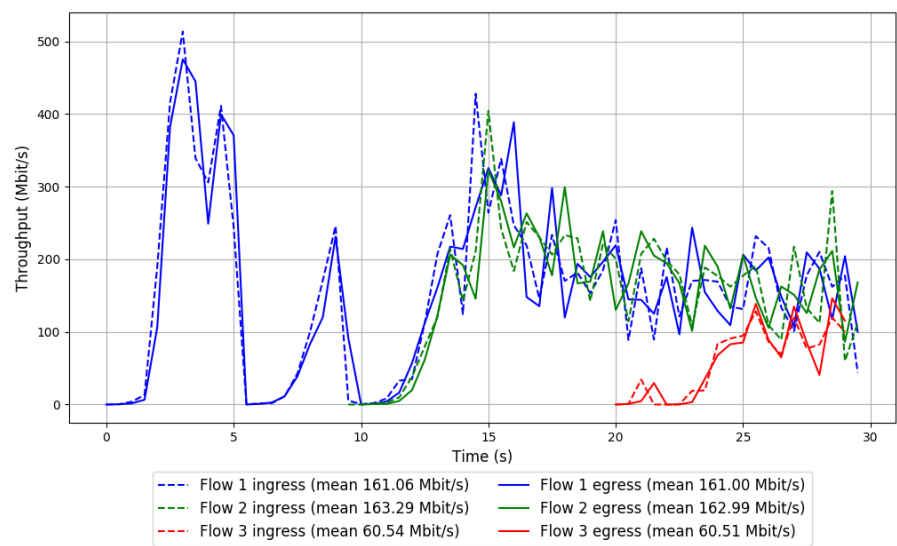
-- Flow 3:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 151.281 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-22 05:39:00

End at: 2017-11-22 05:39:30

Below is generated by plot.py at 2017-11-22 08:08:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.36 Mbit/s

95th percentile per-packet one-way delay: 297.003 ms

Loss rate: 3.11%

-- Flow 1:

Average throughput: 147.14 Mbit/s

95th percentile per-packet one-way delay: 324.760 ms

Loss rate: 4.40%

-- Flow 2:

Average throughput: 85.79 Mbit/s

95th percentile per-packet one-way delay: 235.838 ms

Loss rate: 1.13%

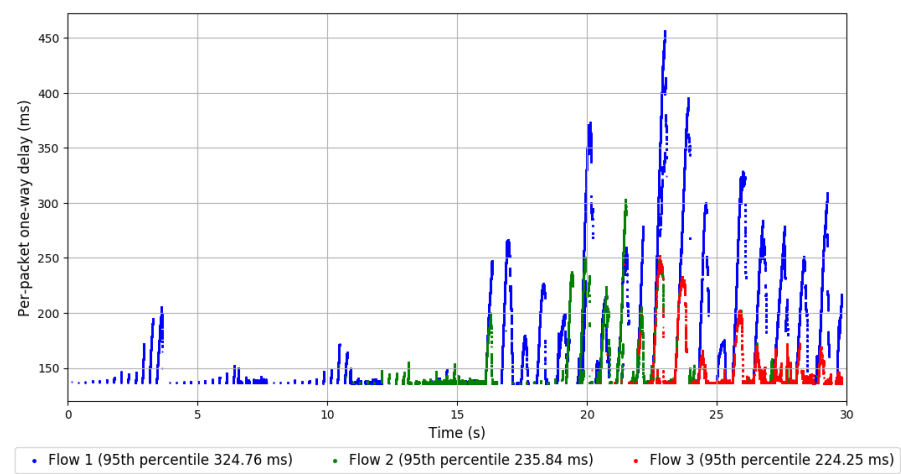
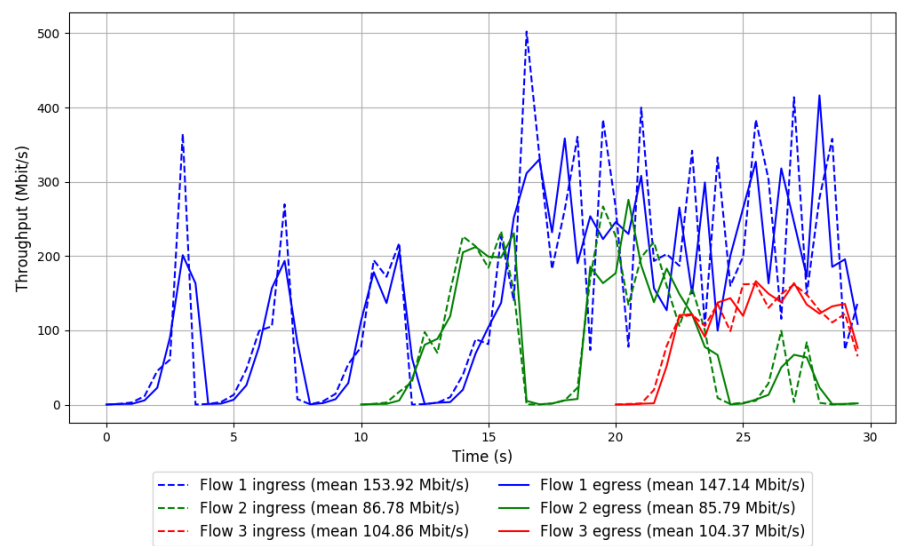
-- Flow 3:

Average throughput: 104.37 Mbit/s

95th percentile per-packet one-way delay: 224.248 ms

Loss rate: 0.58%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-22 05:53:12

End at: 2017-11-22 05:53:42

Below is generated by plot.py at 2017-11-22 08:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.45 Mbit/s

95th percentile per-packet one-way delay: 213.839 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 169.05 Mbit/s

95th percentile per-packet one-way delay: 198.521 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 136.04 Mbit/s

95th percentile per-packet one-way delay: 273.666 ms

Loss rate: 0.07%

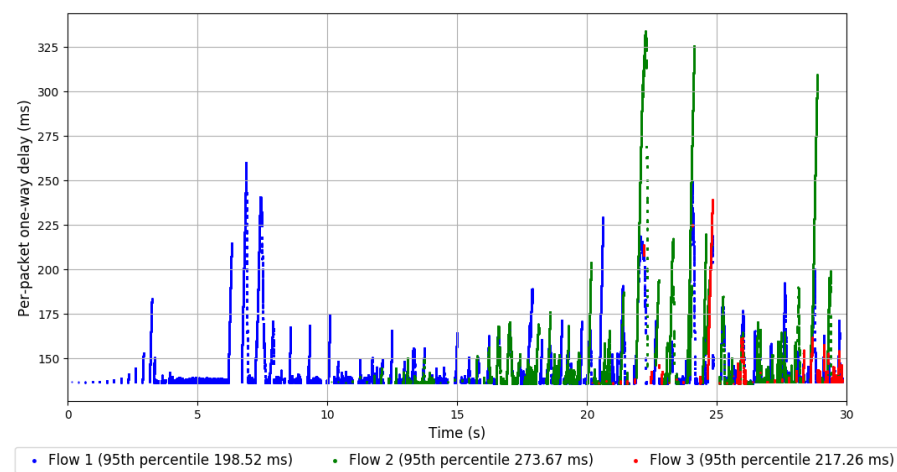
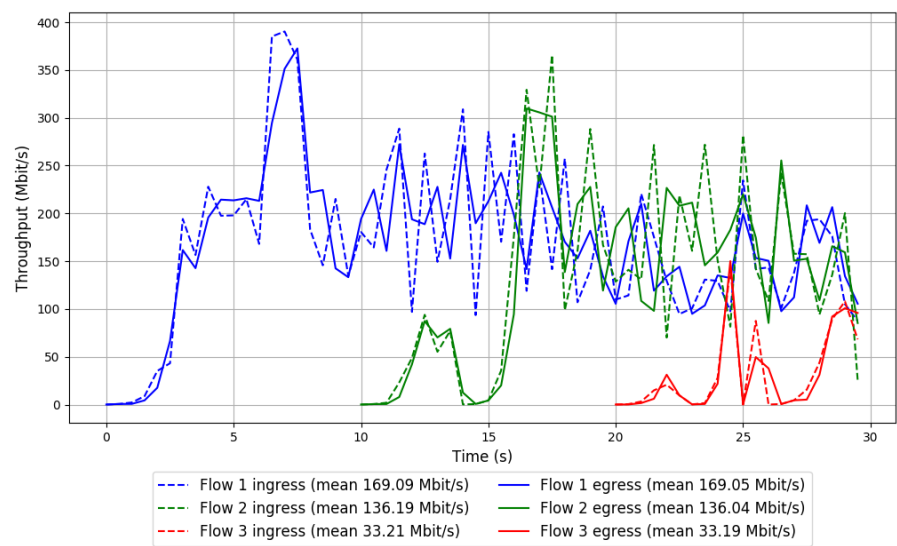
-- Flow 3:

Average throughput: 33.19 Mbit/s

95th percentile per-packet one-way delay: 217.258 ms

Loss rate: 0.04%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-22 06:07:22

End at: 2017-11-22 06:07:52

Below is generated by plot.py at 2017-11-22 08:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.55 Mbit/s

95th percentile per-packet one-way delay: 267.375 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 295.194 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 119.94 Mbit/s

95th percentile per-packet one-way delay: 178.788 ms

Loss rate: 0.00%

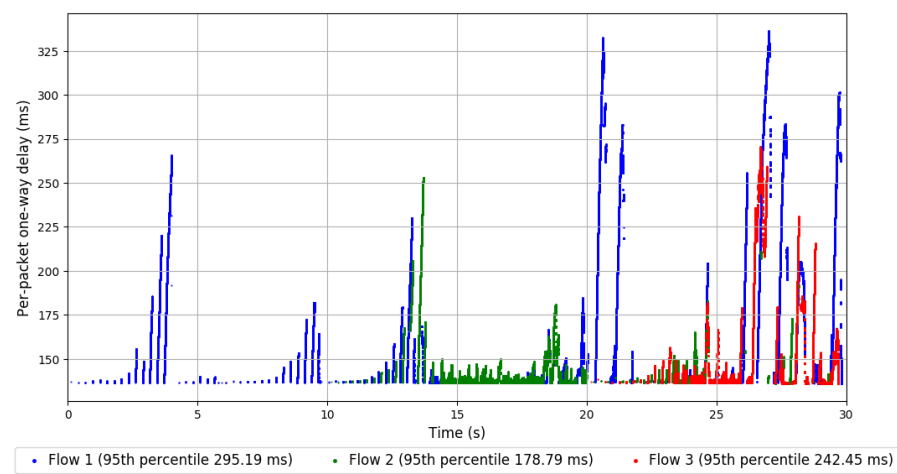
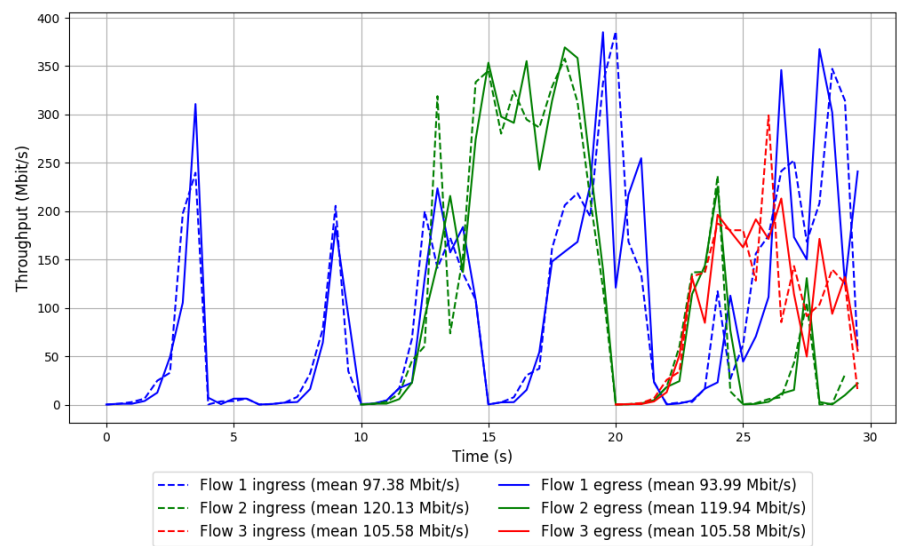
-- Flow 3:

Average throughput: 105.58 Mbit/s

95th percentile per-packet one-way delay: 242.448 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-22 06:21:48

End at: 2017-11-22 06:22:18

Below is generated by plot.py at 2017-11-22 08:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 357.836 ms

Loss rate: 5.49%

-- Flow 1:

Average throughput: 83.91 Mbit/s

95th percentile per-packet one-way delay: 383.374 ms

Loss rate: 7.68%

-- Flow 2:

Average throughput: 48.17 Mbit/s

95th percentile per-packet one-way delay: 221.301 ms

Loss rate: 3.01%

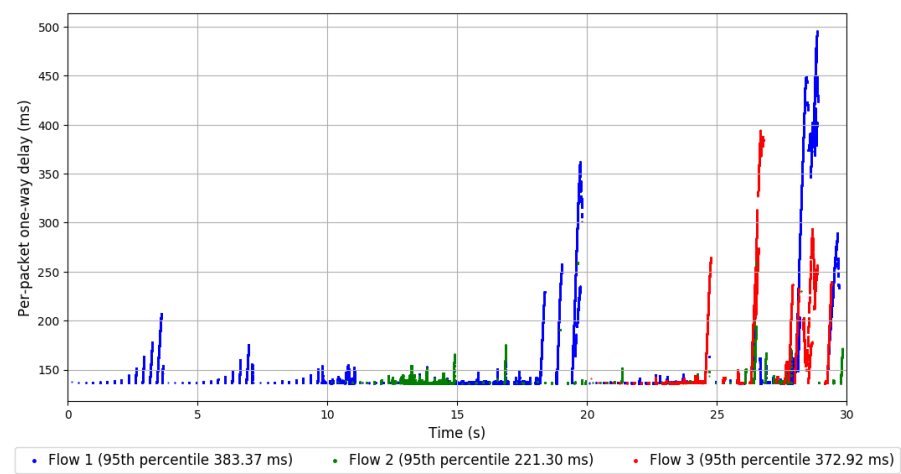
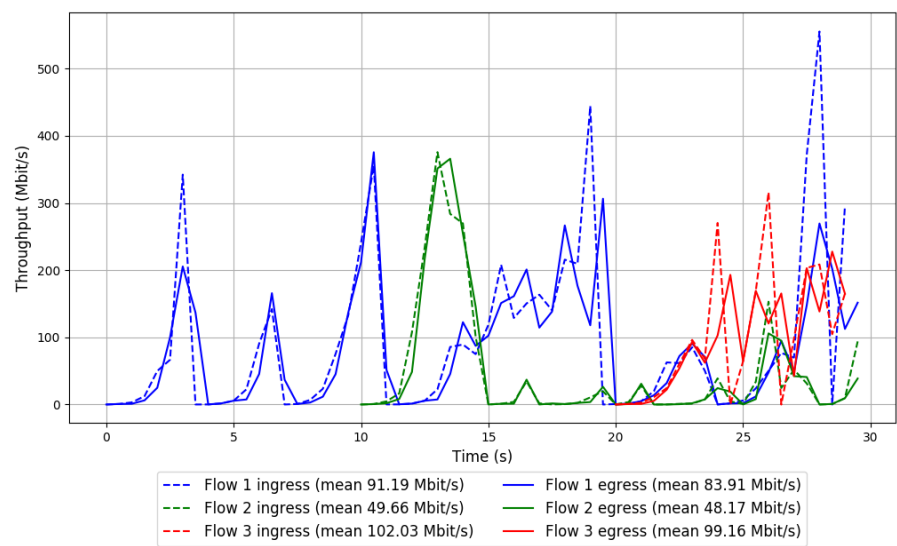
-- Flow 3:

Average throughput: 99.16 Mbit/s

95th percentile per-packet one-way delay: 372.915 ms

Loss rate: 1.78%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-22 06:35:44

End at: 2017-11-22 06:36:14

Below is generated by plot.py at 2017-11-22 08:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.42 Mbit/s

95th percentile per-packet one-way delay: 207.369 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 82.58 Mbit/s

95th percentile per-packet one-way delay: 220.414 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 160.471 ms

Loss rate: 0.04%

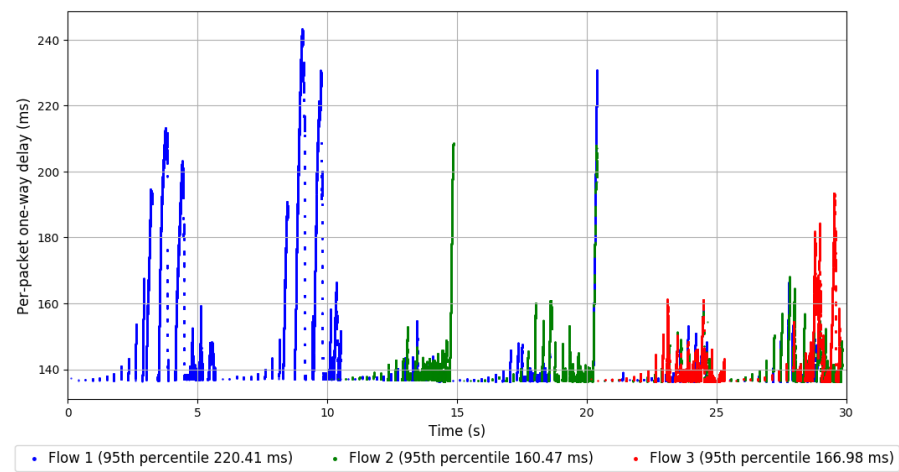
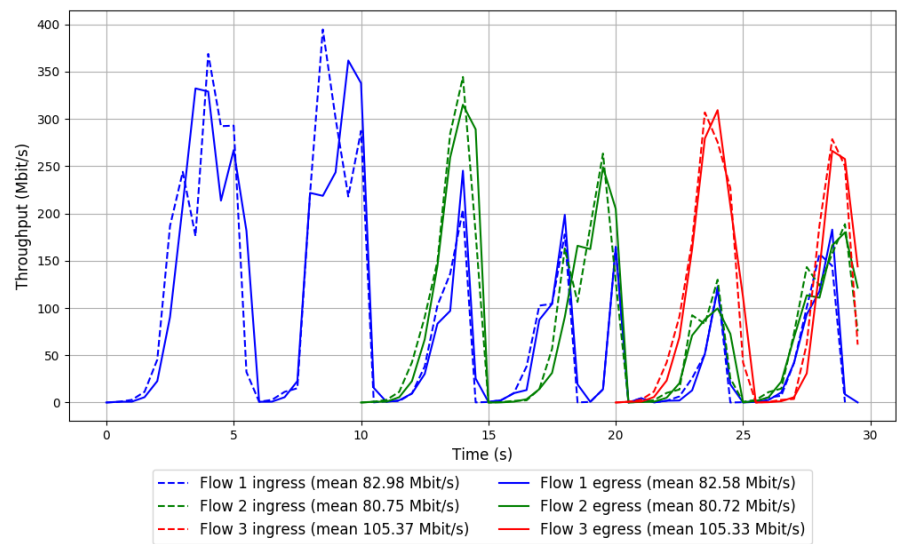
-- Flow 3:

Average throughput: 105.33 Mbit/s

95th percentile per-packet one-way delay: 166.978 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-22 04:24:06

End at: 2017-11-22 04:24:36

Below is generated by plot.py at 2017-11-22 08:11:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.91 Mbit/s

95th percentile per-packet one-way delay: 136.854 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 136.875 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.72 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.00%

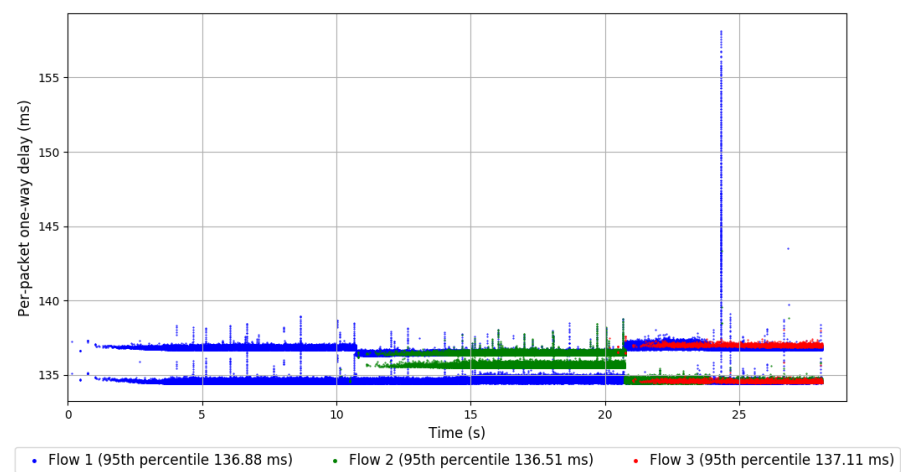
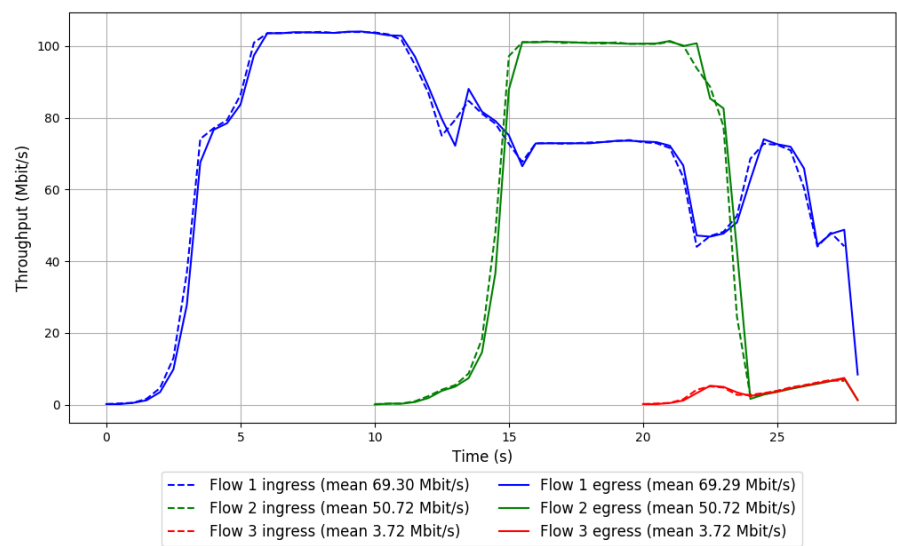
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 137.107 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-22 04:38:32

End at: 2017-11-22 04:39:02

Below is generated by plot.py at 2017-11-22 08:11:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.06 Mbit/s

95th percentile per-packet one-way delay: 136.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 136.503 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.13 Mbit/s

95th percentile per-packet one-way delay: 136.562 ms

Loss rate: 0.00%

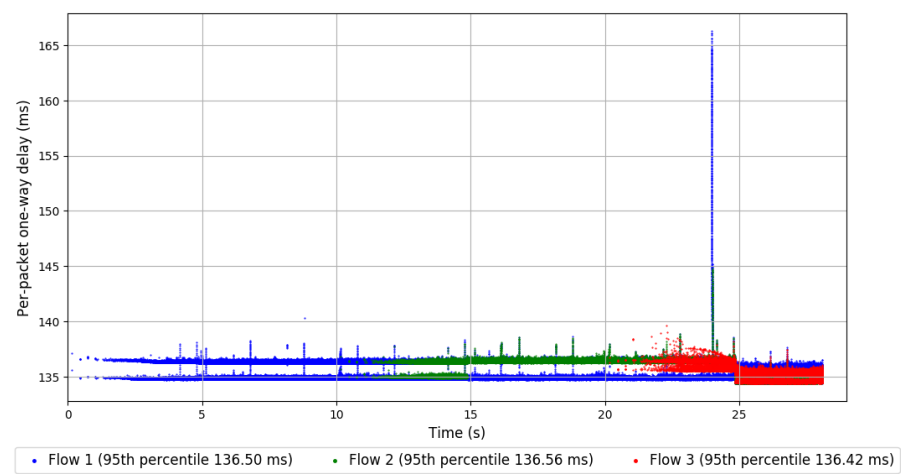
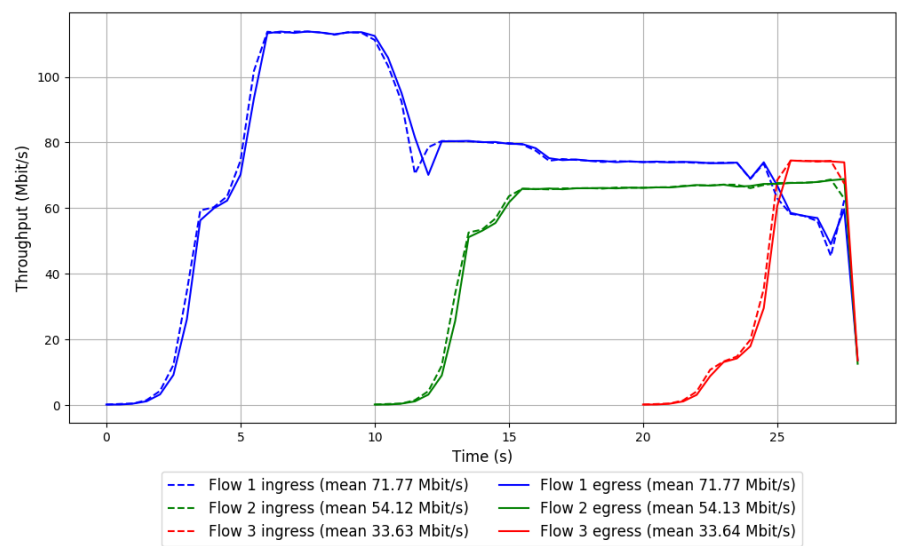
-- Flow 3:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 136.422 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-22 04:52:59

End at: 2017-11-22 04:53:29

Below is generated by plot.py at 2017-11-22 08:11:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.23 Mbit/s

95th percentile per-packet one-way delay: 136.508 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.25 Mbit/s

95th percentile per-packet one-way delay: 136.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.00%

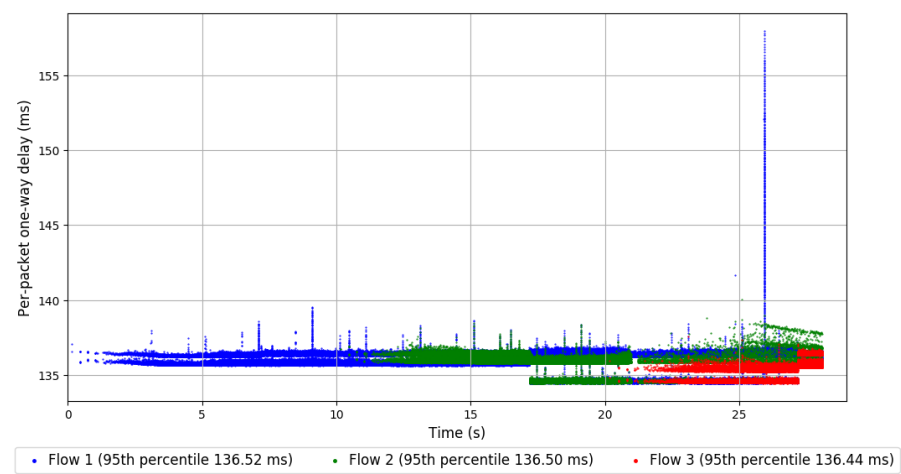
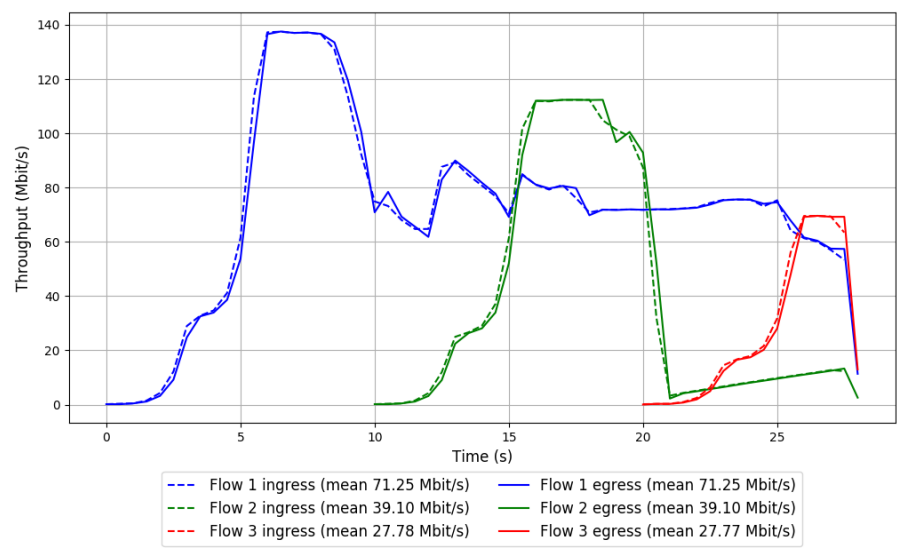
-- Flow 3:

Average throughput: 27.77 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.03%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-22 05:07:01

End at: 2017-11-22 05:07:31

Below is generated by plot.py at 2017-11-22 08:11:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 136.605 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.61 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.14 Mbit/s

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

Loss rate: 0.00%

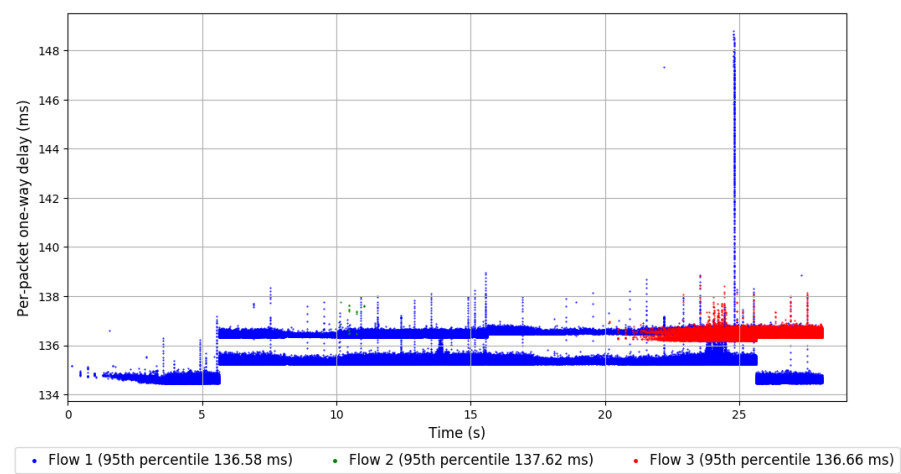
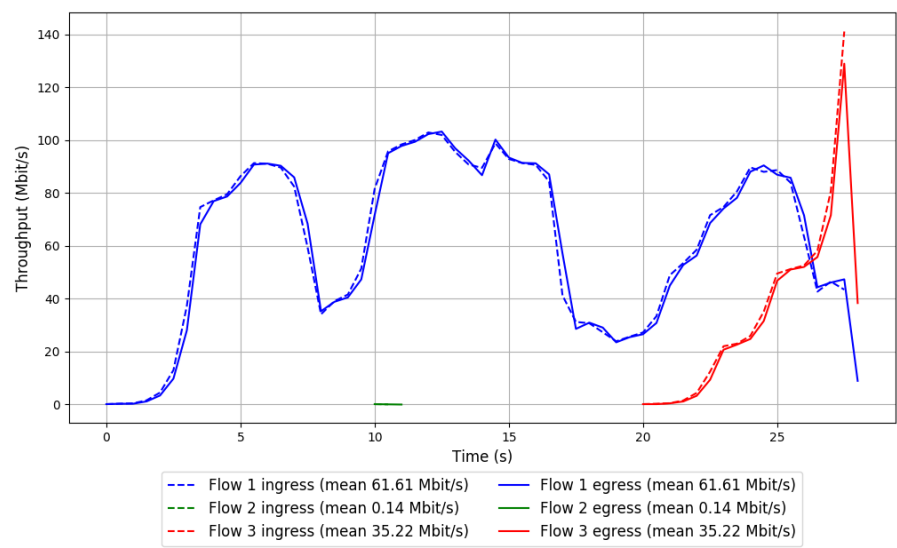
-- Flow 3:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-22 05:21:22

End at: 2017-11-22 05:21:52

Below is generated by plot.py at 2017-11-22 08:11:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

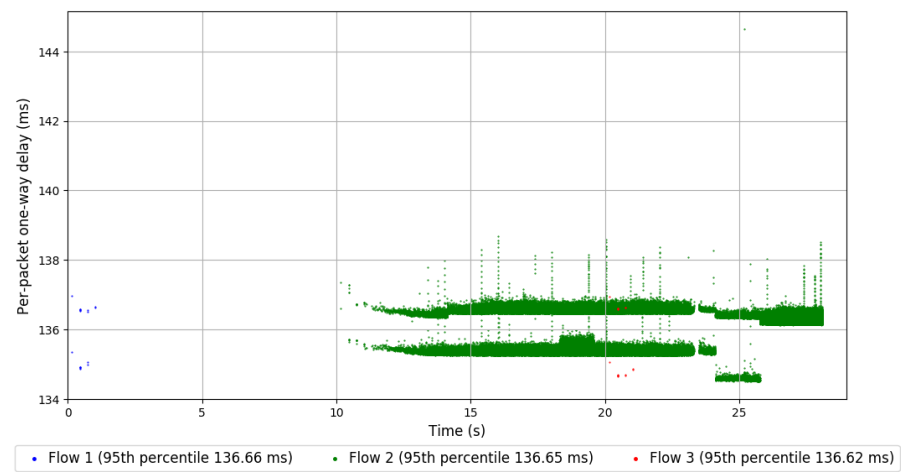
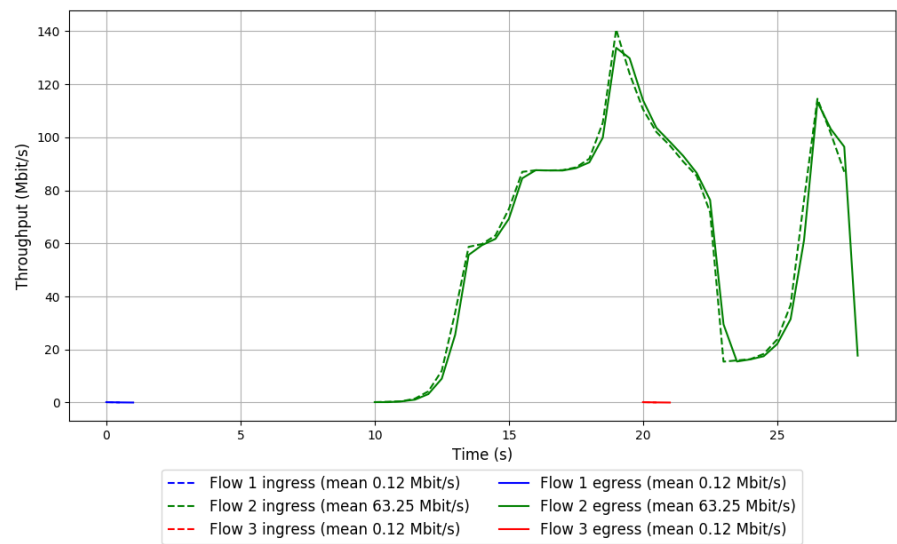
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.623 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-22 05:35:43

End at: 2017-11-22 05:36:13

Below is generated by plot.py at 2017-11-22 08:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 137.183 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 137.242 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 136.658 ms

Loss rate: 0.00%

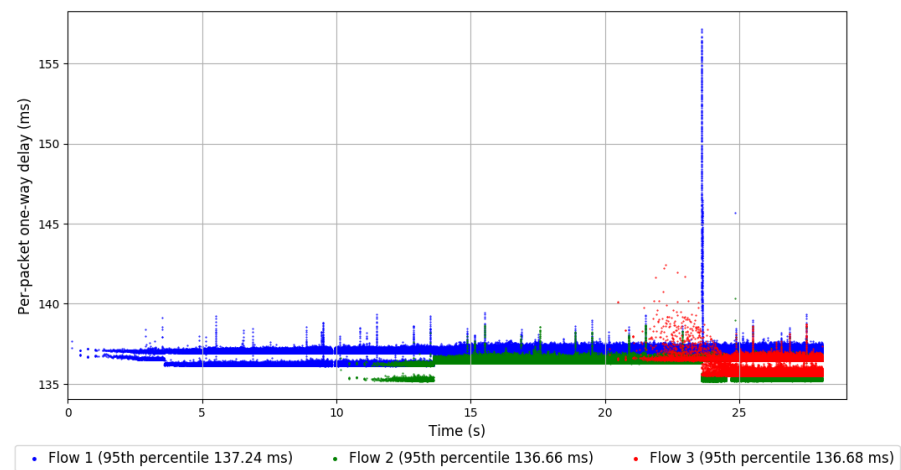
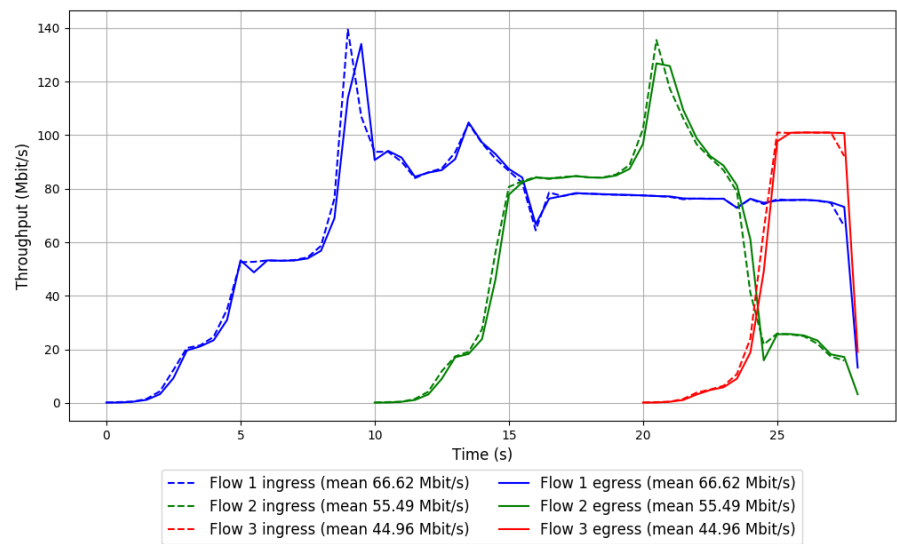
-- Flow 3:

Average throughput: 44.96 Mbit/s

95th percentile per-packet one-way delay: 136.682 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-22 05:50:01

End at: 2017-11-22 05:50:31

Below is generated by plot.py at 2017-11-22 08:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 137.351 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 75.40 Mbit/s

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

Loss rate: 0.12%

-- Flow 2:

Average throughput: 45.54 Mbit/s

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

Loss rate: 0.22%

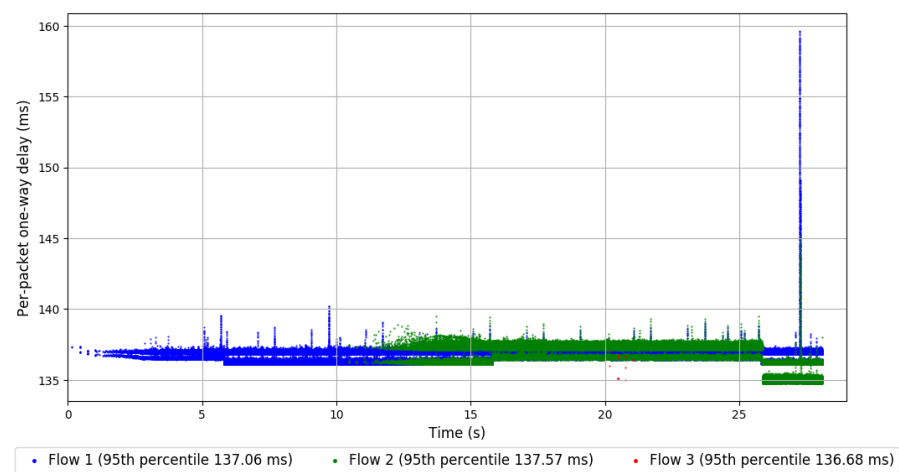
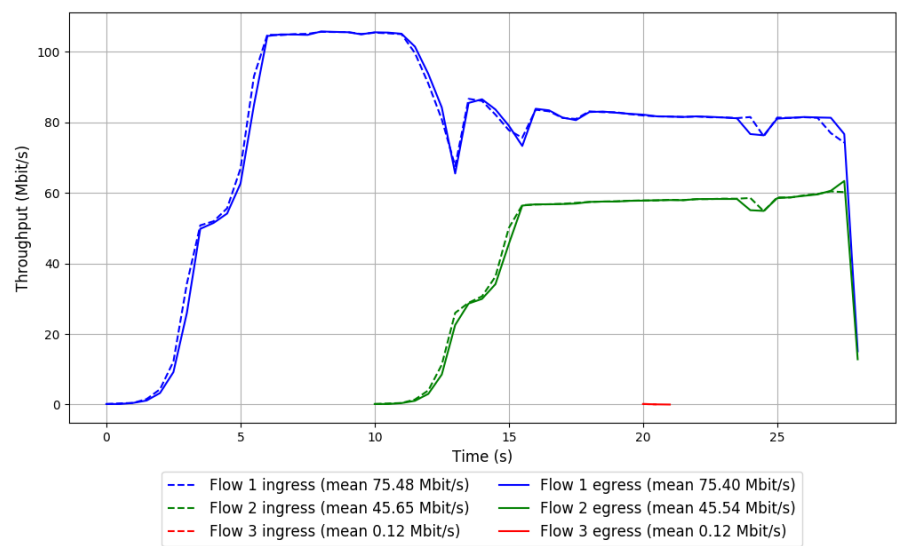
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.682 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-22 06:04:18

End at: 2017-11-22 06:04:48

Below is generated by plot.py at 2017-11-22 08:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.63 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 137.066 ms

Loss rate: 0.00%

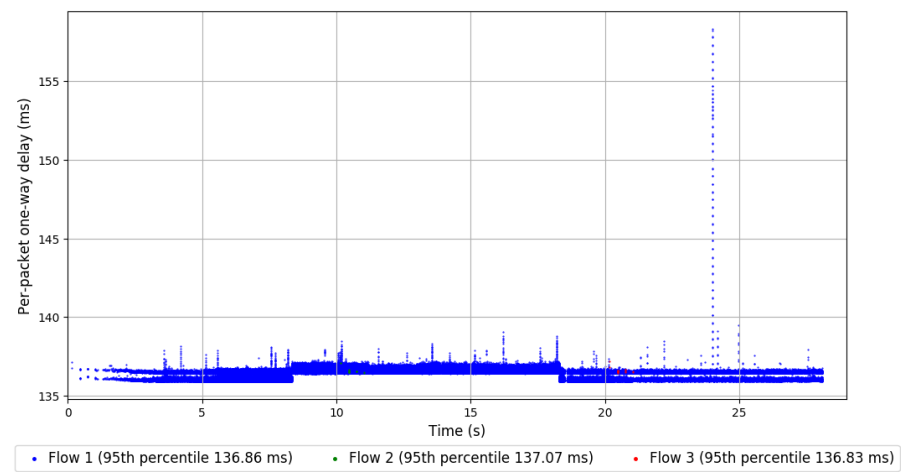
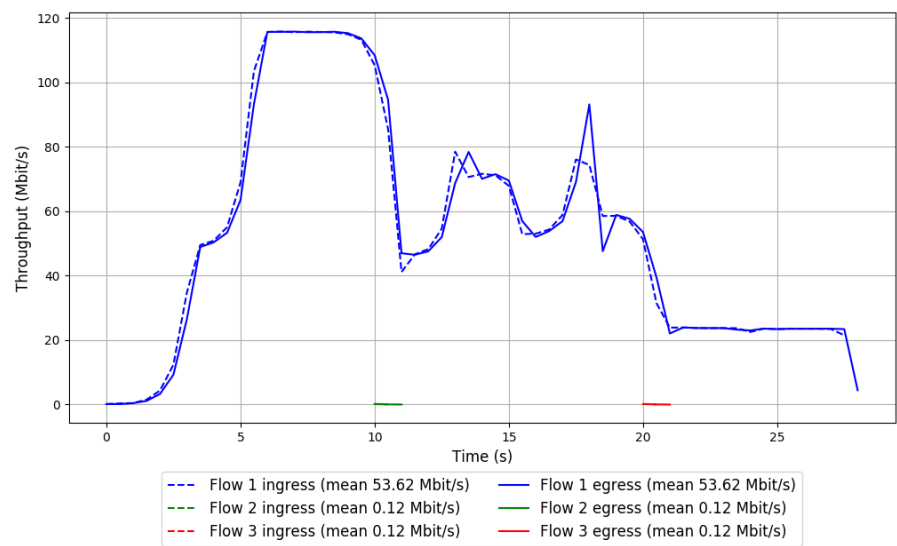
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.829 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-22 06:18:23

End at: 2017-11-22 06:18:53

Below is generated by plot.py at 2017-11-22 08:14:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.45 Mbit/s

95th percentile per-packet one-way delay: 137.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.49 Mbit/s

95th percentile per-packet one-way delay: 137.157 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.82 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.00%

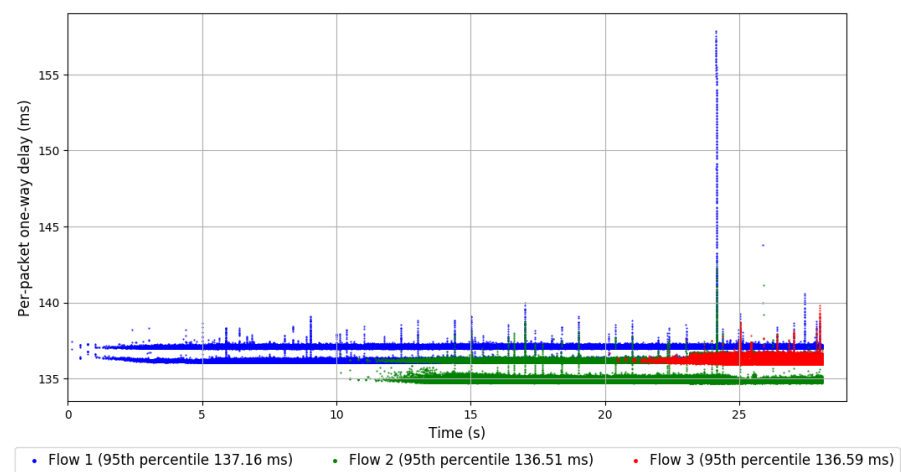
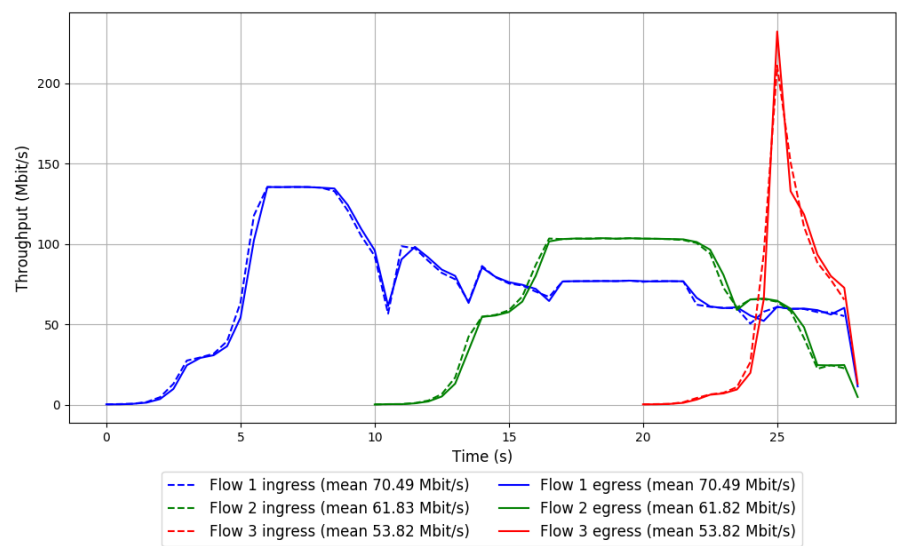
-- Flow 3:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-22 06:32:43

End at: 2017-11-22 06:33:13

Below is generated by plot.py at 2017-11-22 08:14:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.19 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.831 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 0.00%

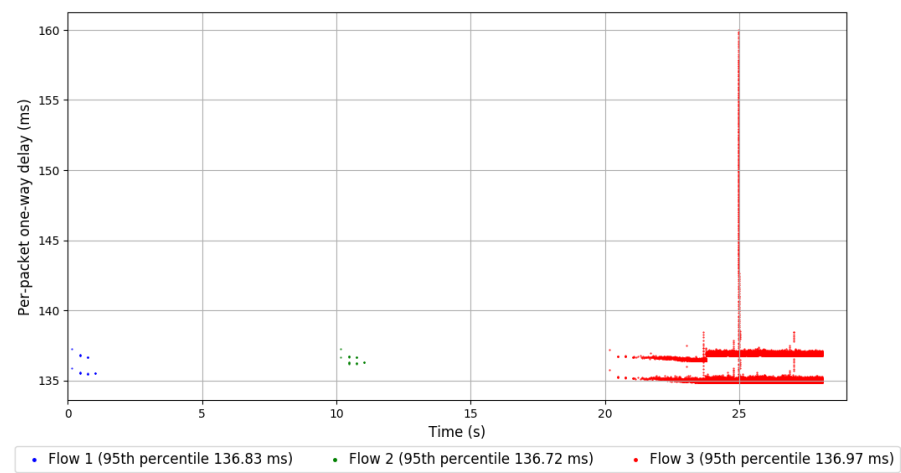
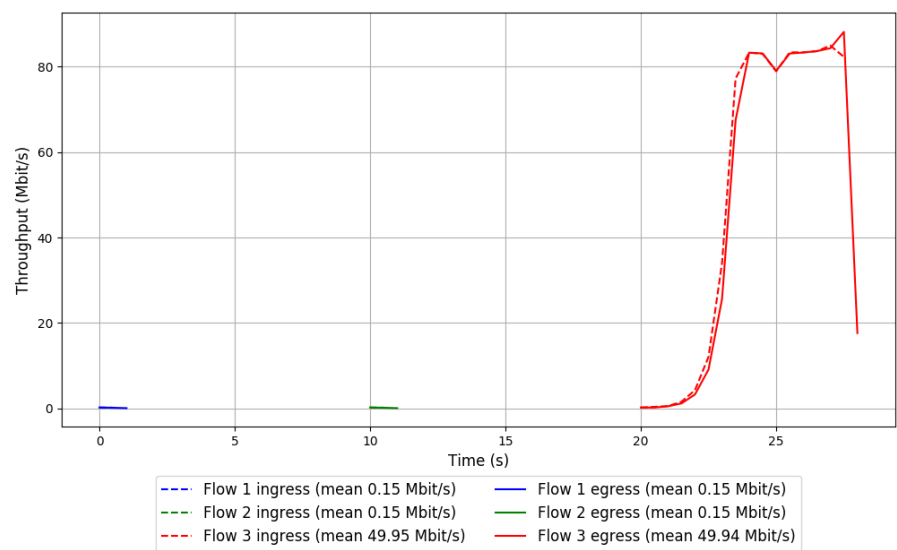
-- Flow 3:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 136.970 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

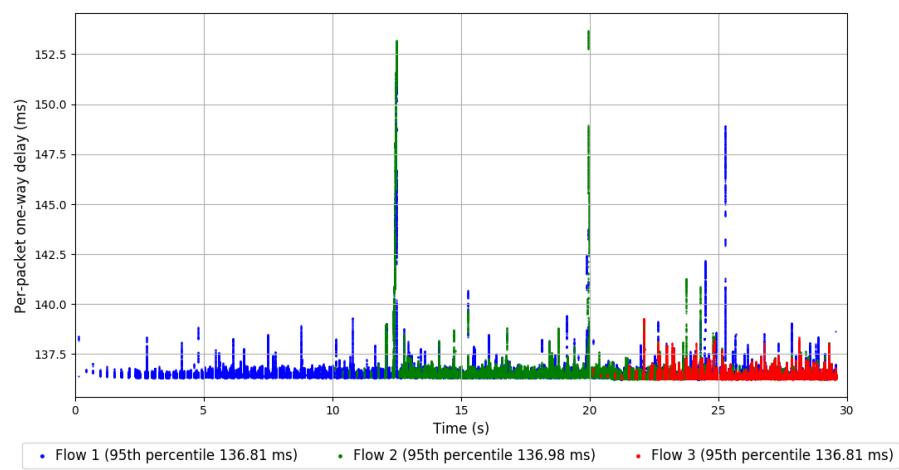
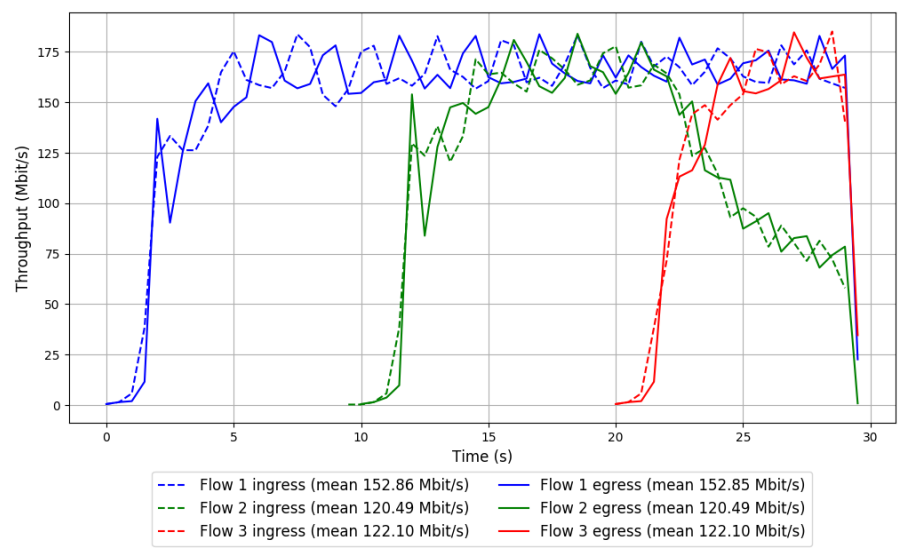


```
Run 1: Statistics of Indigo

Start at: 2017-11-22 04:31:37
End at: 2017-11-22 04:32:07

# Below is generated by plot.py at 2017-11-22 08:15:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.36 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.85 Mbit/s
95th percentile per-packet one-way delay: 136.807 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.49 Mbit/s
95th percentile per-packet one-way delay: 136.980 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.10 Mbit/s
95th percentile per-packet one-way delay: 136.815 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-22 04:46:09

End at: 2017-11-22 04:46:39

Below is generated by plot.py at 2017-11-22 08:15:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.87 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 138.53 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 140.45 Mbit/s

95th percentile per-packet one-way delay: 136.970 ms

Loss rate: 0.00%

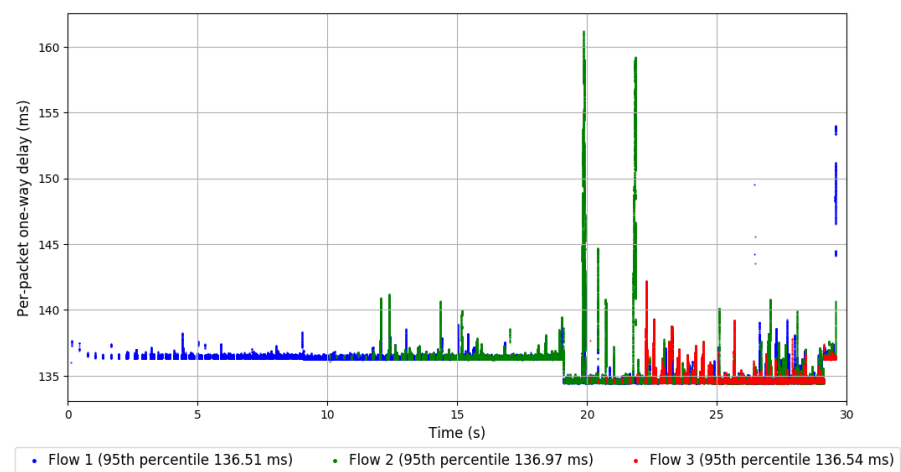
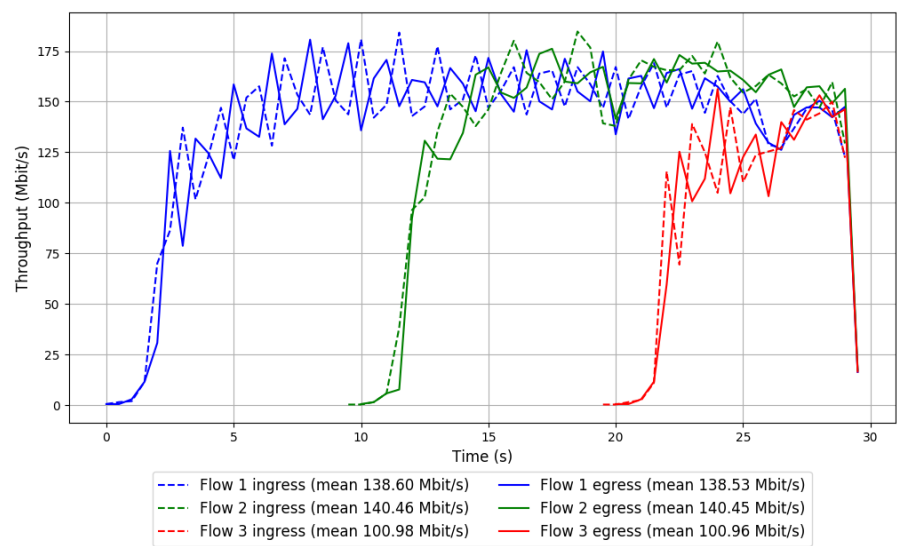
-- Flow 3:

Average throughput: 100.96 Mbit/s

95th percentile per-packet one-way delay: 136.539 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-22 05:00:11

End at: 2017-11-22 05:00:41

Below is generated by plot.py at 2017-11-22 08:16:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.87 Mbit/s

95th percentile per-packet one-way delay: 138.020 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 149.36 Mbit/s

95th percentile per-packet one-way delay: 137.536 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 139.37 Mbit/s

95th percentile per-packet one-way delay: 138.555 ms

Loss rate: 0.01%

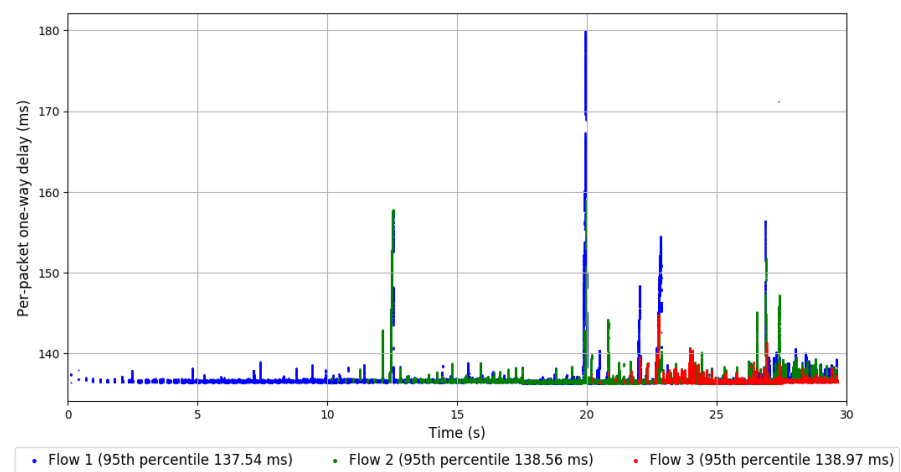
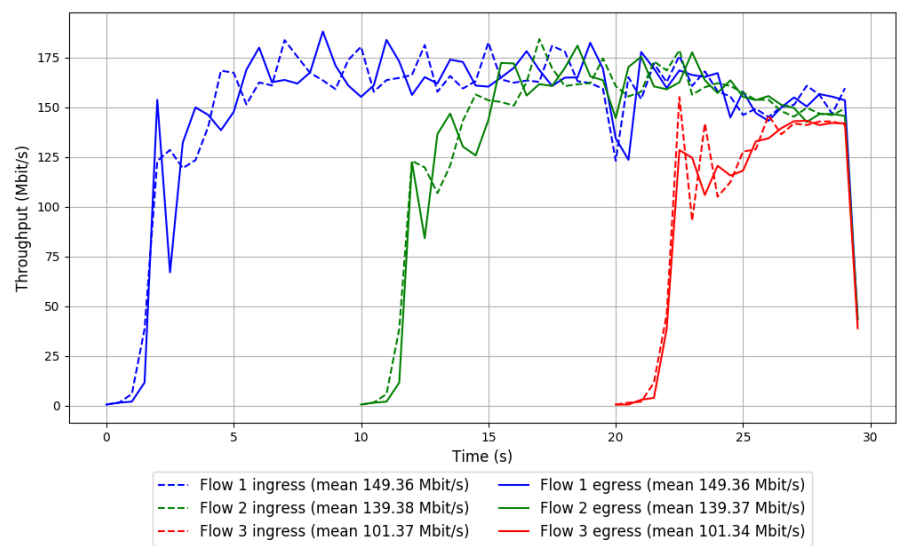
-- Flow 3:

Average throughput: 101.34 Mbit/s

95th percentile per-packet one-way delay: 138.973 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-22 05:14:33

End at: 2017-11-22 05:15:03

Below is generated by plot.py at 2017-11-22 08:16:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.50 Mbit/s

95th percentile per-packet one-way delay: 137.004 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.74 Mbit/s

95th percentile per-packet one-way delay: 136.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.13 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 0.00%

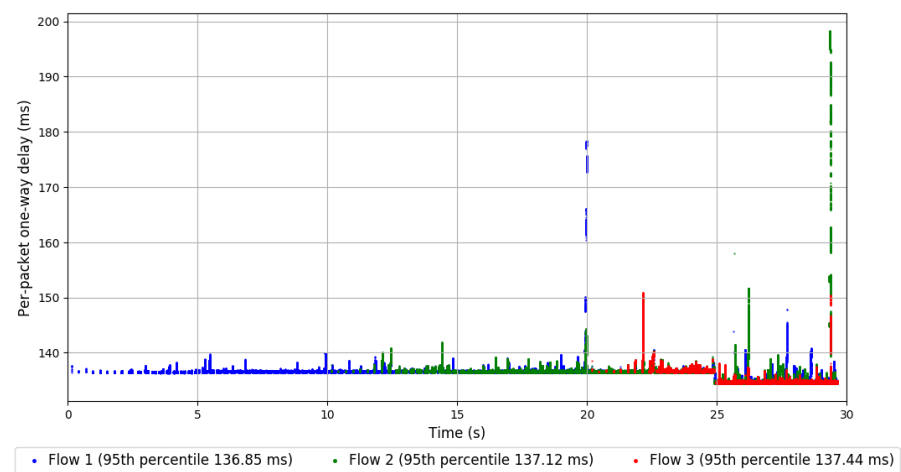
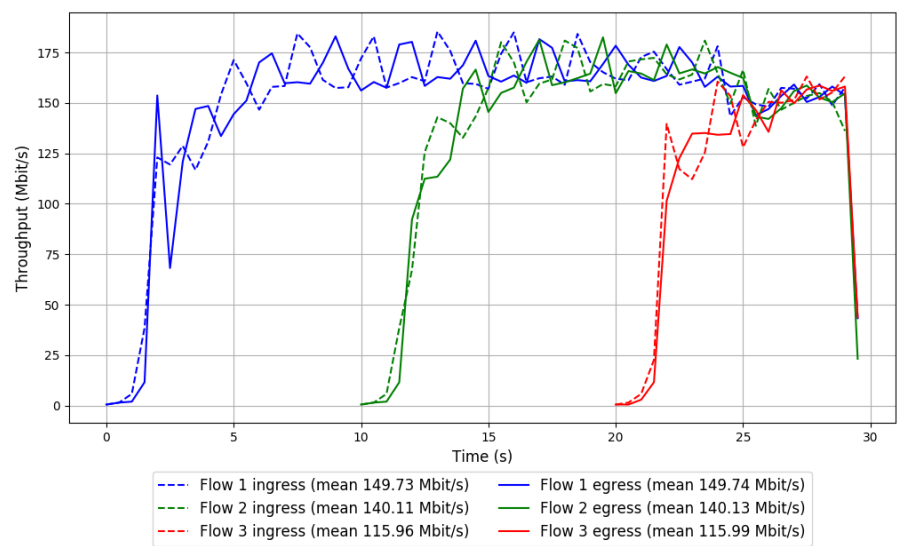
-- Flow 3:

Average throughput: 115.99 Mbit/s

95th percentile per-packet one-way delay: 137.440 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-22 05:28:55

End at: 2017-11-22 05:29:25

Below is generated by plot.py at 2017-11-22 08:16:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.23 Mbit/s

95th percentile per-packet one-way delay: 137.614 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 152.16 Mbit/s

95th percentile per-packet one-way delay: 137.338 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 143.23 Mbit/s

95th percentile per-packet one-way delay: 137.837 ms

Loss rate: 0.02%

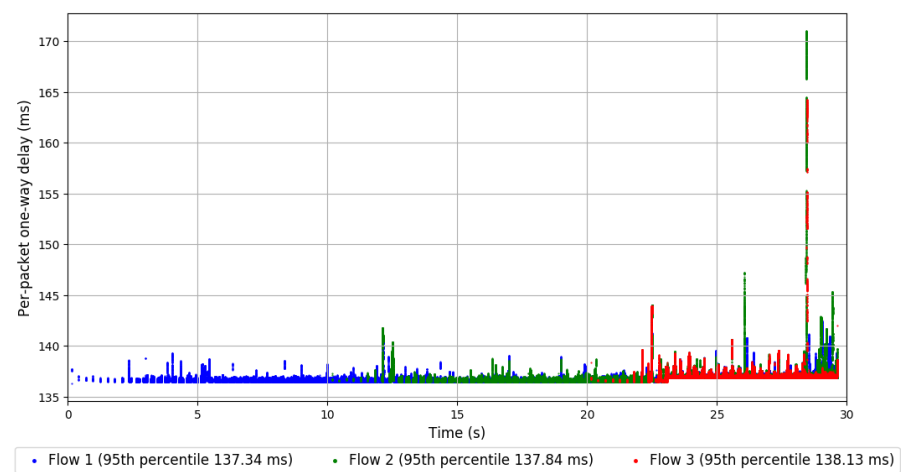
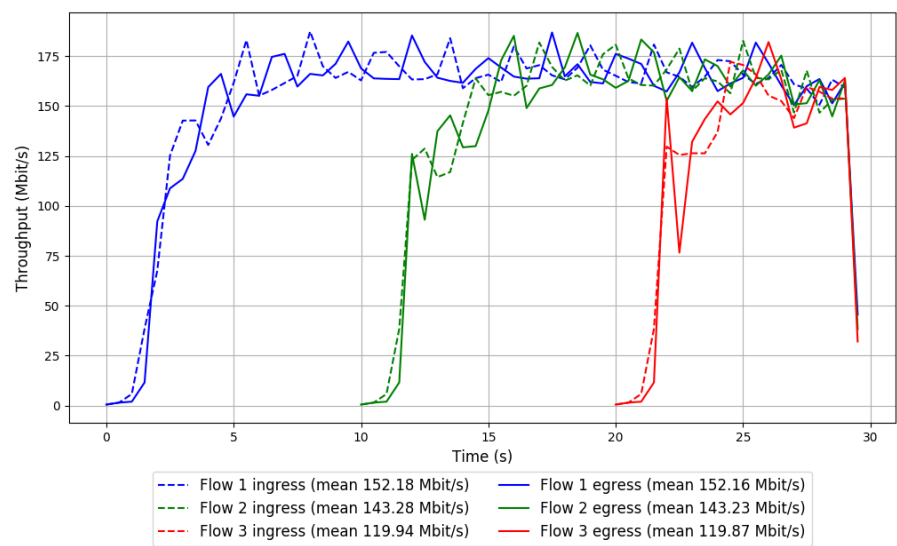
-- Flow 3:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 138.130 ms

Loss rate: 0.03%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-22 05:43:14

End at: 2017-11-22 05:43:44

Below is generated by plot.py at 2017-11-22 08:17:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.41 Mbit/s

95th percentile per-packet one-way delay: 137.539 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.66 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.19 Mbit/s

95th percentile per-packet one-way delay: 137.996 ms

Loss rate: 0.00%

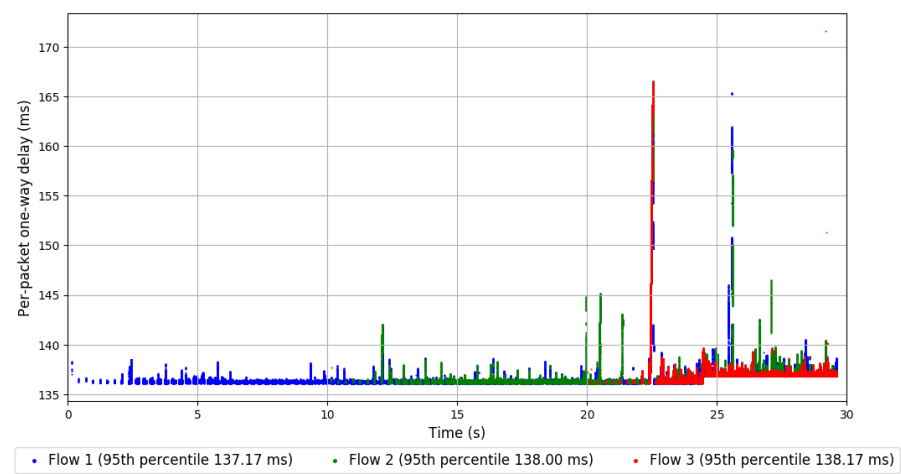
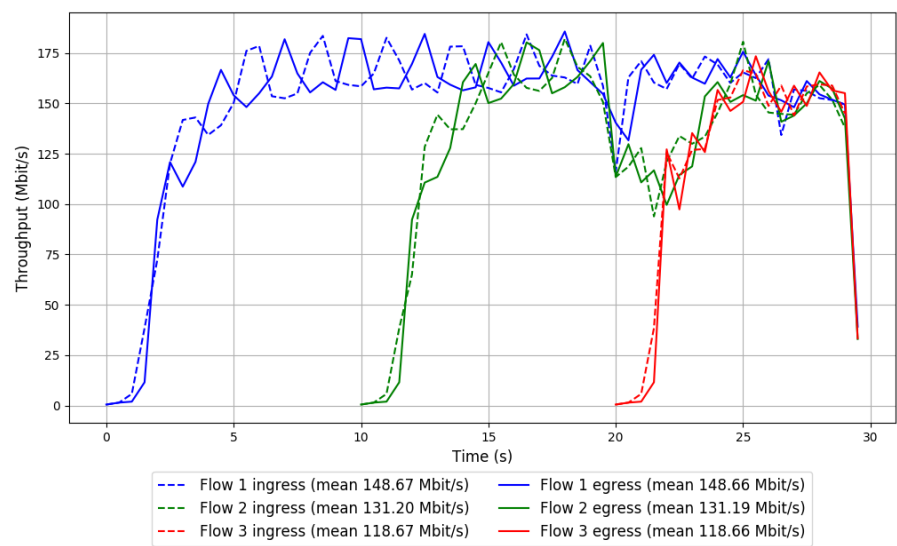
-- Flow 3:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 138.170 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-22 05:57:28

End at: 2017-11-22 05:57:58

Below is generated by plot.py at 2017-11-22 08:17:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.79 Mbit/s

95th percentile per-packet one-way delay: 137.231 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.01 Mbit/s

95th percentile per-packet one-way delay: 136.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 142.63 Mbit/s

95th percentile per-packet one-way delay: 138.255 ms

Loss rate: 0.01%

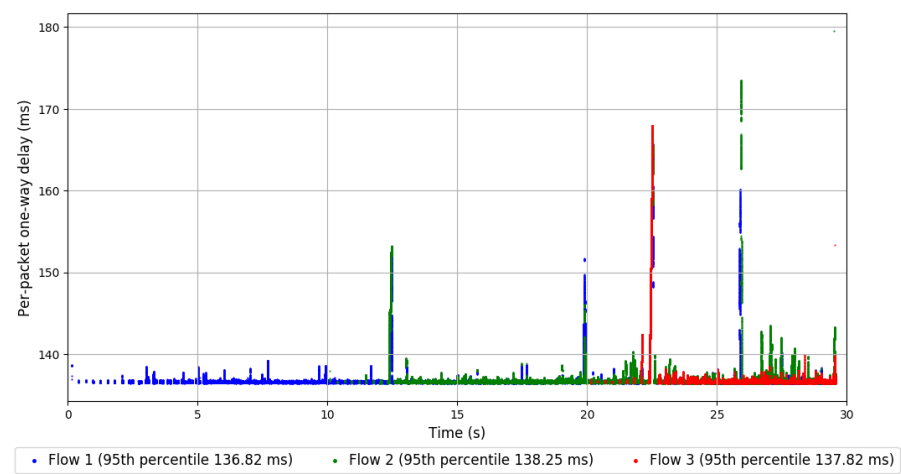
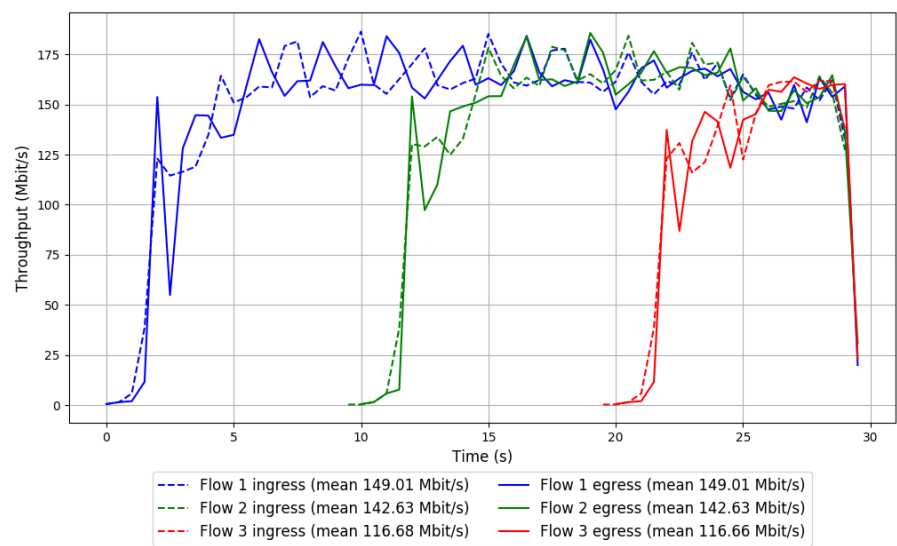
-- Flow 3:

Average throughput: 116.66 Mbit/s

95th percentile per-packet one-way delay: 137.822 ms

Loss rate: 0.02%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-22 06:11:34

End at: 2017-11-22 06:12:04

Below is generated by plot.py at 2017-11-22 08:19:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.90 Mbit/s

95th percentile per-packet one-way delay: 137.166 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.27 Mbit/s

95th percentile per-packet one-way delay: 136.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.90 Mbit/s

95th percentile per-packet one-way delay: 137.128 ms

Loss rate: 0.00%

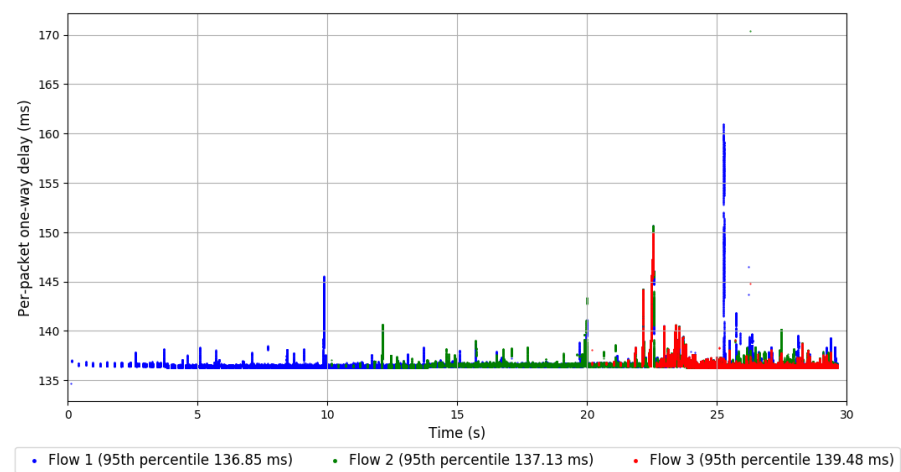
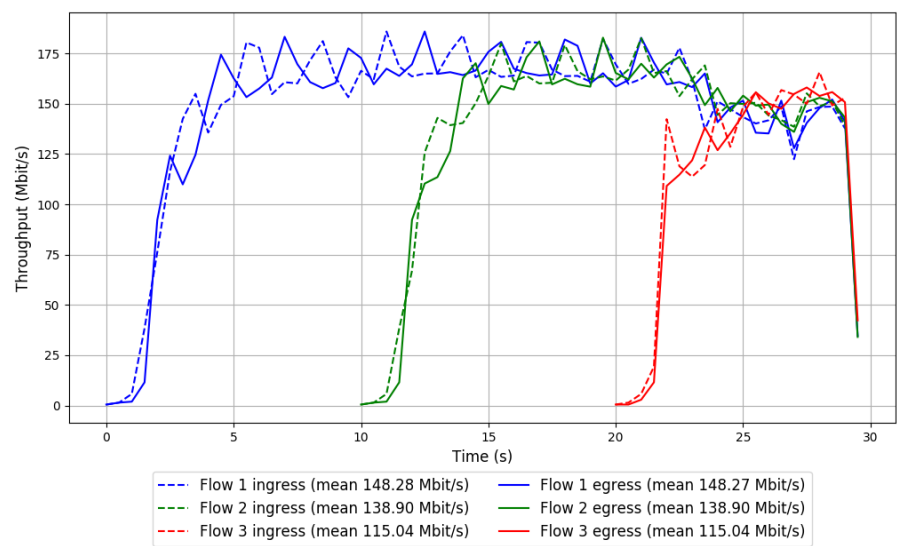
-- Flow 3:

Average throughput: 115.04 Mbit/s

95th percentile per-packet one-way delay: 139.482 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-22 06:25:52

End at: 2017-11-22 06:26:22

Below is generated by plot.py at 2017-11-22 08:20:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.34 Mbit/s

95th percentile per-packet one-way delay: 136.943 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 138.74 Mbit/s

95th percentile per-packet one-way delay: 136.776 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 140.21 Mbit/s

95th percentile per-packet one-way delay: 137.094 ms

Loss rate: 0.00%

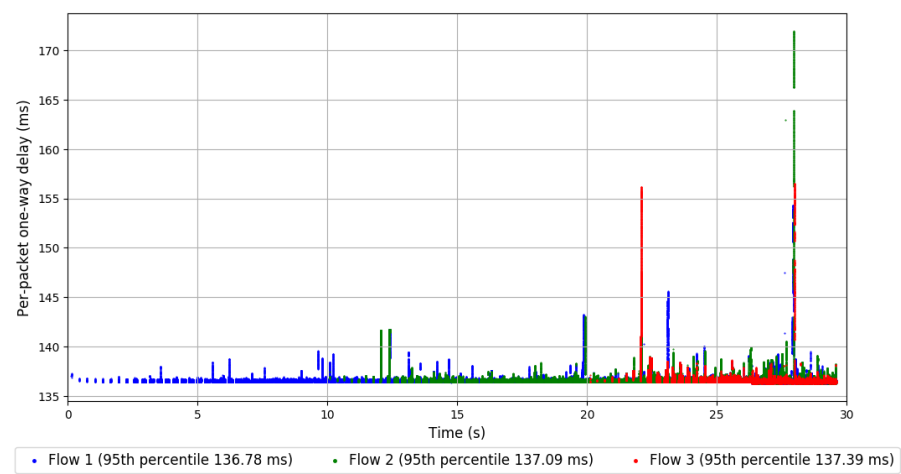
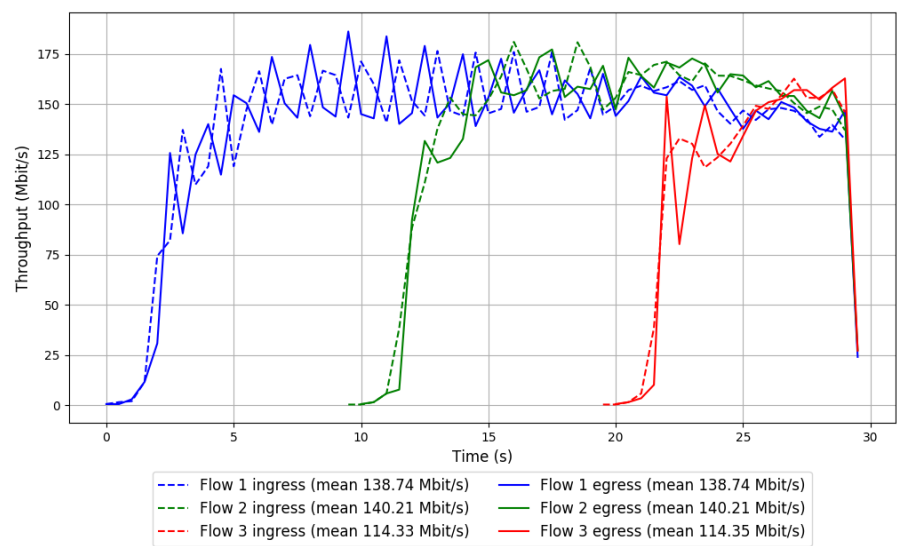
-- Flow 3:

Average throughput: 114.35 Mbit/s

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

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-22 06:39:52

End at: 2017-11-22 06:40:22

Below is generated by plot.py at 2017-11-22 08:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.44 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.53 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.63 Mbit/s

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

Loss rate: 0.00%

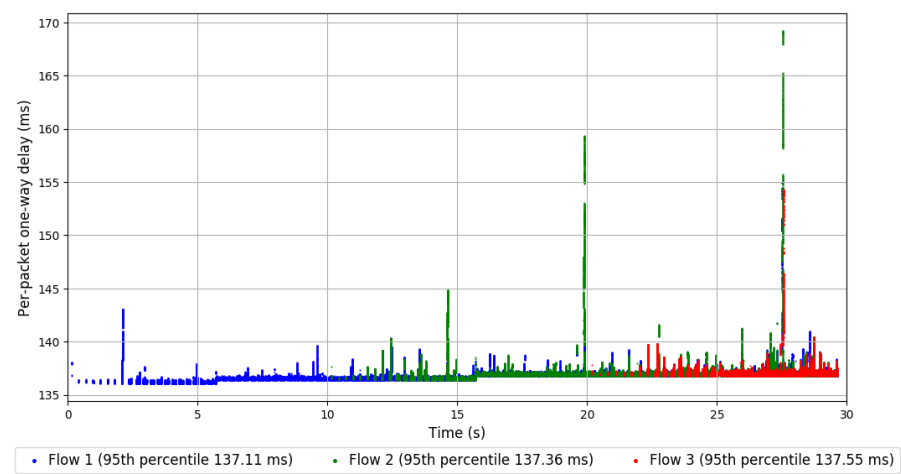
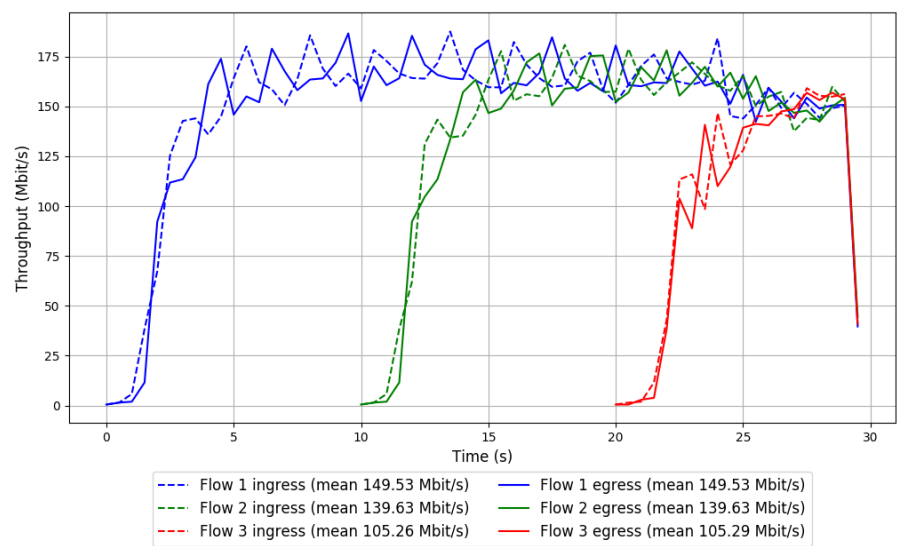
-- Flow 3:

Average throughput: 105.29 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

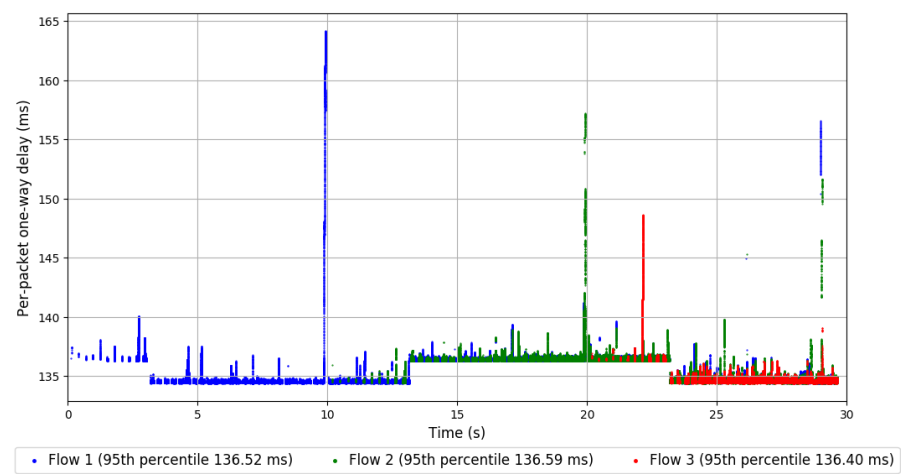
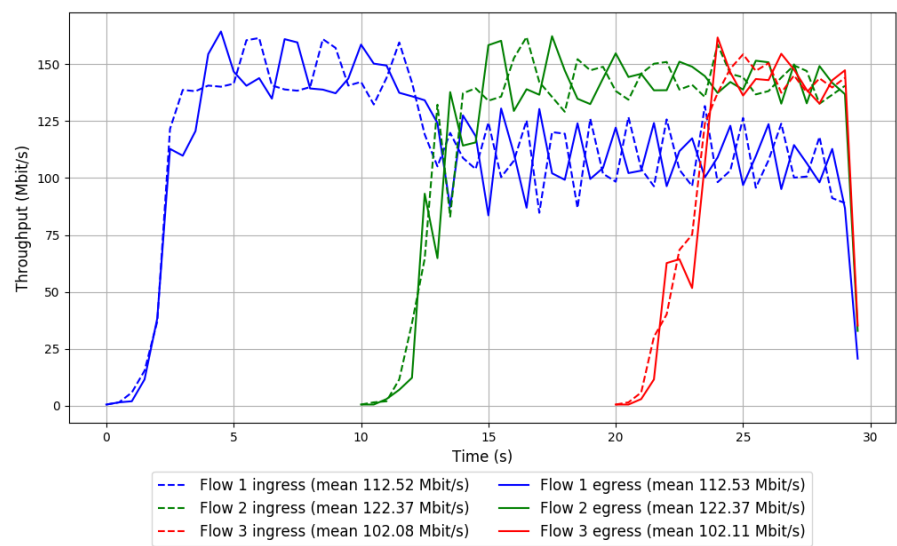


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-22 04:22:05
End at: 2017-11-22 04:22:35

# Below is generated by plot.py at 2017-11-22 08:20:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 225.83 Mbit/s
95th percentile per-packet one-way delay: 136.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.53 Mbit/s
95th percentile per-packet one-way delay: 136.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 122.37 Mbit/s
95th percentile per-packet one-way delay: 136.591 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 102.11 Mbit/s
95th percentile per-packet one-way delay: 136.396 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

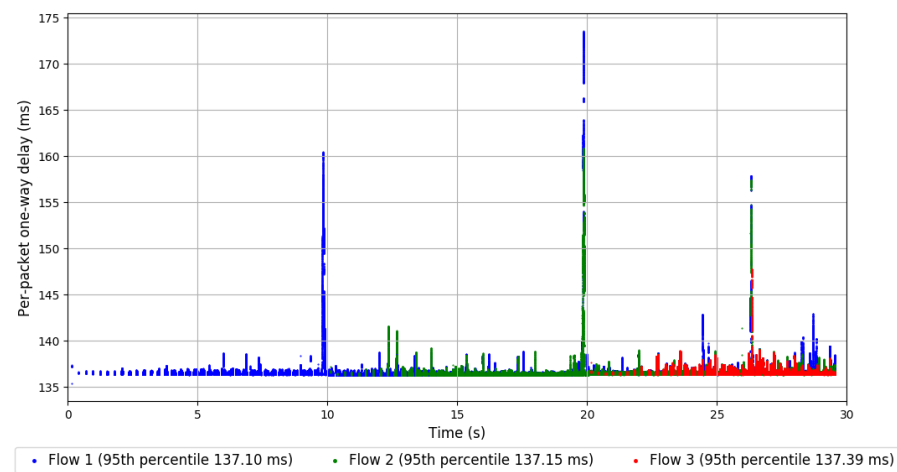
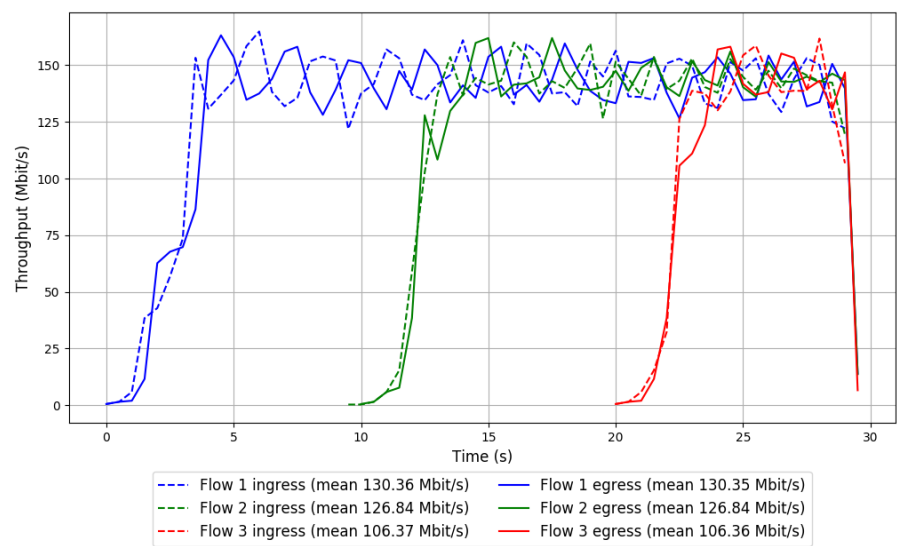


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-22 04:36:28
End at: 2017-11-22 04:36:58

# Below is generated by plot.py at 2017-11-22 08:20:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.18 Mbit/s
95th percentile per-packet one-way delay: 137.186 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 130.35 Mbit/s
95th percentile per-packet one-way delay: 137.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 126.84 Mbit/s
95th percentile per-packet one-way delay: 137.149 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 106.36 Mbit/s
95th percentile per-packet one-way delay: 137.386 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-22 04:50:59

End at: 2017-11-22 04:51:29

Below is generated by plot.py at 2017-11-22 08:20:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.09 Mbit/s

95th percentile per-packet one-way delay: 136.727 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 130.17 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 122.84 Mbit/s

95th percentile per-packet one-way delay: 136.705 ms

Loss rate: 0.01%

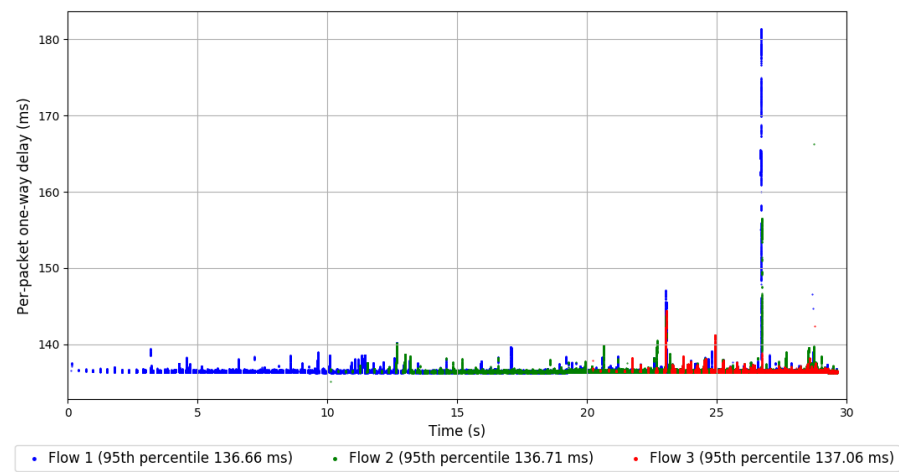
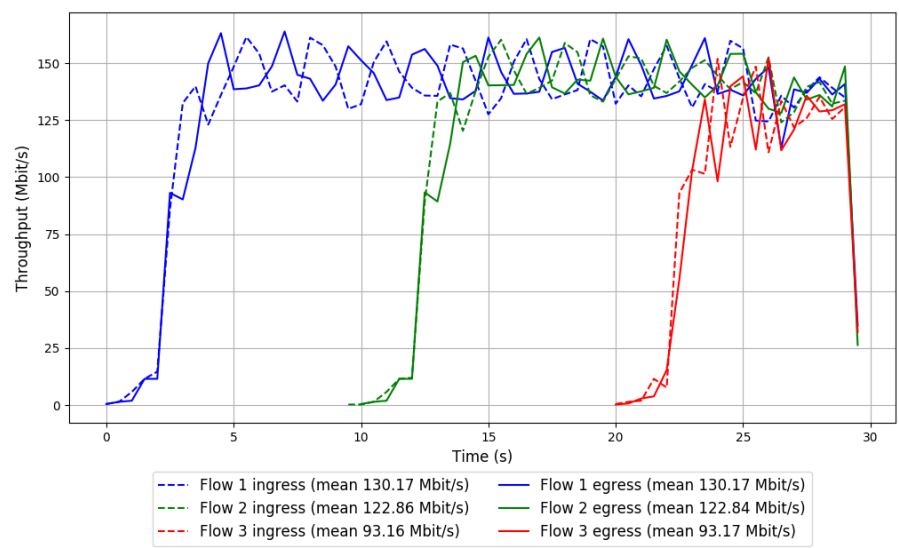
-- Flow 3:

Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 137.062 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link

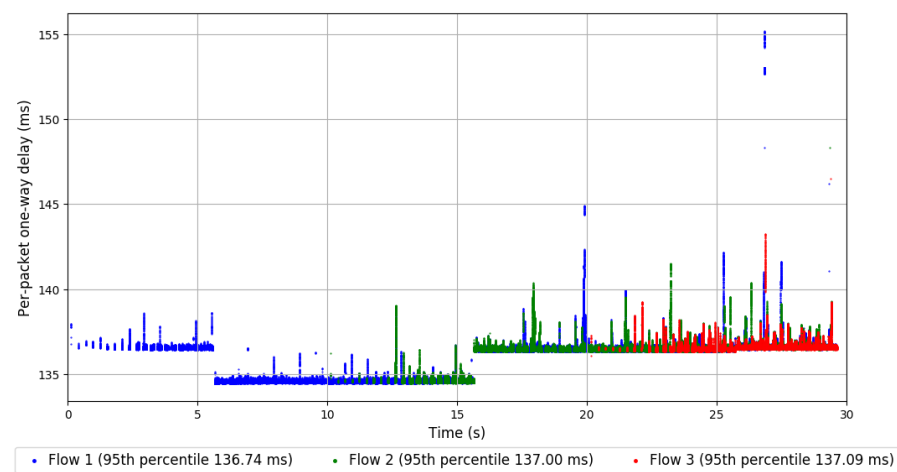
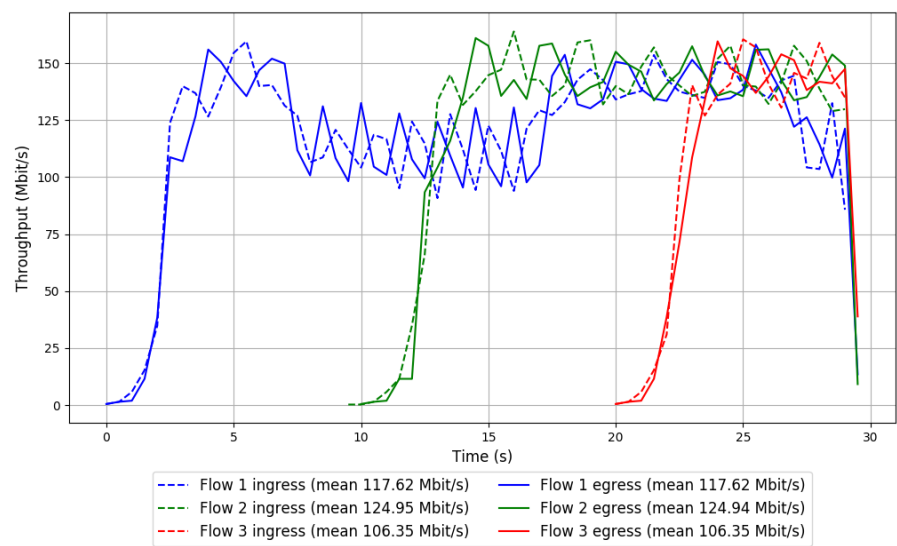


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-22 05:05:02
End at: 2017-11-22 05:05:32

# Below is generated by plot.py at 2017-11-22 08:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.92 Mbit/s
95th percentile per-packet one-way delay: 136.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.62 Mbit/s
95th percentile per-packet one-way delay: 136.738 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.94 Mbit/s
95th percentile per-packet one-way delay: 137.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.35 Mbit/s
95th percentile per-packet one-way delay: 137.092 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link

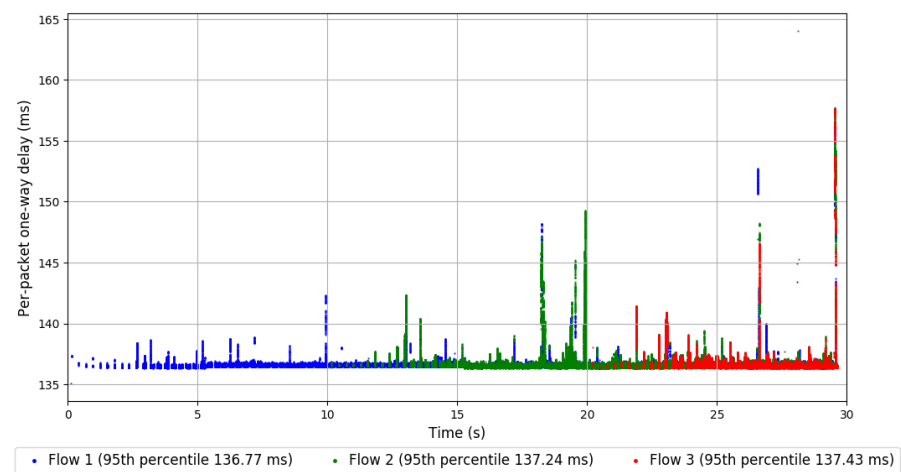
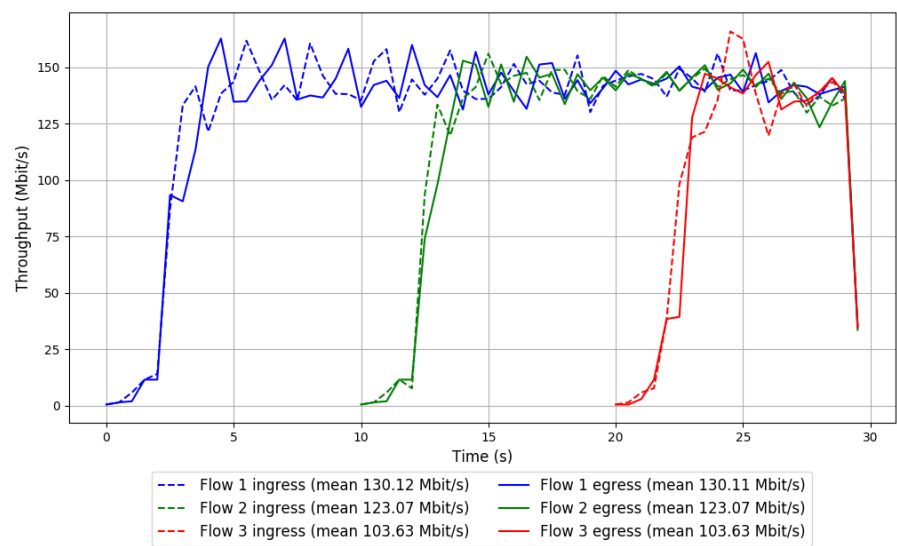


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-22 05:19:23
End at: 2017-11-22 05:19:53

# Below is generated by plot.py at 2017-11-22 08:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.37 Mbit/s
95th percentile per-packet one-way delay: 136.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.11 Mbit/s
95th percentile per-packet one-way delay: 136.770 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 123.07 Mbit/s
95th percentile per-packet one-way delay: 137.237 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.63 Mbit/s
95th percentile per-packet one-way delay: 137.431 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-calib — Data Link

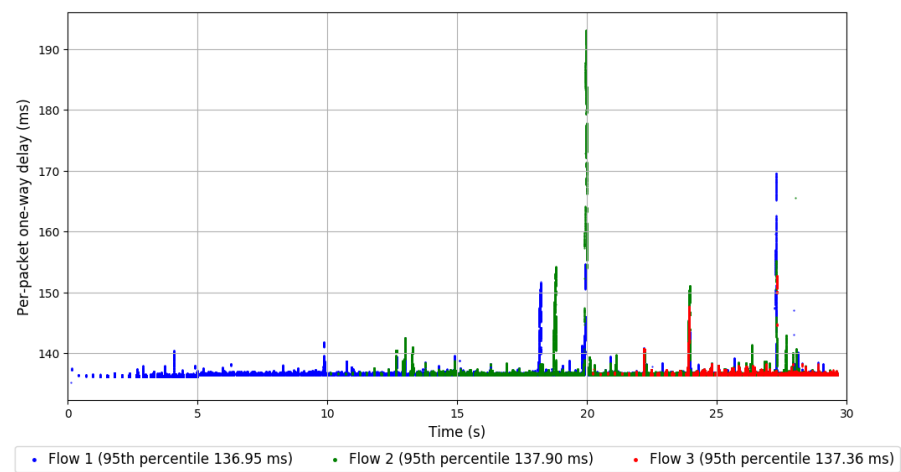
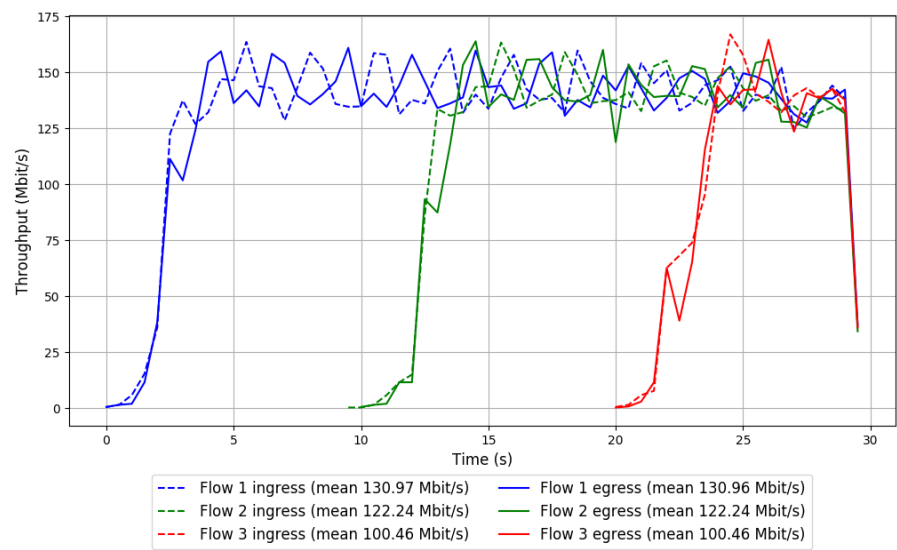


```
Run 6: Statistics of Indigo-calib

Start at: 2017-11-22 05:33:43
End at: 2017-11-22 05:34:13

# Below is generated by plot.py at 2017-11-22 08:22:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.75 Mbit/s
95th percentile per-packet one-way delay: 137.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.96 Mbit/s
95th percentile per-packet one-way delay: 136.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 122.24 Mbit/s
95th percentile per-packet one-way delay: 137.896 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.46 Mbit/s
95th percentile per-packet one-way delay: 137.359 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-22 05:48:01

End at: 2017-11-22 05:48:31

Below is generated by plot.py at 2017-11-22 08:22:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.41 Mbit/s

95th percentile per-packet one-way delay: 137.832 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 130.28 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.39 Mbit/s

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

Loss rate: 0.01%

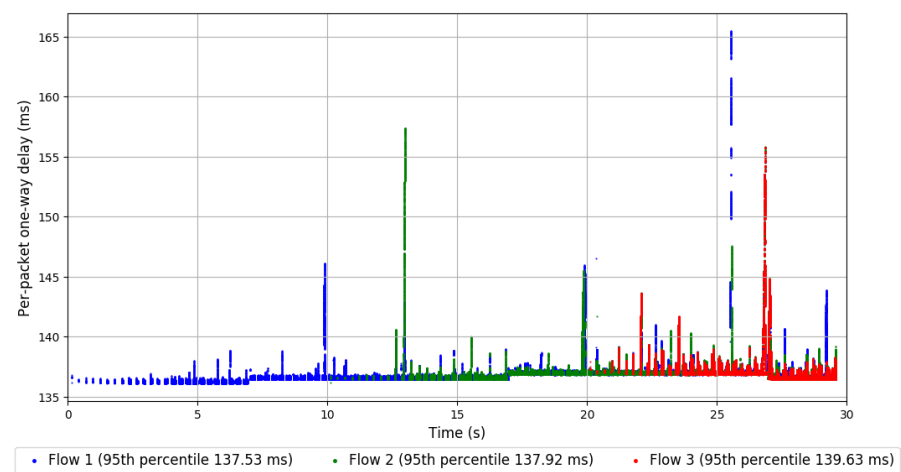
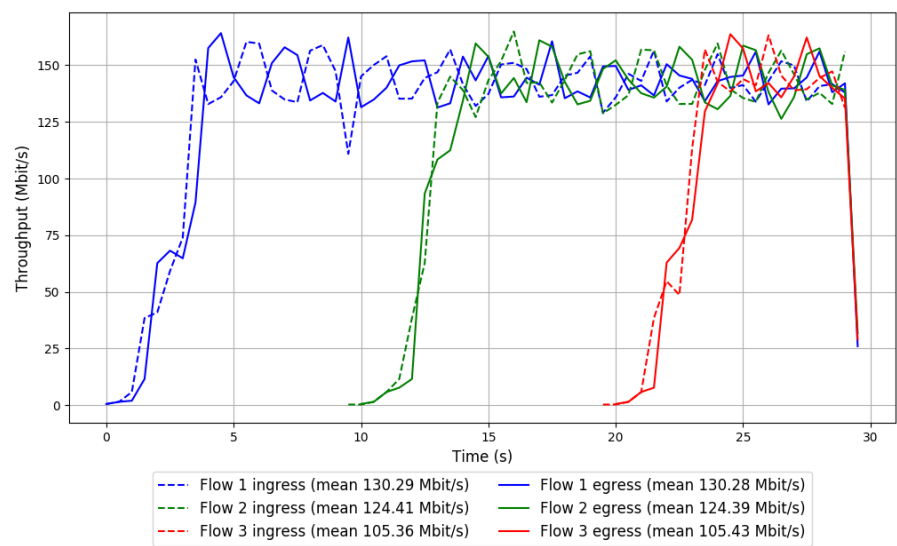
-- Flow 3:

Average throughput: 105.43 Mbit/s

95th percentile per-packet one-way delay: 139.634 ms

Loss rate: 0.02%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-22 06:02:19

End at: 2017-11-22 06:02:49

Below is generated by plot.py at 2017-11-22 08:22:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.14 Mbit/s

95th percentile per-packet one-way delay: 136.983 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 131.21 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.11 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.01%

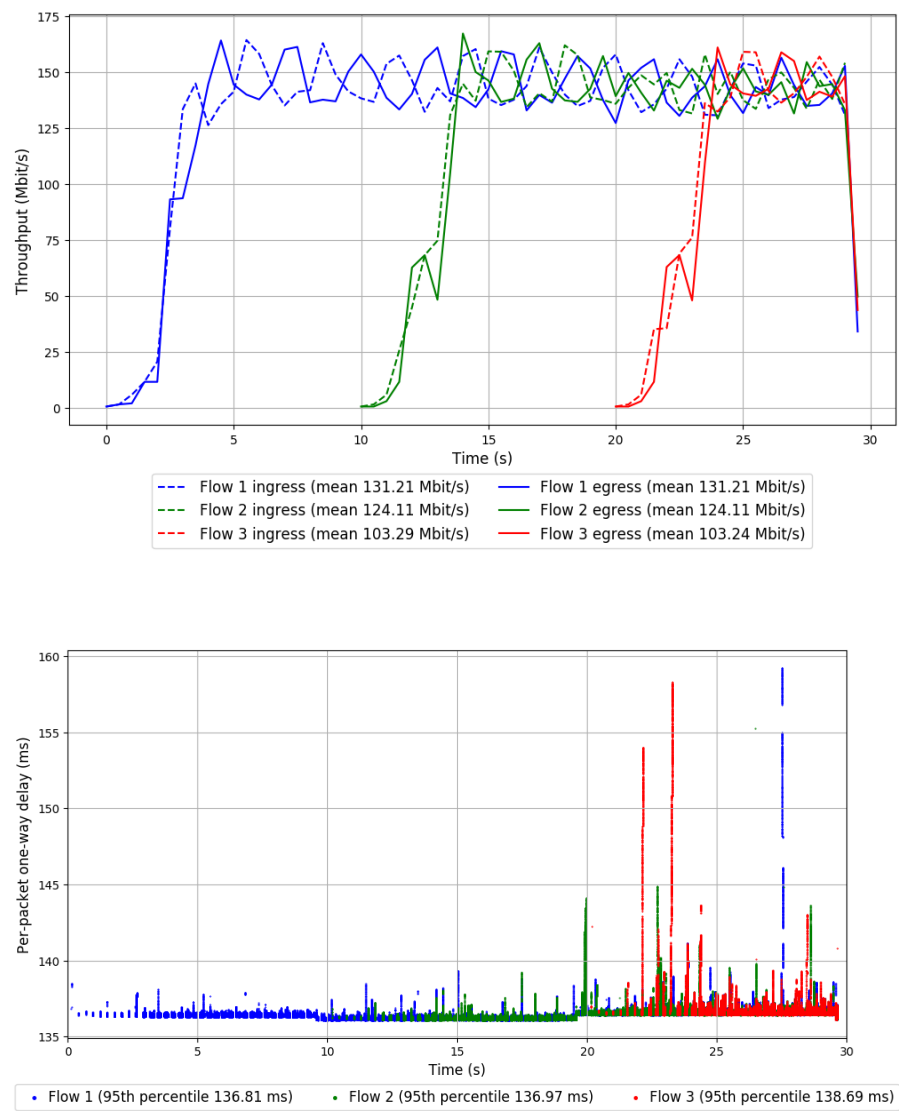
-- Flow 3:

Average throughput: 103.24 Mbit/s

95th percentile per-packet one-way delay: 138.690 ms

Loss rate: 0.03%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-22 06:16:24

End at: 2017-11-22 06:16:54

Below is generated by plot.py at 2017-11-22 08:22:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.23 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 130.03 Mbit/s

95th percentile per-packet one-way delay: 136.726 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 123.85 Mbit/s

95th percentile per-packet one-way delay: 136.972 ms

Loss rate: 0.01%

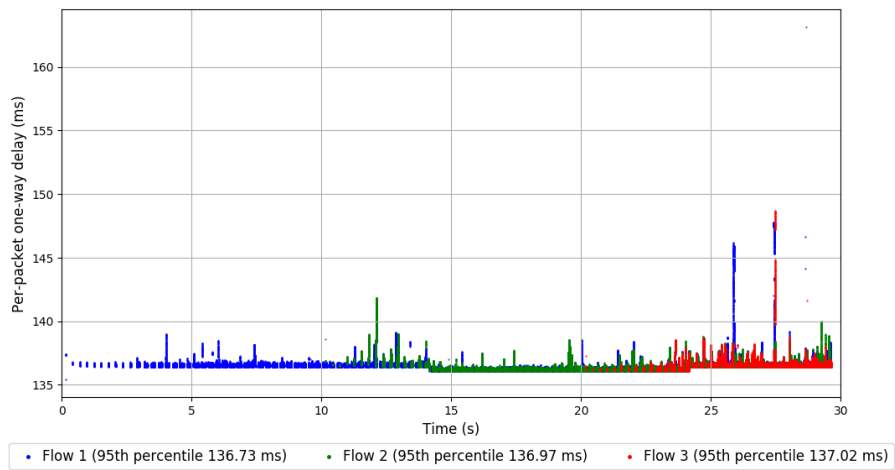
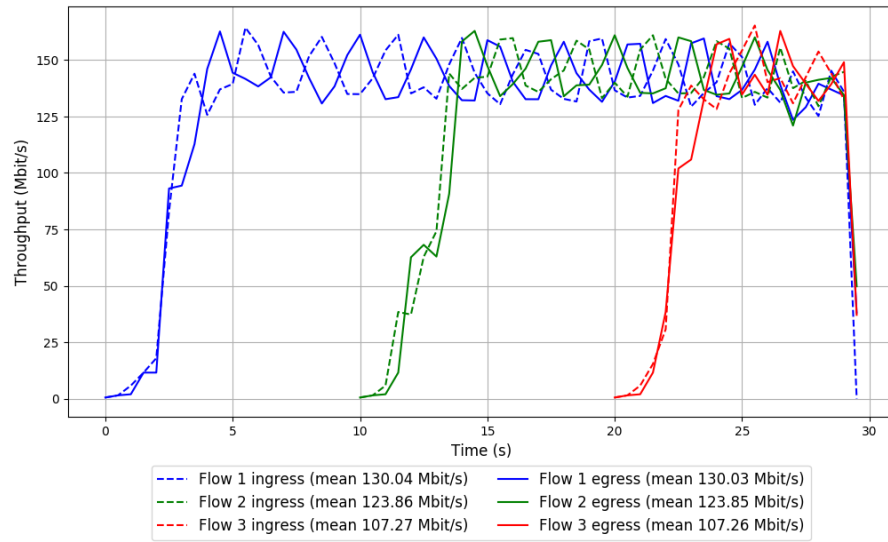
-- Flow 3:

Average throughput: 107.26 Mbit/s

95th percentile per-packet one-way delay: 137.022 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-22 06:30:43

End at: 2017-11-22 06:31:13

Below is generated by plot.py at 2017-11-22 08:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.37 Mbit/s

95th percentile per-packet one-way delay: 137.029 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 130.19 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 126.59 Mbit/s

95th percentile per-packet one-way delay: 137.770 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 108.16 Mbit/s

95th percentile per-packet one-way delay: 136.888 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

