

Pantheon Report

Generated at 2017-12-06 03:28:57 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia 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).

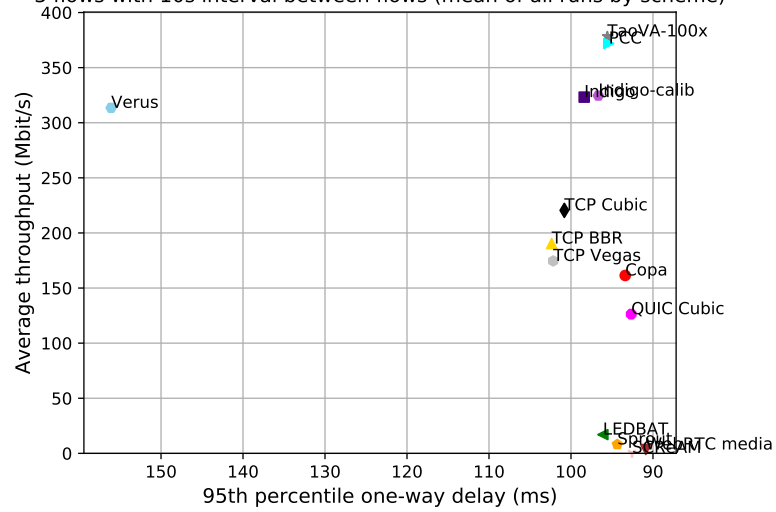
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

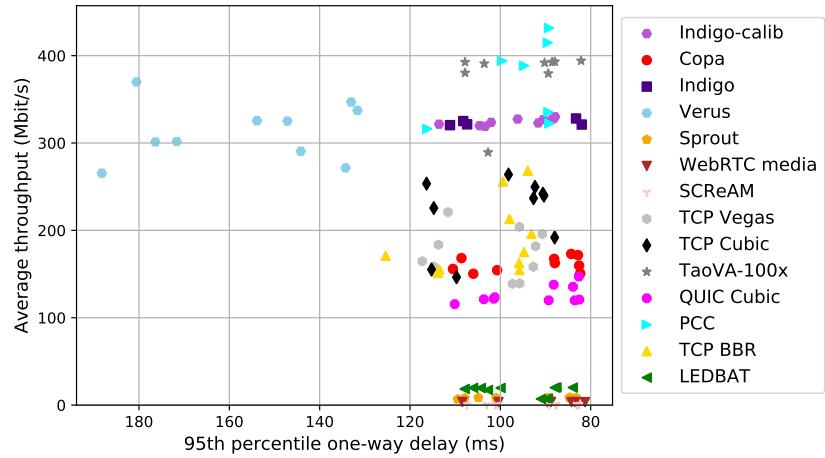
Git summary:

```
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 @ 03455460fd1a8ffbdad86fabb936fdca204b80db
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 AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



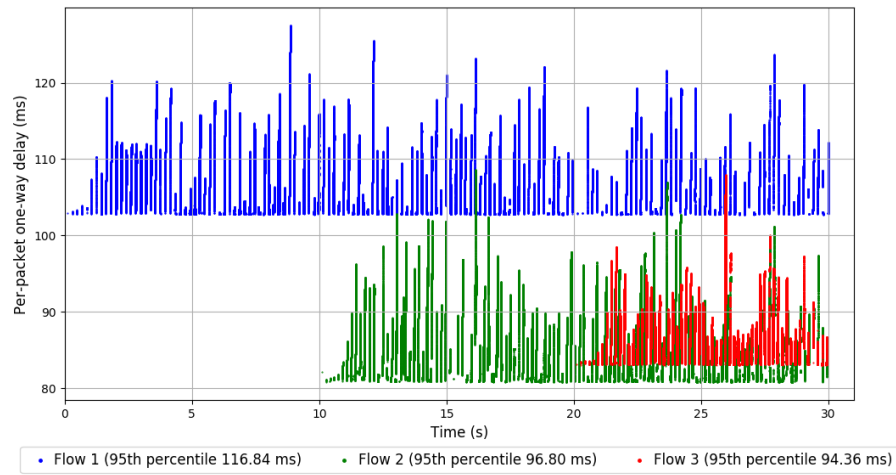
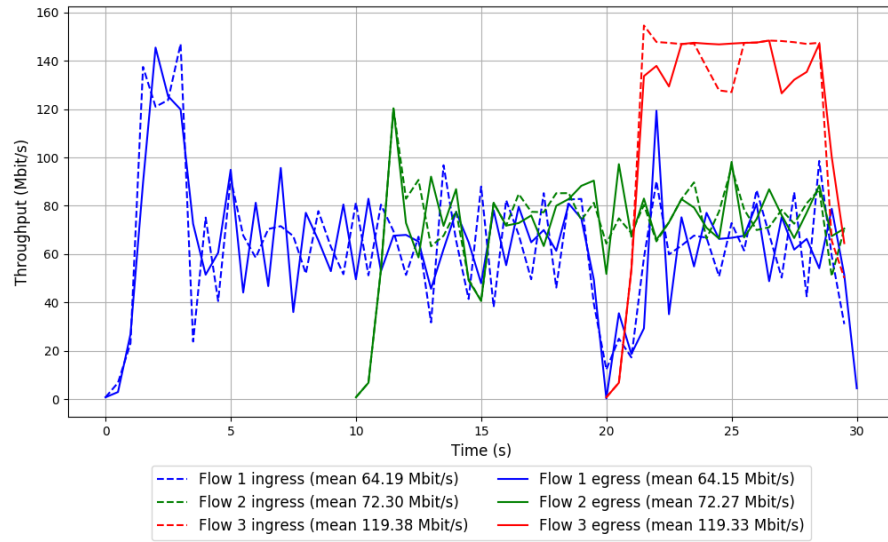
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	98.32	92.43	92.88	102.67	98.30	98.33	0.03	0.08	0.05
TCP Cubic	10	118.31	111.89	84.24	98.97	96.73	98.33	0.03	0.01	0.16
LEDBAT	10	10.12	8.39	3.81	354.86	90.56	96.13	0.00	0.03	0.00
PCC	7	227.08	145.25	140.76	670.64	94.72	89.69	9.04	12.18	14.14
QUIC Cubic	10	68.12	61.18	53.83	87.41	86.02	92.36	0.00	0.00	0.05
SCReAM	10	0.22	0.22	0.22	88.31	90.54	87.50	0.01	0.00	0.00
WebRTC media	7	1.99	1.19	0.33	88.31	87.68	90.06	0.00	0.00	0.00
Sprout	10	4.25	4.06	3.59	90.65	90.62	90.20	0.00	0.03	0.00
TaoVA-100x	9	217.59	196.73	121.95	90.91	92.81	93.94	1.30	2.24	5.43
TCP Vegas	10	94.57	79.64	81.50	98.12	97.16	96.87	0.01	0.03	0.03
Verus	10	186.29	148.66	87.95	139.72	151.16	138.24	4.07	8.61	9.27
Copa	10	88.98	81.77	70.38	90.39	89.52	88.53	0.01	0.00	0.04
Indigo	5	170.87	161.88	138.65	98.53	88.40	92.44	0.57	0.90	2.10
Indigo-calib	10	172.35	163.09	135.60	93.44	87.58	94.02	0.96	1.54	3.63

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 22:26:24
End at: 2017-12-05 22:26:54
Local clock offset: -1.965 ms
Remote clock offset: -4.171 ms

Below is generated by plot.py at 2017-12-06 02:39:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.39 Mbit/s
95th percentile per-packet one-way delay: 113.858 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 116.843 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 72.27 Mbit/s
95th percentile per-packet one-way delay: 96.801 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 119.33 Mbit/s
95th percentile per-packet one-way delay: 94.363 ms
Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 22:46:22

End at: 2017-12-05 22:46:52

Local clock offset: -2.669 ms

Remote clock offset: -2.5 ms

Below is generated by plot.py at 2017-12-06 02:39:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.21 Mbit/s

95th percentile per-packet one-way delay: 113.502 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 111.700 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 69.40 Mbit/s

95th percentile per-packet one-way delay: 116.539 ms

Loss rate: 0.46%

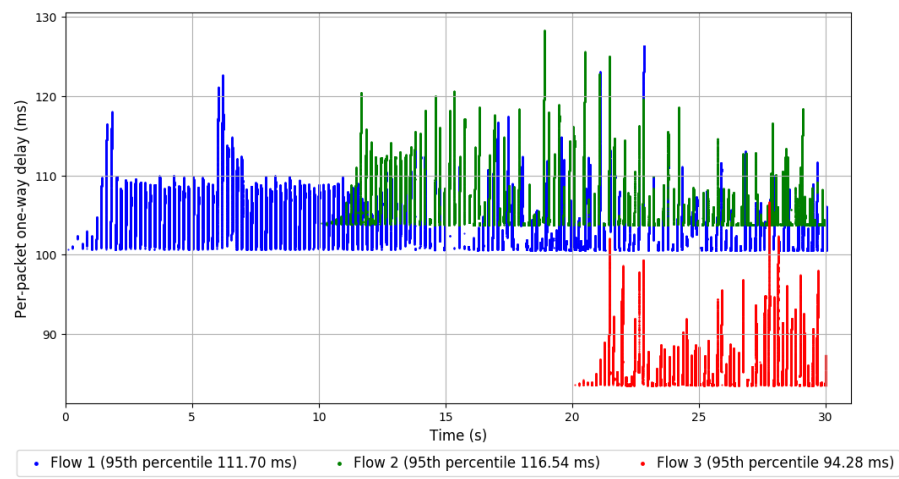
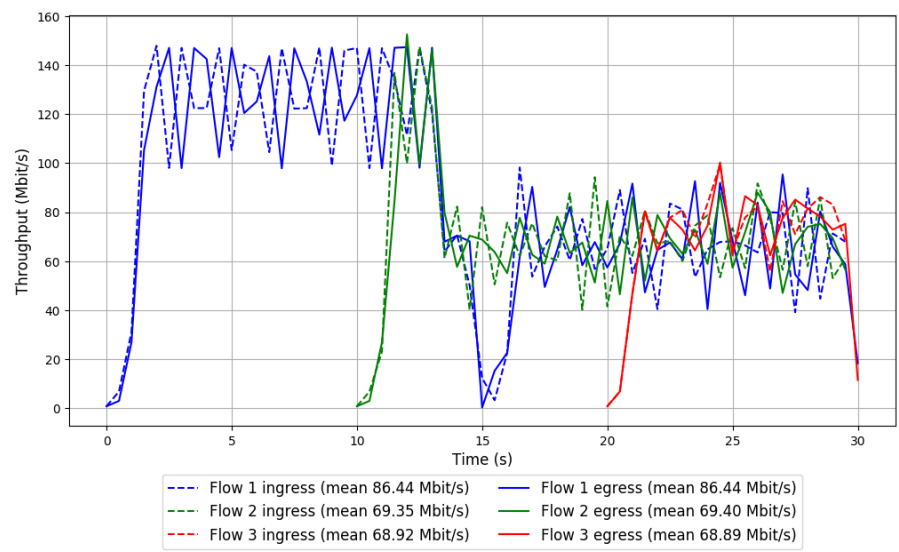
-- Flow 3:

Average throughput: 68.89 Mbit/s

95th percentile per-packet one-way delay: 94.277 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link

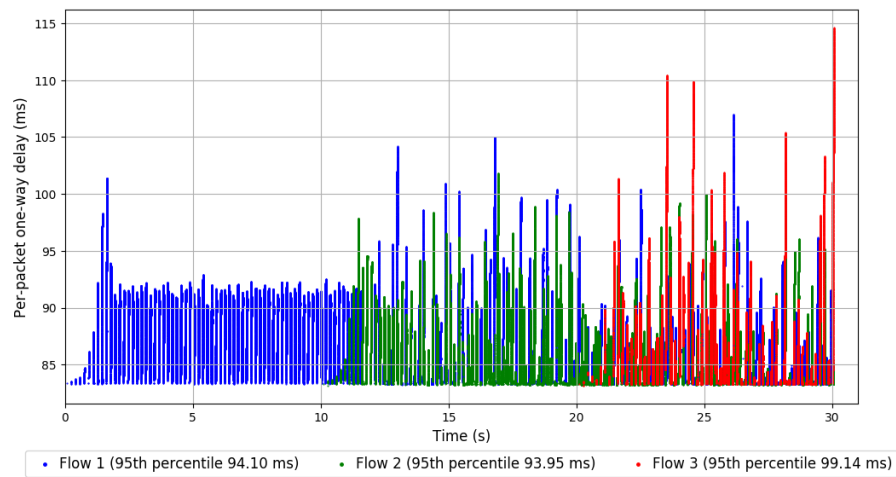
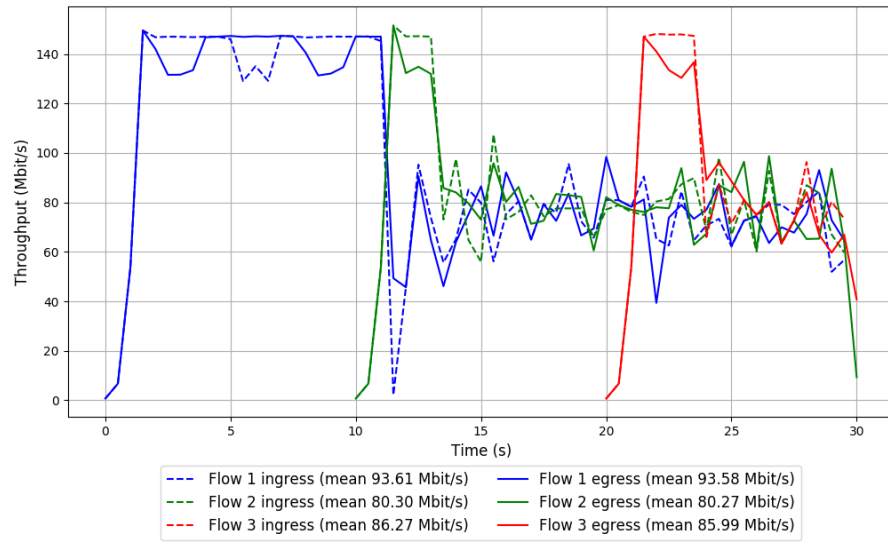


Run 3: Statistics of TCP BBR

Start at: 2017-12-05 23:06:24
End at: 2017-12-05 23:06:54
Local clock offset: -2.893 ms
Remote clock offset: -2.282 ms

Below is generated by plot.py at 2017-12-06 02:40:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 175.21 Mbit/s
95th percentile per-packet one-way delay: 94.766 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 94.104 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 80.27 Mbit/s
95th percentile per-packet one-way delay: 93.950 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 85.99 Mbit/s
95th percentile per-packet one-way delay: 99.139 ms
Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-05 23:26:58

End at: 2017-12-05 23:27:28

Local clock offset: -2.147 ms

Remote clock offset: 1.985 ms

Below is generated by plot.py at 2017-12-06 02:40:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.86 Mbit/s

95th percentile per-packet one-way delay: 125.386 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 77.62 Mbit/s

95th percentile per-packet one-way delay: 127.554 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.50 Mbit/s

95th percentile per-packet one-way delay: 101.444 ms

Loss rate: 0.03%

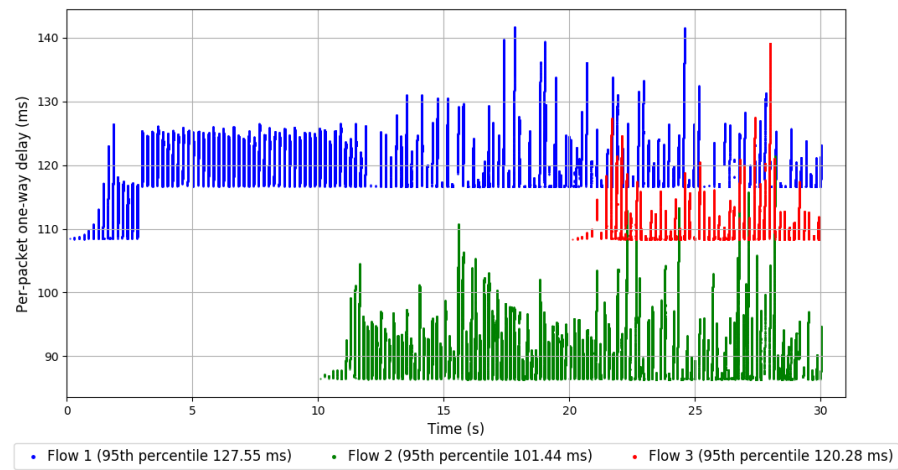
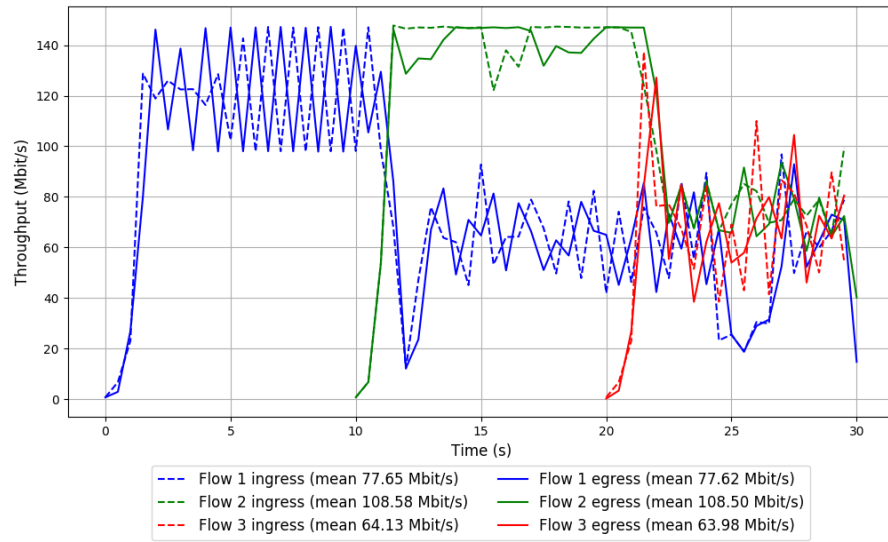
-- Flow 3:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 120.285 ms

Loss rate: 0.20%

Run 4: Report of TCP BBR — Data Link

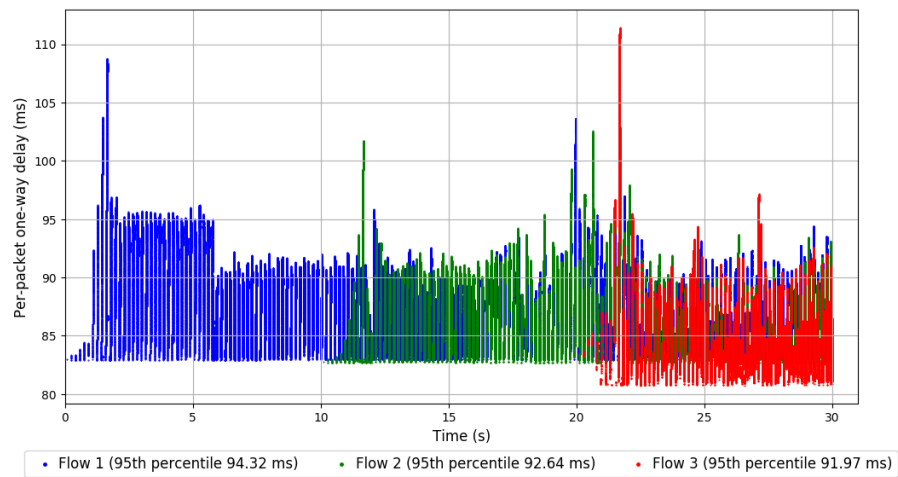
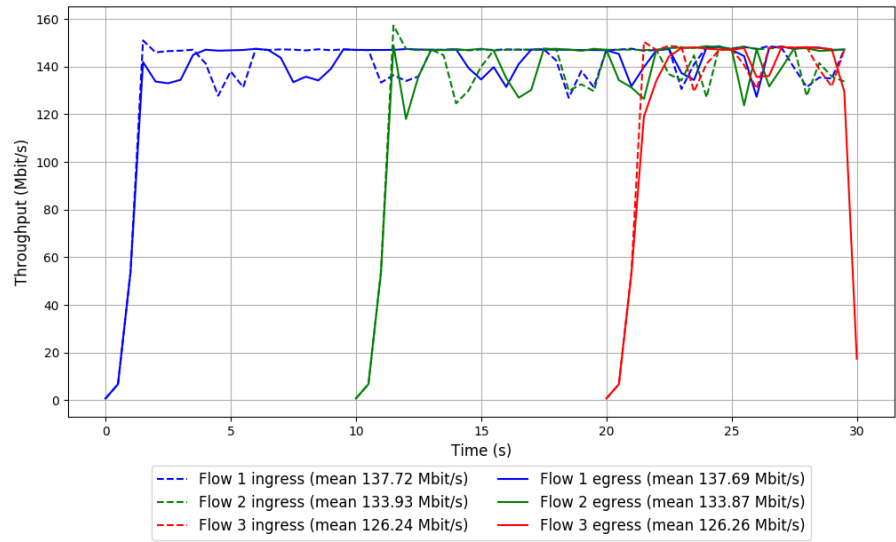


Run 5: Statistics of TCP BBR

Start at: 2017-12-05 23:47:18
End at: 2017-12-05 23:47:48
Local clock offset: -1.565 ms
Remote clock offset: -3.995 ms

Below is generated by plot.py at 2017-12-06 02:41:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.35 Mbit/s
95th percentile per-packet one-way delay: 93.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.69 Mbit/s
95th percentile per-packet one-way delay: 94.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.87 Mbit/s
95th percentile per-packet one-way delay: 92.635 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.26 Mbit/s
95th percentile per-packet one-way delay: 91.971 ms
Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link

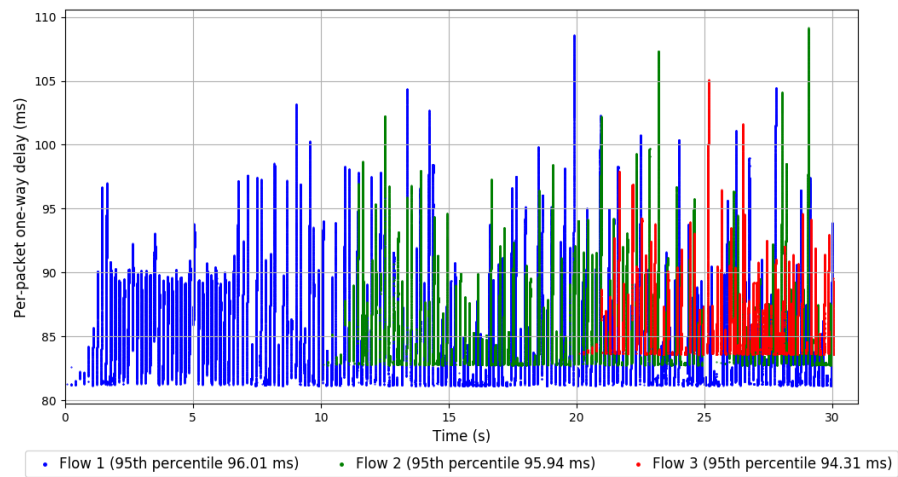
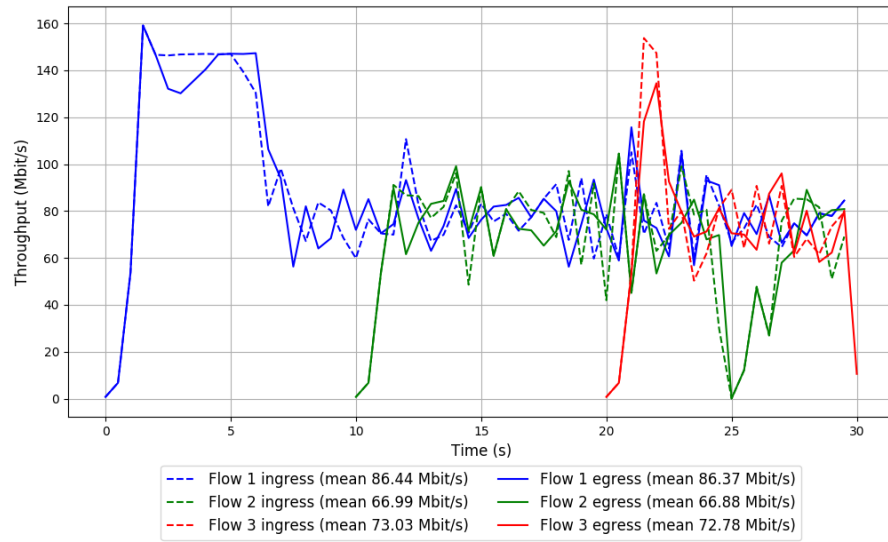


Run 6: Statistics of TCP BBR

Start at: 2017-12-06 00:07:51
End at: 2017-12-06 00:08:21
Local clock offset: -1.04 ms
Remote clock offset: -3.833 ms

Below is generated by plot.py at 2017-12-06 02:41:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.66 Mbit/s
95th percentile per-packet one-way delay: 95.783 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 86.37 Mbit/s
95th percentile per-packet one-way delay: 96.011 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 66.88 Mbit/s
95th percentile per-packet one-way delay: 95.942 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 94.312 ms
Loss rate: 0.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-06 00:28:05

End at: 2017-12-06 00:28:35

Local clock offset: -0.664 ms

Remote clock offset: 1.362 ms

Below is generated by plot.py at 2017-12-06 02:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.92 Mbit/s

95th percentile per-packet one-way delay: 99.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 124.09 Mbit/s

95th percentile per-packet one-way delay: 98.952 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.77 Mbit/s

95th percentile per-packet one-way delay: 98.768 ms

Loss rate: 0.00%

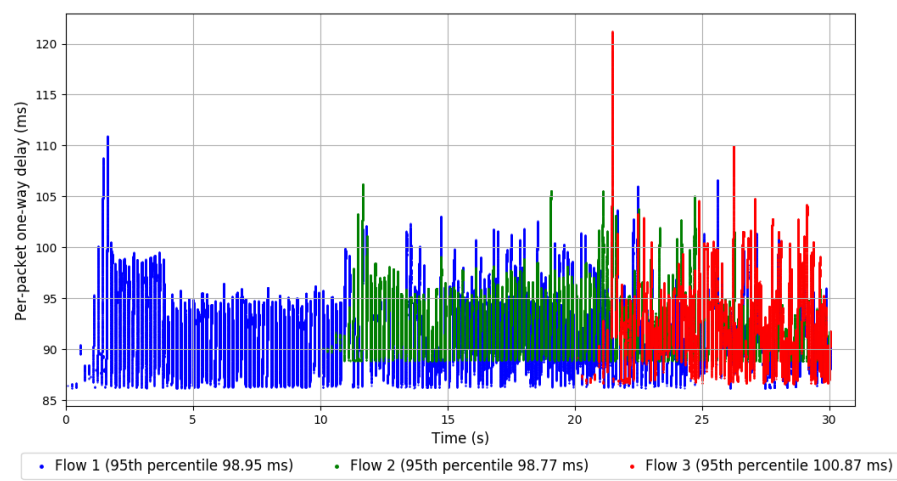
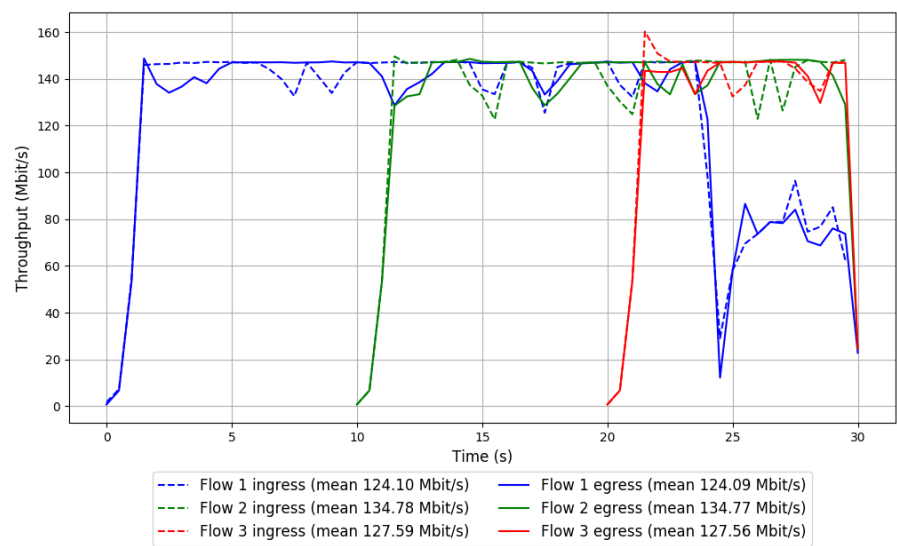
-- Flow 3:

Average throughput: 127.56 Mbit/s

95th percentile per-packet one-way delay: 100.867 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-06 00:48:19

End at: 2017-12-06 00:48:49

Local clock offset: -0.1 ms

Remote clock offset: 2.351 ms

Below is generated by plot.py at 2017-12-06 02:41:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.09 Mbit/s

95th percentile per-packet one-way delay: 97.975 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 112.04 Mbit/s

95th percentile per-packet one-way delay: 97.644 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 88.47 Mbit/s

95th percentile per-packet one-way delay: 98.804 ms

Loss rate: 0.02%

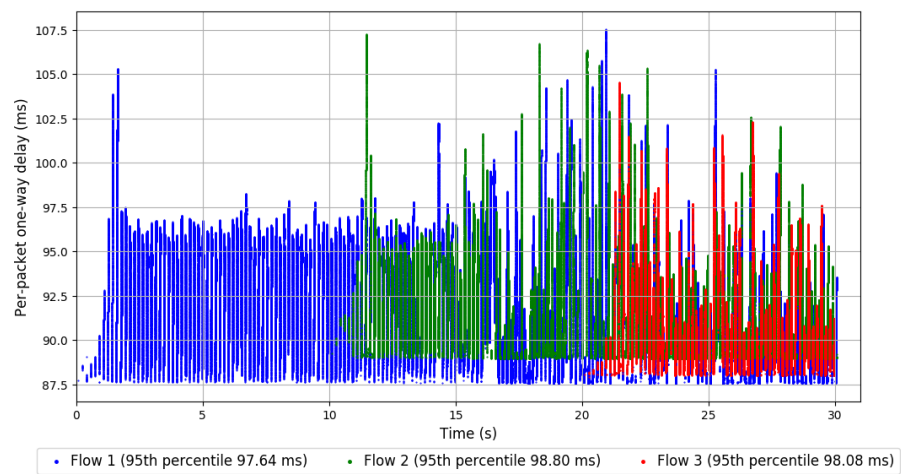
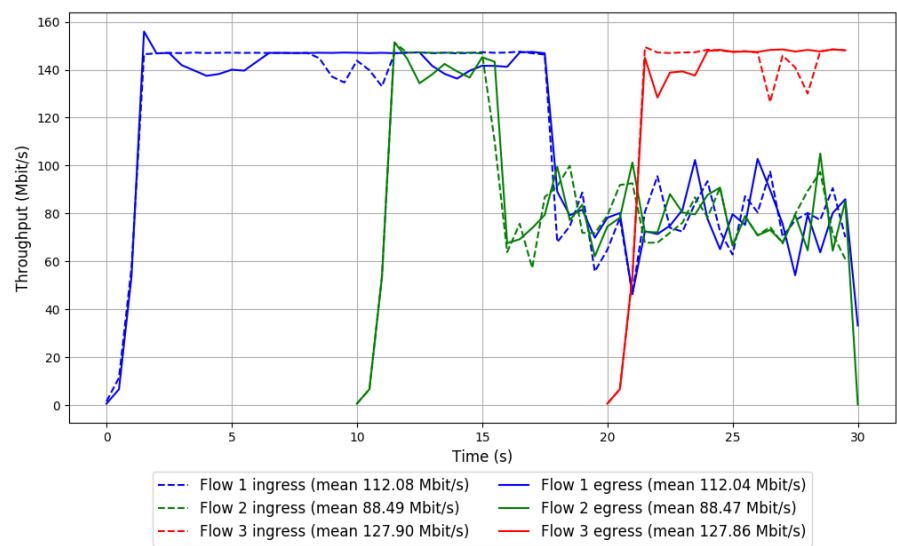
-- Flow 3:

Average throughput: 127.86 Mbit/s

95th percentile per-packet one-way delay: 98.077 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

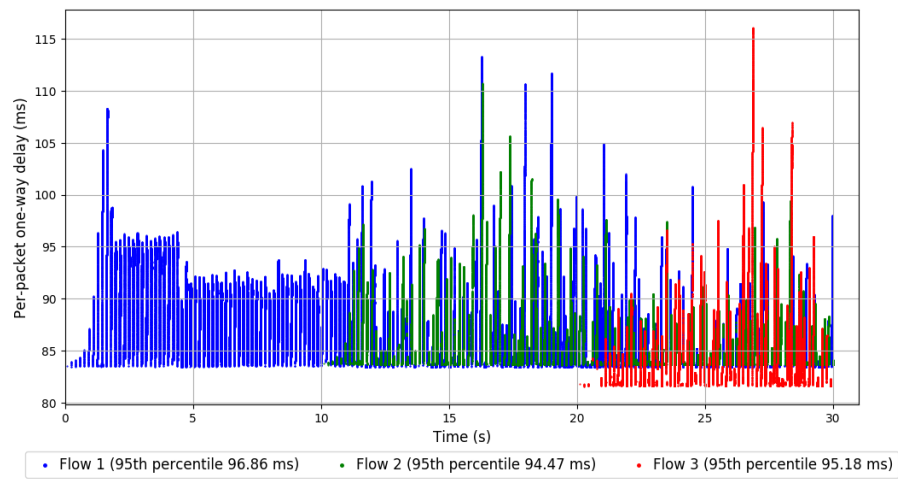
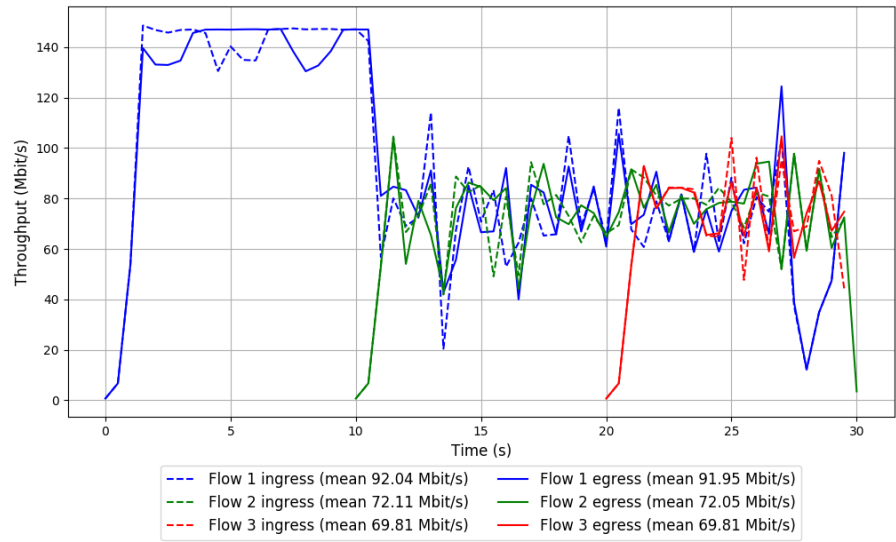


Run 9: Statistics of TCP BBR

Start at: 2017-12-06 01:08:30
End at: 2017-12-06 01:09:00
Local clock offset: 0.343 ms
Remote clock offset: -3.248 ms

Below is generated by plot.py at 2017-12-06 02:42:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 95.842 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 91.95 Mbit/s
95th percentile per-packet one-way delay: 96.863 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 94.468 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 69.81 Mbit/s
95th percentile per-packet one-way delay: 95.178 ms
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

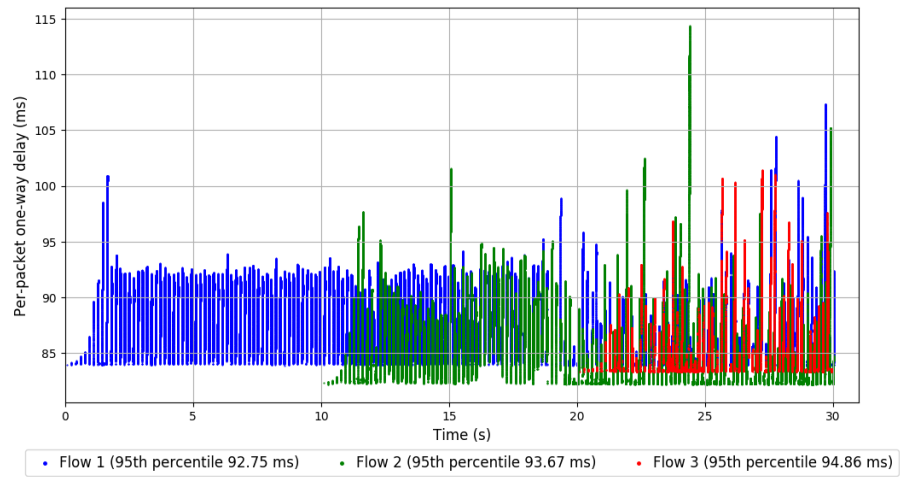
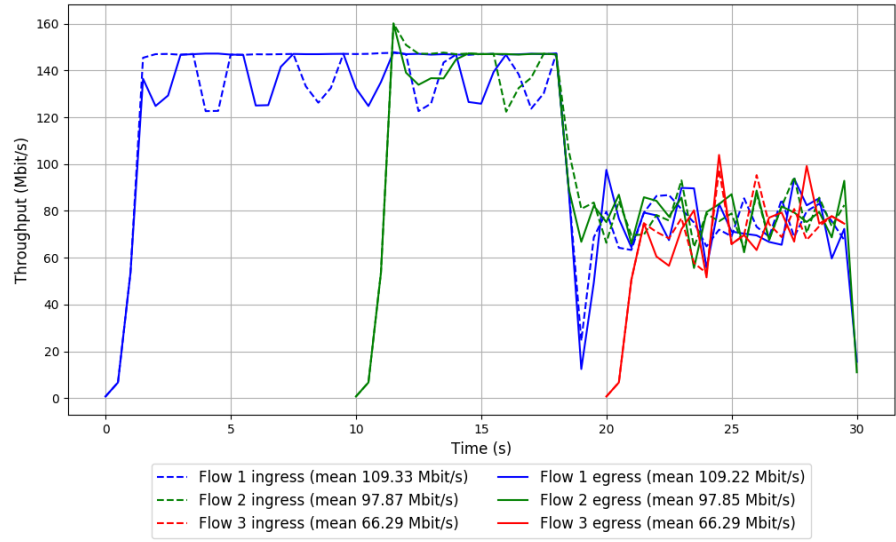


Run 10: Statistics of TCP BBR

Start at: 2017-12-06 01:28:18
End at: 2017-12-06 01:28:48
Local clock offset: 0.628 ms
Remote clock offset: -3.056 ms

Below is generated by plot.py at 2017-12-06 02:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 196.08 Mbit/s
95th percentile per-packet one-way delay: 93.119 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 109.22 Mbit/s
95th percentile per-packet one-way delay: 92.751 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 97.85 Mbit/s
95th percentile per-packet one-way delay: 93.675 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.29 Mbit/s
95th percentile per-packet one-way delay: 94.861 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 22:27:47

End at: 2017-12-05 22:28:17

Local clock offset: -1.999 ms

Remote clock offset: 1.788 ms

Below is generated by plot.py at 2017-12-06 02:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.17 Mbit/s

95th percentile per-packet one-way delay: 115.233 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 115.744 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 88.598 ms

Loss rate: 0.01%

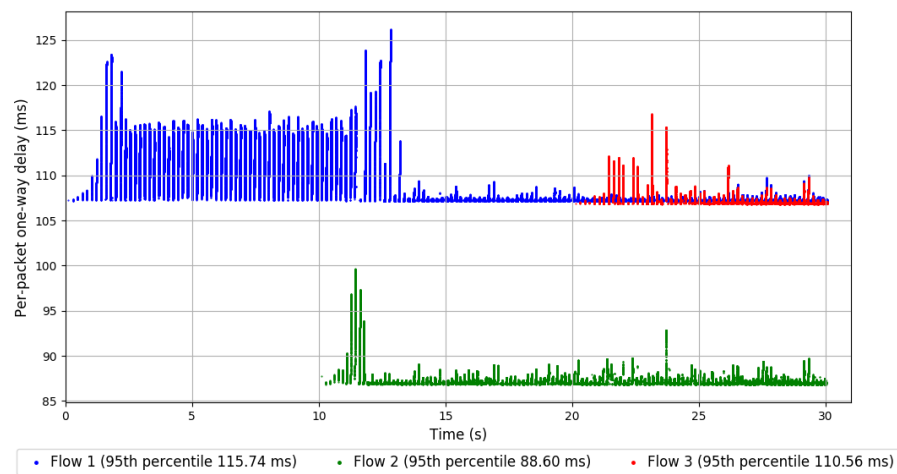
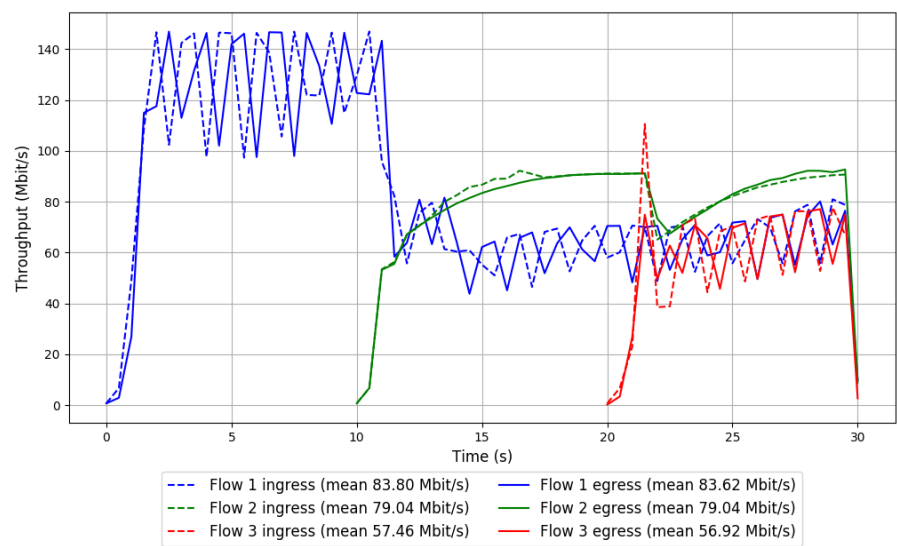
-- Flow 3:

Average throughput: 56.92 Mbit/s

95th percentile per-packet one-way delay: 110.560 ms

Loss rate: 1.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 22:47:46

End at: 2017-12-05 22:48:16

Local clock offset: -2.751 ms

Remote clock offset: 1.073 ms

Below is generated by plot.py at 2017-12-06 02:43:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.58 Mbit/s

95th percentile per-packet one-way delay: 114.734 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.46 Mbit/s

95th percentile per-packet one-way delay: 113.418 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.21 Mbit/s

95th percentile per-packet one-way delay: 116.371 ms

Loss rate: 0.00%

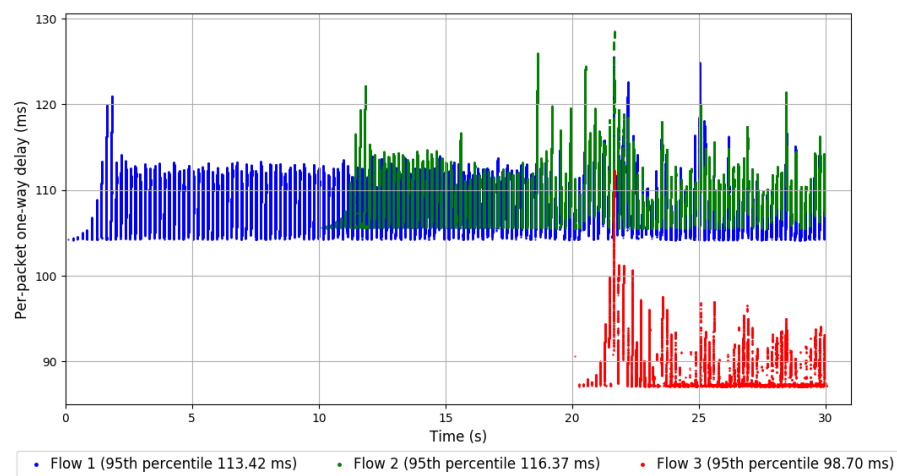
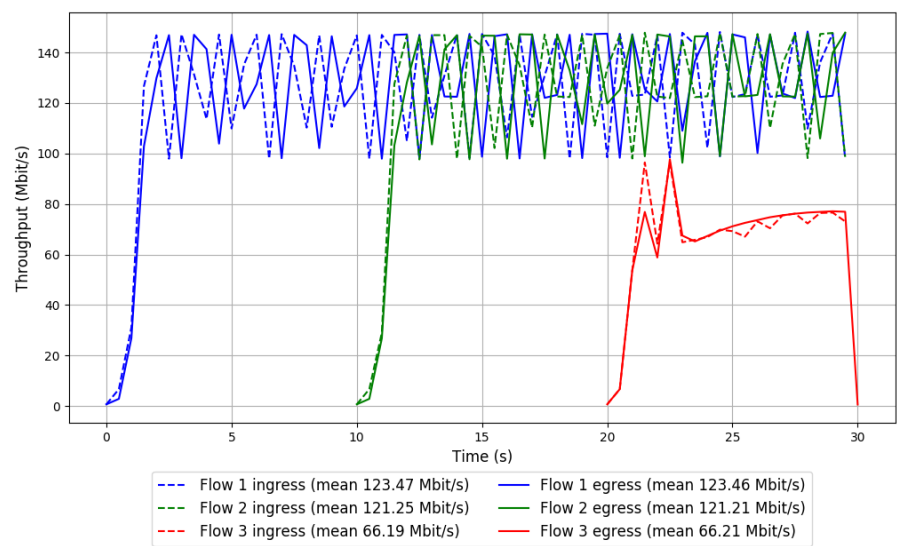
-- Flow 3:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 98.699 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 23:07:52

End at: 2017-12-05 23:08:22

Local clock offset: -2.8 ms

Remote clock offset: -2.29 ms

Below is generated by plot.py at 2017-12-06 02:43:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.40 Mbit/s

95th percentile per-packet one-way delay: 109.702 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 112.747 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 94.62 Mbit/s

95th percentile per-packet one-way delay: 92.353 ms

Loss rate: 0.03%

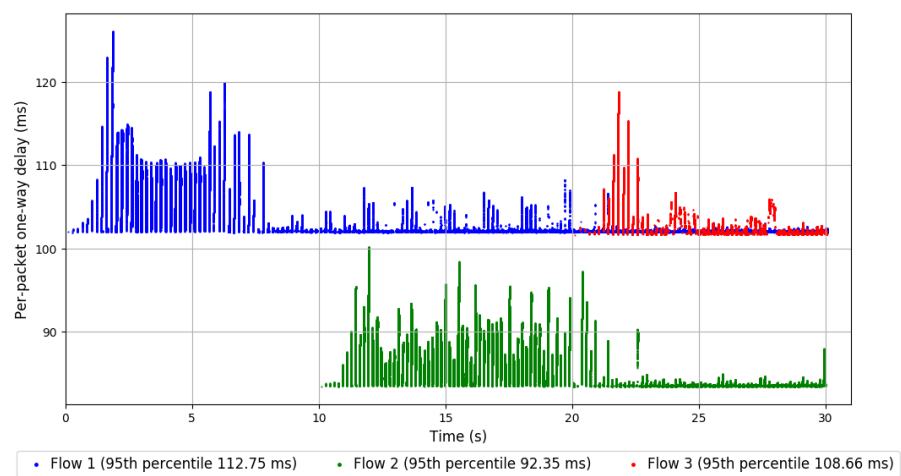
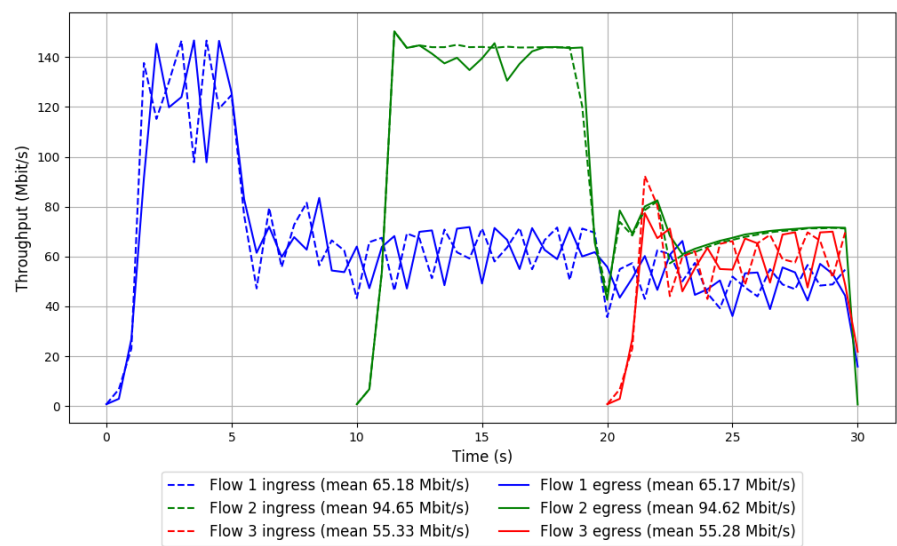
-- Flow 3:

Average throughput: 55.28 Mbit/s

95th percentile per-packet one-way delay: 108.664 ms

Loss rate: 0.09%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 23:28:25

End at: 2017-12-05 23:28:55

Local clock offset: -2.098 ms

Remote clock offset: 1.81 ms

Below is generated by plot.py at 2017-12-06 02:44:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 253.47 Mbit/s

95th percentile per-packet one-way delay: 116.337 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.29 Mbit/s

95th percentile per-packet one-way delay: 97.197 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.99 Mbit/s

95th percentile per-packet one-way delay: 118.198 ms

Loss rate: 0.00%

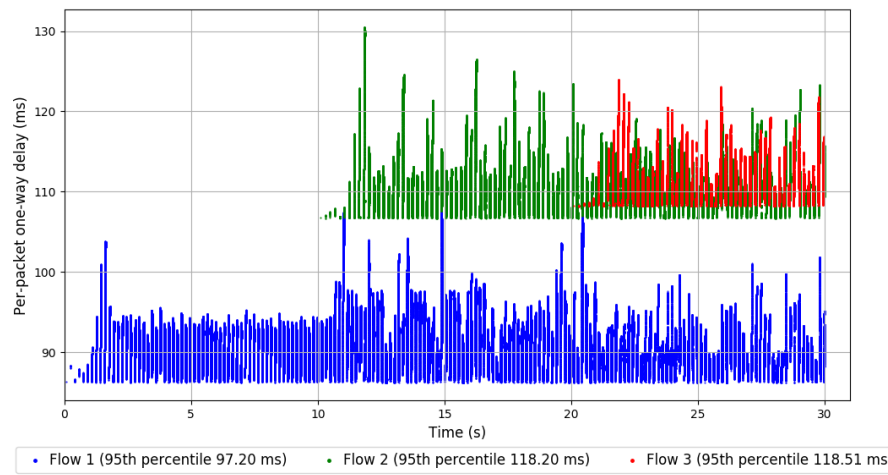
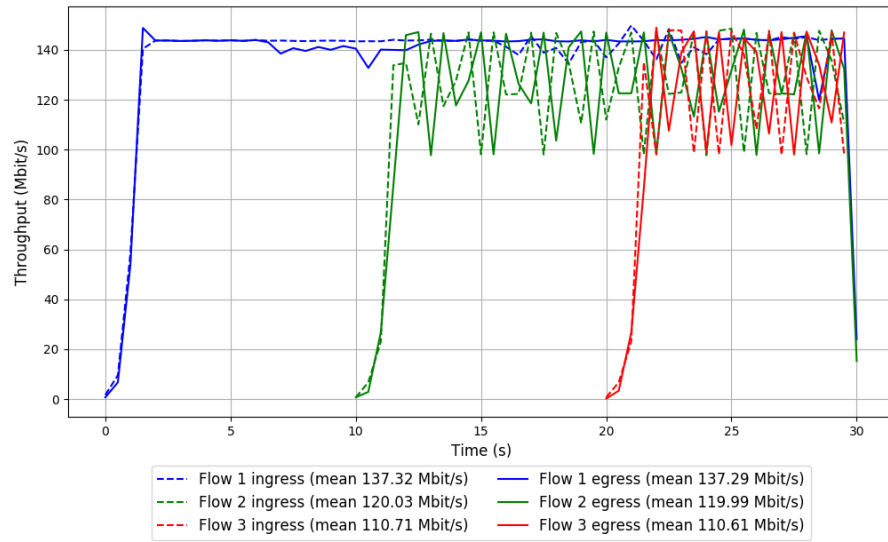
-- Flow 3:

Average throughput: 110.61 Mbit/s

95th percentile per-packet one-way delay: 118.508 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

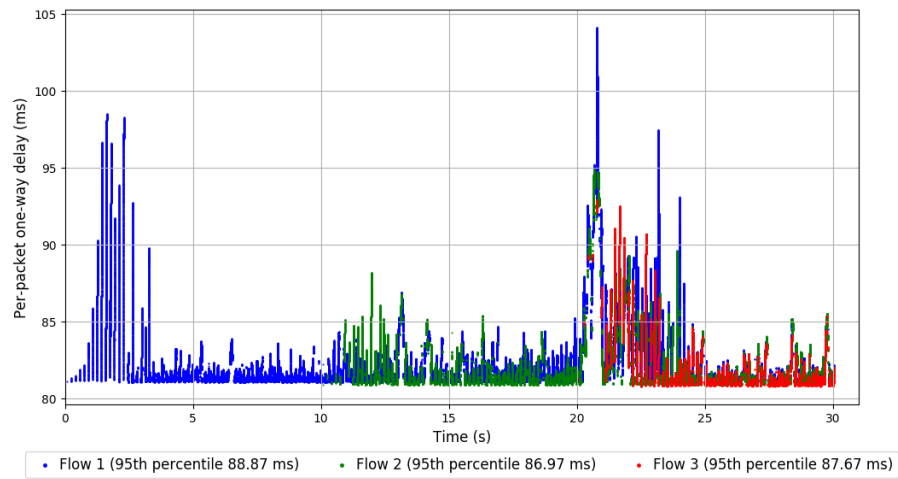
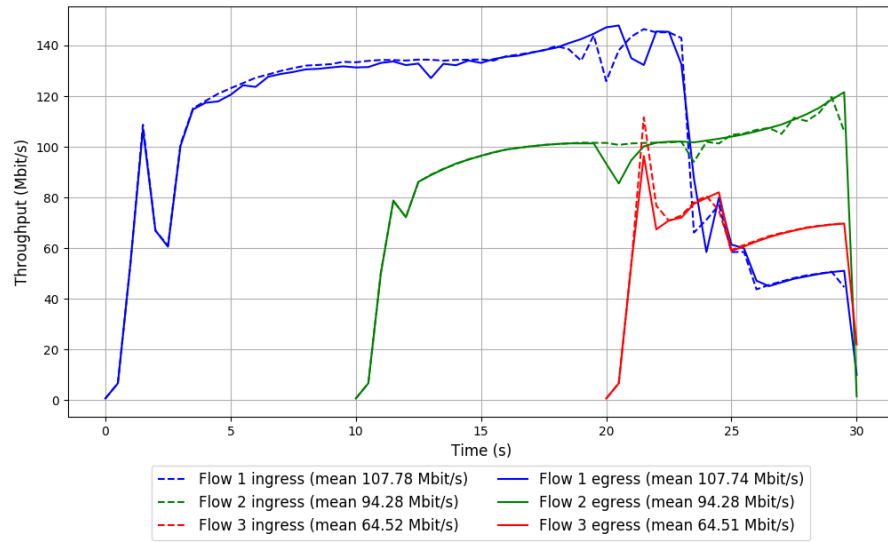


Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 23:48:46
End at: 2017-12-05 23:49:16
Local clock offset: -1.592 ms
Remote clock offset: -4.037 ms

Below is generated by plot.py at 2017-12-06 02:44:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.92 Mbit/s
95th percentile per-packet one-way delay: 87.975 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 107.74 Mbit/s
95th percentile per-packet one-way delay: 88.873 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 86.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 87.672 ms
Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 00:09:16

End at: 2017-12-06 00:09:46

Local clock offset: -1.068 ms

Remote clock offset: -4.47 ms

Below is generated by plot.py at 2017-12-06 02:44:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.87 Mbit/s

95th percentile per-packet one-way delay: 90.346 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 128.12 Mbit/s

95th percentile per-packet one-way delay: 89.095 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 91.200 ms

Loss rate: 0.00%

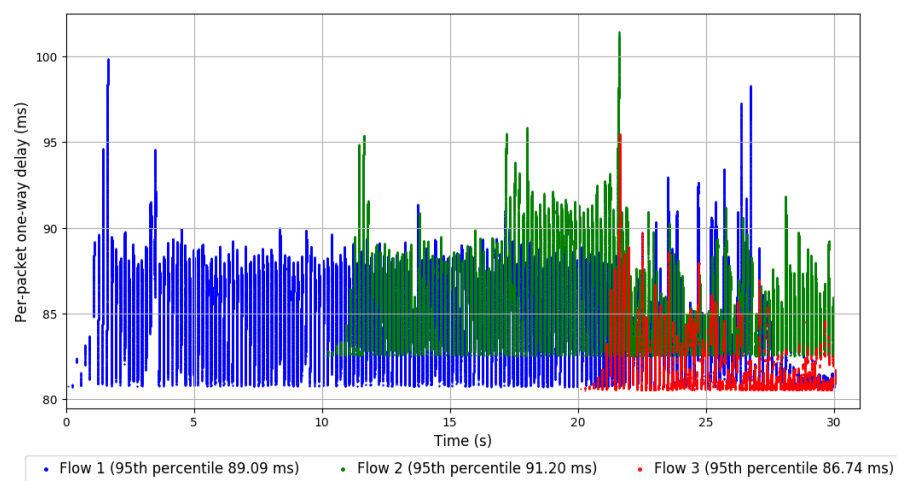
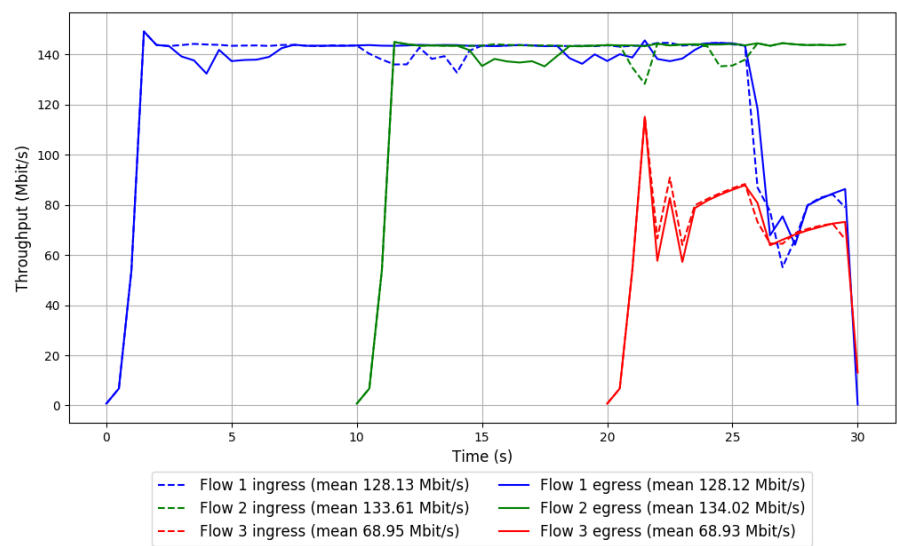
-- Flow 3:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 86.740 ms

Loss rate: 0.03%

Run 6: Report of TCP Cubic — Data Link

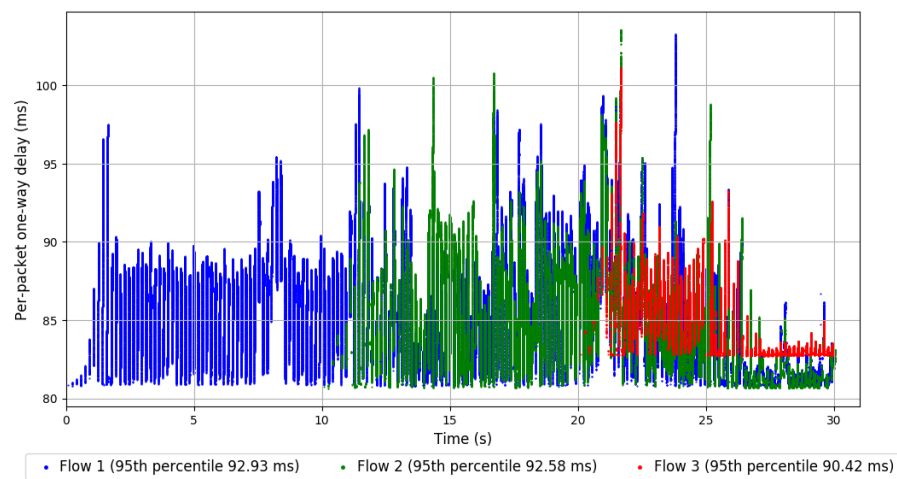
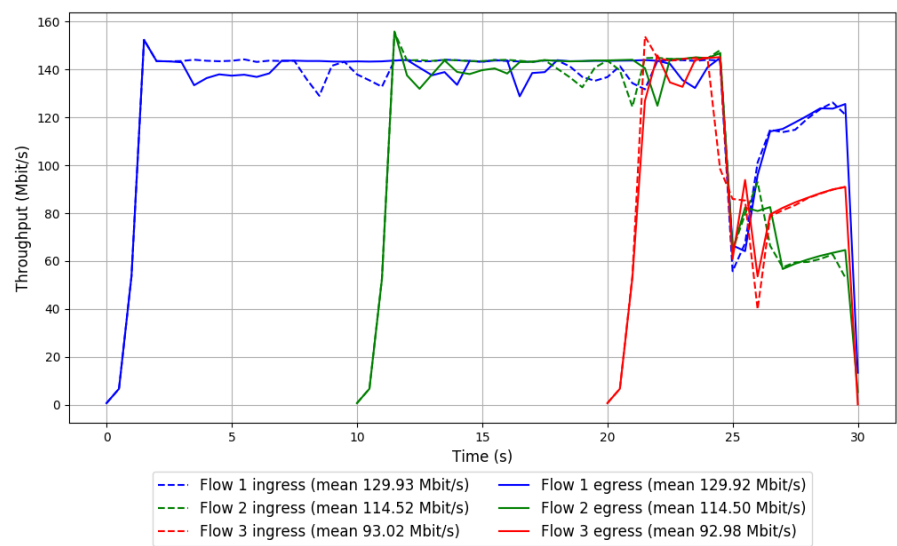


Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 00:29:33
End at: 2017-12-06 00:30:03
Local clock offset: -0.635 ms
Remote clock offset: -4.208 ms

Below is generated by plot.py at 2017-12-06 02:45:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.82 Mbit/s
95th percentile per-packet one-way delay: 92.660 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 129.92 Mbit/s
95th percentile per-packet one-way delay: 92.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.50 Mbit/s
95th percentile per-packet one-way delay: 92.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 90.420 ms
Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link

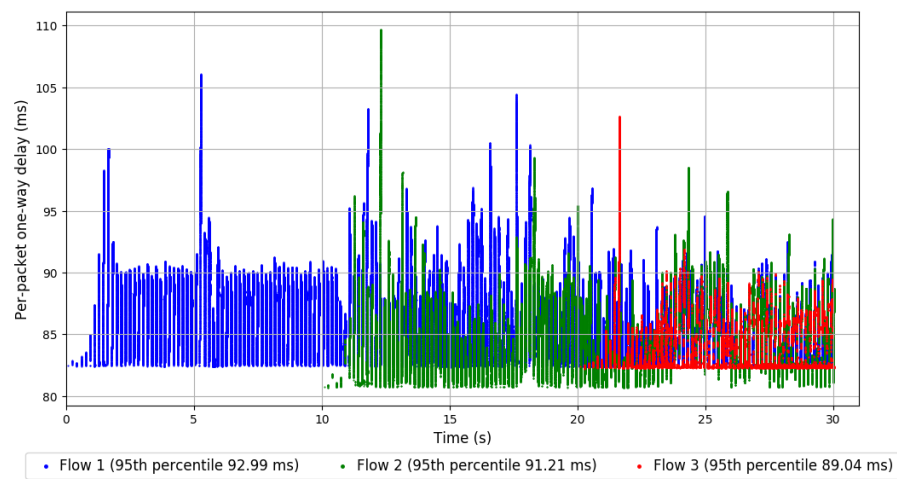
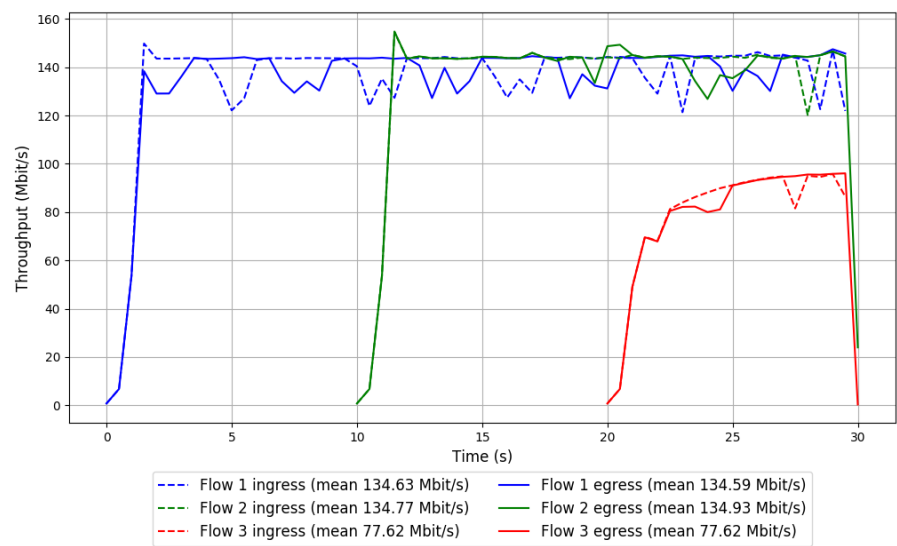


Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 00:49:45
End at: 2017-12-06 00:50:15
Local clock offset: -0.112 ms
Remote clock offset: -4.283 ms

```
# Below is generated by plot.py at 2017-12-06 02:45:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.78 Mbit/s
95th percentile per-packet one-way delay: 92.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.59 Mbit/s
95th percentile per-packet one-way delay: 92.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.93 Mbit/s
95th percentile per-packet one-way delay: 91.210 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.62 Mbit/s
95th percentile per-packet one-way delay: 89.036 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 01:09:56

End at: 2017-12-06 01:10:26

Local clock offset: 0.317 ms

Remote clock offset: 1.314 ms

Below is generated by plot.py at 2017-12-06 02:46:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.90 Mbit/s

95th percentile per-packet one-way delay: 98.195 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 135.61 Mbit/s

95th percentile per-packet one-way delay: 97.057 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.02 Mbit/s

95th percentile per-packet one-way delay: 98.272 ms

Loss rate: 0.01%

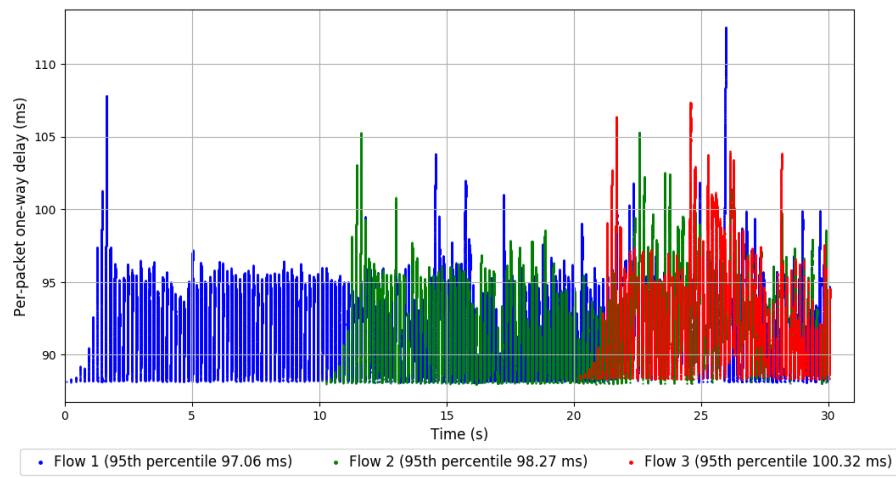
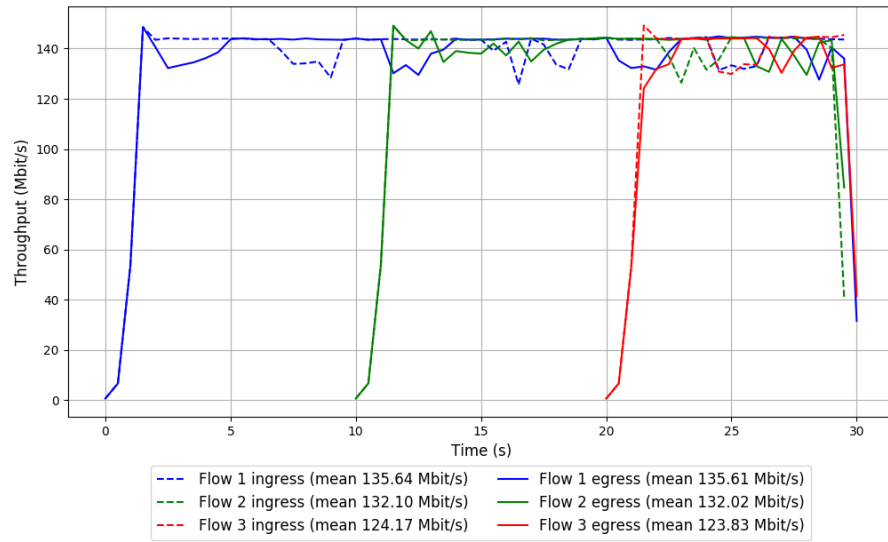
-- Flow 3:

Average throughput: 123.83 Mbit/s

95th percentile per-packet one-way delay: 100.319 ms

Loss rate: 0.26%

Run 9: Report of TCP Cubic — Data Link

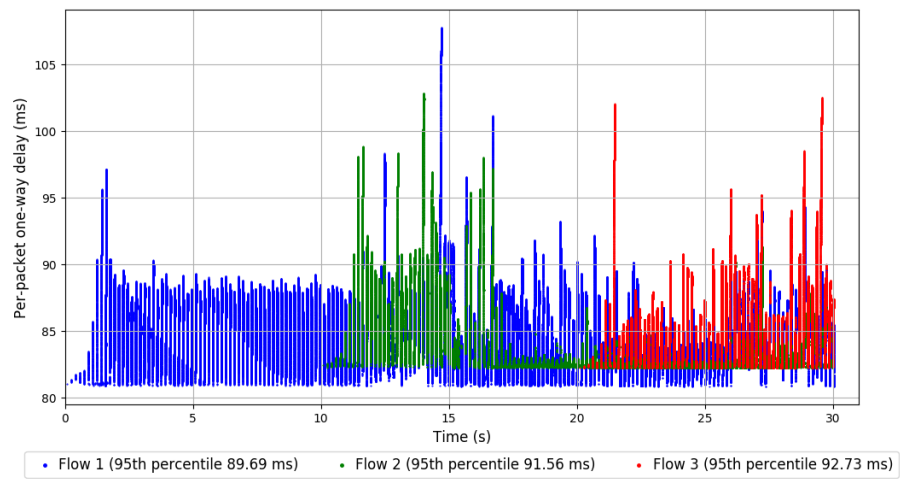
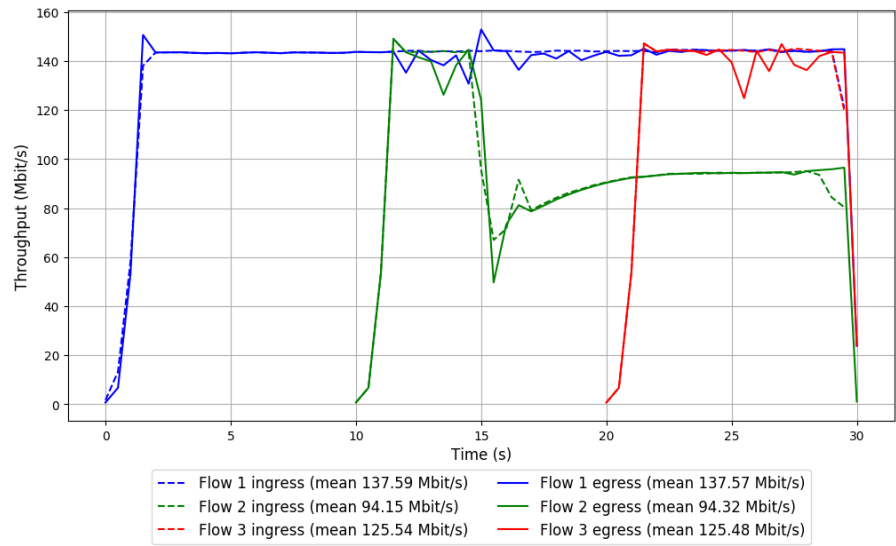


Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 01:29:44
End at: 2017-12-06 01:30:14
Local clock offset: 0.632 ms
Remote clock offset: -4.089 ms

Below is generated by plot.py at 2017-12-06 02:46:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.86 Mbit/s
95th percentile per-packet one-way delay: 90.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.57 Mbit/s
95th percentile per-packet one-way delay: 89.694 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 91.557 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.48 Mbit/s
95th percentile per-packet one-way delay: 92.727 ms
Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

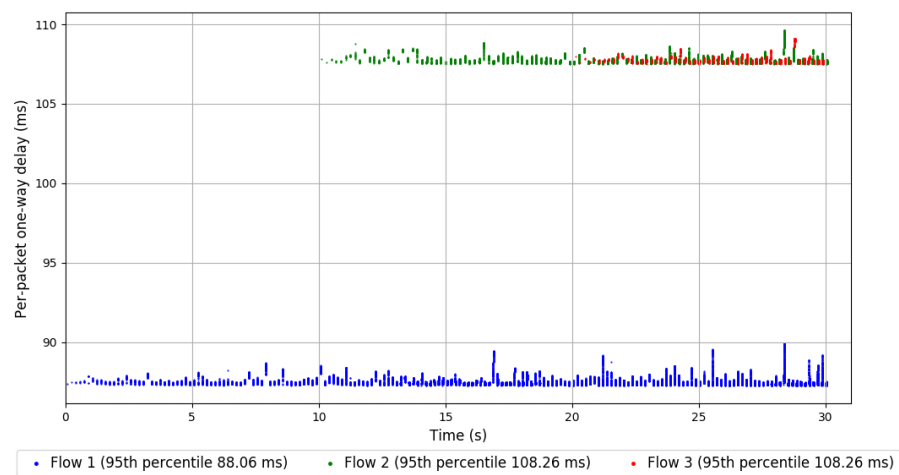
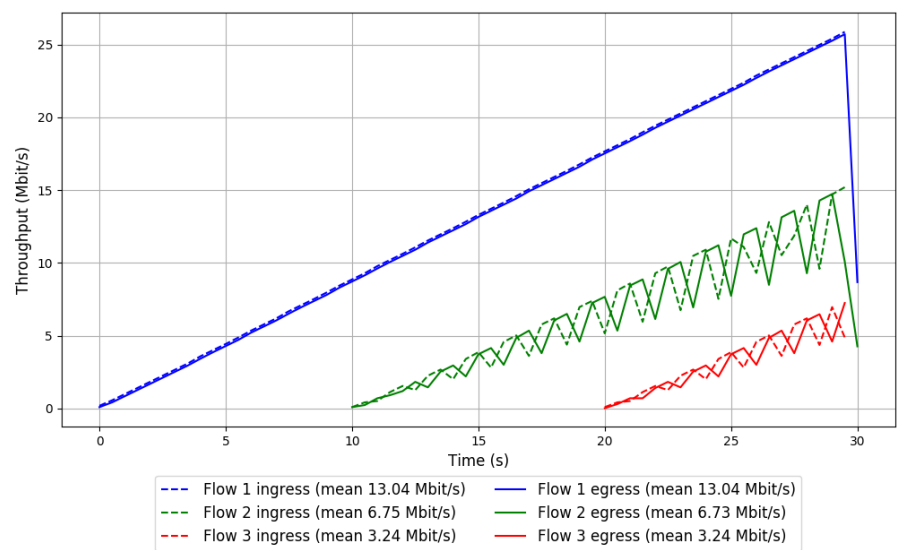


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 22:22:11
End at: 2017-12-05 22:22:41
Local clock offset: -1.807 ms
Remote clock offset: 2.195 ms

# Below is generated by plot.py at 2017-12-06 02:46:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.57 Mbit/s
95th percentile per-packet one-way delay: 107.908 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 88.055 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 108.261 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 108.264 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

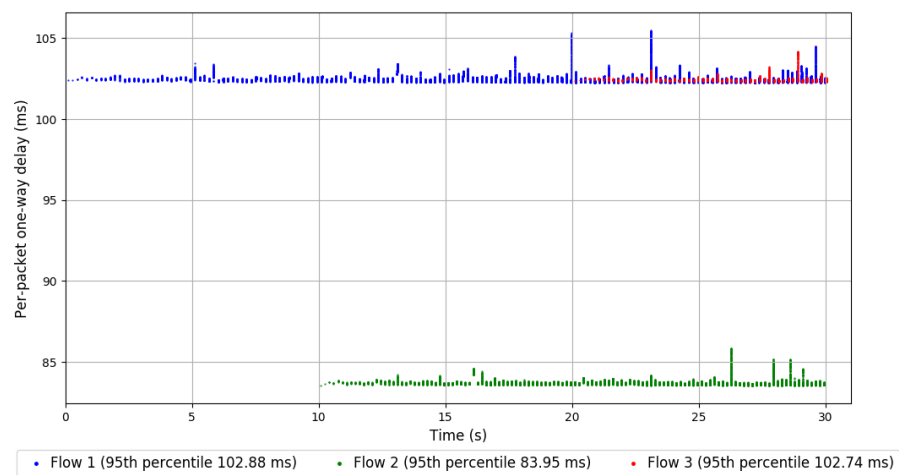
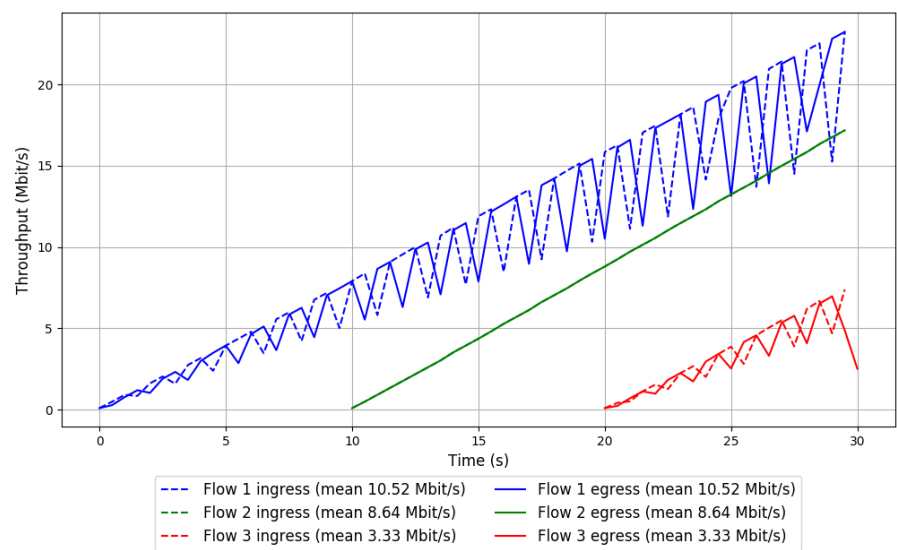


Run 2: Statistics of LEDBAT

Start at: 2017-12-05 22:42:11
End at: 2017-12-05 22:42:41
Local clock offset: -2.599 ms
Remote clock offset: -2.729 ms

Below is generated by plot.py at 2017-12-06 02:46:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 102.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 102.880 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 83.955 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 102.737 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

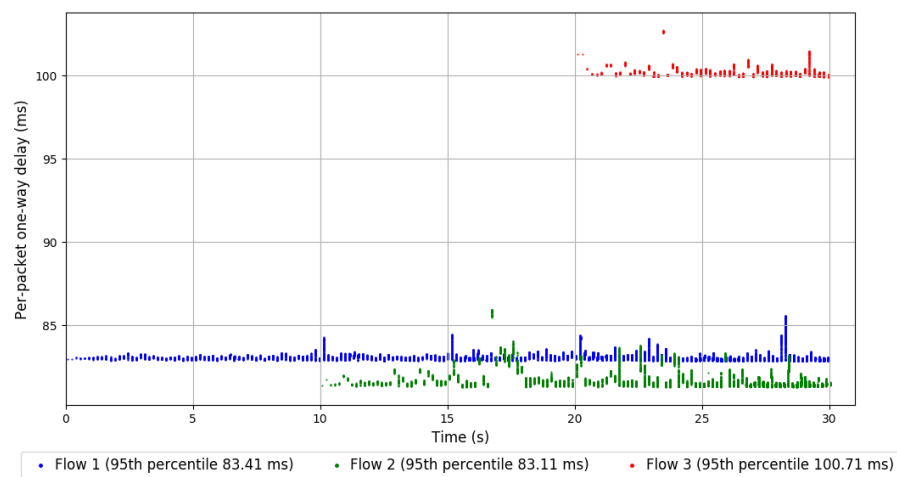
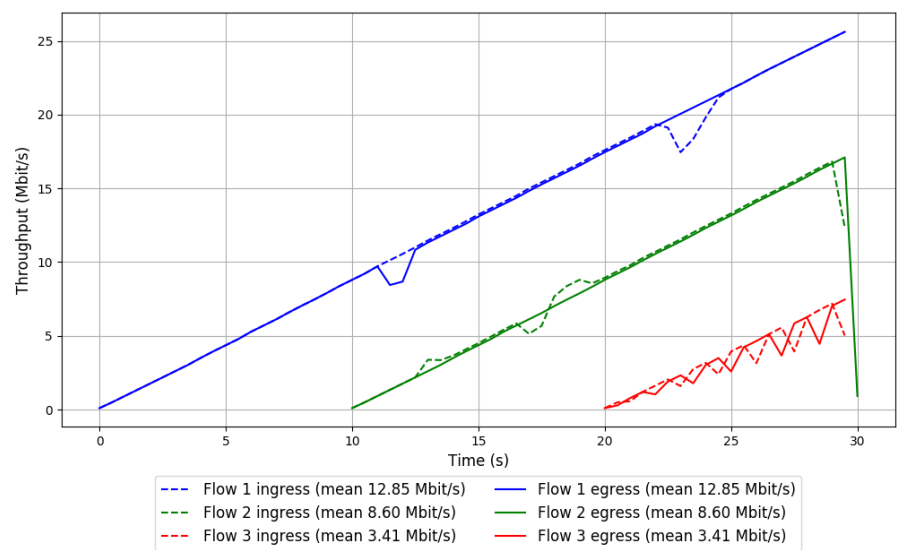


Run 3: Statistics of LEDBAT

Start at: 2017-12-05 23:02:17
End at: 2017-12-05 23:02:47
Local clock offset: -2.974 ms
Remote clock offset: -2.621 ms

Below is generated by plot.py at 2017-12-06 02:46:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 99.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 83.408 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 83.112 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 100.707 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-05 23:22:35

End at: 2017-12-05 23:23:05

Local clock offset: -2.271 ms

Remote clock offset: 2.974 ms

Below is generated by plot.py at 2017-12-06 02:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.78 Mbit/s

95th percentile per-packet one-way delay: 106.038 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 89.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 90.123 ms

Loss rate: 0.00%

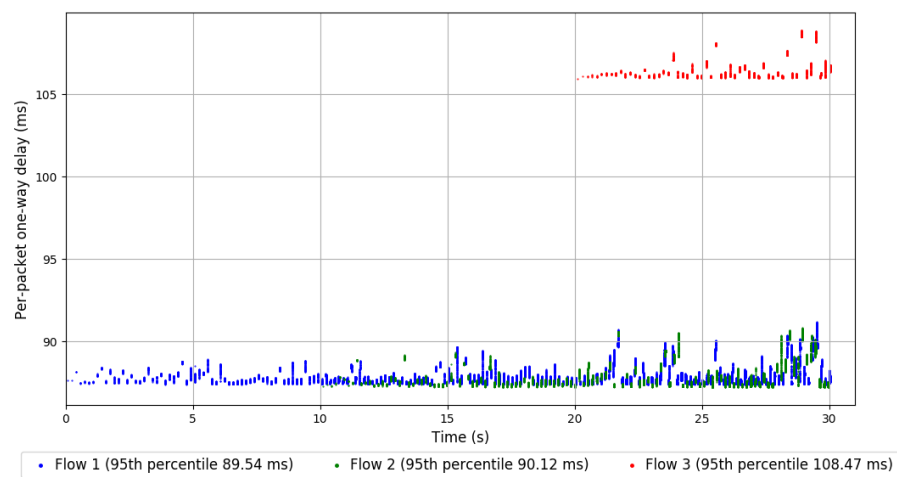
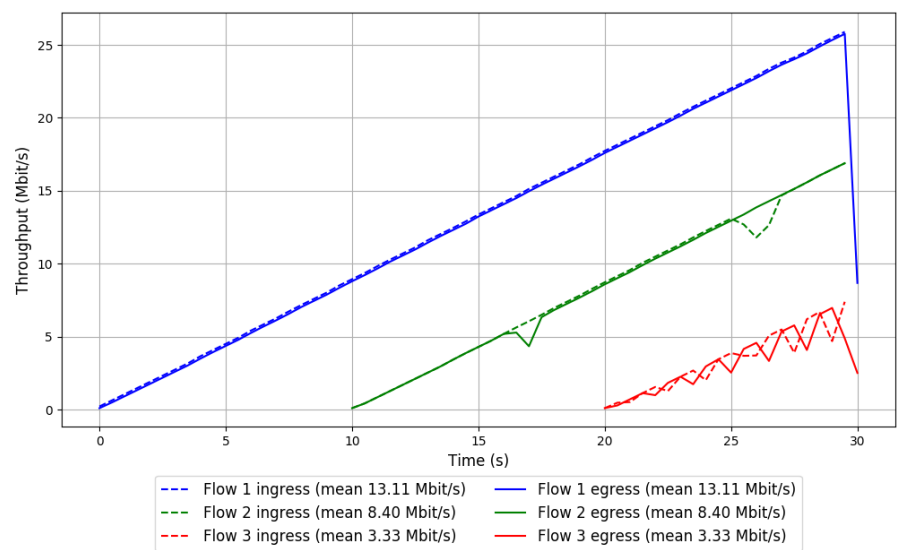
-- Flow 3:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 108.467 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-05 23:43:20

End at: 2017-12-05 23:43:50

Local clock offset: -1.694 ms

Remote clock offset: 1.594 ms

Below is generated by plot.py at 2017-12-06 02:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 91.041 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 189.848 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 91.390 ms

Loss rate: 0.00%

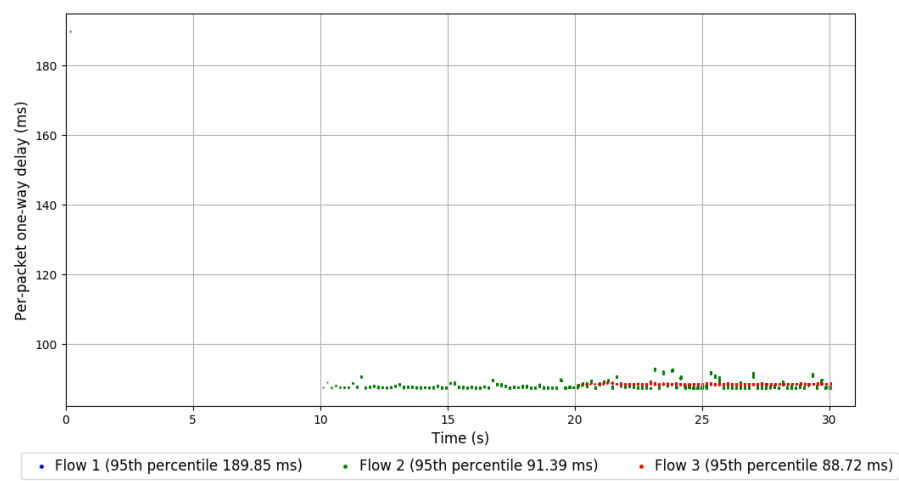
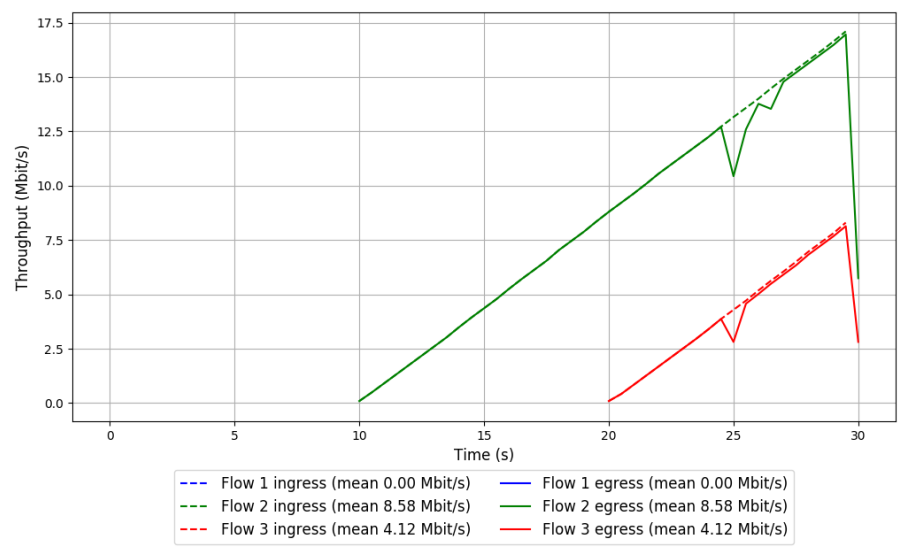
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 88.723 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-06 00:03:33

End at: 2017-12-06 00:04:03

Local clock offset: -1.125 ms

Remote clock offset: 1.758 ms

Below is generated by plot.py at 2017-12-06 02:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 104.339 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 104.420 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 104.128 ms

Loss rate: 0.00%

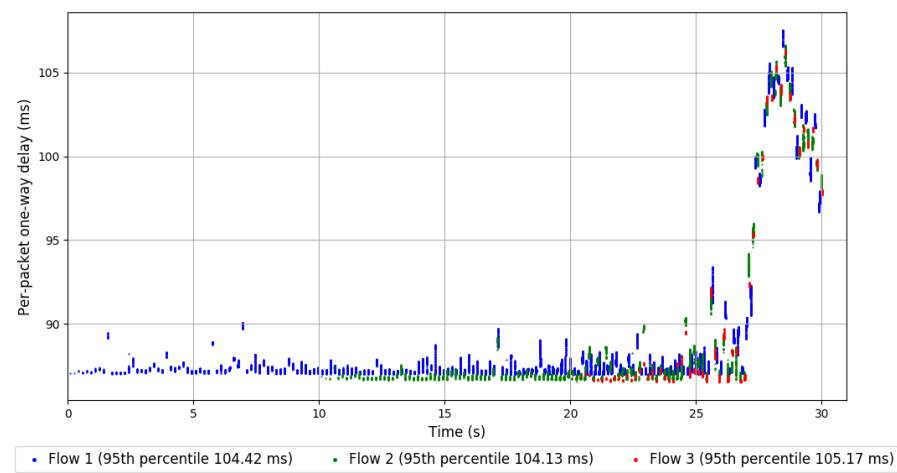
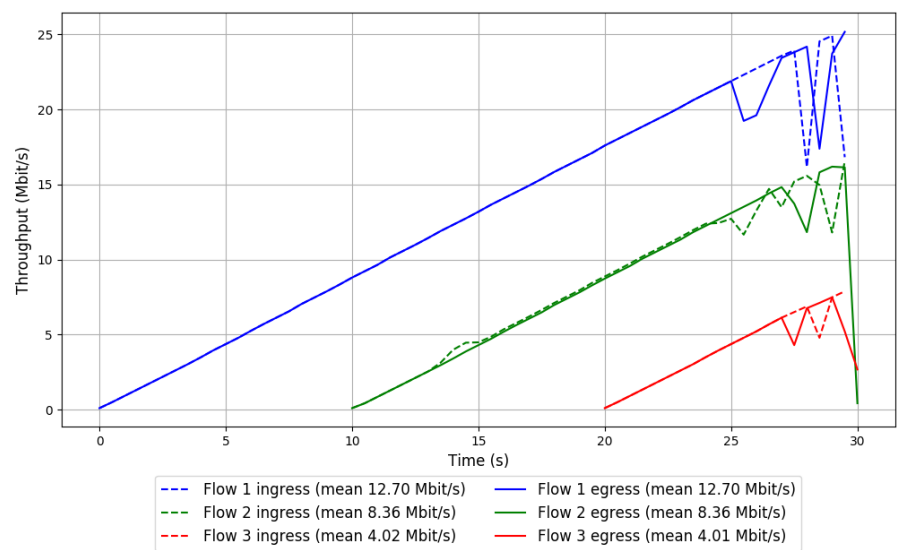
-- Flow 3:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 105.165 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

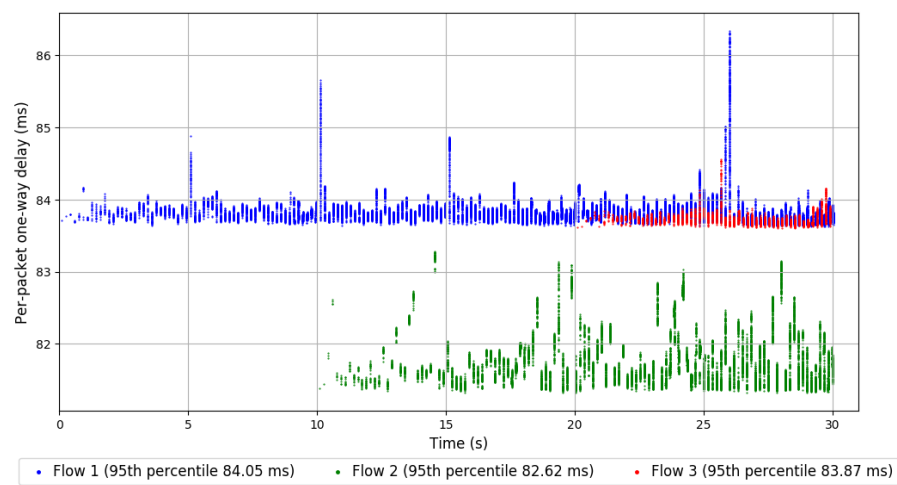
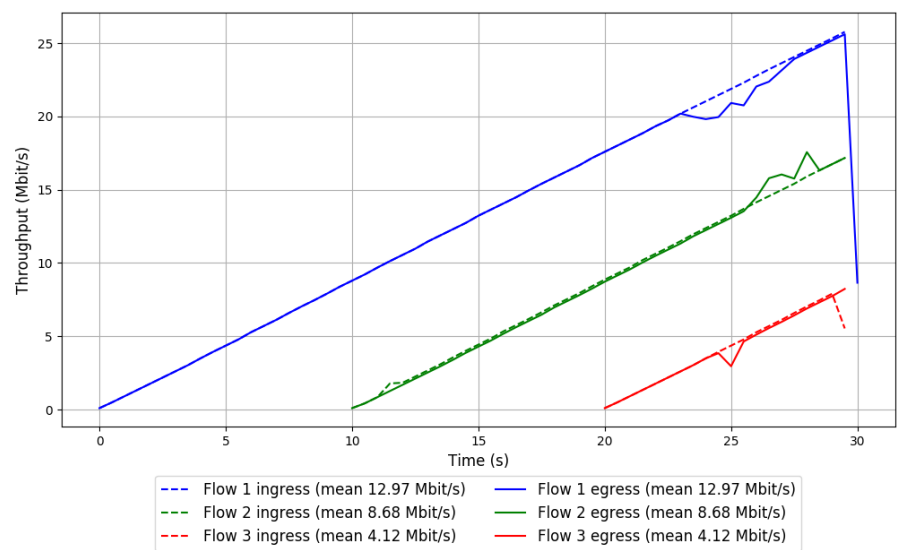


Run 7: Statistics of LEDBAT

Start at: 2017-12-06 00:24:03
End at: 2017-12-06 00:24:33
Local clock offset: -0.765 ms
Remote clock offset: -3.337 ms

Below is generated by plot.py at 2017-12-06 02:46:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.09 Mbit/s
95th percentile per-packet one-way delay: 83.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 84.045 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 82.622 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 83.871 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

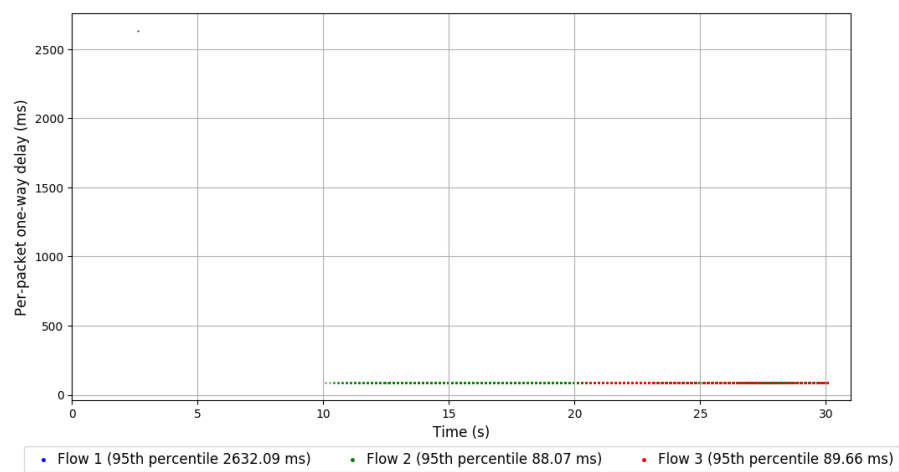
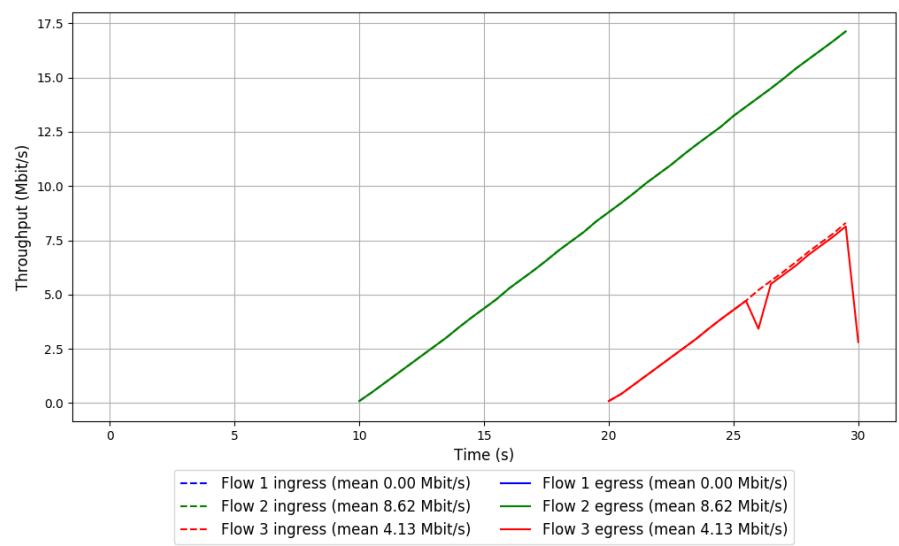


Run 8: Statistics of LEDBAT

Start at: 2017-12-06 00:44:05
End at: 2017-12-06 00:44:35
Local clock offset: -0.223 ms
Remote clock offset: 2.31 ms

Below is generated by plot.py at 2017-12-06 02:46:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 89.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2632.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 88.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 89.657 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-06 01:04:27

End at: 2017-12-06 01:04:57

Local clock offset: 0.262 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2017-12-06 02:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.22 Mbit/s

95th percentile per-packet one-way delay: 87.586 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 86.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 87.758 ms

Loss rate: 0.00%

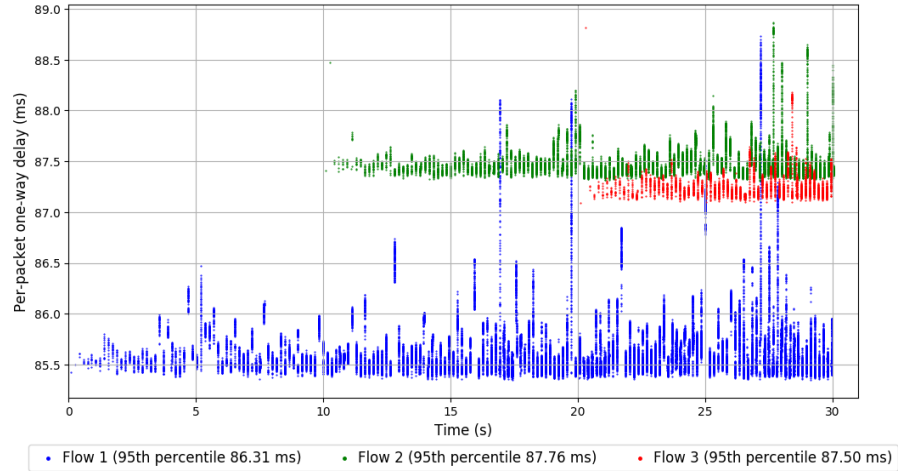
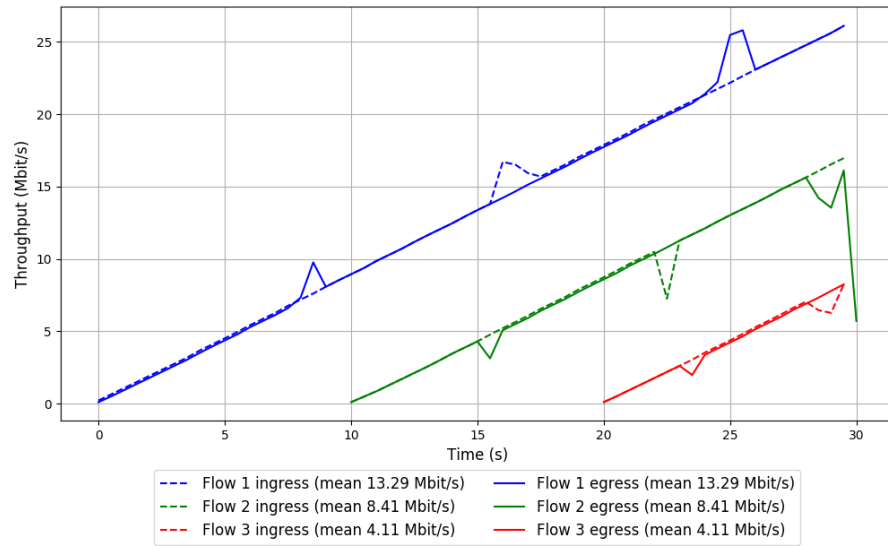
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.495 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-06 01:24:18

End at: 2017-12-06 01:24:48

Local clock offset: 0.518 ms

Remote clock offset: 0.791 ms

Below is generated by plot.py at 2017-12-06 02:46:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 87.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 88.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.84 Mbit/s

95th percentile per-packet one-way delay: 86.161 ms

Loss rate: 0.00%

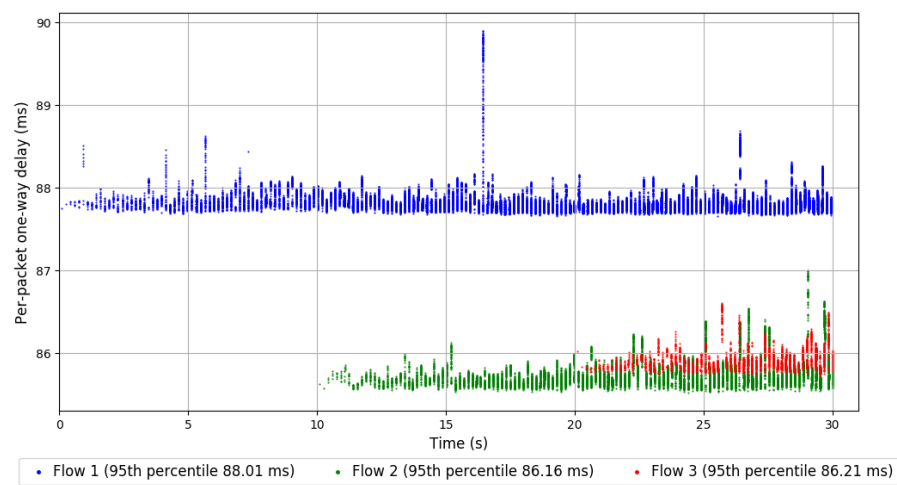
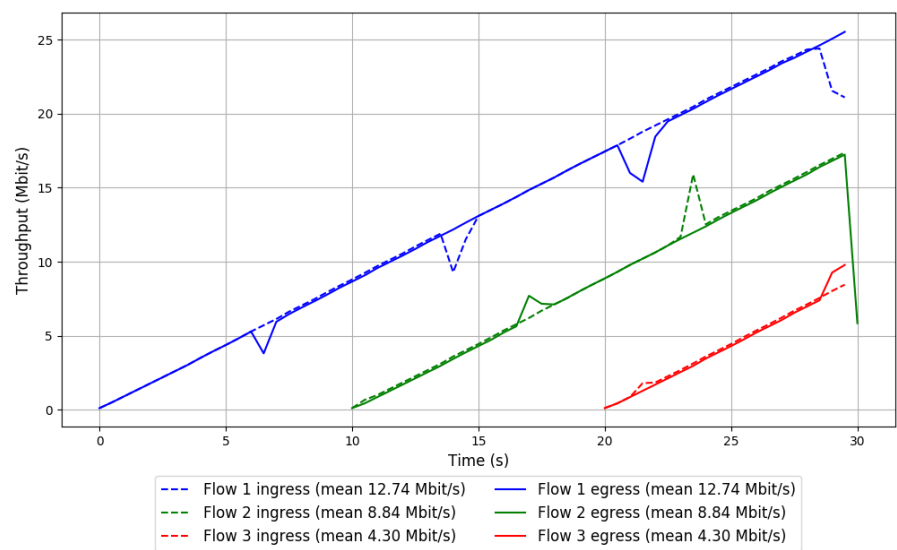
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 86.213 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

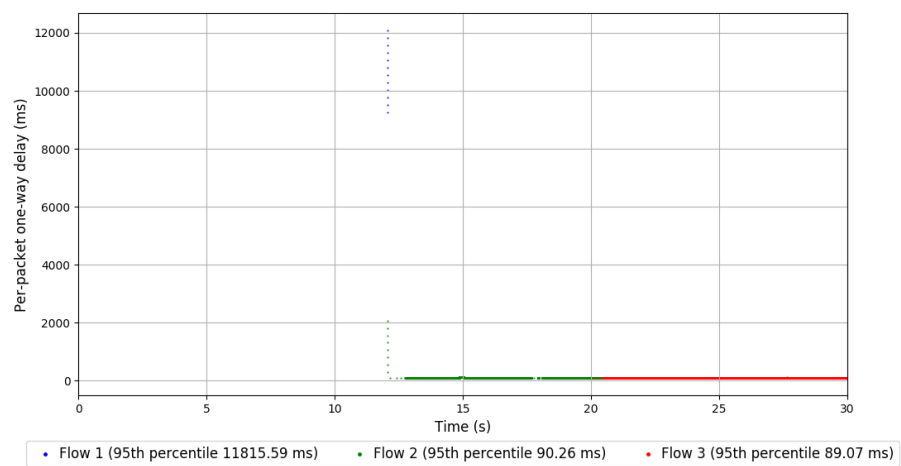
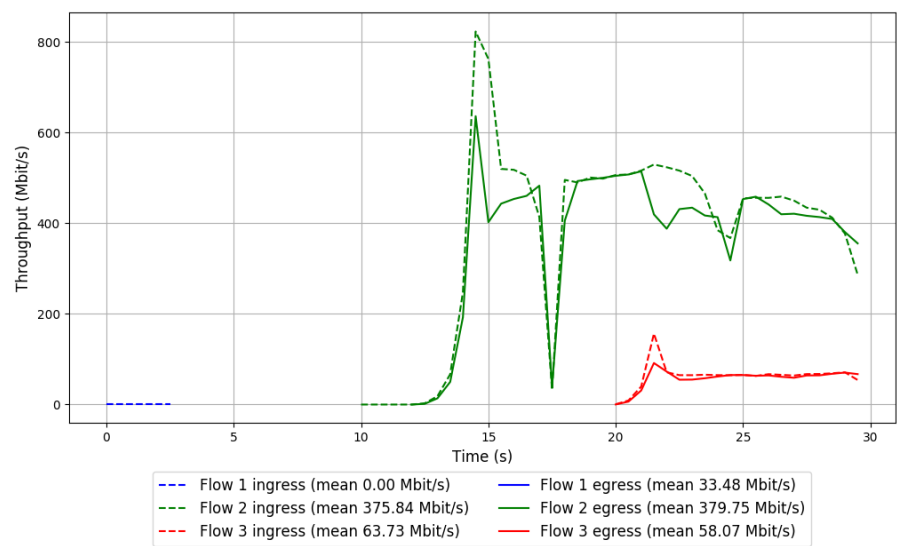
Start at: 2017-12-05 22:29:10

End at: 2017-12-05 22:29:40

Local clock offset: -2.075 ms

Remote clock offset: 2.633 ms

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

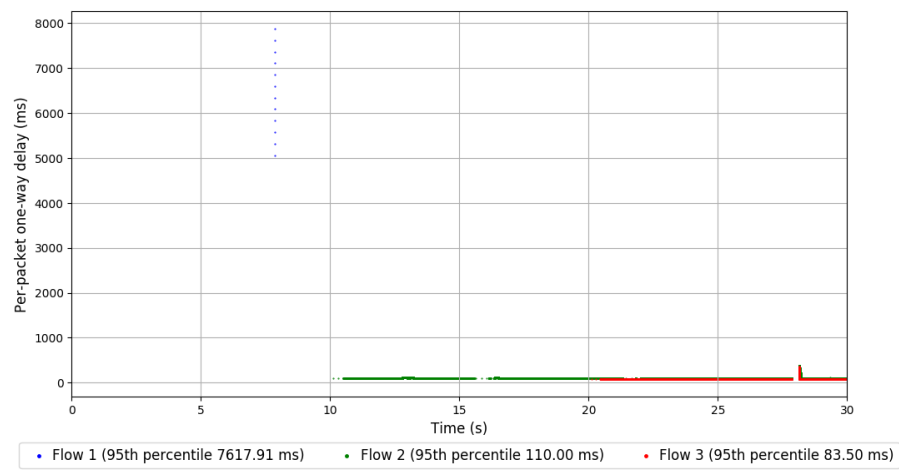
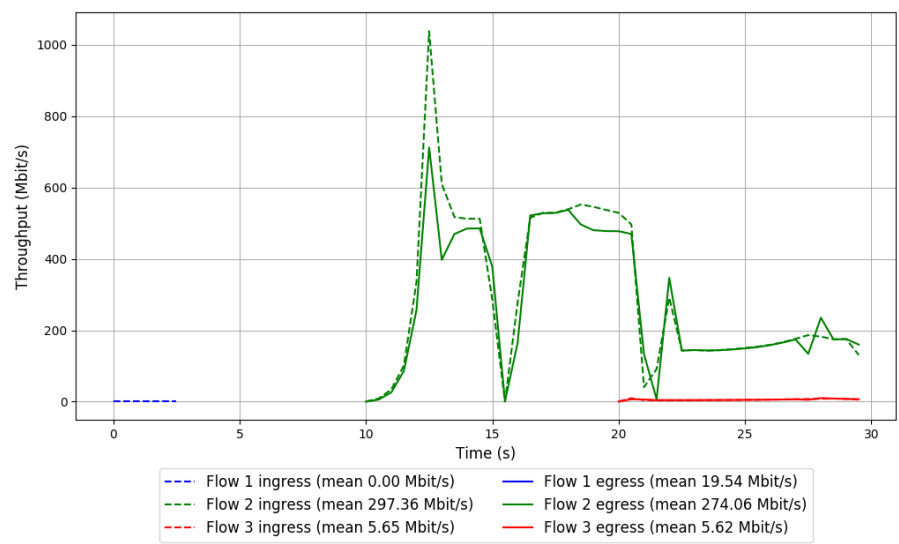
Start at: 2017-12-05 22:49:12

End at: 2017-12-05 22:49:42

Local clock offset: -2.791 ms

Remote clock offset: -2.763 ms

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-05 23:09:16

End at: 2017-12-05 23:09:46

Local clock offset: -2.813 ms

Remote clock offset: 2.472 ms

Below is generated by plot.py at 2017-12-06 02:49:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.21 Mbit/s

95th percentile per-packet one-way delay: 116.165 ms

Loss rate: 18.08%

-- Flow 1:

Average throughput: 134.40 Mbit/s

95th percentile per-packet one-way delay: 115.107 ms

Loss rate: 13.94%

-- Flow 2:

Average throughput: 150.01 Mbit/s

95th percentile per-packet one-way delay: 125.407 ms

Loss rate: 16.85%

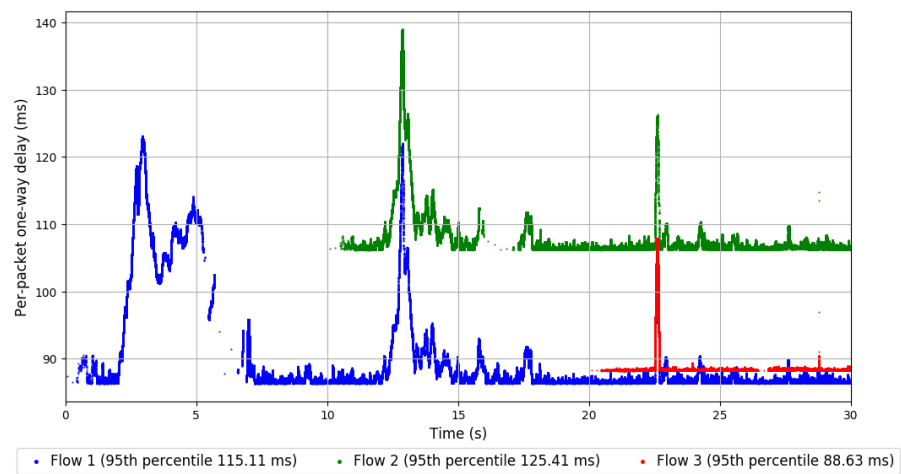
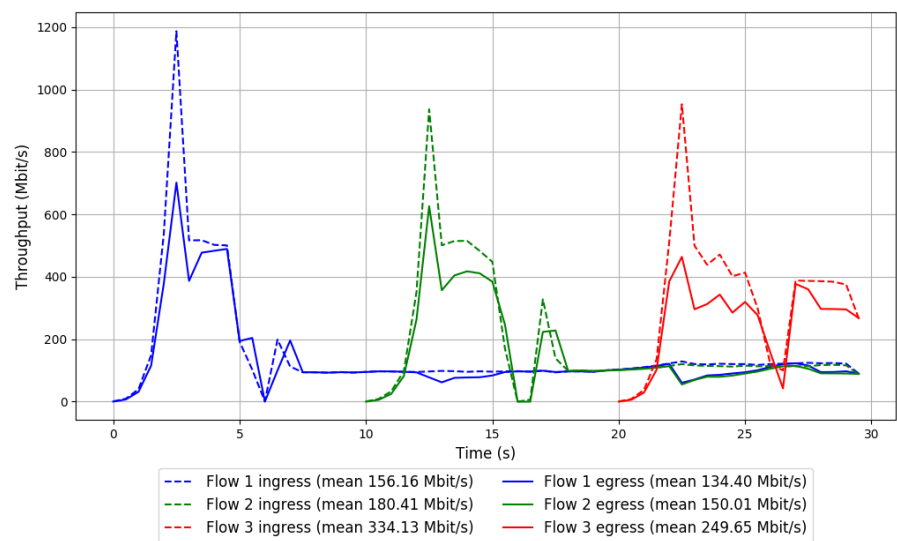
-- Flow 3:

Average throughput: 249.65 Mbit/s

95th percentile per-packet one-way delay: 88.627 ms

Loss rate: 25.29%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

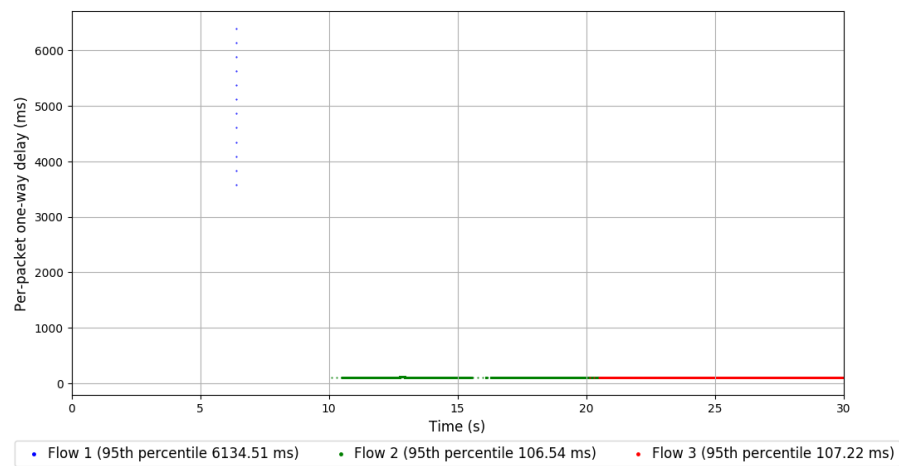
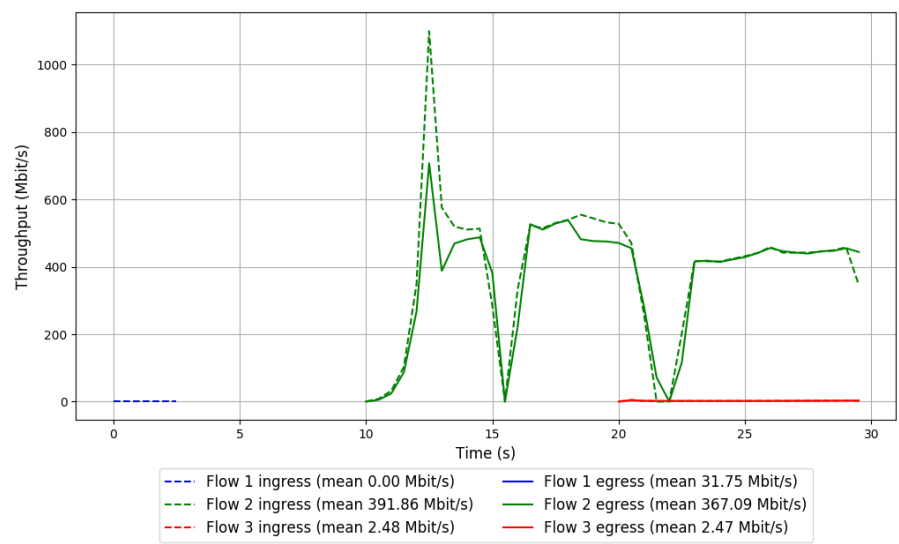
Start at: 2017-12-05 23:29:55

End at: 2017-12-05 23:30:25

Local clock offset: -2.086 ms

Remote clock offset: 1.817 ms

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-05 23:50:11

End at: 2017-12-05 23:50:41

Local clock offset: -1.462 ms

Remote clock offset: 2.356 ms

Below is generated by plot.py at 2017-12-06 02:51:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 394.06 Mbit/s

95th percentile per-packet one-way delay: 99.628 ms

Loss rate: 12.94%

-- Flow 1:

Average throughput: 259.50 Mbit/s

95th percentile per-packet one-way delay: 99.839 ms

Loss rate: 12.79%

-- Flow 2:

Average throughput: 201.42 Mbit/s

95th percentile per-packet one-way delay: 99.233 ms

Loss rate: 13.30%

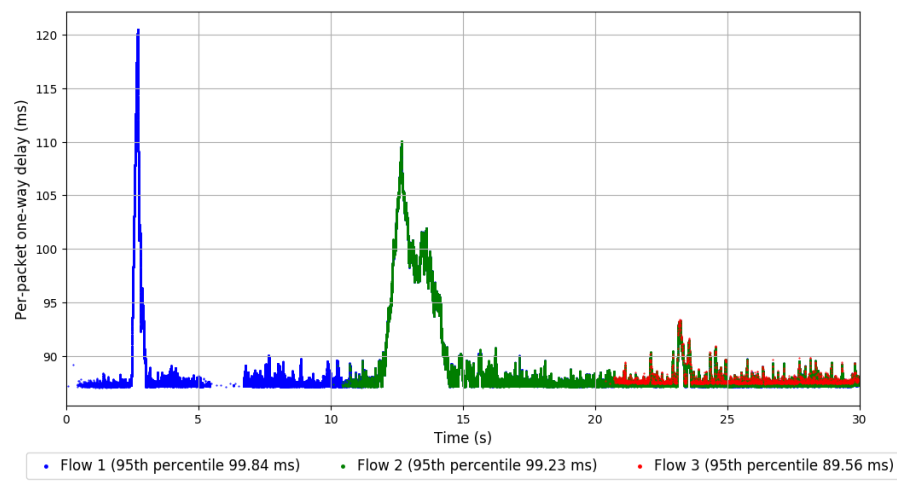
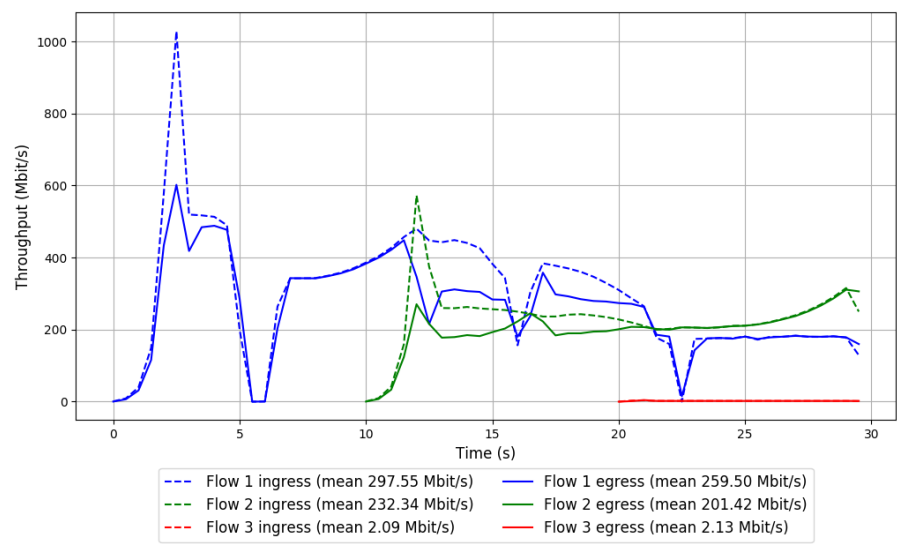
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 89.558 ms

Loss rate: 1.06%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-06 00:10:46

End at: 2017-12-06 00:11:16

Local clock offset: -0.979 ms

Remote clock offset: 1.533 ms

Below is generated by plot.py at 2017-12-06 02:51:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.45 Mbit/s

95th percentile per-packet one-way delay: 89.144 ms

Loss rate: 6.26%

-- Flow 1:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 4117.740 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 413.10 Mbit/s

95th percentile per-packet one-way delay: 89.152 ms

Loss rate: 6.27%

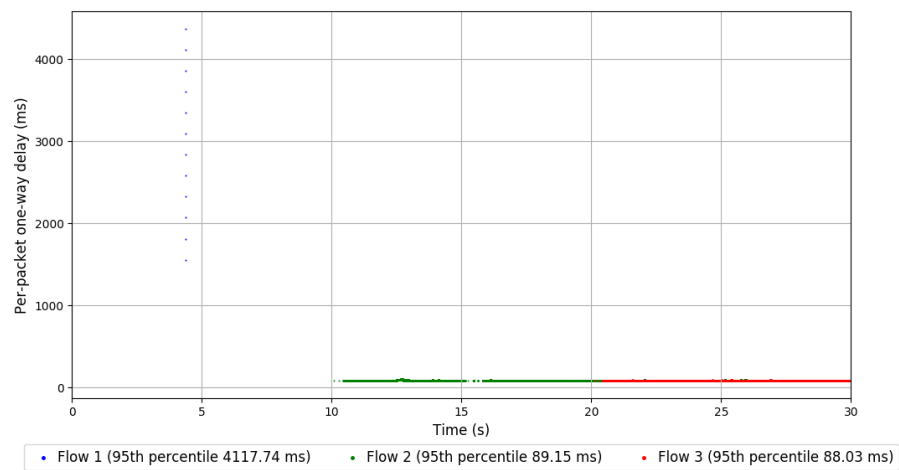
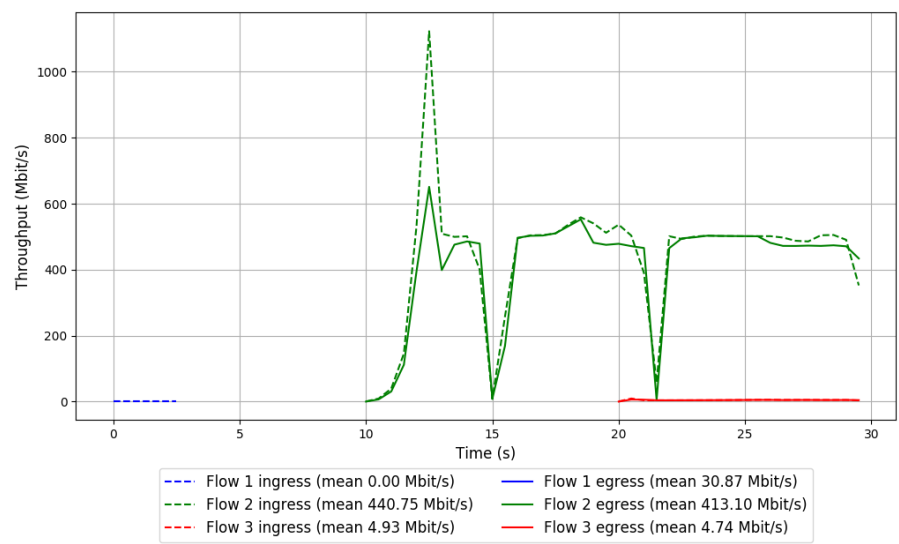
-- Flow 3:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 88.025 ms

Loss rate: 3.77%

Run 6: Report of PCC — Data Link

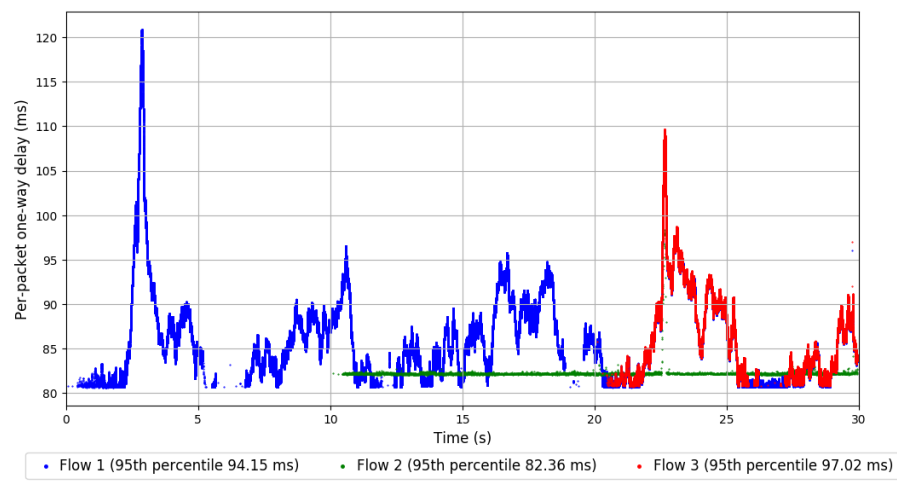
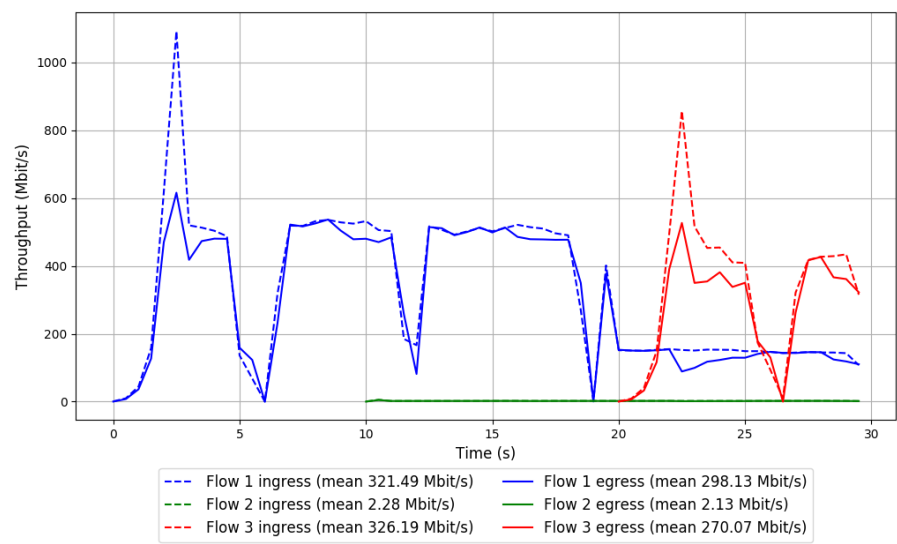


Run 7: Statistics of PCC

Start at: 2017-12-06 00:31:00
End at: 2017-12-06 00:31:30
Local clock offset: -0.609 ms
Remote clock offset: -4.327 ms

Below is generated by plot.py at 2017-12-06 02:51:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 388.45 Mbit/s
95th percentile per-packet one-way delay: 94.741 ms
Loss rate: 9.74%
-- Flow 1:
Average throughput: 298.13 Mbit/s
95th percentile per-packet one-way delay: 94.153 ms
Loss rate: 7.26%
-- Flow 2:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 82.358 ms
Loss rate: 6.69%
-- Flow 3:
Average throughput: 270.07 Mbit/s
95th percentile per-packet one-way delay: 97.021 ms
Loss rate: 17.22%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-06 00:51:12

End at: 2017-12-06 00:51:42

Local clock offset: -0.137 ms

Remote clock offset: 2.131 ms

Below is generated by plot.py at 2017-12-06 02:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.83 Mbit/s

95th percentile per-packet one-way delay: 89.482 ms

Loss rate: 9.25%

-- Flow 1:

Average throughput: 376.66 Mbit/s

95th percentile per-packet one-way delay: 89.516 ms

Loss rate: 8.75%

-- Flow 2:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 88.809 ms

Loss rate: 9.16%

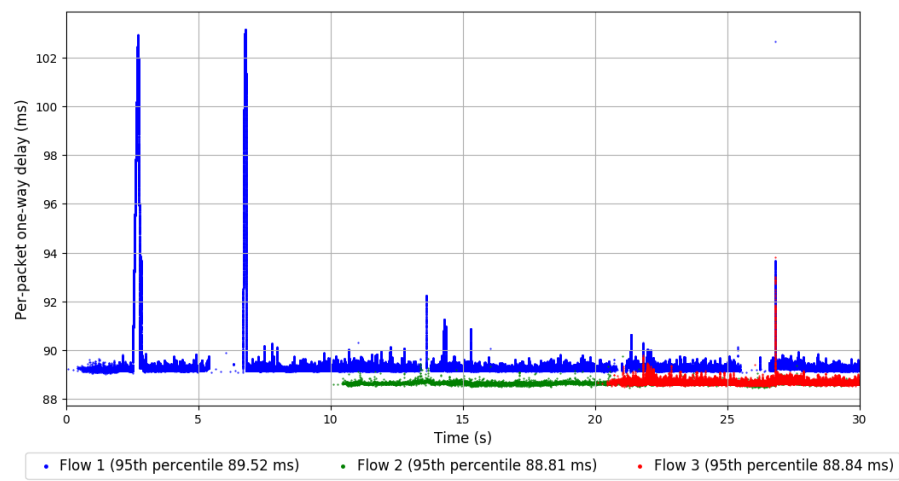
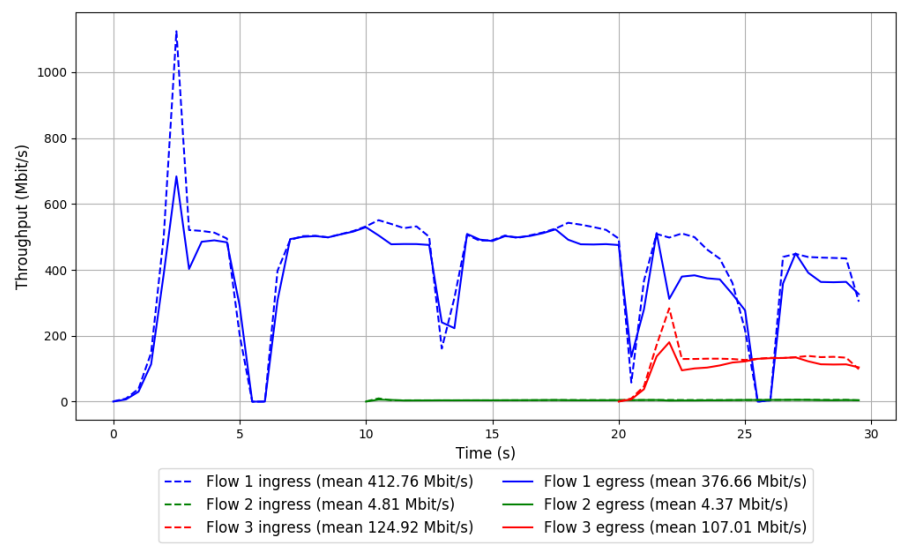
-- Flow 3:

Average throughput: 107.01 Mbit/s

95th percentile per-packet one-way delay: 88.841 ms

Loss rate: 14.34%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-06 01:11:26

End at: 2017-12-06 01:11:56

Local clock offset: 0.427 ms

Remote clock offset: 1.28 ms

Below is generated by plot.py at 2017-12-06 02:52:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.34 Mbit/s

95th percentile per-packet one-way delay: 89.360 ms

Loss rate: 10.42%

-- Flow 1:

Average throughput: 239.87 Mbit/s

95th percentile per-packet one-way delay: 89.471 ms

Loss rate: 7.53%

-- Flow 2:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 88.423 ms

Loss rate: 8.10%

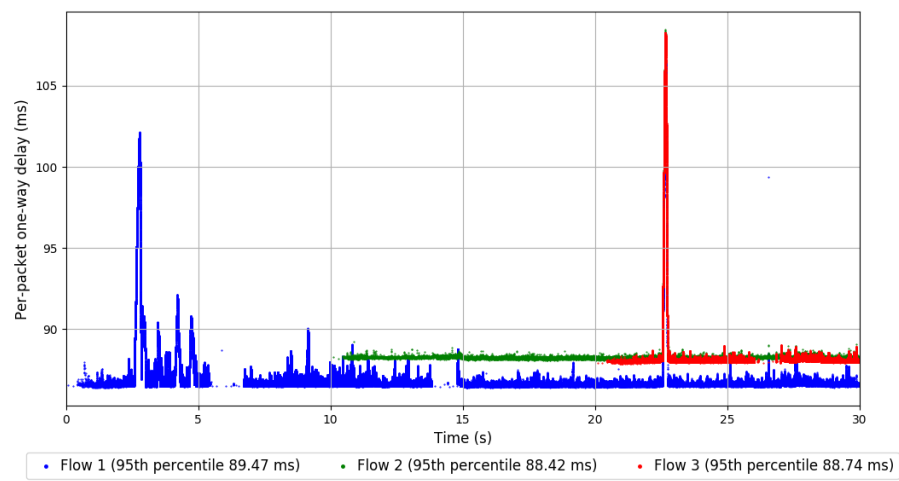
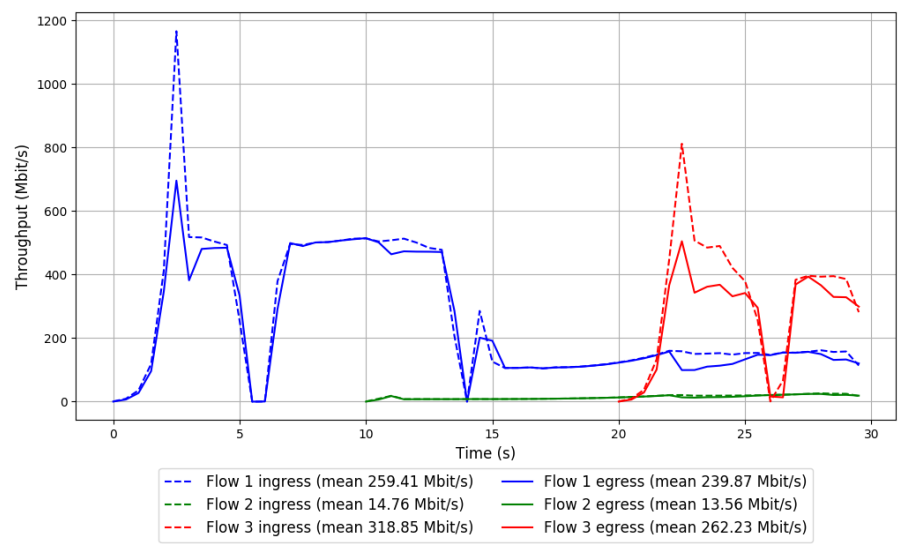
-- Flow 3:

Average throughput: 262.23 Mbit/s

95th percentile per-packet one-way delay: 88.739 ms

Loss rate: 17.76%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-06 01:31:11

End at: 2017-12-06 01:31:41

Local clock offset: 0.656 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.70 Mbit/s

95th percentile per-packet one-way delay: 89.226 ms

Loss rate: 18.04%

-- Flow 1:

Average throughput: 250.12 Mbit/s

95th percentile per-packet one-way delay: 88.680 ms

Loss rate: 13.03%

-- Flow 2:

Average throughput: 232.13 Mbit/s

95th percentile per-packet one-way delay: 89.678 ms

Loss rate: 24.89%

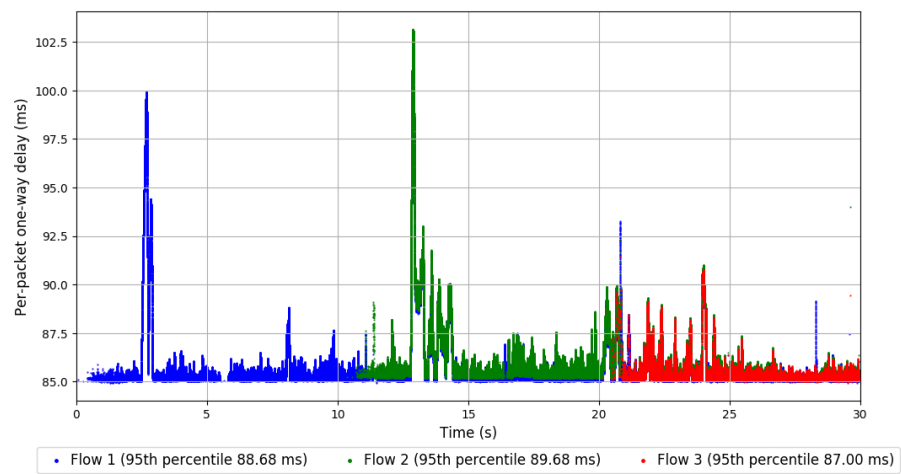
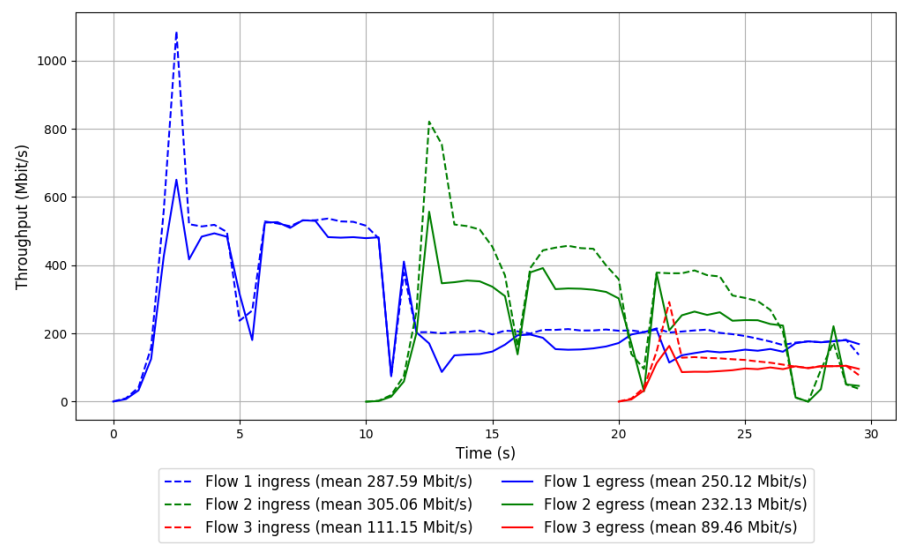
-- Flow 3:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 87.000 ms

Loss rate: 19.52%

Run 10: Report of PCC — Data Link

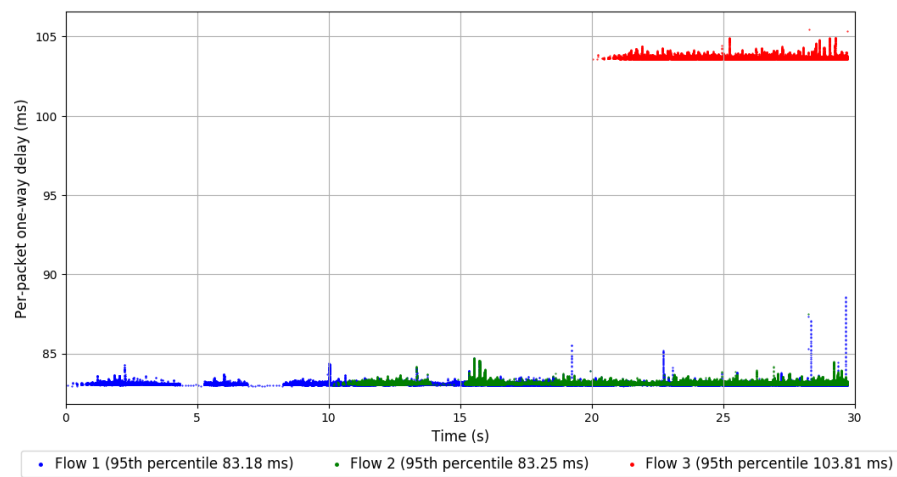
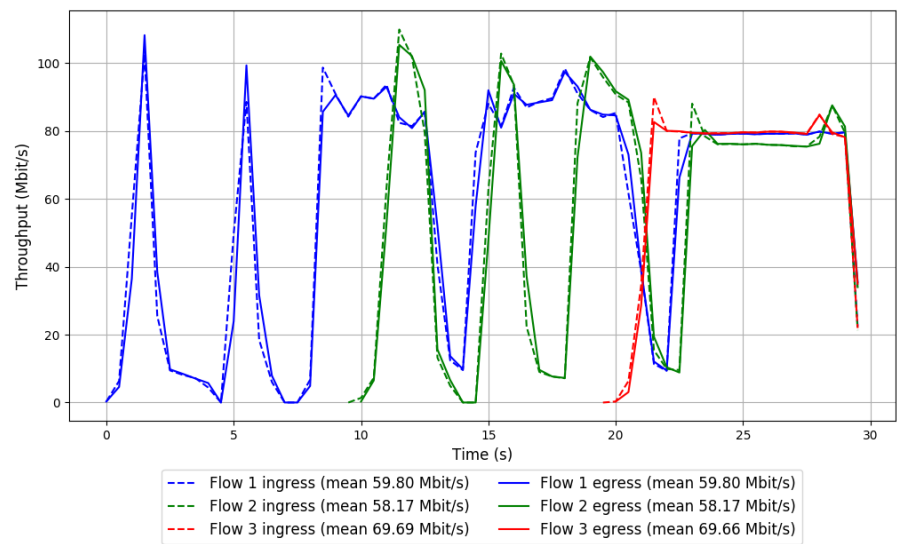


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 22:25:03
End at: 2017-12-05 22:25:33
Local clock offset: -1.909 ms
Remote clock offset: -3.399 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.17 Mbit/s
95th percentile per-packet one-way delay: 103.664 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 59.80 Mbit/s
95th percentile per-packet one-way delay: 83.184 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 83.247 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.66 Mbit/s
95th percentile per-packet one-way delay: 103.810 ms
Loss rate: 0.24%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 22:45:02

End at: 2017-12-05 22:45:32

Local clock offset: -2.622 ms

Remote clock offset: 2.864 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.59 Mbit/s

95th percentile per-packet one-way delay: 110.091 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 89.141 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 88.794 ms

Loss rate: 0.00%

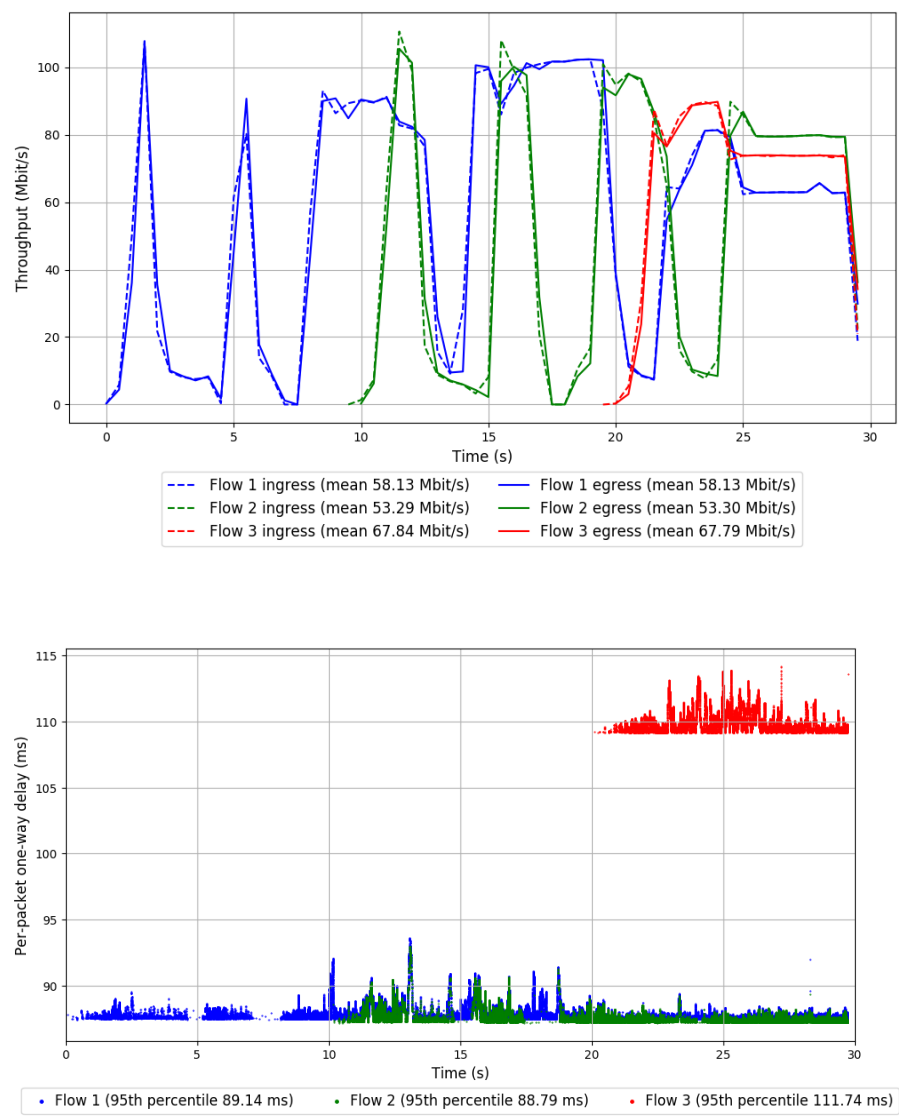
-- Flow 3:

Average throughput: 67.79 Mbit/s

95th percentile per-packet one-way delay: 111.736 ms

Loss rate: 0.23%

Run 2: Report of QUIC Cubic — Data Link

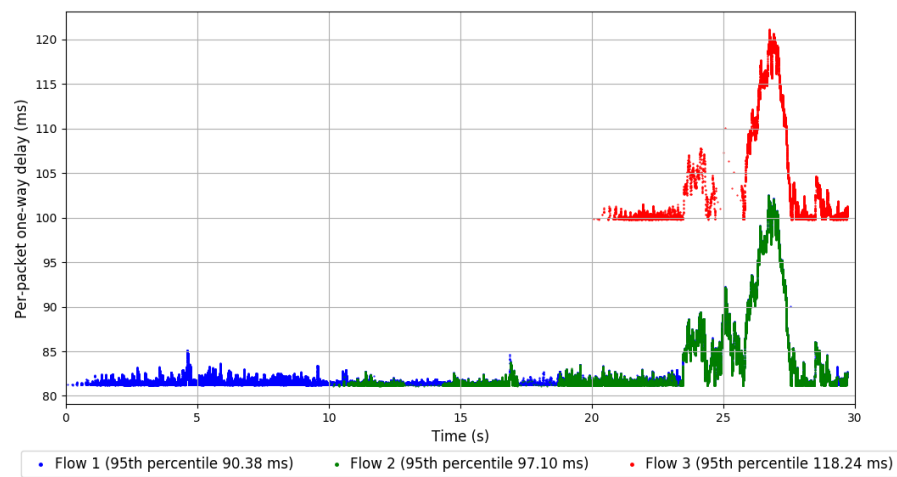
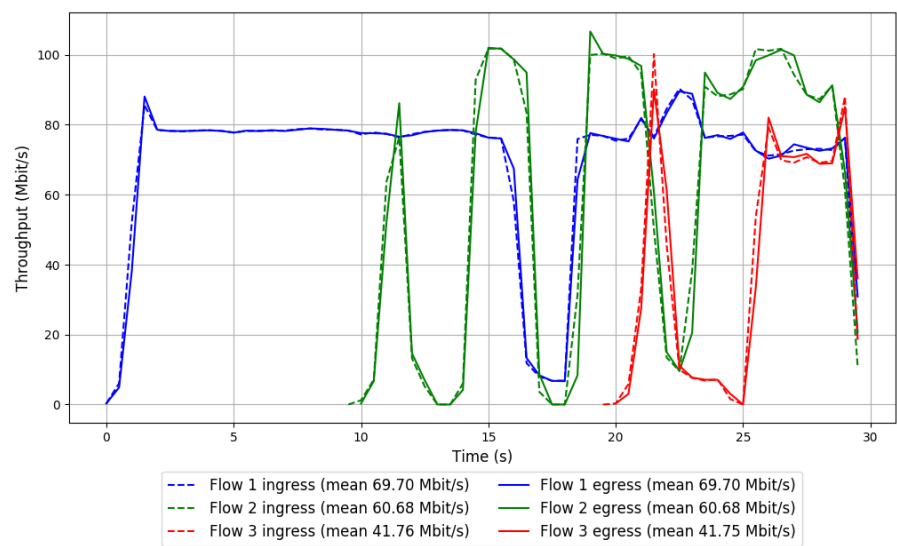


Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 23:05:01
End at: 2017-12-05 23:05:31
Local clock offset: -2.951 ms
Remote clock offset: -2.998 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 123.53 Mbit/s
95th percentile per-packet one-way delay: 101.239 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.70 Mbit/s
95th percentile per-packet one-way delay: 90.382 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.68 Mbit/s
95th percentile per-packet one-way delay: 97.099 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 118.243 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

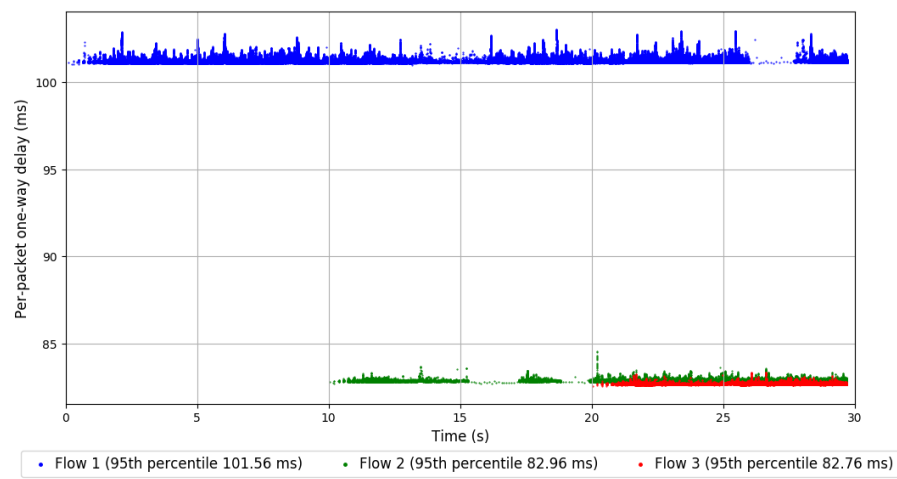
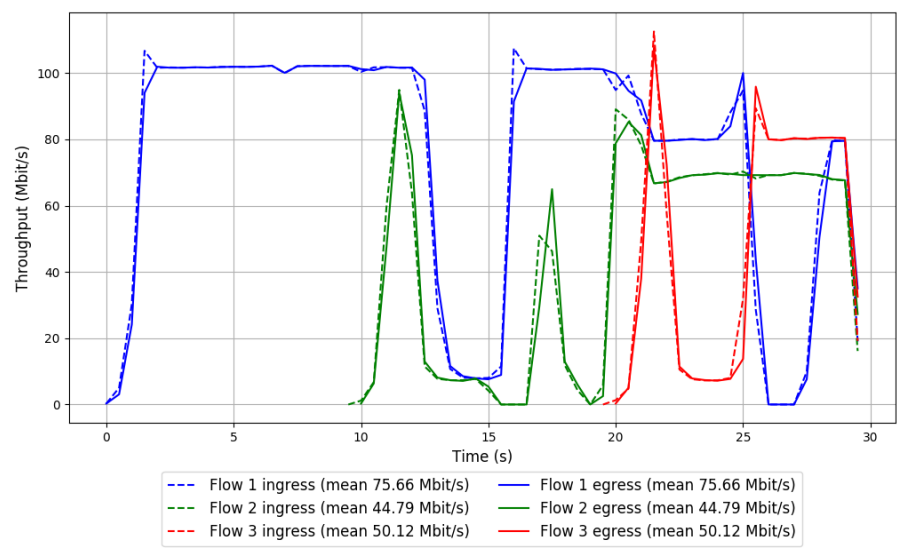


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 23:25:35
End at: 2017-12-05 23:26:05
Local clock offset: -2.227 ms
Remote clock offset: -3.521 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.76 Mbit/s
95th percentile per-packet one-way delay: 101.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.66 Mbit/s
95th percentile per-packet one-way delay: 101.559 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.79 Mbit/s
95th percentile per-packet one-way delay: 82.957 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 82.763 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 23:45:57

End at: 2017-12-05 23:46:27

Local clock offset: -1.598 ms

Remote clock offset: -3.21 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.89 Mbit/s

95th percentile per-packet one-way delay: 83.527 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.19 Mbit/s

95th percentile per-packet one-way delay: 83.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 83.208 ms

Loss rate: 0.00%

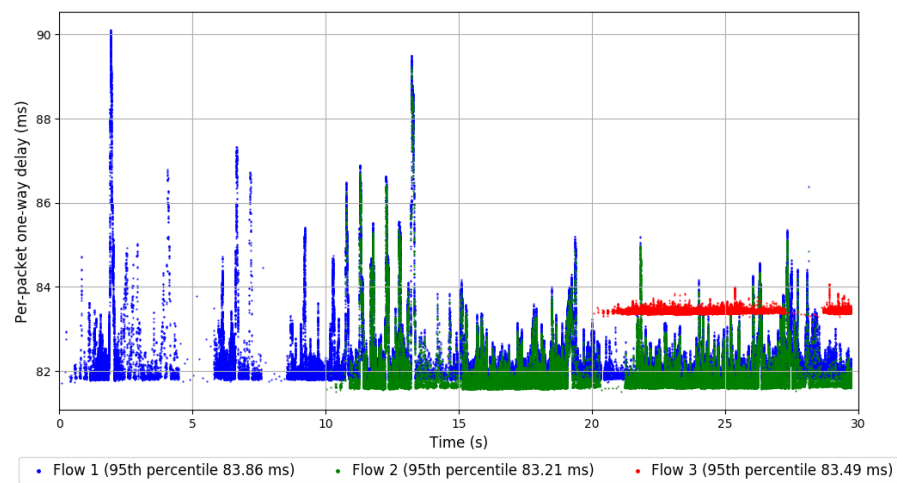
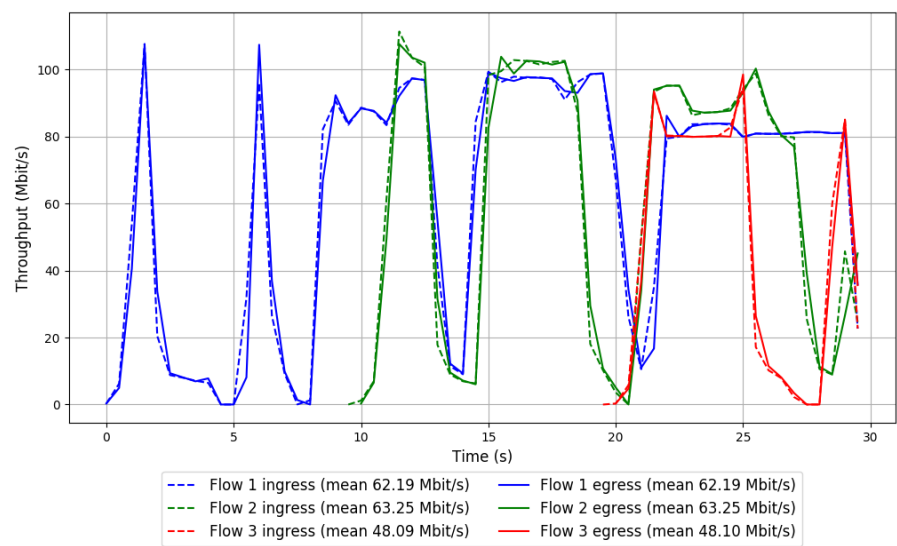
-- Flow 3:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 83.490 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 00:06:29

End at: 2017-12-06 00:06:59

Local clock offset: -1.124 ms

Remote clock offset: 1.158 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.81 Mbit/s

95th percentile per-packet one-way delay: 88.186 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.89 Mbit/s

95th percentile per-packet one-way delay: 88.018 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.56 Mbit/s

95th percentile per-packet one-way delay: 87.709 ms

Loss rate: 0.00%

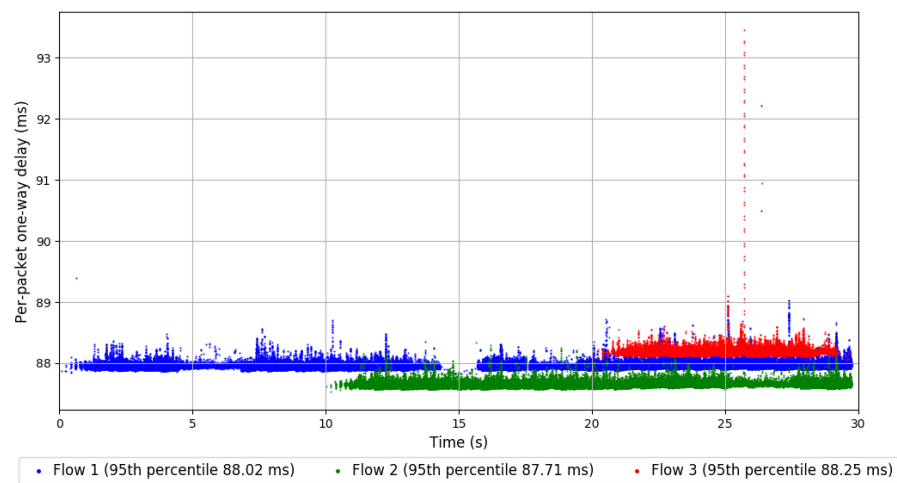
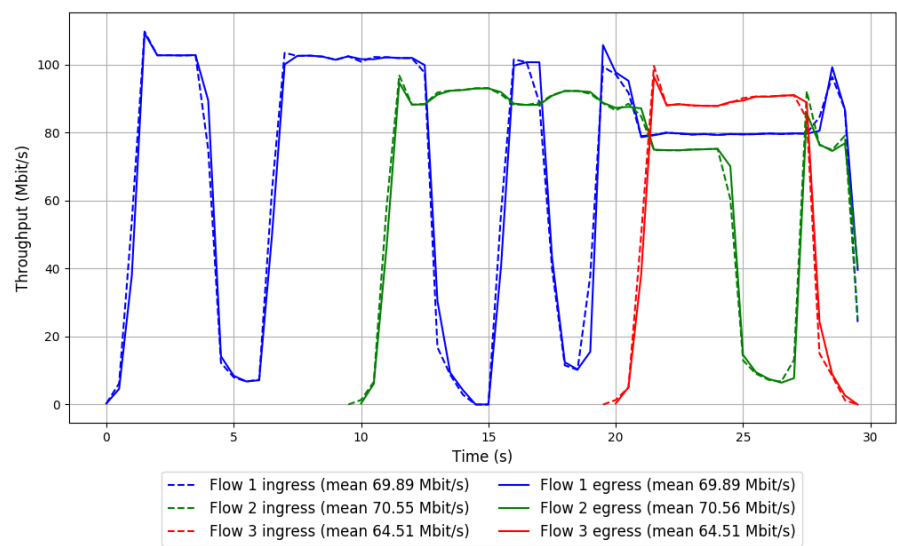
-- Flow 3:

Average throughput: 64.51 Mbit/s

95th percentile per-packet one-way delay: 88.247 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

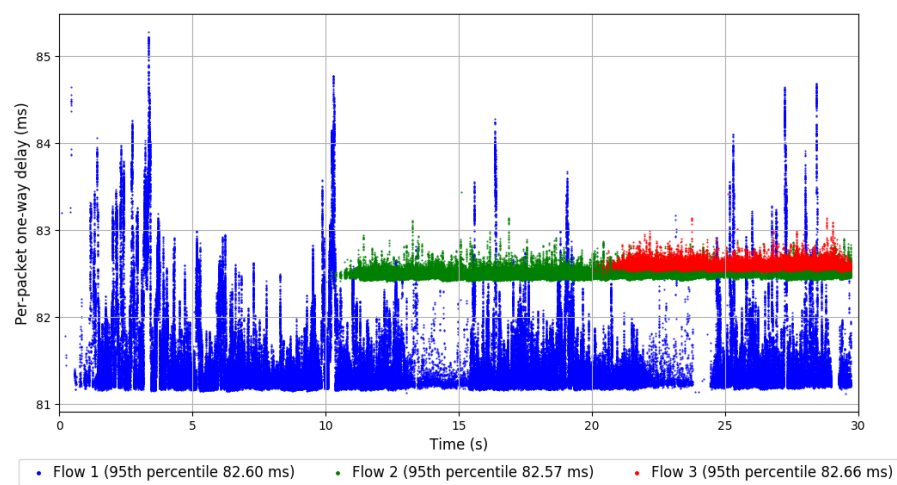
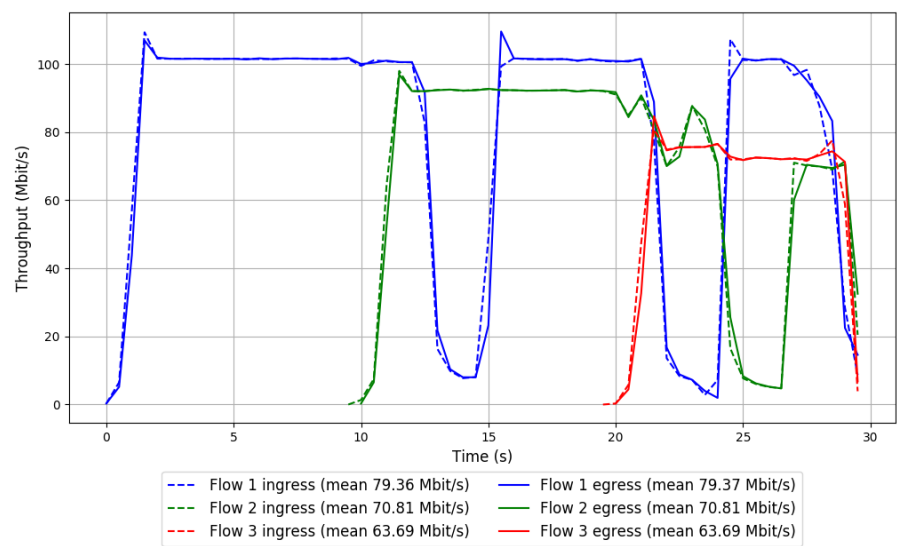


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 00:26:42
End at: 2017-12-06 00:27:12
Local clock offset: -0.701 ms
Remote clock offset: -4.095 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.20 Mbit/s
95th percentile per-packet one-way delay: 82.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 82.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.81 Mbit/s
95th percentile per-packet one-way delay: 82.569 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.69 Mbit/s
95th percentile per-packet one-way delay: 82.664 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

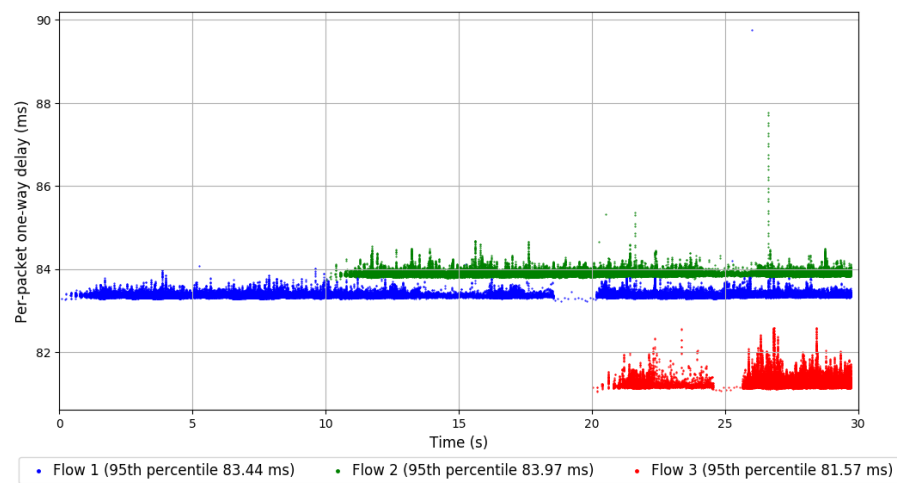
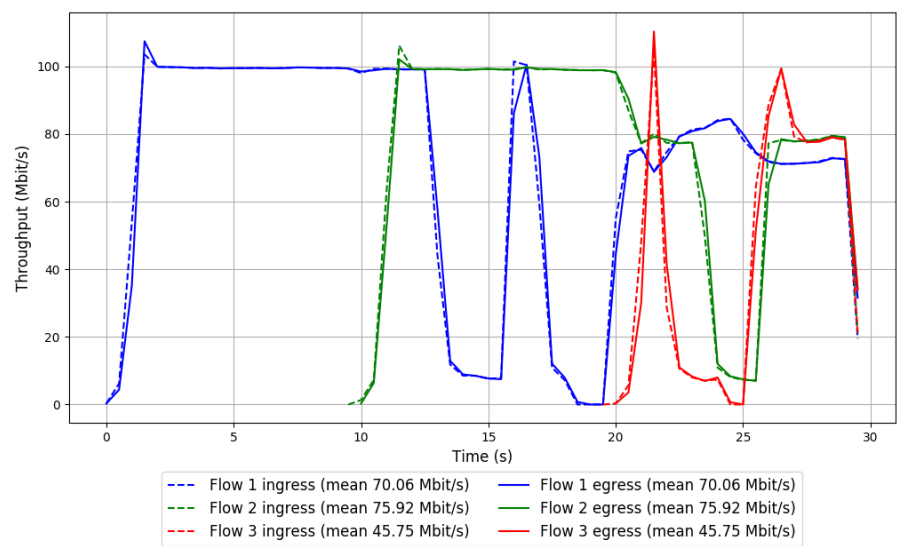


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 00:46:56
End at: 2017-12-06 00:47:26
Local clock offset: -0.159 ms
Remote clock offset: -3.553 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.46 Mbit/s
95th percentile per-packet one-way delay: 83.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.06 Mbit/s
95th percentile per-packet one-way delay: 83.436 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 75.92 Mbit/s
95th percentile per-packet one-way delay: 83.970 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.75 Mbit/s
95th percentile per-packet one-way delay: 81.566 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 01:07:07

End at: 2017-12-06 01:07:37

Local clock offset: 0.24 ms

Remote clock offset: -4.37 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.77 Mbit/s

95th percentile per-packet one-way delay: 82.532 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 82.542 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.51 Mbit/s

95th percentile per-packet one-way delay: 82.234 ms

Loss rate: 0.00%

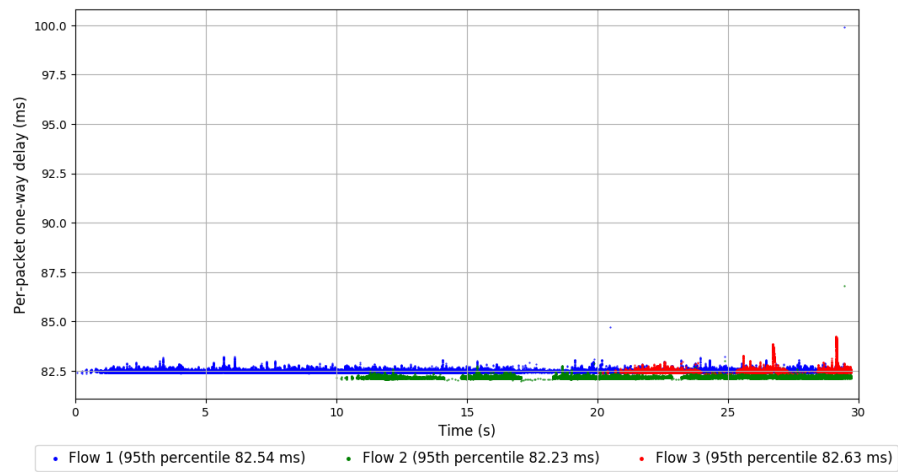
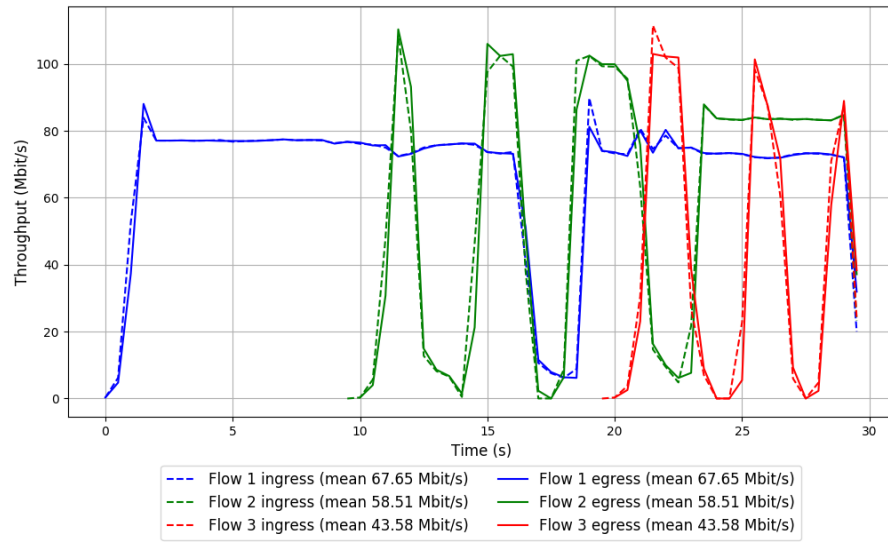
-- Flow 3:

Average throughput: 43.58 Mbit/s

95th percentile per-packet one-way delay: 82.628 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 01:26:56

End at: 2017-12-06 01:27:26

Local clock offset: 0.596 ms

Remote clock offset: 1.62 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.96 Mbit/s

95th percentile per-packet one-way delay: 89.304 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.76 Mbit/s

95th percentile per-packet one-way delay: 89.334 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 88.448 ms

Loss rate: 0.00%

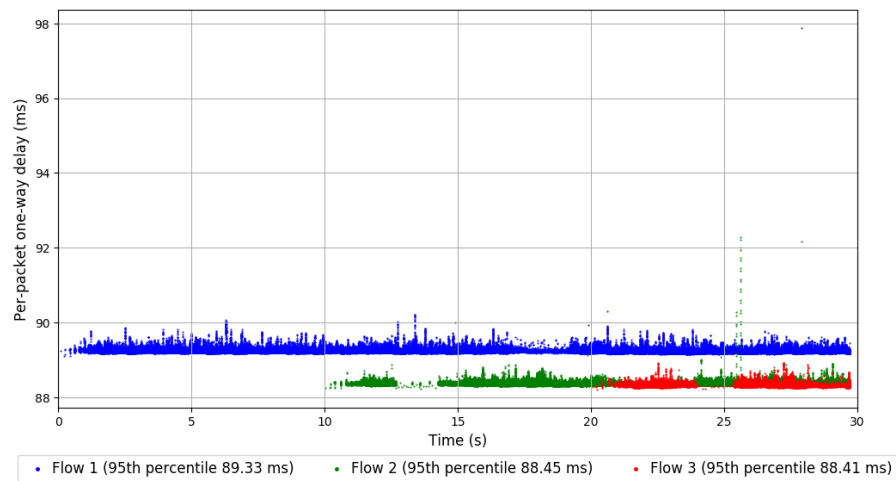
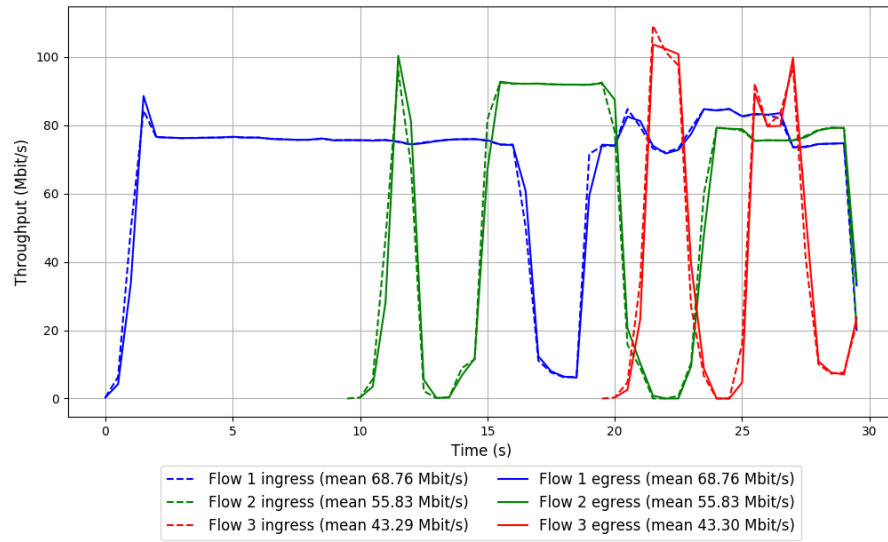
-- Flow 3:

Average throughput: 43.30 Mbit/s

95th percentile per-packet one-way delay: 88.413 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

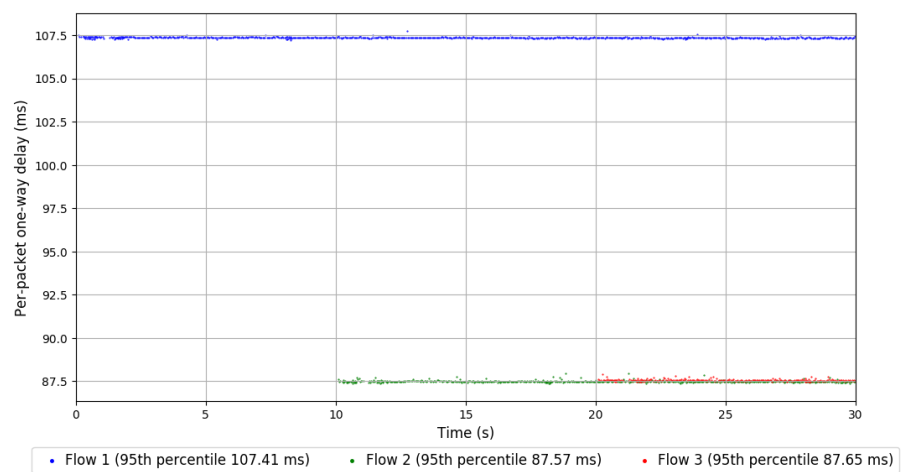
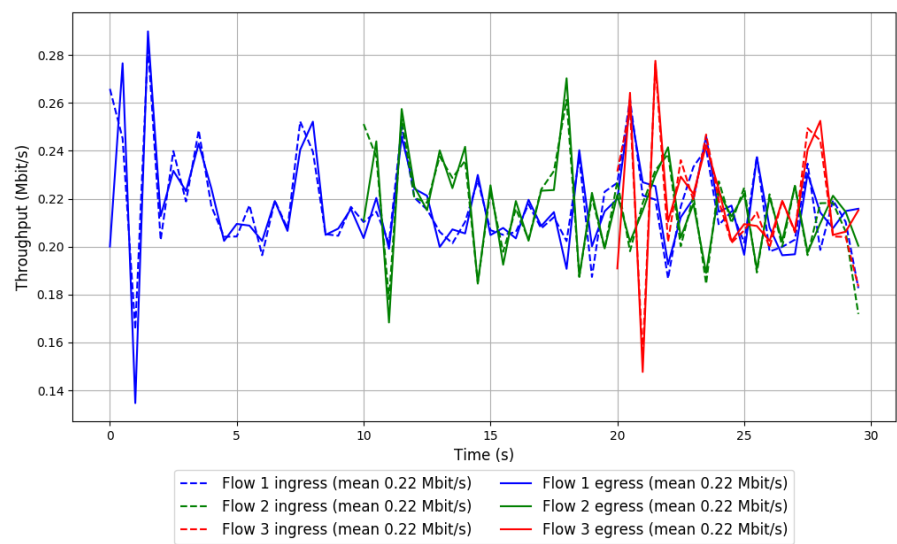


```
Run 1: Statistics of SReAM

Start at: 2017-12-05 22:36:26
End at: 2017-12-05 22:36:56
Local clock offset: -2.317 ms
Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2017-12-06 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 107.396 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.410 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.574 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.648 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

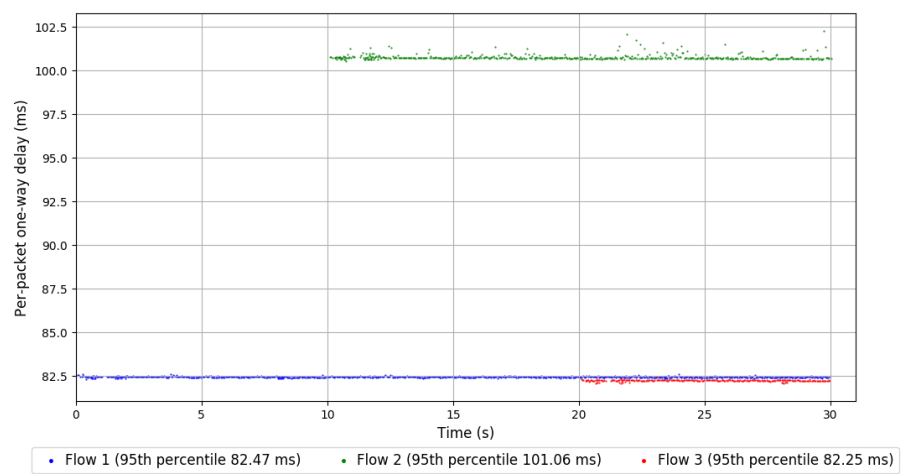
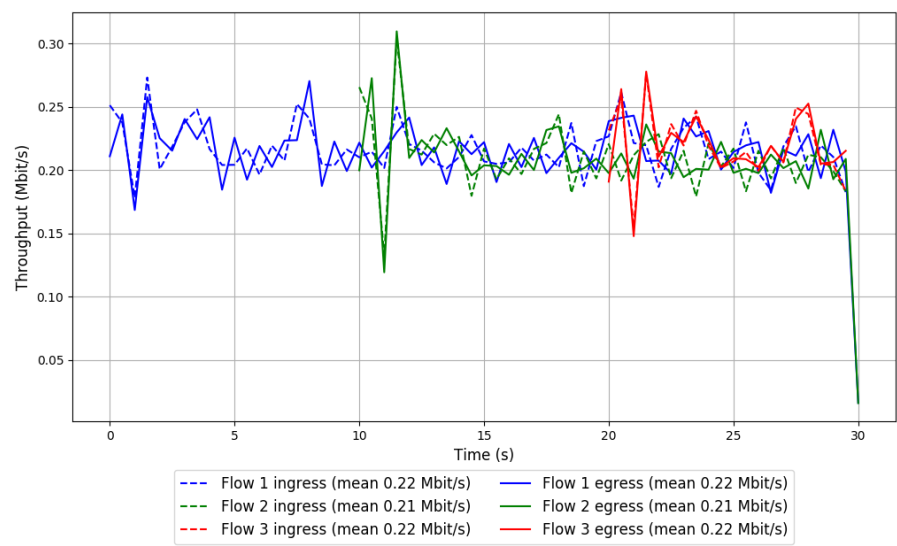


Run 2: Statistics of SReAM

Start at: 2017-12-05 22:56:29
End at: 2017-12-05 22:56:59
Local clock offset: -3.129 ms
Remote clock offset: -3.466 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 100.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 101.063 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.255 ms
Loss rate: 0.00%

Run 2: Report of SCRaM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-12-05 23:16:46

End at: 2017-12-05 23:17:16

Local clock offset: -2.458 ms

Remote clock offset: 2.472 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 87.544 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.00%

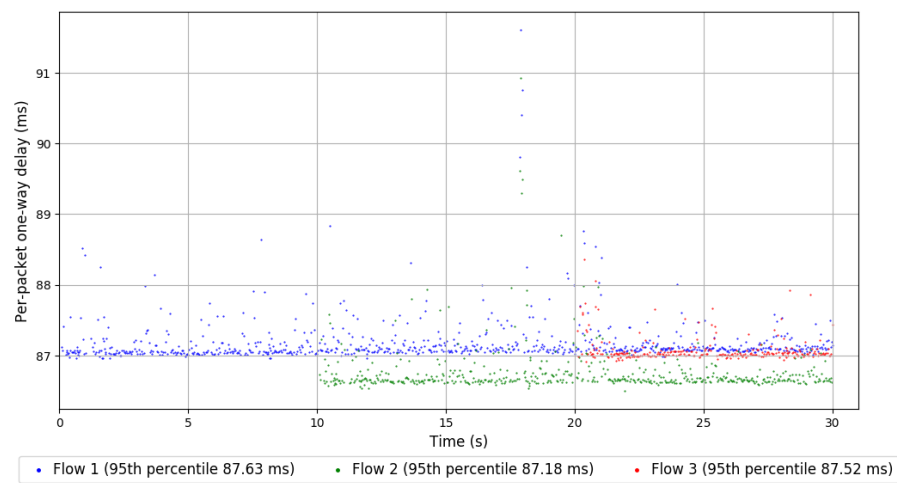
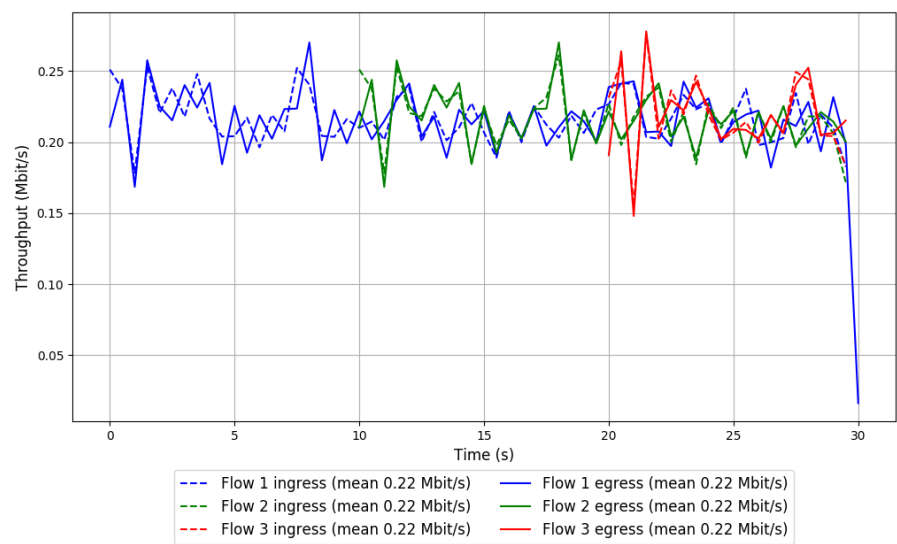
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.515 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

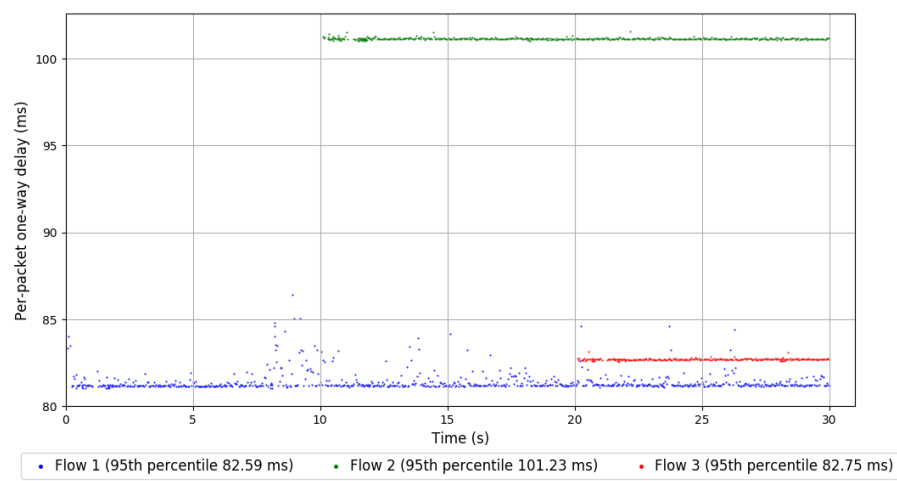
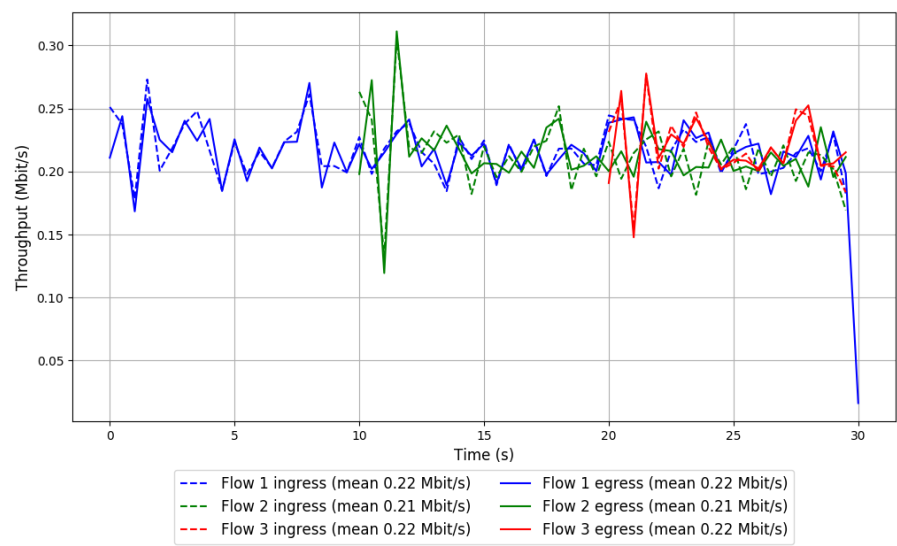


Run 4: Statistics of SReAM

Start at: 2017-12-05 23:37:31
End at: 2017-12-05 23:38:01
Local clock offset: -1.868 ms
Remote clock offset: -3.824 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 101.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.592 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 101.230 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.753 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-12-05 23:57:38

End at: 2017-12-05 23:58:08

Local clock offset: -1.265 ms

Remote clock offset: -3.52 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.148 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.169 ms

Loss rate: 0.00%

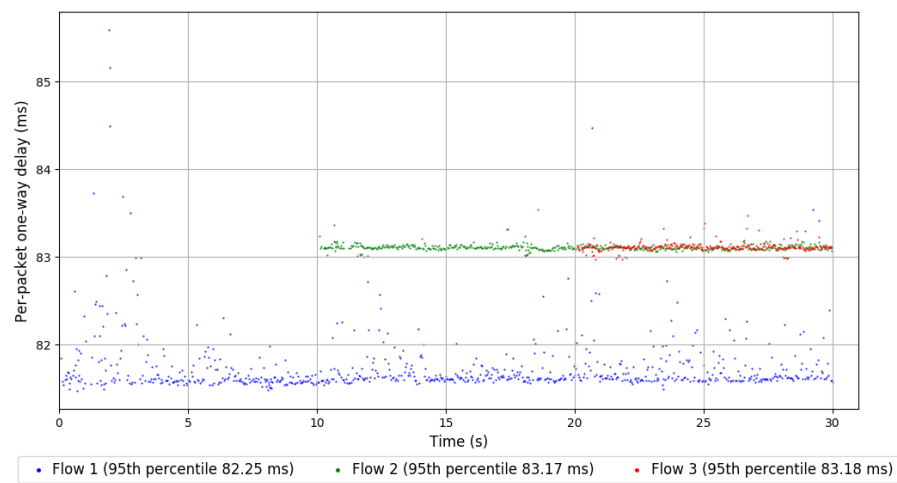
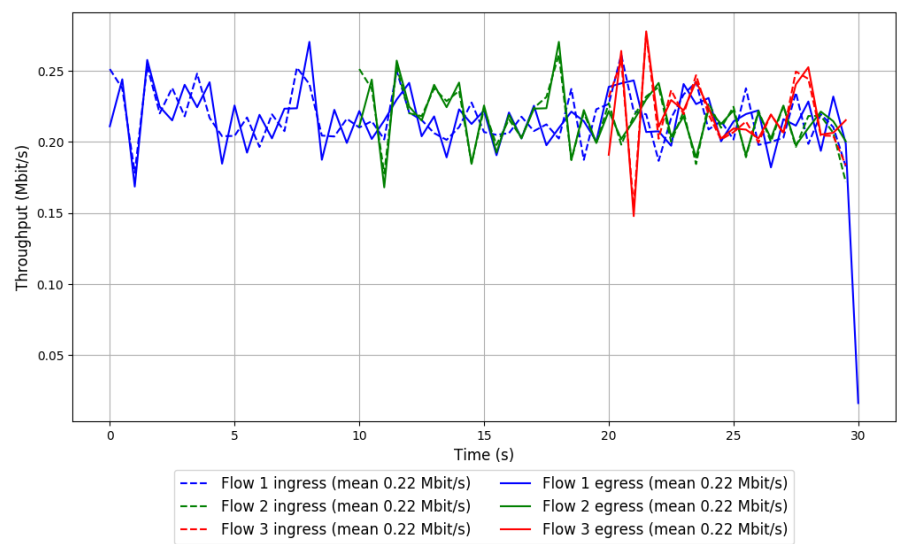
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.176 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-06 00:18:15

End at: 2017-12-06 00:18:45

Local clock offset: -0.946 ms

Remote clock offset: -4.16 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 82.951 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.949 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.721 ms

Loss rate: 0.00%

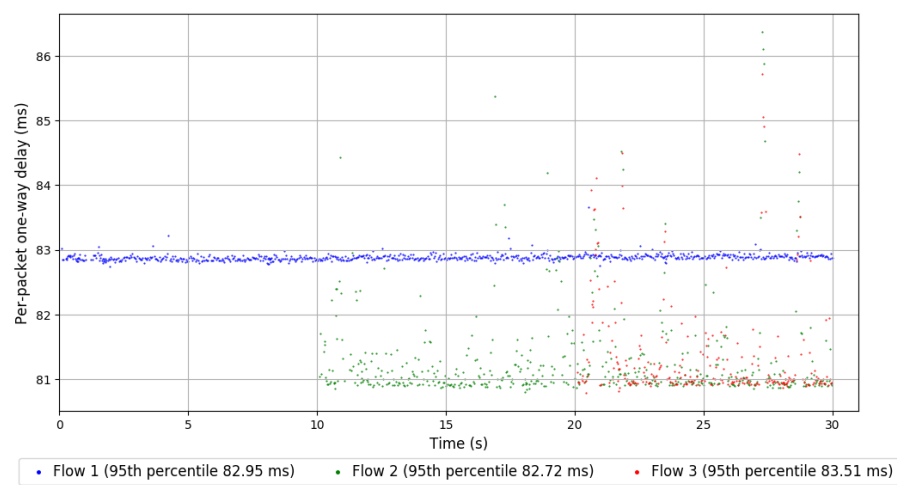
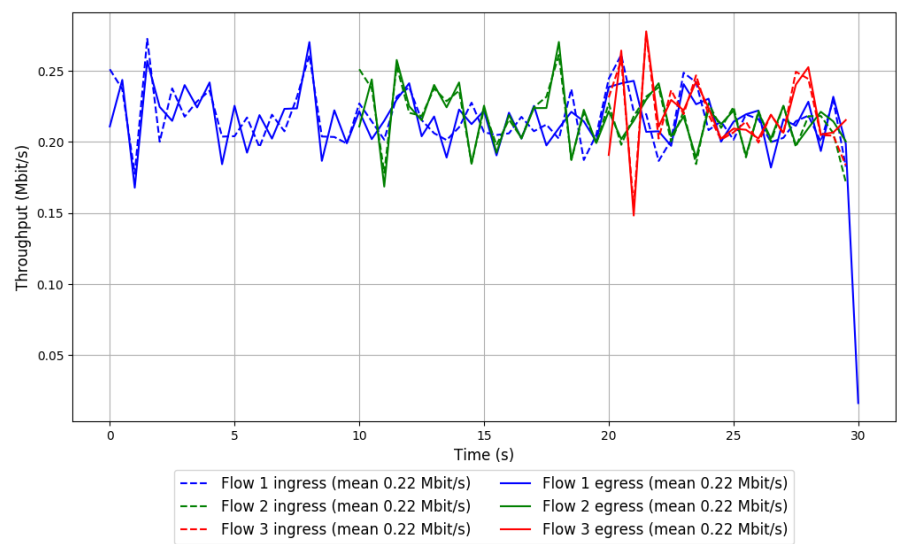
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.510 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-12-06 00:38:22

End at: 2017-12-06 00:38:52

Local clock offset: -0.39 ms

Remote clock offset: 1.328 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 89.226 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.736 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.180 ms

Loss rate: 0.00%

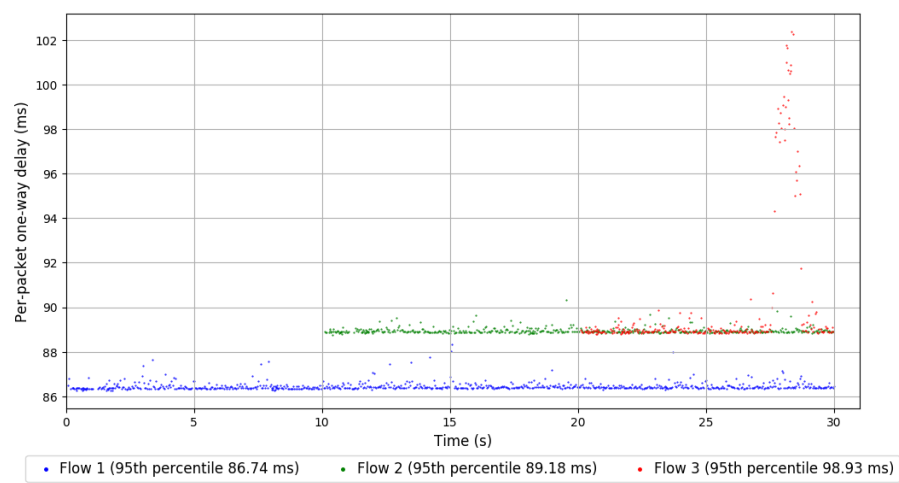
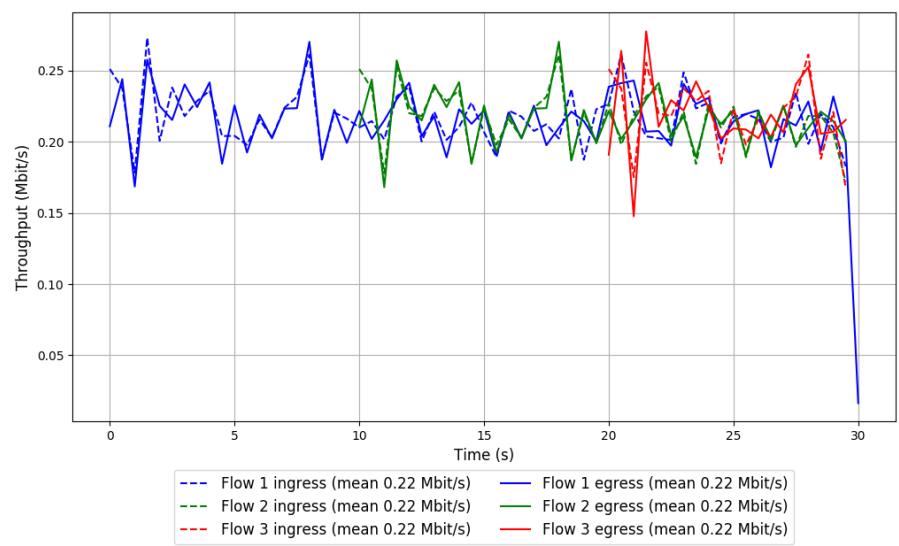
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.934 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

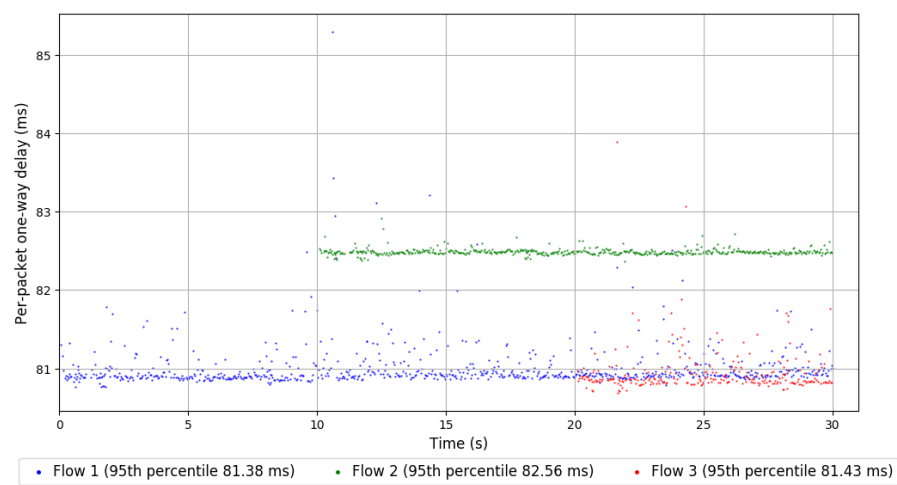
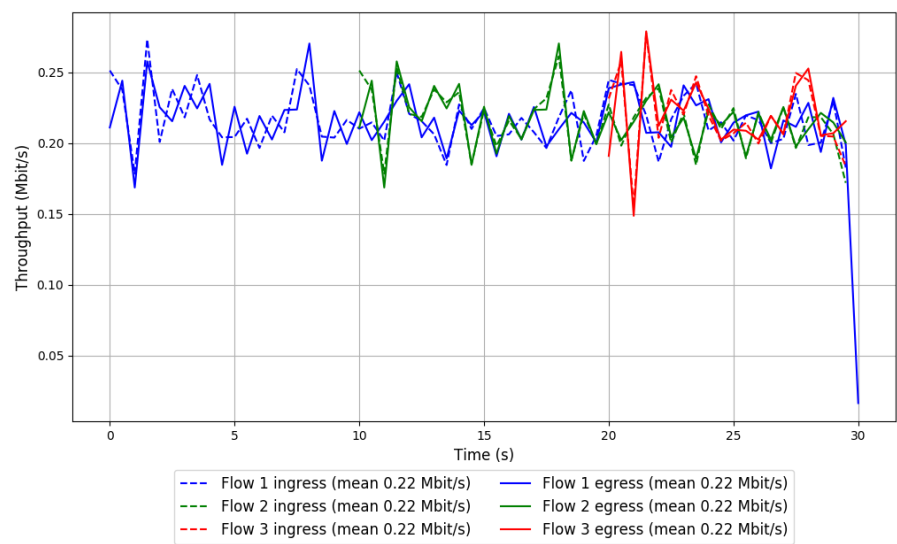


Run 8: Statistics of SReAM

Start at: 2017-12-06 00:58:37
End at: 2017-12-06 00:59:07
Local clock offset: 0.11 ms
Remote clock offset: -4.166 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.557 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.430 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-12-06 01:18:34

End at: 2017-12-06 01:19:04

Local clock offset: 0.522 ms

Remote clock offset: 0.642 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 87.791 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.738 ms

Loss rate: 0.00%

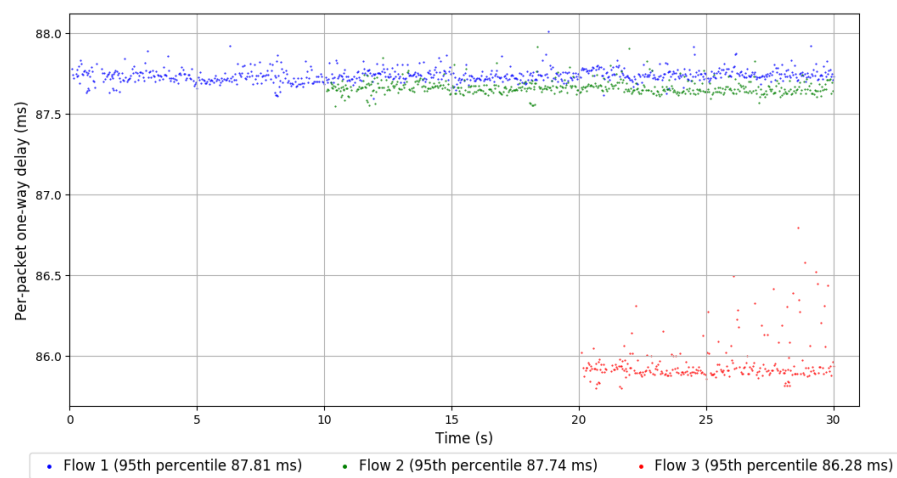
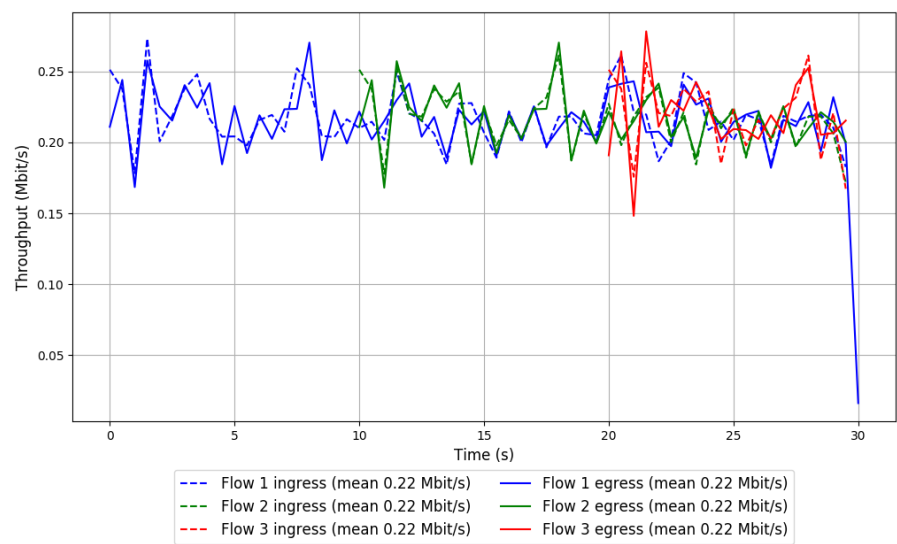
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.284 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

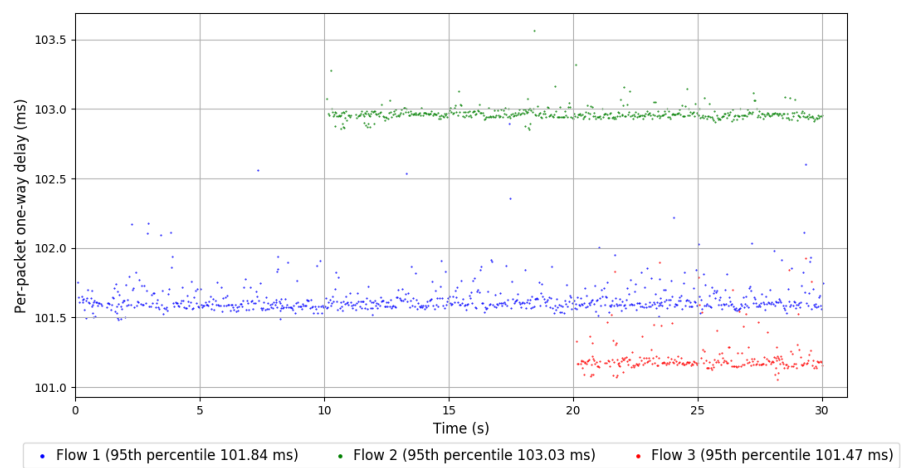
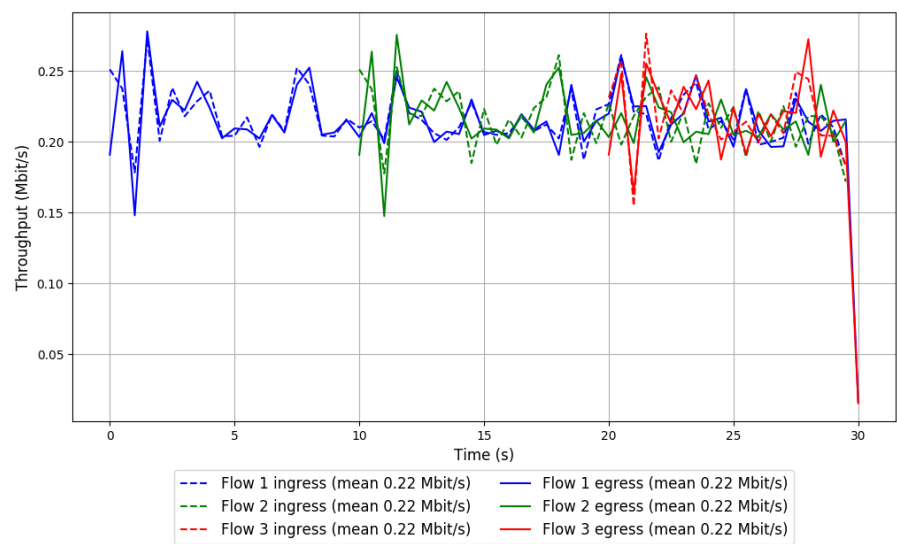


Run 10: Statistics of SCReAM

Start at: 2017-12-06 01:38:38
End at: 2017-12-06 01:39:08
Local clock offset: 0.696 ms
Remote clock offset: 16.898 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 102.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 103.029 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.468 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

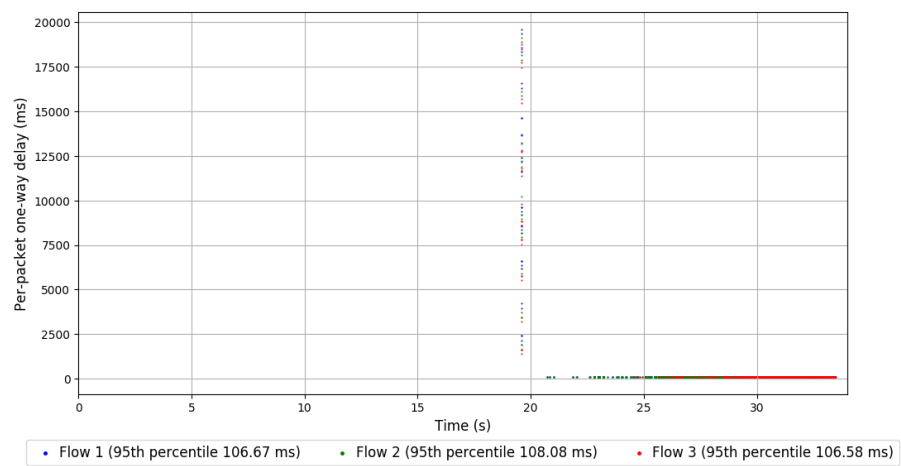
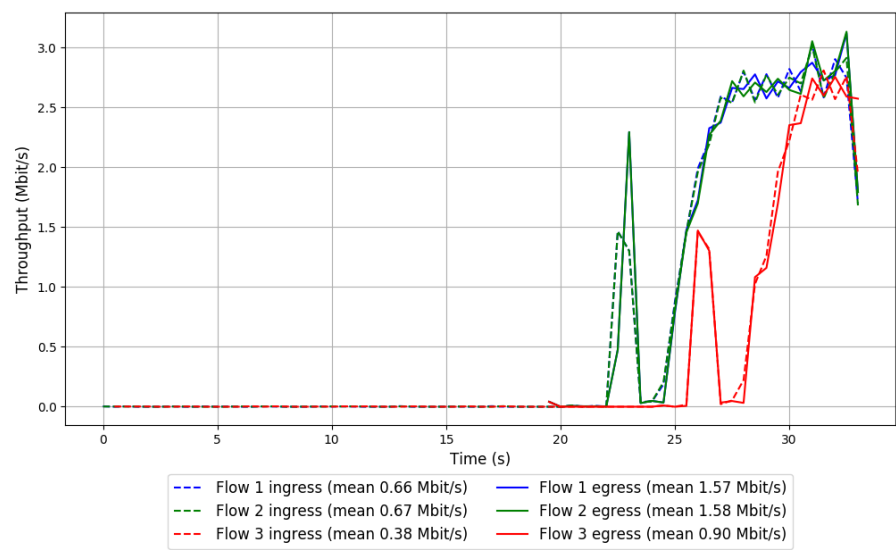
Start at: 2017-12-05 22:30:34

End at: 2017-12-05 22:31:04

Local clock offset: -2.117 ms

Remote clock offset: 0.776 ms

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

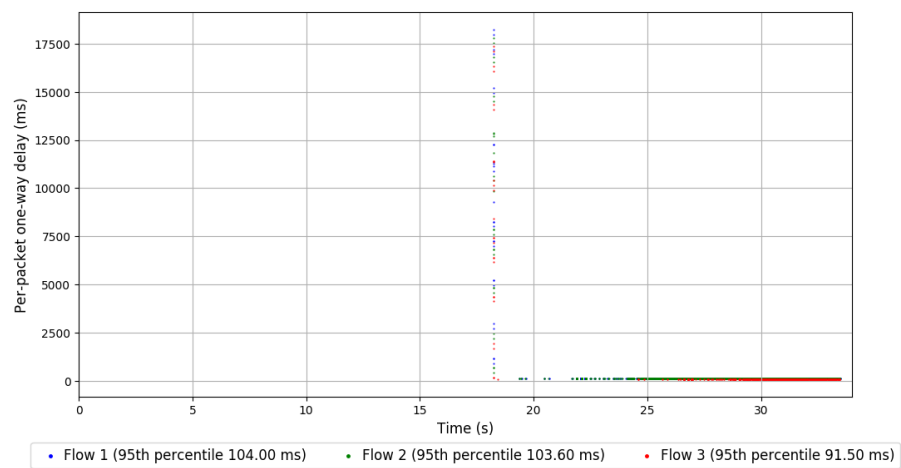
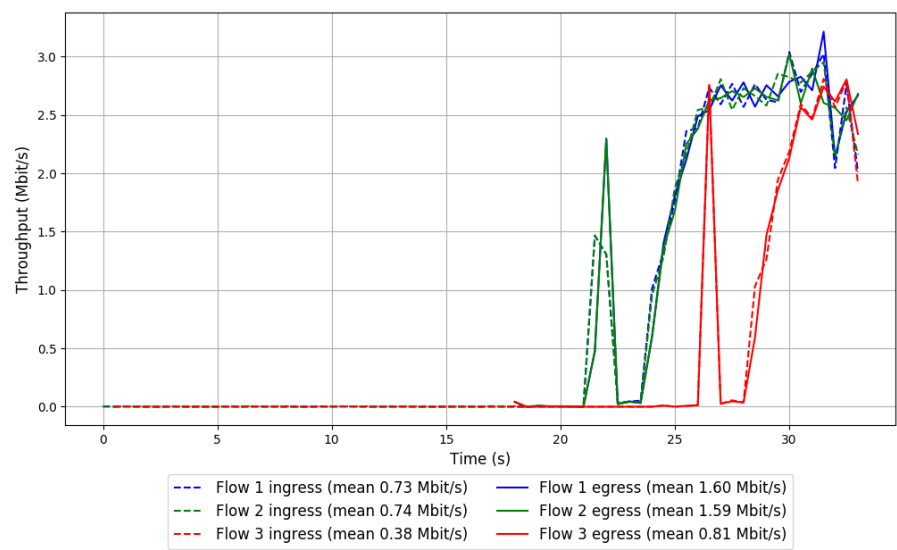
Start at: 2017-12-05 22:50:33

End at: 2017-12-05 22:51:03

Local clock offset: -2.836 ms

Remote clock offset: -2.736 ms

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-05 23:10:47

End at: 2017-12-05 23:11:17

Local clock offset: -2.762 ms

Remote clock offset: 1.578 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 108.397 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 109.280 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 106.621 ms

Loss rate: 0.00%

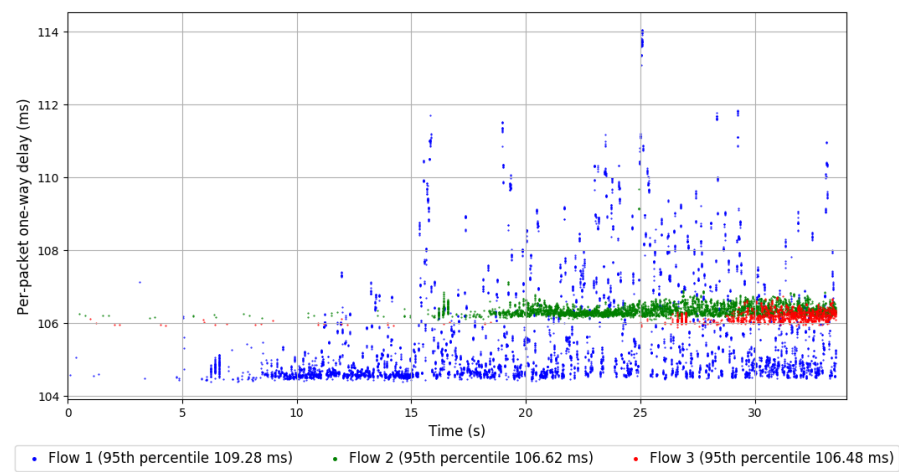
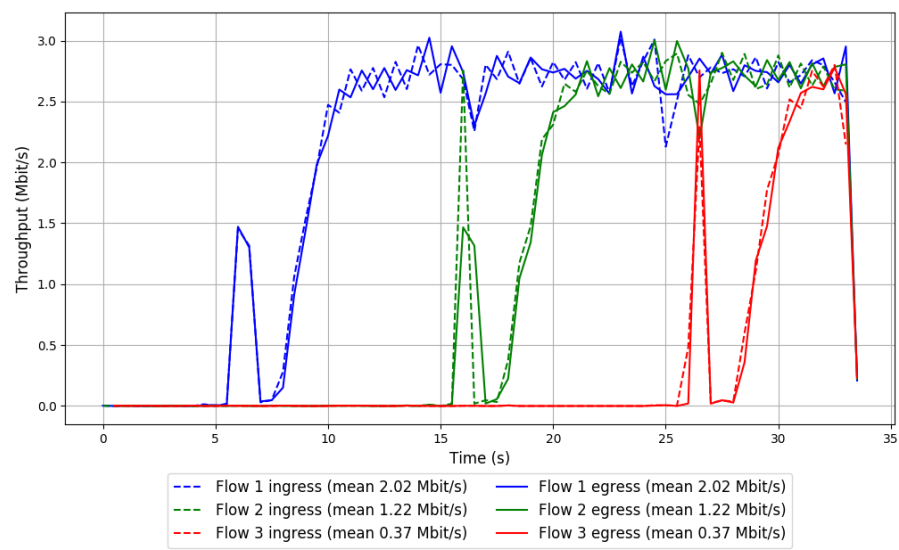
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 106.484 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

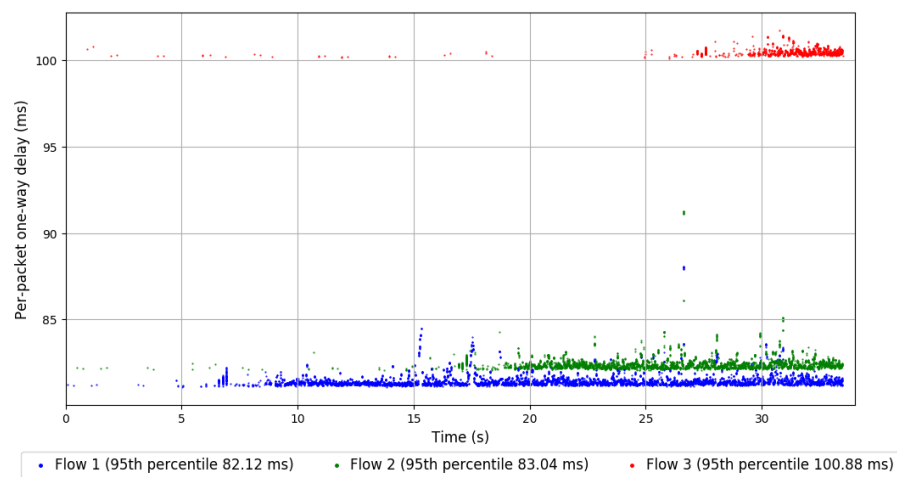
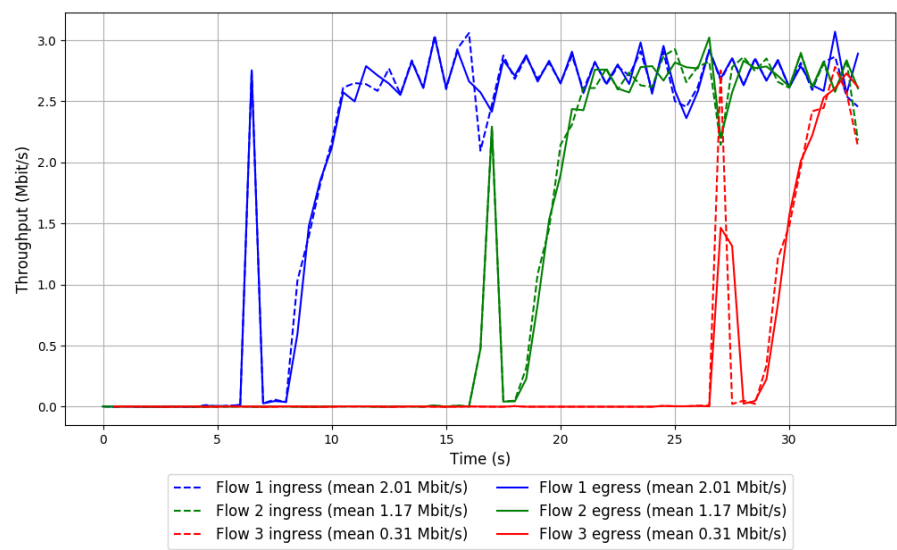


Run 4: Statistics of WebRTC media

Start at: 2017-12-05 23:31:20
End at: 2017-12-05 23:31:50
Local clock offset: -2.049 ms
Remote clock offset: -3.083 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 100.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 82.117 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 83.036 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 100.881 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

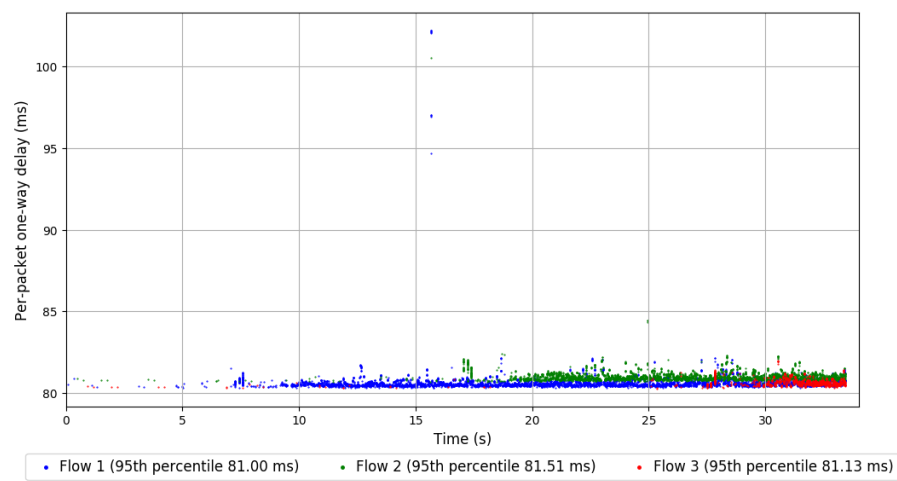
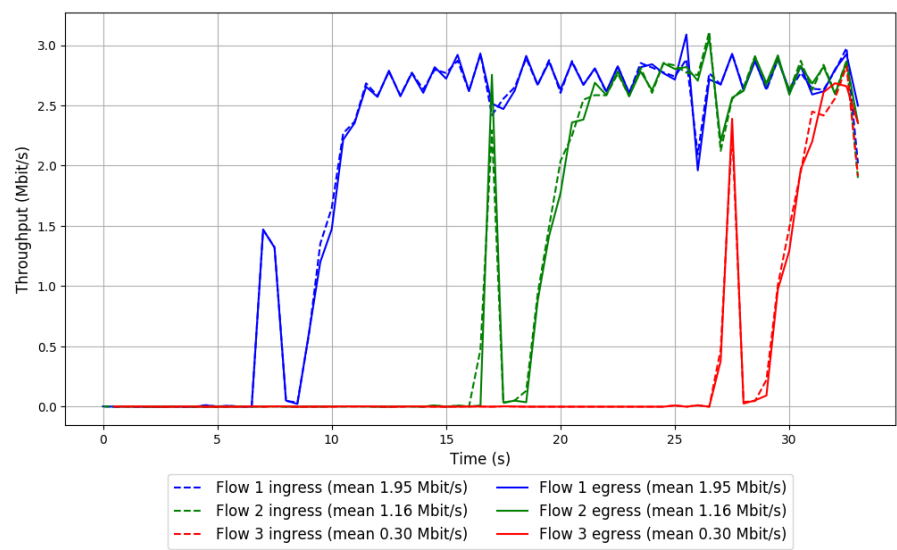


Run 5: Statistics of WebRTC media

Start at: 2017-12-05 23:51:44
End at: 2017-12-05 23:52:14
Local clock offset: -1.427 ms
Remote clock offset: -4.511 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 81.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 80.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 81.506 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 81.127 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

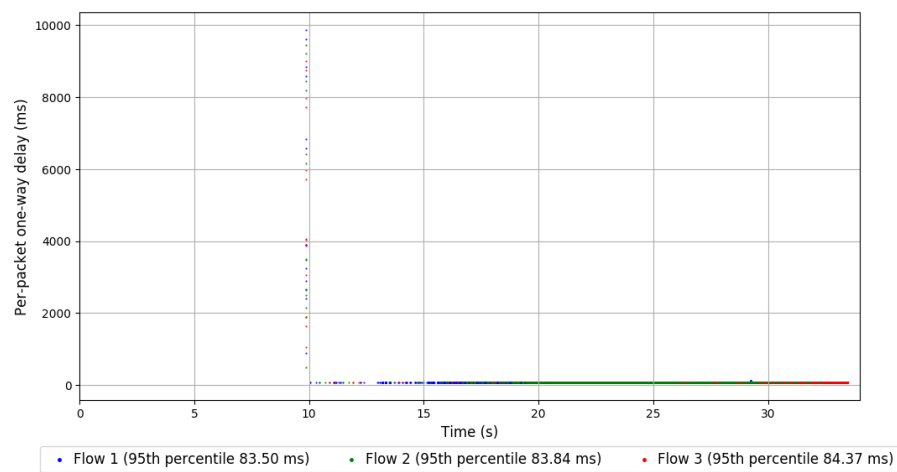
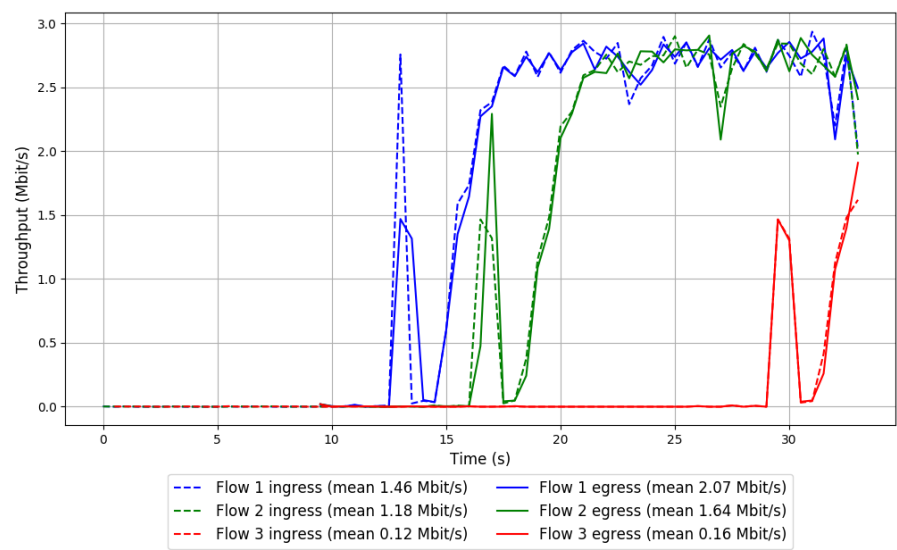
Start at: 2017-12-06 00:12:12

End at: 2017-12-06 00:12:42

Local clock offset: -1.014 ms

Remote clock offset: -3.305 ms

Run 6: Report of WebRTC media — Data Link

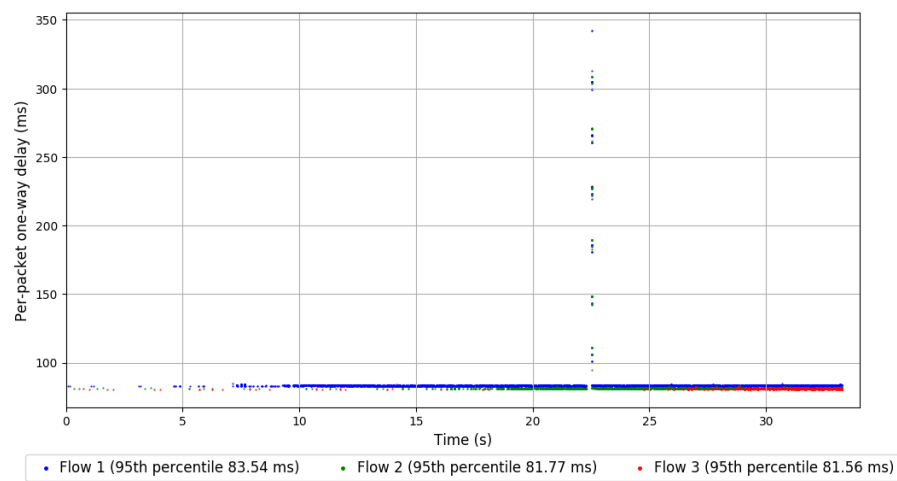
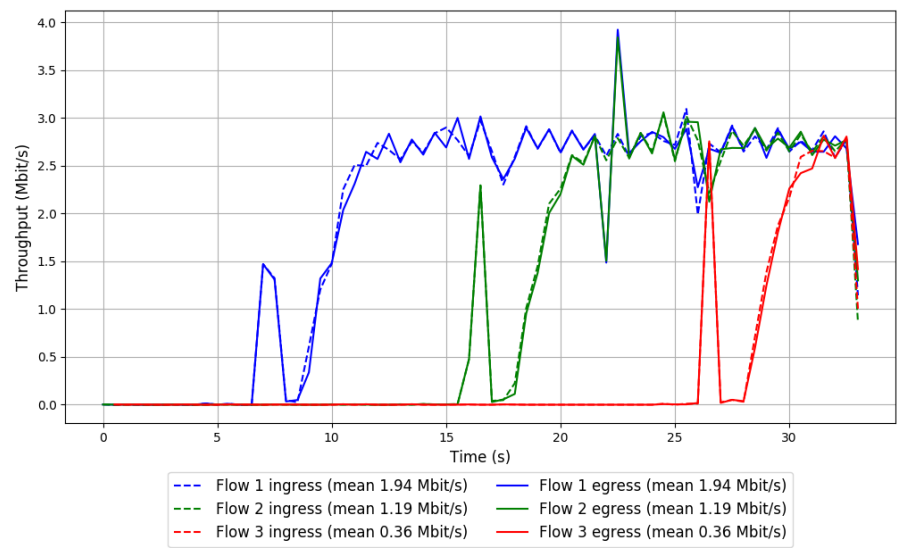


Run 7: Statistics of WebRTC media

Start at: 2017-12-06 00:32:30
End at: 2017-12-06 00:33:00
Local clock offset: -0.554 ms
Remote clock offset: -4.284 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 83.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 83.543 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 81.770 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 81.556 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-06 00:52:42

End at: 2017-12-06 00:53:12

Local clock offset: -0.108 ms

Remote clock offset: 2.102 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 89.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 89.157 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 89.673 ms

Loss rate: 0.00%

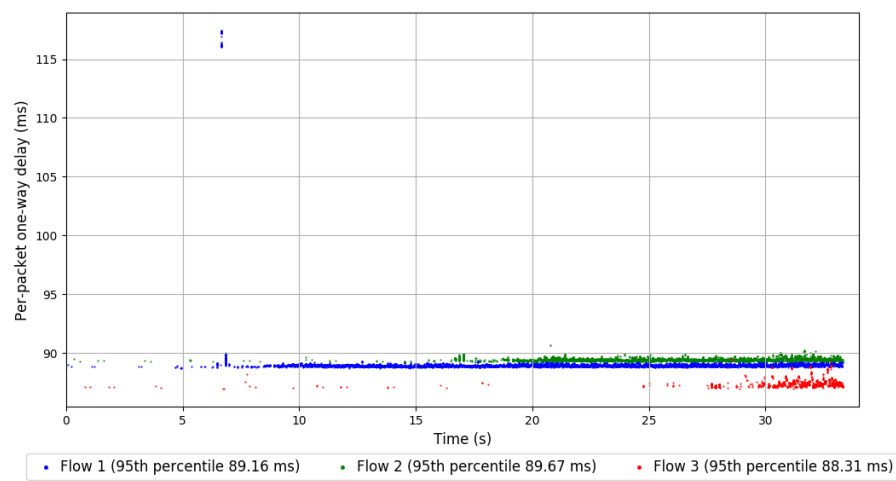
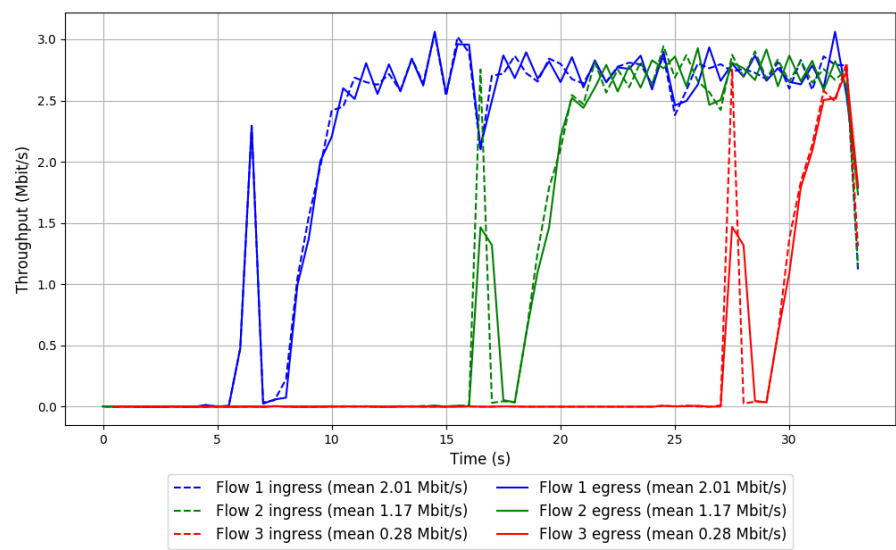
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 88.310 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

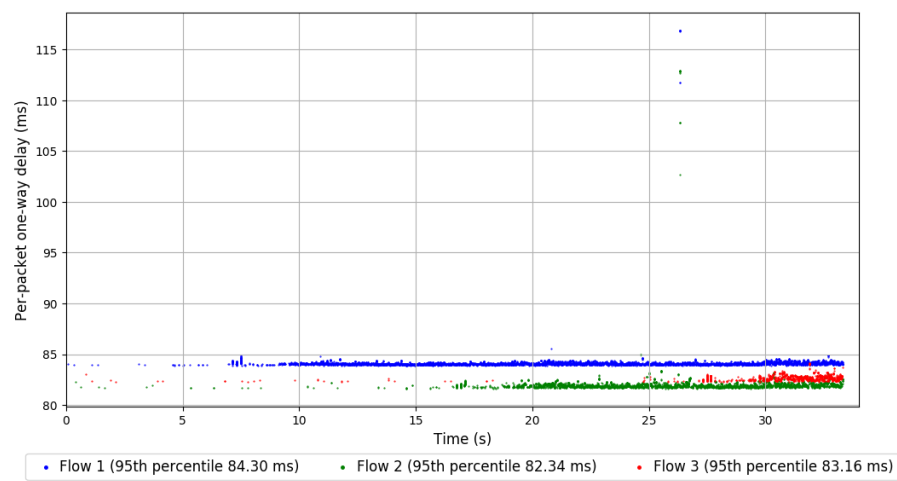
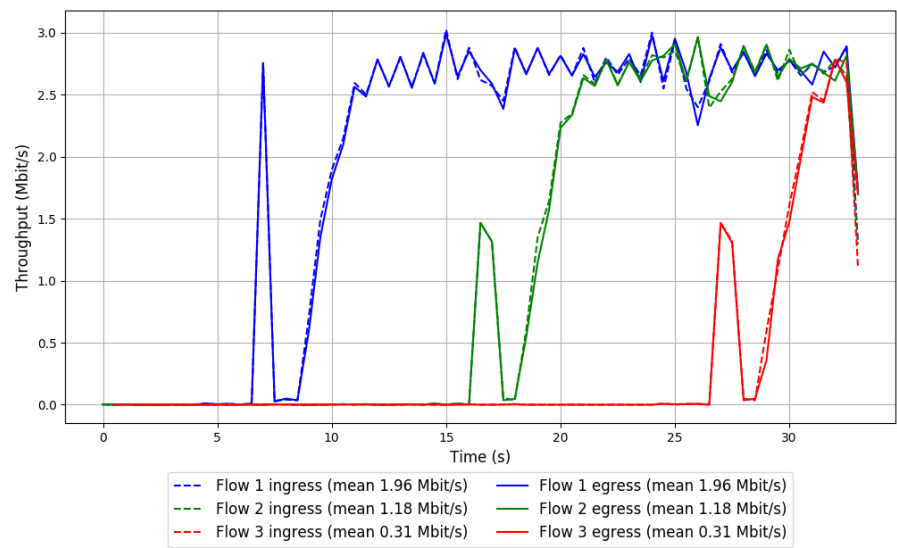


Run 9: Statistics of WebRTC media

Start at: 2017-12-06 01:12:55
End at: 2017-12-06 01:13:25
Local clock offset: 0.445 ms
Remote clock offset: -3.513 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 84.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 84.301 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 82.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 83.158 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-06 01:32:44

End at: 2017-12-06 01:33:14

Local clock offset: 0.568 ms

Remote clock offset: 2.121 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 88.794 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 88.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 88.789 ms

Loss rate: 0.00%

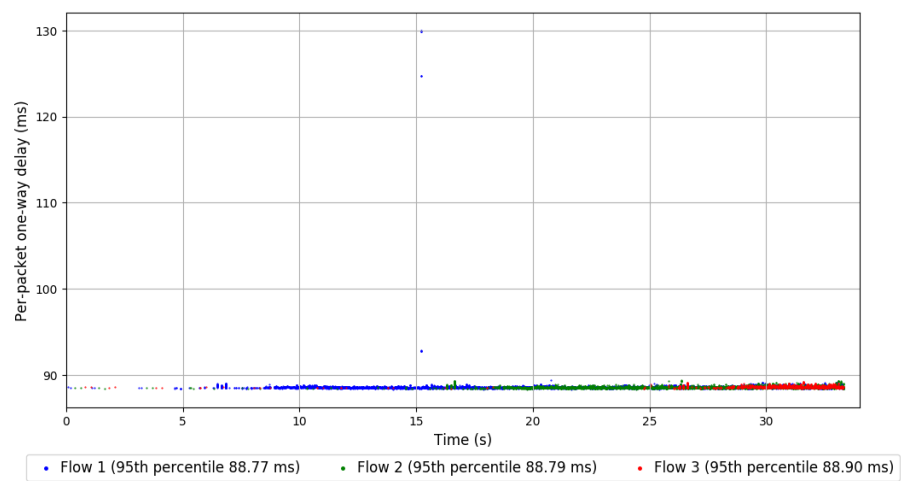
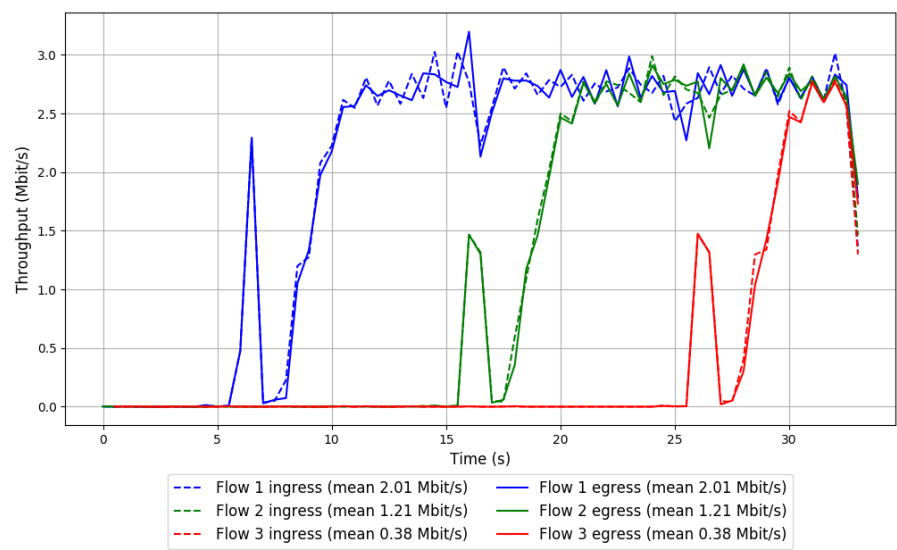
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 88.898 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-05 22:31:47

End at: 2017-12-05 22:32:17

Local clock offset: -2.207 ms

Remote clock offset: 1.684 ms

Below is generated by plot.py at 2017-12-06 02:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 107.876 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 88.335 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 108.312 ms

Loss rate: 0.33%

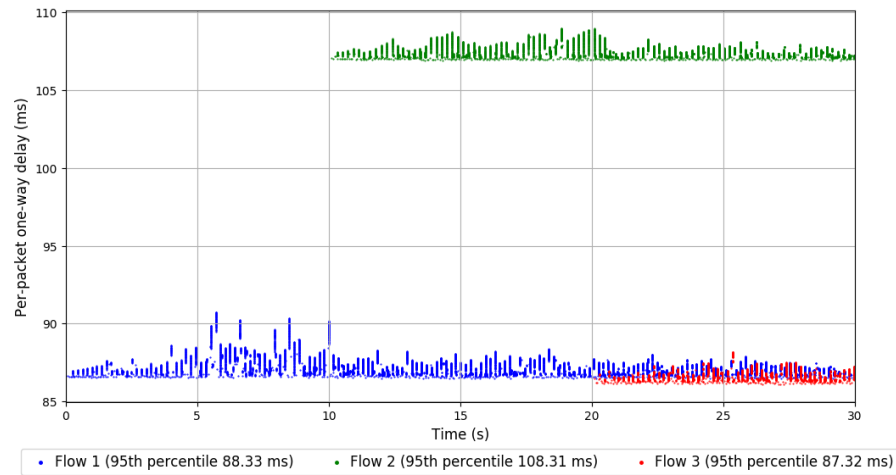
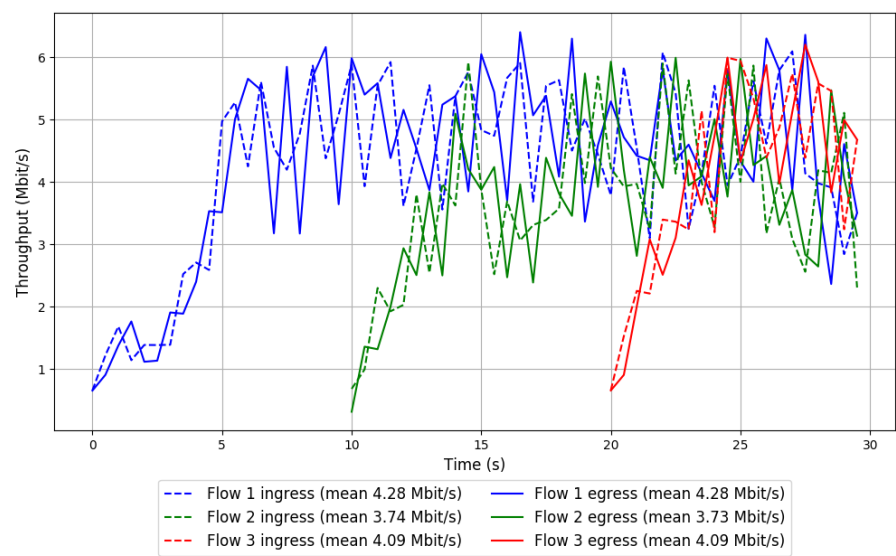
-- Flow 3:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 87.323 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

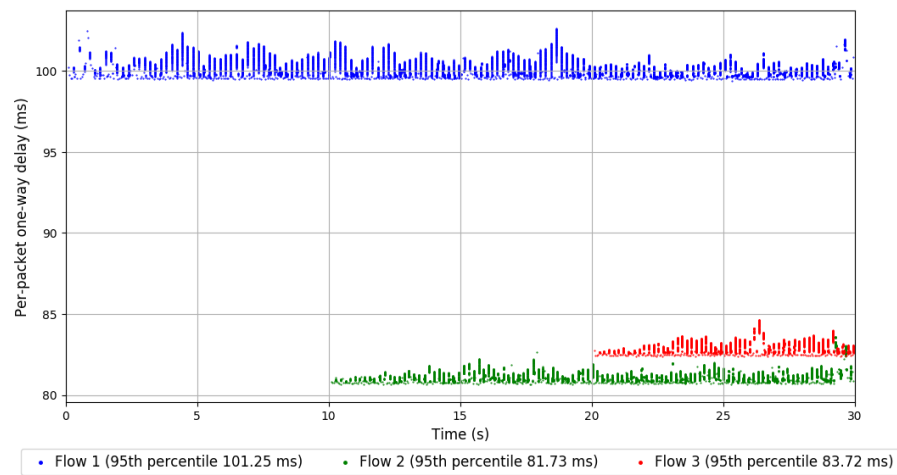
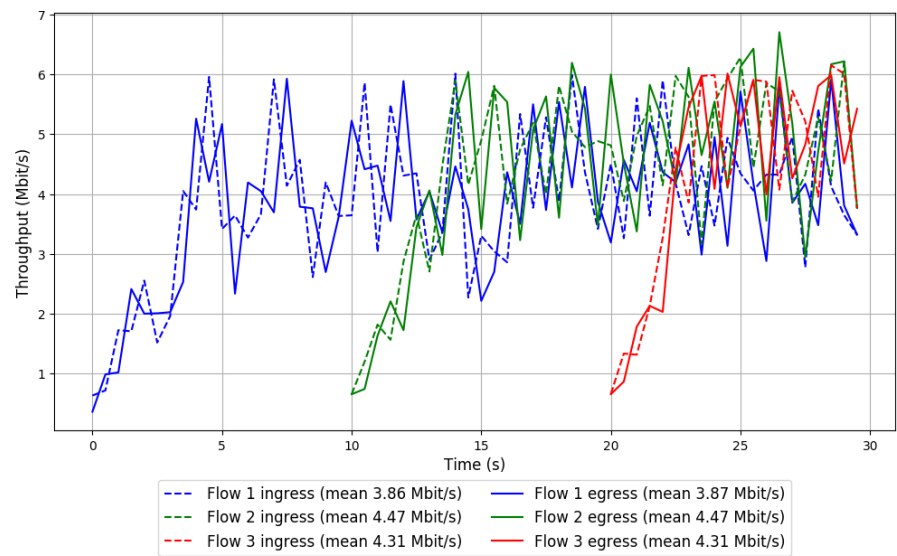


Run 2: Statistics of Sprout

Start at: 2017-12-05 22:51:47
End at: 2017-12-05 22:52:17
Local clock offset: -3.099 ms
Remote clock offset: -3.608 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 100.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 101.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 81.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 83.723 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

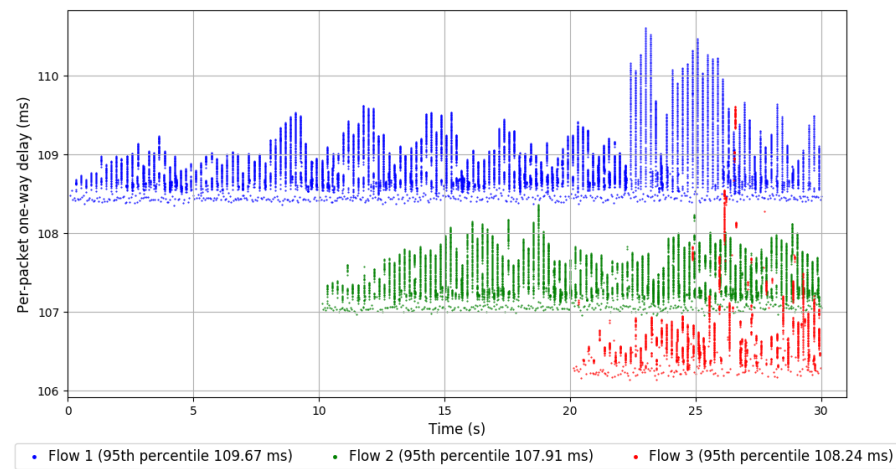
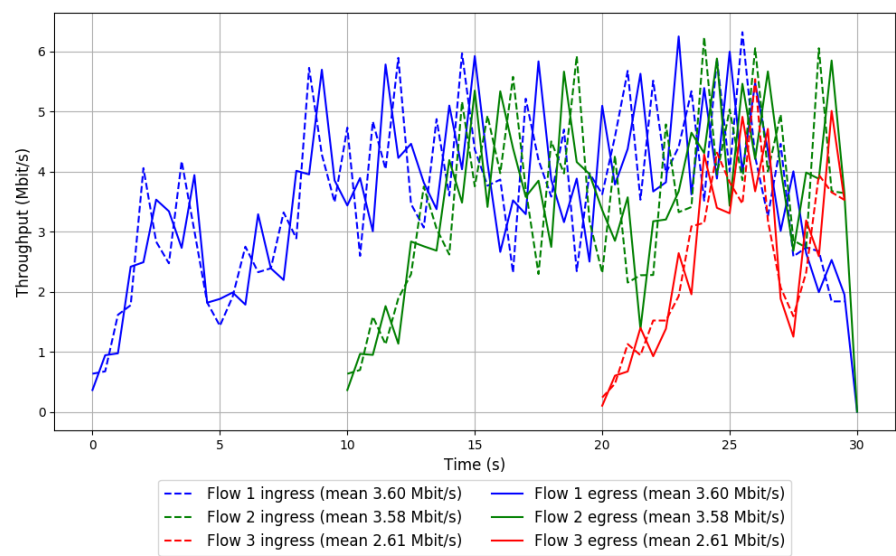


Run 3: Statistics of Sprout

Start at: 2017-12-05 23:12:02
End at: 2017-12-05 23:12:32
Local clock offset: -2.639 ms
Remote clock offset: 2.434 ms

```
# Below is generated by plot.py at 2017-12-06 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 109.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 109.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 107.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 108.243 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link

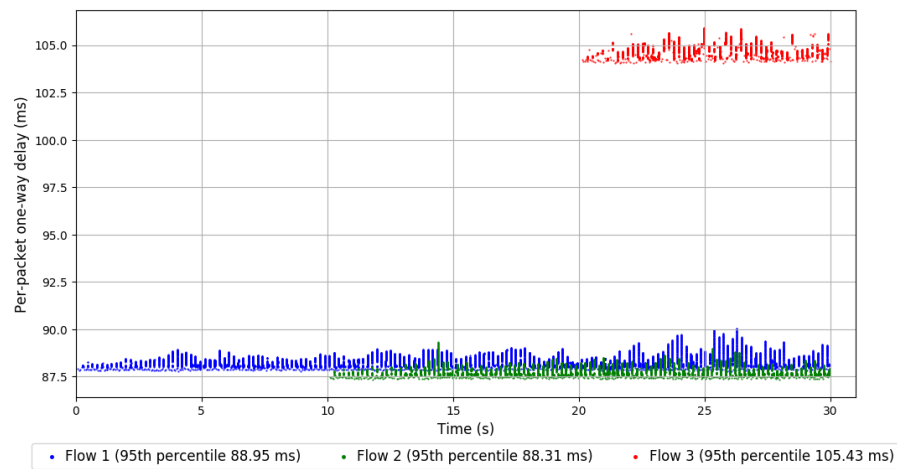
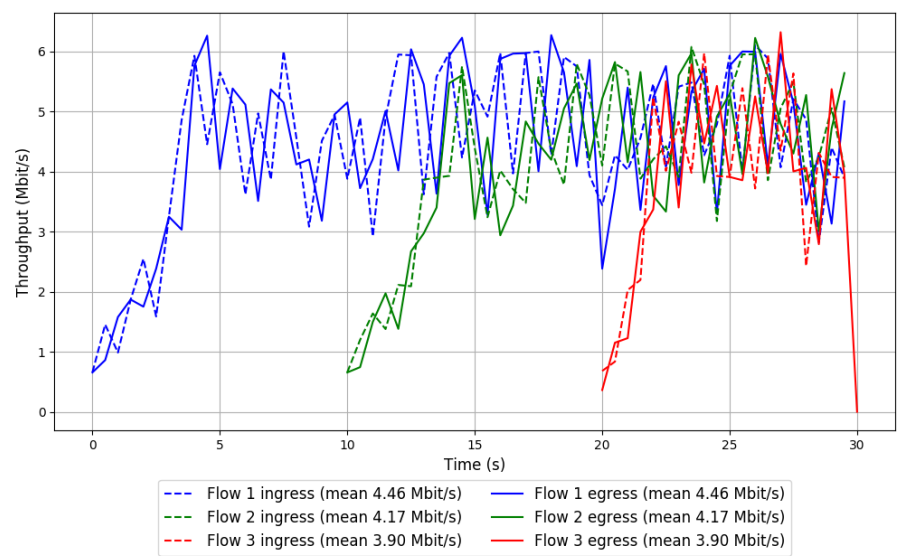


Run 4: Statistics of Sprout

Start at: 2017-12-05 23:32:35
End at: 2017-12-05 23:33:05
Local clock offset: -2.032 ms
Remote clock offset: 0.856 ms

```
# Below is generated by plot.py at 2017-12-06 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 104.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 88.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 88.305 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 105.432 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

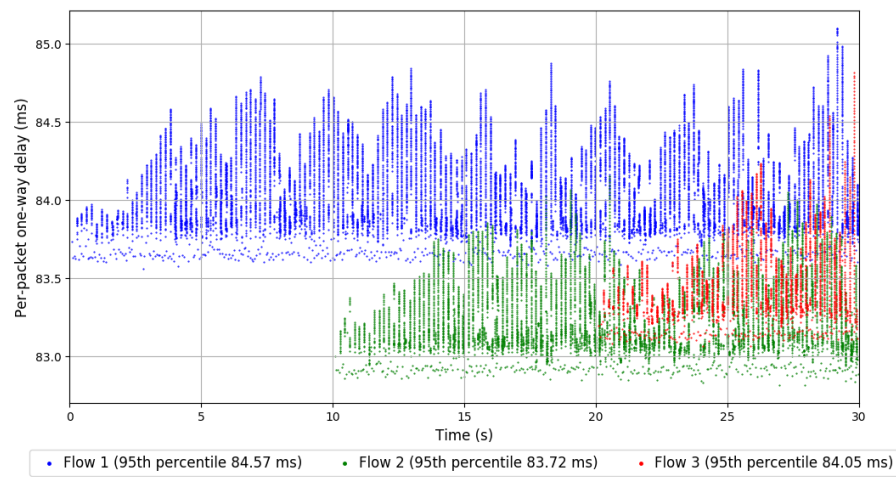
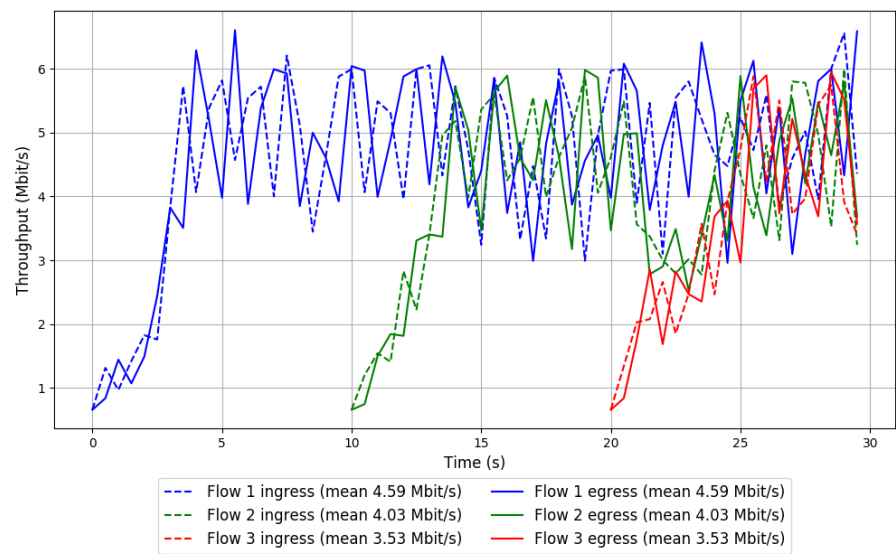


Run 5: Statistics of Sprout

Start at: 2017-12-05 23:52:58
End at: 2017-12-05 23:53:28
Local clock offset: -1.422 ms
Remote clock offset: -3.745 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 84.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 84.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 83.720 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 84.046 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

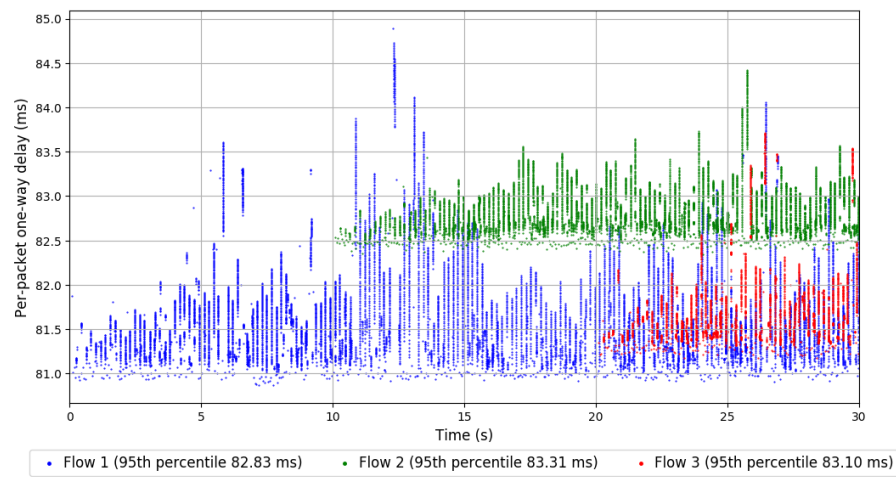
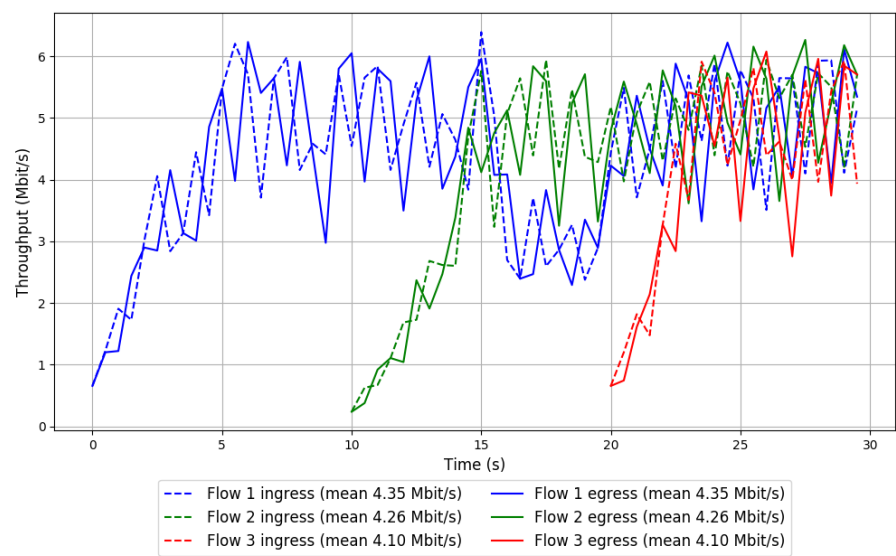


Run 6: Statistics of Sprout

Start at: 2017-12-06 00:13:26
End at: 2017-12-06 00:13:56
Local clock offset: -0.934 ms
Remote clock offset: -4.109 ms

```
# Below is generated by plot.py at 2017-12-06 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 83.203 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 82.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 83.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 83.097 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

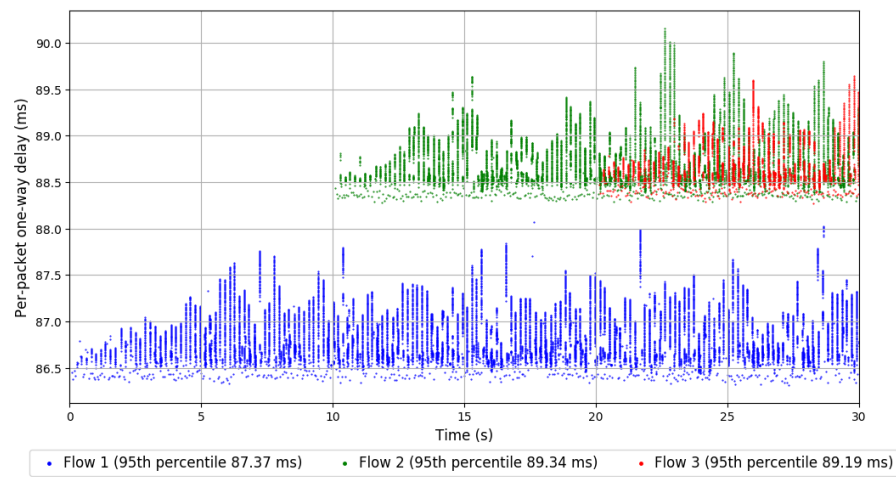
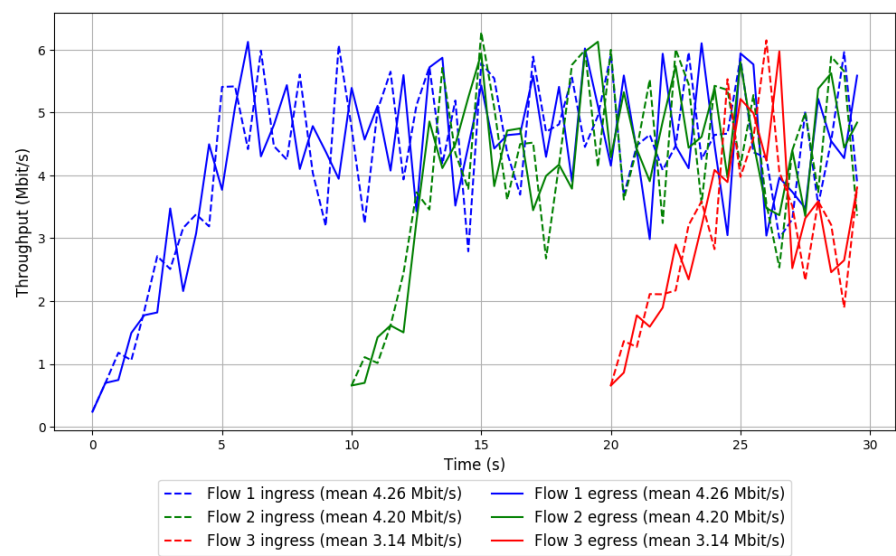


Run 7: Statistics of Sprout

Start at: 2017-12-06 00:33:44
End at: 2017-12-06 00:34:14
Local clock offset: -0.514 ms
Remote clock offset: 1.446 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 89.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 89.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 89.195 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

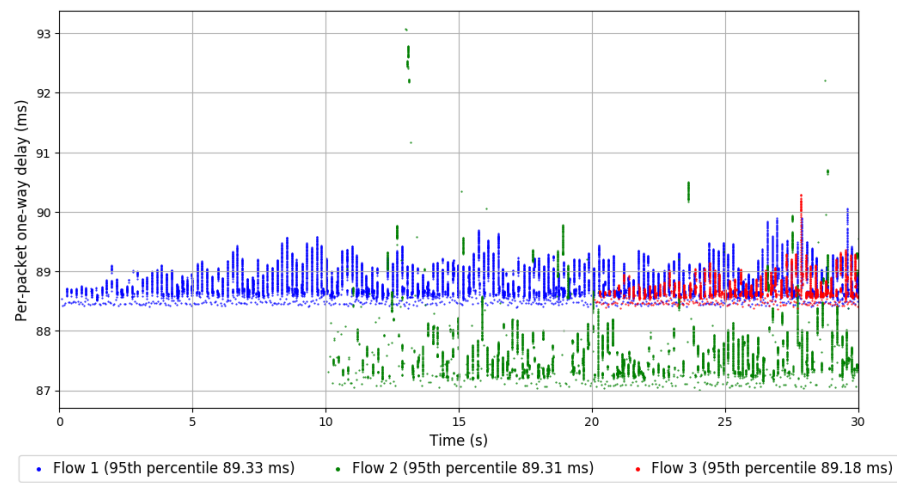
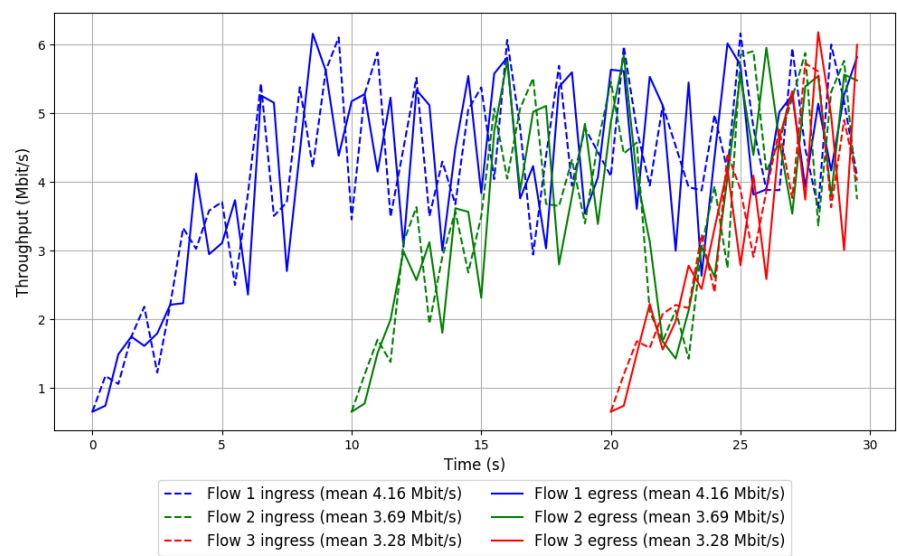


Run 8: Statistics of Sprout

Start at: 2017-12-06 00:53:56
End at: 2017-12-06 00:54:26
Local clock offset: -0.061 ms
Remote clock offset: 1.529 ms

```
# Below is generated by plot.py at 2017-12-06 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 89.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 89.334 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 89.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 89.181 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

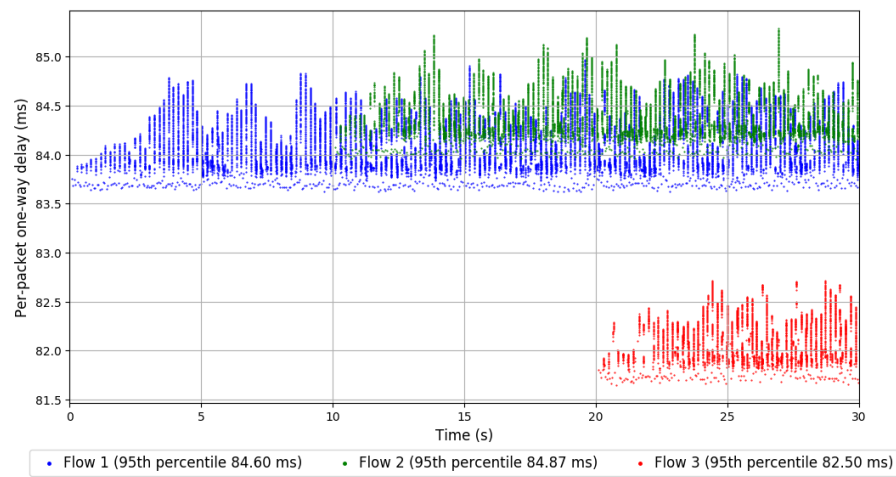
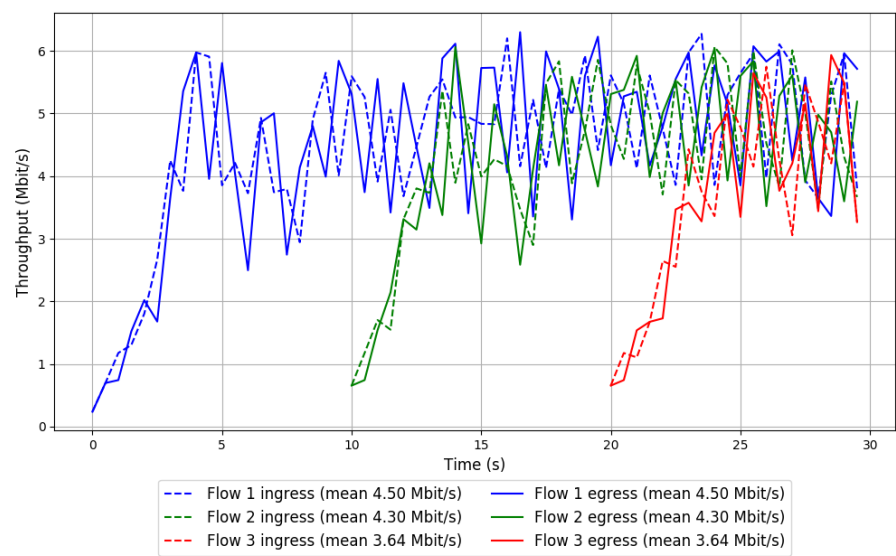


Run 9: Statistics of Sprout

Start at: 2017-12-06 01:14:08
End at: 2017-12-06 01:14:38
Local clock offset: 0.404 ms
Remote clock offset: -3.325 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 84.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 84.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 84.873 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 82.498 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

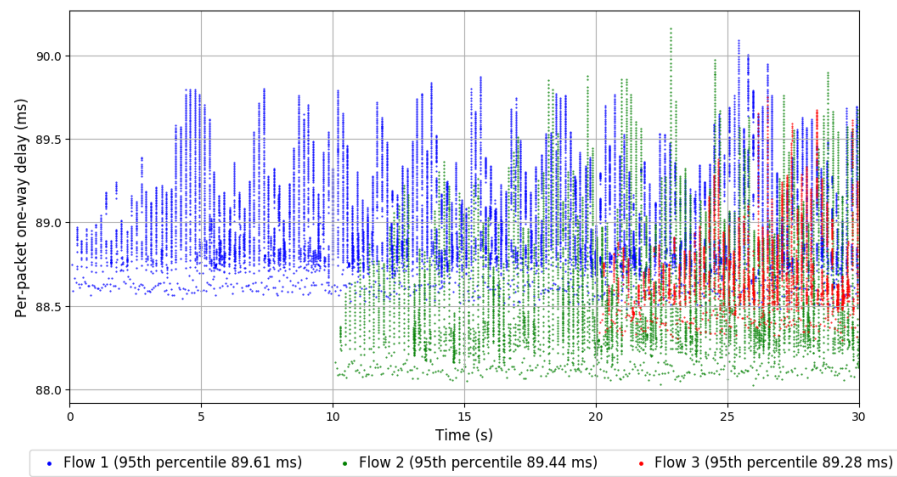
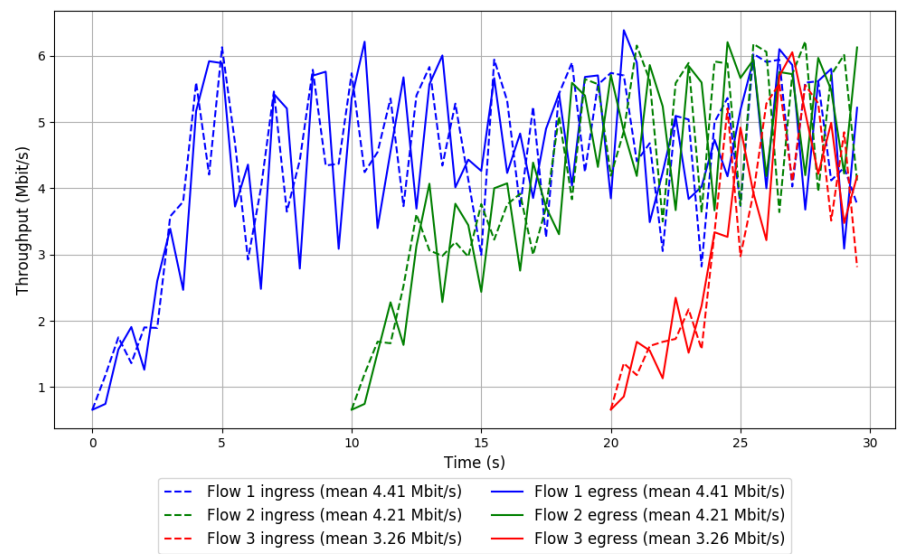


Run 10: Statistics of Sprout

Start at: 2017-12-06 01:33:58
End at: 2017-12-06 01:34:28
Local clock offset: 0.651 ms
Remote clock offset: 2.179 ms

Below is generated by plot.py at 2017-12-06 02:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 89.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 89.607 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 89.445 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 89.275 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

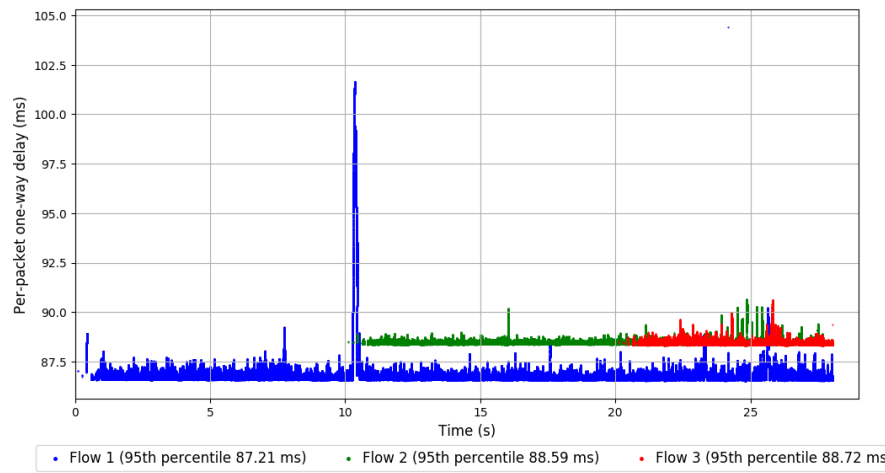
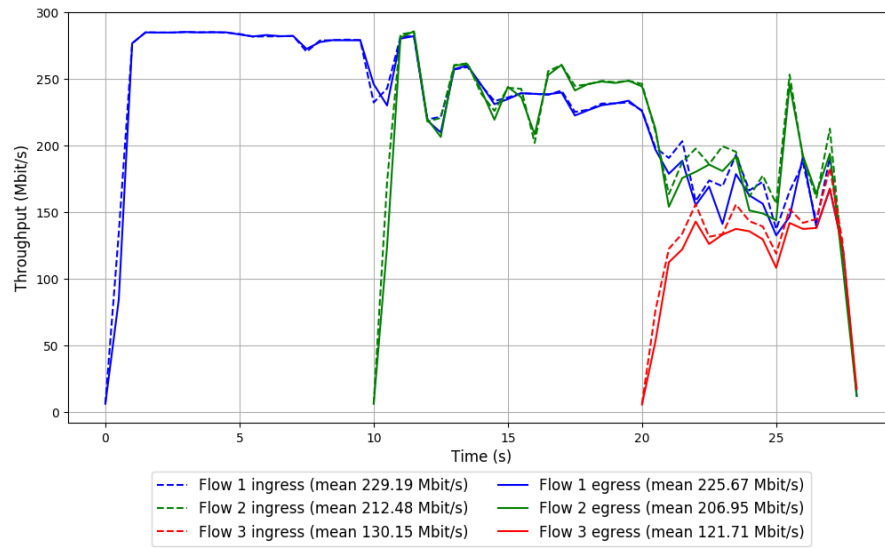


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 22:33:02
End at: 2017-12-05 22:33:32
Local clock offset: -2.21 ms
Remote clock offset: 1.907 ms

# Below is generated by plot.py at 2017-12-06 03:03:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.81 Mbit/s
95th percentile per-packet one-way delay: 88.528 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 225.67 Mbit/s
95th percentile per-packet one-way delay: 87.210 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 206.95 Mbit/s
95th percentile per-packet one-way delay: 88.592 ms
Loss rate: 2.60%
-- Flow 3:
Average throughput: 121.71 Mbit/s
95th percentile per-packet one-way delay: 88.724 ms
Loss rate: 6.47%
```


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

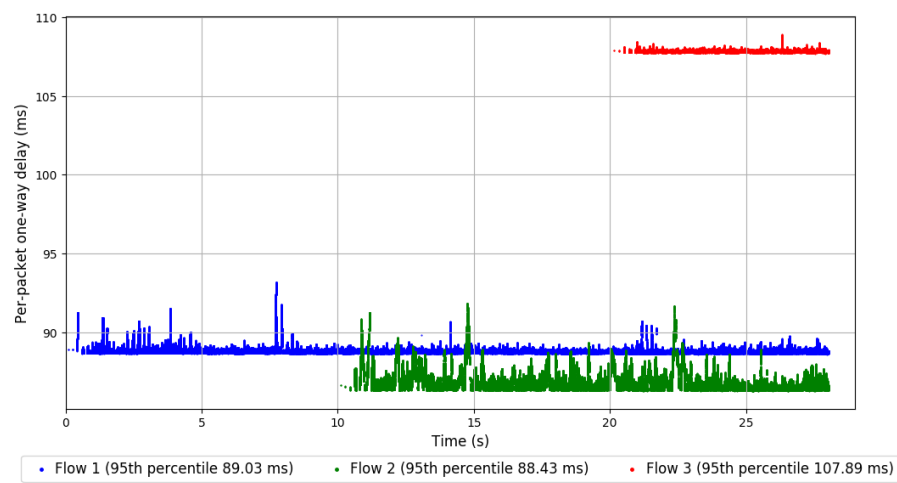
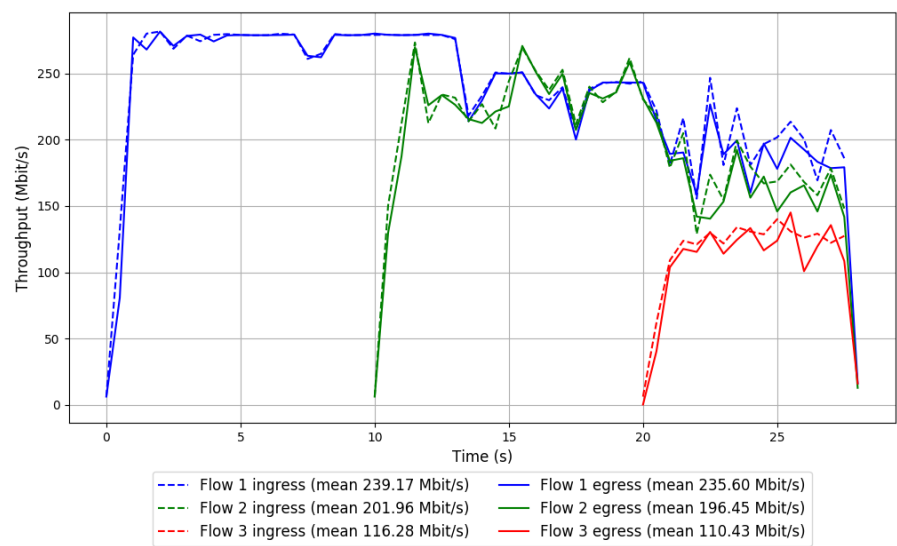


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 22:53:01
End at: 2017-12-05 22:53:31
Local clock offset: -2.995 ms
Remote clock offset: 1.952 ms

# Below is generated by plot.py at 2017-12-06 03:03:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.63 Mbit/s
95th percentile per-packet one-way delay: 107.811 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 235.60 Mbit/s
95th percentile per-packet one-way delay: 89.030 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 196.45 Mbit/s
95th percentile per-packet one-way delay: 88.433 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 110.43 Mbit/s
95th percentile per-packet one-way delay: 107.885 ms
Loss rate: 5.28%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 23:13:18

End at: 2017-12-05 23:13:48

Local clock offset: -2.582 ms

Remote clock offset: -2.44 ms

Below is generated by plot.py at 2017-12-06 03:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.90 Mbit/s

95th percentile per-packet one-way delay: 103.555 ms

Loss rate: 2.67%

-- Flow 1:

Average throughput: 222.00 Mbit/s

95th percentile per-packet one-way delay: 82.975 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 196.16 Mbit/s

95th percentile per-packet one-way delay: 102.162 ms

Loss rate: 3.05%

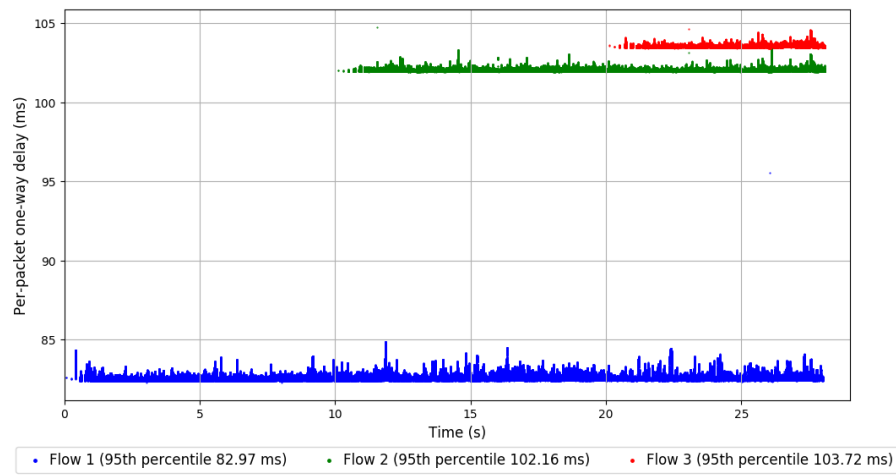
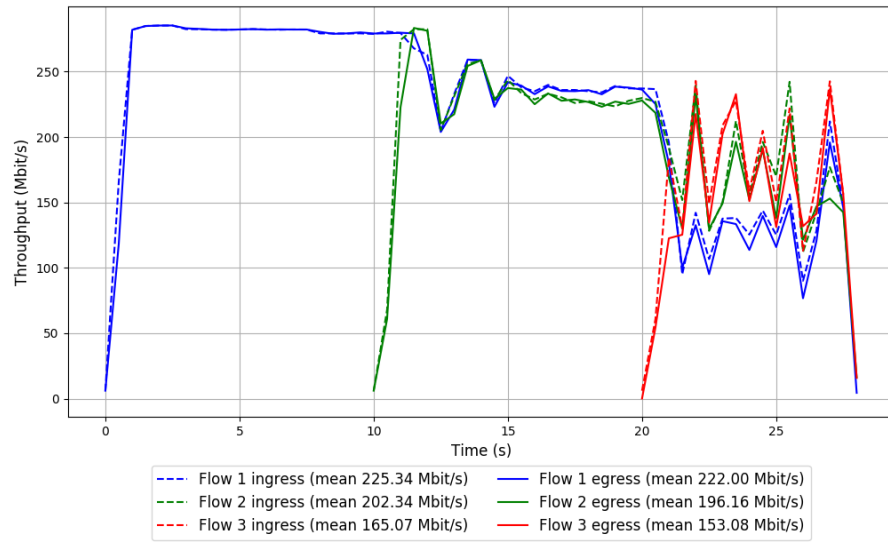
-- Flow 3:

Average throughput: 153.08 Mbit/s

95th percentile per-packet one-way delay: 103.722 ms

Loss rate: 7.26%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 23:33:50

End at: 2017-12-05 23:34:20

Local clock offset: -2.02 ms

Remote clock offset: 2.689 ms

Below is generated by plot.py at 2017-12-06 03:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.37 Mbit/s

95th percentile per-packet one-way delay: 107.805 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 224.67 Mbit/s

95th percentile per-packet one-way delay: 107.823 ms

Loss rate: 1.50%

-- Flow 2:

Average throughput: 185.67 Mbit/s

95th percentile per-packet one-way delay: 107.203 ms

Loss rate: 2.45%

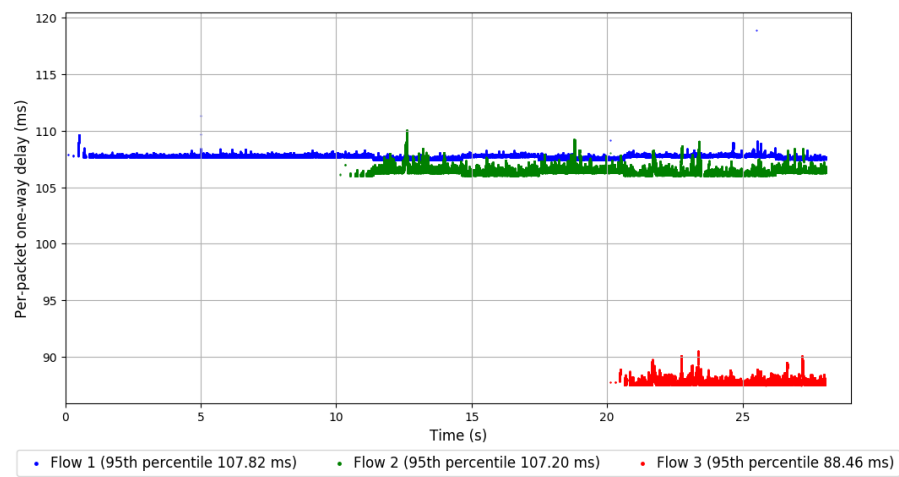
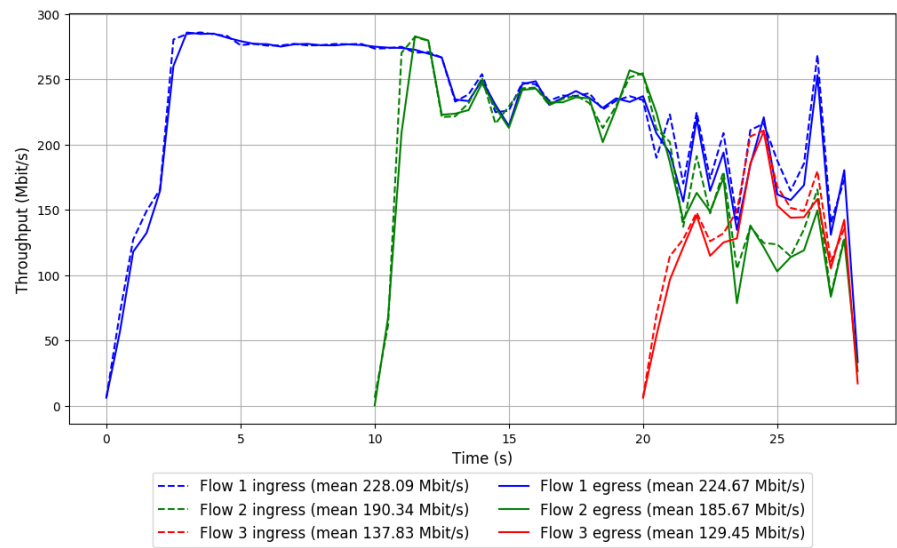
-- Flow 3:

Average throughput: 129.45 Mbit/s

95th percentile per-packet one-way delay: 88.462 ms

Loss rate: 6.08%

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

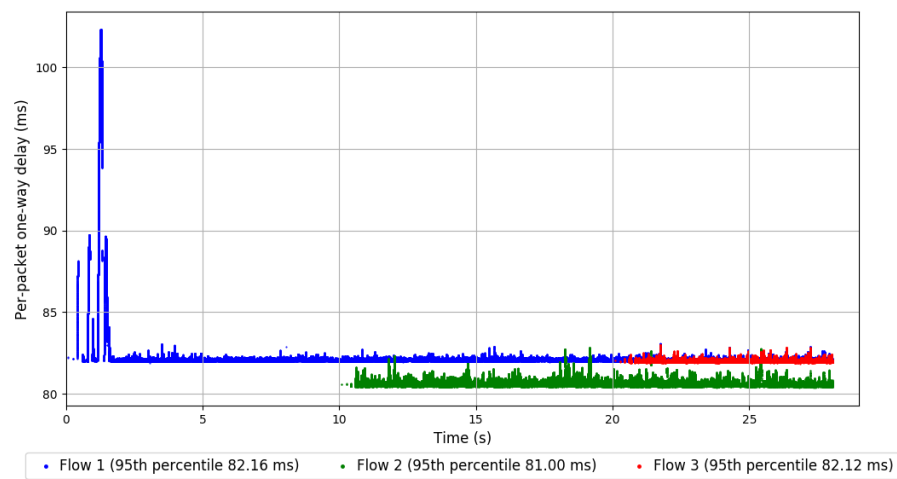
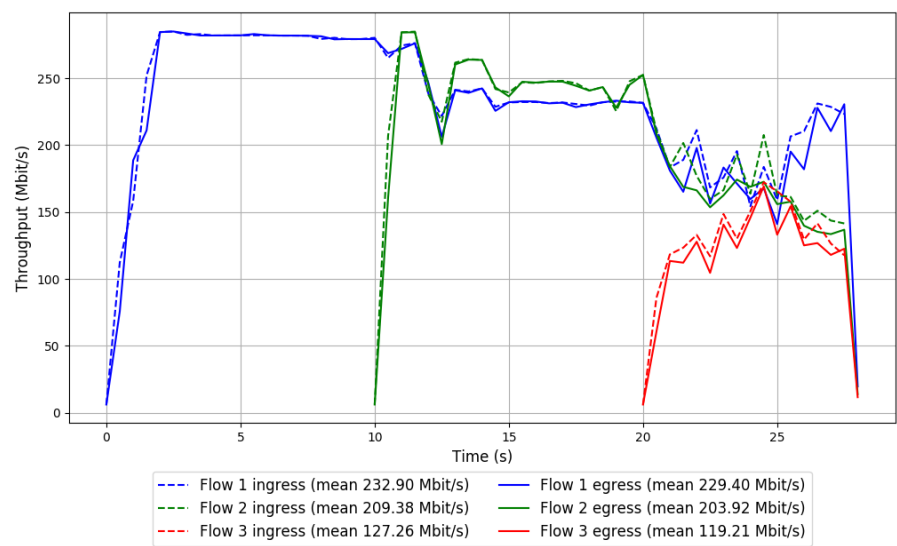


Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 23:54:12
End at: 2017-12-05 23:54:42
Local clock offset: -1.425 ms
Remote clock offset: -4.637 ms

Below is generated by plot.py at 2017-12-06 03:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 394.20 Mbit/s
95th percentile per-packet one-way delay: 82.126 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 229.40 Mbit/s
95th percentile per-packet one-way delay: 82.157 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 203.92 Mbit/s
95th percentile per-packet one-way delay: 80.998 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 119.21 Mbit/s
95th percentile per-packet one-way delay: 82.123 ms
Loss rate: 6.36%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 00:14:40

End at: 2017-12-06 00:15:10

Local clock offset: -0.91 ms

Remote clock offset: 1.512 ms

Below is generated by plot.py at 2017-12-06 03:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.59 Mbit/s

95th percentile per-packet one-way delay: 89.383 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 202.92 Mbit/s

95th percentile per-packet one-way delay: 89.956 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 219.08 Mbit/s

95th percentile per-packet one-way delay: 88.298 ms

Loss rate: 1.86%

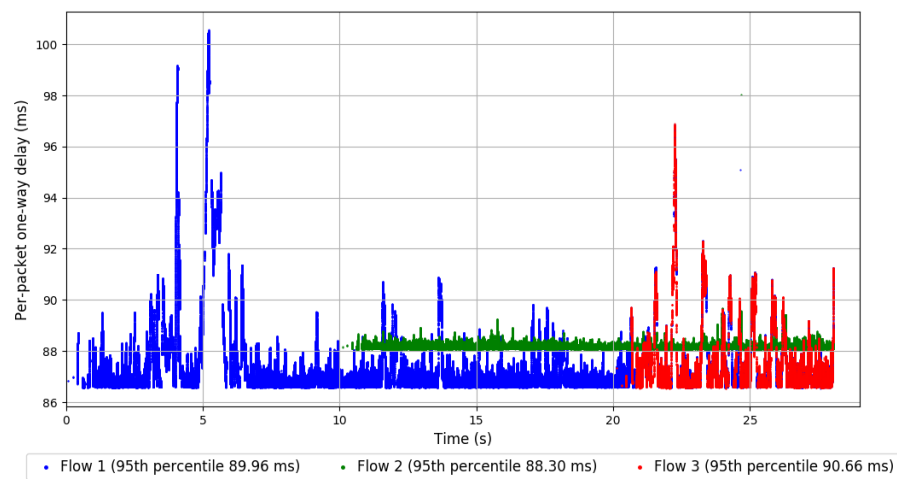
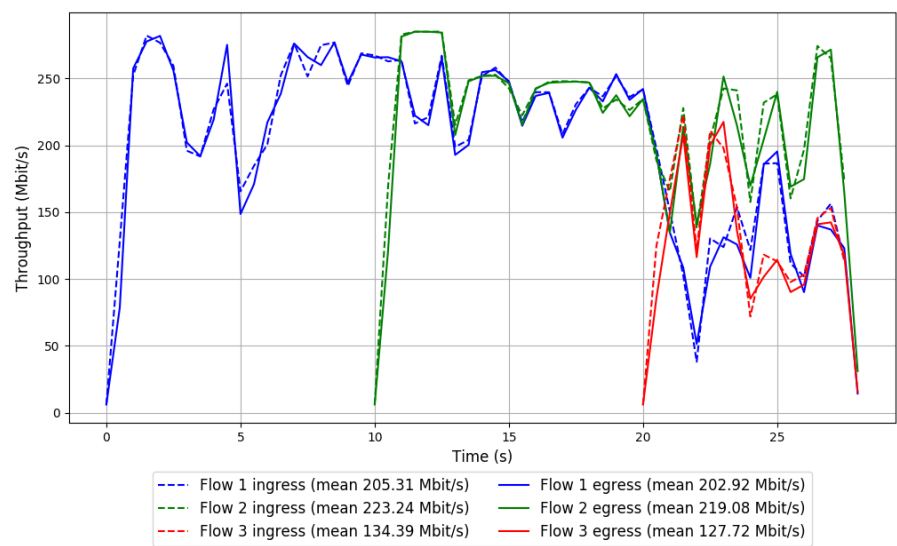
-- Flow 3:

Average throughput: 127.72 Mbit/s

95th percentile per-packet one-way delay: 90.663 ms

Loss rate: 4.95%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 00:34:58

End at: 2017-12-06 00:35:28

Local clock offset: -0.484 ms

Remote clock offset: 1.335 ms

Below is generated by plot.py at 2017-12-06 03:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.28 Mbit/s

95th percentile per-packet one-way delay: 102.718 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 166.55 Mbit/s

95th percentile per-packet one-way delay: 102.968 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 164.76 Mbit/s

95th percentile per-packet one-way delay: 101.080 ms

Loss rate: 0.06%

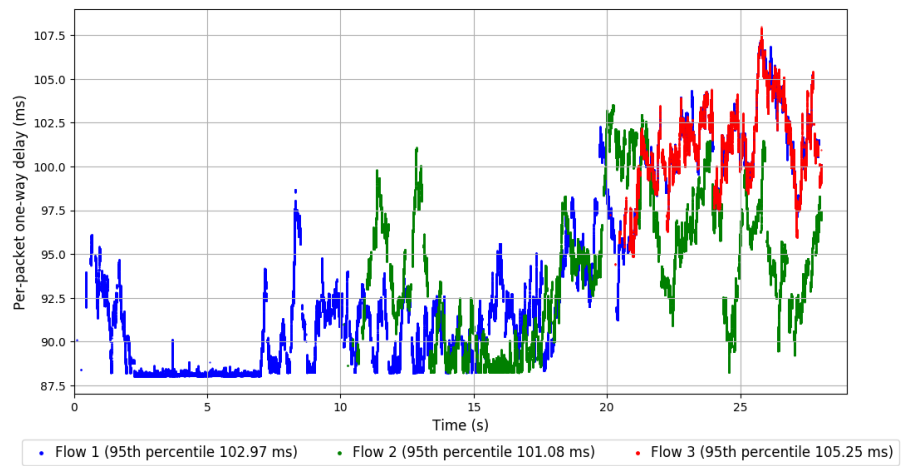
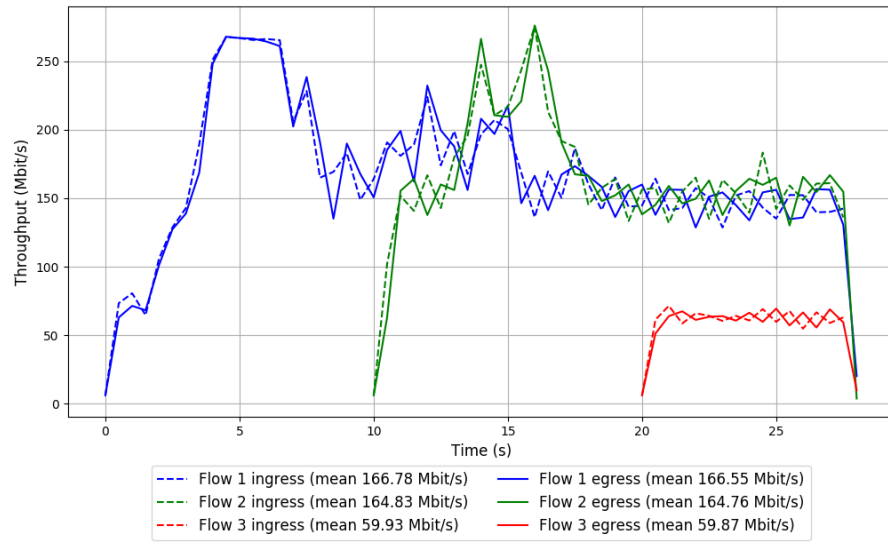
-- Flow 3:

Average throughput: 59.87 Mbit/s

95th percentile per-packet one-way delay: 105.254 ms

Loss rate: 0.21%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 00:55:10

End at: 2017-12-06 00:55:40

Local clock offset: -0.027 ms

Remote clock offset: 2.415 ms

Below is generated by plot.py at 2017-12-06 03:04:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.94 Mbit/s

95th percentile per-packet one-way delay: 90.207 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 229.11 Mbit/s

95th percentile per-packet one-way delay: 89.649 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 191.40 Mbit/s

95th percentile per-packet one-way delay: 90.559 ms

Loss rate: 2.13%

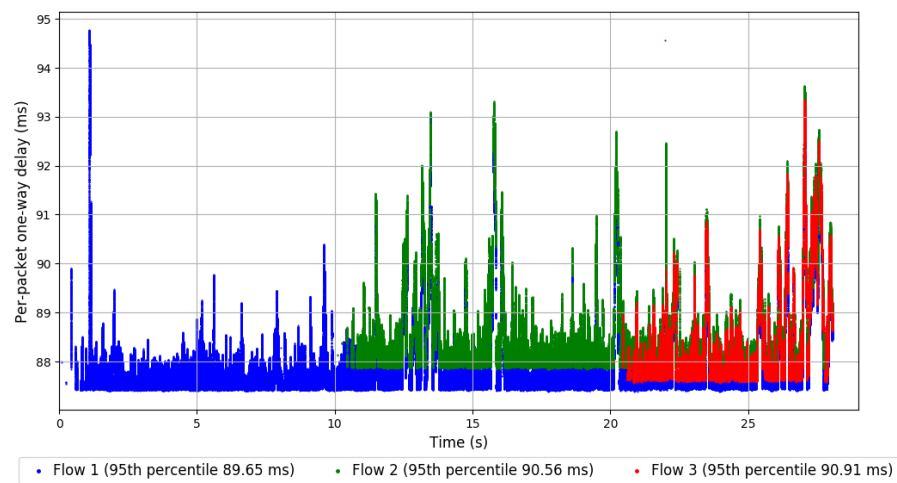
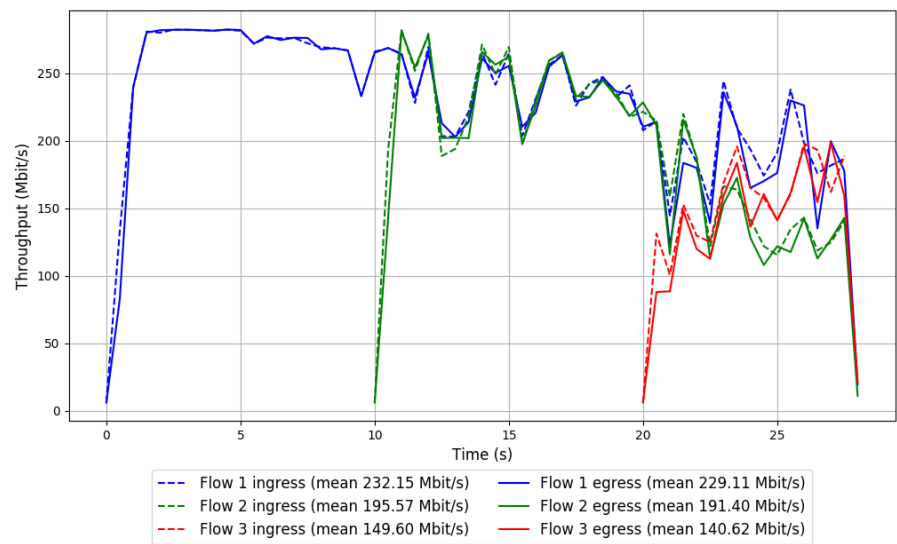
-- Flow 3:

Average throughput: 140.62 Mbit/s

95th percentile per-packet one-way delay: 90.910 ms

Loss rate: 6.00%

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



Run 9: Statistics of TaoVA-100x

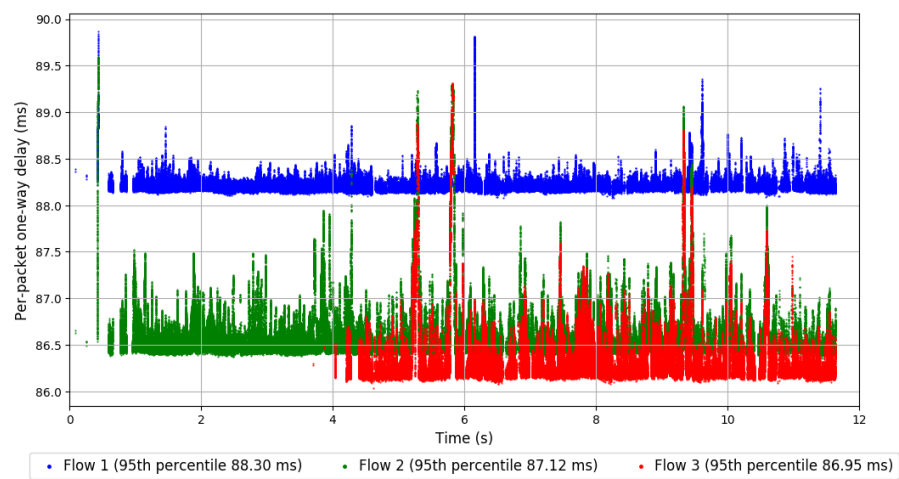
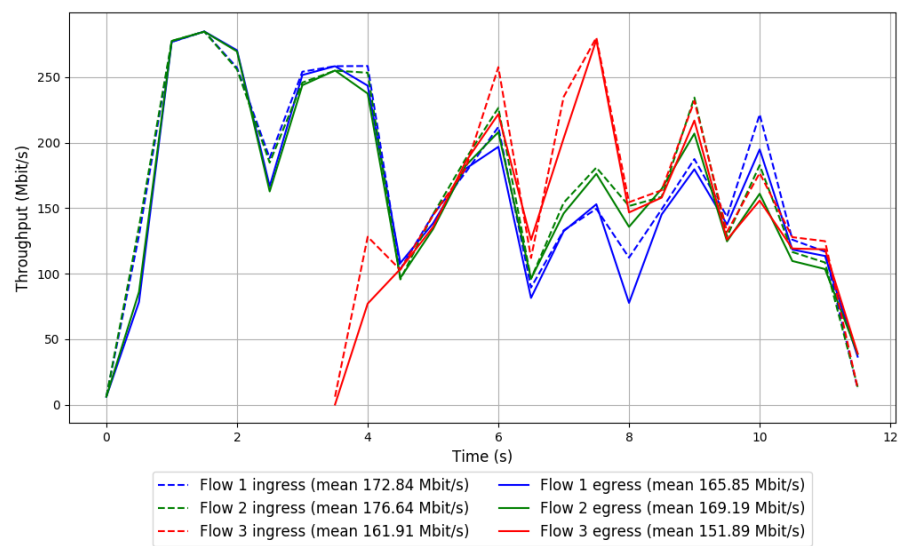
Start at: 2017-12-06 01:15:23

End at: 2017-12-06 01:15:53

Local clock offset: 0.455 ms

Remote clock offset: 1.394 ms

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 01:35:13

End at: 2017-12-06 01:35:43

Local clock offset: 0.619 ms

Remote clock offset: 1.38 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.15 Mbit/s

95th percentile per-packet one-way delay: 87.937 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 222.35 Mbit/s

95th percentile per-packet one-way delay: 86.420 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 206.16 Mbit/s

95th percentile per-packet one-way delay: 87.985 ms

Loss rate: 2.69%

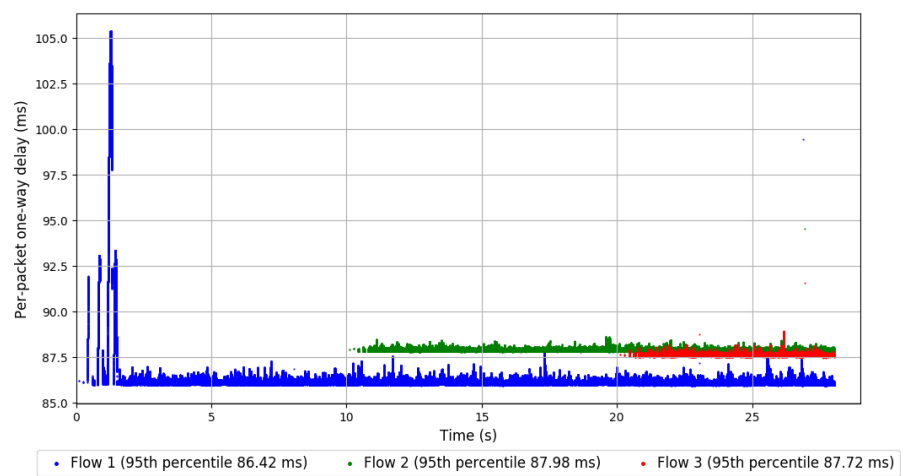
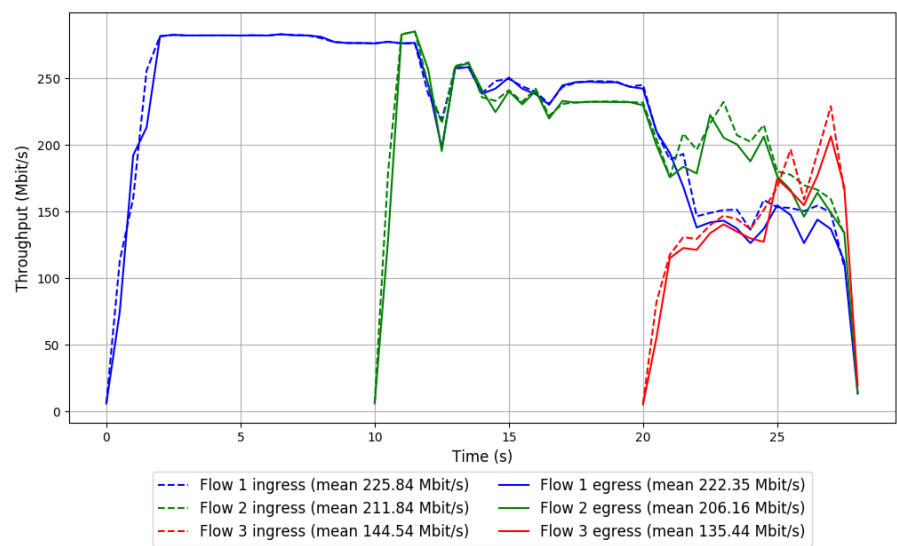
-- Flow 3:

Average throughput: 135.44 Mbit/s

95th percentile per-packet one-way delay: 87.725 ms

Loss rate: 6.29%

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

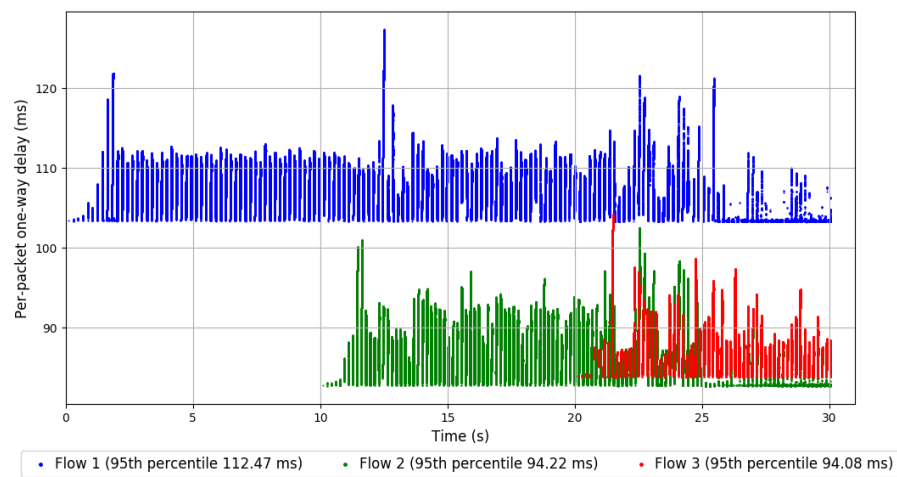
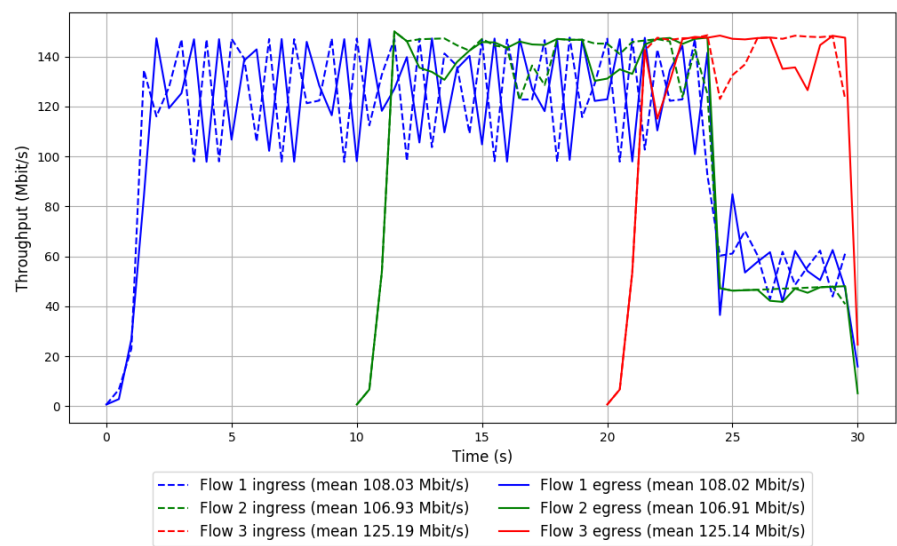


Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 22:19:04
End at: 2017-12-05 22:19:34
Local clock offset: -1.722 ms
Remote clock offset: -3.821 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 220.84 Mbit/s
95th percentile per-packet one-way delay: 111.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.02 Mbit/s
95th percentile per-packet one-way delay: 112.472 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 106.91 Mbit/s
95th percentile per-packet one-way delay: 94.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.14 Mbit/s
95th percentile per-packet one-way delay: 94.076 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 22:39:09

End at: 2017-12-05 22:39:39

Local clock offset: -2.416 ms

Remote clock offset: 2.881 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.65 Mbit/s

95th percentile per-packet one-way delay: 117.287 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 103.52 Mbit/s

95th percentile per-packet one-way delay: 96.080 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 120.302 ms

Loss rate: 0.11%

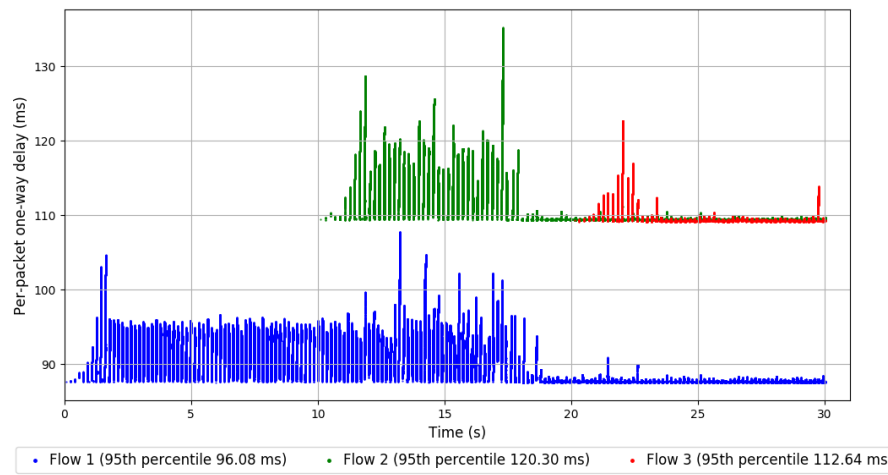
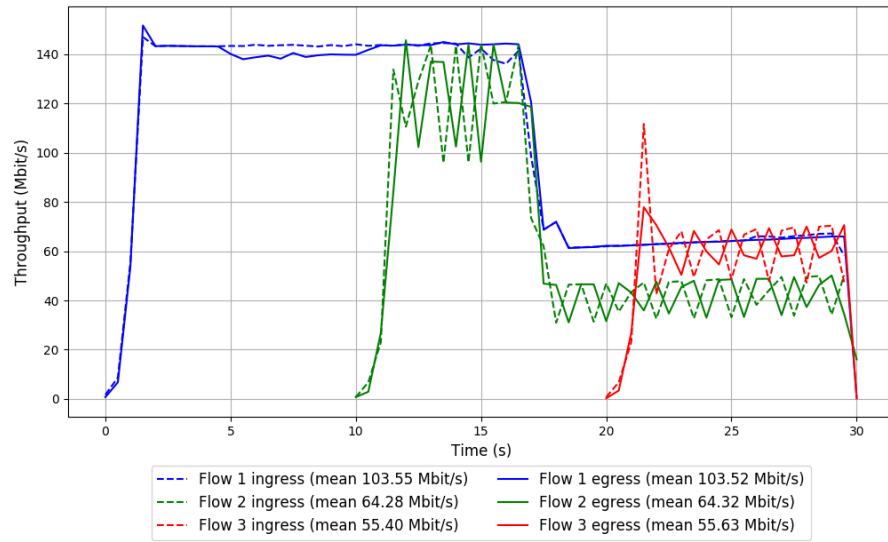
-- Flow 3:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 112.636 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

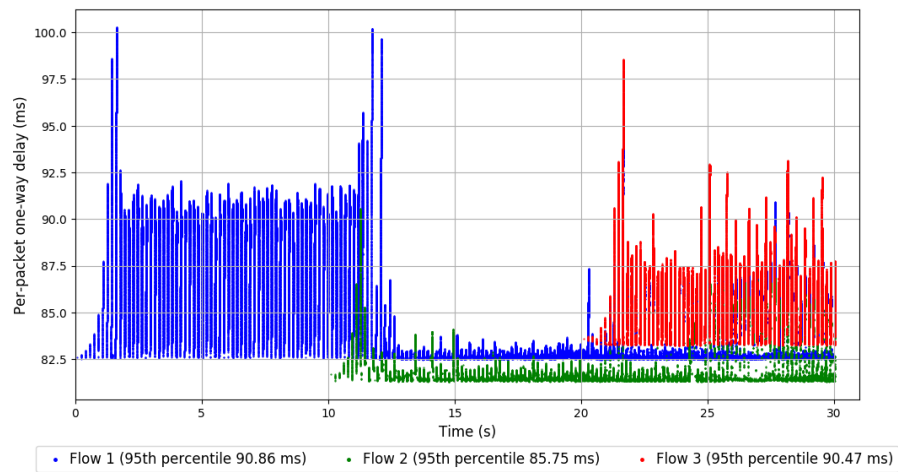
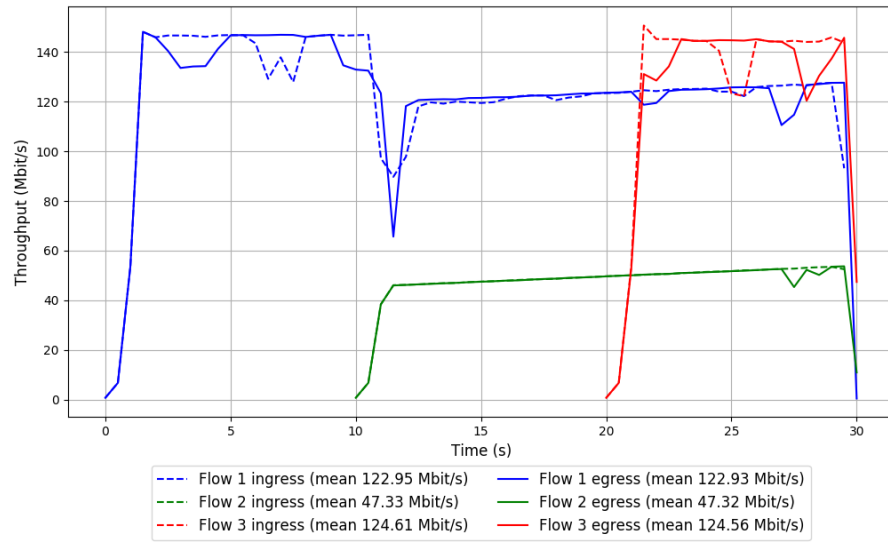


Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 22:59:15
End at: 2017-12-05 22:59:45
Local clock offset: -3.103 ms
Remote clock offset: -2.715 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 195.79 Mbit/s
95th percentile per-packet one-way delay: 90.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.93 Mbit/s
95th percentile per-packet one-way delay: 90.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 85.749 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.56 Mbit/s
95th percentile per-packet one-way delay: 90.470 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 23:19:31

End at: 2017-12-05 23:20:01

Local clock offset: -2.342 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.61 Mbit/s

95th percentile per-packet one-way delay: 114.734 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 115.673 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 95.750 ms

Loss rate: 0.02%

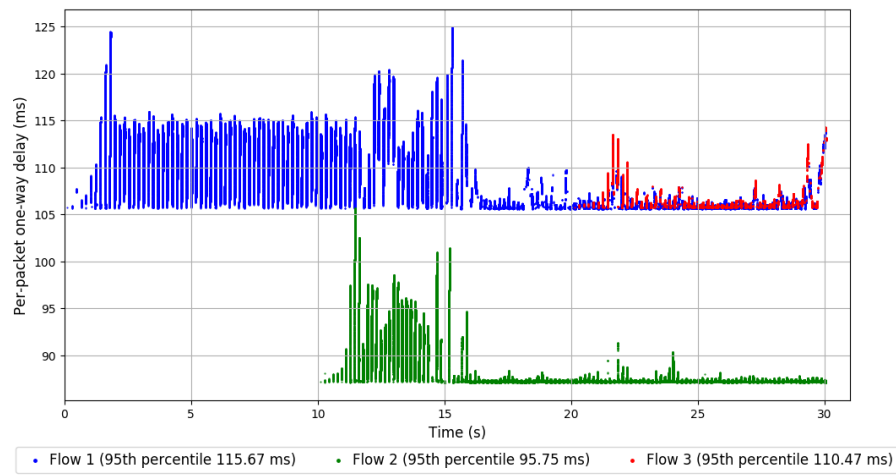
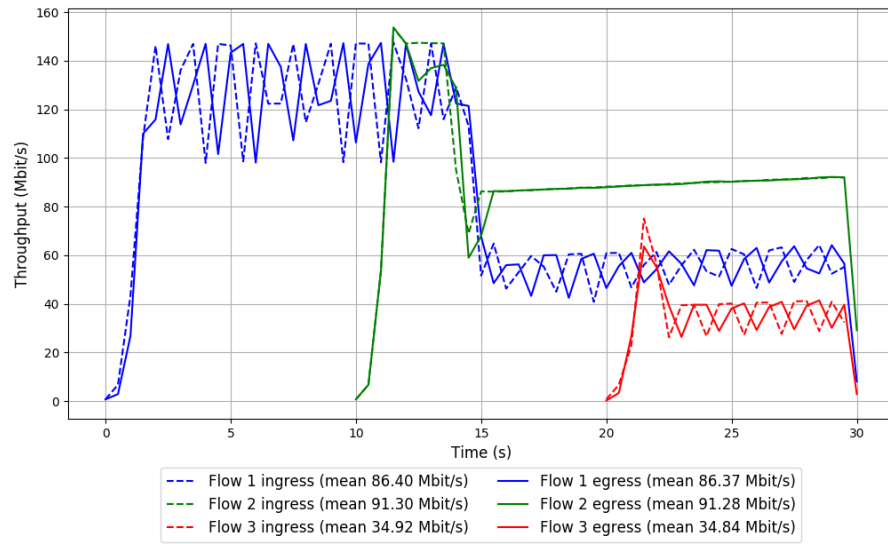
-- Flow 3:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 110.473 ms

Loss rate: 0.23%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 23:40:19

End at: 2017-12-05 23:40:49

Local clock offset: -1.777 ms

Remote clock offset: 2.382 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.53 Mbit/s

95th percentile per-packet one-way delay: 113.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.67 Mbit/s

95th percentile per-packet one-way delay: 95.285 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 107.11 Mbit/s

95th percentile per-packet one-way delay: 115.099 ms

Loss rate: 0.00%

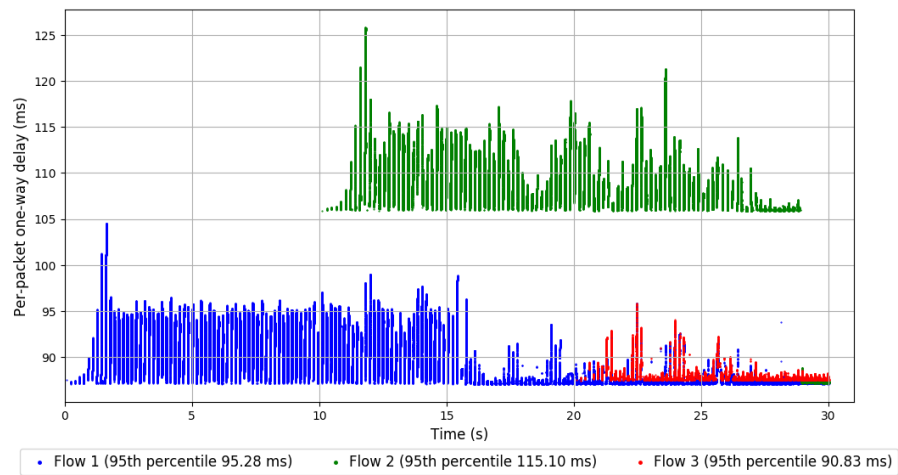
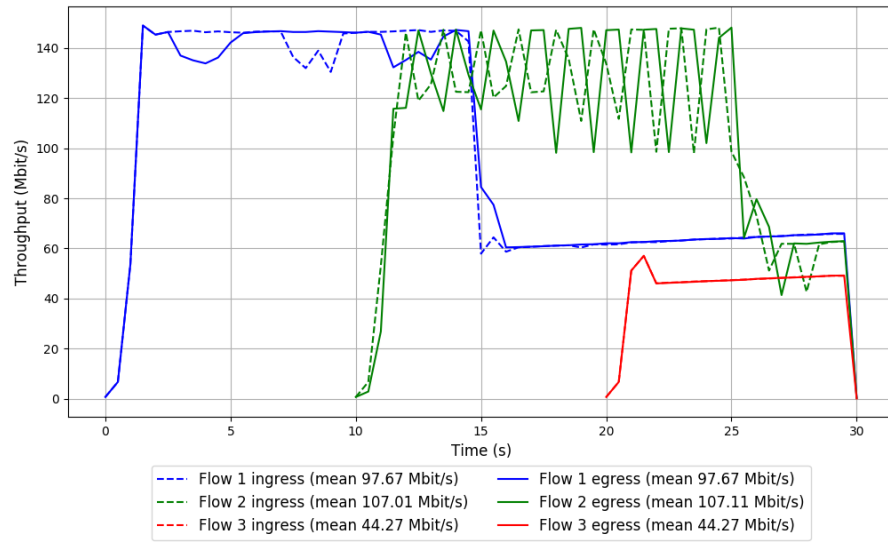
-- Flow 3:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 90.829 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 00:00:23

End at: 2017-12-06 00:00:53

Local clock offset: -1.206 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 95.772 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.17 Mbit/s

95th percentile per-packet one-way delay: 95.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.01 Mbit/s

95th percentile per-packet one-way delay: 96.098 ms

Loss rate: 0.01%

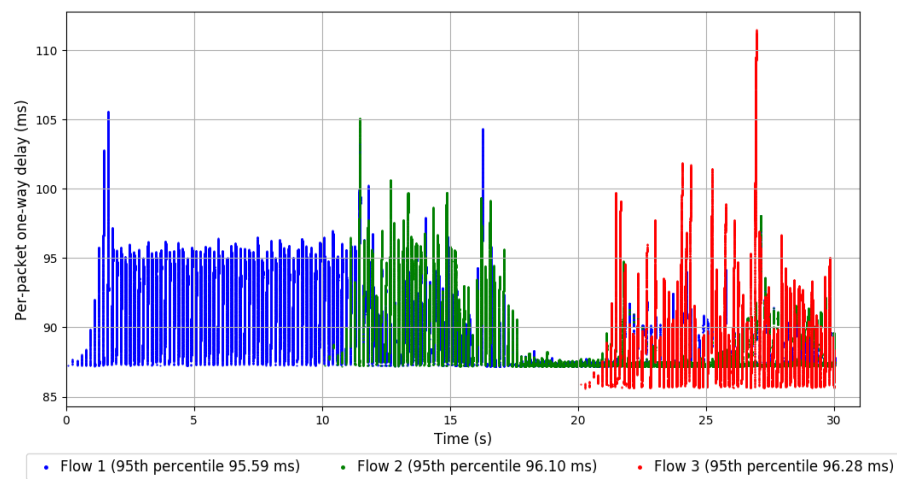
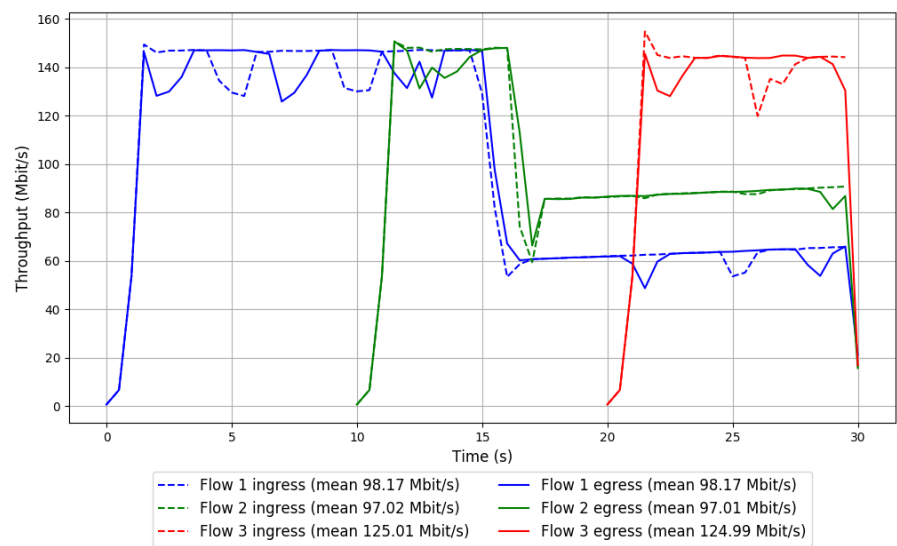
-- Flow 3:

Average throughput: 124.99 Mbit/s

95th percentile per-packet one-way delay: 96.276 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 00:21:02

End at: 2017-12-06 00:21:32

Local clock offset: -0.814 ms

Remote clock offset: 0.677 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.88 Mbit/s

95th percentile per-packet one-way delay: 97.313 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 97.331 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.27 Mbit/s

95th percentile per-packet one-way delay: 91.295 ms

Loss rate: 0.08%

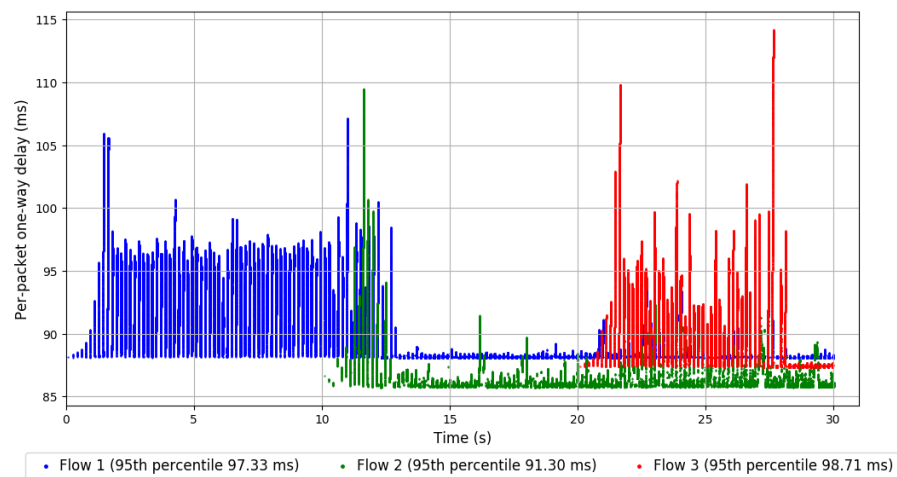
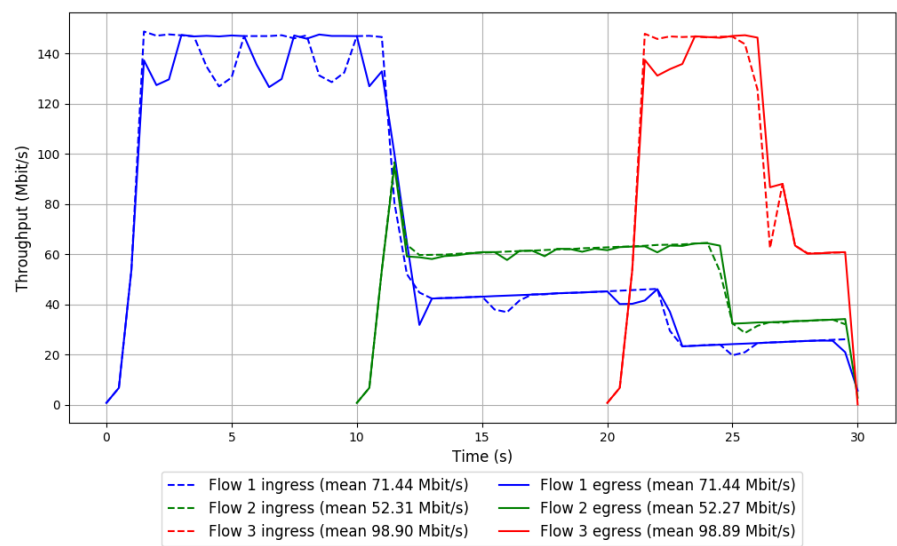
-- Flow 3:

Average throughput: 98.89 Mbit/s

95th percentile per-packet one-way delay: 98.712 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link

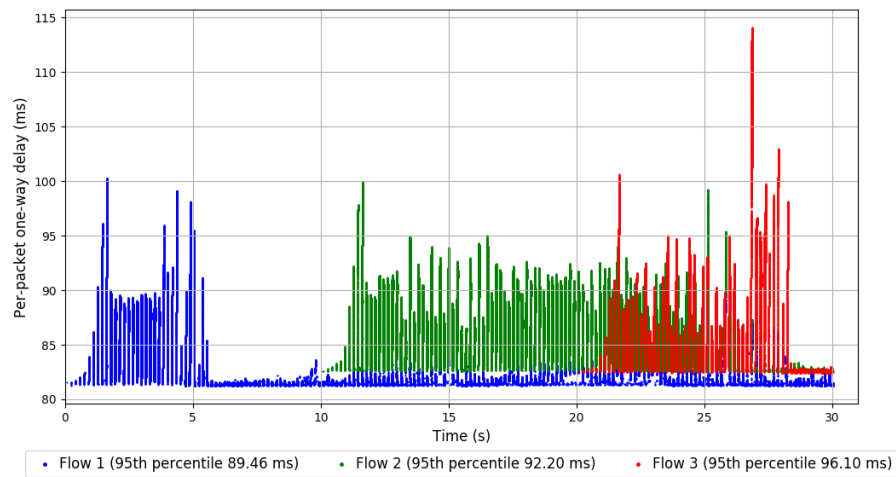
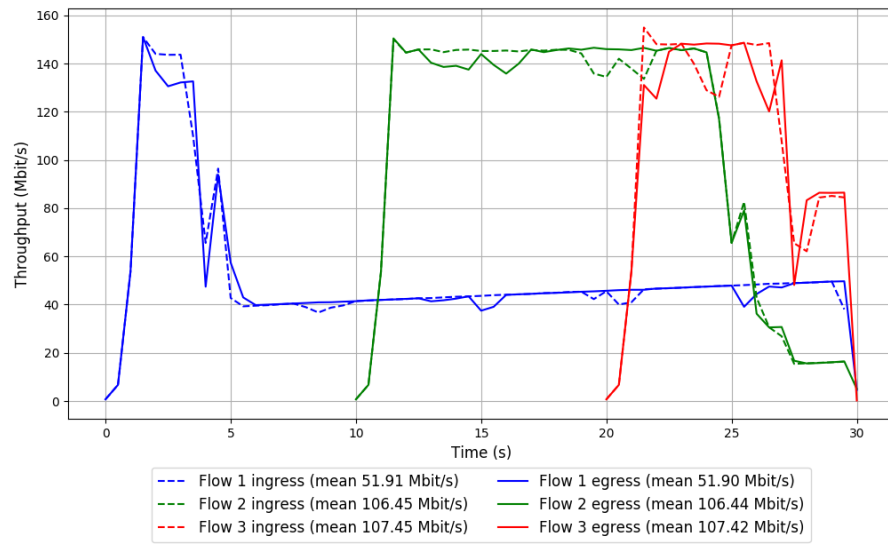


Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 00:41:06
End at: 2017-12-06 00:41:36
Local clock offset: -0.312 ms
Remote clock offset: -4.164 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.41 Mbit/s
95th percentile per-packet one-way delay: 92.718 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 51.90 Mbit/s
95th percentile per-packet one-way delay: 89.463 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 106.44 Mbit/s
95th percentile per-packet one-way delay: 92.199 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 107.42 Mbit/s
95th percentile per-packet one-way delay: 96.102 ms
Loss rate: 0.03%

Run 8: Report of TCP Vegas — Data Link

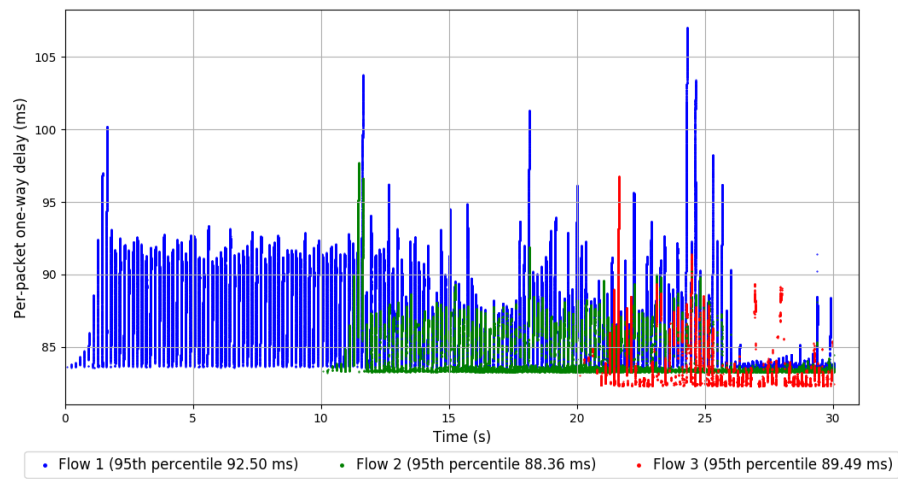
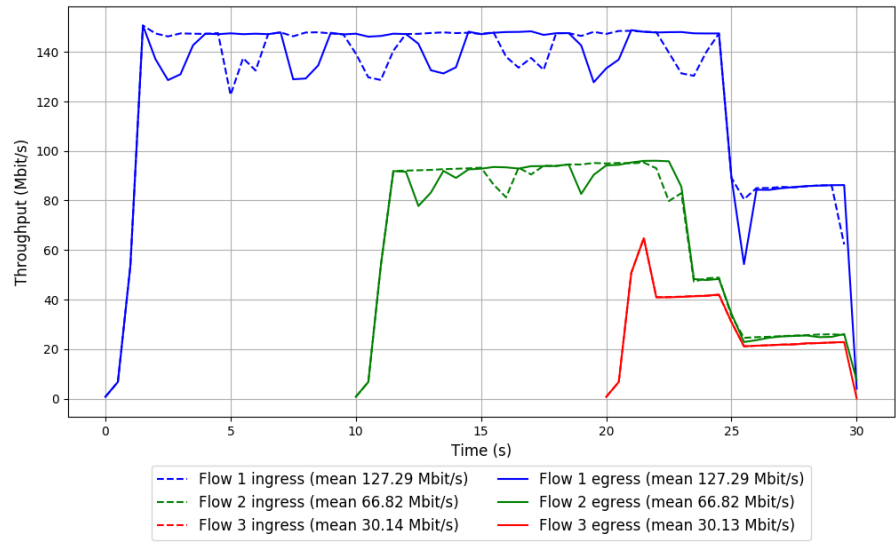


Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 01:01:24
End at: 2017-12-06 01:01:54
Local clock offset: 0.206 ms
Remote clock offset: -3.322 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 181.80 Mbit/s
95th percentile per-packet one-way delay: 92.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.29 Mbit/s
95th percentile per-packet one-way delay: 92.502 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.82 Mbit/s
95th percentile per-packet one-way delay: 88.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 89.492 ms
Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 01:21:19

End at: 2017-12-06 01:21:49

Local clock offset: 0.545 ms

Remote clock offset: 0.57 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.27 Mbit/s

95th percentile per-packet one-way delay: 95.723 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 95.961 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 56.89 Mbit/s

95th percentile per-packet one-way delay: 92.565 ms

Loss rate: 0.07%

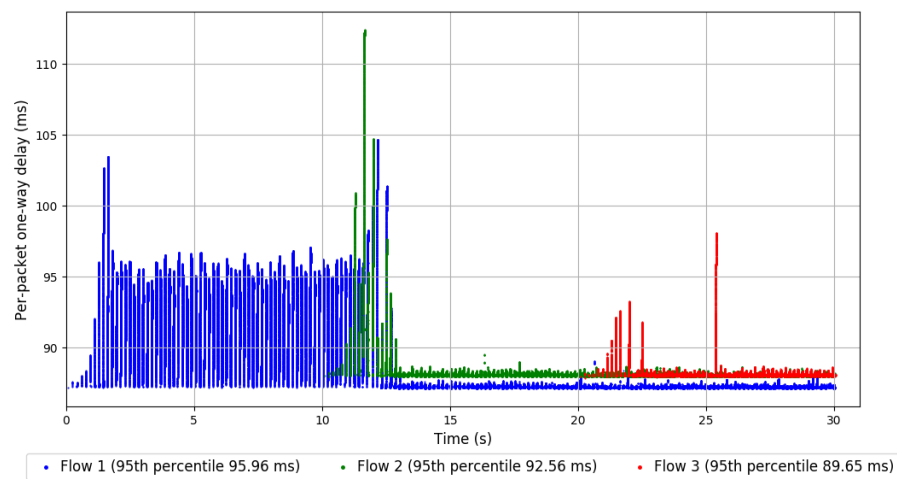
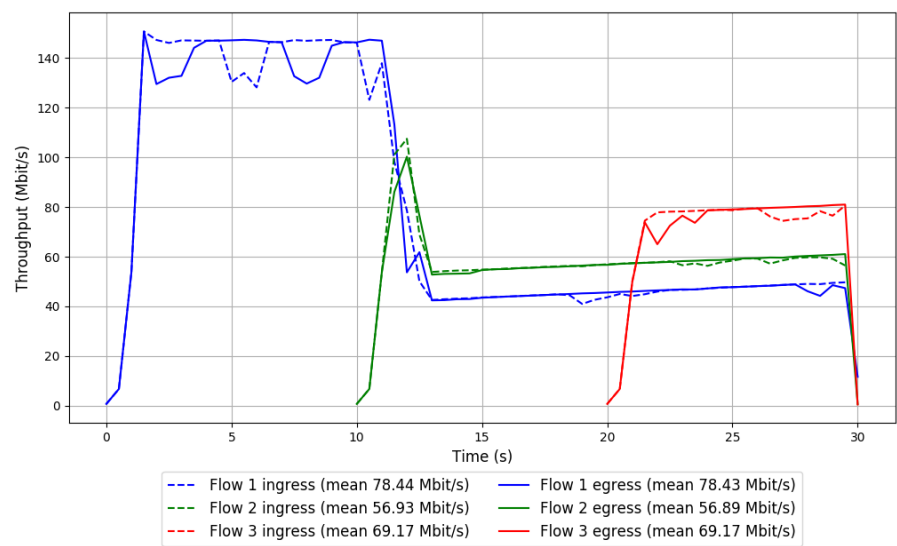
-- Flow 3:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 89.650 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-05 22:20:32

End at: 2017-12-05 22:21:02

Local clock offset: -1.785 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.06 Mbit/s

95th percentile per-packet one-way delay: 147.140 ms

Loss rate: 10.86%

-- Flow 1:

Average throughput: 229.78 Mbit/s

95th percentile per-packet one-way delay: 145.822 ms

Loss rate: 6.78%

-- Flow 2:

Average throughput: 58.17 Mbit/s

95th percentile per-packet one-way delay: 117.472 ms

Loss rate: 11.96%

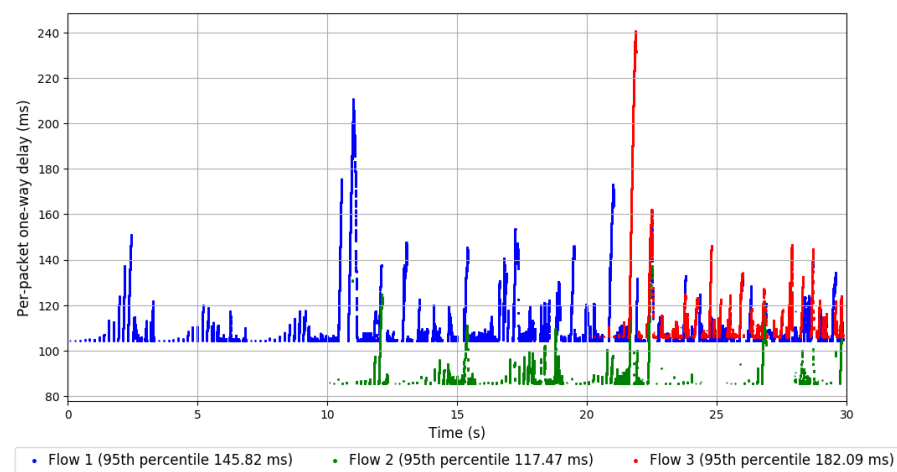
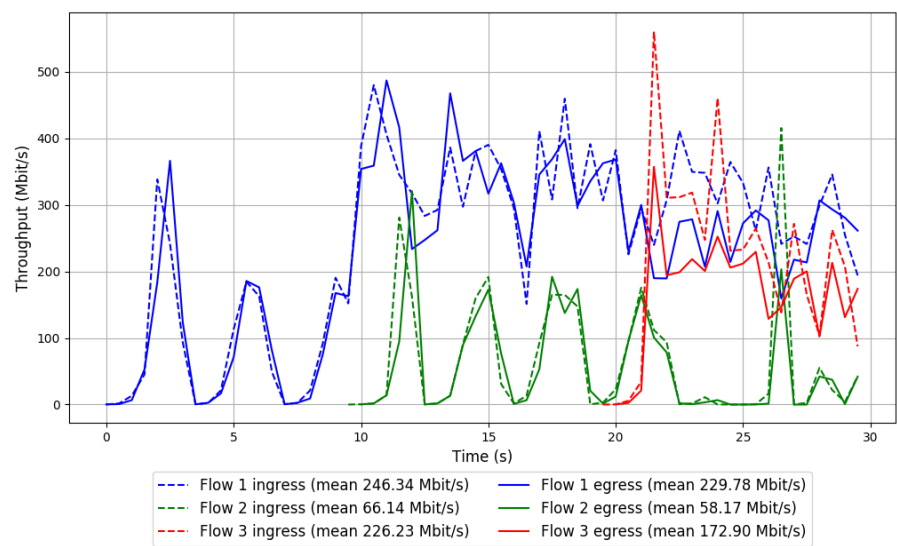
-- Flow 3:

Average throughput: 172.90 Mbit/s

95th percentile per-packet one-way delay: 182.095 ms

Loss rate: 23.72%

Run 1: Report of Verus — Data Link

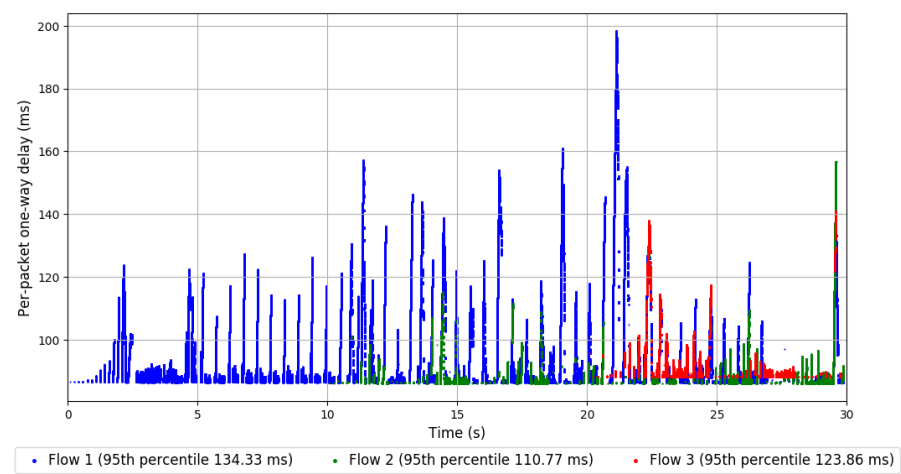
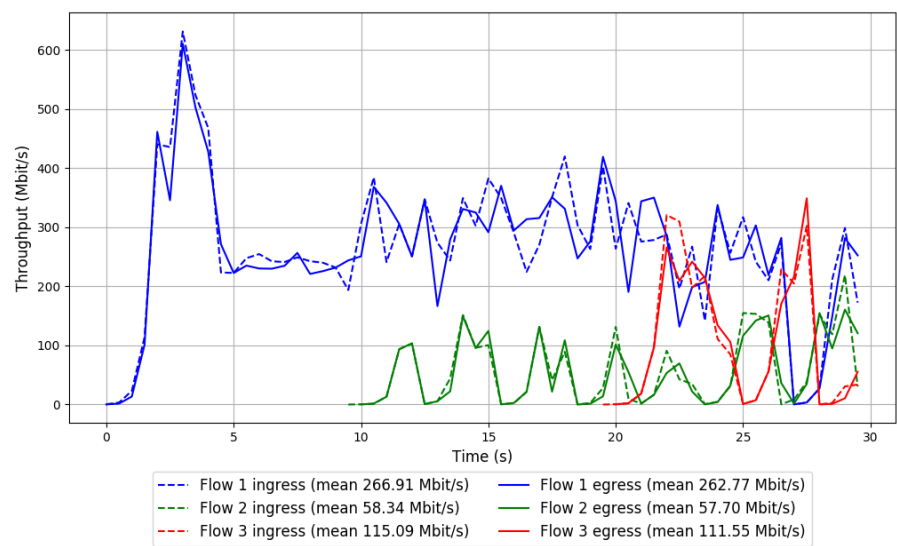


Run 2: Statistics of Verus

Start at: 2017-12-05 22:40:31
End at: 2017-12-05 22:41:01
Local clock offset: -2.442 ms
Remote clock offset: 2.01 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.34 Mbit/s
95th percentile per-packet one-way delay: 131.630 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 262.77 Mbit/s
95th percentile per-packet one-way delay: 134.327 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 110.768 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 111.55 Mbit/s
95th percentile per-packet one-way delay: 123.860 ms
Loss rate: 3.15%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-05 23:00:41

End at: 2017-12-05 23:01:11

Local clock offset: -3.057 ms

Remote clock offset: 3.139 ms

Below is generated by plot.py at 2017-12-06 03:13:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.68 Mbit/s

95th percentile per-packet one-way delay: 171.634 ms

Loss rate: 6.34%

-- Flow 1:

Average throughput: 180.21 Mbit/s

95th percentile per-packet one-way delay: 168.481 ms

Loss rate: 5.92%

-- Flow 2:

Average throughput: 177.17 Mbit/s

95th percentile per-packet one-way delay: 176.898 ms

Loss rate: 7.05%

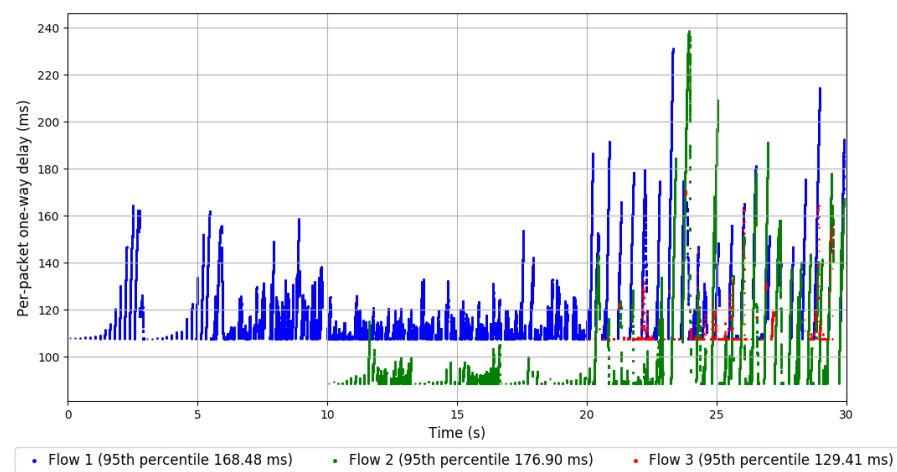
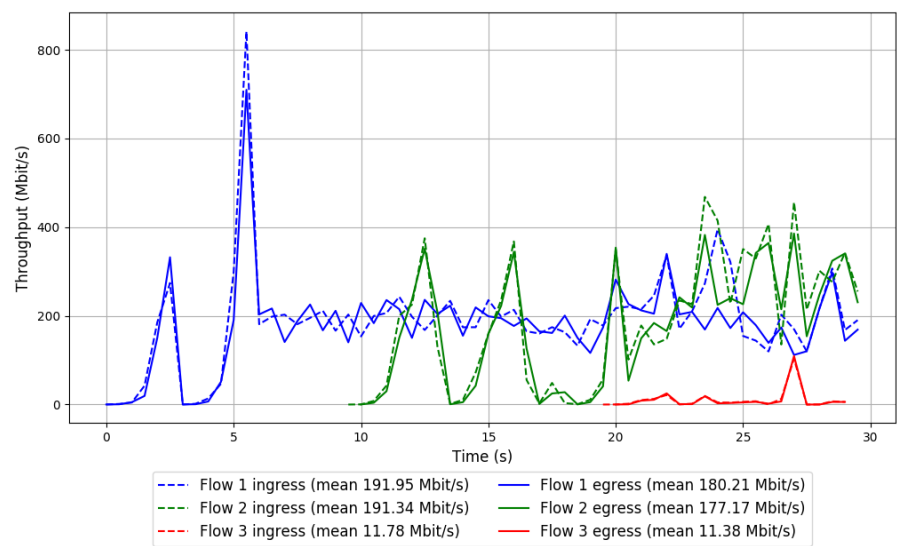
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 129.415 ms

Loss rate: 3.52%

Run 3: Report of Verus — Data Link

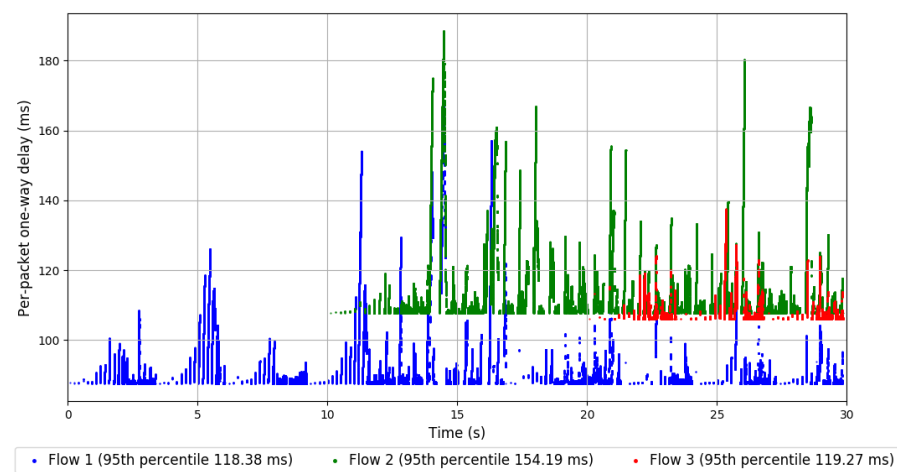
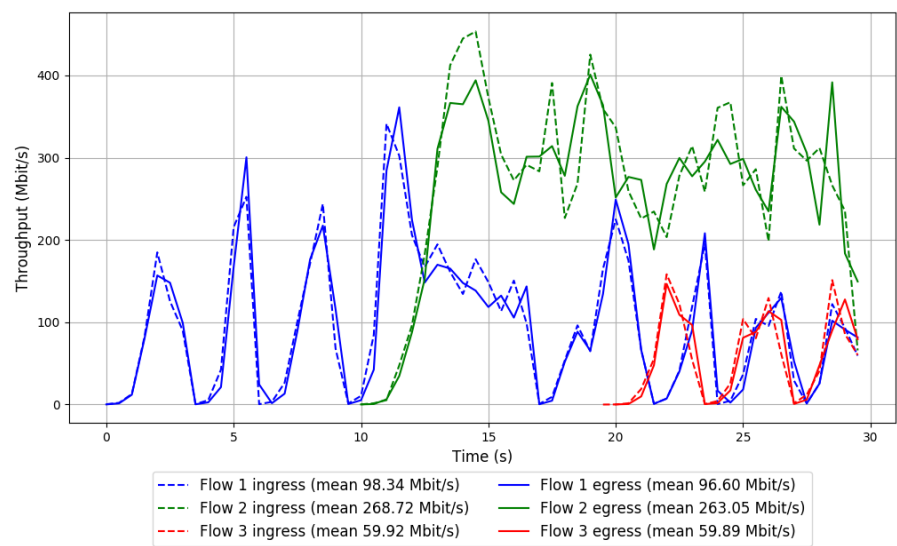


Run 4: Statistics of Verus

Start at: 2017-12-05 23:20:54
End at: 2017-12-05 23:21:24
Local clock offset: -2.387 ms
Remote clock offset: 2.949 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.53 Mbit/s
95th percentile per-packet one-way delay: 144.185 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 118.384 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 263.05 Mbit/s
95th percentile per-packet one-way delay: 154.187 ms
Loss rate: 2.11%
-- Flow 3:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 119.273 ms
Loss rate: 0.04%

Run 4: Report of Verus — Data Link

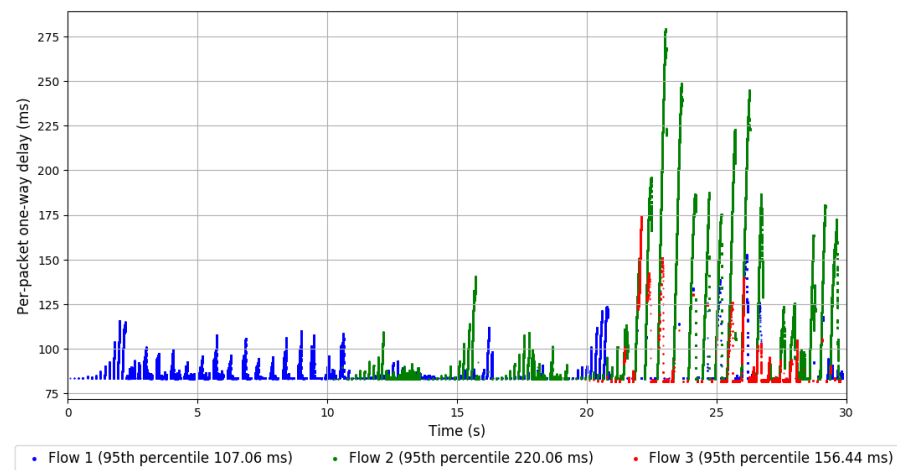
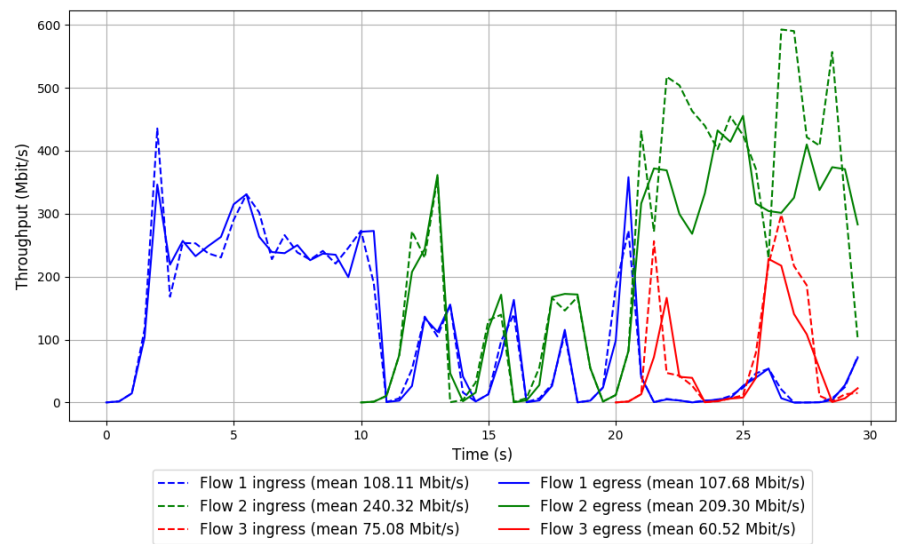


Run 5: Statistics of Verus

Start at: 2017-12-05 23:41:44
End at: 2017-12-05 23:42:14
Local clock offset: -1.721 ms
Remote clock offset: -3.192 ms

Below is generated by plot.py at 2017-12-06 03:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.50 Mbit/s
95th percentile per-packet one-way delay: 188.222 ms
Loss rate: 8.81%
-- Flow 1:
Average throughput: 107.68 Mbit/s
95th percentile per-packet one-way delay: 107.060 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 209.30 Mbit/s
95th percentile per-packet one-way delay: 220.055 ms
Loss rate: 12.91%
-- Flow 3:
Average throughput: 60.52 Mbit/s
95th percentile per-packet one-way delay: 156.442 ms
Loss rate: 19.40%

Run 5: Report of Verus — Data Link

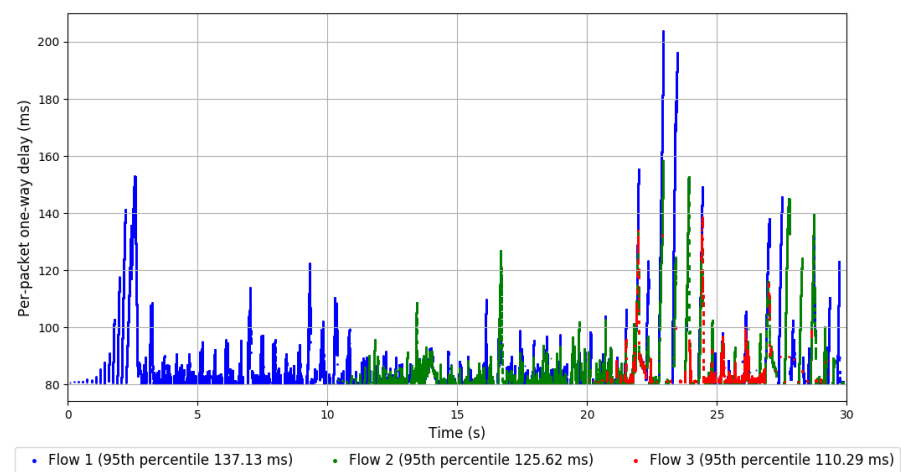
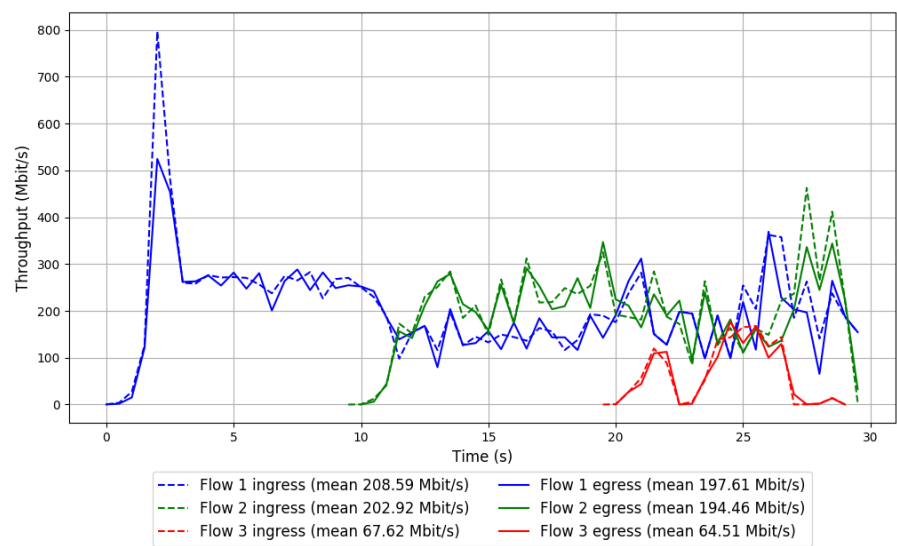


Run 6: Statistics of Verus

Start at: 2017-12-06 00:01:51
End at: 2017-12-06 00:02:21
Local clock offset: -1.216 ms
Remote clock offset: -4.432 ms

Below is generated by plot.py at 2017-12-06 03:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.92 Mbit/s
95th percentile per-packet one-way delay: 133.024 ms
Loss rate: 4.82%
-- Flow 1:
Average throughput: 197.61 Mbit/s
95th percentile per-packet one-way delay: 137.134 ms
Loss rate: 5.26%
-- Flow 2:
Average throughput: 194.46 Mbit/s
95th percentile per-packet one-way delay: 125.622 ms
Loss rate: 4.17%
-- Flow 3:
Average throughput: 64.51 Mbit/s
95th percentile per-packet one-way delay: 110.292 ms
Loss rate: 4.66%

Run 6: Report of Verus — Data Link

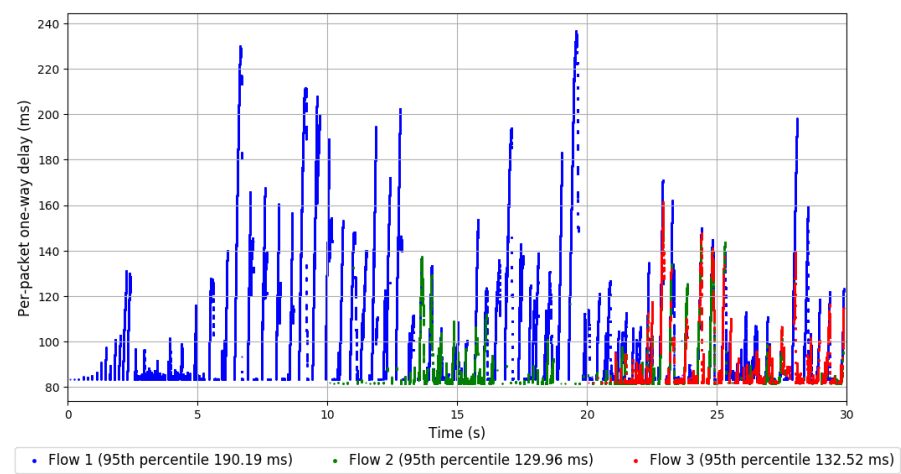
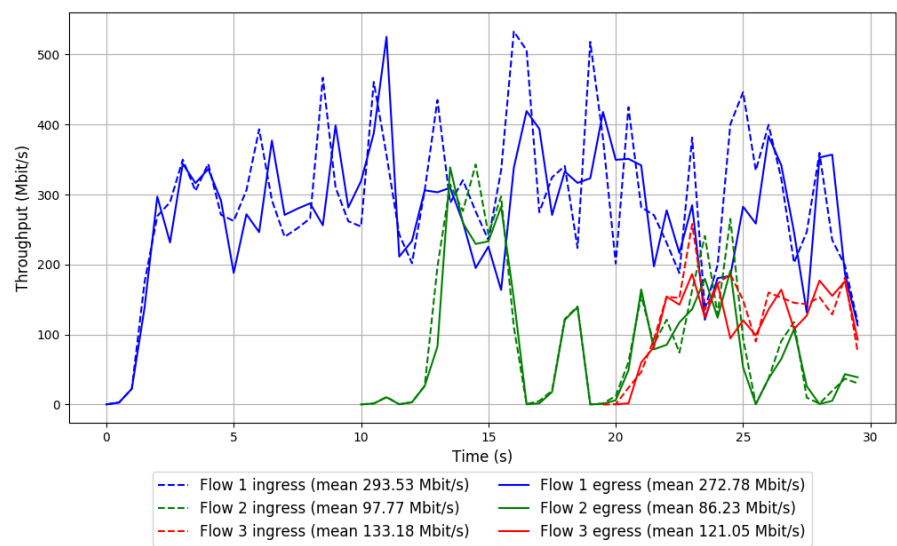


Run 7: Statistics of Verus

Start at: 2017-12-06 00:22:23
End at: 2017-12-06 00:22:53
Local clock offset: -0.799 ms
Remote clock offset: -3.303 ms

Below is generated by plot.py at 2017-12-06 03:14:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 369.88 Mbit/s
95th percentile per-packet one-way delay: 180.534 ms
Loss rate: 7.93%
-- Flow 1:
Average throughput: 272.78 Mbit/s
95th percentile per-packet one-way delay: 190.186 ms
Loss rate: 6.97%
-- Flow 2:
Average throughput: 86.23 Mbit/s
95th percentile per-packet one-way delay: 129.963 ms
Loss rate: 11.67%
-- Flow 3:
Average throughput: 121.05 Mbit/s
95th percentile per-packet one-way delay: 132.520 ms
Loss rate: 8.80%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-06 00:42:28

End at: 2017-12-06 00:42:58

Local clock offset: -0.258 ms

Remote clock offset: 1.306 ms

Below is generated by plot.py at 2017-12-06 03:15:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.17 Mbit/s

95th percentile per-packet one-way delay: 176.376 ms

Loss rate: 7.46%

-- Flow 1:

Average throughput: 132.09 Mbit/s

95th percentile per-packet one-way delay: 138.242 ms

Loss rate: 5.13%

-- Flow 2:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 199.893 ms

Loss rate: 9.05%

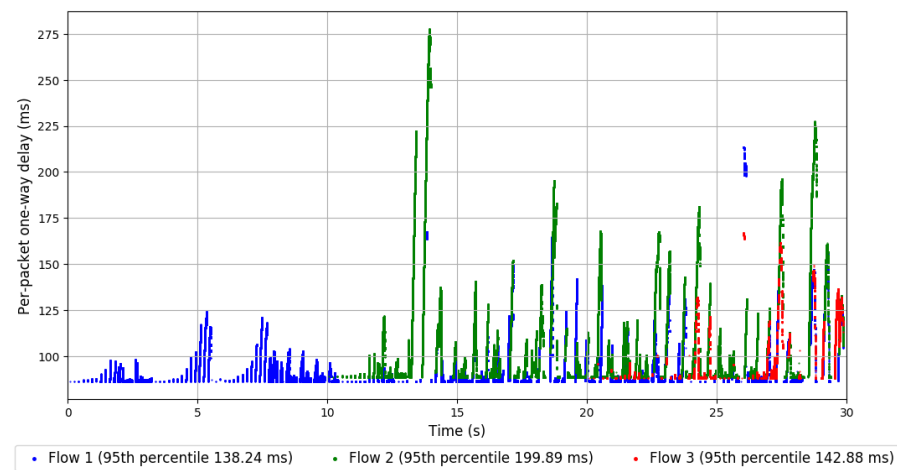
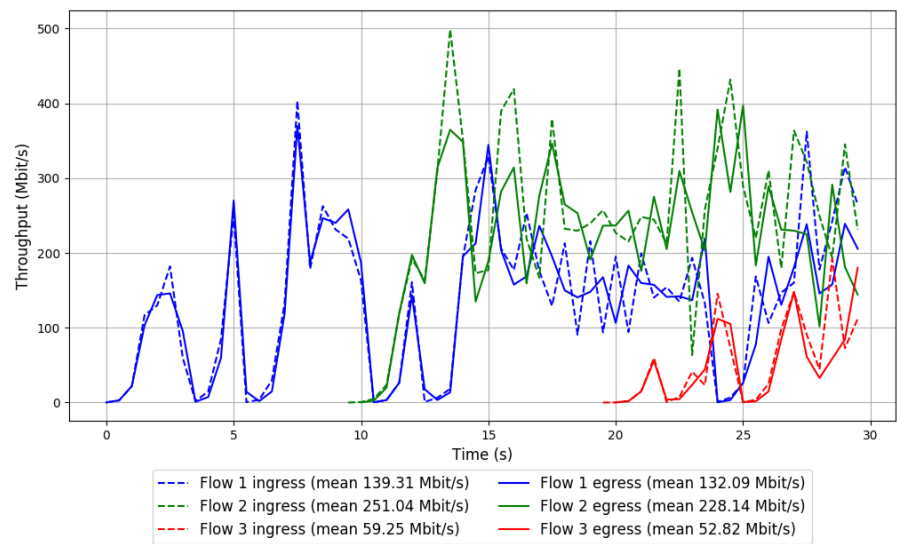
-- Flow 3:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 142.878 ms

Loss rate: 10.64%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-06 01:02:48

End at: 2017-12-06 01:03:18

Local clock offset: 0.254 ms

Remote clock offset: 0.483 ms

Below is generated by plot.py at 2017-12-06 03:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.61 Mbit/s

95th percentile per-packet one-way delay: 153.874 ms

Loss rate: 6.62%

-- Flow 1:

Average throughput: 216.38 Mbit/s

95th percentile per-packet one-way delay: 127.009 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 136.144 ms

Loss rate: 19.18%

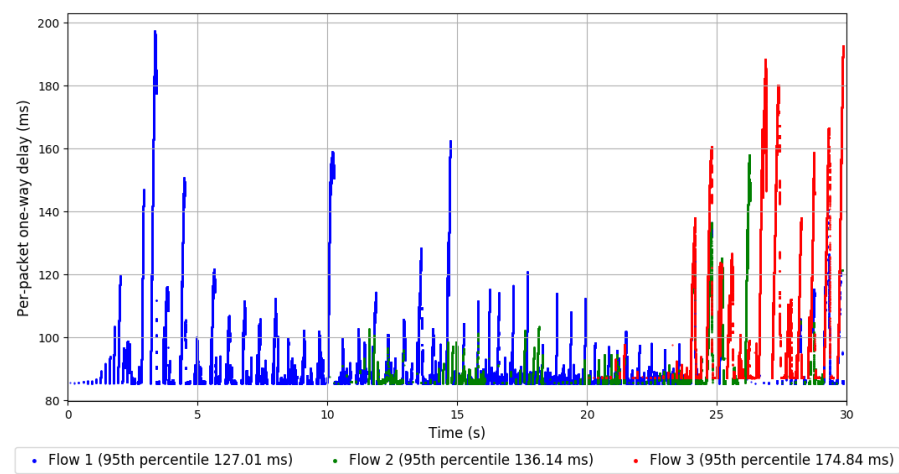
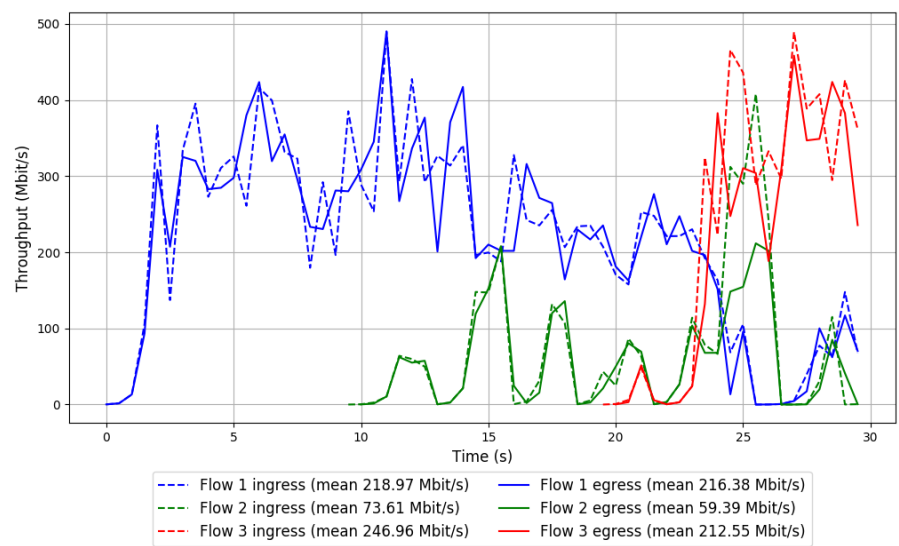
-- Flow 3:

Average throughput: 212.55 Mbit/s

95th percentile per-packet one-way delay: 174.836 ms

Loss rate: 13.77%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-06 01:22:41

End at: 2017-12-06 01:23:11

Local clock offset: 0.504 ms

Remote clock offset: 1.392 ms

Below is generated by plot.py at 2017-12-06 03:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 271.50 Mbit/s

95th percentile per-packet one-way delay: 134.273 ms

Loss rate: 6.17%

-- Flow 1:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 130.557 ms

Loss rate: 5.75%

-- Flow 2:

Average throughput: 152.98 Mbit/s

95th percentile per-packet one-way delay: 140.641 ms

Loss rate: 6.89%

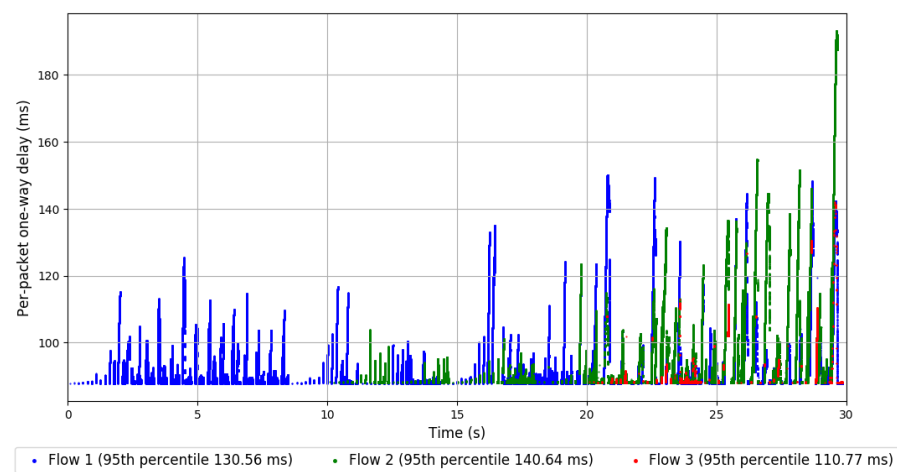
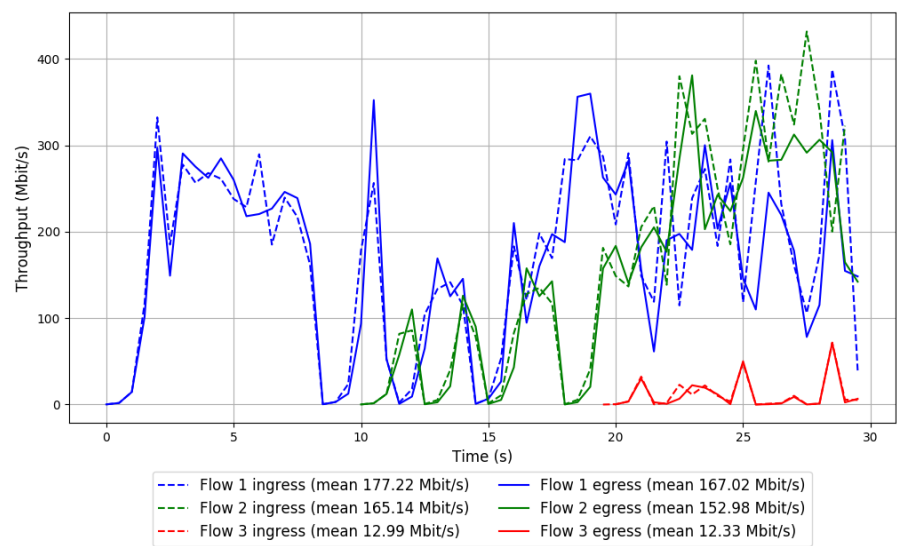
-- Flow 3:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 110.772 ms

Loss rate: 5.03%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-05 22:17:35

End at: 2017-12-05 22:18:05

Local clock offset: -1.602 ms

Remote clock offset: 0.392 ms

Below is generated by plot.py at 2017-12-06 03:16:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.34 Mbit/s

95th percentile per-packet one-way delay: 105.991 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 86.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 87.342 ms

Loss rate: 0.00%

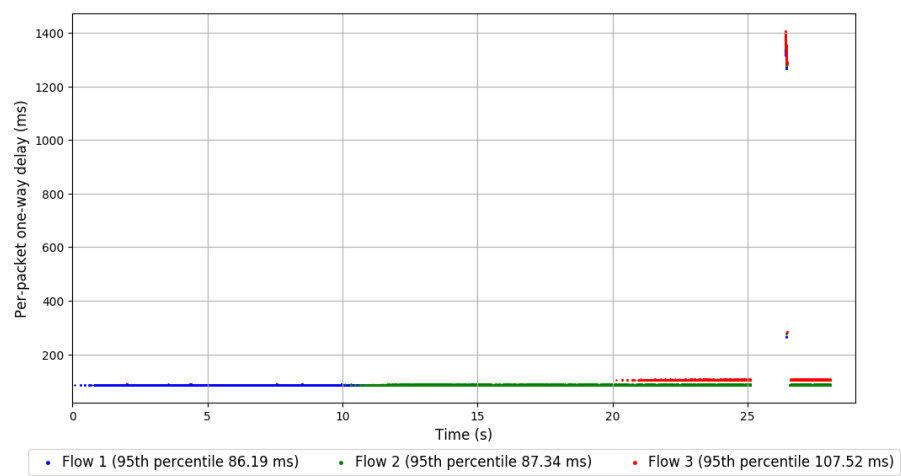
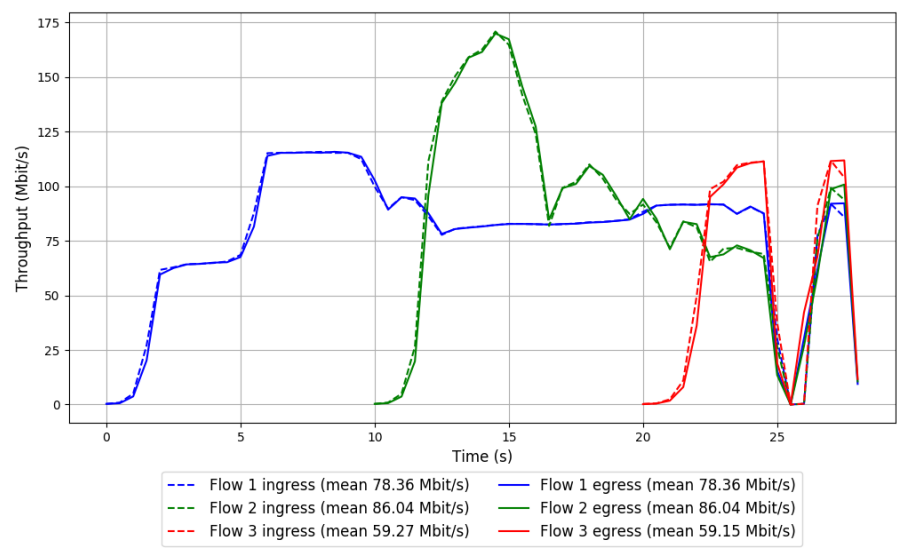
-- Flow 3:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 107.515 ms

Loss rate: 0.44%

Run 1: Report of Copa — Data Link

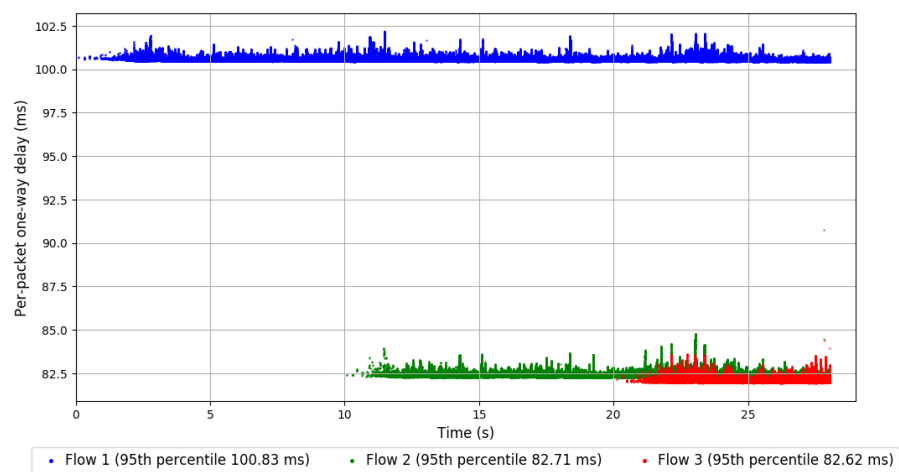
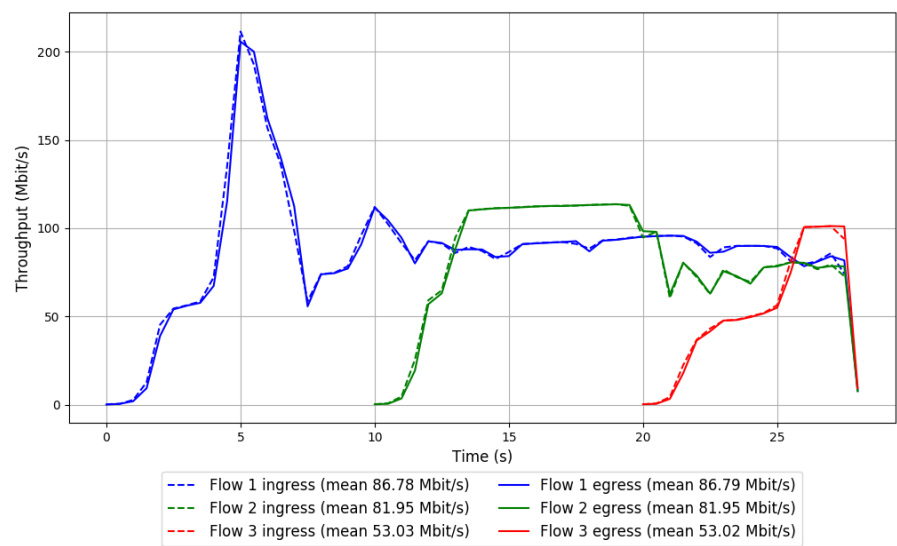


Run 2: Statistics of Copa

Start at: 2017-12-05 22:37:40
End at: 2017-12-05 22:38:10
Local clock offset: -2.446 ms
Remote clock offset: -2.947 ms

Below is generated by plot.py at 2017-12-06 03:16:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.47 Mbit/s
95th percentile per-packet one-way delay: 100.719 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 86.79 Mbit/s
95th percentile per-packet one-way delay: 100.833 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: 82.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 82.621 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-05 22:57:44

End at: 2017-12-05 22:58:14

Local clock offset: -3.19 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2017-12-06 03:17:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.65 Mbit/s

95th percentile per-packet one-way delay: 87.939 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 87.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 0.00%

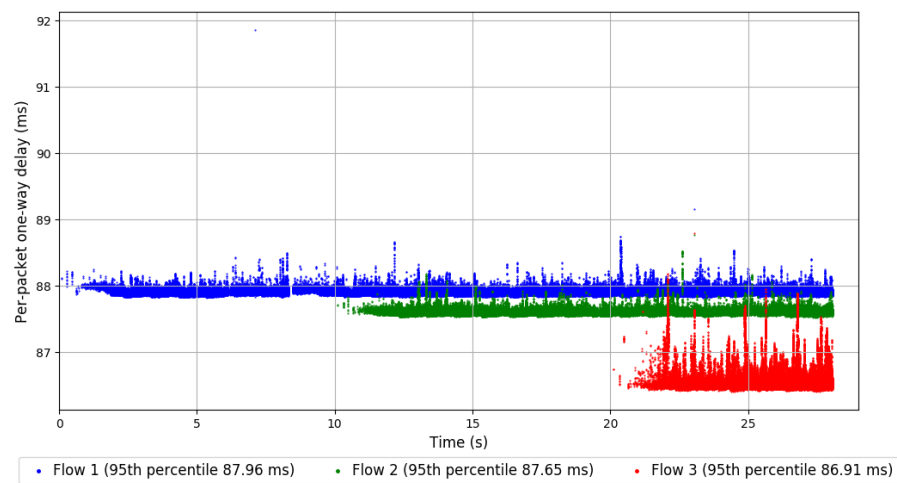
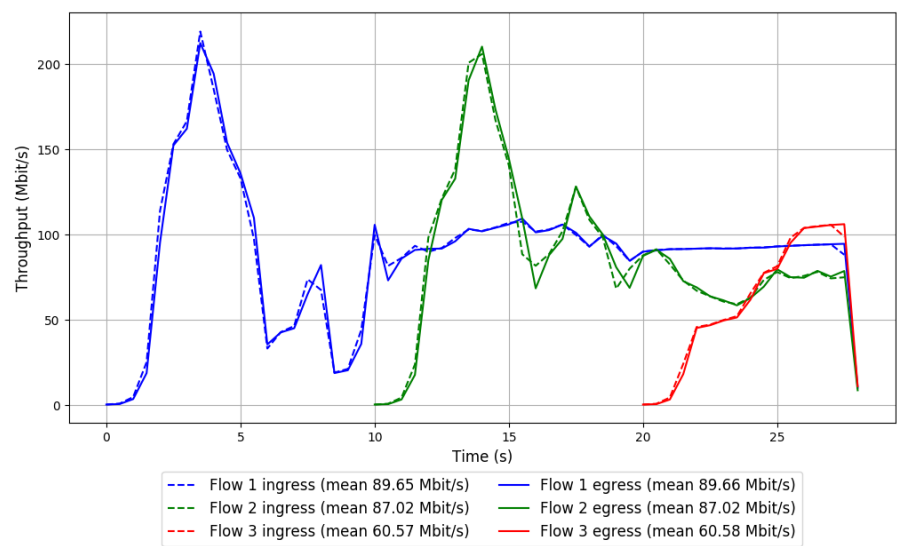
-- Flow 3:

Average throughput: 60.58 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

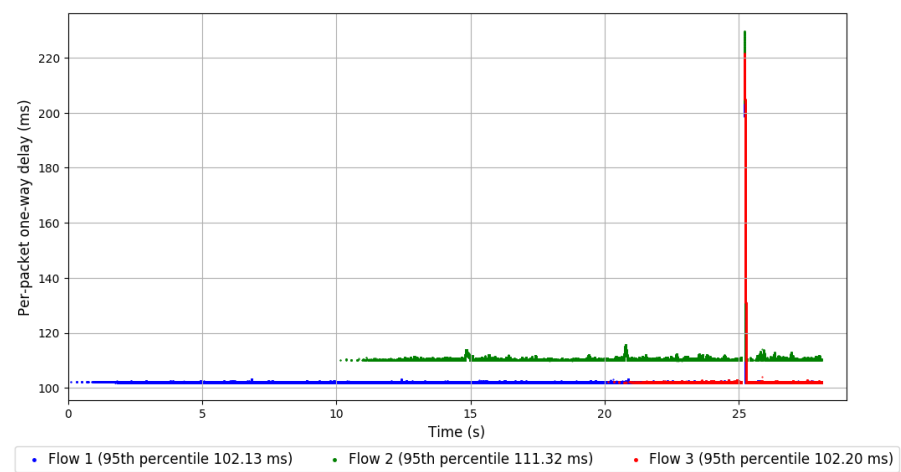
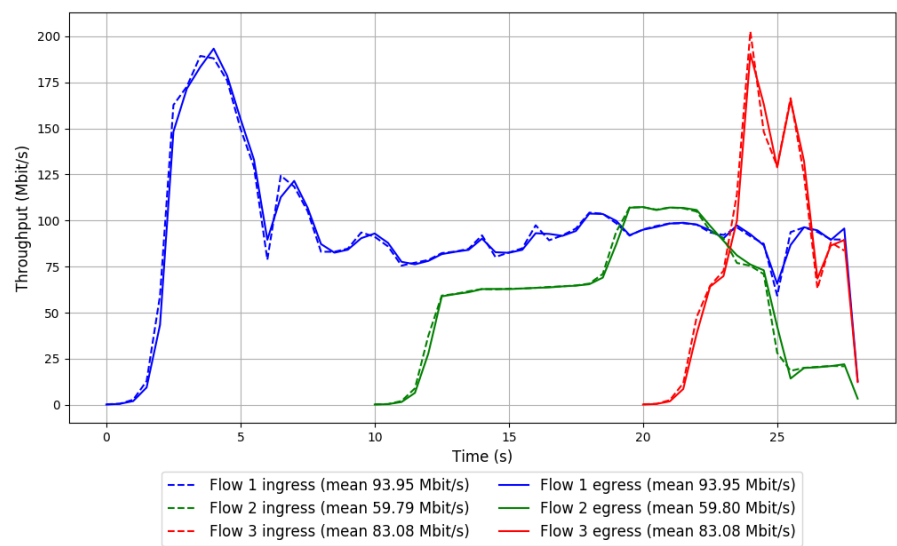


Run 4: Statistics of Copa

Start at: 2017-12-05 23:18:01
End at: 2017-12-05 23:18:31
Local clock offset: -2.425 ms
Remote clock offset: -2.569 ms

Below is generated by plot.py at 2017-12-06 03:17:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.89 Mbit/s
95th percentile per-packet one-way delay: 110.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 102.129 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.80 Mbit/s
95th percentile per-packet one-way delay: 111.321 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 102.204 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-05 23:38:46

End at: 2017-12-05 23:39:16

Local clock offset: -1.916 ms

Remote clock offset: 1.749 ms

Below is generated by plot.py at 2017-12-06 03:18:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.27 Mbit/s

95th percentile per-packet one-way delay: 108.612 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 108.637 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 107.162 ms

Loss rate: 0.01%

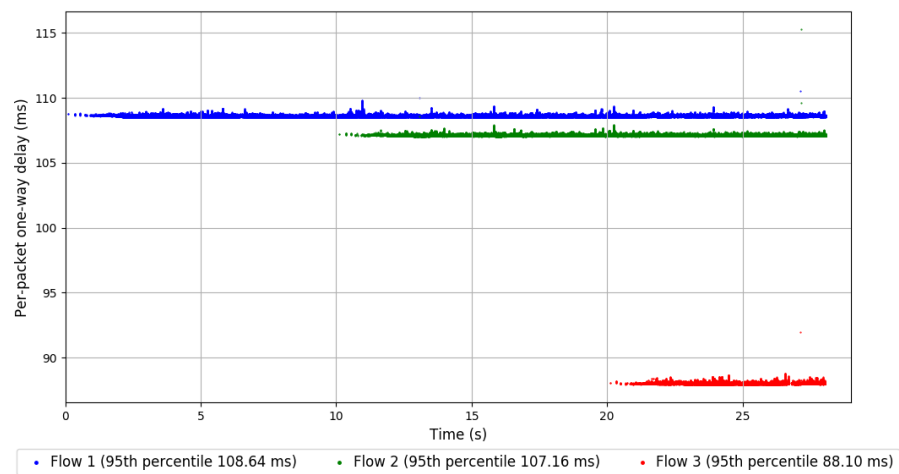
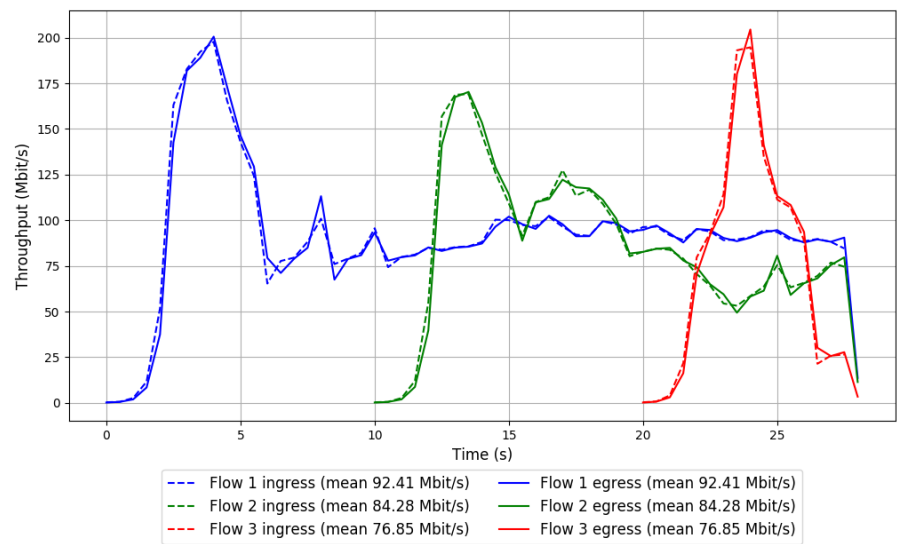
-- Flow 3:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 88.098 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

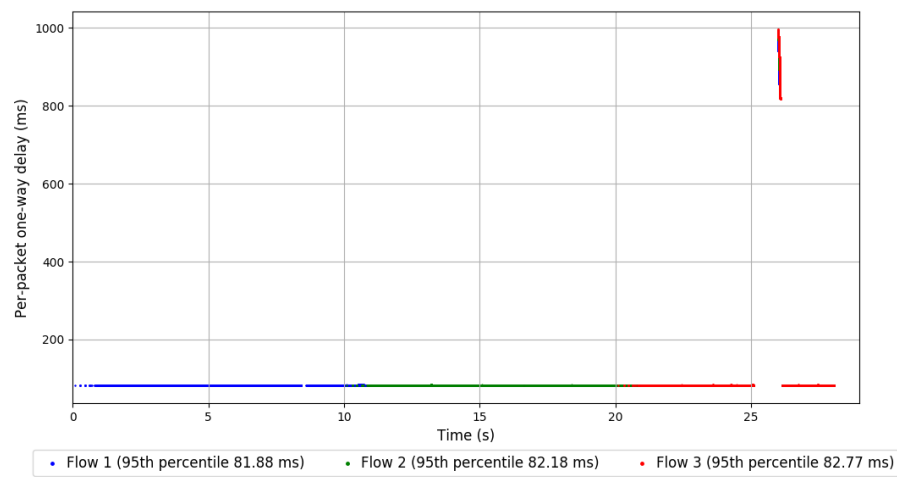
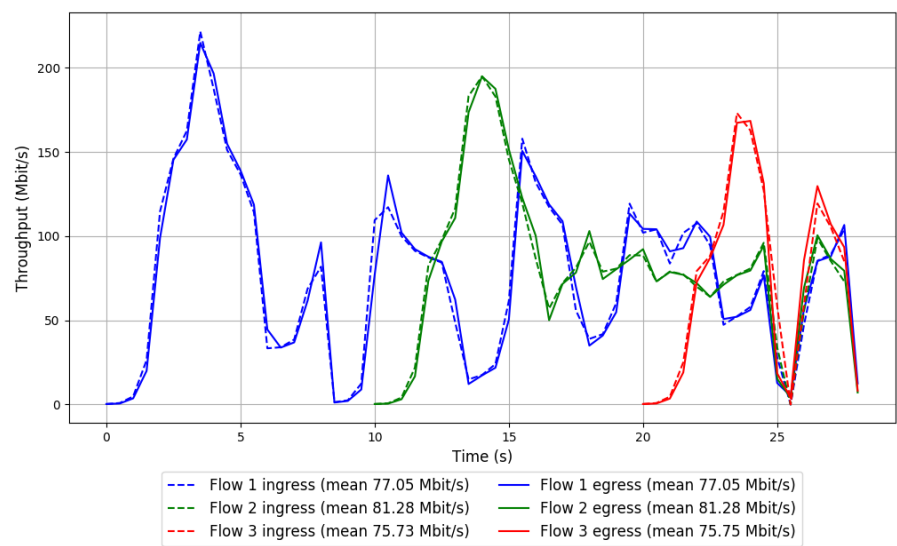


Run 6: Statistics of Copa

Start at: 2017-12-05 23:58:52
End at: 2017-12-05 23:59:22
Local clock offset: -1.241 ms
Remote clock offset: -4.578 ms

Below is generated by plot.py at 2017-12-06 03:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 150.71 Mbit/s
95th percentile per-packet one-way delay: 82.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.05 Mbit/s
95th percentile per-packet one-way delay: 81.875 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 81.28 Mbit/s
95th percentile per-packet one-way delay: 82.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 82.765 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

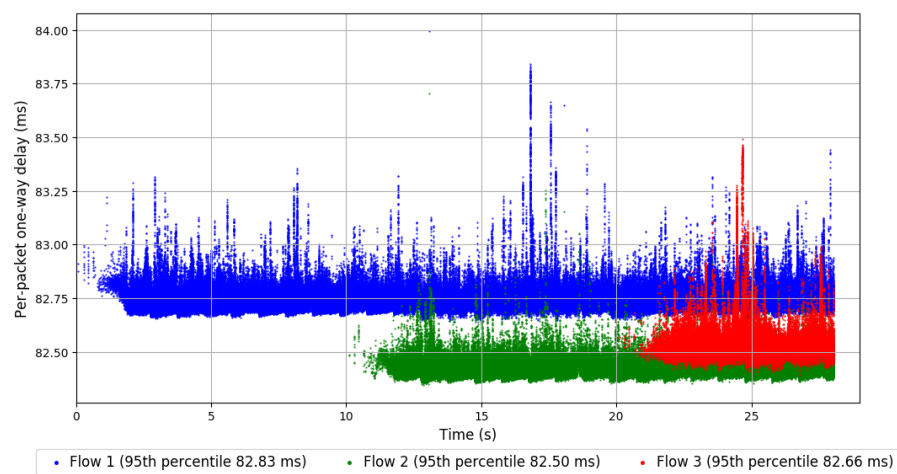
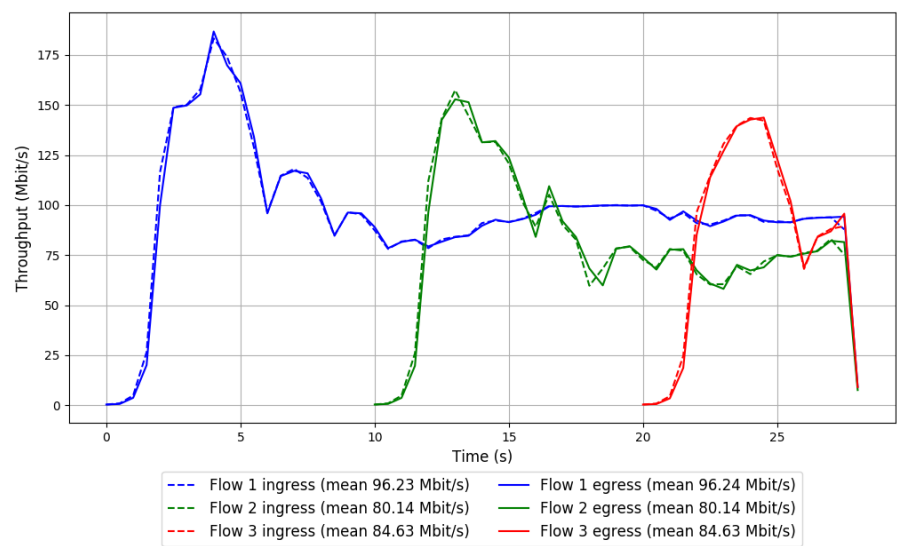


Run 7: Statistics of Copa

Start at: 2017-12-06 00:19:29
End at: 2017-12-06 00:19:59
Local clock offset: -0.837 ms
Remote clock offset: -4.223 ms

Below is generated by plot.py at 2017-12-06 03:20:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.70 Mbit/s
95th percentile per-packet one-way delay: 82.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 82.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 82.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 82.655 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

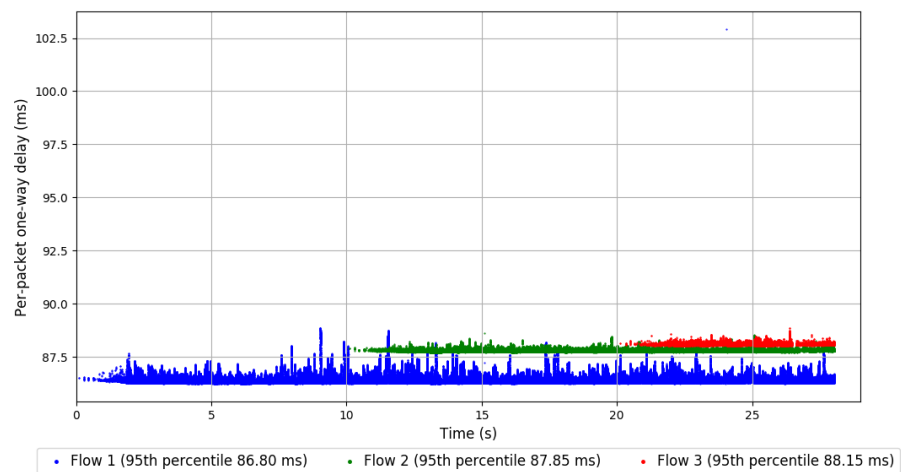
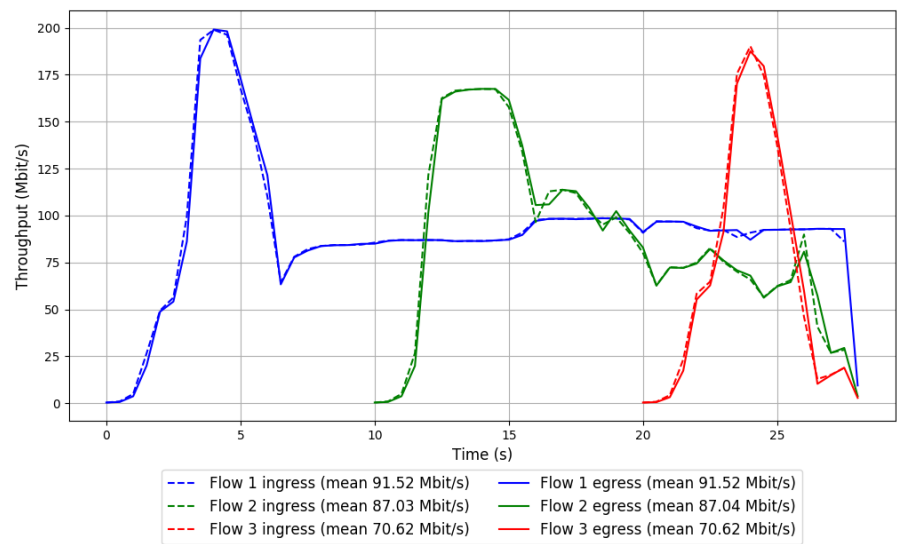


Run 8: Statistics of Copa

Start at: 2017-12-06 00:39:36
End at: 2017-12-06 00:40:06
Local clock offset: -0.338 ms
Remote clock offset: 1.34 ms

Below is generated by plot.py at 2017-12-06 03:20:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 167.40 Mbit/s
95th percentile per-packet one-way delay: 88.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 86.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 87.854 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 88.148 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

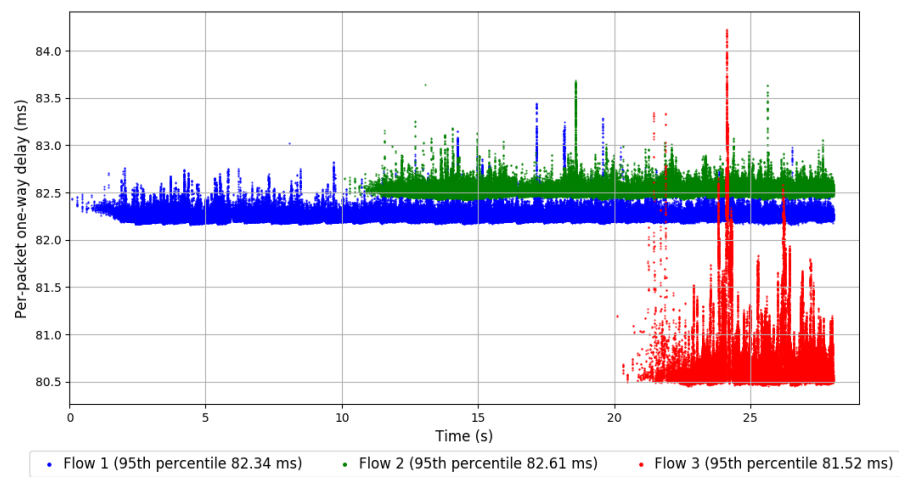
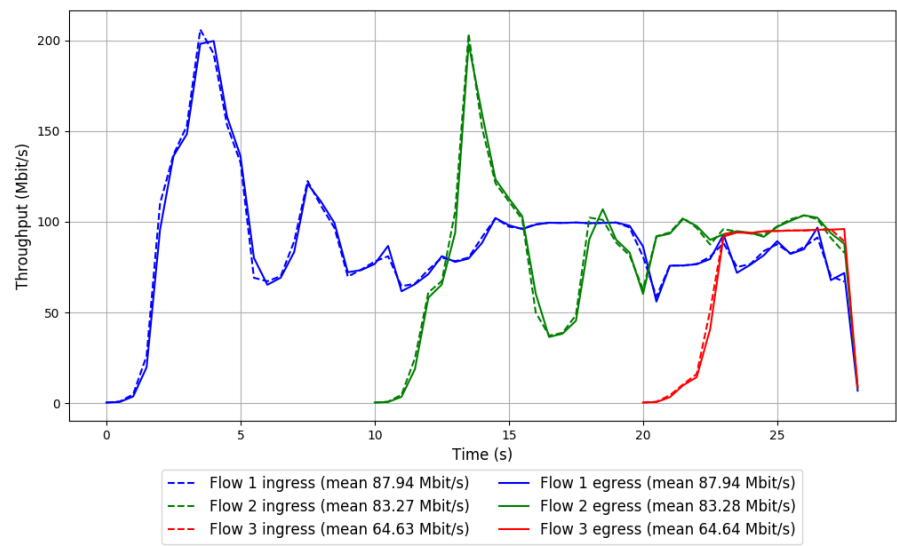


Run 9: Statistics of Copa

Start at: 2017-12-06 00:59:51
End at: 2017-12-06 01:00:21
Local clock offset: 0.156 ms
Remote clock offset: -4.161 ms

Below is generated by plot.py at 2017-12-06 03:20:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.71 Mbit/s
95th percentile per-packet one-way delay: 82.562 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 82.341 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.28 Mbit/s
95th percentile per-packet one-way delay: 82.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 81.516 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

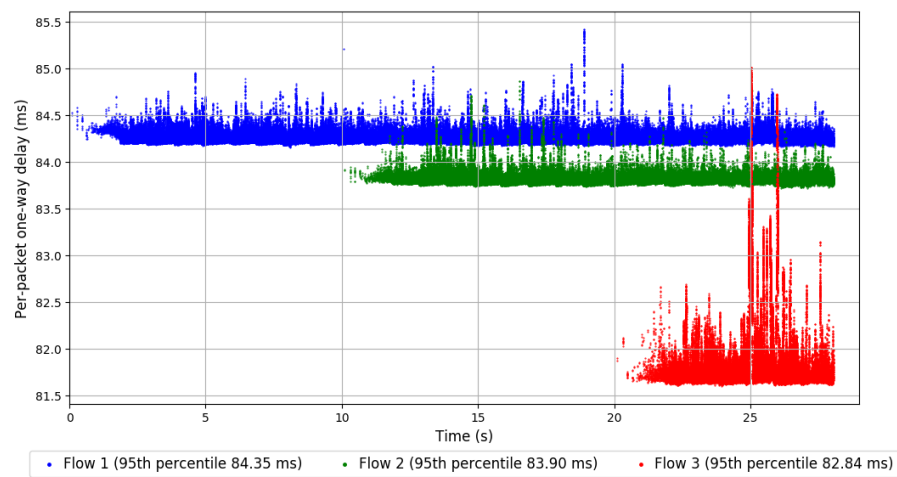
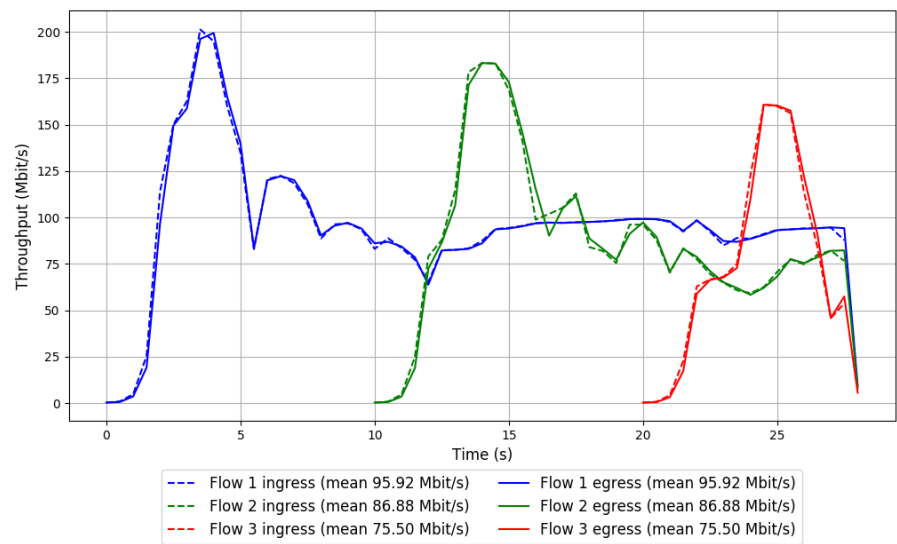


Run 10: Statistics of Copa

Start at: 2017-12-06 01:19:48
End at: 2017-12-06 01:20:18
Local clock offset: 0.46 ms
Remote clock offset: -3.265 ms

Below is generated by plot.py at 2017-12-06 03:20:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 173.05 Mbit/s
95th percentile per-packet one-way delay: 84.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 84.349 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 86.88 Mbit/s
95th percentile per-packet one-way delay: 83.896 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 82.845 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

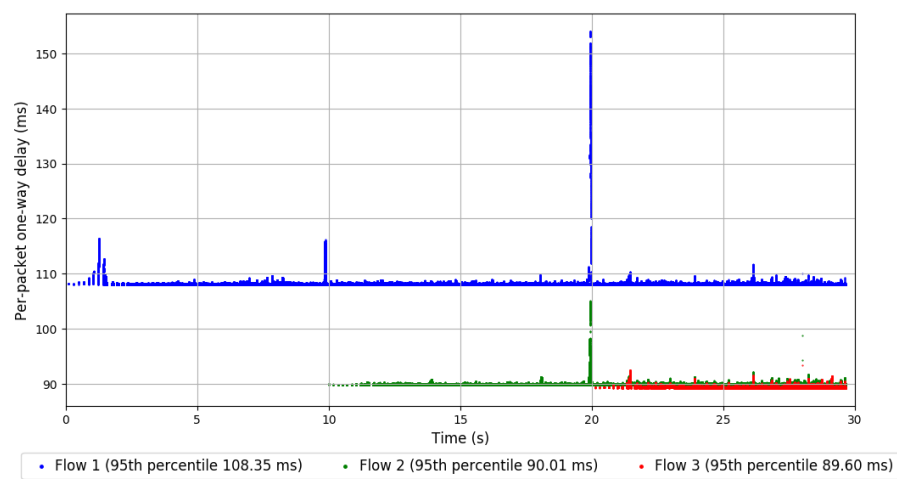
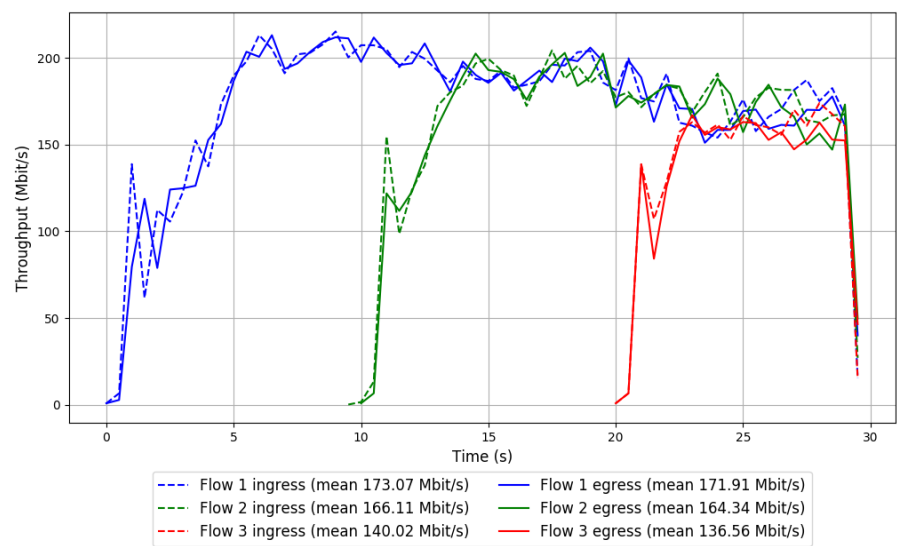


```
Run 1: Statistics of Indigo

Start at: 2017-12-05 22:23:26
End at: 2017-12-05 22:23:56
Local clock offset: -1.843 ms
Remote clock offset: 2.49 ms

# Below is generated by plot.py at 2017-12-06 03:21:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.14 Mbit/s
95th percentile per-packet one-way delay: 108.226 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 171.91 Mbit/s
95th percentile per-packet one-way delay: 108.348 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 164.34 Mbit/s
95th percentile per-packet one-way delay: 90.014 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 136.56 Mbit/s
95th percentile per-packet one-way delay: 89.604 ms
Loss rate: 2.47%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-05 22:43:26

End at: 2017-12-05 22:43:56

Local clock offset: -2.578 ms

Remote clock offset: 2.14 ms

Below is generated by plot.py at 2017-12-06 03:21:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.41 Mbit/s

95th percentile per-packet one-way delay: 107.355 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 168.13 Mbit/s

95th percentile per-packet one-way delay: 107.616 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 159.57 Mbit/s

95th percentile per-packet one-way delay: 105.735 ms

Loss rate: 0.57%

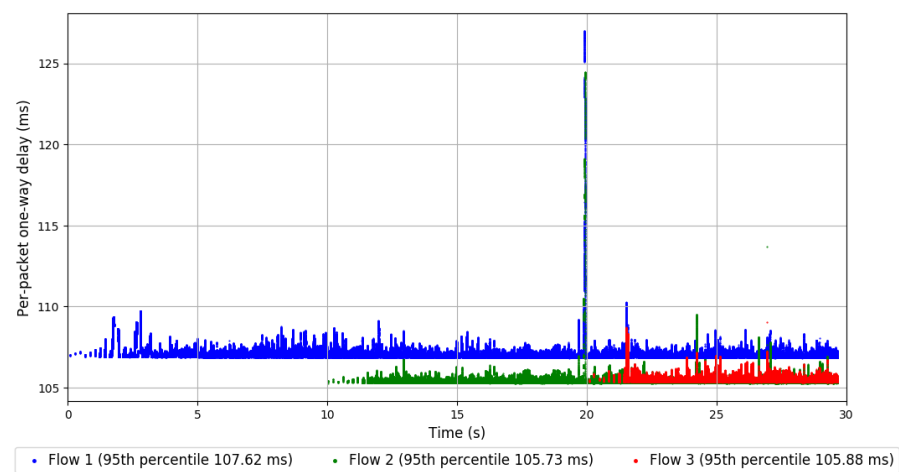
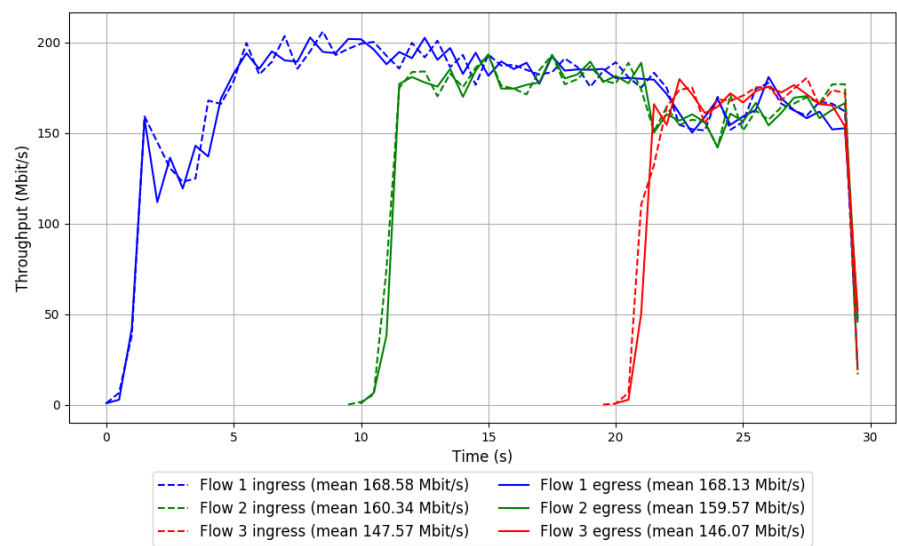
-- Flow 3:

Average throughput: 146.07 Mbit/s

95th percentile per-packet one-way delay: 105.877 ms

Loss rate: 1.17%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

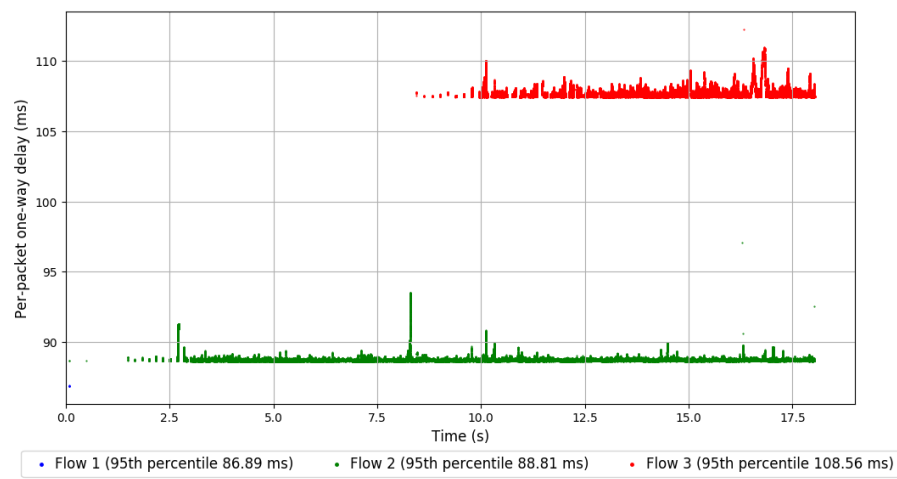
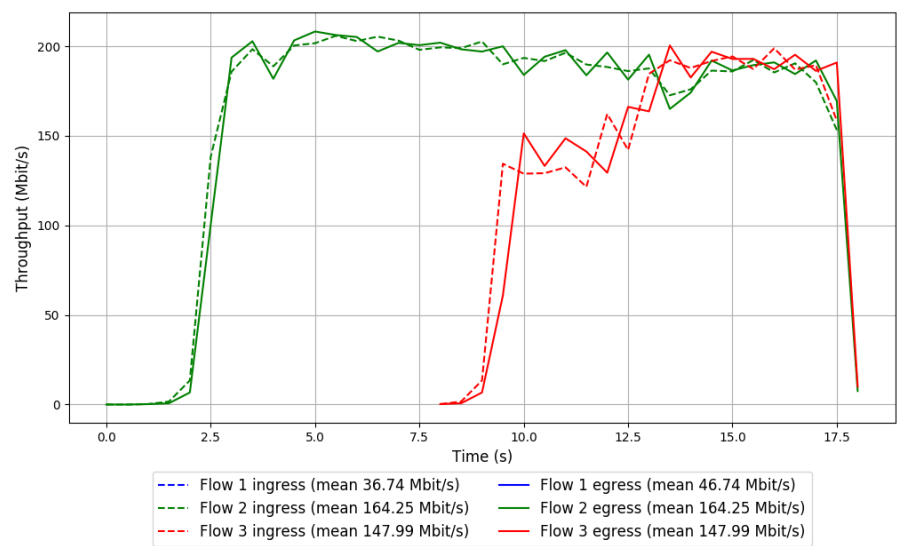
Start at: 2017-12-05 23:03:34

End at: 2017-12-05 23:04:04

Local clock offset: -2.948 ms

Remote clock offset: 3.468 ms

Run 3: Report of Indigo — Data Link

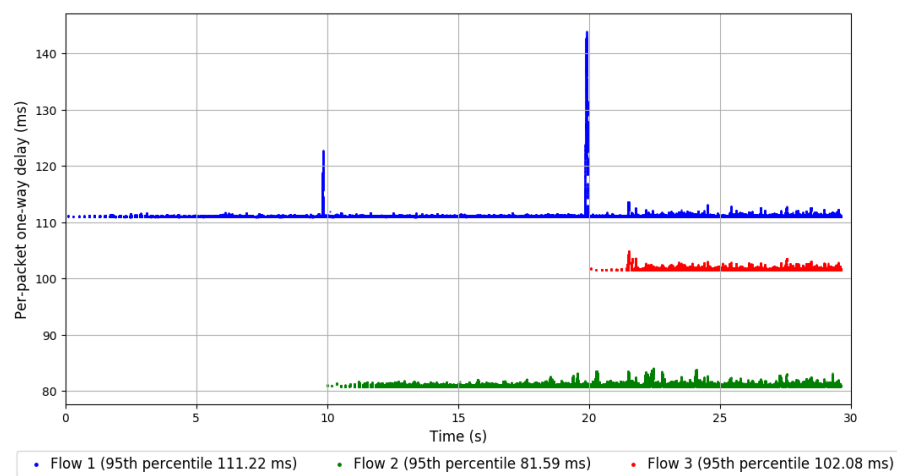
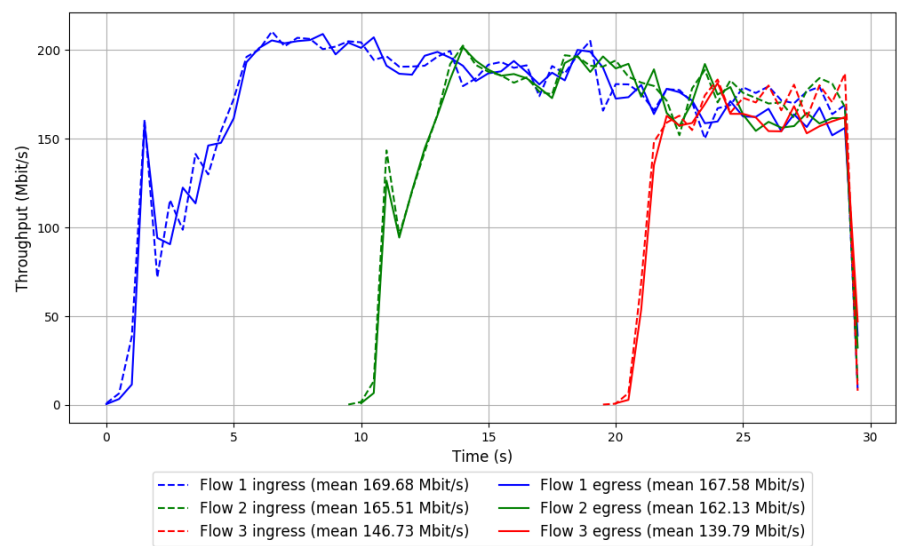


Run 4: Statistics of Indigo

Start at: 2017-12-05 23:23:52
End at: 2017-12-05 23:24:22
Local clock offset: -2.248 ms
Remote clock offset: -3.501 ms

Below is generated by plot.py at 2017-12-06 03:24:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.46 Mbit/s
95th percentile per-packet one-way delay: 111.145 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 167.58 Mbit/s
95th percentile per-packet one-way delay: 111.225 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 162.13 Mbit/s
95th percentile per-packet one-way delay: 81.593 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 139.79 Mbit/s
95th percentile per-packet one-way delay: 102.078 ms
Loss rate: 4.73%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

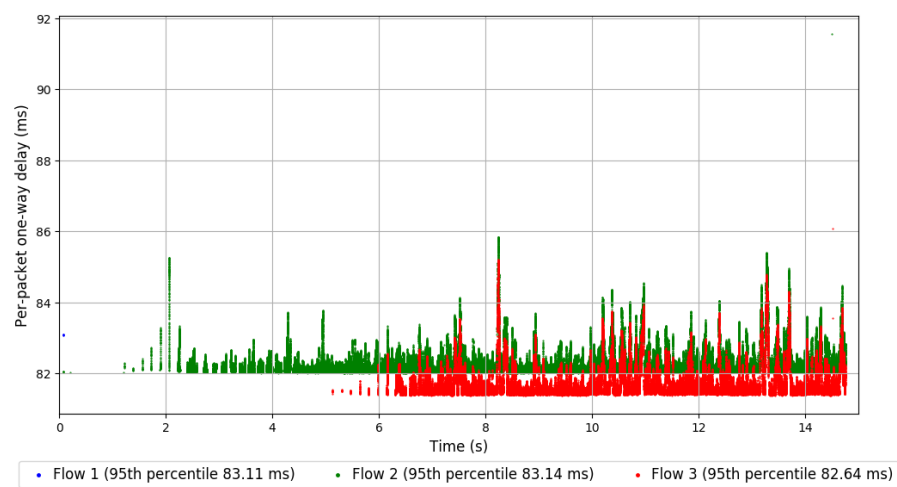
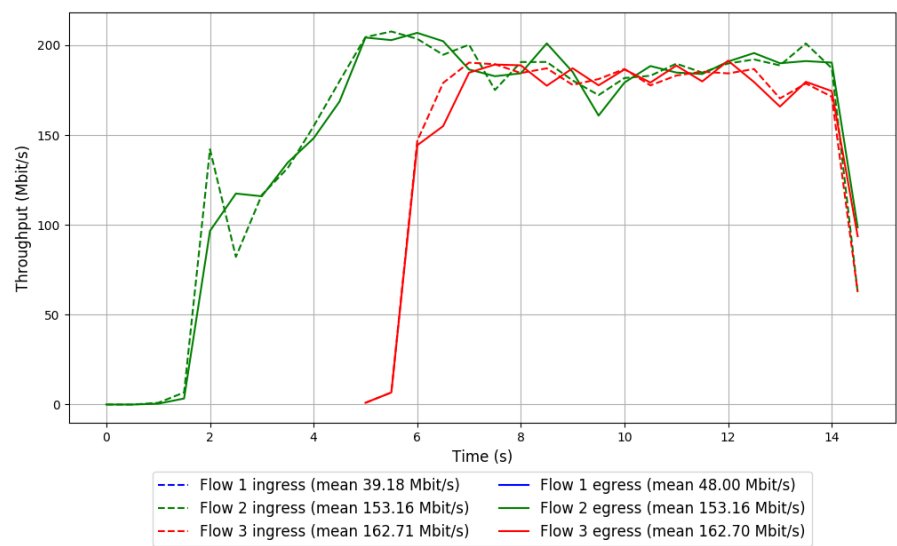
Start at: 2017-12-05 23:44:34

End at: 2017-12-05 23:45:04

Local clock offset: -1.649 ms

Remote clock offset: -3.129 ms

Run 5: Report of Indigo — Data Link

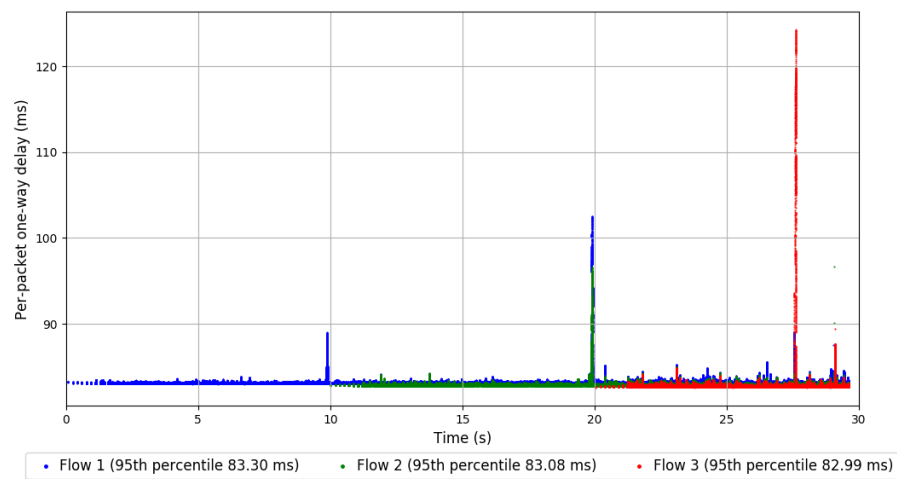
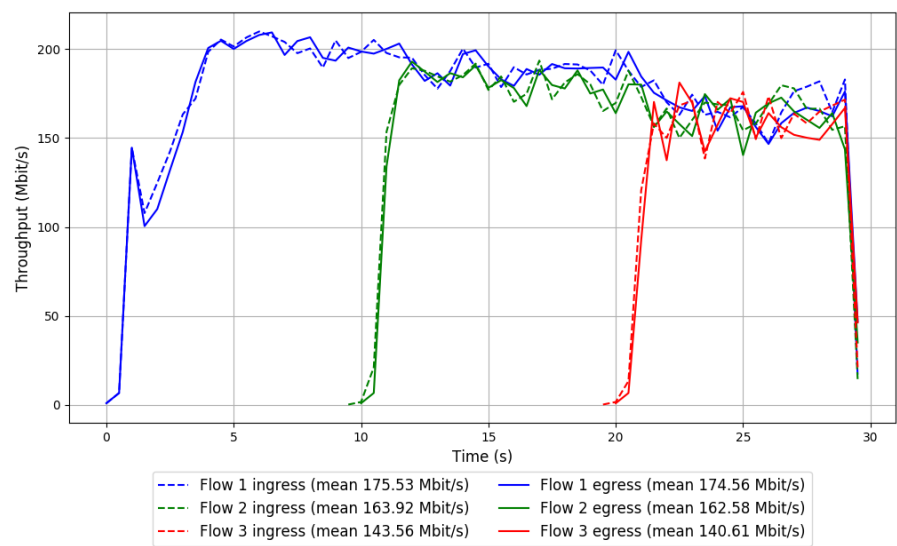


Run 6: Statistics of Indigo

Start at: 2017-12-06 00:04:49
End at: 2017-12-06 00:05:19
Local clock offset: -1.153 ms
Remote clock offset: -3.895 ms

Below is generated by plot.py at 2017-12-06 03:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.08 Mbit/s
95th percentile per-packet one-way delay: 83.242 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 174.56 Mbit/s
95th percentile per-packet one-way delay: 83.296 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 162.58 Mbit/s
95th percentile per-packet one-way delay: 83.081 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 140.61 Mbit/s
95th percentile per-packet one-way delay: 82.986 ms
Loss rate: 2.13%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

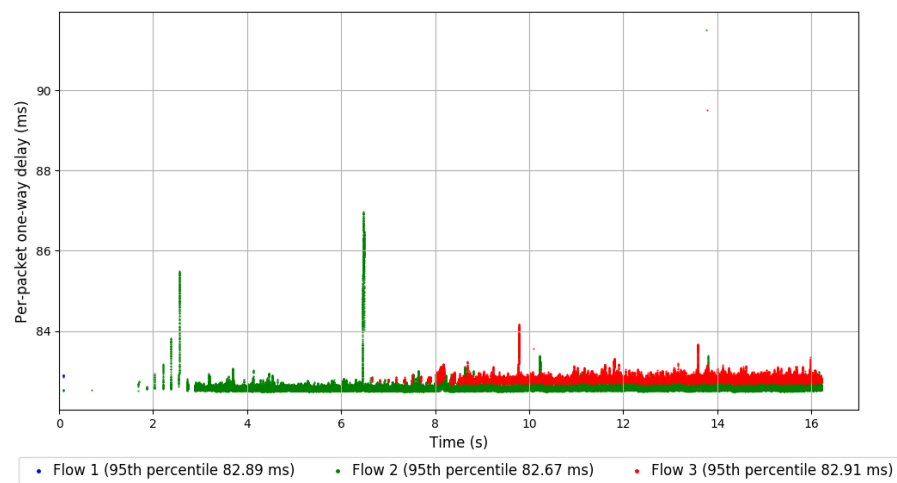
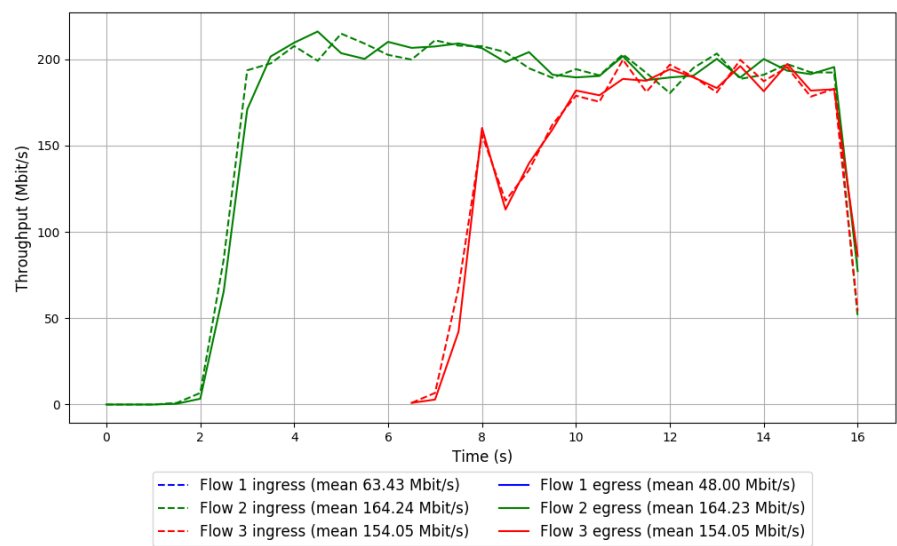
Start at: 2017-12-06 00:25:19

End at: 2017-12-06 00:25:49

Local clock offset: -0.732 ms

Remote clock offset: -4.151 ms

Run 7: Report of Indigo — Data Link

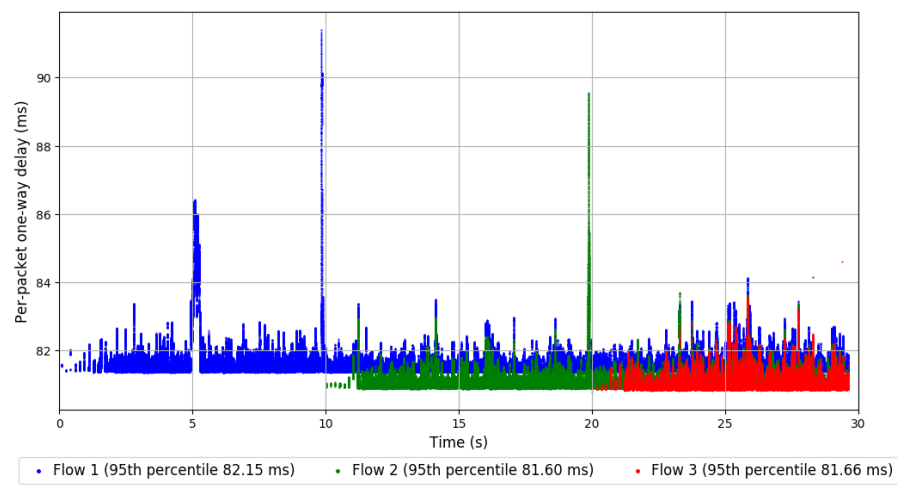
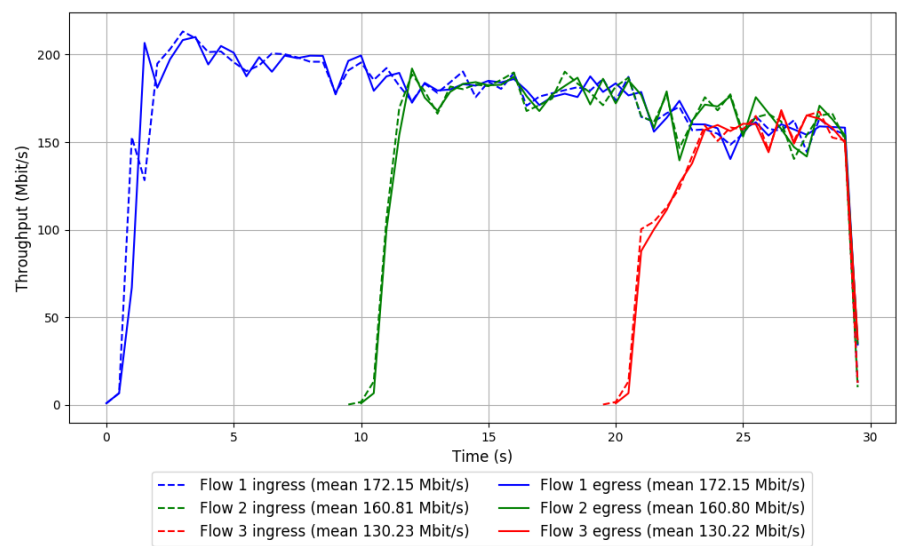


Run 8: Statistics of Indigo

Start at: 2017-12-06 00:45:19
End at: 2017-12-06 00:45:50
Local clock offset: -0.207 ms
Remote clock offset: -4.342 ms

Below is generated by plot.py at 2017-12-06 03:24:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 321.15 Mbit/s
95th percentile per-packet one-way delay: 81.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.15 Mbit/s
95th percentile per-packet one-way delay: 82.151 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.80 Mbit/s
95th percentile per-packet one-way delay: 81.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.22 Mbit/s
95th percentile per-packet one-way delay: 81.658 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

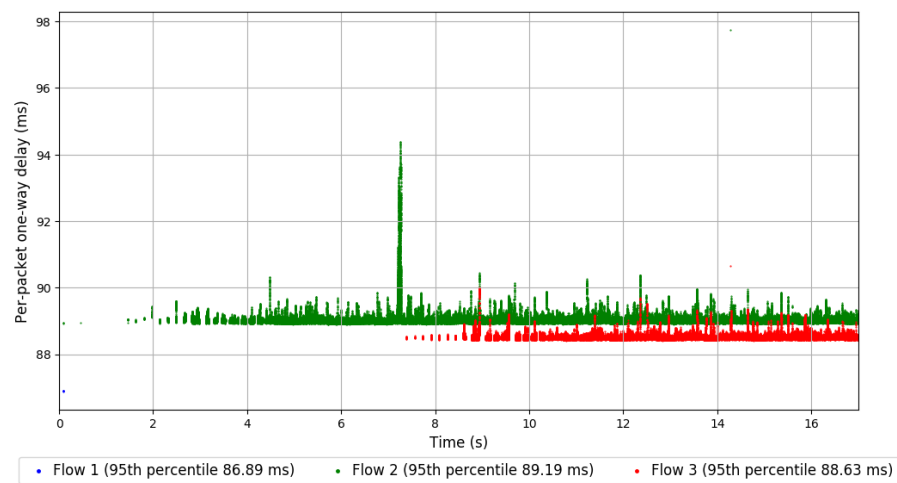
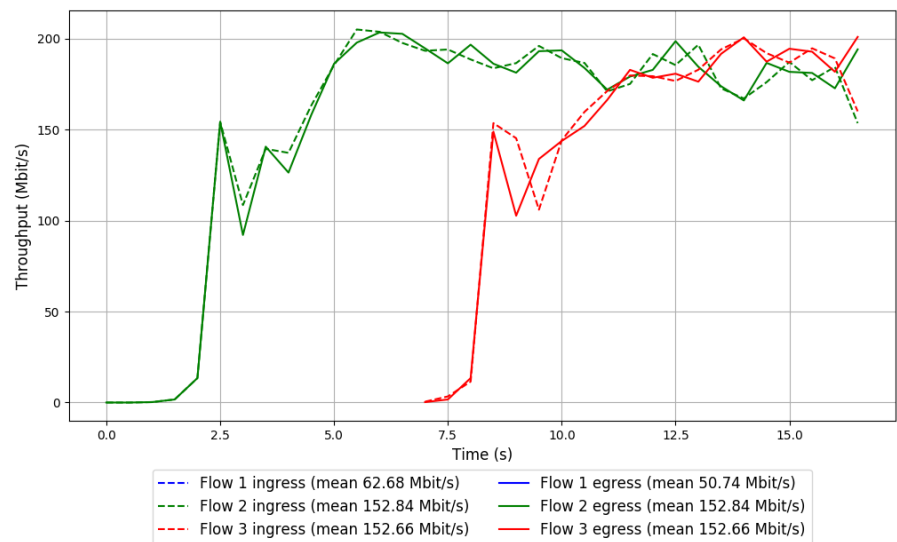
Start at: 2017-12-06 01:05:42

End at: 2017-12-06 01:06:12

Local clock offset: 0.28 ms

Remote clock offset: 1.525 ms

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

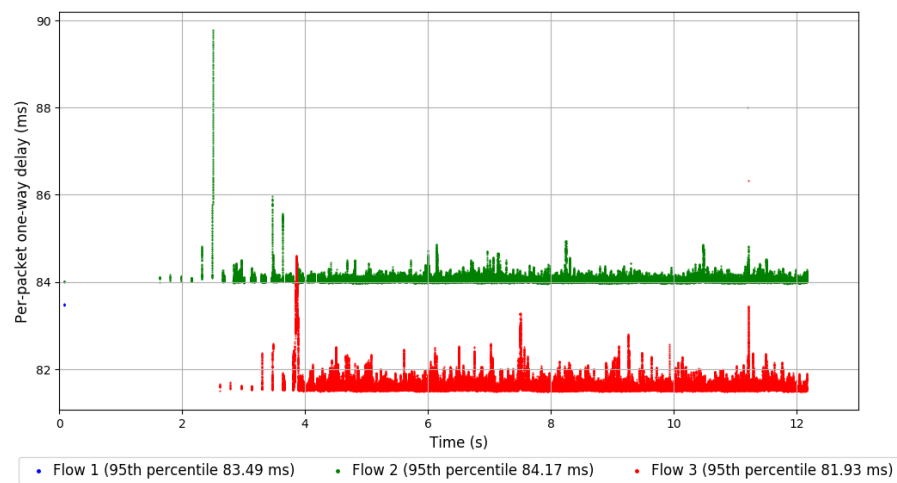
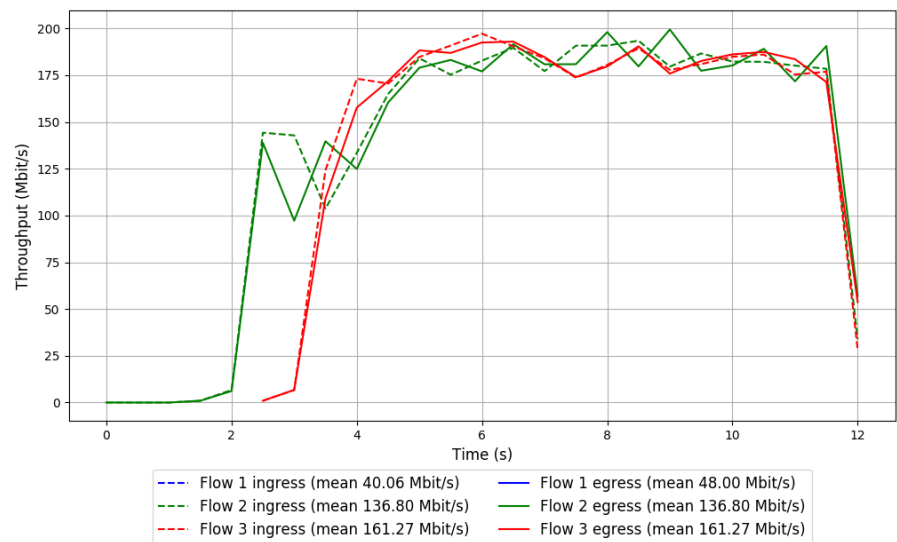
Start at: 2017-12-06 01:25:34

End at: 2017-12-06 01:26:04

Local clock offset: 0.517 ms

Remote clock offset: -3.341 ms

Run 10: Report of Indigo — Data Link

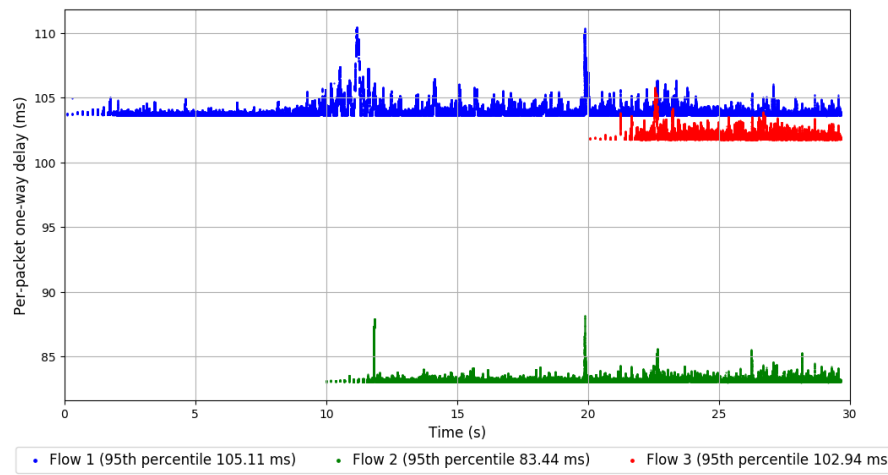
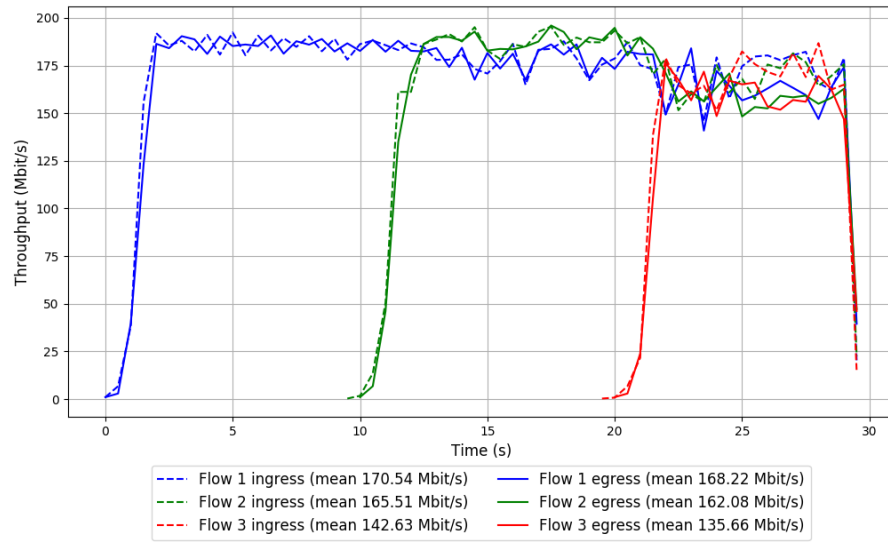


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 22:34:50
End at: 2017-12-05 22:35:20
Local clock offset: -2.244 ms
Remote clock offset: -3.027 ms

# Below is generated by plot.py at 2017-12-06 03:26:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.82 Mbit/s
95th percentile per-packet one-way delay: 104.594 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 168.22 Mbit/s
95th percentile per-packet one-way delay: 105.111 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 162.08 Mbit/s
95th percentile per-packet one-way delay: 83.440 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 135.66 Mbit/s
95th percentile per-packet one-way delay: 102.936 ms
Loss rate: 5.08%
```

Run 1: Report of Indigo-calib — Data Link

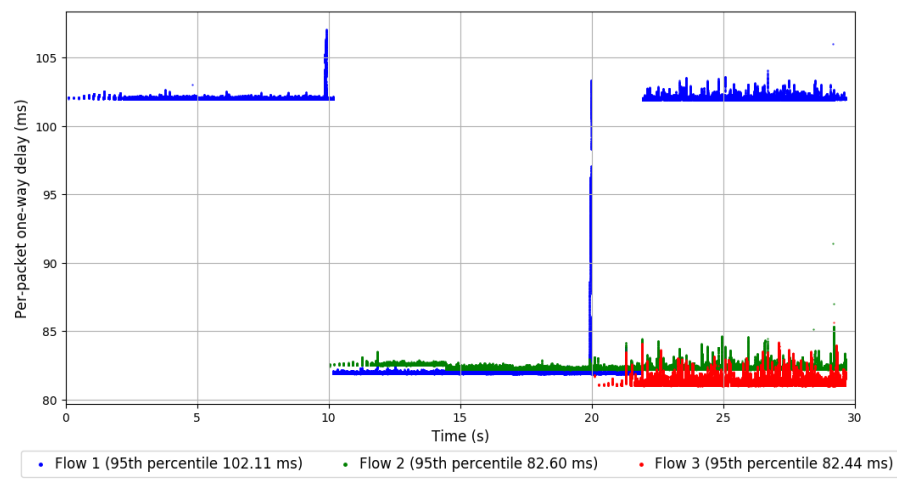
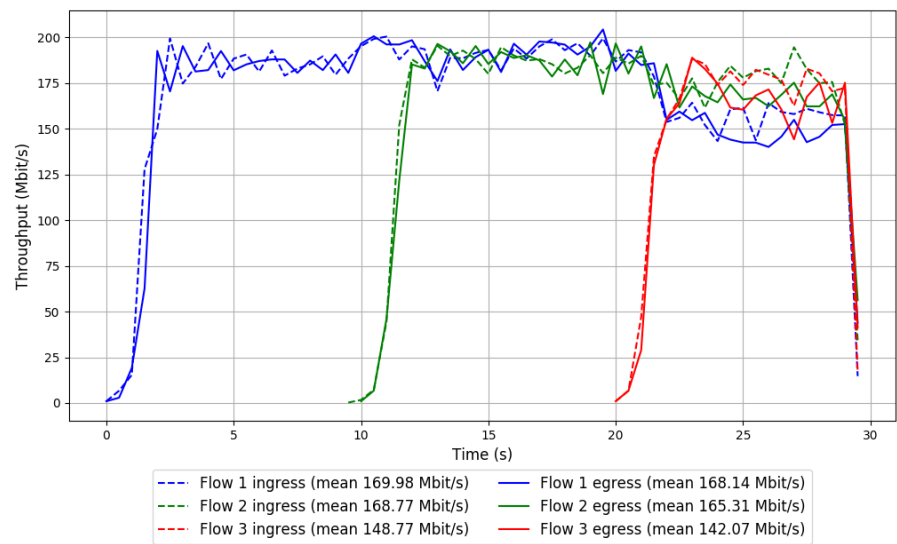


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 22:54:50
End at: 2017-12-05 22:55:20
Local clock offset: -2.993 ms
Remote clock offset: -3.582 ms

# Below is generated by plot.py at 2017-12-06 03:26:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.69 Mbit/s
95th percentile per-packet one-way delay: 102.049 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 168.14 Mbit/s
95th percentile per-packet one-way delay: 102.105 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 165.31 Mbit/s
95th percentile per-packet one-way delay: 82.604 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 142.07 Mbit/s
95th percentile per-packet one-way delay: 82.444 ms
Loss rate: 4.50%
```

Run 2: Report of Indigo-calib — Data Link

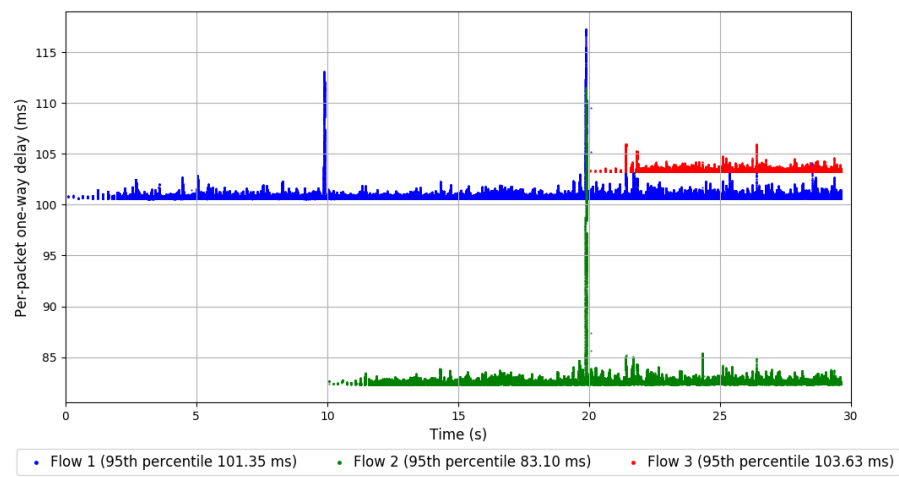
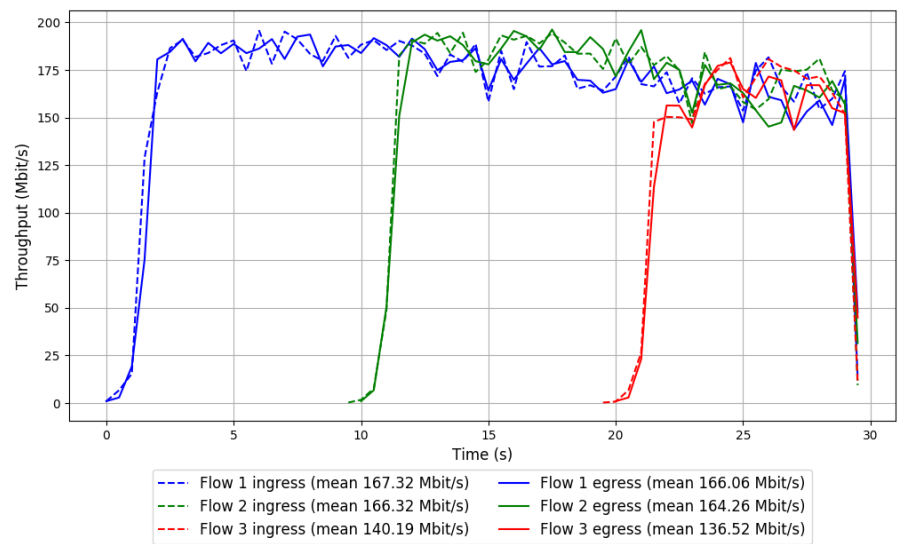


Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 23:15:08
End at: 2017-12-05 23:15:38
Local clock offset: -2.518 ms
Remote clock offset: -2.404 ms

Below is generated by plot.py at 2017-12-06 03:26:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.09 Mbit/s
95th percentile per-packet one-way delay: 103.363 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 166.06 Mbit/s
95th percentile per-packet one-way delay: 101.346 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 164.26 Mbit/s
95th percentile per-packet one-way delay: 83.102 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 136.52 Mbit/s
95th percentile per-packet one-way delay: 103.627 ms
Loss rate: 2.61%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 23:35:46

End at: 2017-12-05 23:36:16

Local clock offset: -1.954 ms

Remote clock offset: 1.015 ms

Below is generated by plot.py at 2017-12-06 03:27:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.00 Mbit/s

95th percentile per-packet one-way delay: 88.171 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 173.92 Mbit/s

95th percentile per-packet one-way delay: 87.995 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 164.72 Mbit/s

95th percentile per-packet one-way delay: 88.675 ms

Loss rate: 2.77%

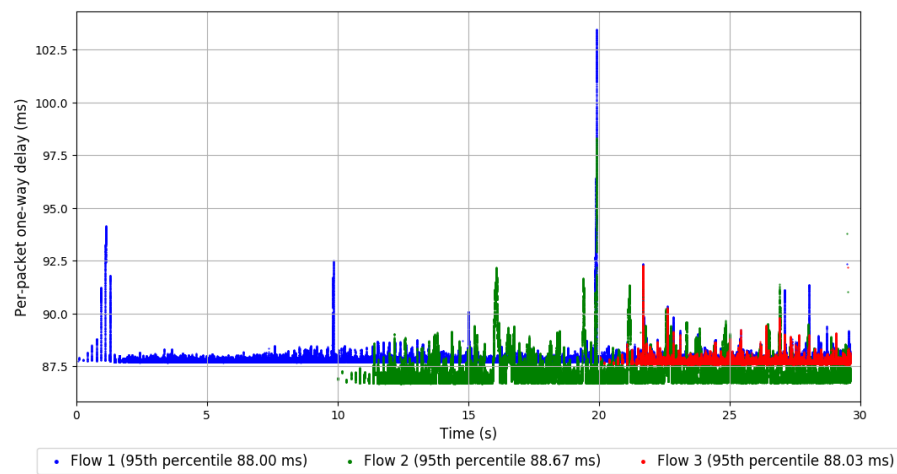
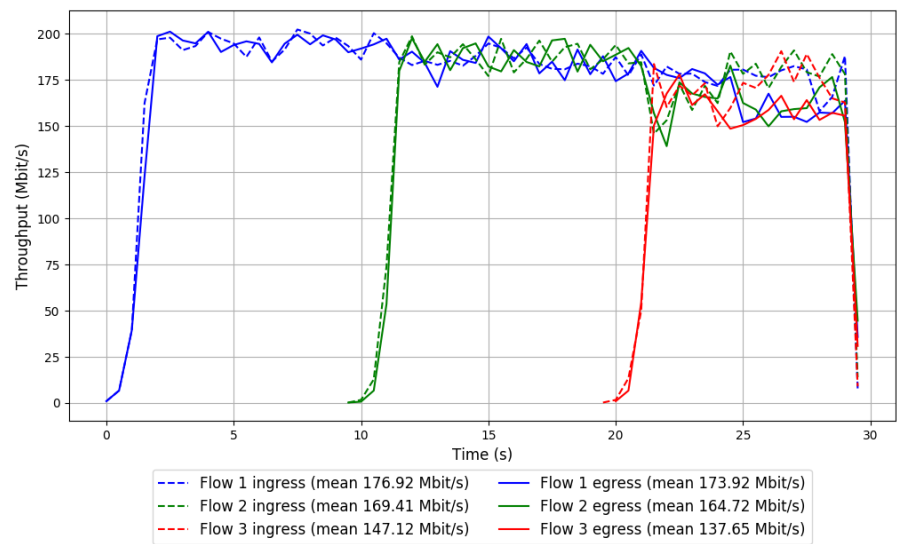
-- Flow 3:

Average throughput: 137.65 Mbit/s

95th percentile per-packet one-way delay: 88.035 ms

Loss rate: 6.43%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 23:56:01

End at: 2017-12-05 23:56:31

Local clock offset: -1.324 ms

Remote clock offset: 1.192 ms

Below is generated by plot.py at 2017-12-06 03:27:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.04 Mbit/s

95th percentile per-packet one-way delay: 87.890 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 176.74 Mbit/s

95th percentile per-packet one-way delay: 87.497 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 162.22 Mbit/s

95th percentile per-packet one-way delay: 88.276 ms

Loss rate: 1.37%

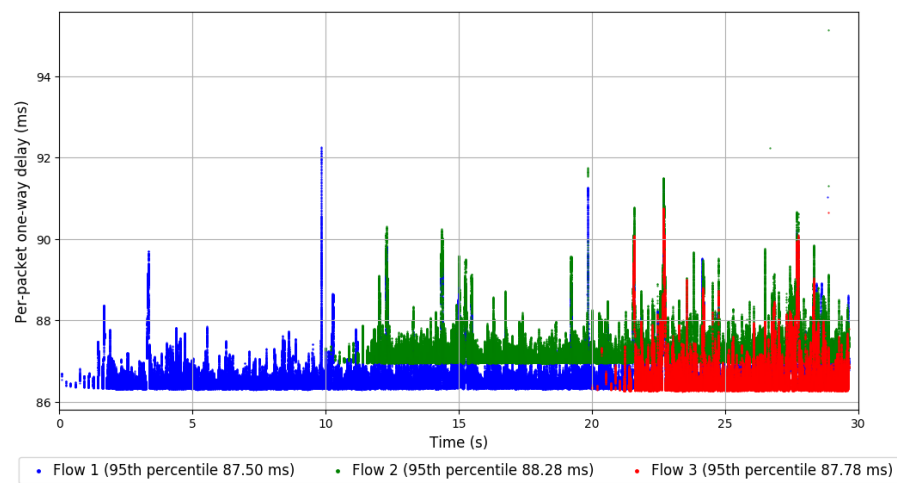
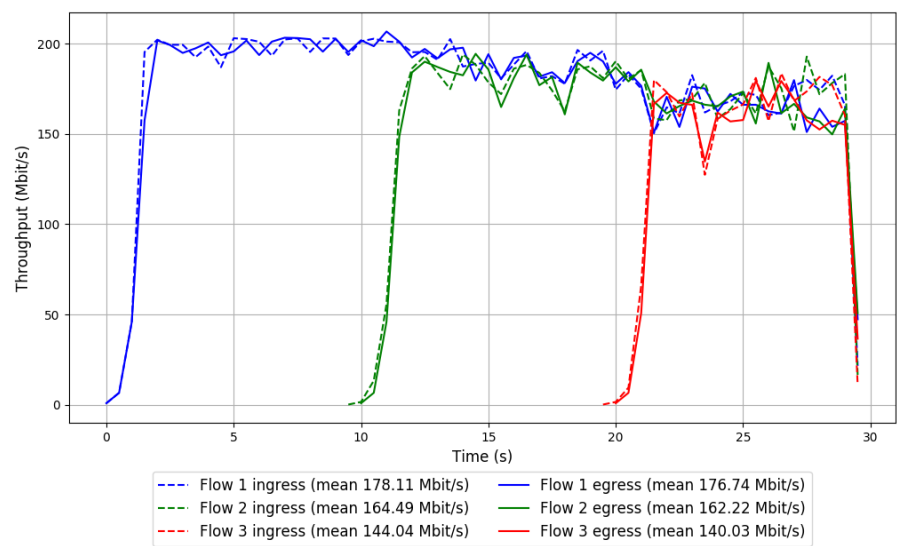
-- Flow 3:

Average throughput: 140.03 Mbit/s

95th percentile per-packet one-way delay: 87.783 ms

Loss rate: 2.77%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 00:16:34

End at: 2017-12-06 00:17:04

Local clock offset: -0.87 ms

Remote clock offset: 1.265 ms

Below is generated by plot.py at 2017-12-06 03:28:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.85 Mbit/s

95th percentile per-packet one-way delay: 90.507 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 174.82 Mbit/s

95th percentile per-packet one-way delay: 90.268 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 160.09 Mbit/s

95th percentile per-packet one-way delay: 91.460 ms

Loss rate: 0.55%

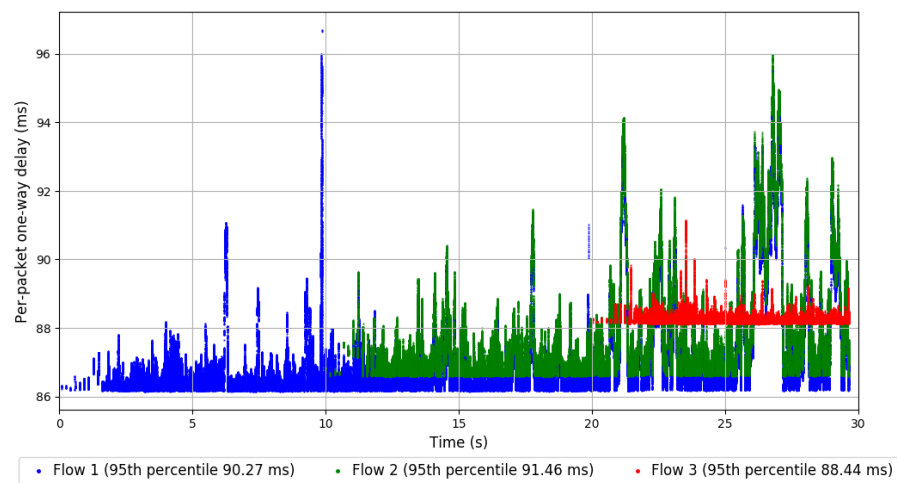
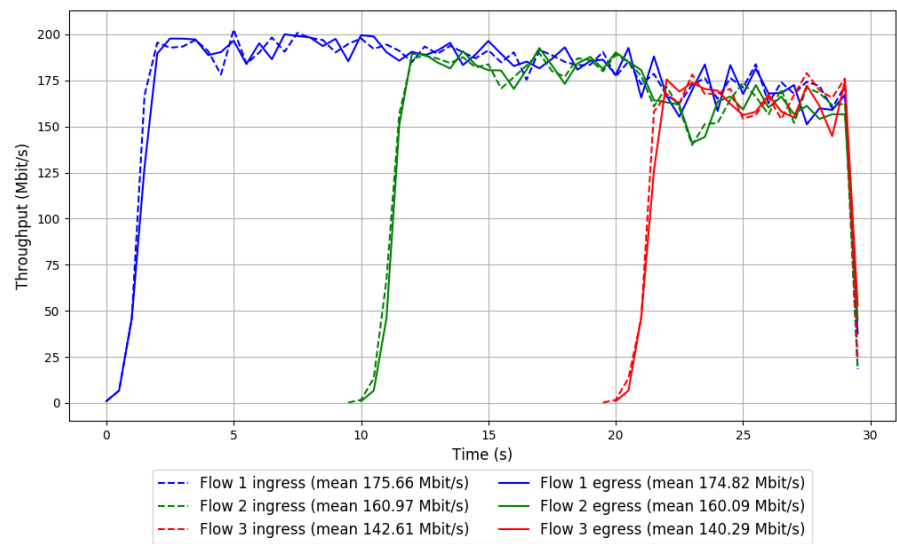
-- Flow 3:

Average throughput: 140.29 Mbit/s

95th percentile per-packet one-way delay: 88.443 ms

Loss rate: 1.63%

Run 6: Report of Indigo-calib — Data Link

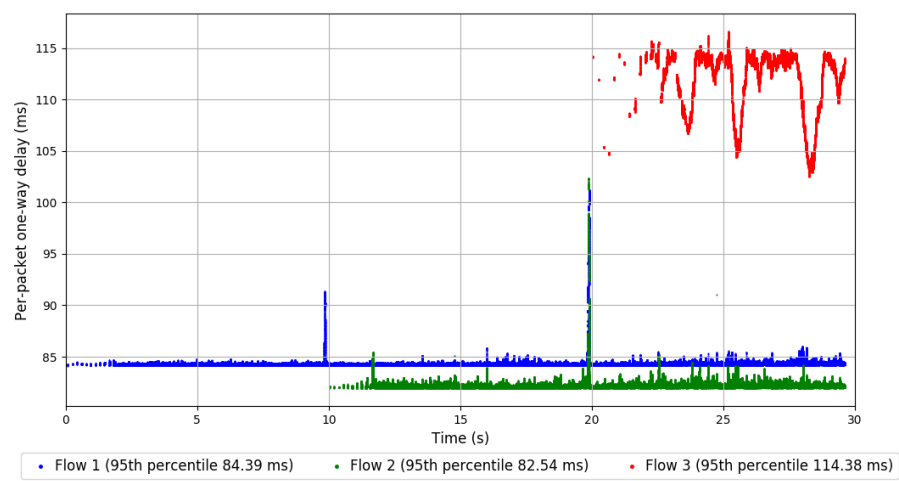
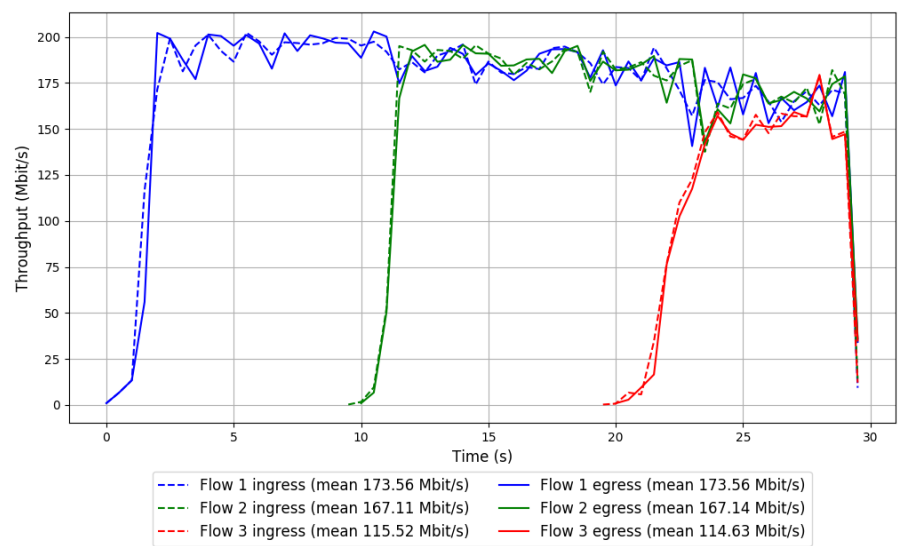


Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 00:36:43
End at: 2017-12-06 00:37:13
Local clock offset: -0.428 ms
Remote clock offset: -3.243 ms

Below is generated by plot.py at 2017-12-06 03:28:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 321.52 Mbit/s
95th percentile per-packet one-way delay: 113.579 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 173.56 Mbit/s
95th percentile per-packet one-way delay: 84.386 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 167.14 Mbit/s
95th percentile per-packet one-way delay: 82.543 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.63 Mbit/s
95th percentile per-packet one-way delay: 114.377 ms
Loss rate: 1.09%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 00:56:59

End at: 2017-12-06 00:57:29

Local clock offset: 0.008 ms

Remote clock offset: 0.562 ms

Below is generated by plot.py at 2017-12-06 03:28:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.96 Mbit/s

95th percentile per-packet one-way delay: 91.610 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 172.40 Mbit/s

95th percentile per-packet one-way delay: 91.766 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 160.45 Mbit/s

95th percentile per-packet one-way delay: 91.829 ms

Loss rate: 1.11%

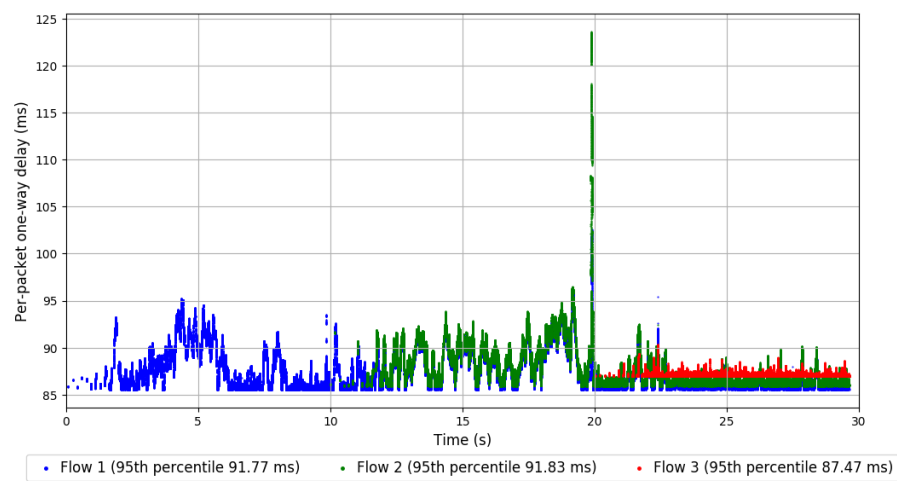
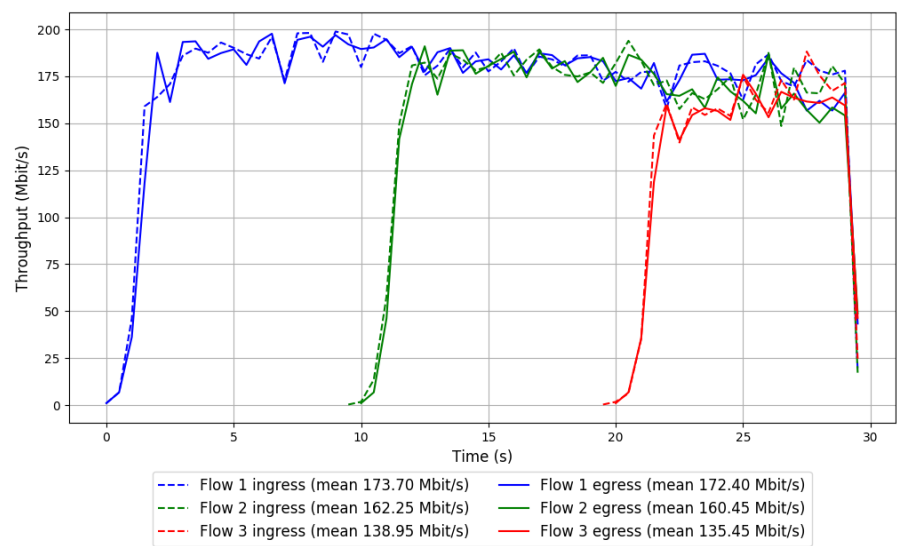
-- Flow 3:

Average throughput: 135.45 Mbit/s

95th percentile per-packet one-way delay: 87.474 ms

Loss rate: 2.51%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 01:16:54

End at: 2017-12-06 01:17:24

Local clock offset: 0.448 ms

Remote clock offset: 1.51 ms

Below is generated by plot.py at 2017-12-06 03:28:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.64 Mbit/s

95th percentile per-packet one-way delay: 88.666 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 174.18 Mbit/s

95th percentile per-packet one-way delay: 87.687 ms

Loss rate: 1.60%

-- Flow 2:

Average throughput: 161.67 Mbit/s

95th percentile per-packet one-way delay: 87.773 ms

Loss rate: 2.53%

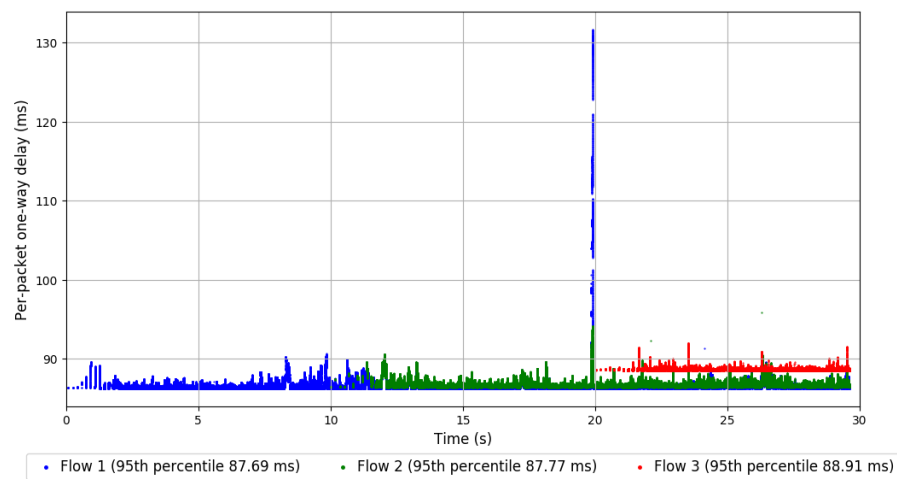
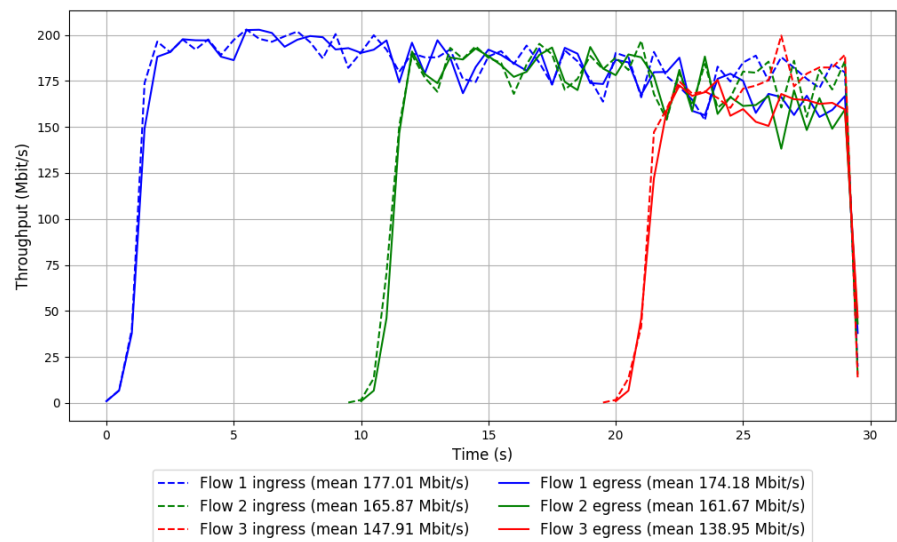
-- Flow 3:

Average throughput: 138.95 Mbit/s

95th percentile per-packet one-way delay: 88.909 ms

Loss rate: 6.06%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 01:37:01
End at: 2017-12-06 01:37:31
Local clock offset: 0.636 ms
Remote clock offset: 11.074 ms

Below is generated by plot.py at 2017-12-06 03:28:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.42 Mbit/s
95th percentile per-packet one-way delay: 96.171 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 175.44 Mbit/s
95th percentile per-packet one-way delay: 96.199 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 163.01 Mbit/s
95th percentile per-packet one-way delay: 96.115 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 134.73 Mbit/s
95th percentile per-packet one-way delay: 96.172 ms
Loss rate: 3.60%

Run 10: Report of Indigo-calib — Data Link

