

## Pantheon Report

Generated at 2017-12-06 02:37:23 (UTC).

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

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).

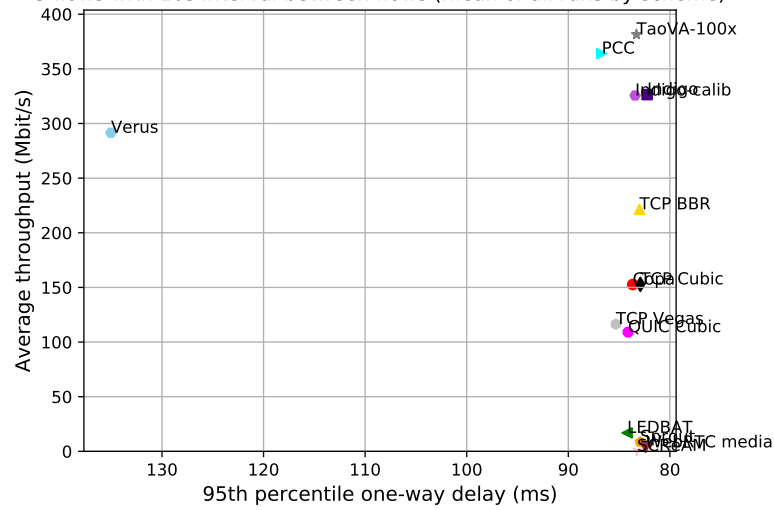
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

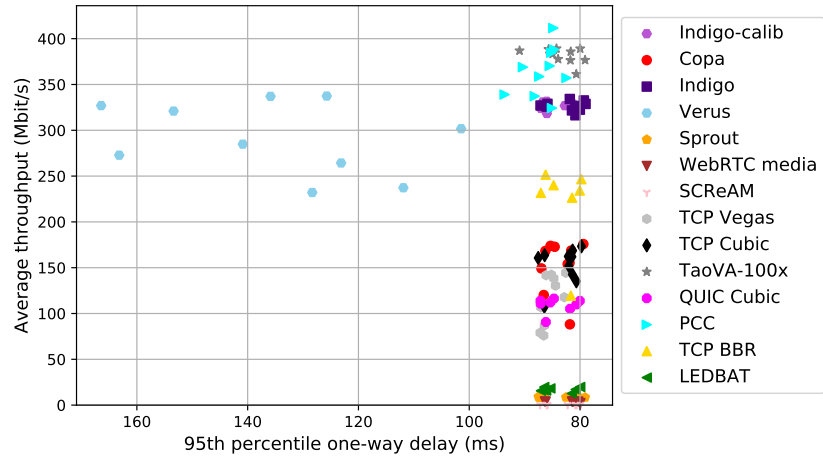
Git summary:

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



test from Colombia Ethernet to AWS Brazil 2 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	7	101.21	120.51	111.52	282.25	82.18	82.17	0.57	0.93	2.01
TCP Cubic	10	81.36	75.40	65.59	82.55	81.87	83.28	0.60	1.06	1.96
LEDBAT	8	10.56	7.81	3.64	83.23	83.18	83.43	0.90	1.77	3.65
PCC	10	283.09	66.87	112.17	86.94	85.75	85.99	9.38	12.27	17.25
QUIC Cubic	8	64.07	54.25	28.07	83.73	83.13	83.12	0.76	0.80	2.93
SCReAM	7	0.22	0.21	0.22	82.36	82.26	82.31	0.55	0.96	1.57
WebRTC media	7	1.84	1.34	0.49	82.26	81.58	82.01	0.61	0.65	2.62
Sprout	9	4.61	4.26	3.53	82.20	81.97	82.78	0.67	1.02	2.69
TaoVA-100x	10	221.75	197.49	118.78	83.22	82.89	82.39	2.07	3.88	8.15
TCP Vegas	10	58.34	57.39	61.13	84.85	83.98	85.10	0.59	0.97	1.90
Verus	10	194.22	105.10	86.24	132.87	113.30	118.02	6.10	9.08	15.29
Copa	10	80.91	78.50	76.52	82.90	82.74	82.83	0.65	1.01	2.81
Indigo	10	174.05	163.50	136.81	81.41	81.79	81.85	3.79	5.69	14.32
Indigo-calib	10	175.18	161.05	135.67	82.06	81.96	82.98	4.36	6.92	14.36

Run 1: Statistics of TCP BBR

Start at: 2017-12-05 19:14:24

End at: 2017-12-05 19:14:54

Local clock offset: 1.469 ms

Remote clock offset: 3.401 ms

# Below is generated by plot.py at 2017-12-06 01:46:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.51 Mbit/s

95th percentile per-packet one-way delay: 81.658 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 1478.883 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 120.97 Mbit/s

95th percentile per-packet one-way delay: 81.671 ms

Loss rate: 0.97%

-- Flow 3:

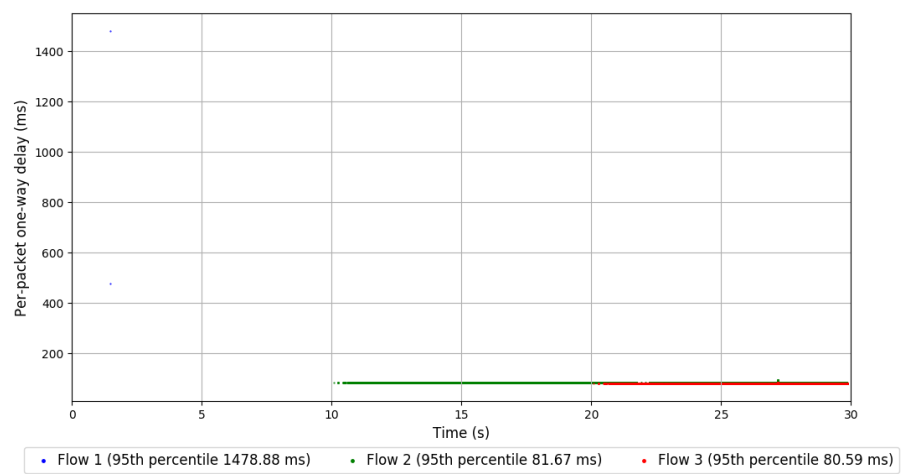
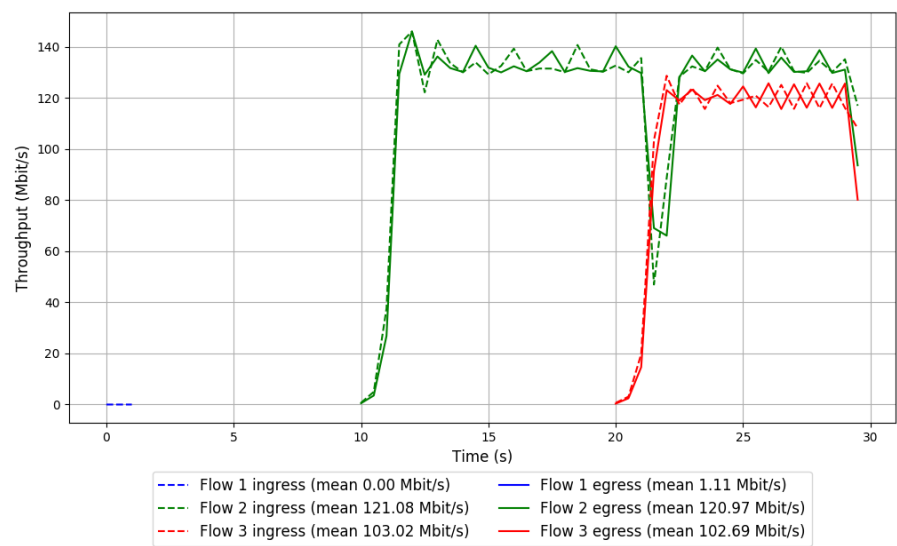
Average throughput: 102.69 Mbit/s

95th percentile per-packet one-way delay: 80.594 ms

Loss rate: 2.01%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-05 19:34:35

End at: 2017-12-05 19:35:05

Local clock offset: 1.597 ms

Remote clock offset: 4.034 ms

# Below is generated by plot.py at 2017-12-06 01:48:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 234.27 Mbit/s

95th percentile per-packet one-way delay: 80.048 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 114.07 Mbit/s

95th percentile per-packet one-way delay: 79.645 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 123.05 Mbit/s

95th percentile per-packet one-way delay: 80.124 ms

Loss rate: 0.95%

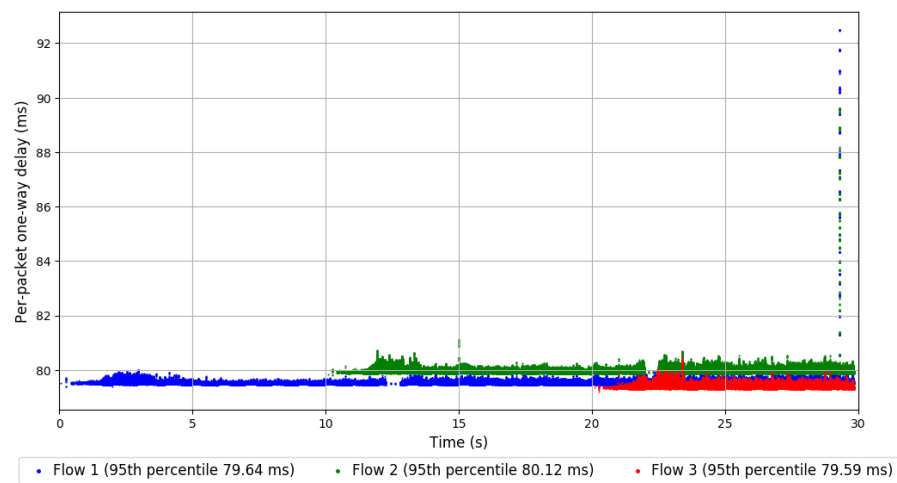
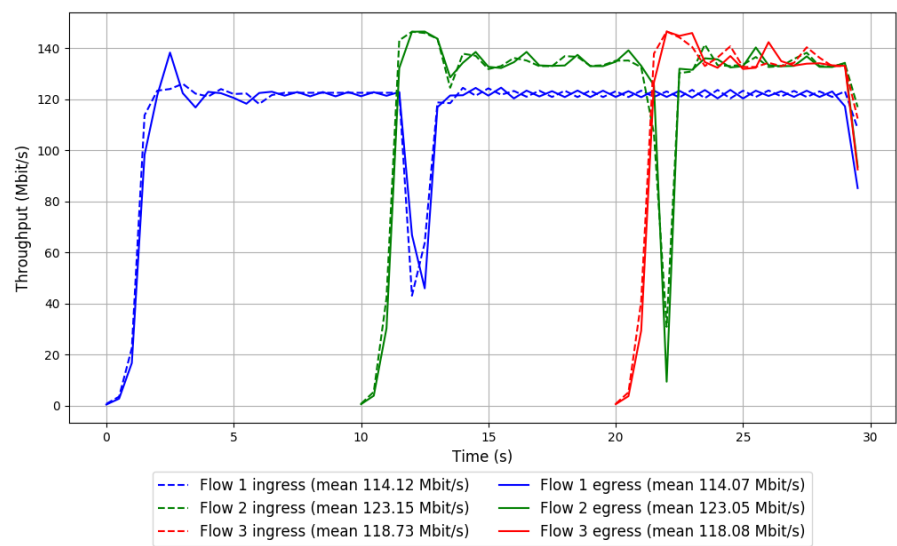
-- Flow 3:

Average throughput: 118.08 Mbit/s

95th percentile per-packet one-way delay: 79.591 ms

Loss rate: 1.92%

Run 2: Report of TCP BBR — Data Link

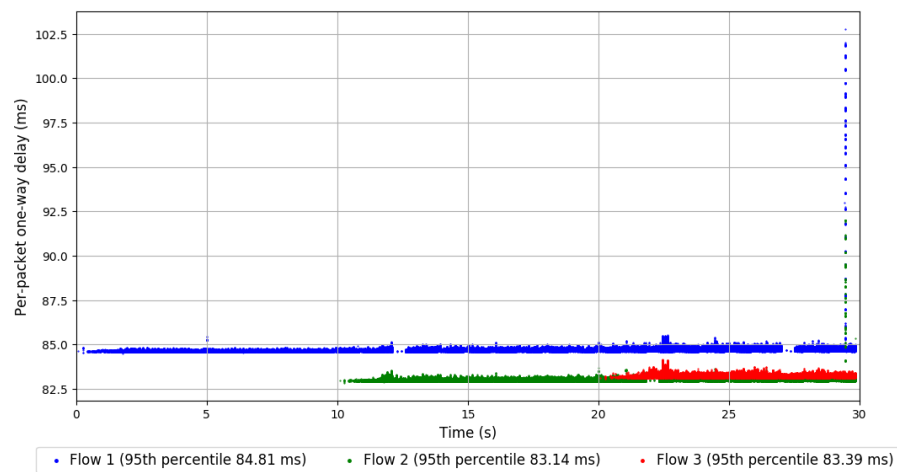
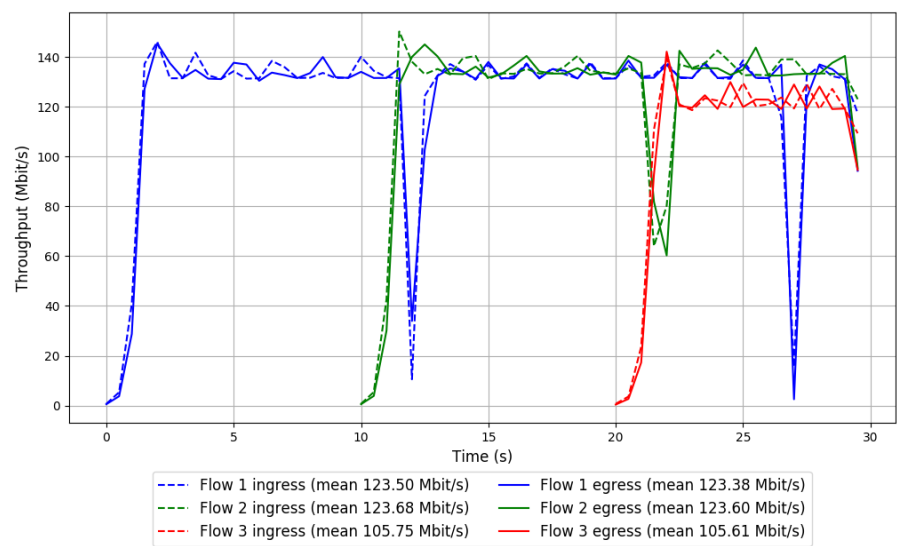


Run 3: Statistics of TCP BBR

Start at: 2017-12-05 19:54:58  
End at: 2017-12-05 19:55:28  
Local clock offset: 1.402 ms  
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2017-12-06 01:48:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 240.07 Mbit/s  
95th percentile per-packet one-way delay: 84.768 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 123.38 Mbit/s  
95th percentile per-packet one-way delay: 84.812 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 123.60 Mbit/s  
95th percentile per-packet one-way delay: 83.145 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 105.61 Mbit/s  
95th percentile per-packet one-way delay: 83.393 ms  
Loss rate: 1.81%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

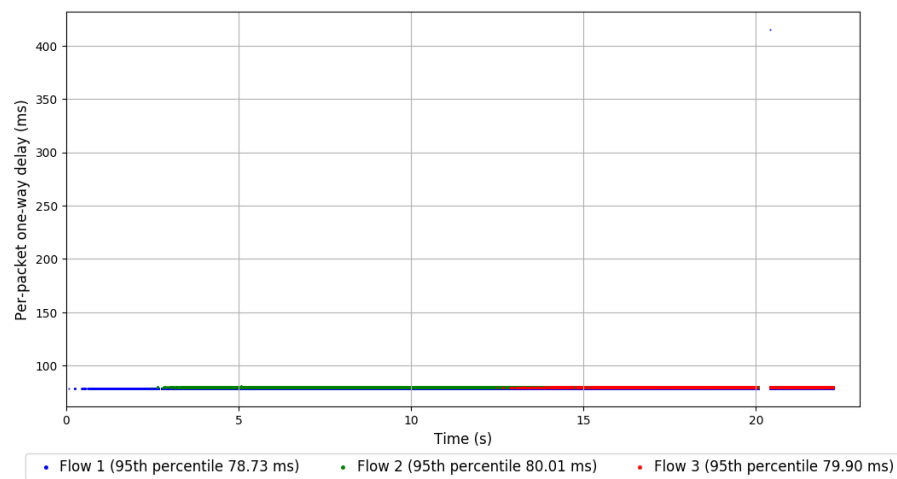
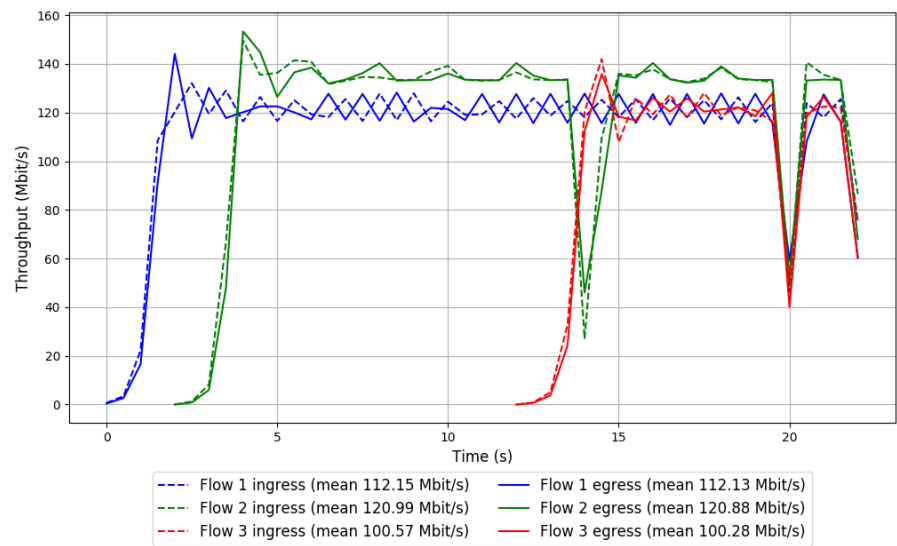
Start at: 2017-12-05 20:15:06

End at: 2017-12-05 20:15:36

Local clock offset: 1.123 ms

Remote clock offset: 5.749 ms

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-05 20:35:15

End at: 2017-12-05 20:35:45

Local clock offset: 0.682 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2017-12-06 01:48:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 251.56 Mbit/s

95th percentile per-packet one-way delay: 86.210 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 85.399 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 107.88 Mbit/s

95th percentile per-packet one-way delay: 86.054 ms

Loss rate: 0.97%

-- Flow 3:

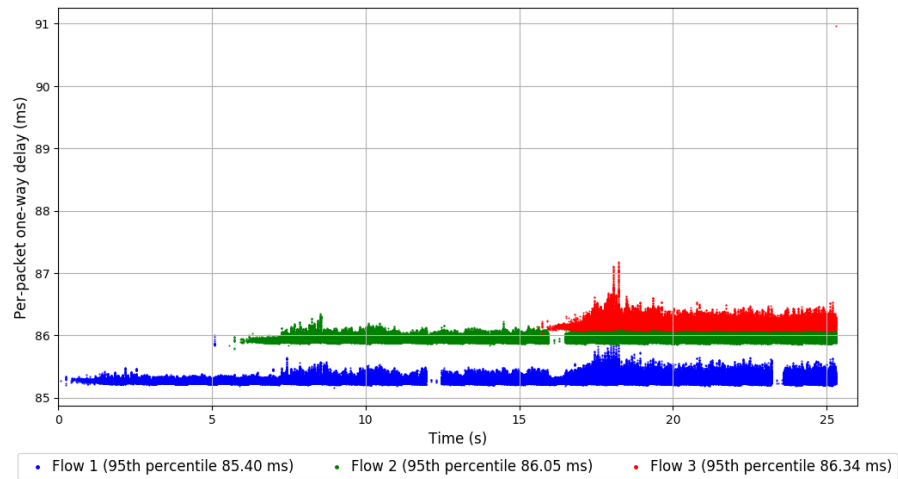
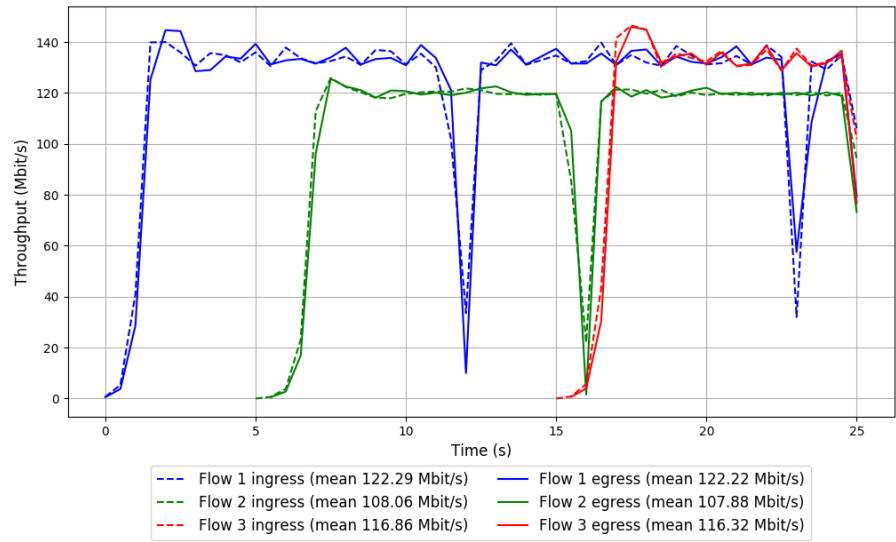
Average throughput: 116.32 Mbit/s

95th percentile per-packet one-way delay: 86.338 ms

Loss rate: 2.04%



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



Run 6: Statistics of TCP BBR

Start at: 2017-12-05 20:55:28

End at: 2017-12-05 20:55:58

Local clock offset: 0.253 ms

Remote clock offset: 4.606 ms

# Below is generated by plot.py at 2017-12-06 01:48:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 226.44 Mbit/s

95th percentile per-packet one-way delay: 81.434 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 112.13 Mbit/s

95th percentile per-packet one-way delay: 80.114 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 120.79 Mbit/s

95th percentile per-packet one-way delay: 81.487 ms

Loss rate: 0.93%

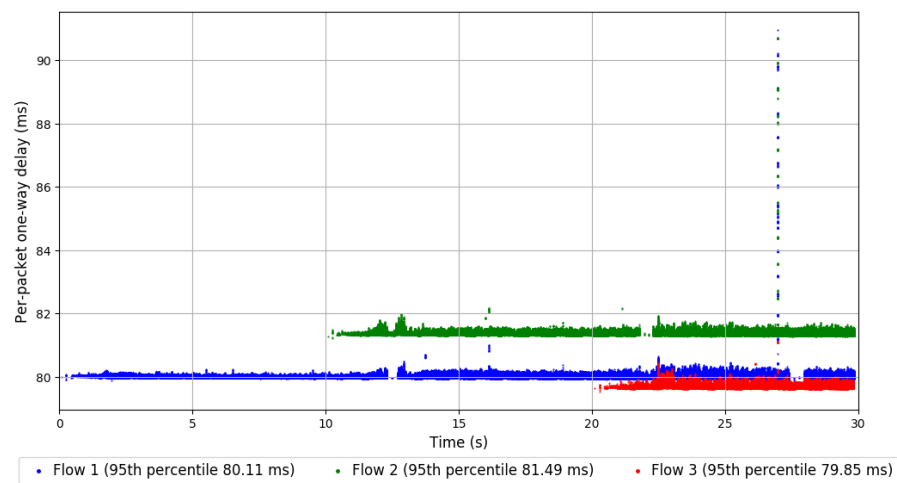
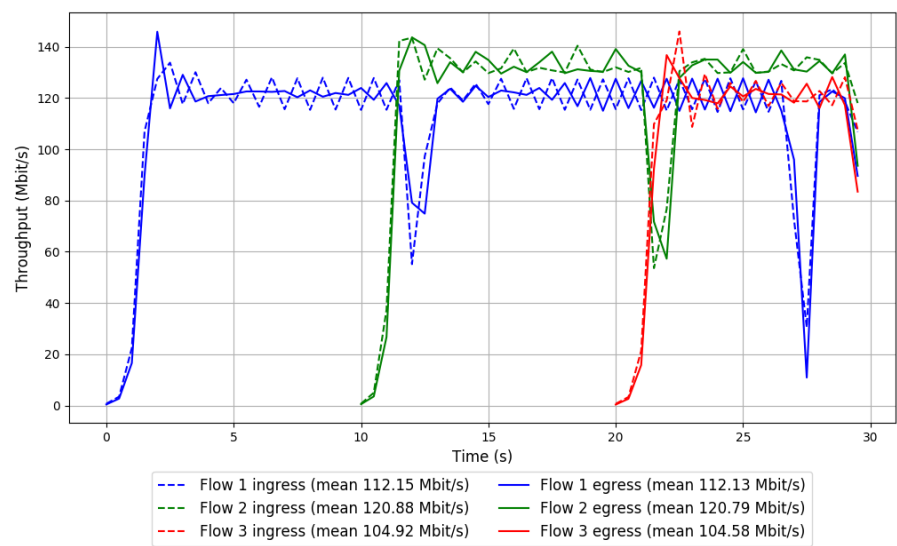
-- Flow 3:

Average throughput: 104.58 Mbit/s

95th percentile per-packet one-way delay: 79.854 ms

Loss rate: 2.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

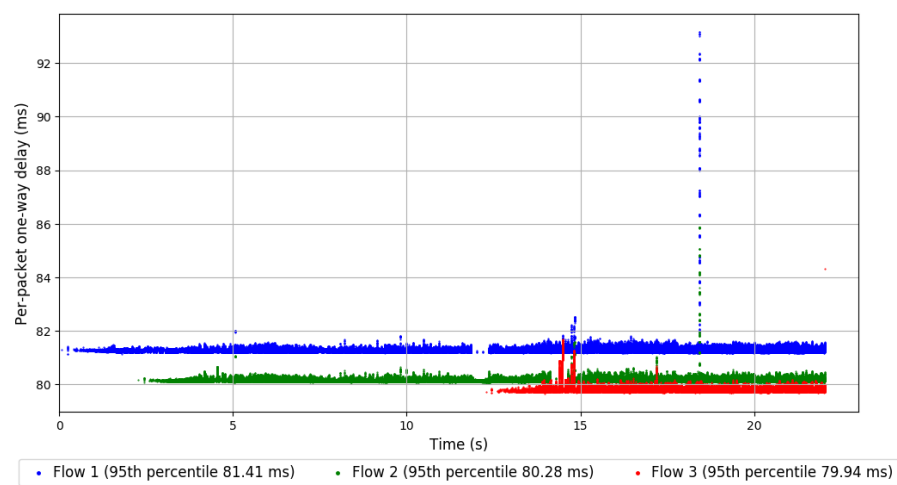
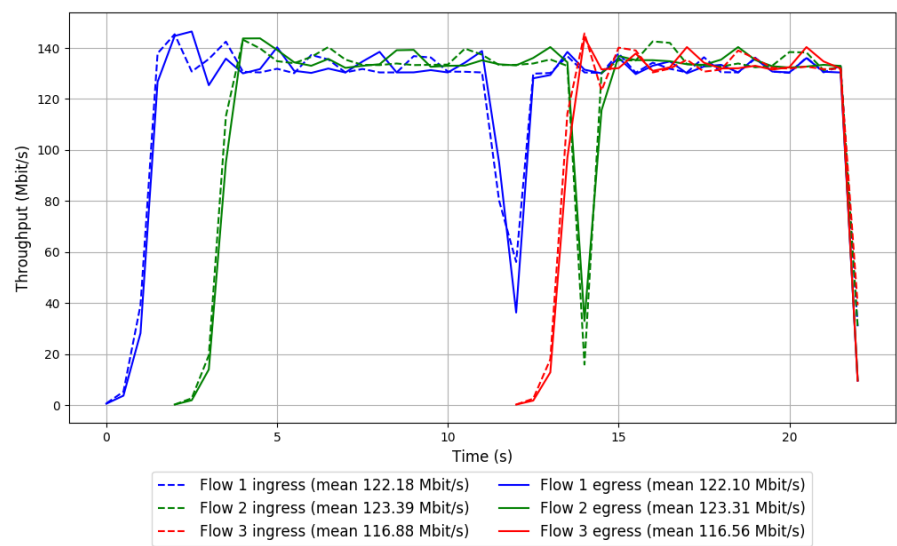
Start at: 2017-12-05 21:15:45

End at: 2017-12-05 21:16:15

Local clock offset: 0.062 ms

Remote clock offset: 2.996 ms

Run 7: Report of TCP BBR — Data Link

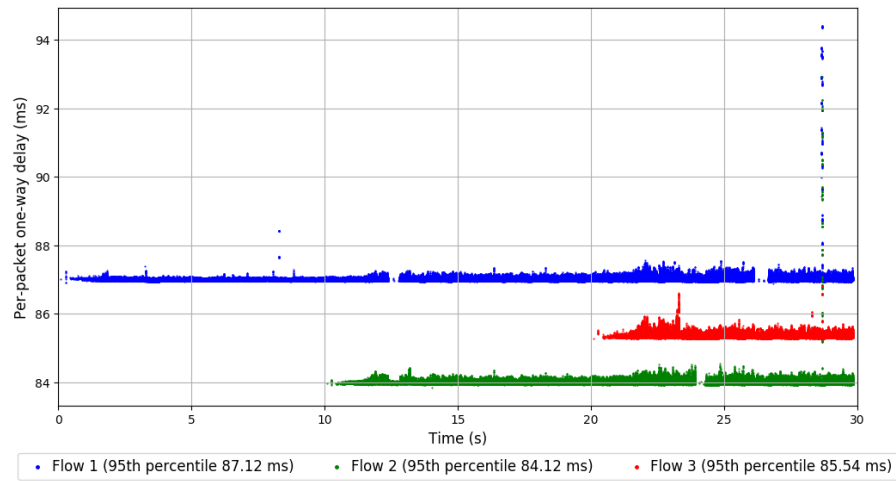
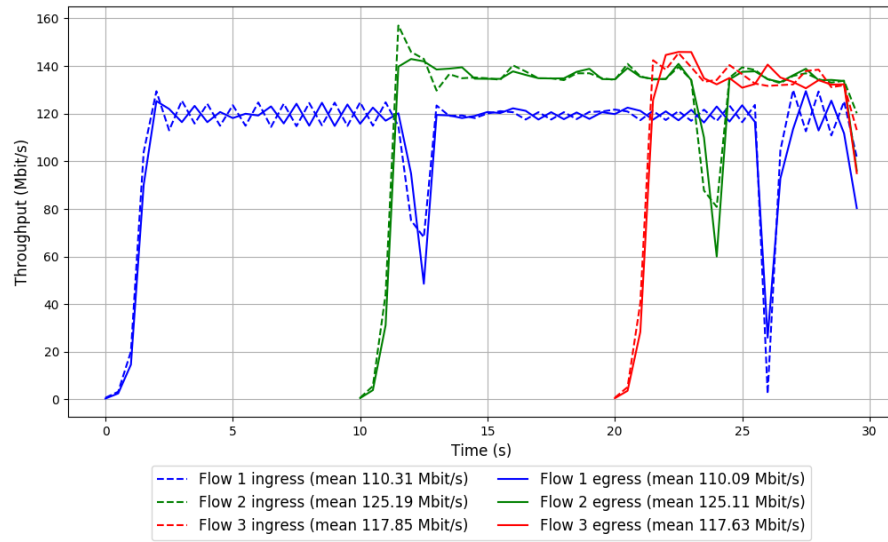


Run 8: Statistics of TCP BBR

Start at: 2017-12-05 21:35:36  
End at: 2017-12-05 21:36:06  
Local clock offset: -0.108 ms  
Remote clock offset: -3.062 ms

# Below is generated by plot.py at 2017-12-06 01:48:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 231.67 Mbit/s  
95th percentile per-packet one-way delay: 87.078 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 110.09 Mbit/s  
95th percentile per-packet one-way delay: 87.119 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 125.11 Mbit/s  
95th percentile per-packet one-way delay: 84.123 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 117.63 Mbit/s  
95th percentile per-packet one-way delay: 85.538 ms  
Loss rate: 1.90%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-05 21:55:45

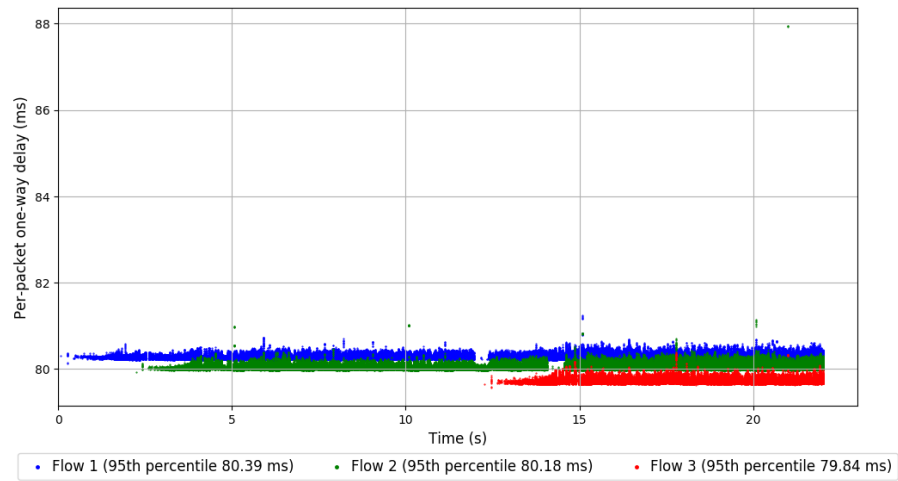
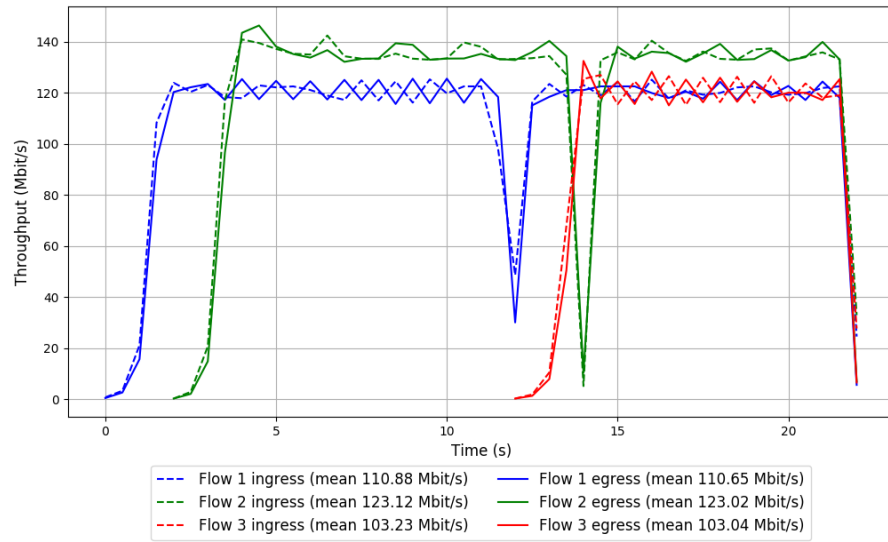
End at: 2017-12-05 21:56:15

Local clock offset: -0.769 ms

Remote clock offset: 2.105 ms



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-05 22:16:03

End at: 2017-12-05 22:16:33

Local clock offset: -1.548 ms

Remote clock offset: 1.276 ms

# Below is generated by plot.py at 2017-12-06 01:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 246.63 Mbit/s

95th percentile per-packet one-way delay: 79.769 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 125.49 Mbit/s

95th percentile per-packet one-way delay: 79.774 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 78.683 ms

Loss rate: 0.92%

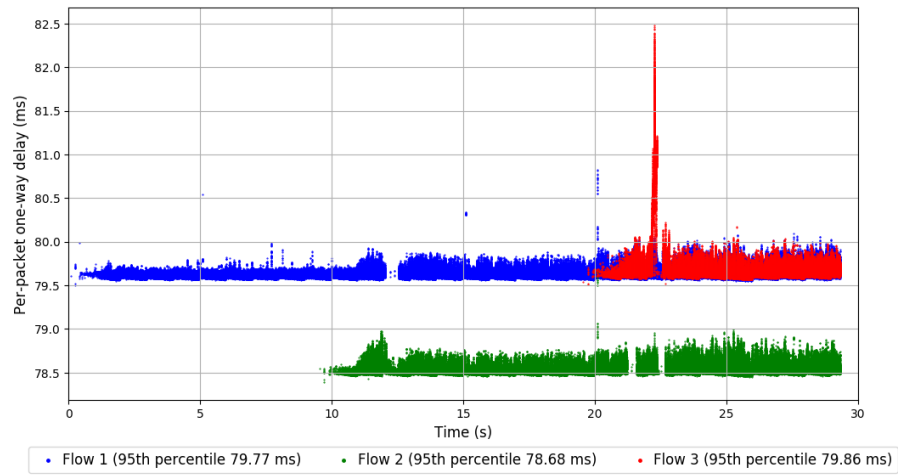
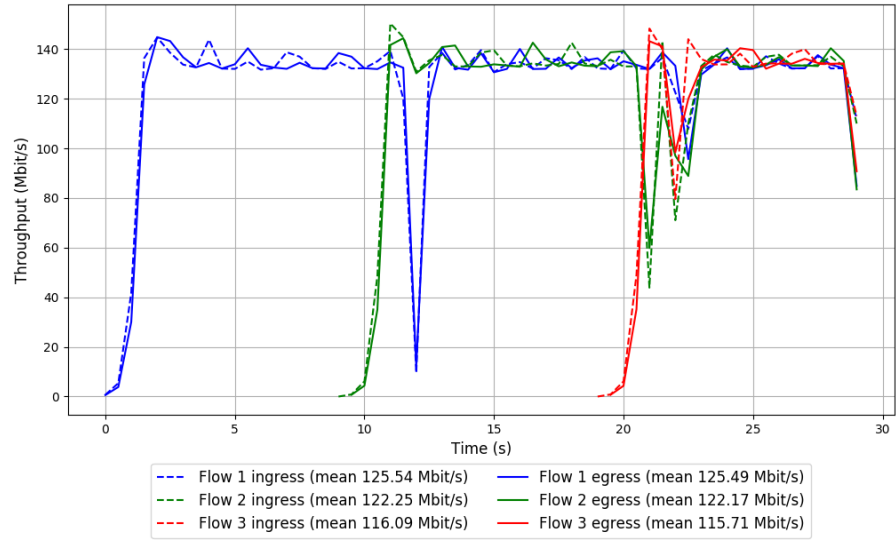
-- Flow 3:

Average throughput: 115.71 Mbit/s

95th percentile per-packet one-way delay: 79.861 ms

Loss rate: 2.06%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 19:09:14

End at: 2017-12-05 19:09:44

Local clock offset: 1.543 ms

Remote clock offset: 3.719 ms

# Below is generated by plot.py at 2017-12-06 01:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.63 Mbit/s

95th percentile per-packet one-way delay: 81.386 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 81.520 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 78.899 ms

Loss rate: 0.78%

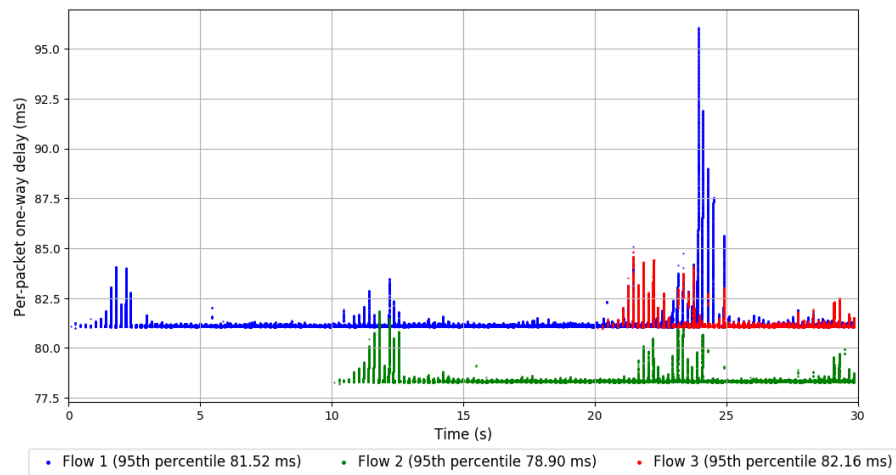
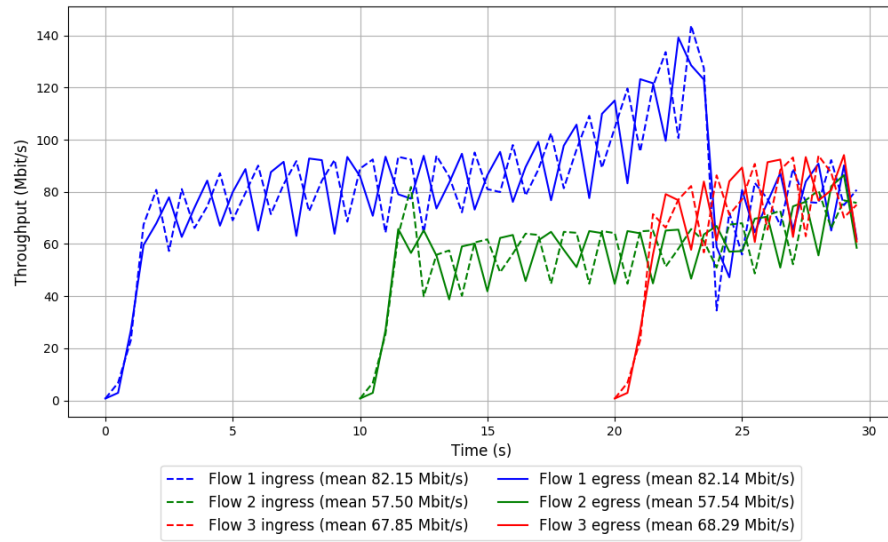
-- Flow 3:

Average throughput: 68.29 Mbit/s

95th percentile per-packet one-way delay: 82.161 ms

Loss rate: 1.07%

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



Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 19:29:23

End at: 2017-12-05 19:29:53

Local clock offset: 1.524 ms

Remote clock offset: 3.536 ms

# Below is generated by plot.py at 2017-12-06 01:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 168.66 Mbit/s

95th percentile per-packet one-way delay: 81.342 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 91.24 Mbit/s

95th percentile per-packet one-way delay: 81.274 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 79.55 Mbit/s

95th percentile per-packet one-way delay: 79.863 ms

Loss rate: 1.13%

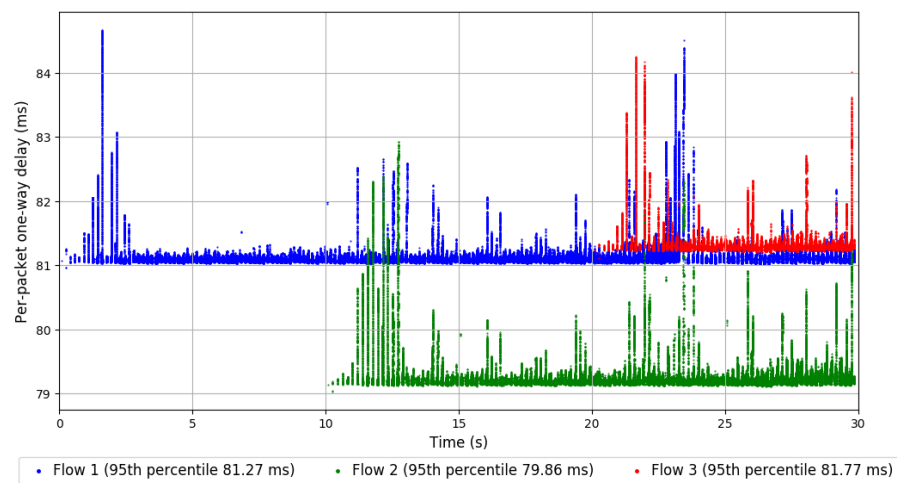
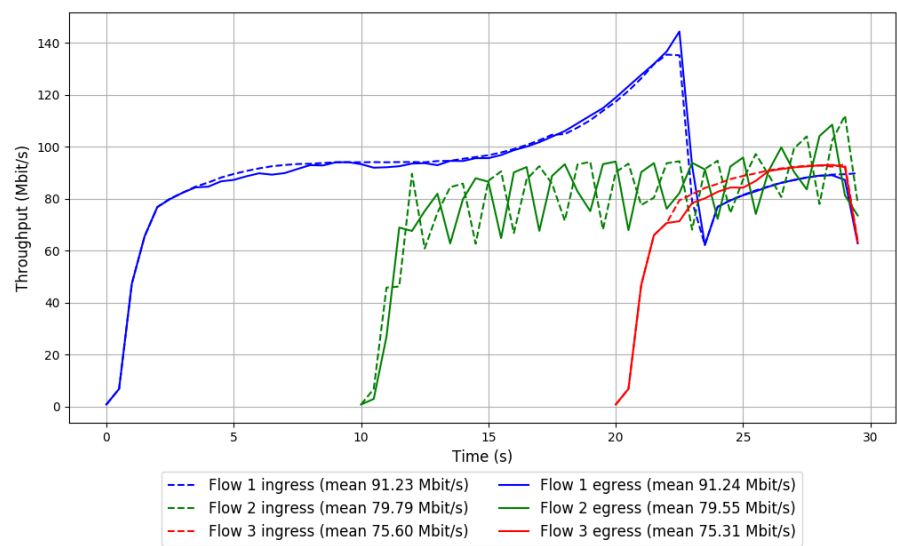
-- Flow 3:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 81.771 ms

Loss rate: 2.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 19:49:44

End at: 2017-12-05 19:50:14

Local clock offset: 1.464 ms

Remote clock offset: 3.626 ms

# Below is generated by plot.py at 2017-12-06 01:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 162.34 Mbit/s

95th percentile per-packet one-way delay: 82.125 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 82.295 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 81.38 Mbit/s

95th percentile per-packet one-way delay: 79.381 ms

Loss rate: 0.82%

-- Flow 3:

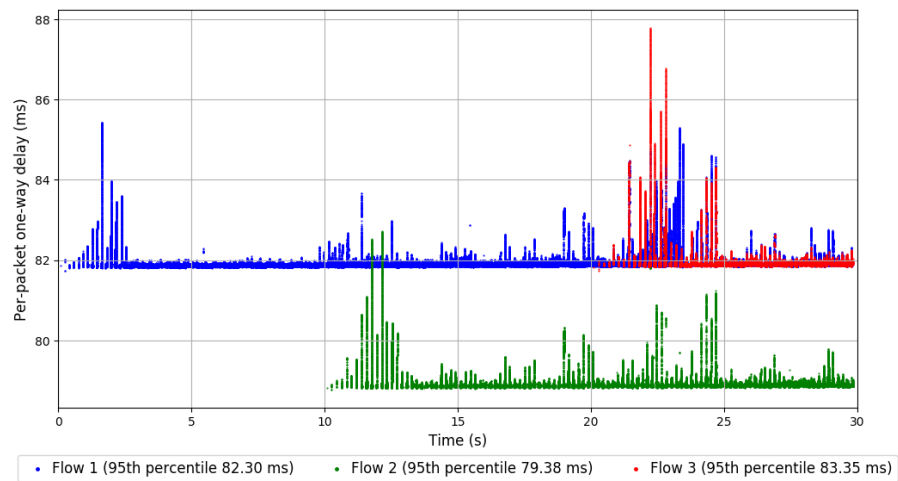
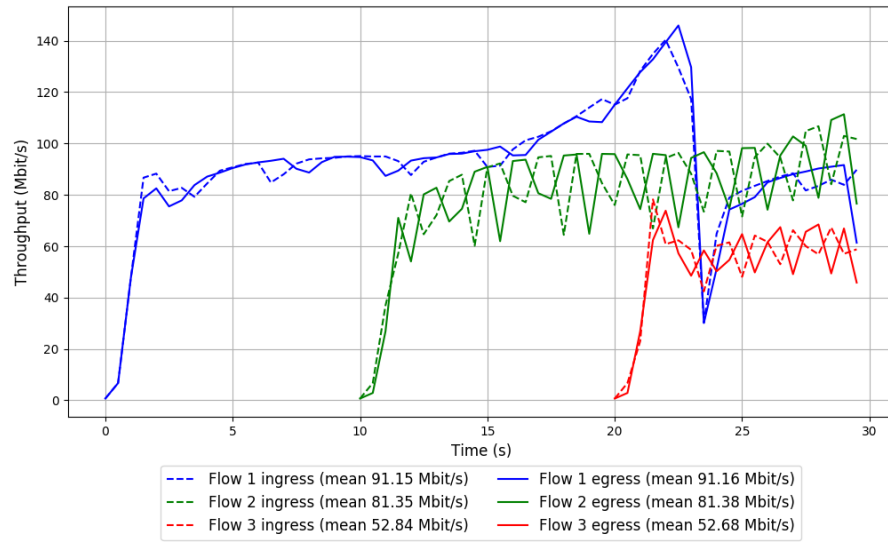
Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 83.350 ms

Loss rate: 2.21%



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



Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 20:09:54

End at: 2017-12-05 20:10:24

Local clock offset: 1.177 ms

Remote clock offset: 6.0 ms

# Below is generated by plot.py at 2017-12-06 01:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 162.04 Mbit/s

95th percentile per-packet one-way delay: 81.465 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 86.76 Mbit/s

95th percentile per-packet one-way delay: 81.477 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 80.756 ms

Loss rate: 1.10%

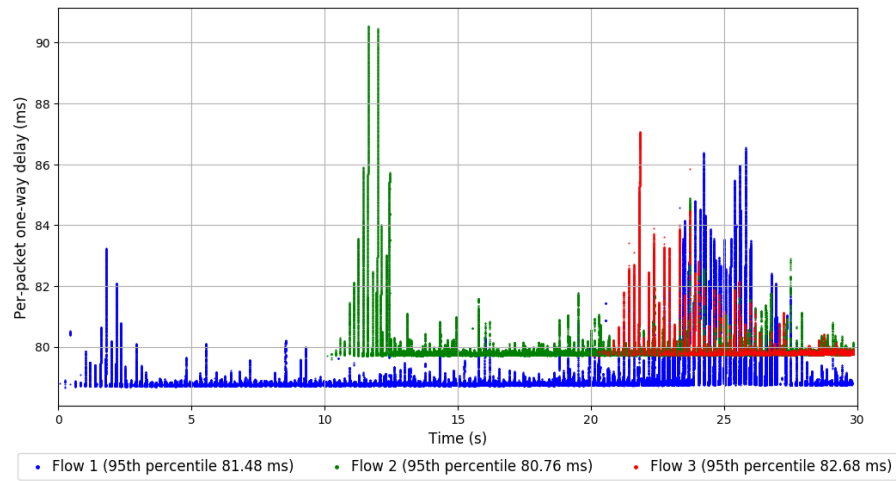
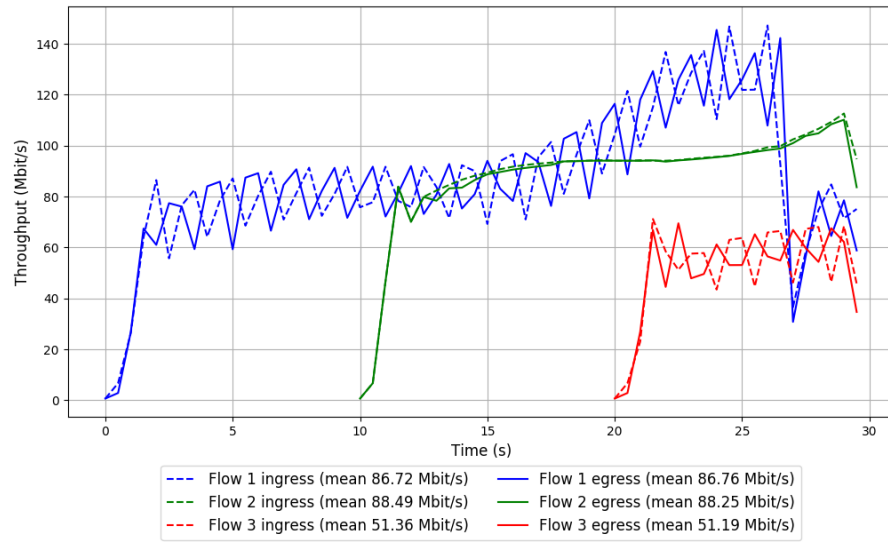
-- Flow 3:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 82.679 ms

Loss rate: 1.78%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 20:30:03

End at: 2017-12-05 20:30:33

Local clock offset: 0.809 ms

Remote clock offset: 6.206 ms

# Below is generated by plot.py at 2017-12-06 01:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 135.16 Mbit/s

95th percentile per-packet one-way delay: 80.659 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 81.727 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 78.293 ms

Loss rate: 1.28%

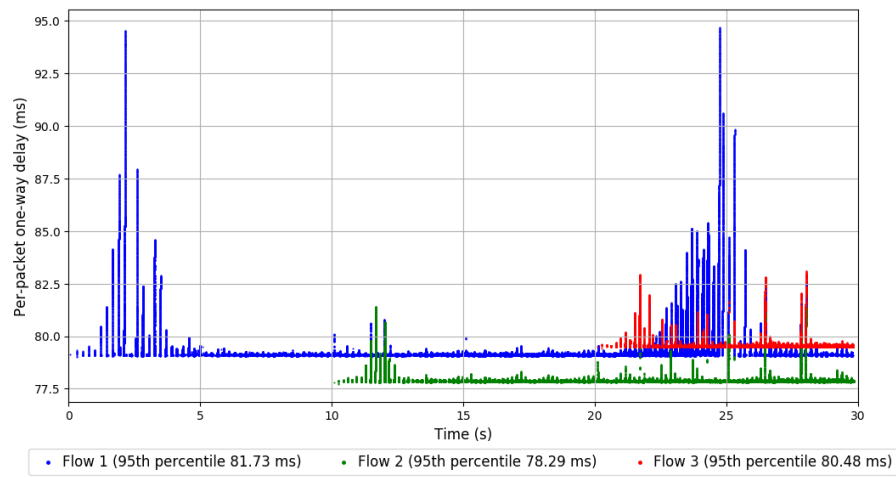
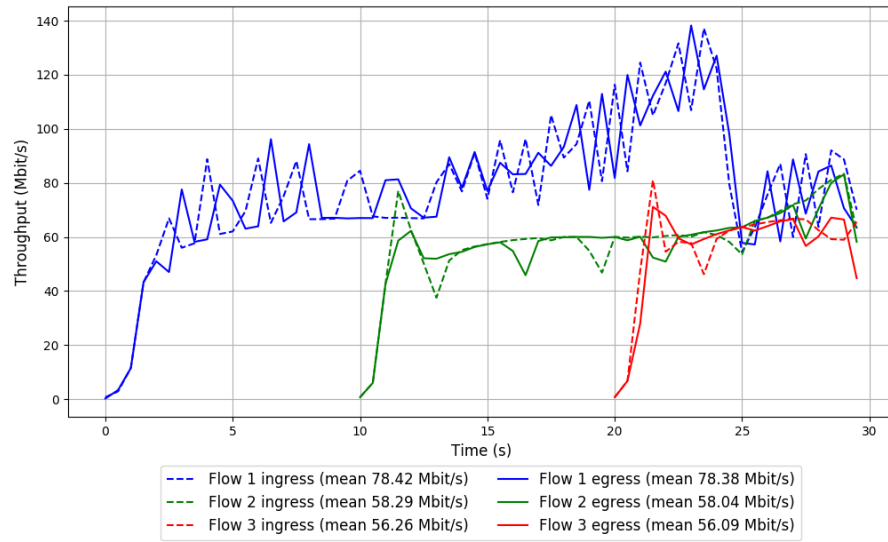
-- Flow 3:

Average throughput: 56.09 Mbit/s

95th percentile per-packet one-way delay: 80.484 ms

Loss rate: 2.01%

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

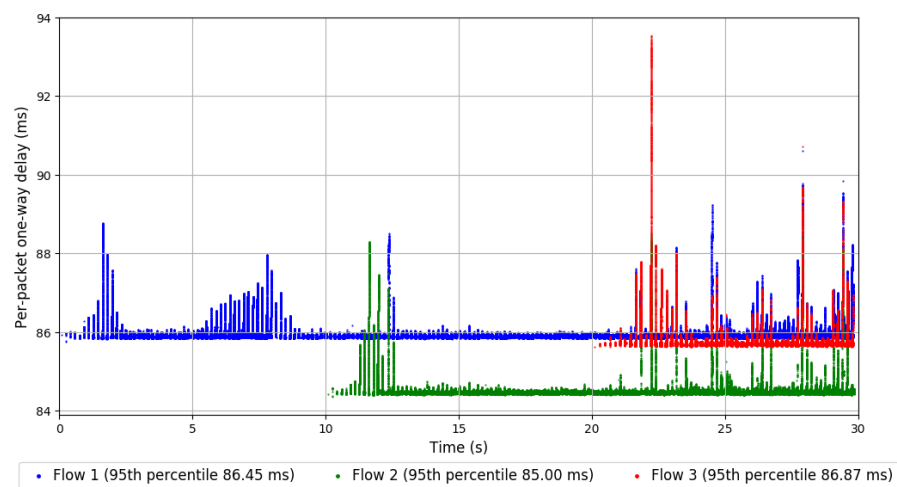
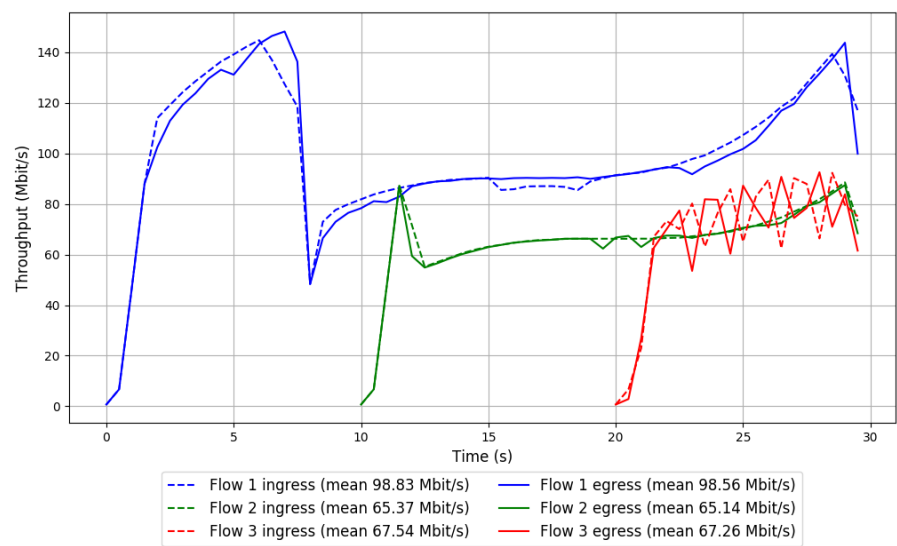


Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 20:50:10  
End at: 2017-12-05 20:50:40  
Local clock offset: 0.377 ms  
Remote clock offset: -0.957 ms

# Below is generated by plot.py at 2017-12-06 01:51:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 163.66 Mbit/s  
95th percentile per-packet one-way delay: 86.382 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 98.56 Mbit/s  
95th percentile per-packet one-way delay: 86.454 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 65.14 Mbit/s  
95th percentile per-packet one-way delay: 84.996 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 67.26 Mbit/s  
95th percentile per-packet one-way delay: 86.872 ms  
Loss rate: 2.32%

Run 6: Report of TCP Cubic — Data Link



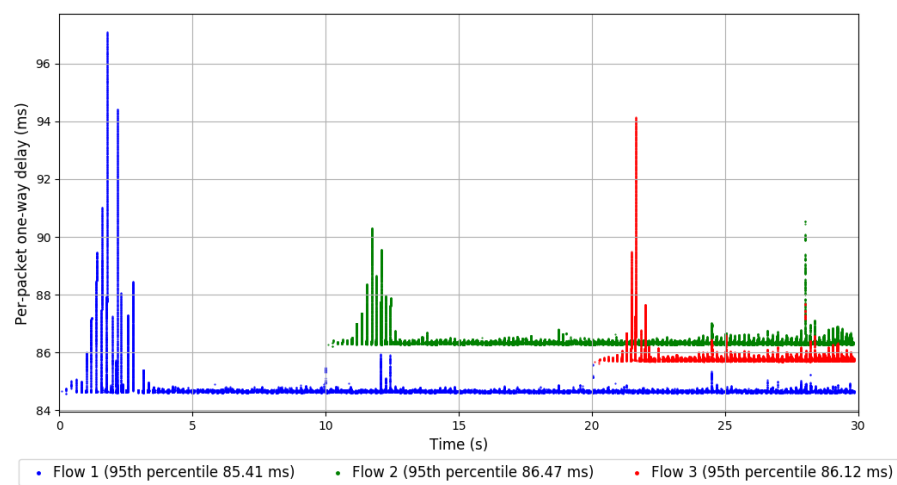
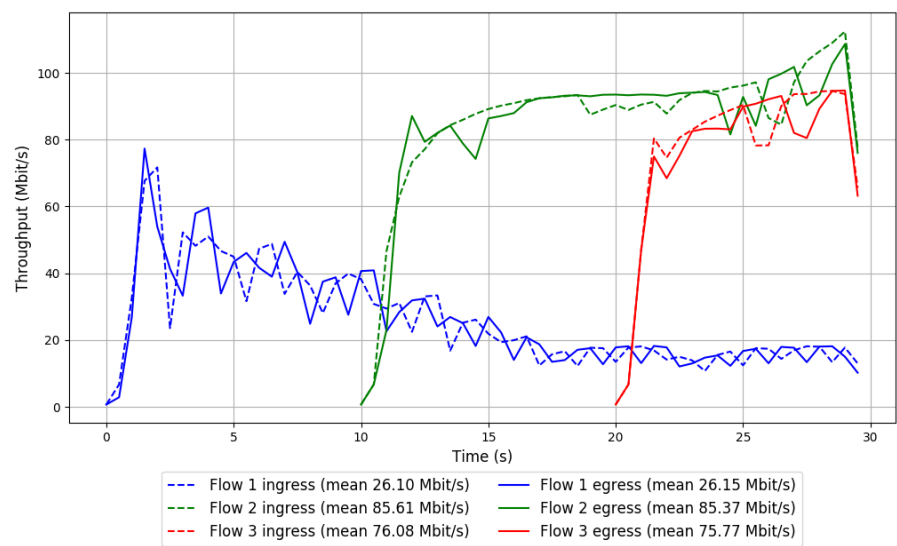
Run 7: Statistics of TCP Cubic

Start at: 2017-12-05 21:10:35  
End at: 2017-12-05 21:11:05  
Local clock offset: 0.148 ms  
Remote clock offset: -2.412 ms

# Below is generated by plot.py at 2017-12-06 01:51:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 107.52 Mbit/s  
95th percentile per-packet one-way delay: 86.434 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 26.15 Mbit/s  
95th percentile per-packet one-way delay: 85.410 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 85.37 Mbit/s  
95th percentile per-packet one-way delay: 86.469 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 75.77 Mbit/s  
95th percentile per-packet one-way delay: 86.123 ms  
Loss rate: 2.10%



Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-05 21:30:27

End at: 2017-12-05 21:30:57

Local clock offset: -0.042 ms

Remote clock offset: 2.178 ms

# Below is generated by plot.py at 2017-12-06 01:52:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 152.04 Mbit/s

95th percentile per-packet one-way delay: 82.012 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 80.583 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 82.322 ms

Loss rate: 1.20%

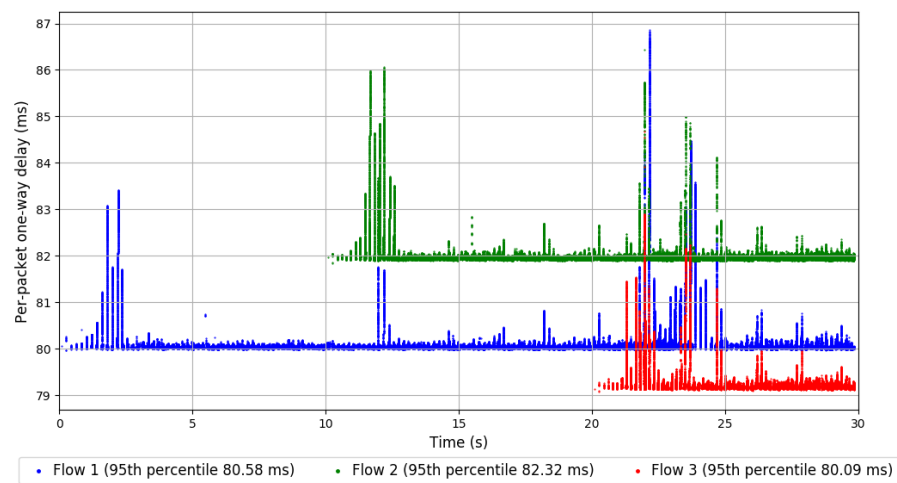
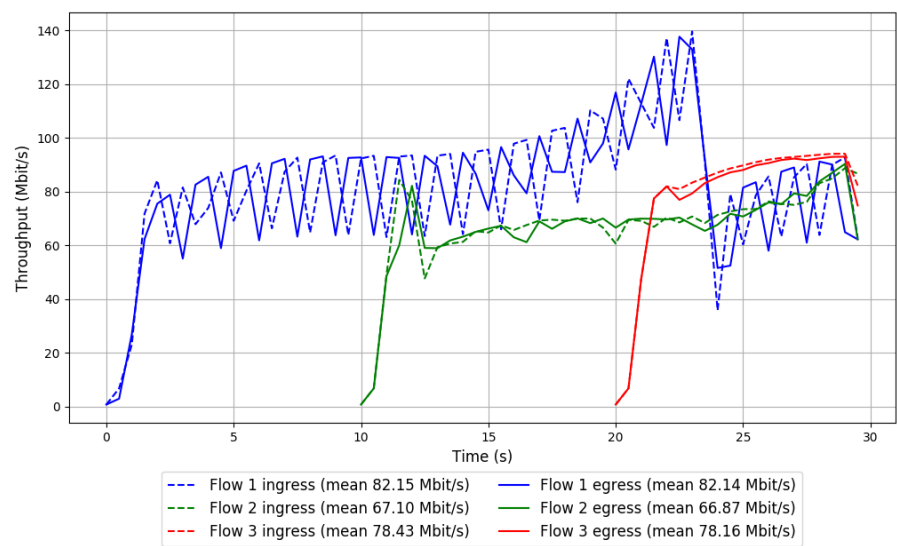
-- Flow 3:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 80.088 ms

Loss rate: 2.02%

Run 8: Report of TCP Cubic — Data Link

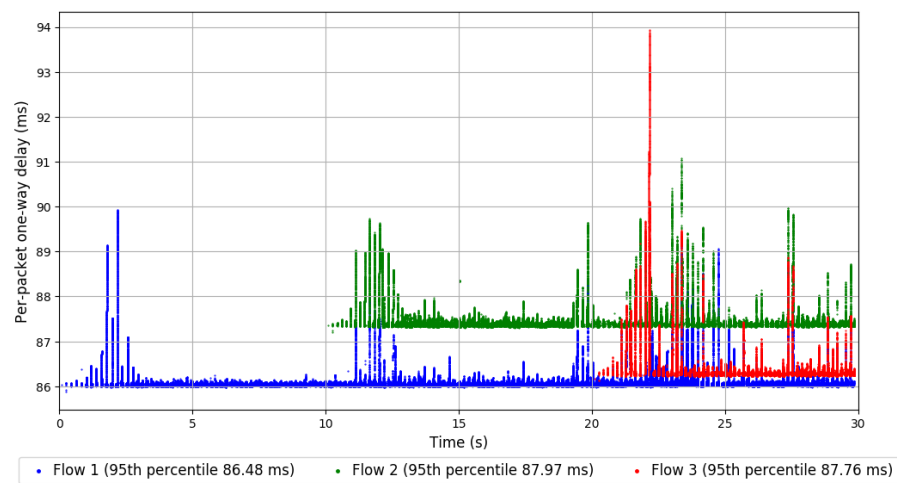
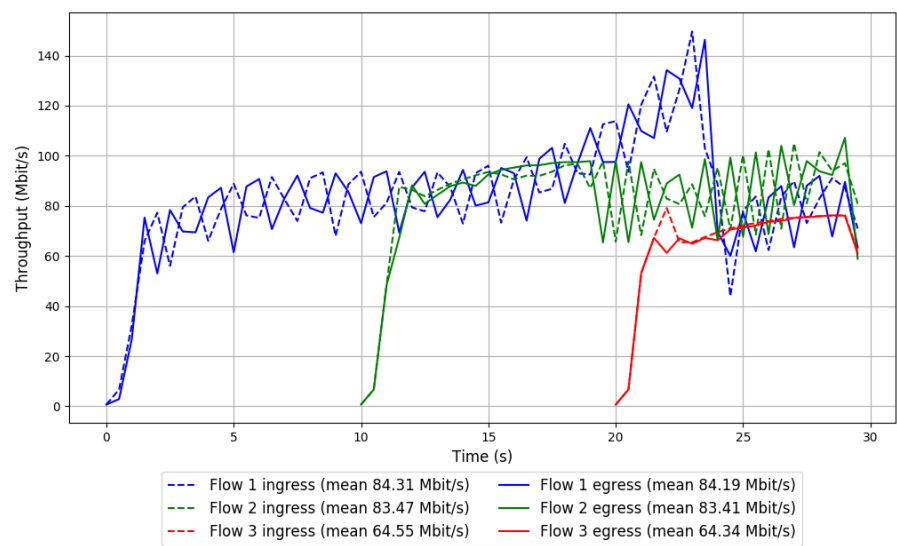


Run 9: Statistics of TCP Cubic

Start at: 2017-12-05 21:50:32  
End at: 2017-12-05 21:51:02  
Local clock offset: -0.602 ms  
Remote clock offset: -3.806 ms

# Below is generated by plot.py at 2017-12-06 01:52:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 160.61 Mbit/s  
95th percentile per-packet one-way delay: 87.544 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 84.19 Mbit/s  
95th percentile per-packet one-way delay: 86.481 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 83.41 Mbit/s  
95th percentile per-packet one-way delay: 87.970 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 64.34 Mbit/s  
95th percentile per-packet one-way delay: 87.757 ms  
Loss rate: 1.99%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-05 22:10:50

End at: 2017-12-05 22:11:20

Local clock offset: -1.345 ms

Remote clock offset: 2.12 ms

# Below is generated by plot.py at 2017-12-06 01:52:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 173.33 Mbit/s

95th percentile per-packet one-way delay: 79.741 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 78.285 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 79.772 ms

Loss rate: 1.10%

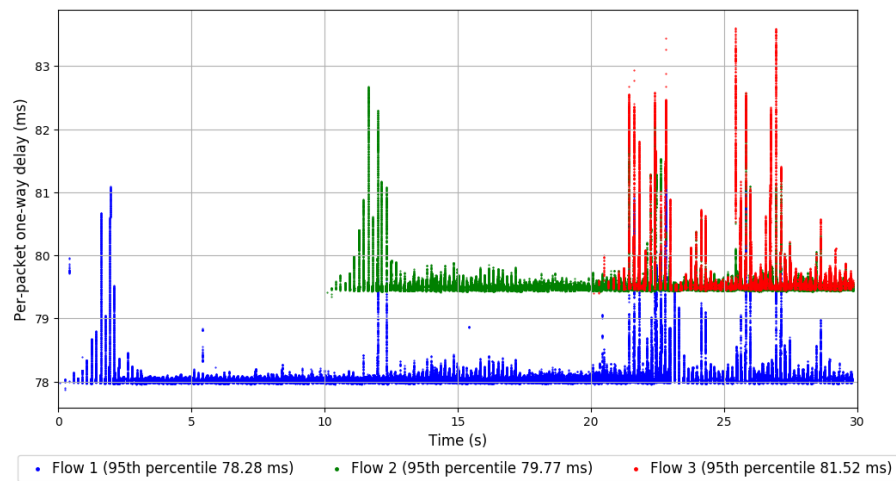
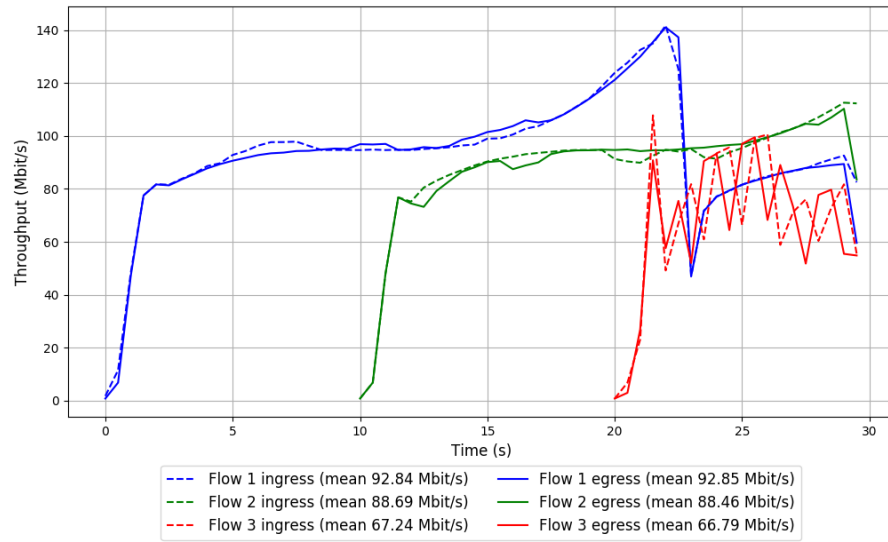
-- Flow 3:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 81.520 ms

Loss rate: 2.07%

# Run 10: Report of TCP Cubic — Data Link



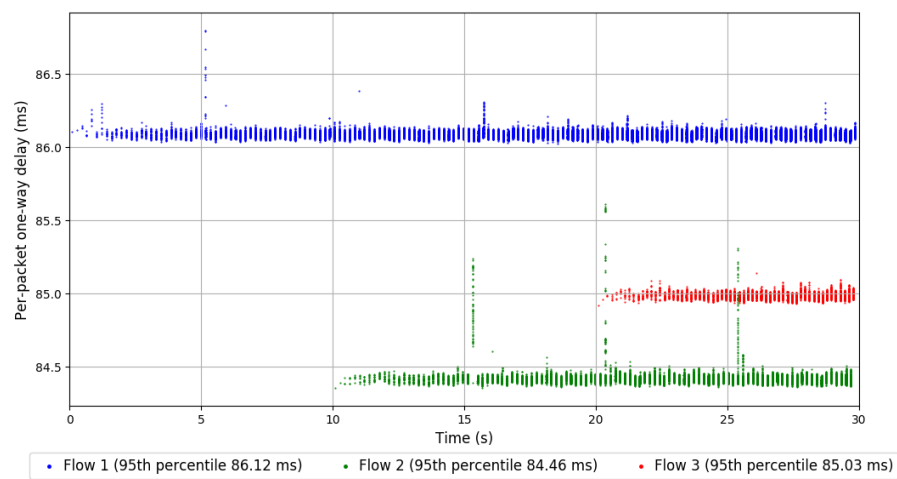
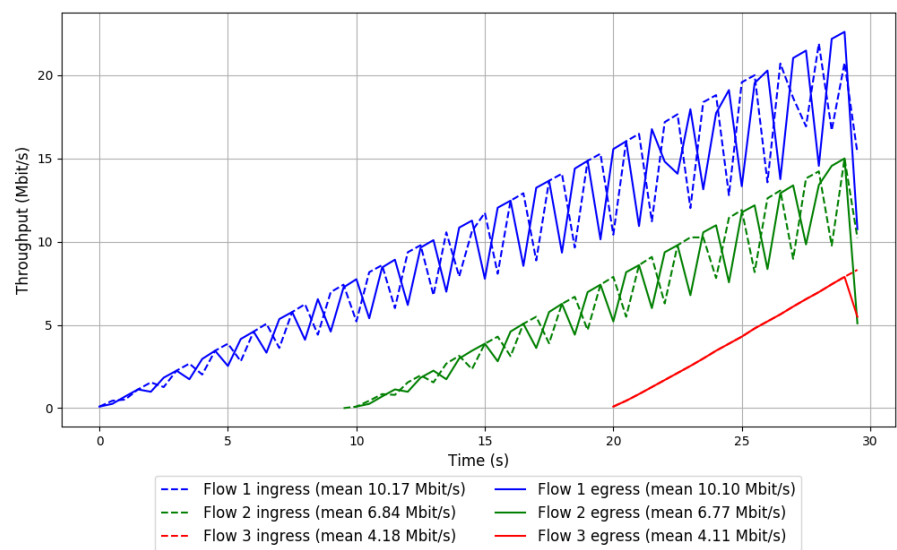
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 19:13:09  
End at: 2017-12-05 19:13:39  
Local clock offset: 1.436 ms  
Remote clock offset: -1.123 ms

# Below is generated by plot.py at 2017-12-06 01:52:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.90 Mbit/s  
95th percentile per-packet one-way delay: 86.117 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 10.10 Mbit/s  
95th percentile per-packet one-way delay: 86.121 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 6.77 Mbit/s  
95th percentile per-packet one-way delay: 84.456 ms  
Loss rate: 1.90%  
-- Flow 3:  
Average throughput: 4.11 Mbit/s  
95th percentile per-packet one-way delay: 85.025 ms  
Loss rate: 3.41%



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-05 19:33:20

End at: 2017-12-05 19:33:50

Local clock offset: 1.548 ms

Remote clock offset: 3.367 ms

# Below is generated by plot.py at 2017-12-06 01:52:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.81 Mbit/s

95th percentile per-packet one-way delay: 79.966 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 78.497 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 79.583 ms

Loss rate: 1.67%

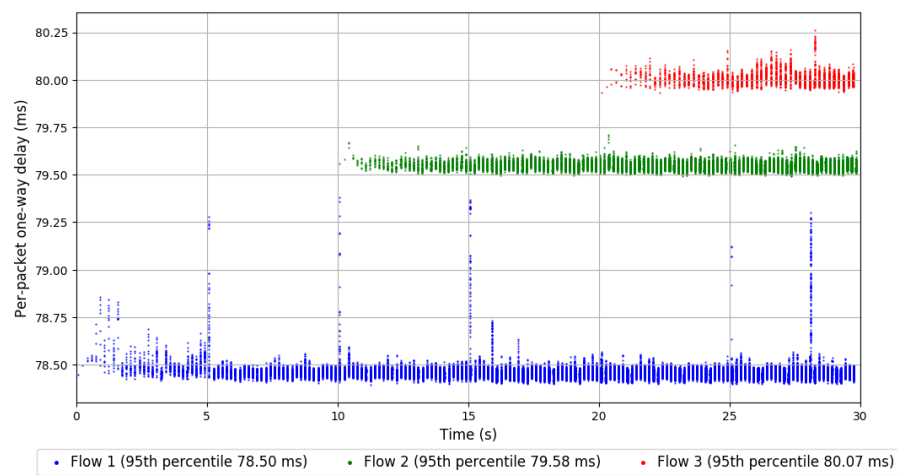
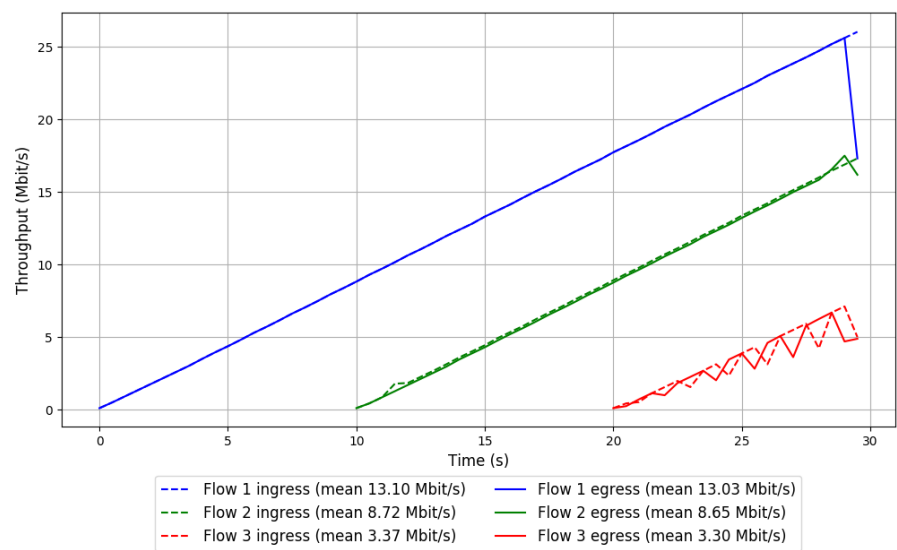
-- Flow 3:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 80.074 ms

Loss rate: 3.83%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

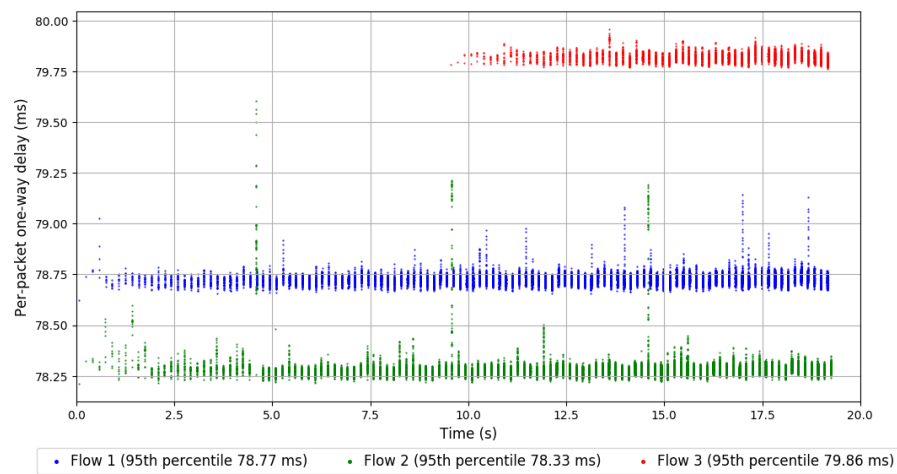
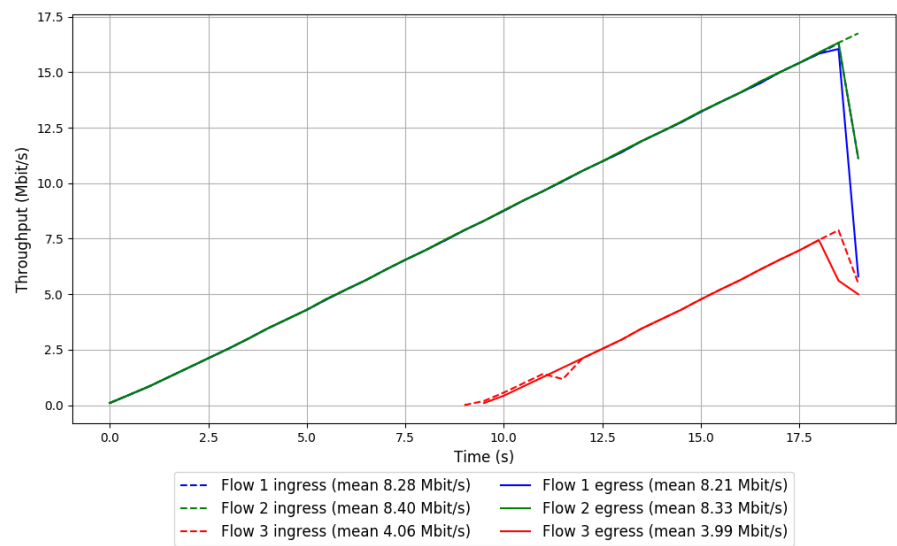
Start at: 2017-12-05 19:53:43

End at: 2017-12-05 19:54:13

Local clock offset: 1.349 ms

Remote clock offset: 4.22 ms

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-05 20:13:50

End at: 2017-12-05 20:14:20

Local clock offset: 1.132 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2017-12-06 01:52:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 87.060 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 83.870 ms

Loss rate: 1.89%

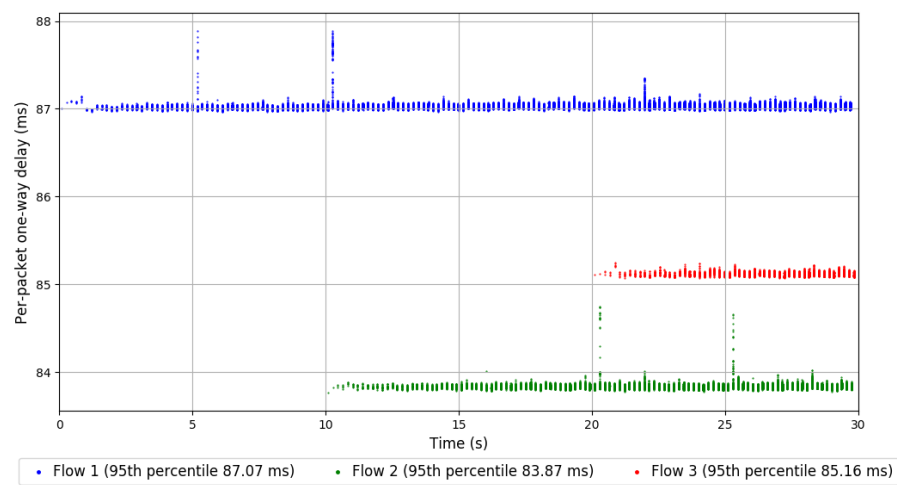
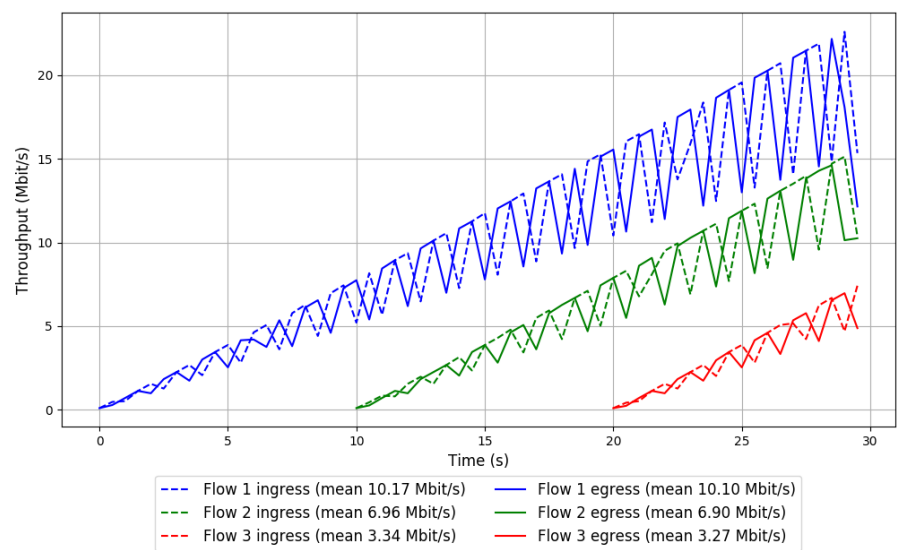
-- Flow 3:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 85.160 ms

Loss rate: 3.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-05 20:34:00

End at: 2017-12-05 20:34:30

Local clock offset: 0.708 ms

Remote clock offset: 5.179 ms

# Below is generated by plot.py at 2017-12-06 01:52:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 81.488 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 79.867 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 80.013 ms

Loss rate: 1.71%

-- Flow 3:

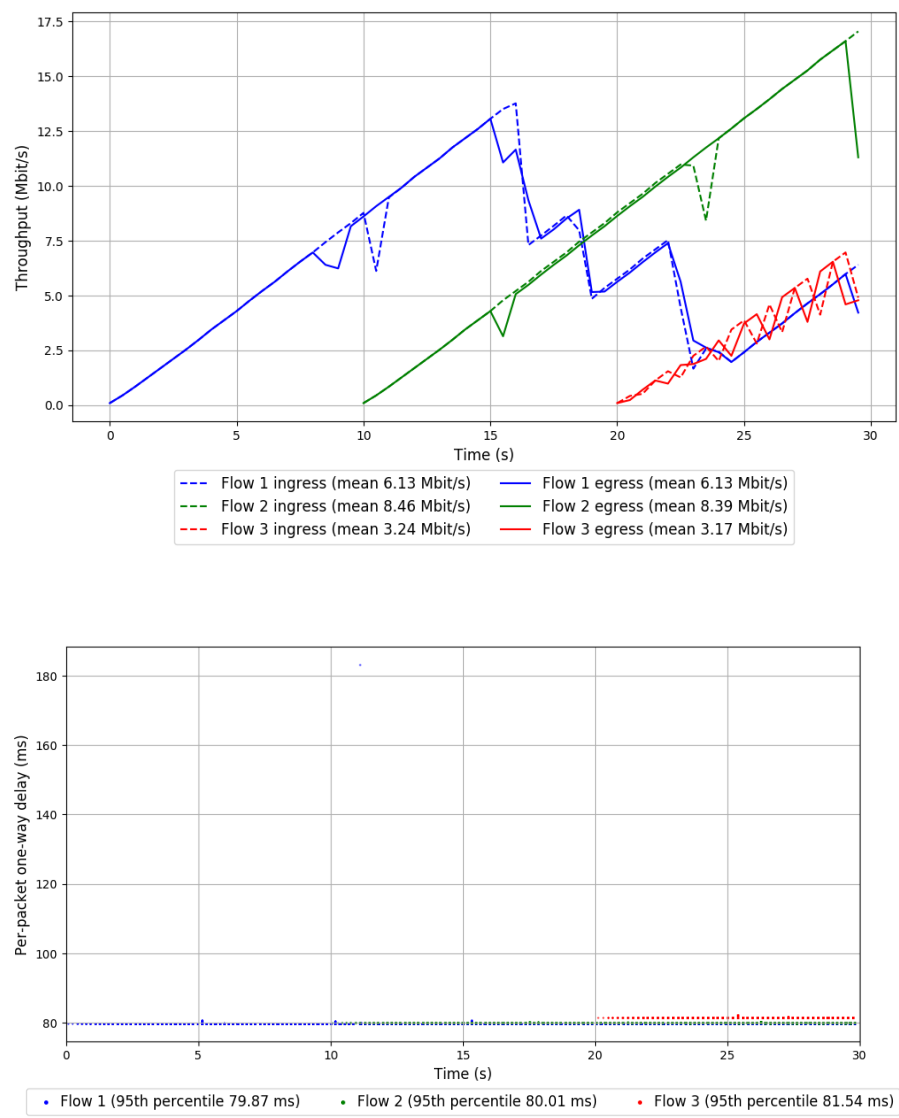
Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 81.540 ms

Loss rate: 3.91%



Run 5: Report of LEDBAT — Data Link

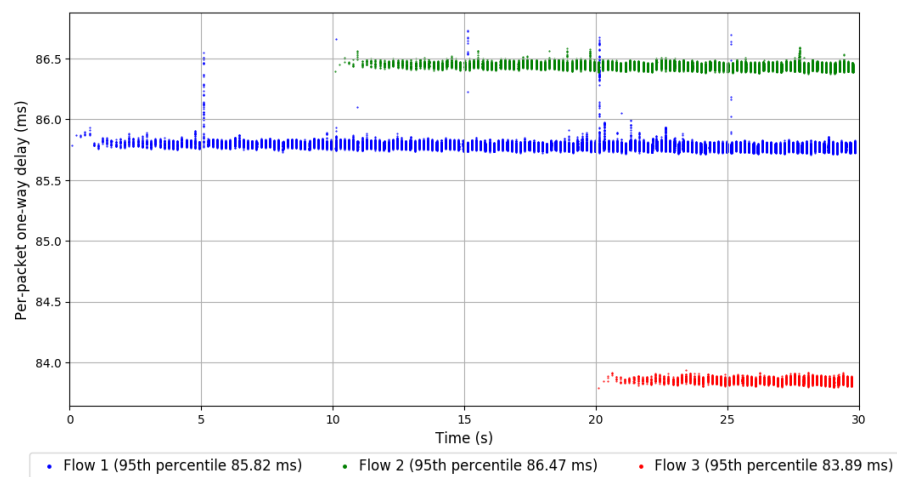
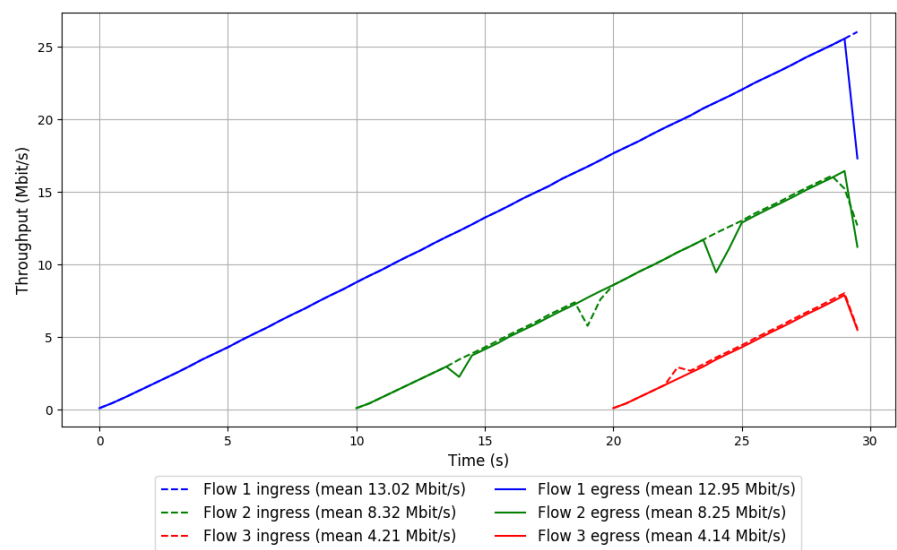


Run 6: Statistics of LEDBAT

Start at: 2017-12-05 20:54:13  
End at: 2017-12-05 20:54:43  
Local clock offset: 0.241 ms  
Remote clock offset: -0.838 ms

# Below is generated by plot.py at 2017-12-06 01:52:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.73 Mbit/s  
95th percentile per-packet one-way delay: 86.458 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 12.95 Mbit/s  
95th percentile per-packet one-way delay: 85.818 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 8.25 Mbit/s  
95th percentile per-packet one-way delay: 86.474 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 4.14 Mbit/s  
95th percentile per-packet one-way delay: 83.885 ms  
Loss rate: 3.42%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

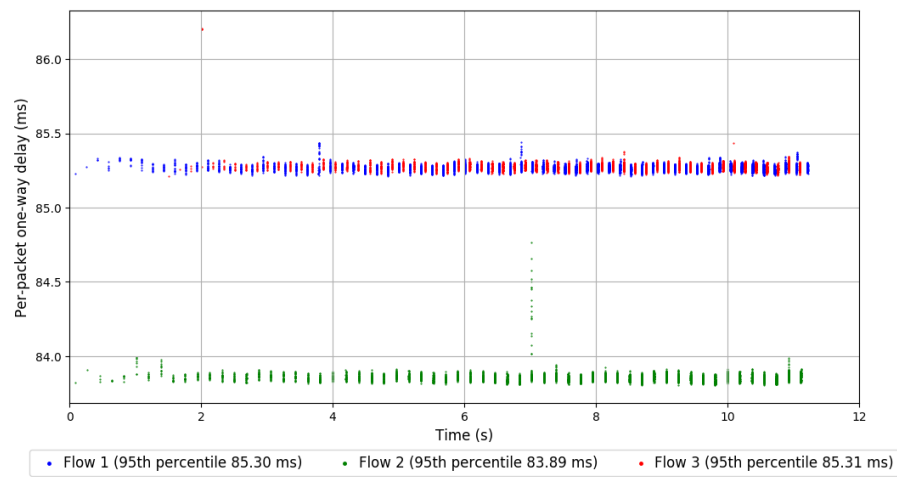
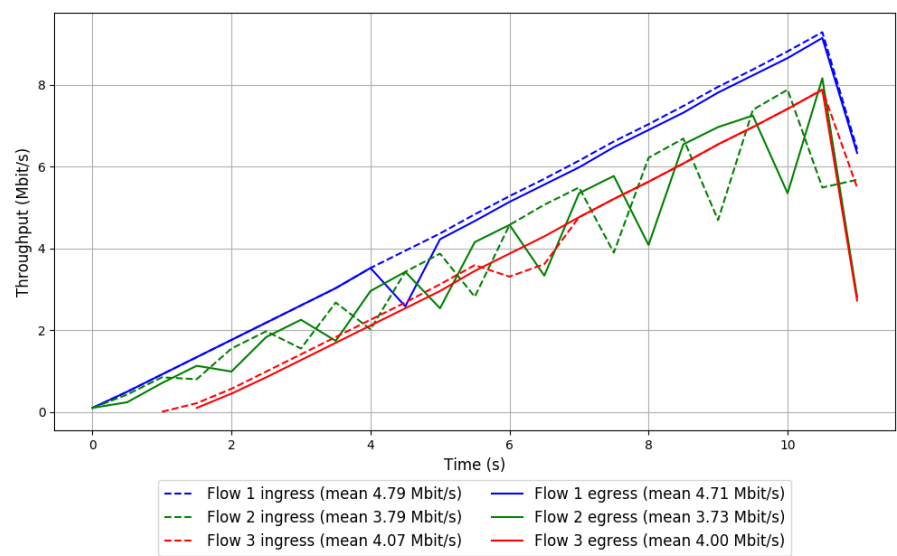
Start at: 2017-12-05 21:14:30

End at: 2017-12-05 21:15:00

Local clock offset: 0.115 ms

Remote clock offset: -1.847 ms

Run 7: Report of LEDBAT — Data Link

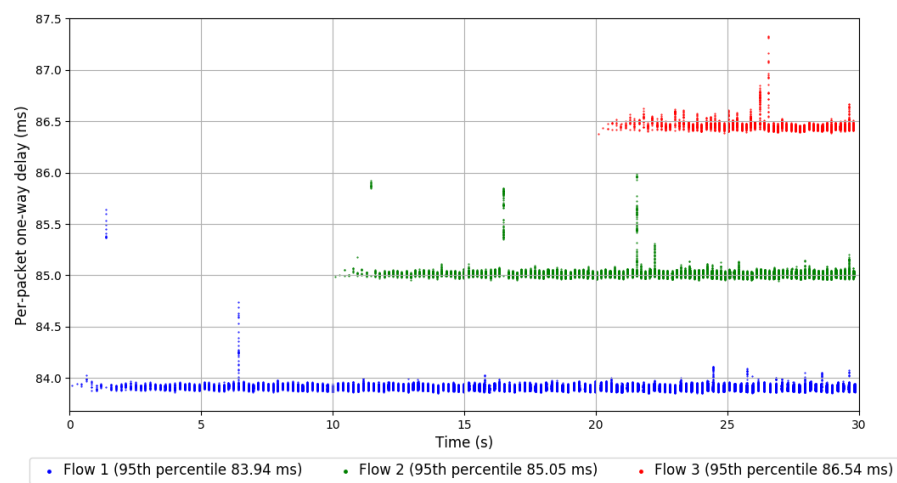
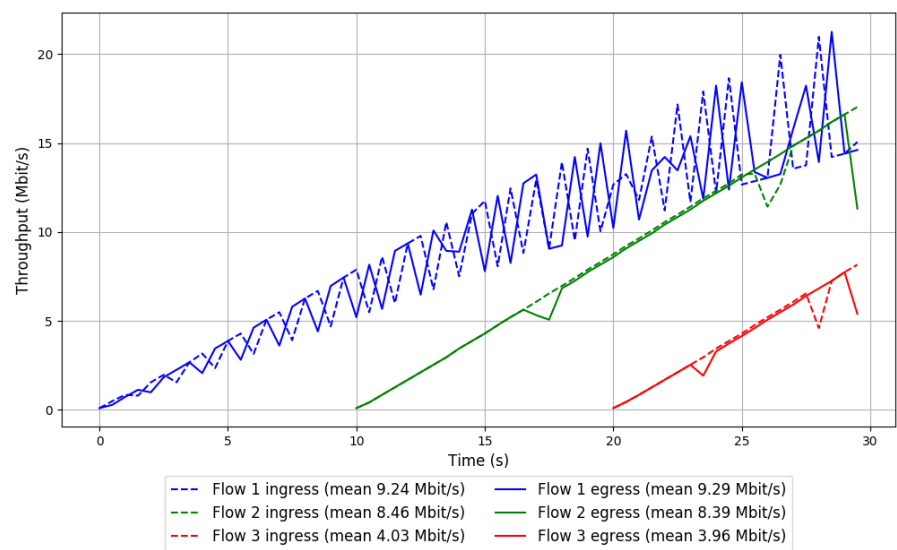


Run 8: Statistics of LEDBAT

Start at: 2017-12-05 21:34:21  
End at: 2017-12-05 21:34:51  
Local clock offset: -0.166 ms  
Remote clock offset: -2.788 ms

# Below is generated by plot.py at 2017-12-06 01:52:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.13 Mbit/s  
95th percentile per-packet one-way delay: 86.442 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 9.29 Mbit/s  
95th percentile per-packet one-way delay: 83.941 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 8.39 Mbit/s  
95th percentile per-packet one-way delay: 85.050 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 3.96 Mbit/s  
95th percentile per-packet one-way delay: 86.540 ms  
Loss rate: 3.48%

Run 8: Report of LEDBAT — Data Link



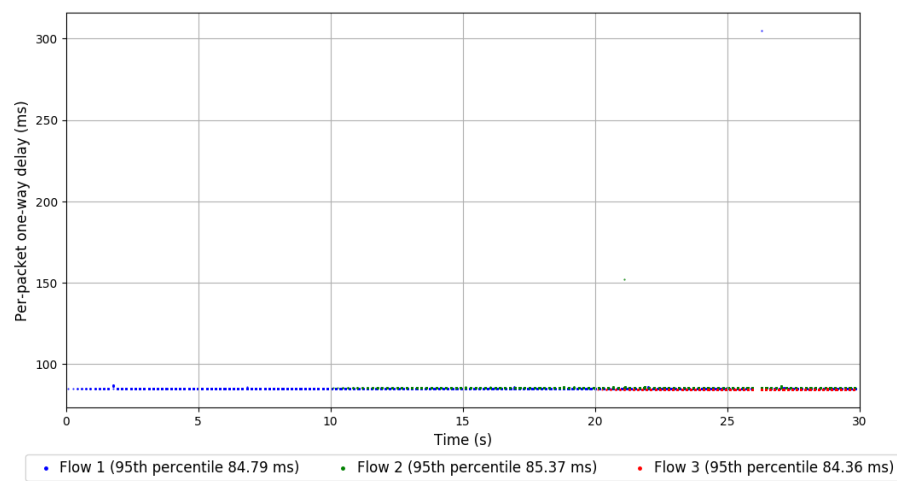
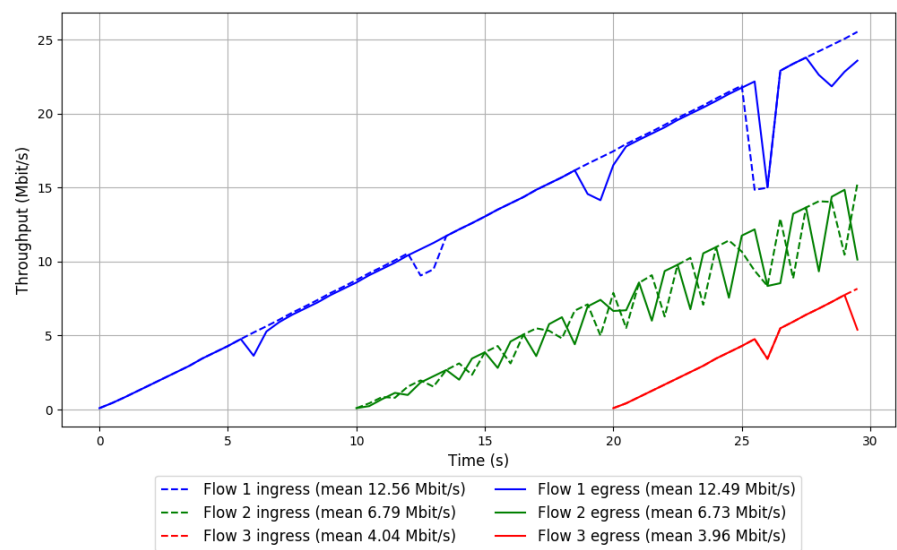
Run 9: Statistics of LEDBAT

Start at: 2017-12-05 21:54:30  
End at: 2017-12-05 21:55:00  
Local clock offset: -0.821 ms  
Remote clock offset: -3.029 ms

# Below is generated by plot.py at 2017-12-06 01:52:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.23 Mbit/s  
95th percentile per-packet one-way delay: 85.354 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 84.790 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 6.73 Mbit/s  
95th percentile per-packet one-way delay: 85.372 ms  
Loss rate: 1.90%  
-- Flow 3:  
Average throughput: 3.96 Mbit/s  
95th percentile per-packet one-way delay: 84.361 ms  
Loss rate: 3.48%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-05 22:14:47

End at: 2017-12-05 22:15:17

Local clock offset: -1.478 ms

Remote clock offset: 0.556 ms

# Below is generated by plot.py at 2017-12-06 01:52:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 80.796 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 79.751 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 80.618 ms

Loss rate: 1.70%

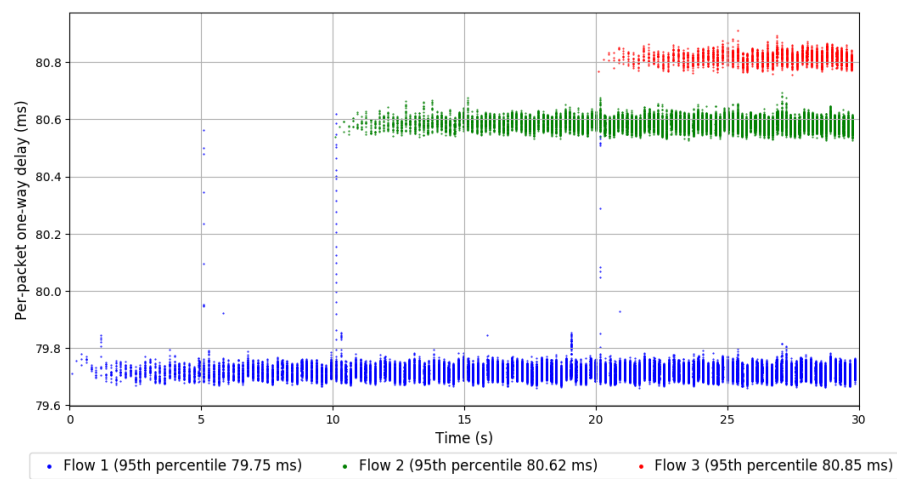
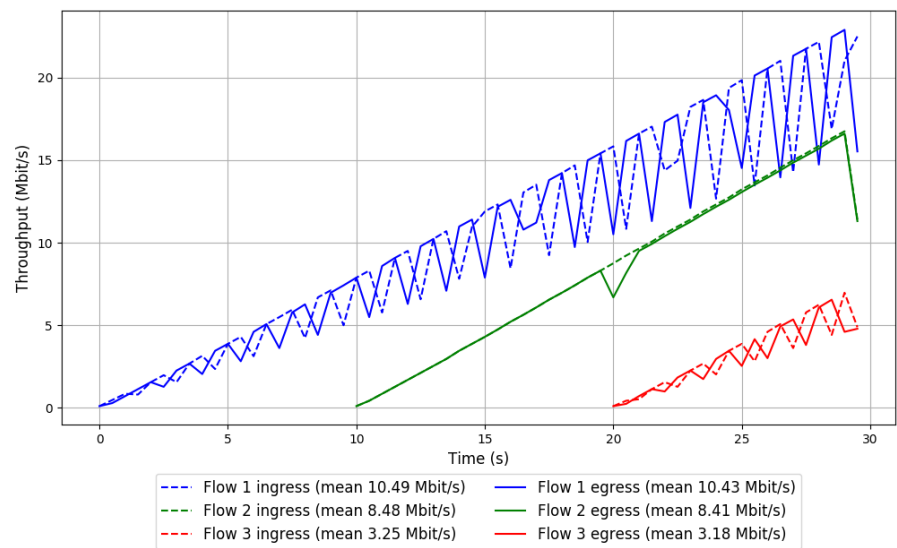
-- Flow 3:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 80.849 ms

Loss rate: 3.87%

Run 10: Report of LEDBAT — Data Link

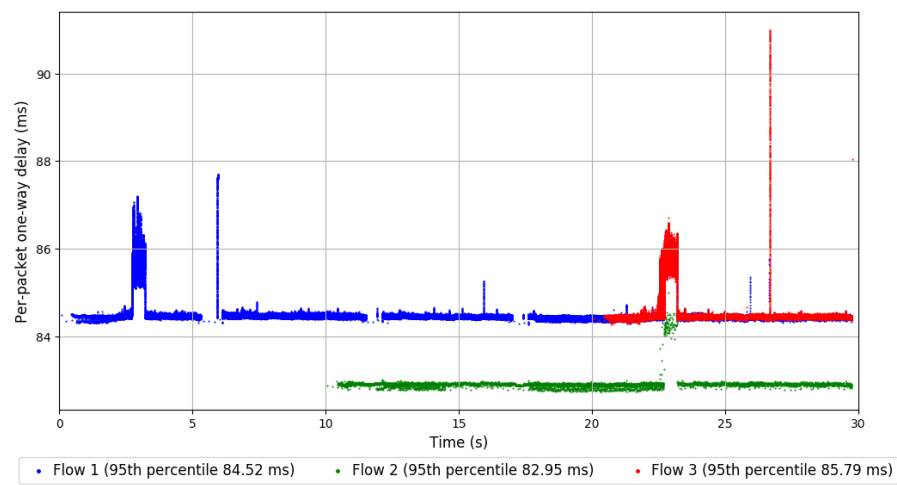
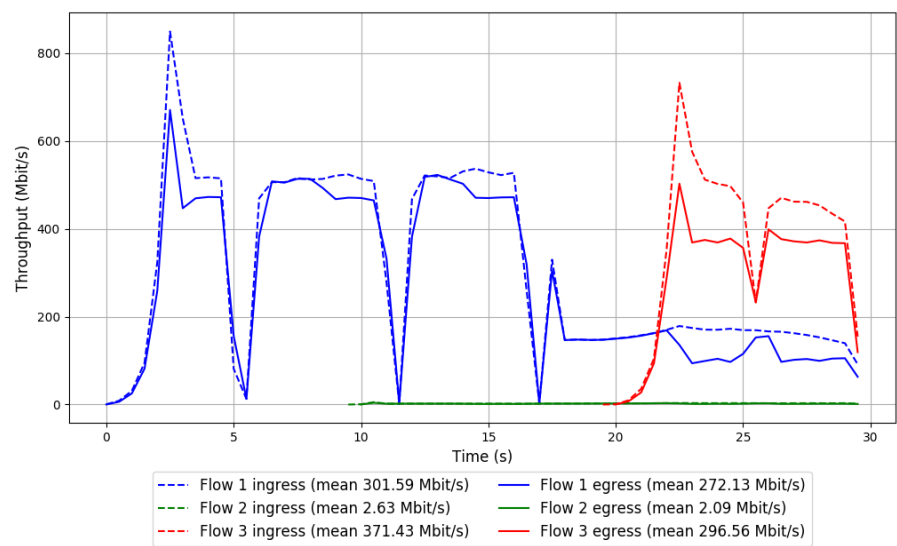


Run 1: Statistics of PCC

Start at: 2017-12-05 19:02:31  
End at: 2017-12-05 19:03:01  
Local clock offset: 1.343 ms  
Remote clock offset: -1.151 ms

# Below is generated by plot.py at 2017-12-06 01:56:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 370.22 Mbit/s  
95th percentile per-packet one-way delay: 85.468 ms  
Loss rate: 13.55%  
-- Flow 1:  
Average throughput: 272.13 Mbit/s  
95th percentile per-packet one-way delay: 84.522 ms  
Loss rate: 10.28%  
-- Flow 2:  
Average throughput: 2.09 Mbit/s  
95th percentile per-packet one-way delay: 82.953 ms  
Loss rate: 21.30%  
-- Flow 3:  
Average throughput: 296.56 Mbit/s  
95th percentile per-packet one-way delay: 85.793 ms  
Loss rate: 21.49%

Run 1: Report of PCC — Data Link

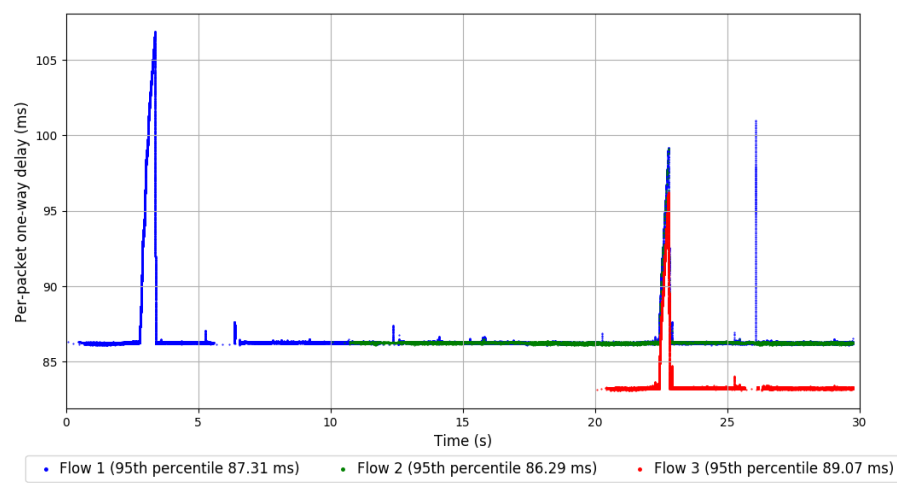
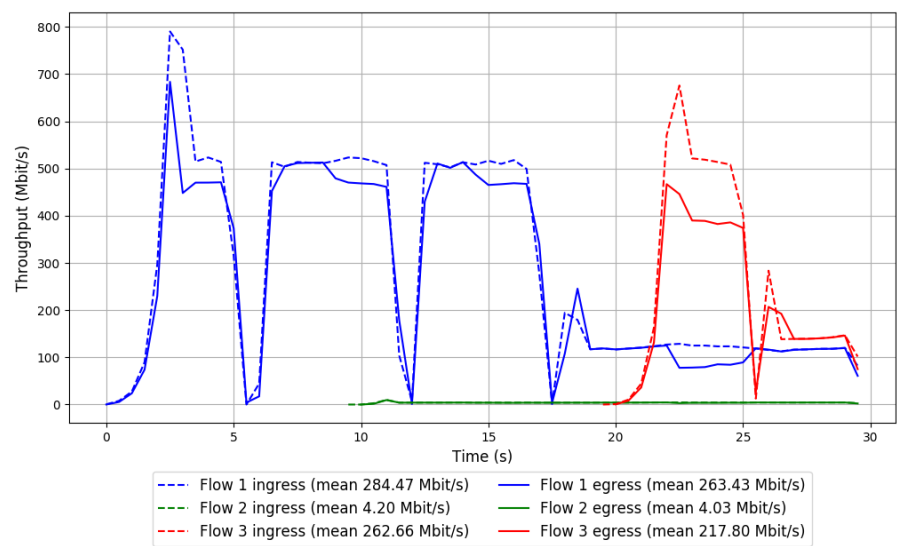


Run 2: Statistics of PCC

Start at: 2017-12-05 19:22:41  
End at: 2017-12-05 19:23:12  
Local clock offset: 1.533 ms  
Remote clock offset: -1.218 ms

# Below is generated by plot.py at 2017-12-06 01:56:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 337.19 Mbit/s  
95th percentile per-packet one-way delay: 88.180 ms  
Loss rate: 10.35%  
-- Flow 1:  
Average throughput: 263.43 Mbit/s  
95th percentile per-packet one-way delay: 87.312 ms  
Loss rate: 7.92%  
-- Flow 2:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 86.287 ms  
Loss rate: 4.96%  
-- Flow 3:  
Average throughput: 217.80 Mbit/s  
95th percentile per-packet one-way delay: 89.072 ms  
Loss rate: 18.48%

Run 2: Report of PCC — Data Link



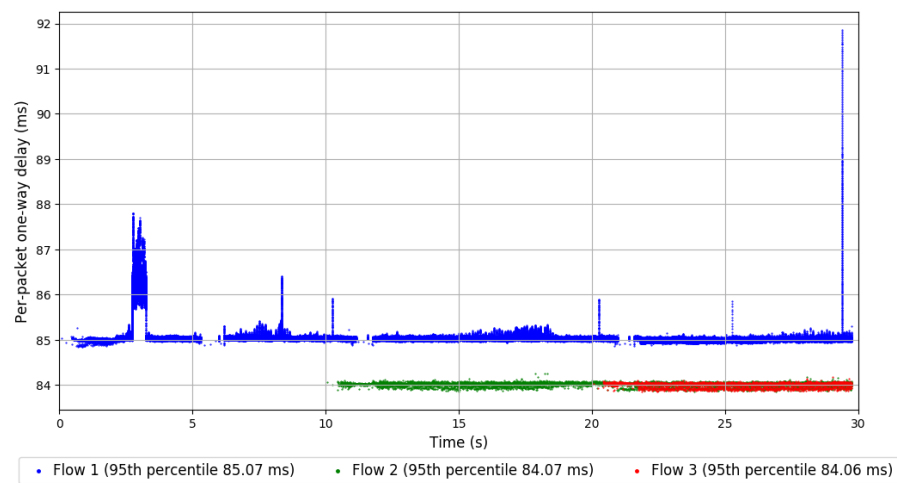
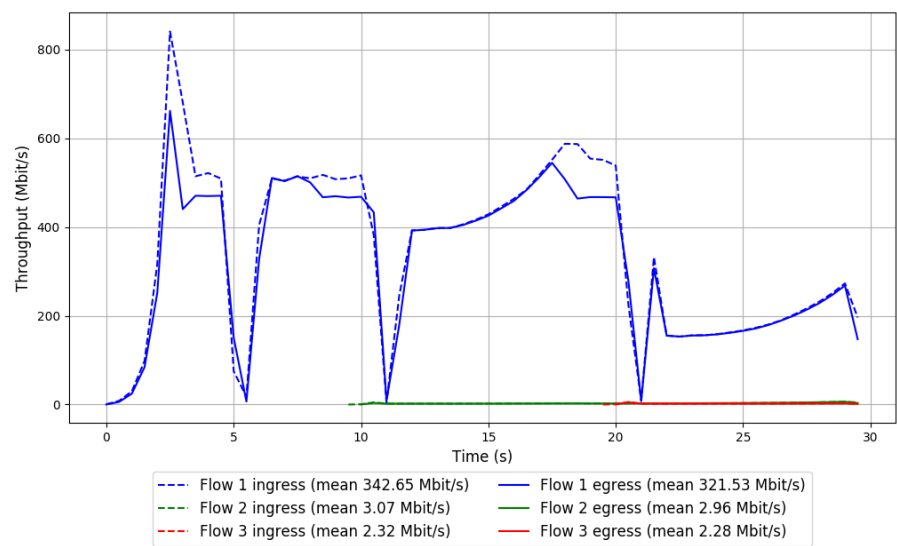
Run 3: Statistics of PCC

Start at: 2017-12-05 19:43:00  
End at: 2017-12-05 19:43:30  
Local clock offset: 1.551 ms  
Remote clock offset: -1.056 ms

# Below is generated by plot.py at 2017-12-06 01:56:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.24 Mbit/s  
95th percentile per-packet one-way delay: 85.072 ms  
Loss rate: 6.67%  
-- Flow 1:  
Average throughput: 321.53 Mbit/s  
95th percentile per-packet one-way delay: 85.072 ms  
Loss rate: 6.69%  
-- Flow 2:  
Average throughput: 2.96 Mbit/s  
95th percentile per-packet one-way delay: 84.073 ms  
Loss rate: 4.43%  
-- Flow 3:  
Average throughput: 2.28 Mbit/s  
95th percentile per-packet one-way delay: 84.063 ms  
Loss rate: 3.51%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-05 20:03:20

End at: 2017-12-05 20:03:50

Local clock offset: 1.215 ms

Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2017-12-06 01:57:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 411.58 Mbit/s

95th percentile per-packet one-way delay: 84.817 ms

Loss rate: 5.56%

-- Flow 1:

Average throughput: 389.98 Mbit/s

95th percentile per-packet one-way delay: 84.494 ms

Loss rate: 5.60%

-- Flow 2:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 85.744 ms

Loss rate: 6.77%

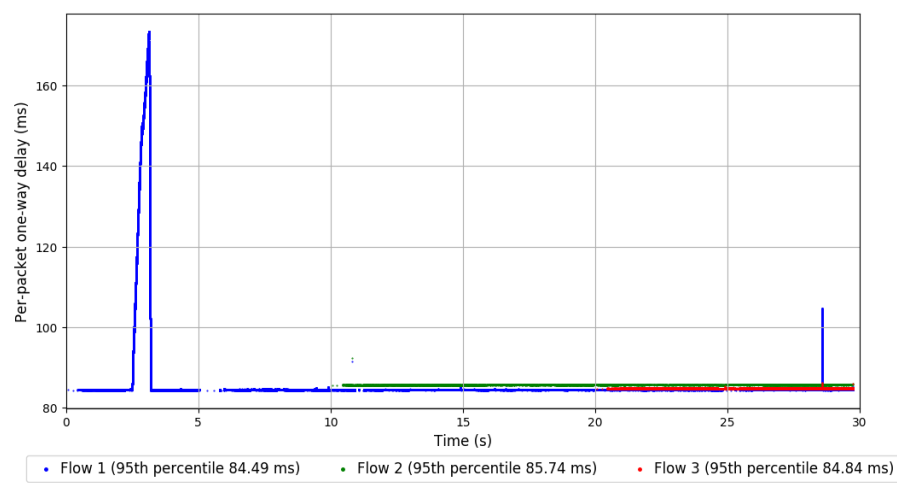
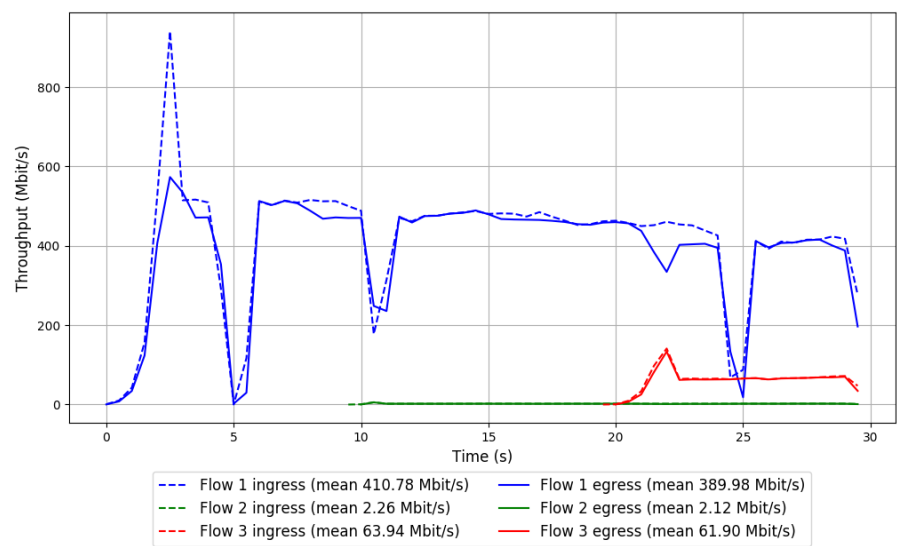
-- Flow 3:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 84.837 ms

Loss rate: 4.84%

Run 4: Report of PCC — Data Link

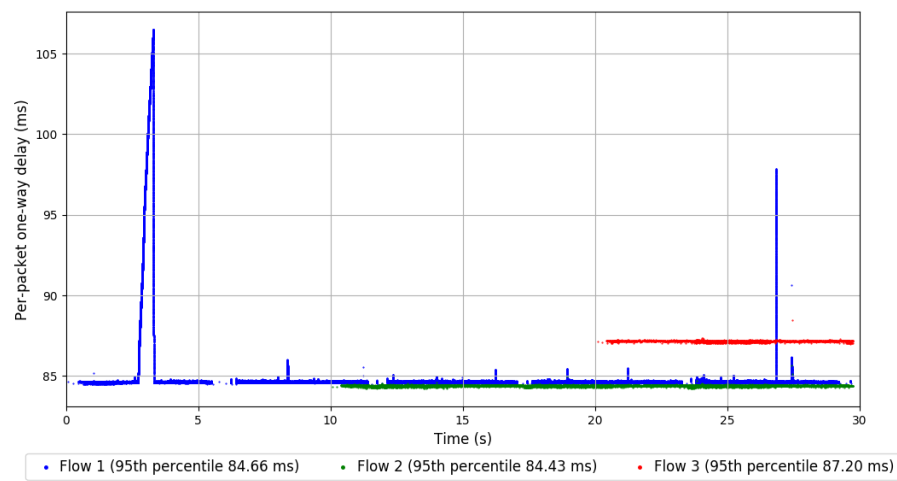
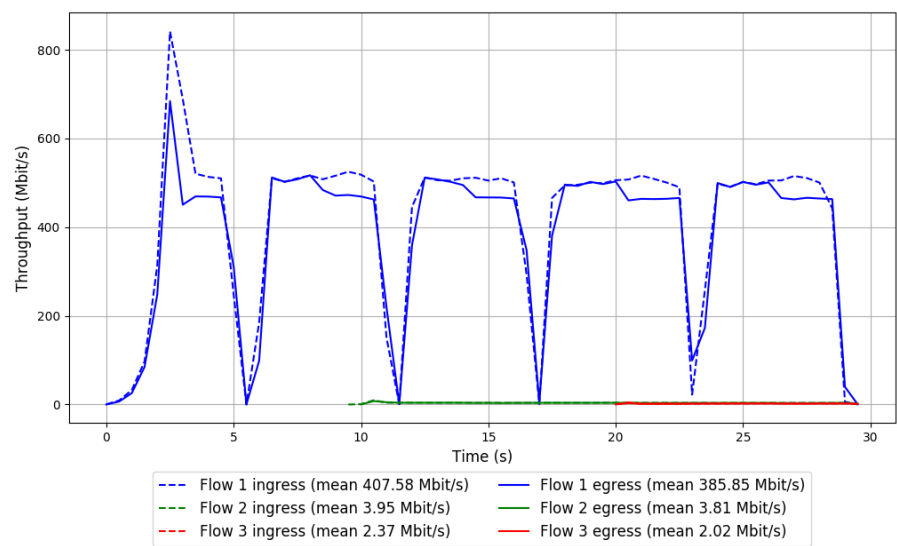


Run 5: Statistics of PCC

Start at: 2017-12-05 20:23:27  
End at: 2017-12-05 20:23:57  
Local clock offset: 0.967 ms  
Remote clock offset: -0.392 ms

# Below is generated by plot.py at 2017-12-06 01:57:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.12 Mbit/s  
95th percentile per-packet one-way delay: 84.658 ms  
Loss rate: 5.85%  
-- Flow 1:  
Average throughput: 385.85 Mbit/s  
95th percentile per-packet one-way delay: 84.656 ms  
Loss rate: 5.84%  
-- Flow 2:  
Average throughput: 3.81 Mbit/s  
95th percentile per-packet one-way delay: 84.426 ms  
Loss rate: 4.42%  
-- Flow 3:  
Average throughput: 2.02 Mbit/s  
95th percentile per-packet one-way delay: 87.200 ms  
Loss rate: 16.19%

Run 5: Report of PCC — Data Link

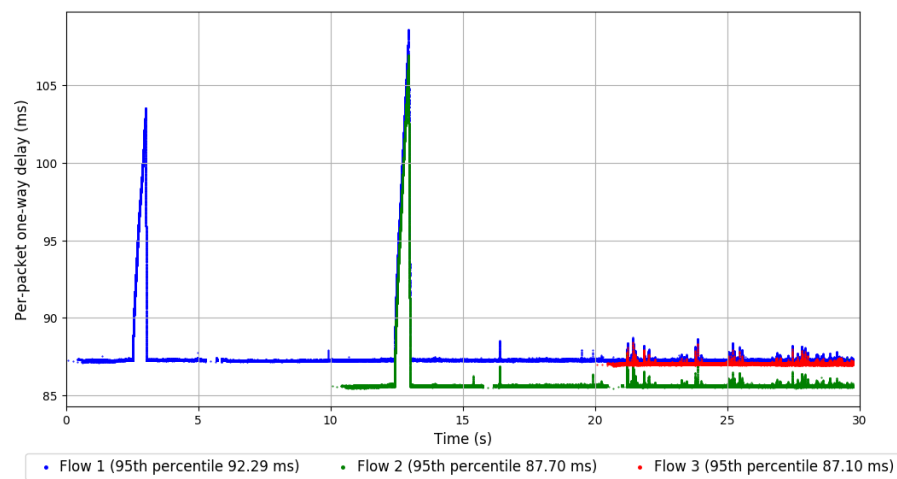
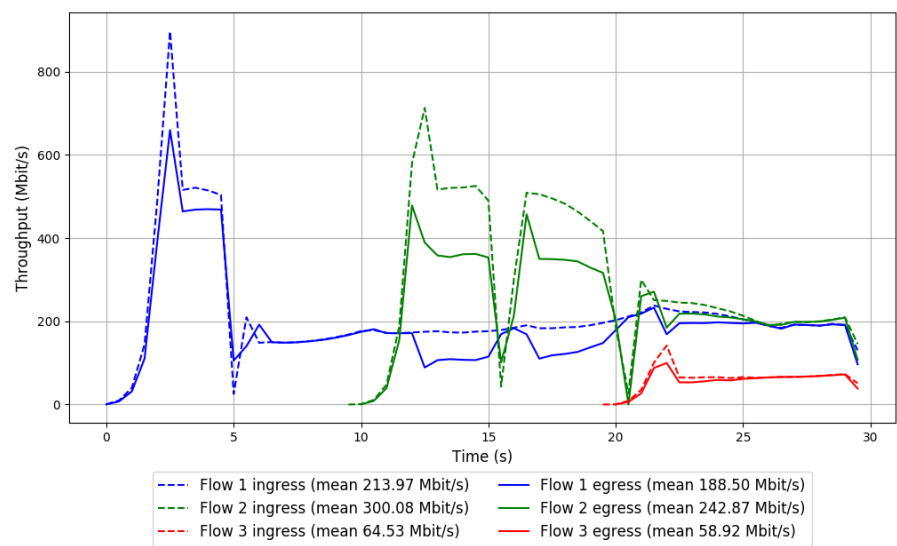


Run 6: Statistics of PCC

Start at: 2017-12-05 20:43:38  
End at: 2017-12-05 20:44:08  
Local clock offset: 0.451 ms  
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2017-12-06 01:57:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.92 Mbit/s  
95th percentile per-packet one-way delay: 90.313 ms  
Loss rate: 15.67%  
-- Flow 1:  
Average throughput: 188.50 Mbit/s  
95th percentile per-packet one-way delay: 92.289 ms  
Loss rate: 12.40%  
-- Flow 2:  
Average throughput: 242.87 Mbit/s  
95th percentile per-packet one-way delay: 87.703 ms  
Loss rate: 19.75%  
-- Flow 3:  
Average throughput: 58.92 Mbit/s  
95th percentile per-packet one-way delay: 87.104 ms  
Loss rate: 10.27%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-05 21:03:54

End at: 2017-12-05 21:04:24

Local clock offset: 0.194 ms

Remote clock offset: 3.498 ms

# Below is generated by plot.py at 2017-12-06 01:57:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 358.67 Mbit/s

95th percentile per-packet one-way delay: 87.363 ms

Loss rate: 15.92%

-- Flow 1:

Average throughput: 176.68 Mbit/s

95th percentile per-packet one-way delay: 88.693 ms

Loss rate: 12.11%

-- Flow 2:

Average throughput: 224.20 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 17.41%

-- Flow 3:

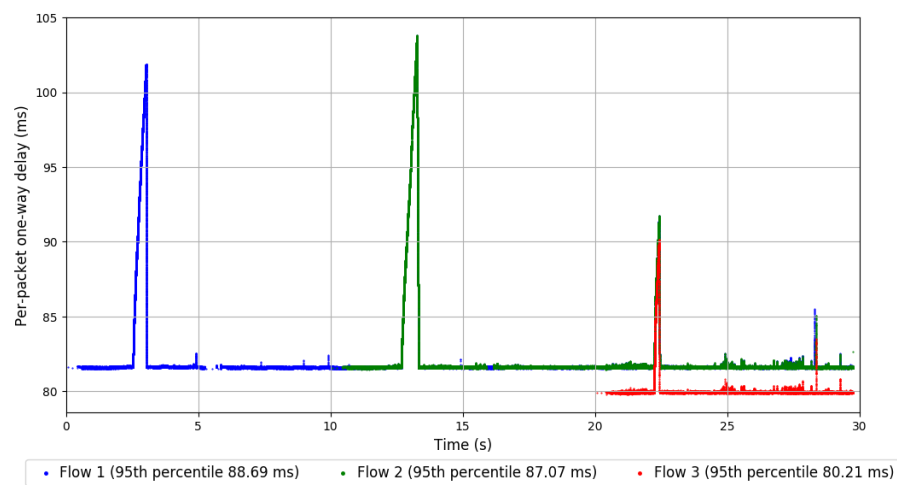
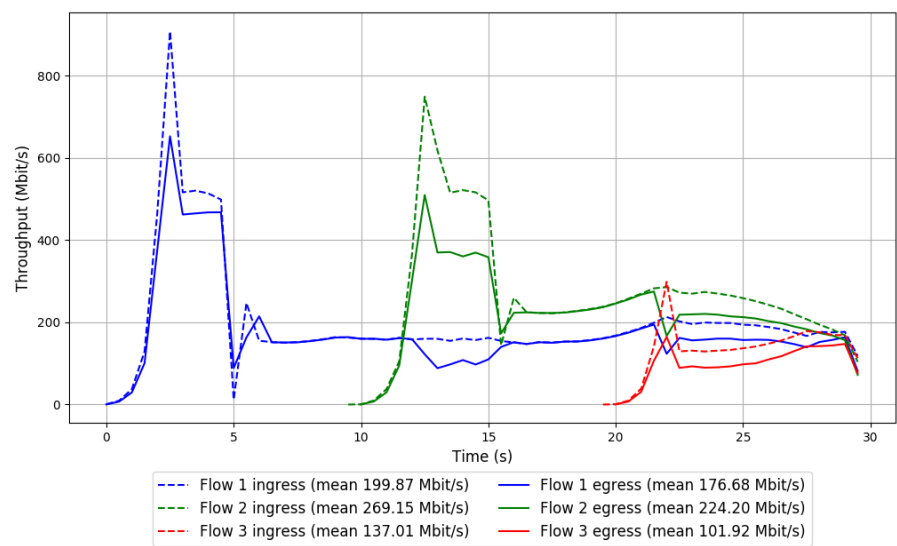
Average throughput: 101.92 Mbit/s

95th percentile per-packet one-way delay: 80.210 ms

Loss rate: 26.89%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-05 21:23:55

End at: 2017-12-05 21:24:25

Local clock offset: 0.016 ms

Remote clock offset: 1.913 ms

# Below is generated by plot.py at 2017-12-06 01:58:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 357.11 Mbit/s

95th percentile per-packet one-way delay: 82.444 ms

Loss rate: 11.41%

-- Flow 1:

Average throughput: 325.02 Mbit/s

95th percentile per-packet one-way delay: 82.444 ms

Loss rate: 9.88%

-- Flow 2:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 80.528 ms

Loss rate: 18.77%

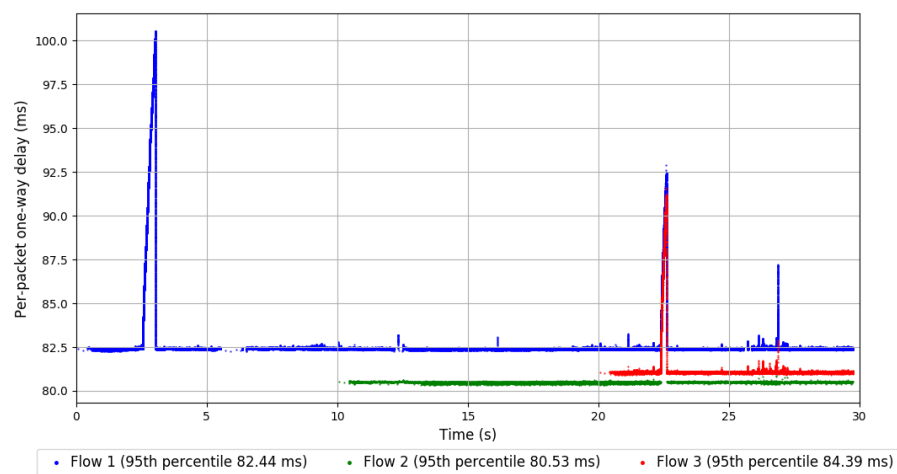
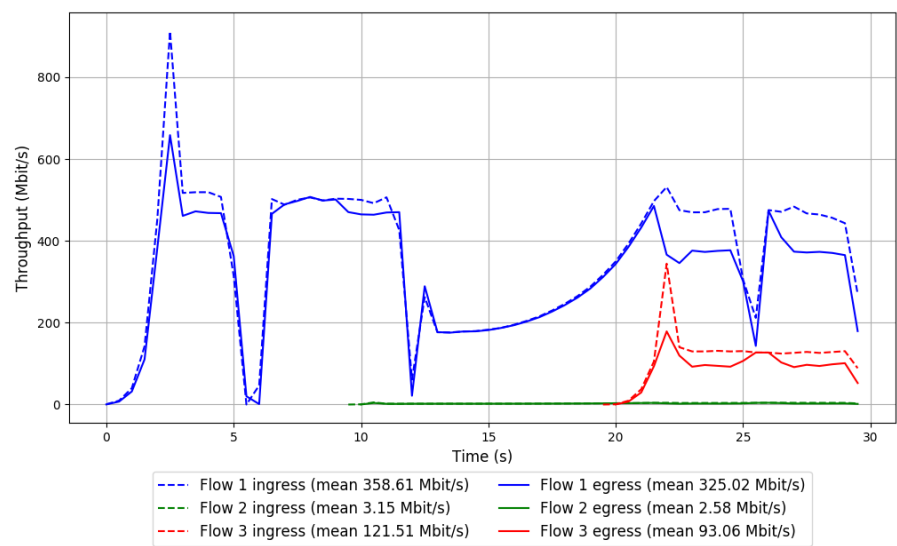
-- Flow 3:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 84.389 ms

Loss rate: 24.73%

Run 8: Report of PCC — Data Link

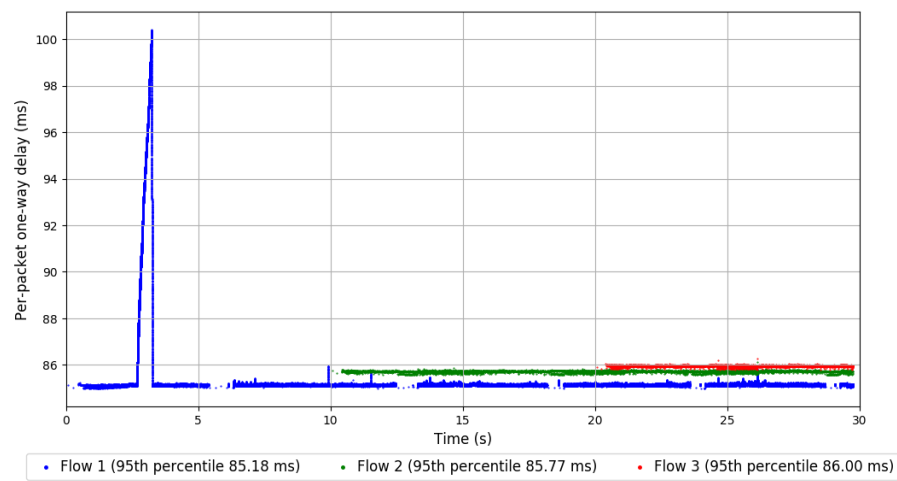
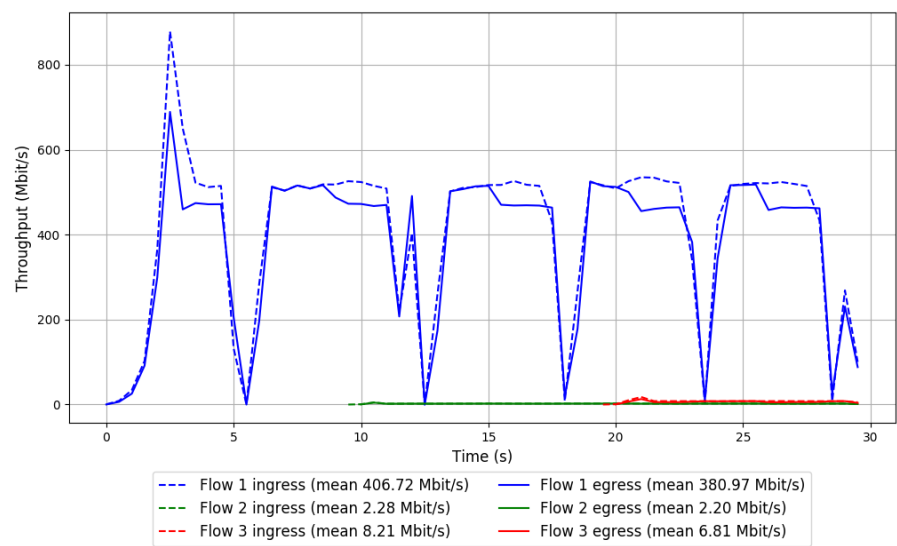


Run 9: Statistics of PCC

Start at: 2017-12-05 21:44:03  
End at: 2017-12-05 21:44:33  
Local clock offset: -0.331 ms  
Remote clock offset: -3.356 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 384.65 Mbit/s  
95th percentile per-packet one-way delay: 85.187 ms  
Loss rate: 6.93%  
-- Flow 1:  
Average throughput: 380.97 Mbit/s  
95th percentile per-packet one-way delay: 85.179 ms  
Loss rate: 6.86%  
-- Flow 2:  
Average throughput: 2.20 Mbit/s  
95th percentile per-packet one-way delay: 85.770 ms  
Loss rate: 4.39%  
-- Flow 3:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 86.000 ms  
Loss rate: 18.49%

Run 9: Report of PCC — Data Link

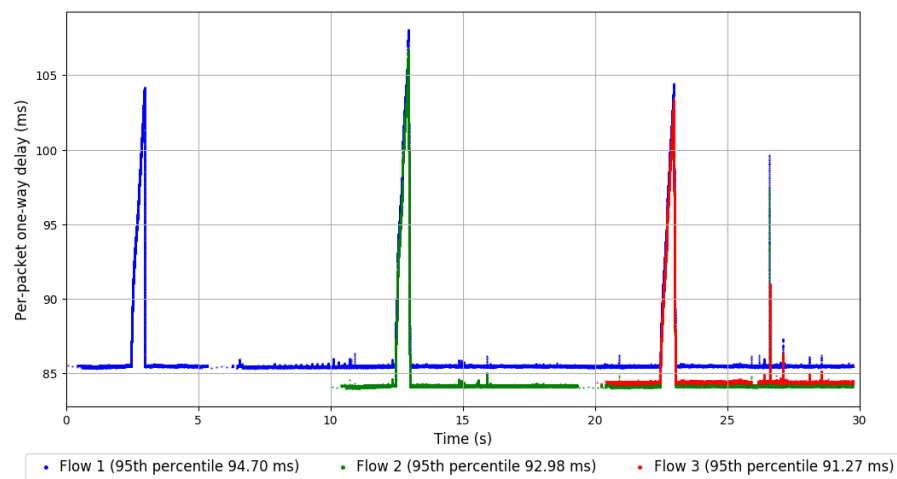
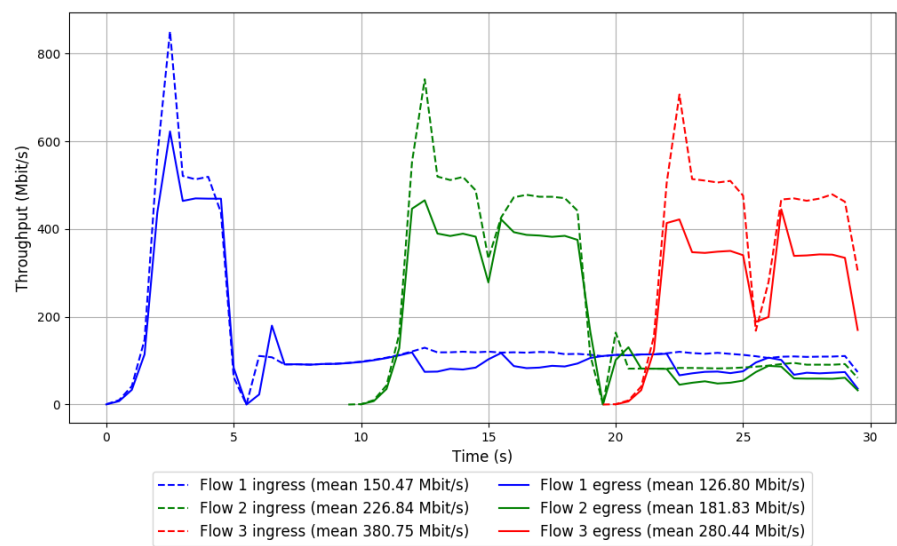


Run 10: Statistics of PCC

Start at: 2017-12-05 22:04:09  
End at: 2017-12-05 22:04:39  
Local clock offset: -1.098 ms  
Remote clock offset: -3.939 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 339.02 Mbit/s  
95th percentile per-packet one-way delay: 93.616 ms  
Loss rate: 21.08%  
-- Flow 1:  
Average throughput: 126.80 Mbit/s  
95th percentile per-packet one-way delay: 94.696 ms  
Loss rate: 16.21%  
-- Flow 2:  
Average throughput: 181.83 Mbit/s  
95th percentile per-packet one-way delay: 92.979 ms  
Loss rate: 20.51%  
-- Flow 3:  
Average throughput: 280.44 Mbit/s  
95th percentile per-packet one-way delay: 91.265 ms  
Loss rate: 27.59%

Run 10: Report of PCC — Data Link



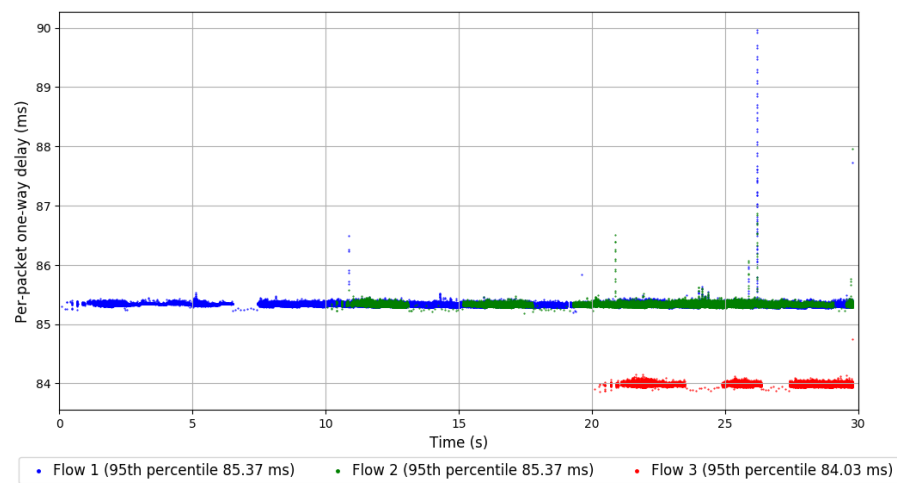
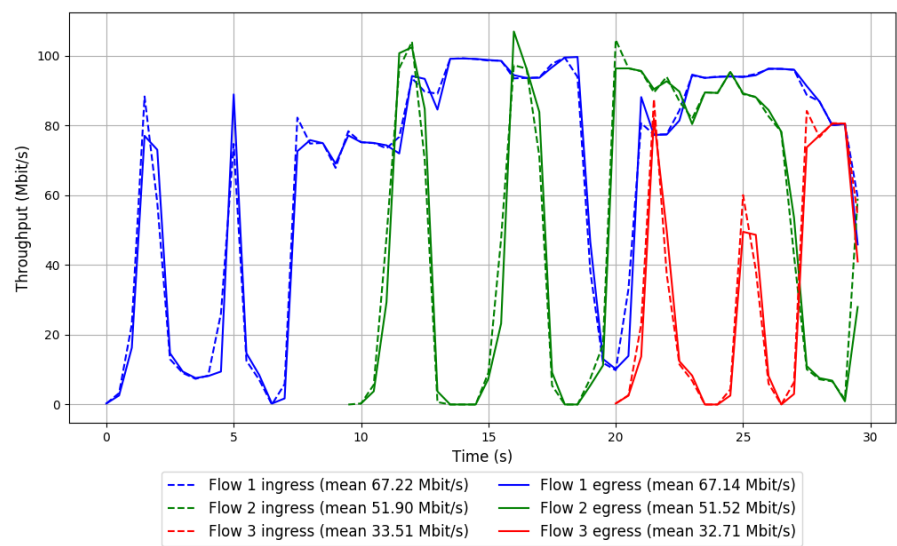
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 18:57:04  
End at: 2017-12-05 18:57:34  
Local clock offset: 1.133 ms  
Remote clock offset: -2.087 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.02 Mbit/s  
95th percentile per-packet one-way delay: 85.366 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 67.14 Mbit/s  
95th percentile per-packet one-way delay: 85.366 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 51.52 Mbit/s  
95th percentile per-packet one-way delay: 85.370 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 32.71 Mbit/s  
95th percentile per-packet one-way delay: 84.027 ms  
Loss rate: 4.03%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 19:17:14

End at: 2017-12-05 19:17:44

Local clock offset: 1.454 ms

Remote clock offset: 2.655 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.86 Mbit/s

95th percentile per-packet one-way delay: 80.661 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 64.18 Mbit/s

95th percentile per-packet one-way delay: 80.633 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 79.535 ms

Loss rate: 0.23%

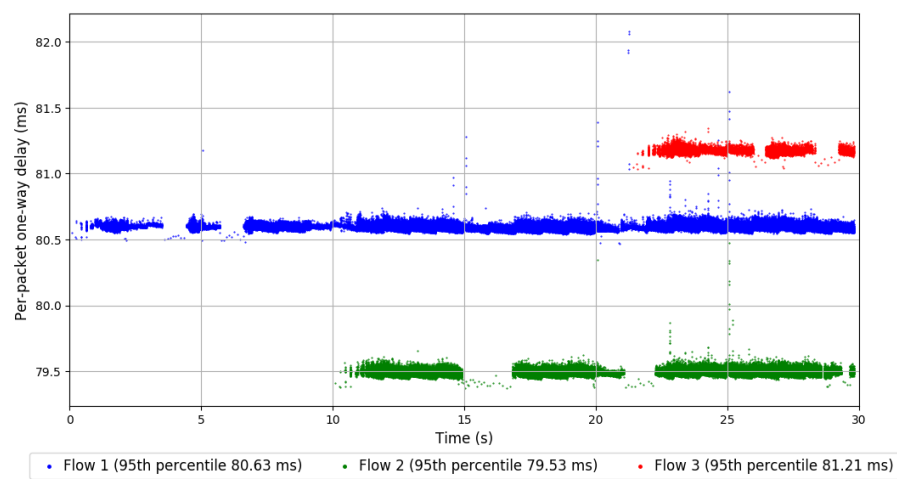
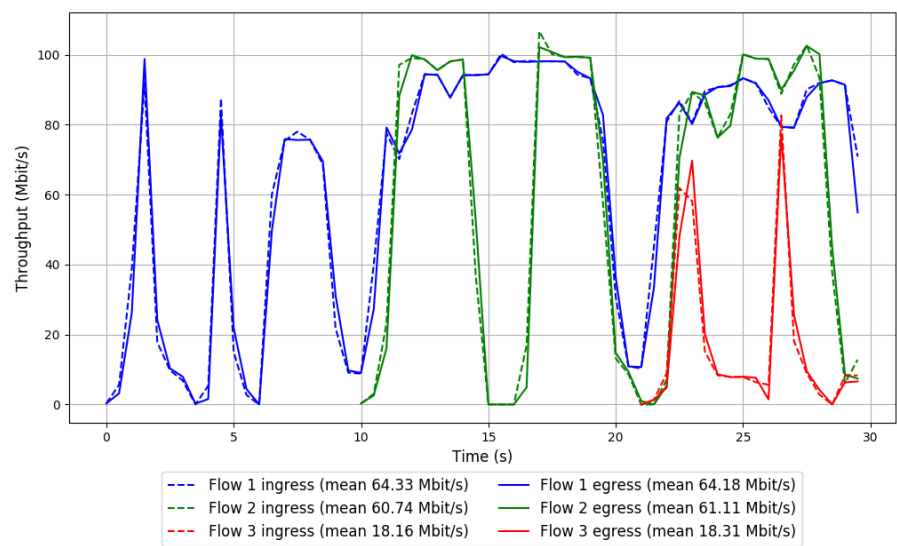
-- Flow 3:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 81.214 ms

Loss rate: 1.15%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 19:37:33

End at: 2017-12-05 19:38:03

Local clock offset: 1.522 ms

Remote clock offset: -2.15 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 114.03 Mbit/s

95th percentile per-packet one-way delay: 87.143 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 86.051 ms

Loss rate: 0.81%

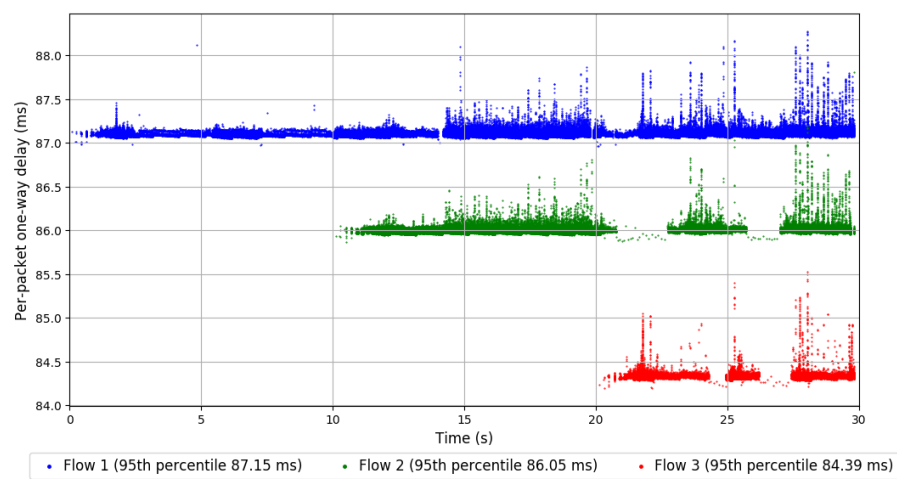
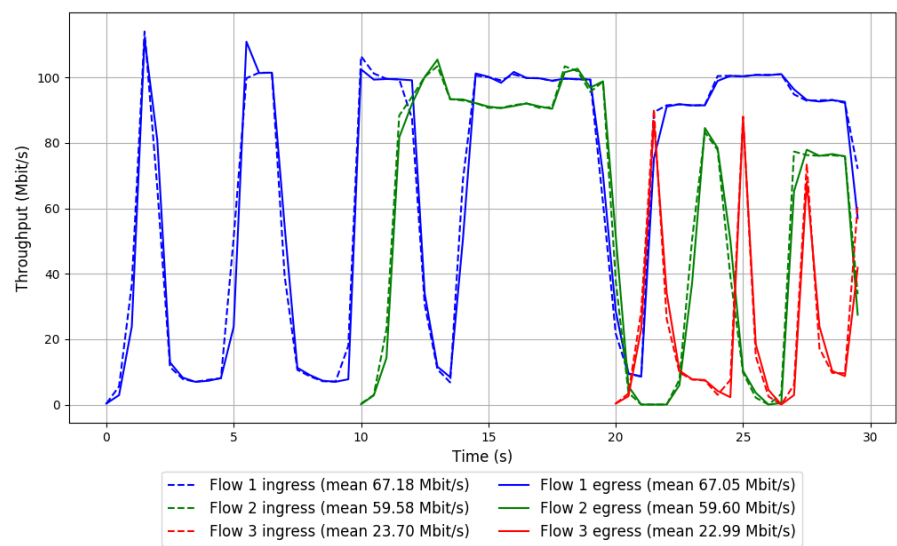
-- Flow 3:

Average throughput: 22.99 Mbit/s

95th percentile per-packet one-way delay: 84.391 ms

Loss rate: 4.62%

Run 3: Report of QUIC Cubic — Data Link

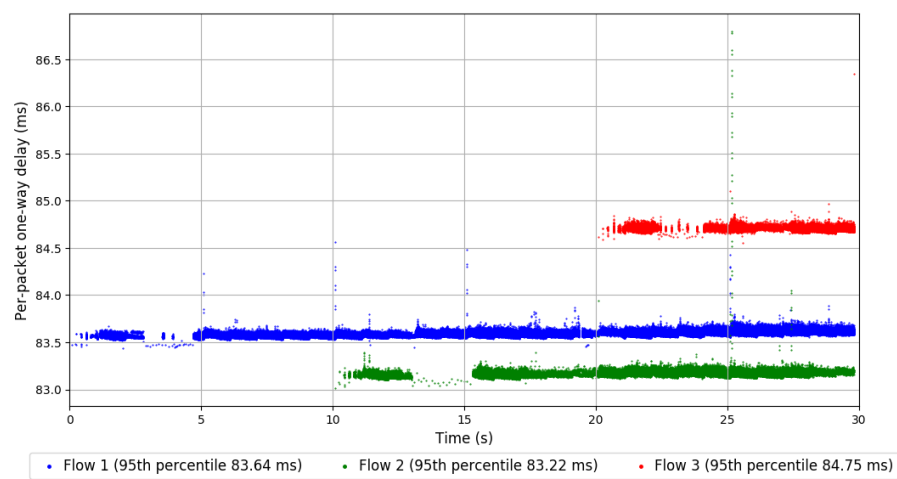
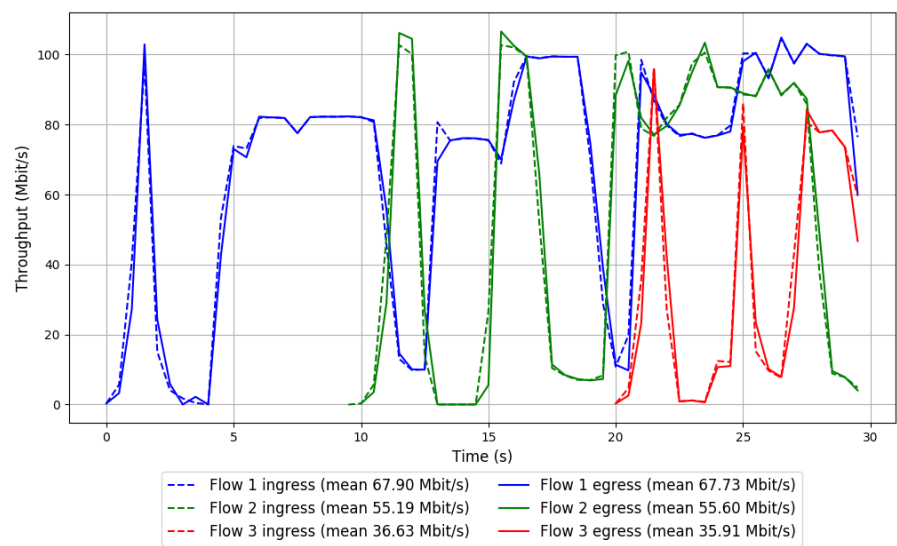


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 19:57:50  
End at: 2017-12-05 19:58:20  
Local clock offset: 1.367 ms  
Remote clock offset: -0.377 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 116.34 Mbit/s  
95th percentile per-packet one-way delay: 84.710 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 67.73 Mbit/s  
95th percentile per-packet one-way delay: 83.645 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 55.60 Mbit/s  
95th percentile per-packet one-way delay: 83.215 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 35.91 Mbit/s  
95th percentile per-packet one-way delay: 84.749 ms  
Loss rate: 3.61%

Run 4: Report of QUIC Cubic — Data Link



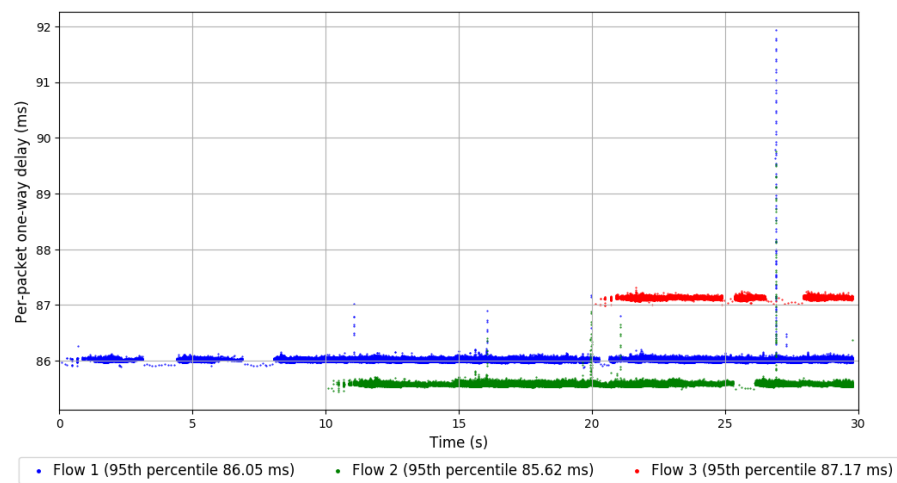
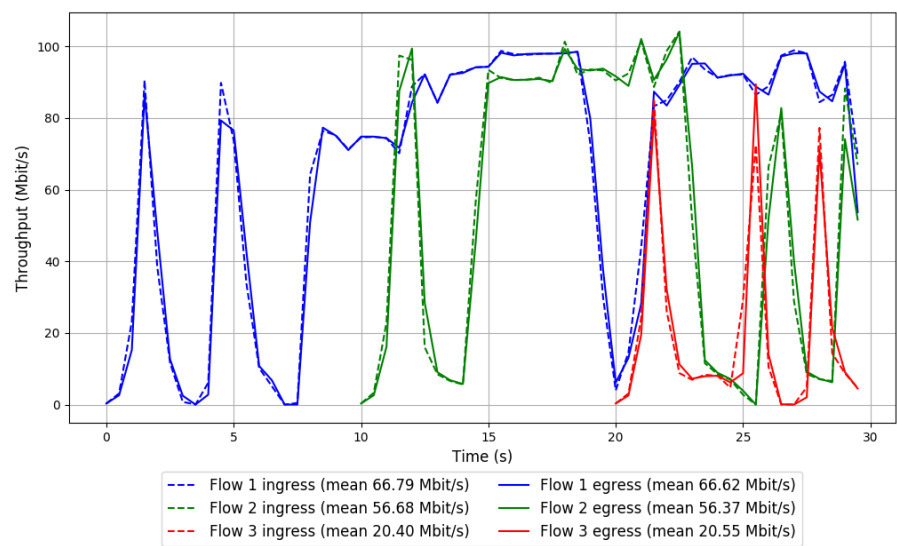
Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 20:17:59  
End at: 2017-12-05 20:18:29  
Local clock offset: 1.084 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 110.68 Mbit/s  
95th percentile per-packet one-way delay: 87.109 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 66.62 Mbit/s  
95th percentile per-packet one-way delay: 86.051 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 56.37 Mbit/s  
95th percentile per-packet one-way delay: 85.620 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 20.55 Mbit/s  
95th percentile per-packet one-way delay: 87.167 ms  
Loss rate: 0.40%



Run 5: Report of QUIC Cubic — Data Link

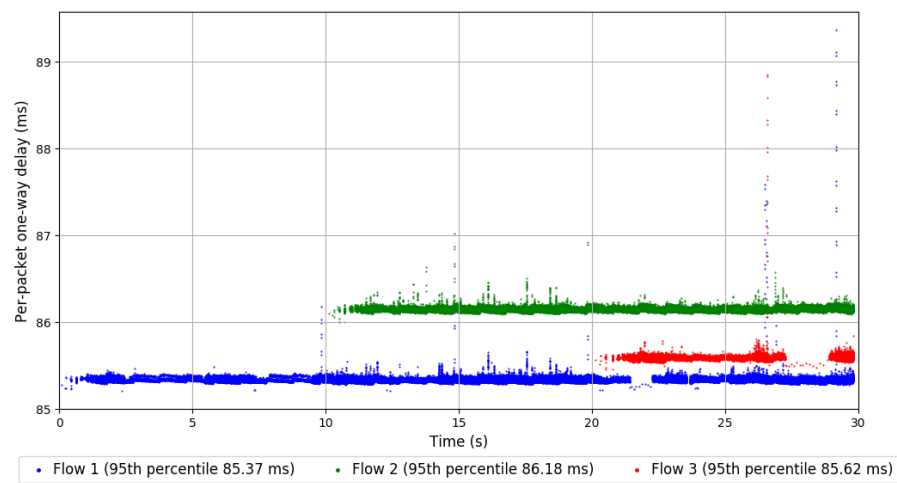
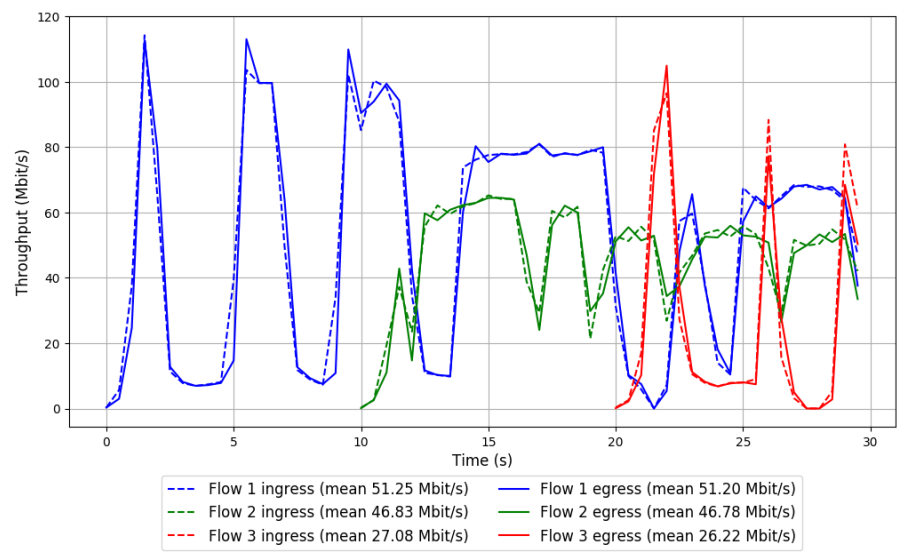


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-05 20:38:10  
End at: 2017-12-05 20:38:40  
Local clock offset: 0.631 ms  
Remote clock offset: -0.736 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.72 Mbit/s  
95th percentile per-packet one-way delay: 86.164 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 51.20 Mbit/s  
95th percentile per-packet one-way delay: 85.368 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 46.78 Mbit/s  
95th percentile per-packet one-way delay: 86.178 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 26.22 Mbit/s  
95th percentile per-packet one-way delay: 85.625 ms  
Loss rate: 4.83%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

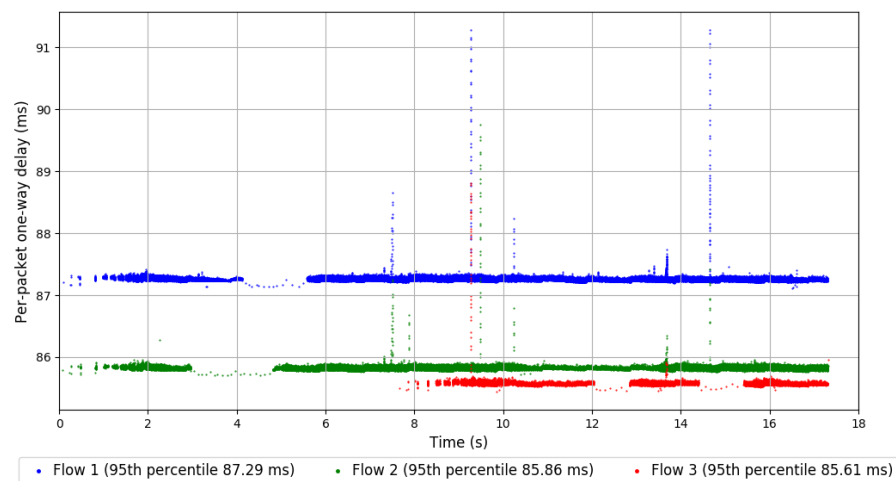
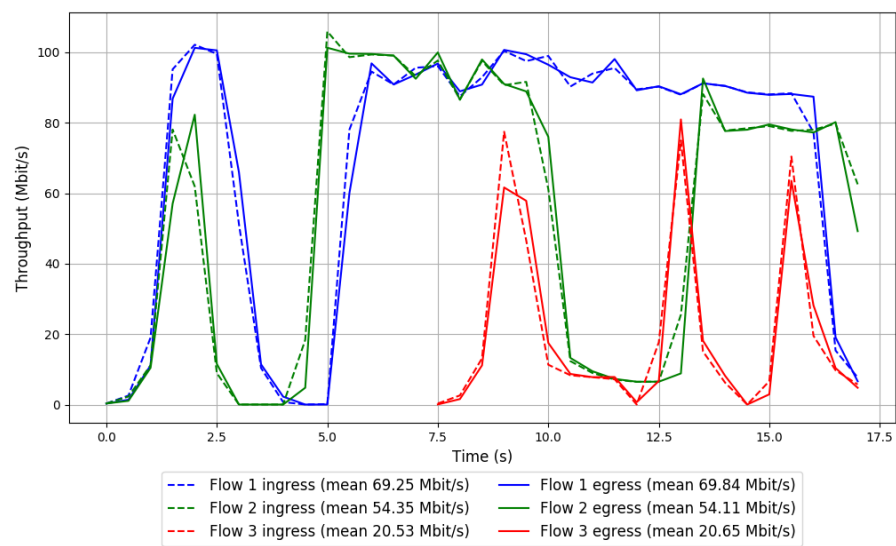
Start at: 2017-12-05 20:58:27

End at: 2017-12-05 20:58:57

Local clock offset: 0.178 ms

Remote clock offset: -1.87 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

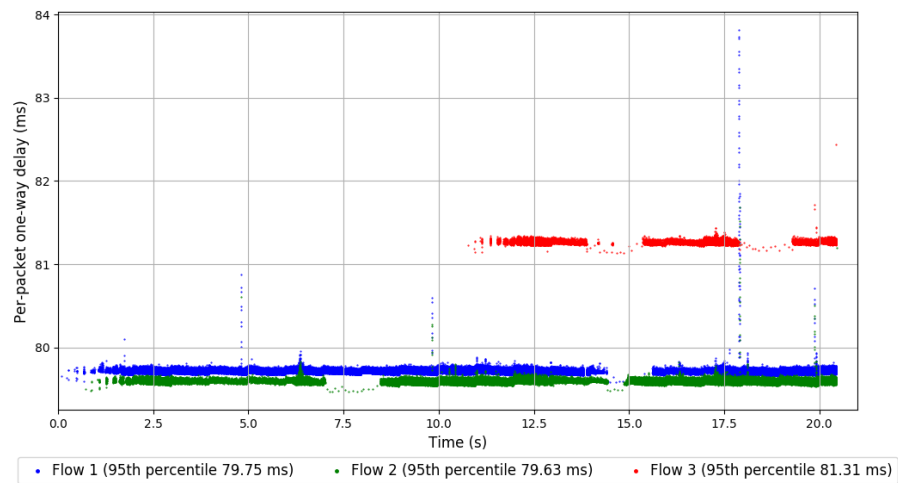
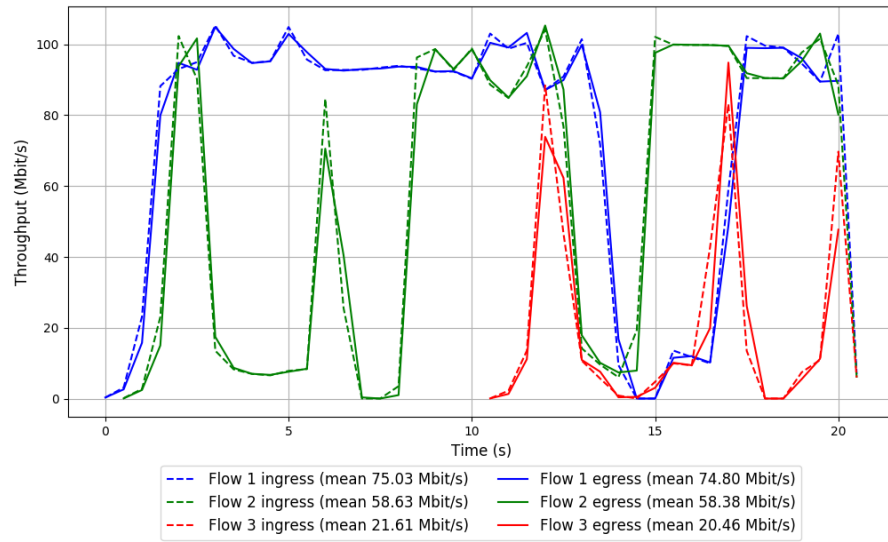
Start at: 2017-12-05 21:18:33

End at: 2017-12-05 21:19:03

Local clock offset: 0.09 ms

Remote clock offset: 3.285 ms

# Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-05 21:38:33

End at: 2017-12-05 21:39:03

Local clock offset: -0.169 ms

Remote clock offset: 1.589 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 105.20 Mbit/s

95th percentile per-packet one-way delay: 81.799 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 81.805 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 47.03 Mbit/s

95th percentile per-packet one-way delay: 79.027 ms

Loss rate: 0.00%

-- Flow 3:

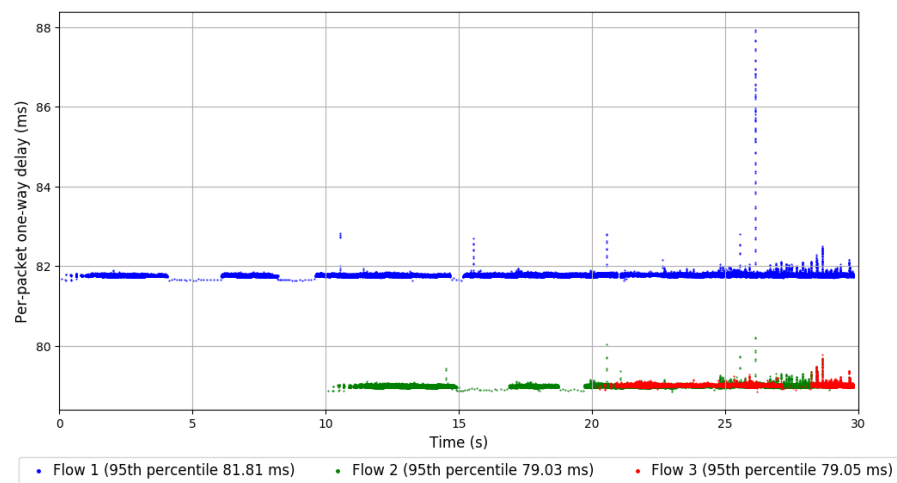
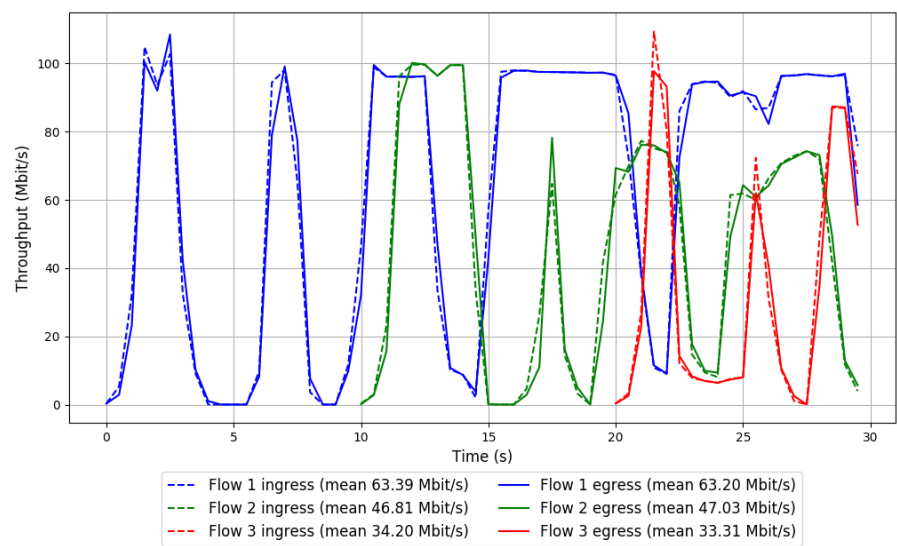
Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 79.045 ms

Loss rate: 4.24%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-05 21:58:44

End at: 2017-12-05 21:59:14

Local clock offset: -0.971 ms

Remote clock offset: 1.574 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.84 Mbit/s

95th percentile per-packet one-way delay: 80.034 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 79.794 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 80.048 ms

Loss rate: 1.33%

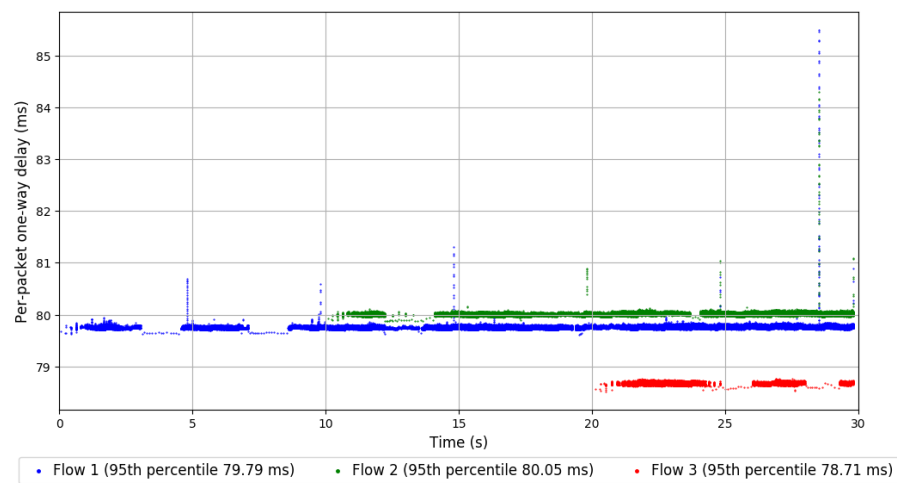
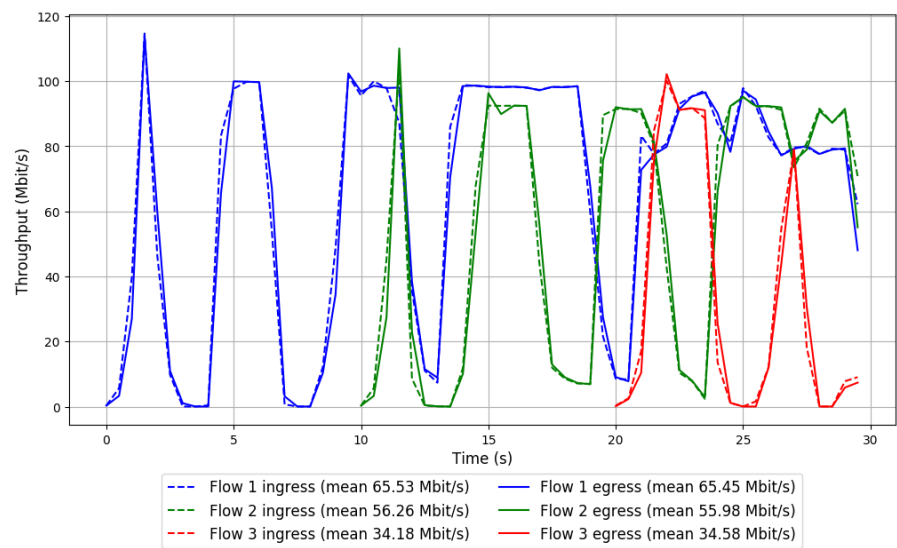
-- Flow 3:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 78.712 ms

Loss rate: 0.54%

Run 10: Report of QUIC Cubic — Data Link

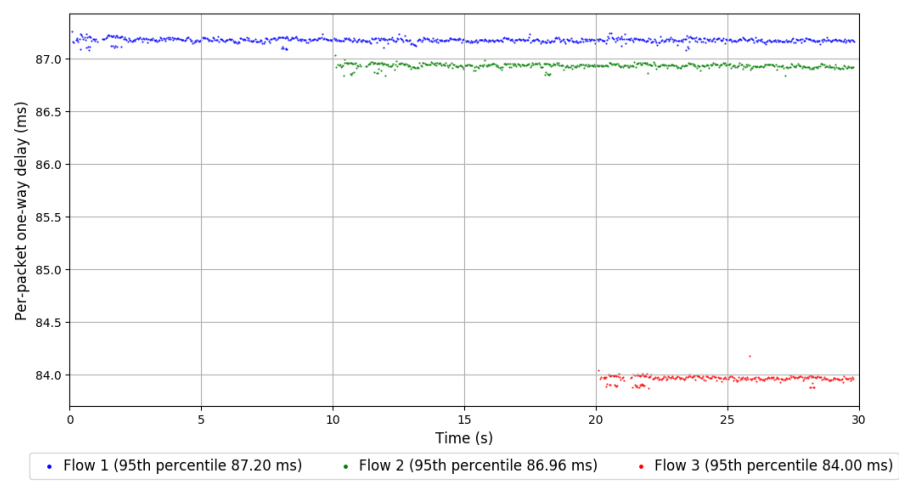
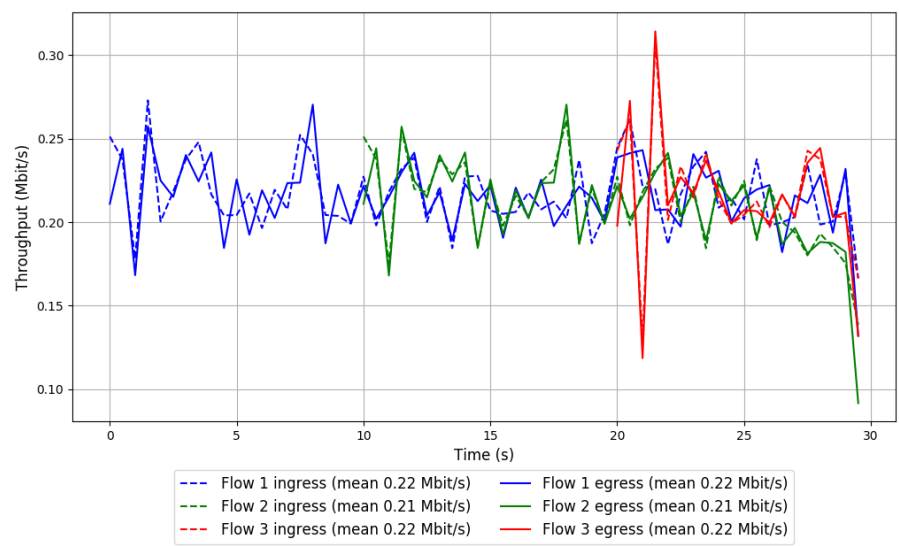


```
Run 1: Statistics of SReAM

Start at: 2017-12-05 19:01:18
End at: 2017-12-05 19:01:48
Local clock offset: 1.283 ms
Remote clock offset: -2.242 ms

# Below is generated by plot.py at 2017-12-06 02:02:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.200 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.205 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.961 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.997 ms
Loss rate: 1.52%
```

Run 1: Report of SReAM — Data Link

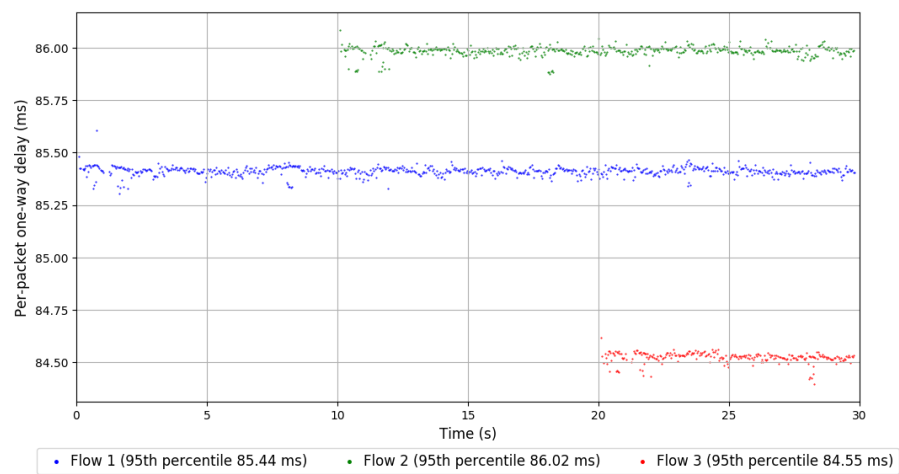
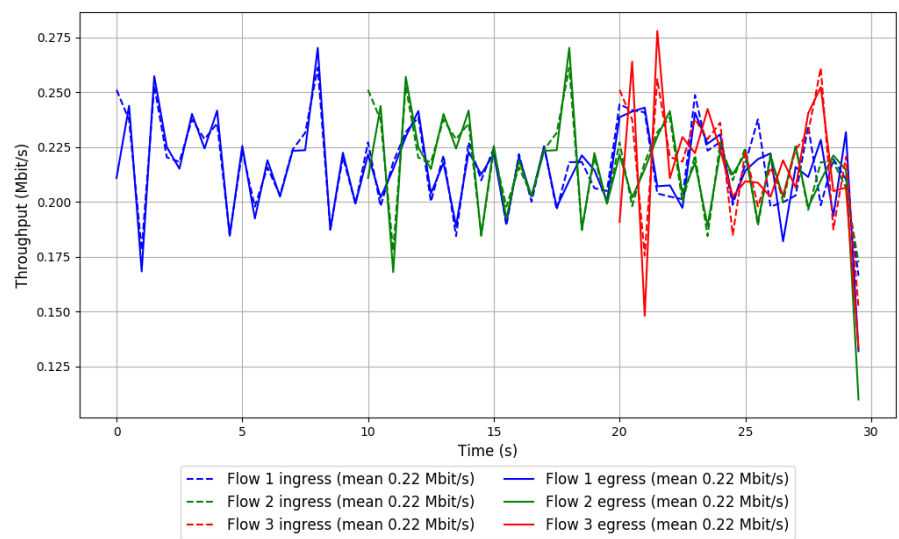


Run 2: Statistics of SReAM

Start at: 2017-12-05 19:21:28  
End at: 2017-12-05 19:21:58  
Local clock offset: 1.503 ms  
Remote clock offset: -2.333 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 86.005 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.439 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.016 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.551 ms  
Loss rate: 1.53%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-12-05 19:41:47

End at: 2017-12-05 19:42:17

Local clock offset: 1.546 ms

Remote clock offset: 2.94 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.590 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.348 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.597 ms

Loss rate: 0.84%

-- Flow 3:

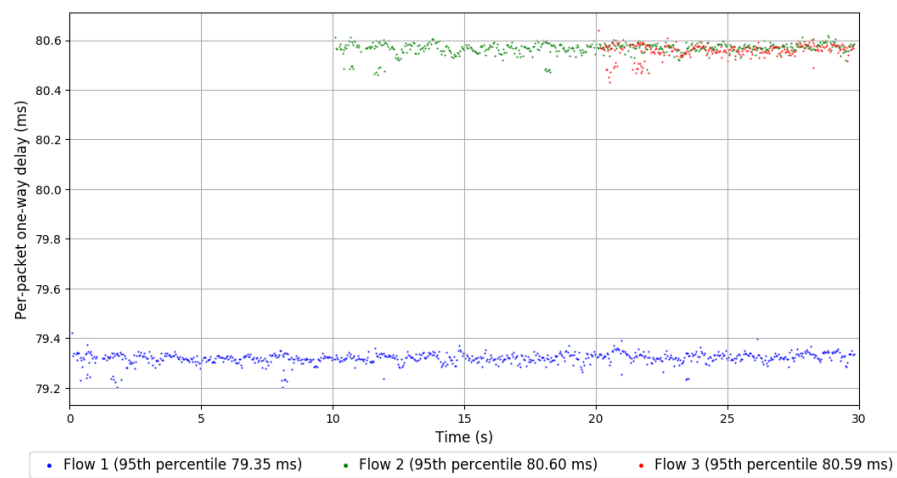
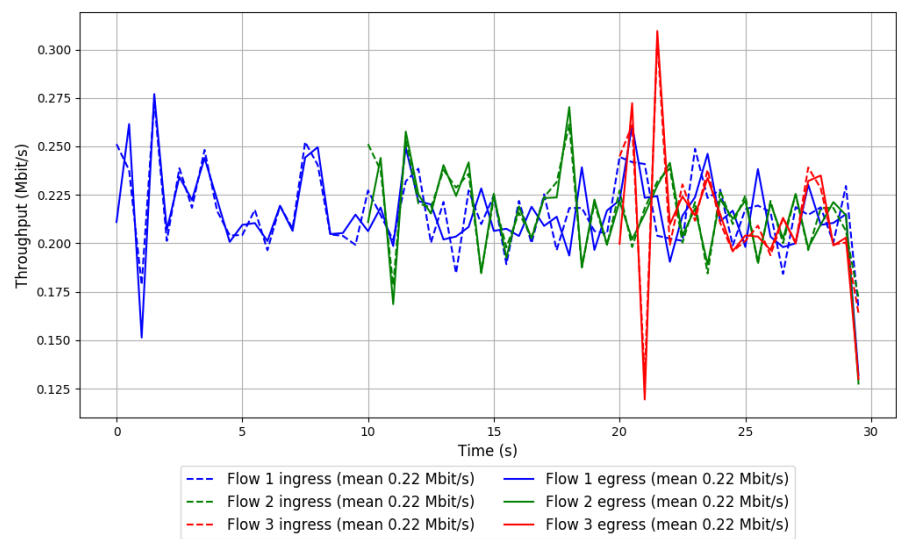
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.592 ms

Loss rate: 1.52%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-12-05 20:02:07

End at: 2017-12-05 20:02:37

Local clock offset: 1.28 ms

Remote clock offset: 4.697 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 79.921 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.514 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.408 ms

Loss rate: 0.84%

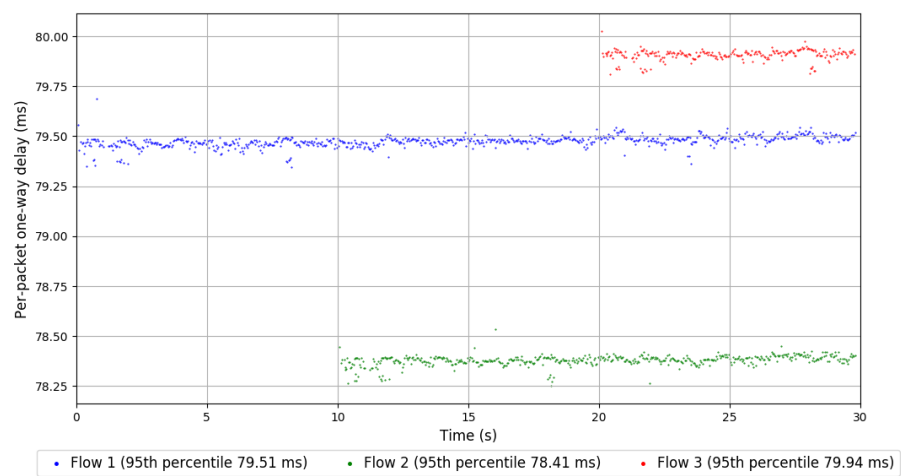
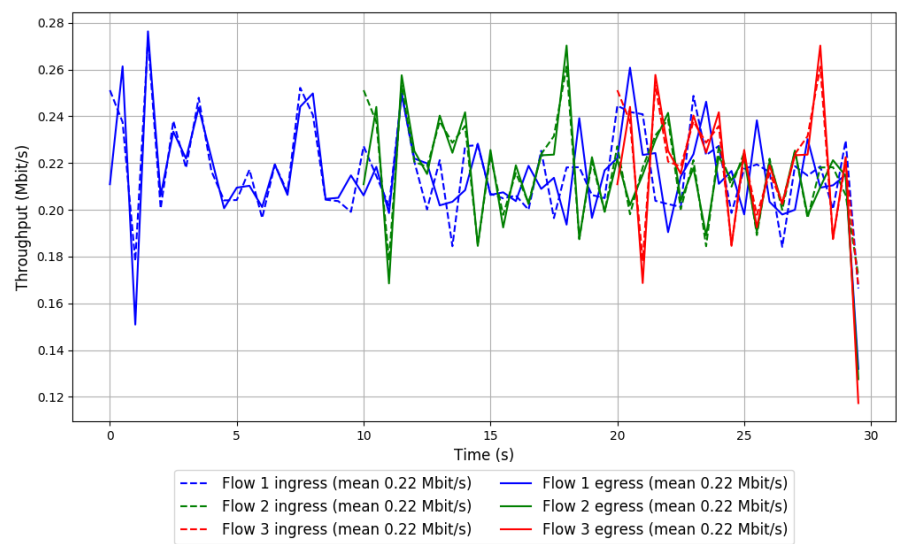
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.938 ms

Loss rate: 1.87%

Run 4: Report of SCRaM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-12-05 20:22:13

End at: 2017-12-05 20:22:43

Local clock offset: 0.928 ms

Remote clock offset: 6.111 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 80.858 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 80.864 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 77.662 ms

Loss rate: 1.05%

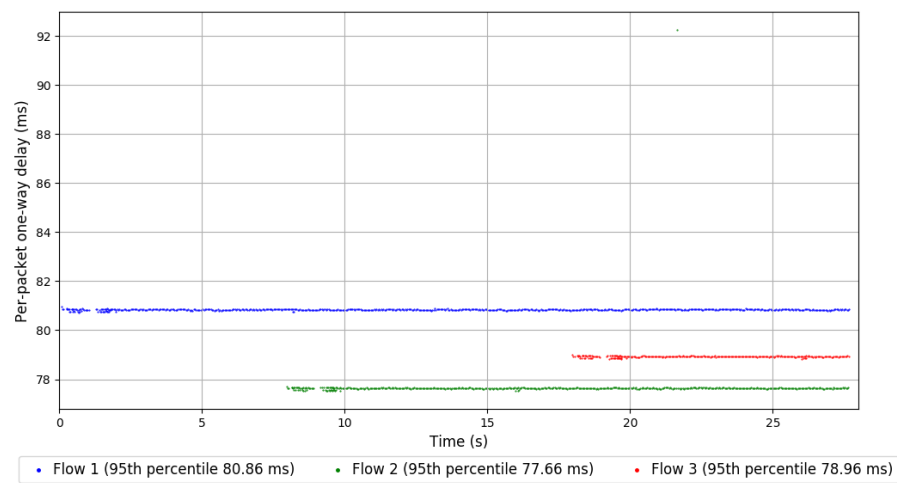
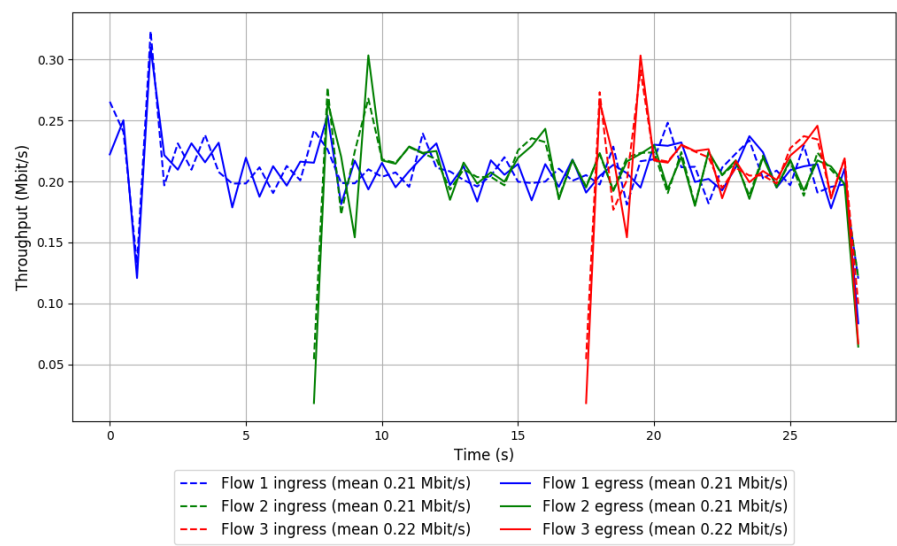
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.957 ms

Loss rate: 1.52%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

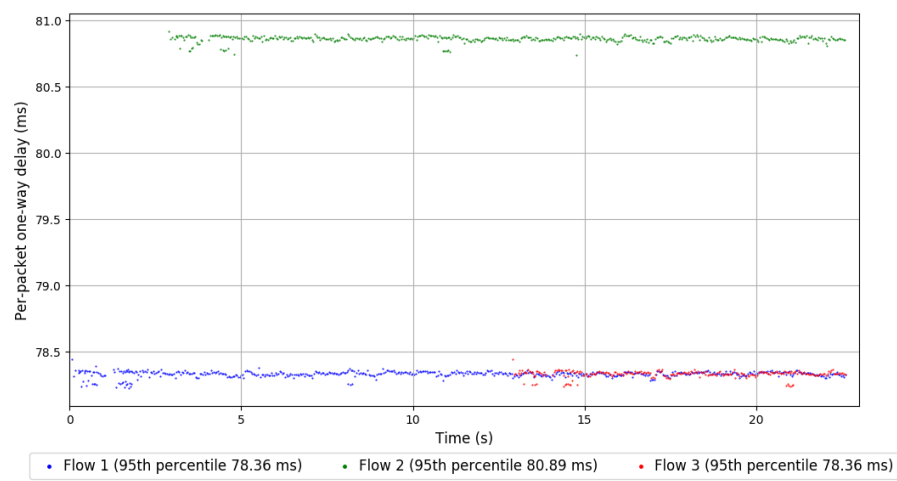
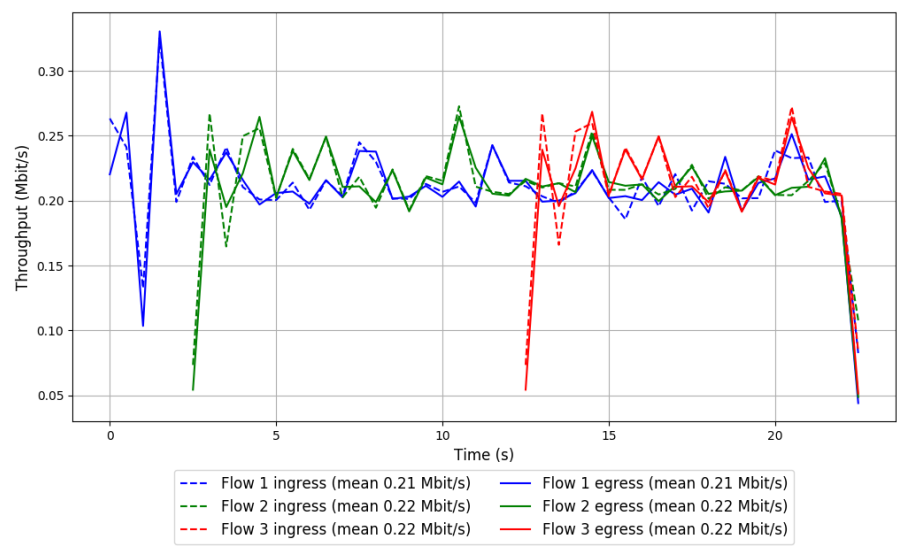
Start at: 2017-12-05 20:42:24

End at: 2017-12-05 20:42:54

Local clock offset: 0.541 ms

Remote clock offset: 5.317 ms

Run 6: Report of SReAM — Data Link



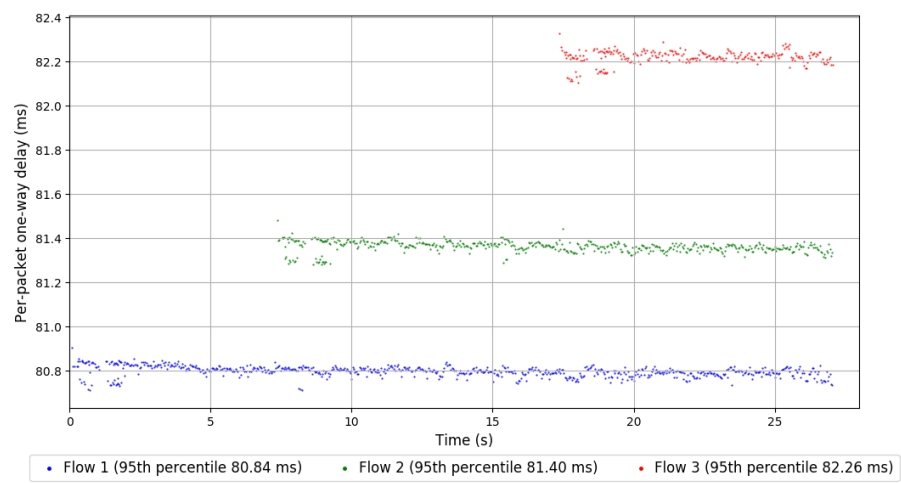
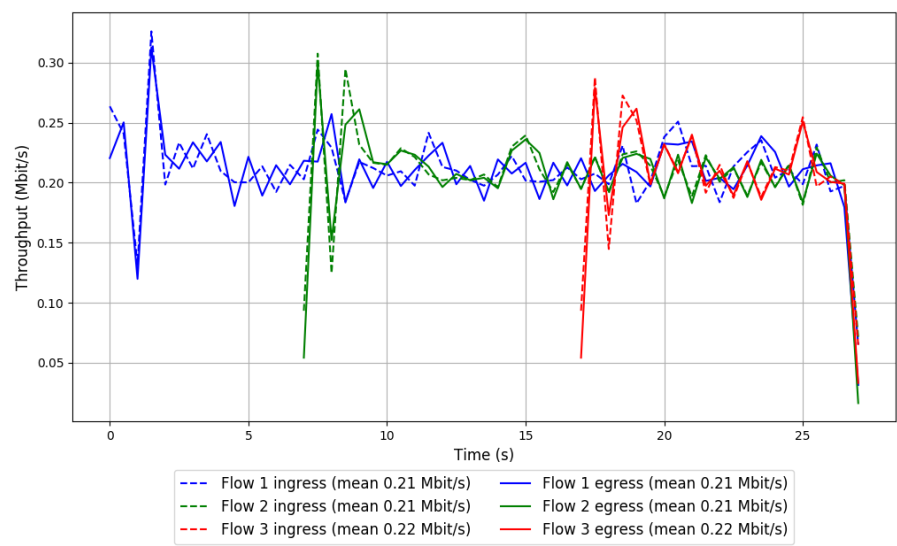
Run 7: Statistics of SReAM

Start at: 2017-12-05 21:02:41  
End at: 2017-12-05 21:03:11  
Local clock offset: 0.203 ms  
Remote clock offset: 2.939 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 82.236 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 80.836 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 81.399 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 82.258 ms  
Loss rate: 1.52%



Run 7: Report of SReAM — Data Link

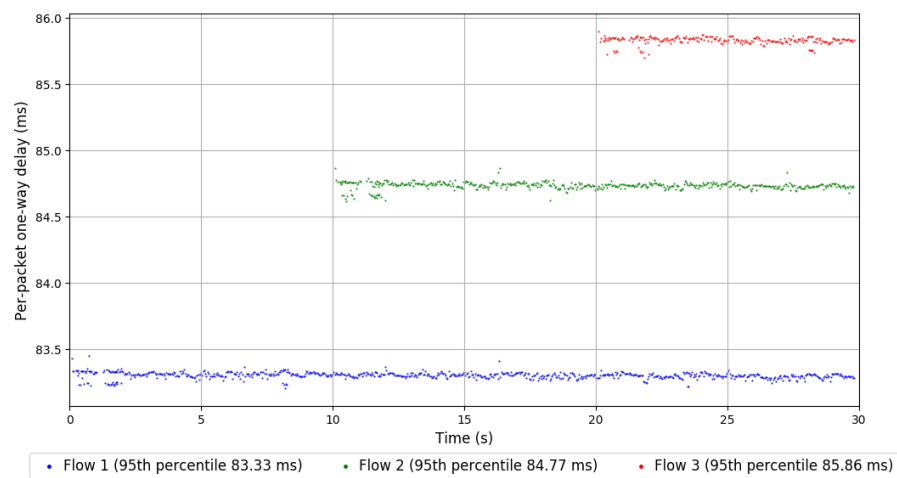
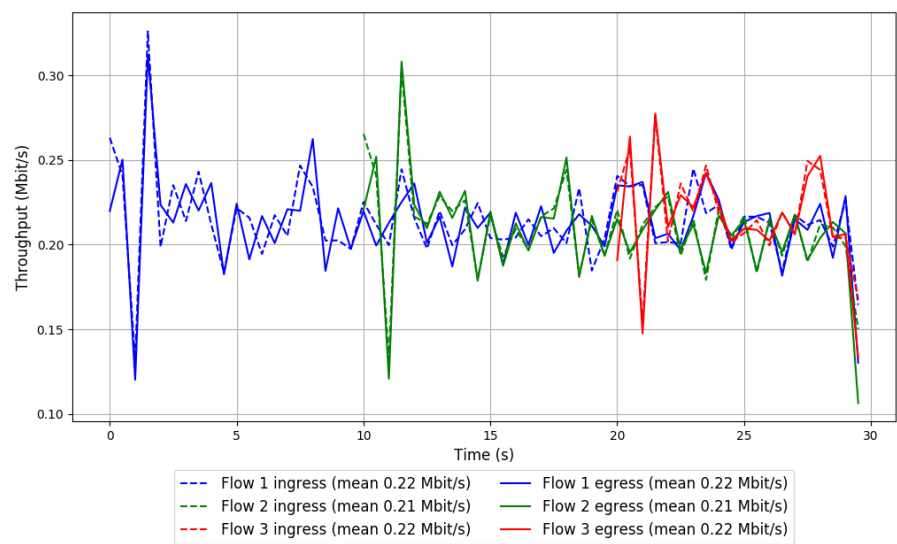


Run 8: Statistics of SCReAM

Start at: 2017-12-05 21:22:42  
End at: 2017-12-05 21:23:12  
Local clock offset: 0.047 ms  
Remote clock offset: -1.706 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 85.846 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.335 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 84.769 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.862 ms  
Loss rate: 1.53%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

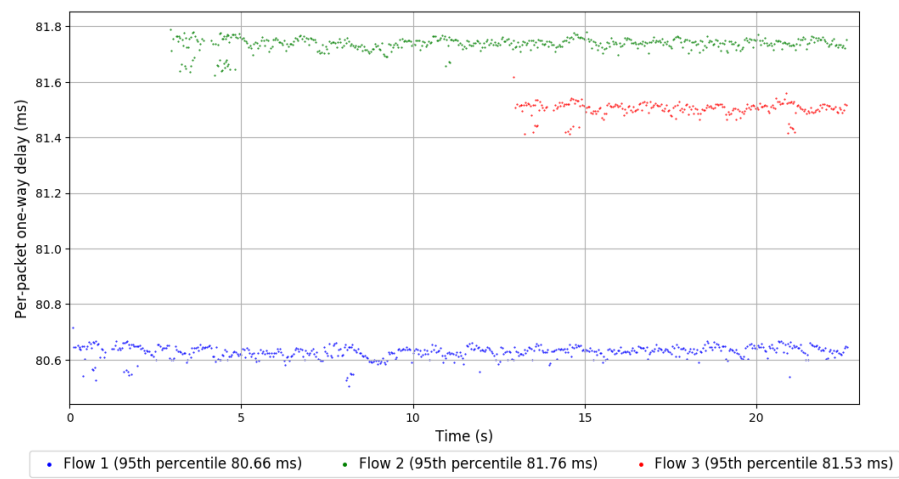
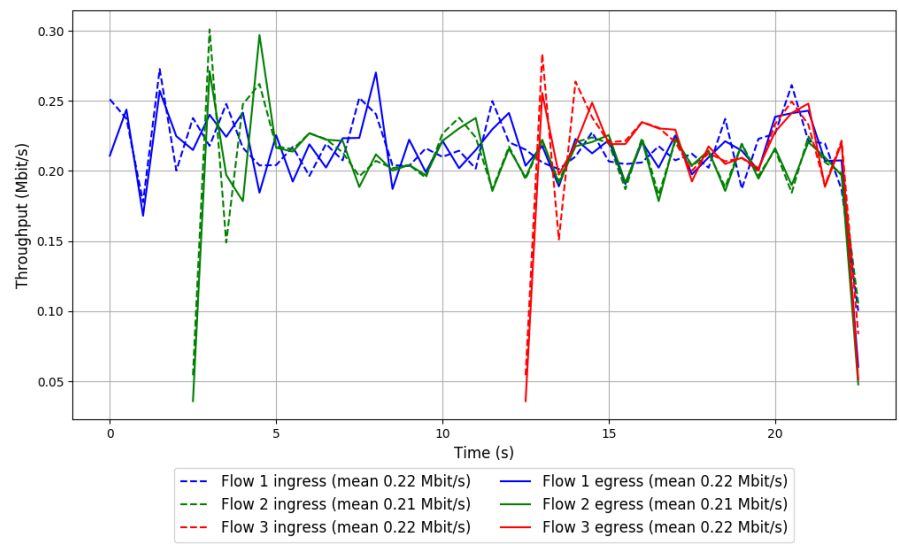
Start at: 2017-12-05 21:42:49

End at: 2017-12-05 21:43:19

Local clock offset: -0.301 ms

Remote clock offset: 1.973 ms

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

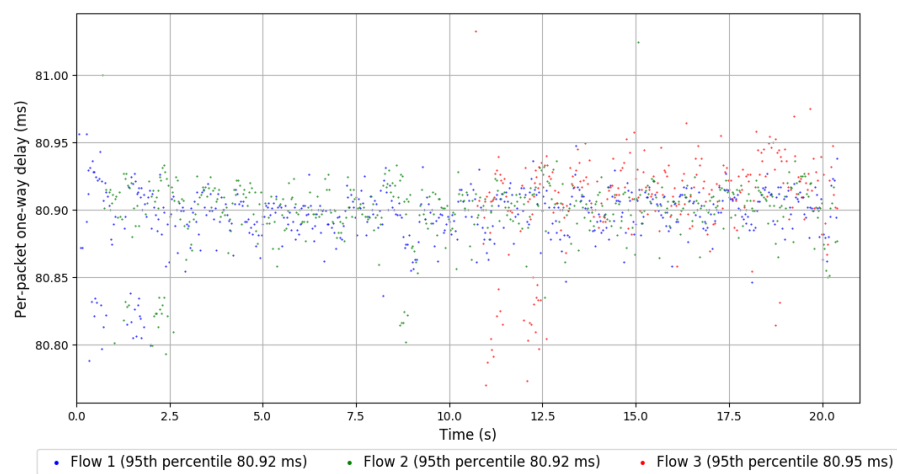
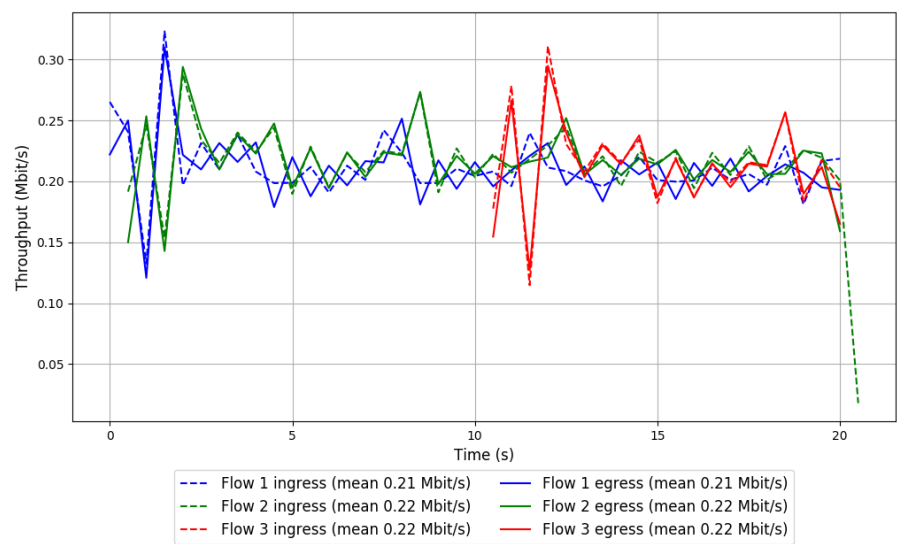
Start at: 2017-12-05 22:02:55

End at: 2017-12-05 22:03:25

Local clock offset: -1.058 ms

Remote clock offset: 2.364 ms

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-05 18:58:28

End at: 2017-12-05 18:58:58

Local clock offset: 1.218 ms

Remote clock offset: 3.605 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 79.923 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 81.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 79.344 ms

Loss rate: 0.77%

-- Flow 3:

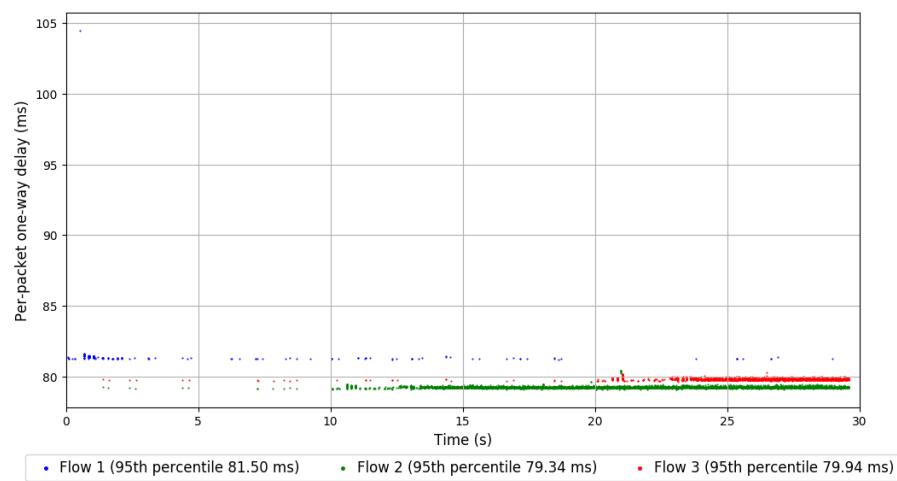
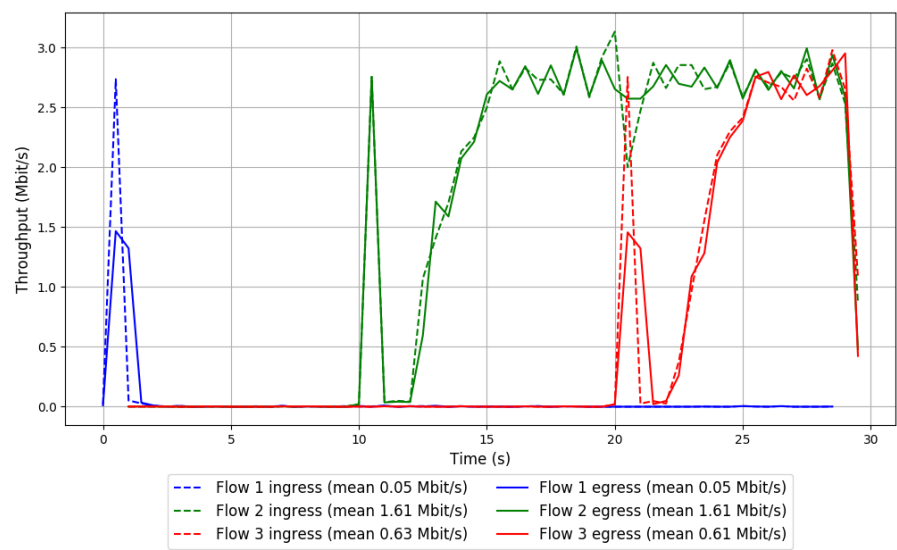
Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 79.940 ms

Loss rate: 2.45%



Run 1: Report of WebRTC media — Data Link

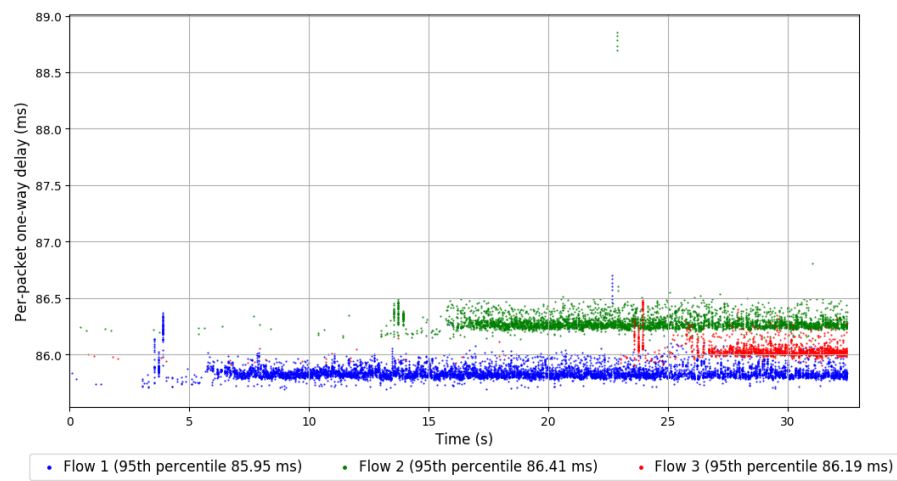
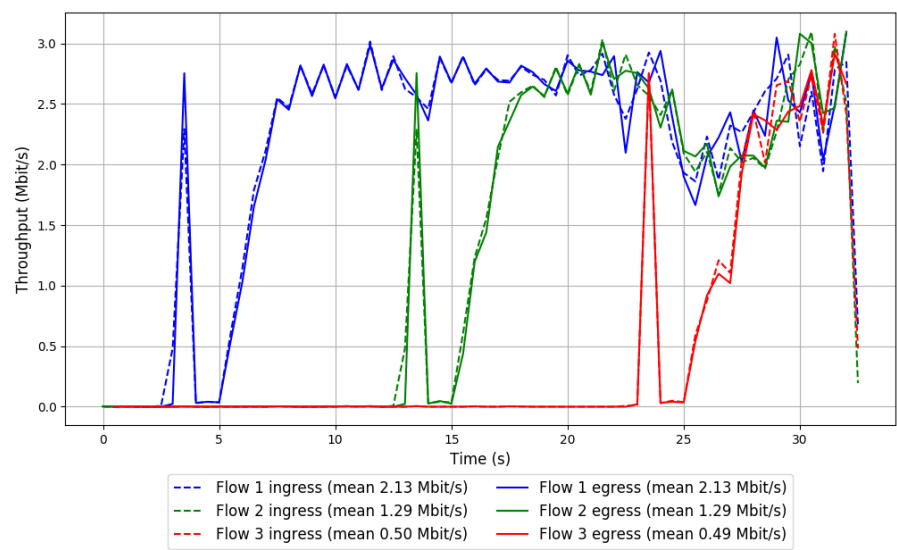


Run 2: Statistics of WebRTC media

Start at: 2017-12-05 19:18:35  
End at: 2017-12-05 19:19:05  
Local clock offset: 1.543 ms  
Remote clock offset: -2.369 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.89 Mbit/s  
95th percentile per-packet one-way delay: 86.341 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 85.955 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 86.409 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 86.194 ms  
Loss rate: 2.47%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

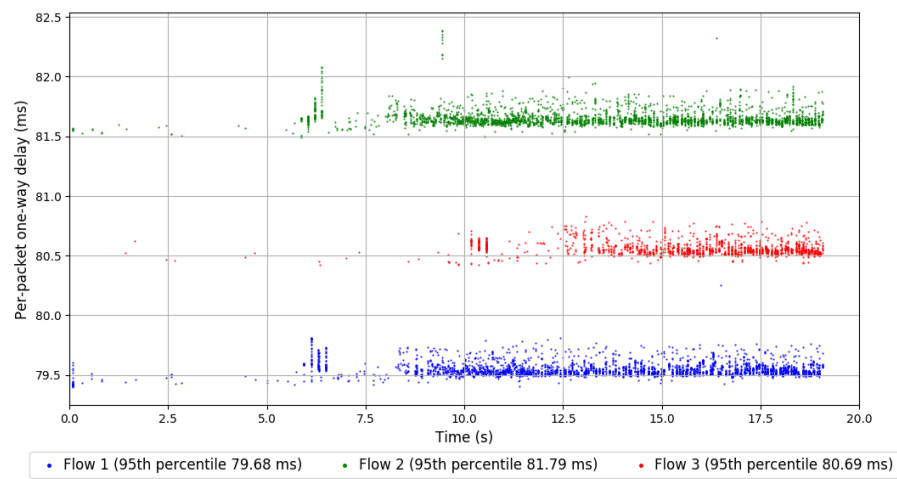
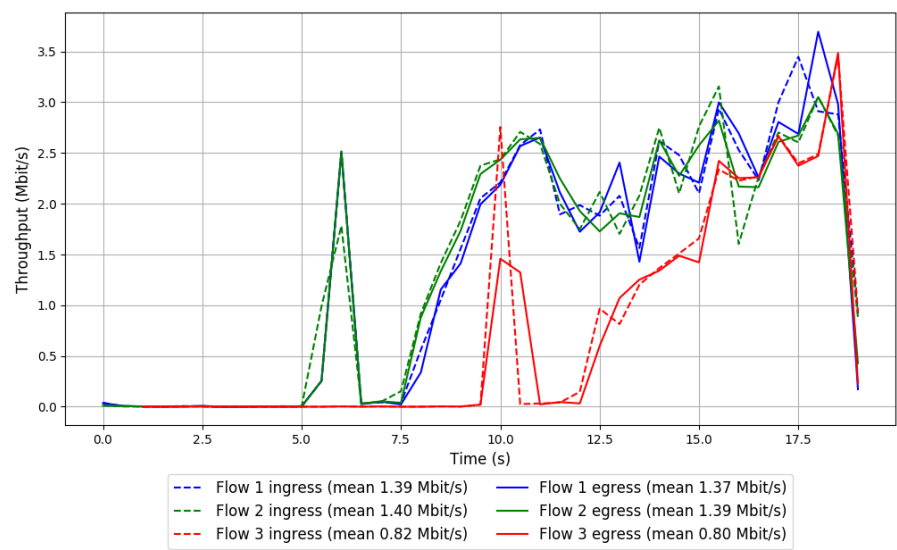
Start at: 2017-12-05 19:38:54

End at: 2017-12-05 19:39:24

Local clock offset: 1.598 ms

Remote clock offset: 3.393 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

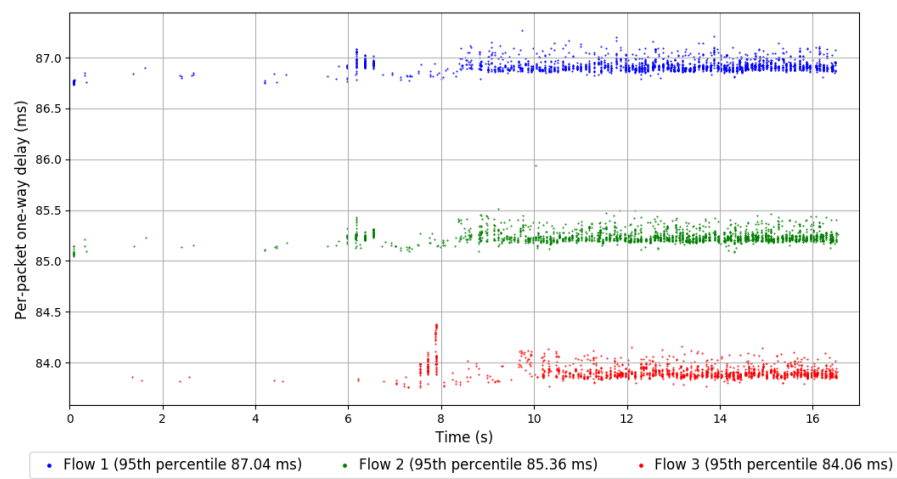
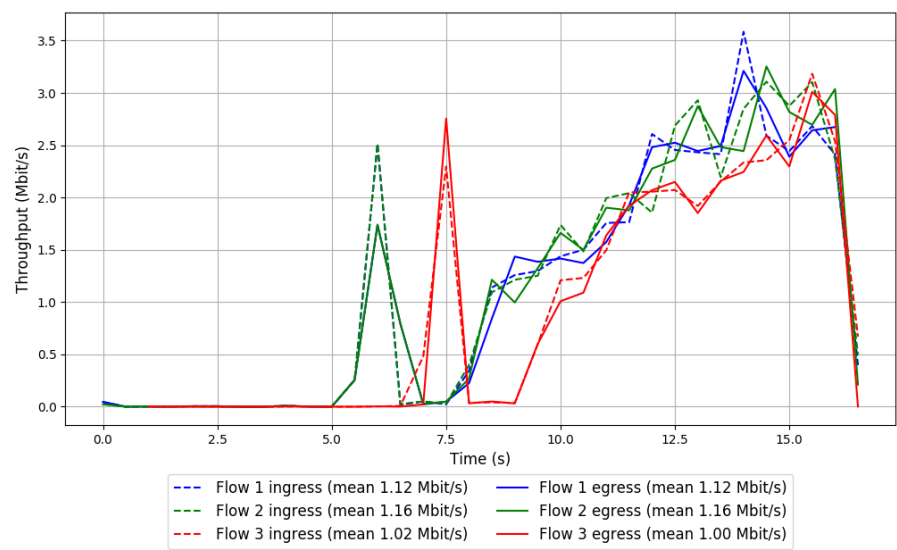
Start at: 2017-12-05 19:59:12

End at: 2017-12-05 19:59:42

Local clock offset: 1.301 ms

Remote clock offset: -0.854 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-05 20:19:19

End at: 2017-12-05 20:19:49

Local clock offset: 1.096 ms

Remote clock offset: 0.729 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 86.194 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.038 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 86.241 ms

Loss rate: 0.70%

-- Flow 3:

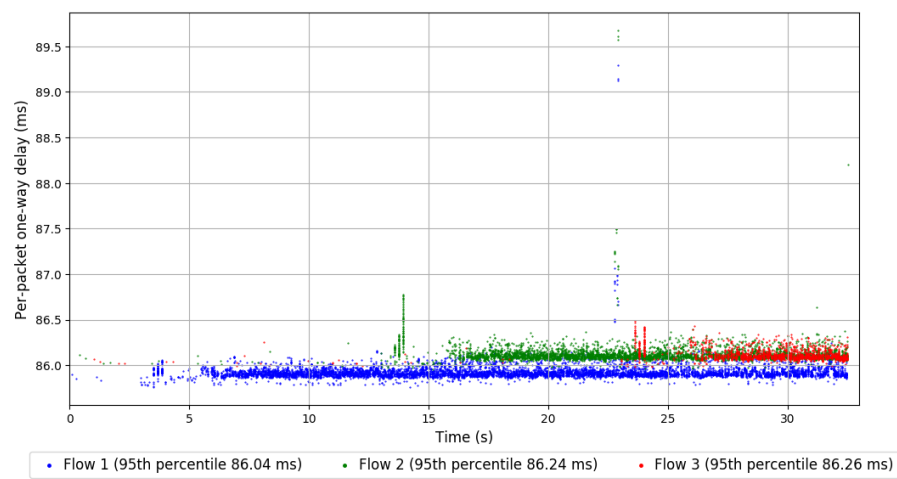
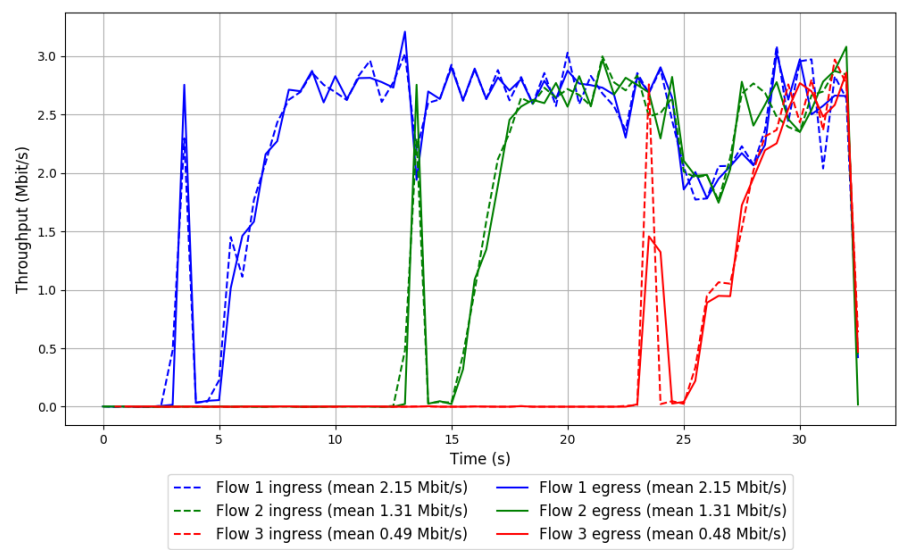
Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 86.258 ms

Loss rate: 2.59%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-05 20:39:30

End at: 2017-12-05 20:40:00

Local clock offset: 0.548 ms

Remote clock offset: 5.06 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 81.442 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 81.477 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 78.729 ms

Loss rate: 1.17%

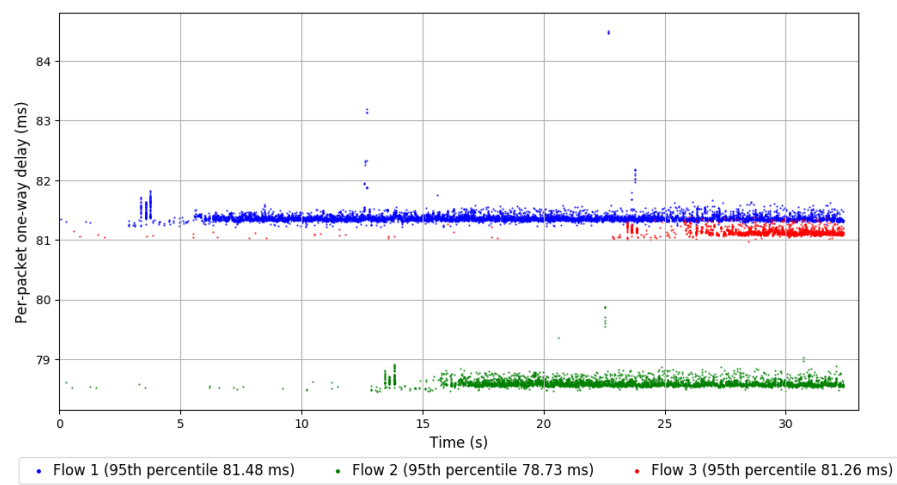
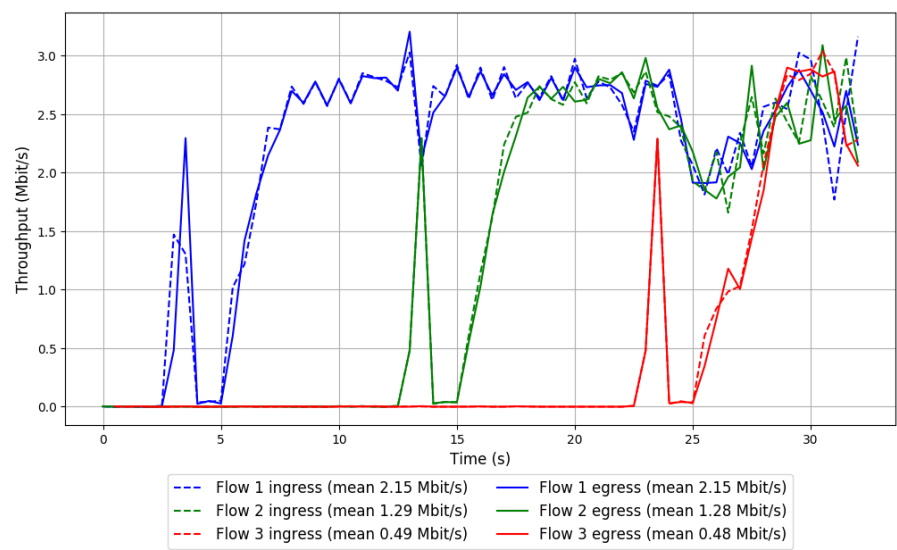
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 81.258 ms

Loss rate: 2.20%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-05 20:59:46

End at: 2017-12-05 21:00:16

Local clock offset: 0.237 ms

Remote clock offset: 4.547 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 81.137 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 81.177 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 79.077 ms

Loss rate: 0.51%

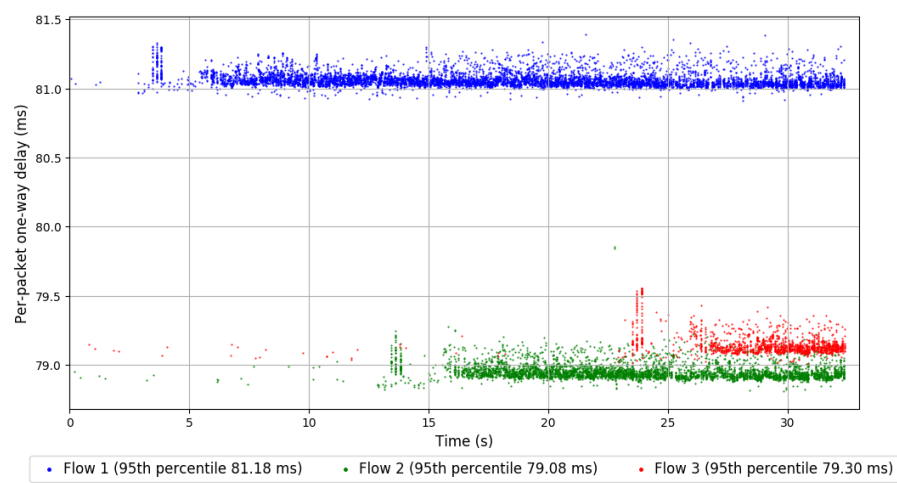
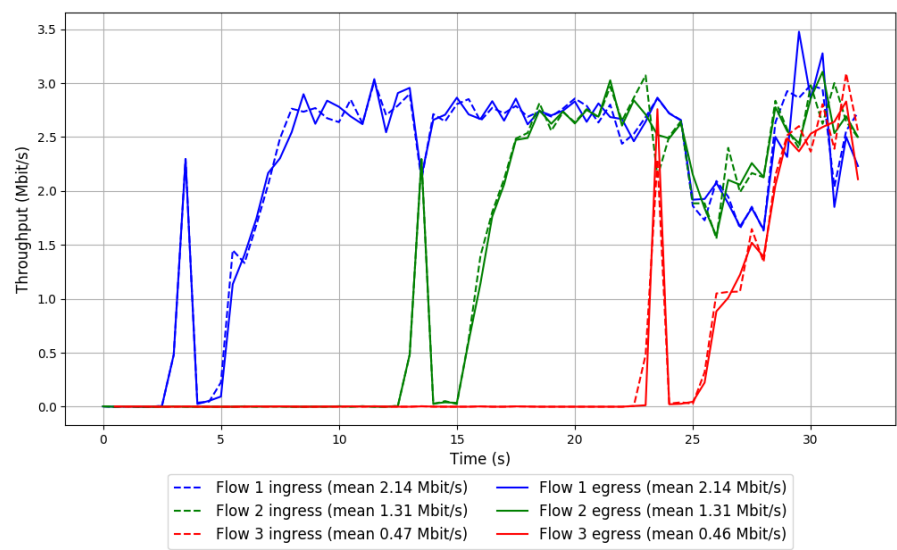
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 79.299 ms

Loss rate: 3.67%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

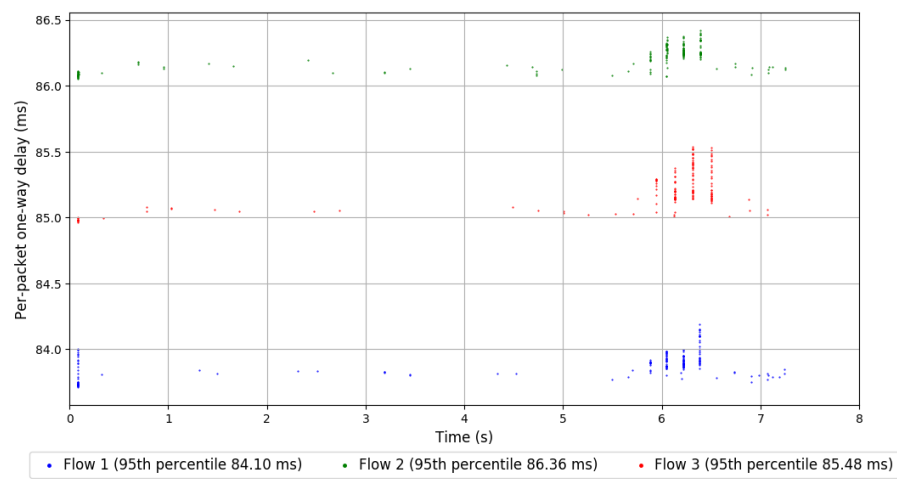
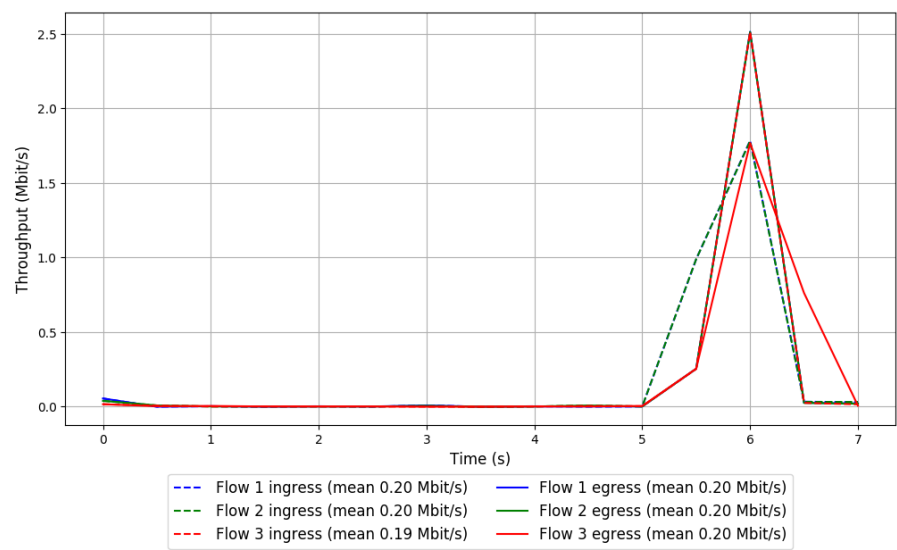
Start at: 2017-12-05 21:19:52

End at: 2017-12-05 21:20:22

Local clock offset: 0.066 ms

Remote clock offset: -2.179 ms

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-05 21:39:54

End at: 2017-12-05 21:40:24

Local clock offset: -0.192 ms

Remote clock offset: 1.373 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 81.367 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 79.305 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 81.443 ms

Loss rate: 0.50%

-- Flow 3:

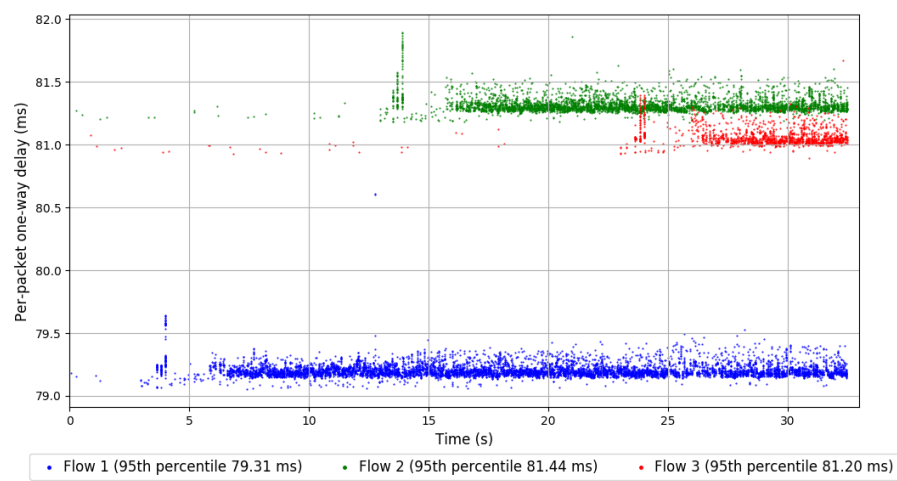
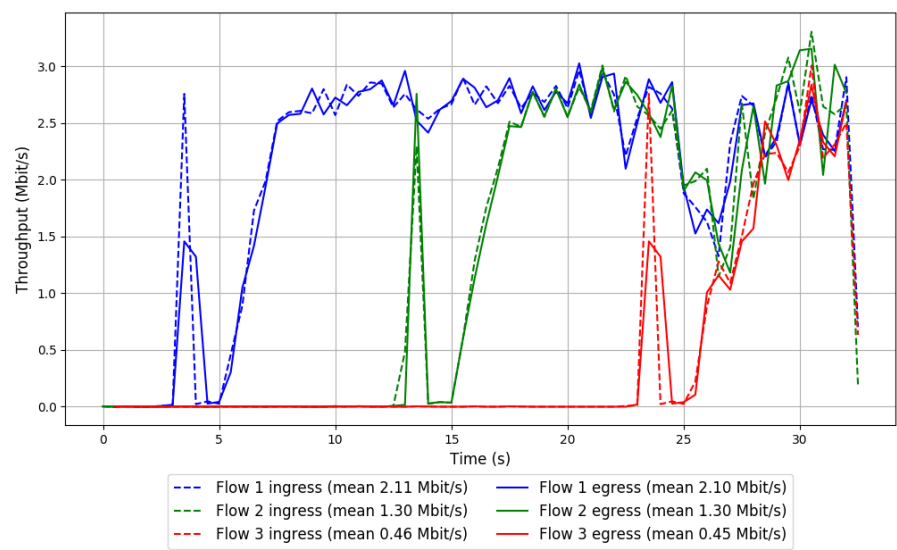
Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 81.205 ms

Loss rate: 2.94%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-05 22:00:05

End at: 2017-12-05 22:00:35

Local clock offset: -0.962 ms

Remote clock offset: 1.977 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 80.310 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 80.347 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 79.802 ms

Loss rate: 0.43%

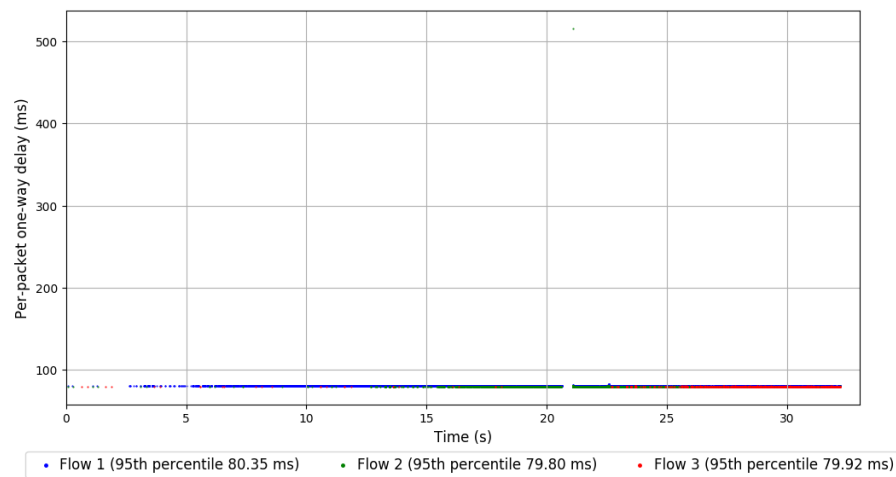
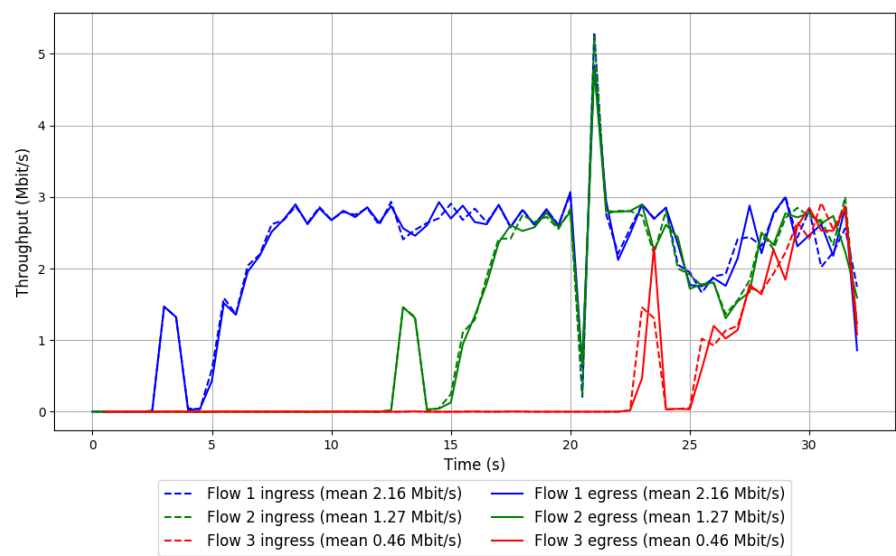
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 79.920 ms

Loss rate: 2.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-05 19:11:54

End at: 2017-12-05 19:12:24

Local clock offset: 1.505 ms

Remote clock offset: 3.154 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 81.543 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 4.69 Mbit/s

95th percentile per-packet one-way delay: 80.432 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 79.369 ms

Loss rate: 0.92%

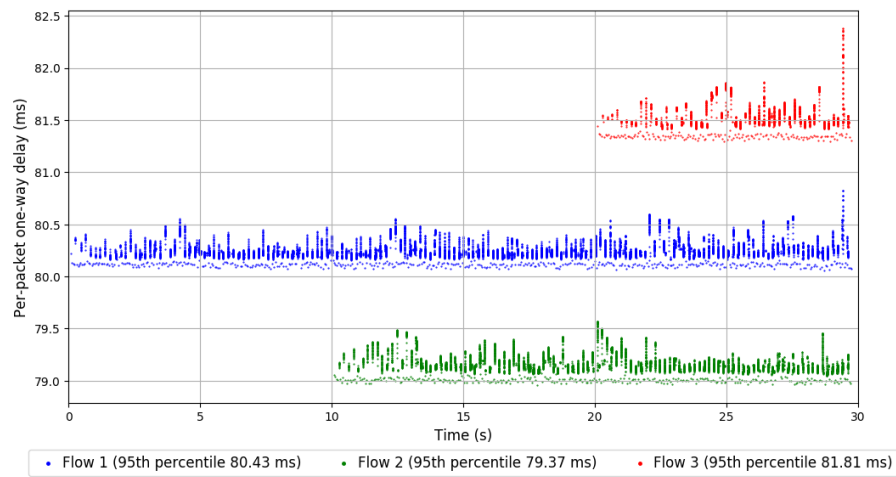
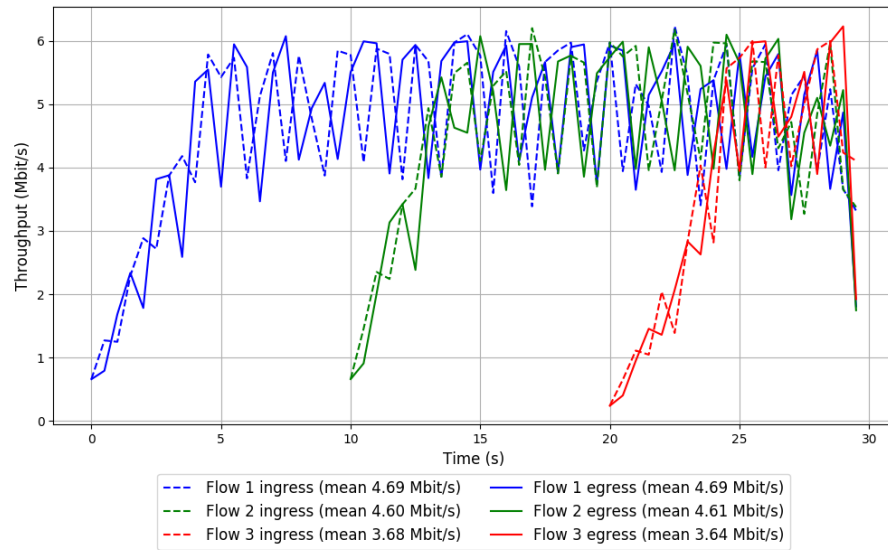
-- Flow 3:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 81.812 ms

Loss rate: 3.02%

## Run 1: Report of Sprout — Data Link

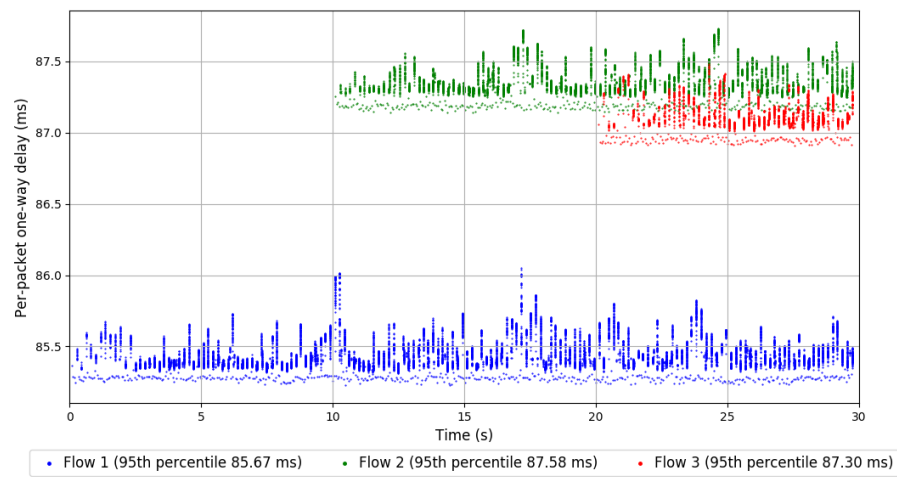
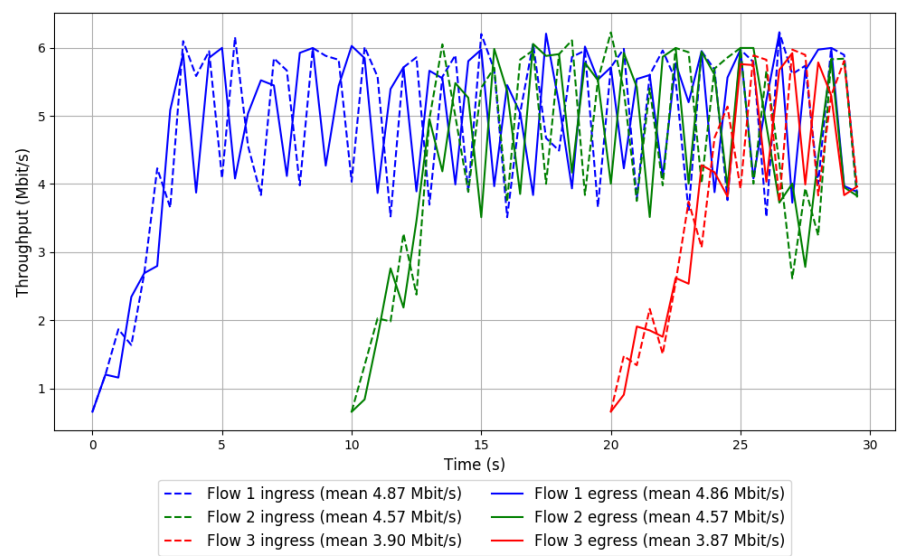


Run 2: Statistics of Sprout

Start at: 2017-12-05 19:32:06  
End at: 2017-12-05 19:32:36  
Local clock offset: 1.482 ms  
Remote clock offset: -2.312 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.14 Mbit/s  
95th percentile per-packet one-way delay: 87.493 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 4.86 Mbit/s  
95th percentile per-packet one-way delay: 85.671 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 4.57 Mbit/s  
95th percentile per-packet one-way delay: 87.578 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 3.87 Mbit/s  
95th percentile per-packet one-way delay: 87.303 ms  
Loss rate: 2.58%

Run 2: Report of Sprout — Data Link



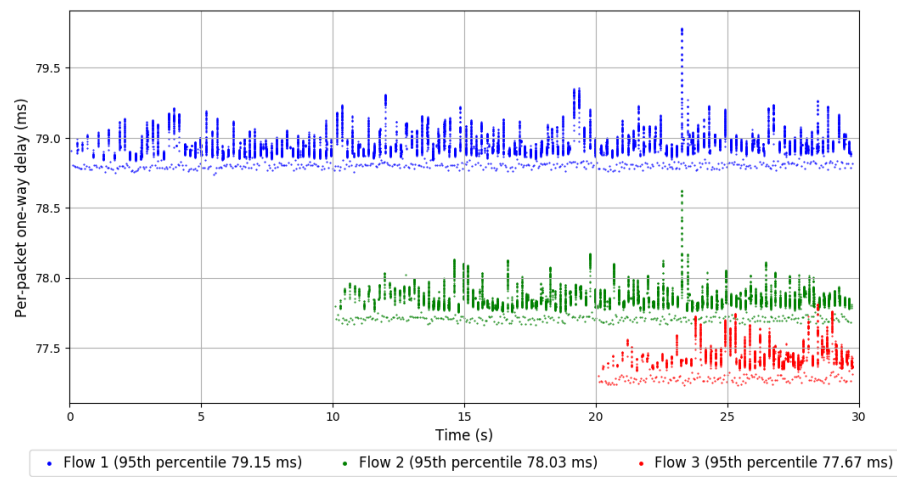
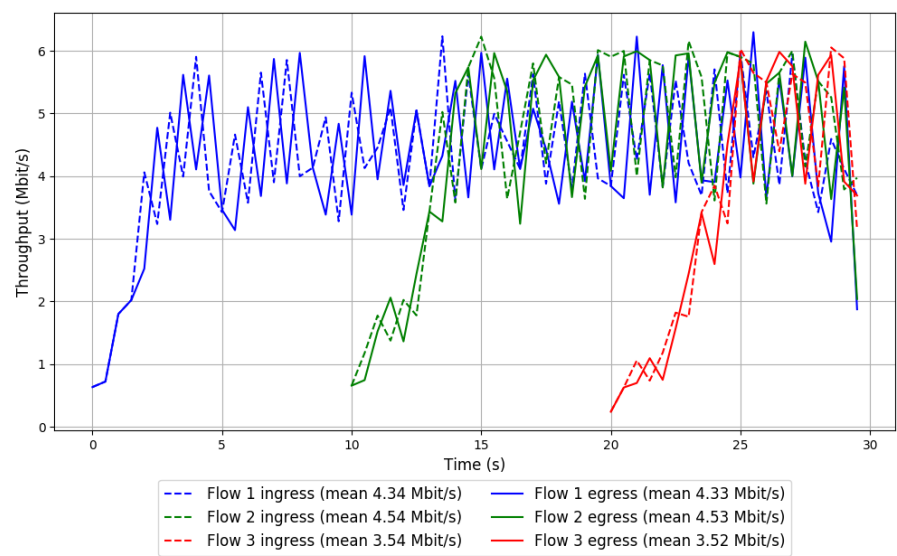
### Run 3: Statistics of Sprout

Start at: 2017-12-05 19:52:29  
End at: 2017-12-05 19:52:59  
Local clock offset: 1.463 ms  
Remote clock offset: 5.159 ms

```
# Below is generated by plot.py at 2017-12-06 02:02:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 79.097 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 79.153 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 78.030 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 77.675 ms
Loss rate: 2.24%
```



Run 3: Report of Sprout — Data Link

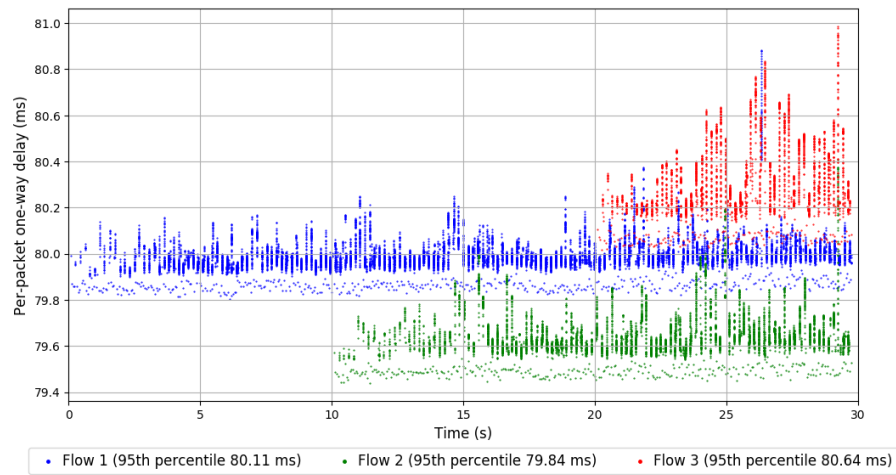
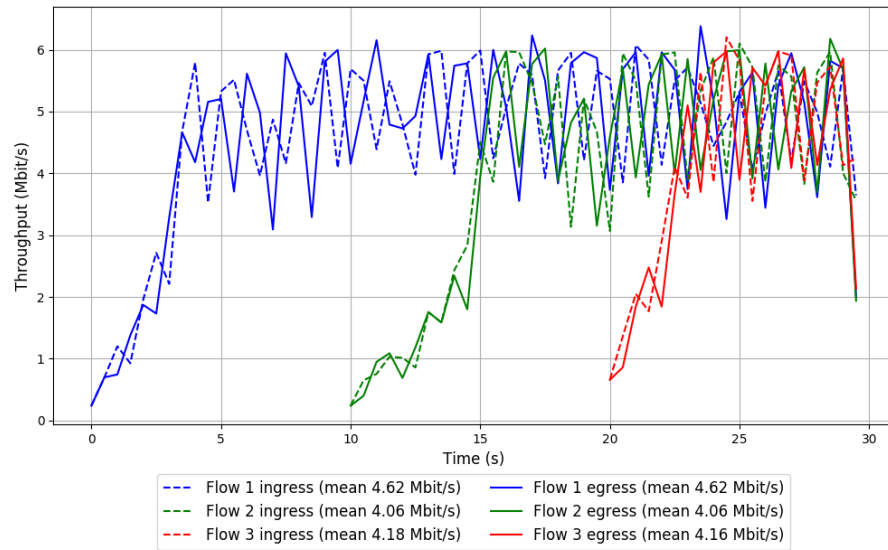


#### Run 4: Statistics of Sprout

Start at: 2017-12-05 20:12:36  
End at: 2017-12-05 20:13:06  
Local clock offset: 1.064 ms  
Remote clock offset: 5.481 ms

```
# Below is generated by plot.py at 2017-12-06 02:02:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 80.394 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 80.110 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 79.845 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 80.642 ms
Loss rate: 2.57%
```

#### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-05 20:32:46

End at: 2017-12-05 20:33:16

Local clock offset: 0.763 ms

Remote clock offset: 5.419 ms

# Below is generated by plot.py at 2017-12-06 02:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 80.018 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 79.895 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 78.368 ms

Loss rate: 1.26%

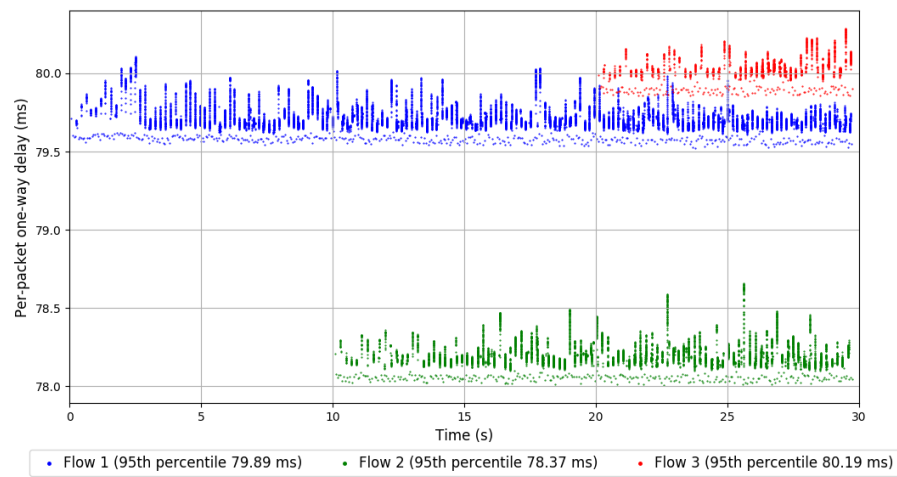
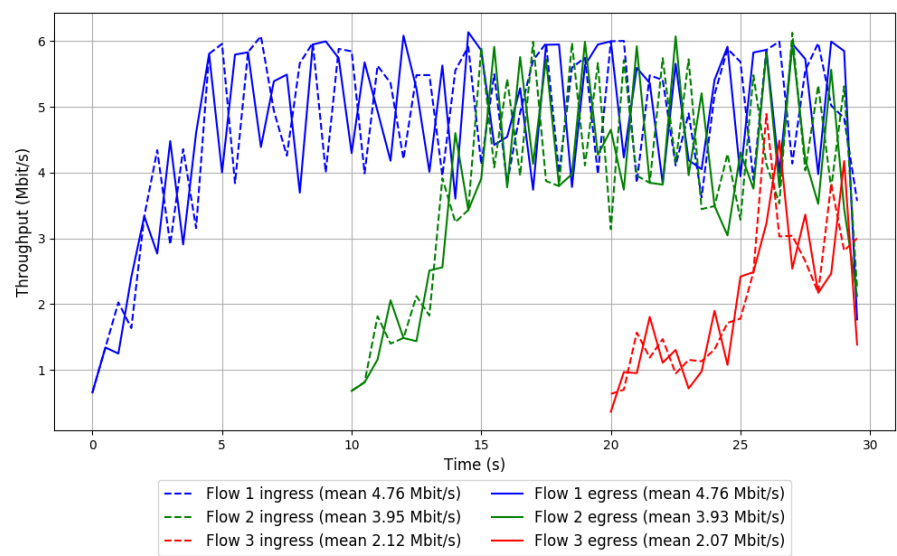
-- Flow 3:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 80.193 ms

Loss rate: 3.90%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

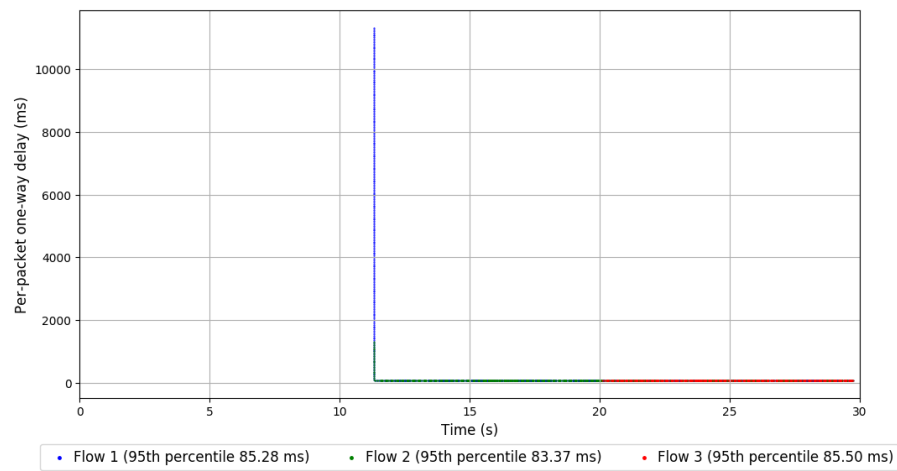
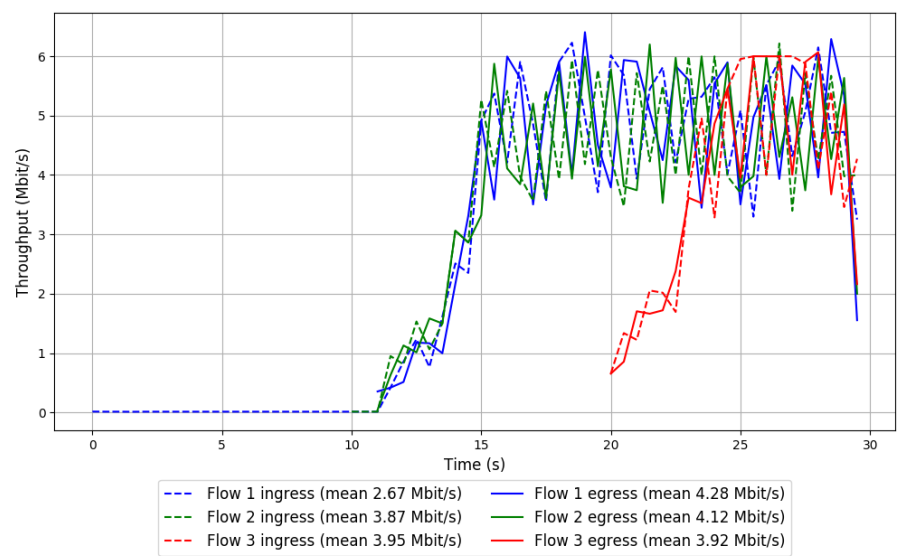
Start at: 2017-12-05 20:52:58

End at: 2017-12-05 20:53:28

Local clock offset: 0.297 ms

Remote clock offset: -0.195 ms

Run 6: Report of Sprout — Data Link



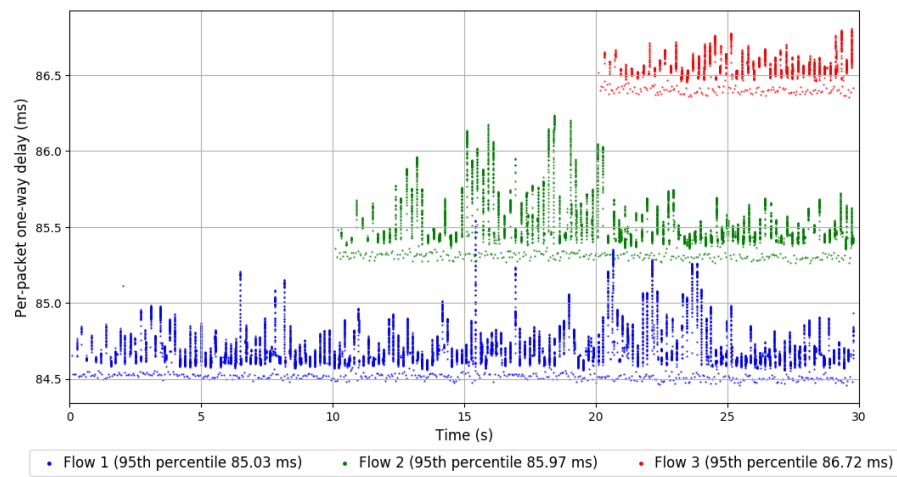
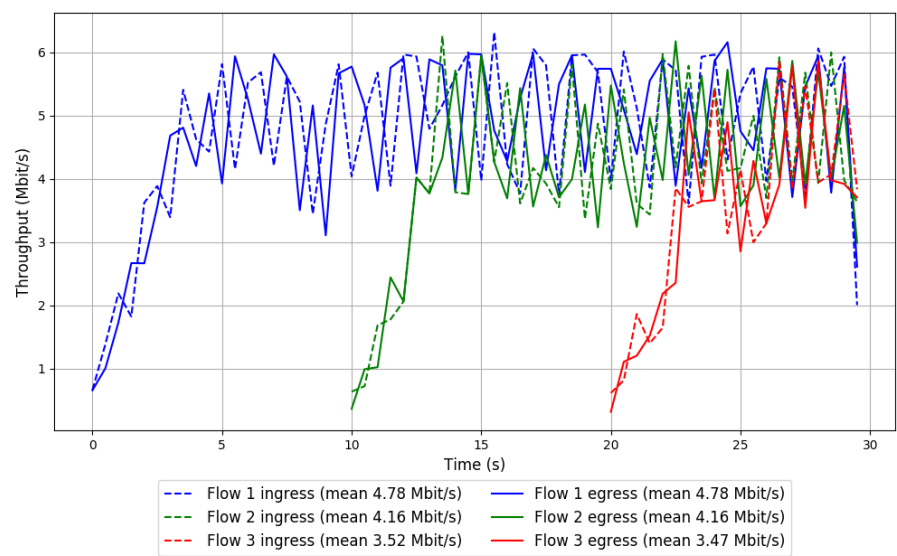
Run 7: Statistics of Sprout

Start at: 2017-12-05 21:13:16  
End at: 2017-12-05 21:13:46  
Local clock offset: 0.038 ms  
Remote clock offset: -1.749 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.66 Mbit/s  
95th percentile per-packet one-way delay: 86.570 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 4.78 Mbit/s  
95th percentile per-packet one-way delay: 85.027 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 85.966 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 3.47 Mbit/s  
95th percentile per-packet one-way delay: 86.721 ms  
Loss rate: 2.83%



Run 7: Report of Sprout — Data Link

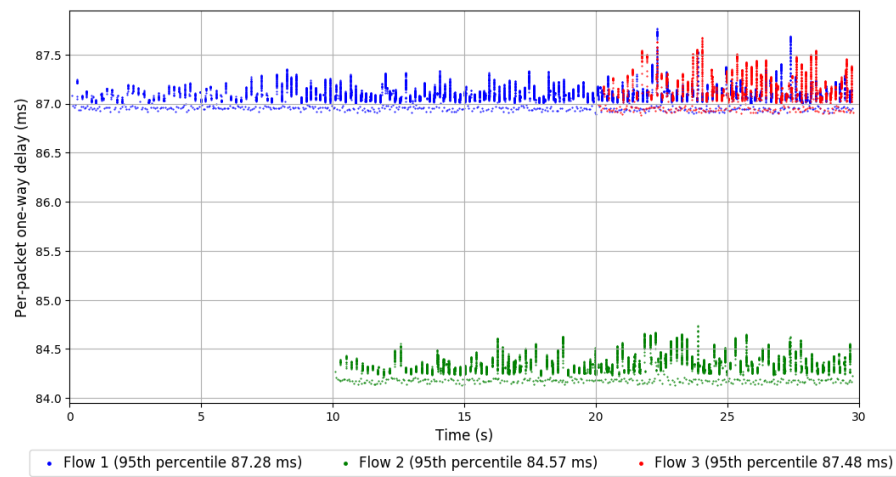
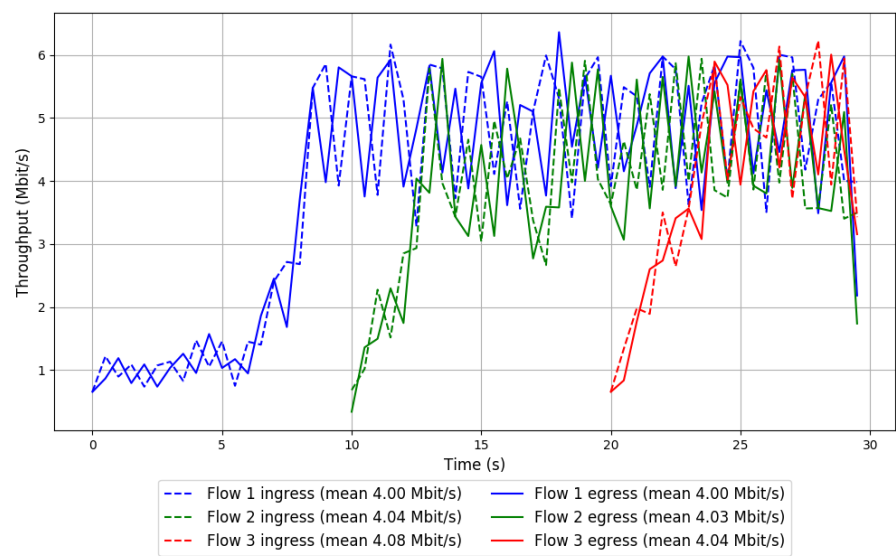


Run 8: Statistics of Sprout

Start at: 2017-12-05 21:33:07  
End at: 2017-12-05 21:33:37  
Local clock offset: -0.068 ms  
Remote clock offset: -3.02 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 87.315 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 4.00 Mbit/s  
95th percentile per-packet one-way delay: 87.278 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 84.573 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 4.04 Mbit/s  
95th percentile per-packet one-way delay: 87.485 ms  
Loss rate: 2.23%

Run 8: Report of Sprout — Data Link

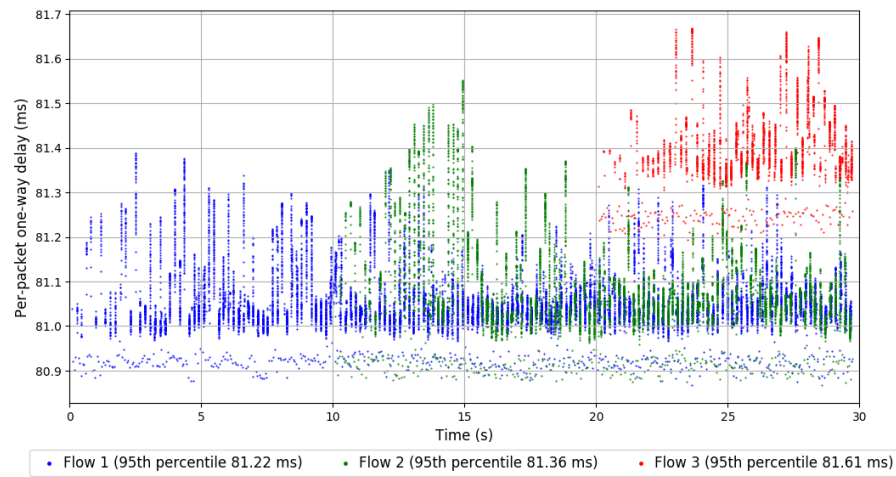
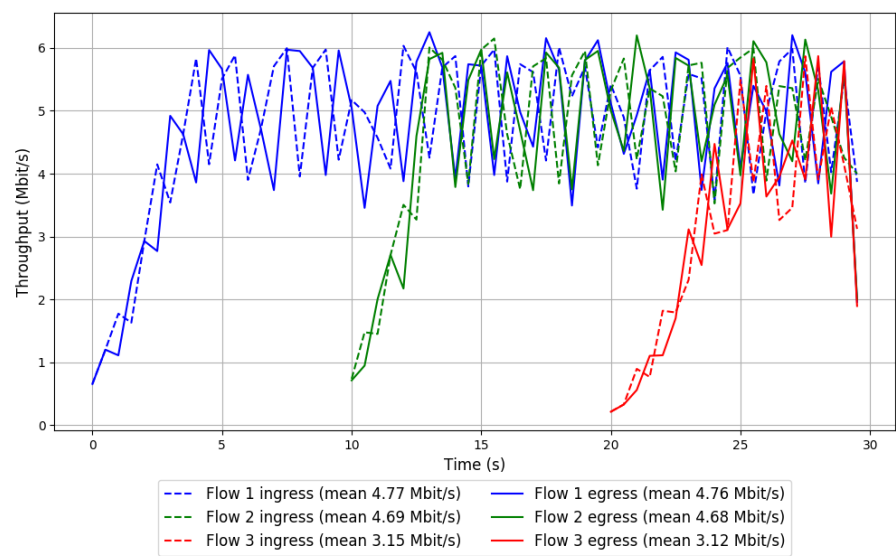


Run 9: Statistics of Sprout

Start at: 2017-12-05 21:53:15  
End at: 2017-12-05 21:53:45  
Local clock offset: -0.747 ms  
Remote clock offset: 0.782 ms

# Below is generated by plot.py at 2017-12-06 02:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.87 Mbit/s  
95th percentile per-packet one-way delay: 81.416 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 4.76 Mbit/s  
95th percentile per-packet one-way delay: 81.224 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 4.68 Mbit/s  
95th percentile per-packet one-way delay: 81.361 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 3.12 Mbit/s  
95th percentile per-packet one-way delay: 81.605 ms  
Loss rate: 2.65%

Run 9: Report of Sprout — Data Link

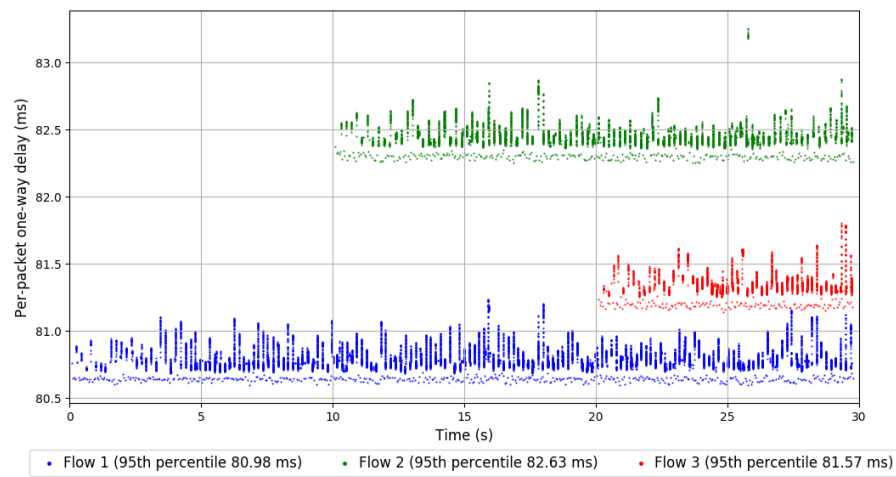
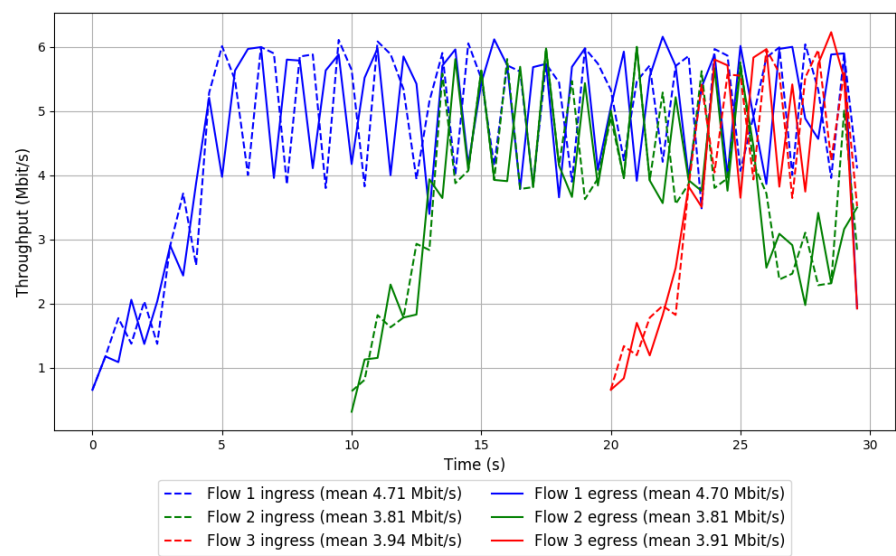


Run 10: Statistics of Sprout

Start at: 2017-12-05 22:13:33  
End at: 2017-12-05 22:14:03  
Local clock offset: -1.504 ms  
Remote clock offset: 0.613 ms

```
# Below is generated by plot.py at 2017-12-06 02:02:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 82.527 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 80.984 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 82.626 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 81.571 ms
Loss rate: 2.20%
```

Run 10: Report of Sprout — Data Link



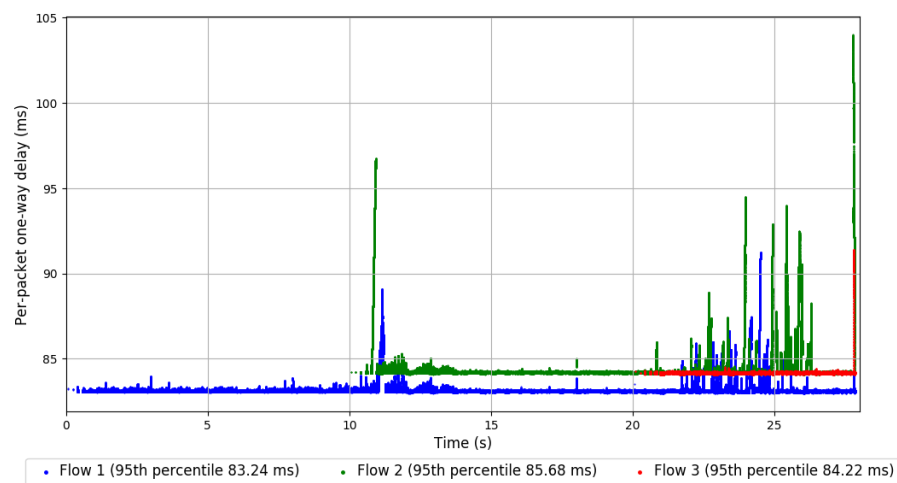
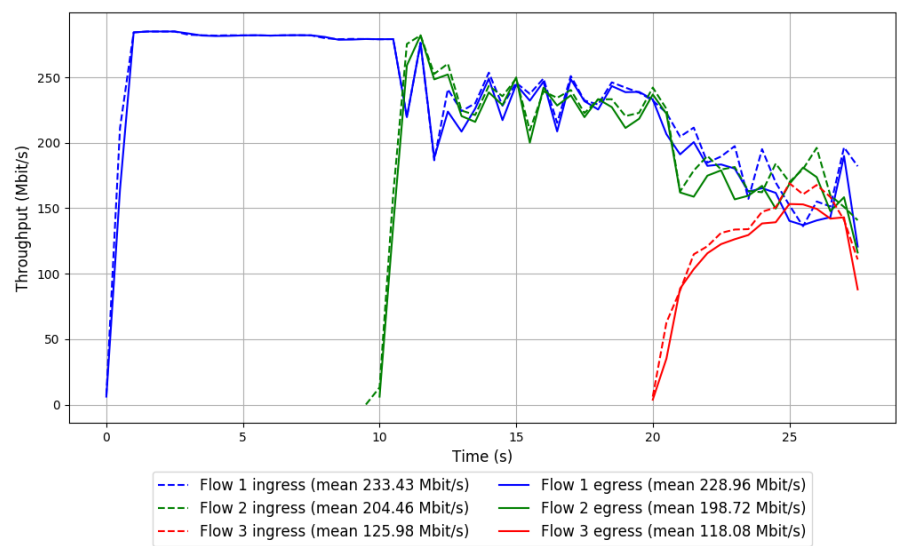
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 19:07:26
End at: 2017-12-05 19:07:56
Local clock offset: 1.475 ms
Remote clock offset: -1.308 ms

# Below is generated by plot.py at 2017-12-06 02:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.21 Mbit/s
95th percentile per-packet one-way delay: 84.250 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 228.96 Mbit/s
95th percentile per-packet one-way delay: 83.240 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 198.72 Mbit/s
95th percentile per-packet one-way delay: 85.678 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 118.08 Mbit/s
95th percentile per-packet one-way delay: 84.223 ms
Loss rate: 8.25%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 19:27:28

End at: 2017-12-05 19:27:58

Local clock offset: 1.541 ms

Remote clock offset: 2.306 ms

# Below is generated by plot.py at 2017-12-06 02:10:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 385.84 Mbit/s

95th percentile per-packet one-way delay: 81.681 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 217.38 Mbit/s

95th percentile per-packet one-way delay: 81.679 ms

Loss rate: 2.34%

-- Flow 2:

Average throughput: 190.00 Mbit/s

95th percentile per-packet one-way delay: 81.703 ms

Loss rate: 4.34%

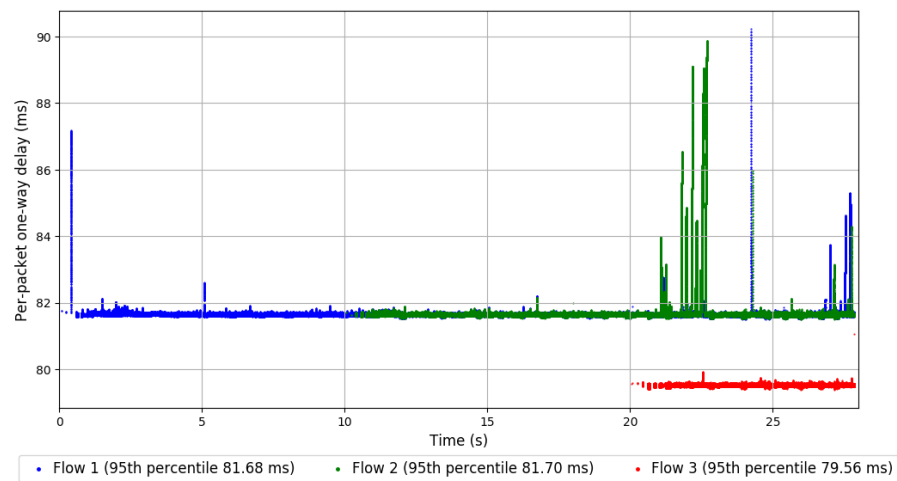
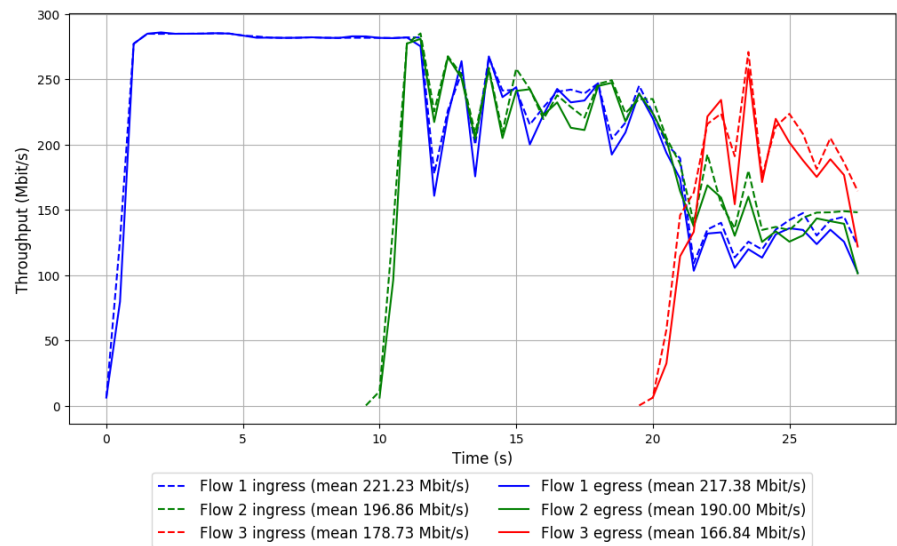
-- Flow 3:

Average throughput: 166.84 Mbit/s

95th percentile per-packet one-way delay: 79.557 ms

Loss rate: 8.33%

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

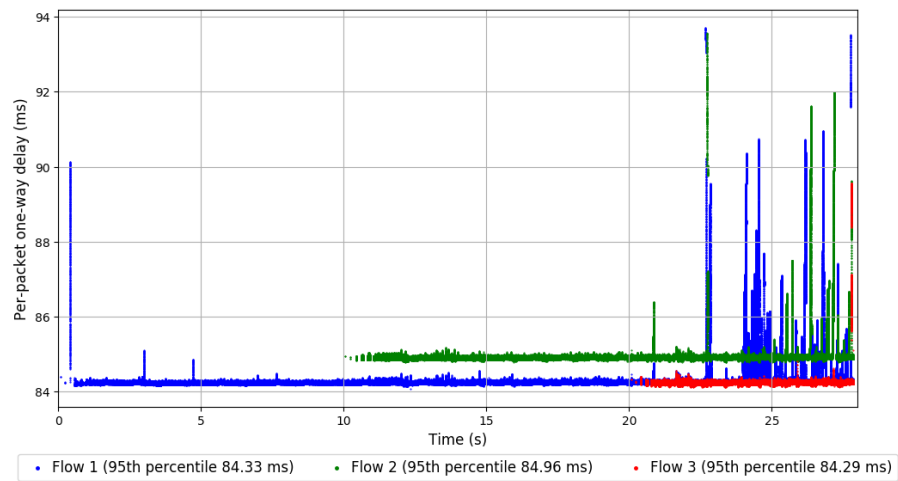
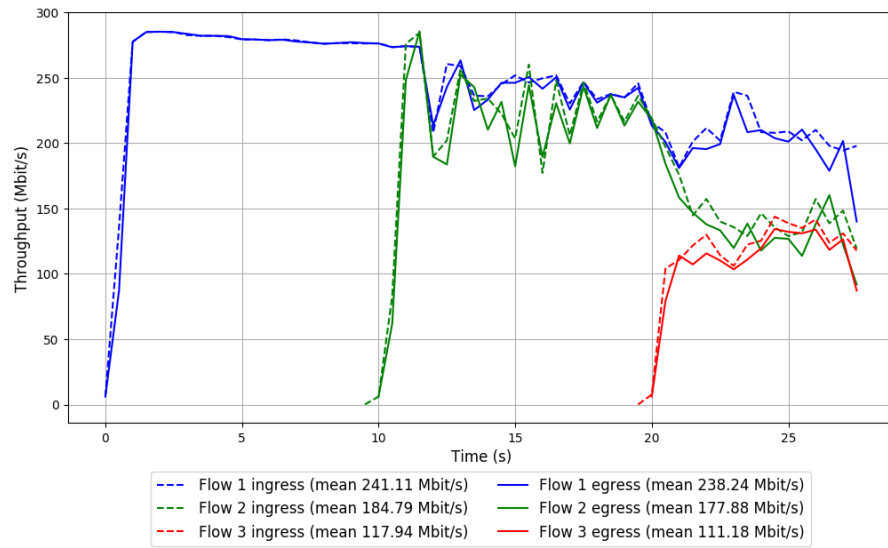


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 19:47:52  
End at: 2017-12-05 19:48:22  
Local clock offset: 1.546 ms  
Remote clock offset: -1.588 ms

# Below is generated by plot.py at 2017-12-06 02:10:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 383.32 Mbit/s  
95th percentile per-packet one-way delay: 84.945 ms  
Loss rate: 3.15%  
-- Flow 1:  
Average throughput: 238.24 Mbit/s  
95th percentile per-packet one-way delay: 84.334 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 177.88 Mbit/s  
95th percentile per-packet one-way delay: 84.964 ms  
Loss rate: 4.64%  
-- Flow 3:  
Average throughput: 111.18 Mbit/s  
95th percentile per-packet one-way delay: 84.292 ms  
Loss rate: 7.70%

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

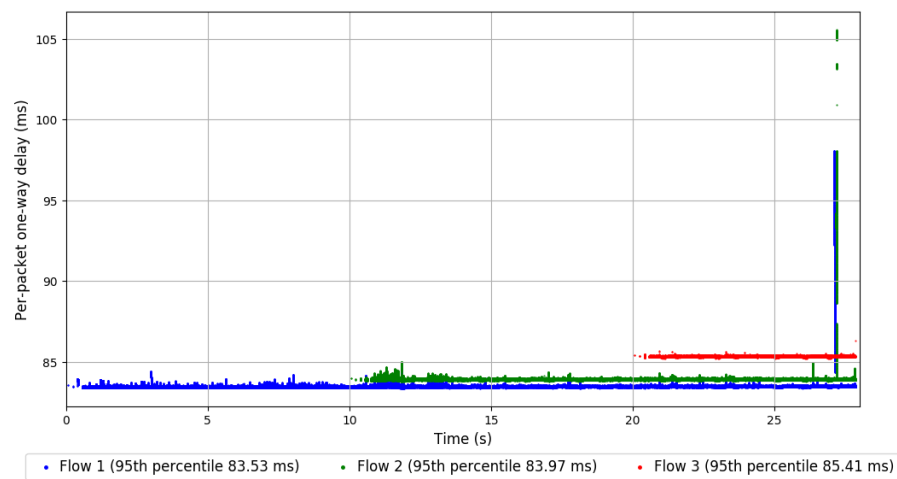
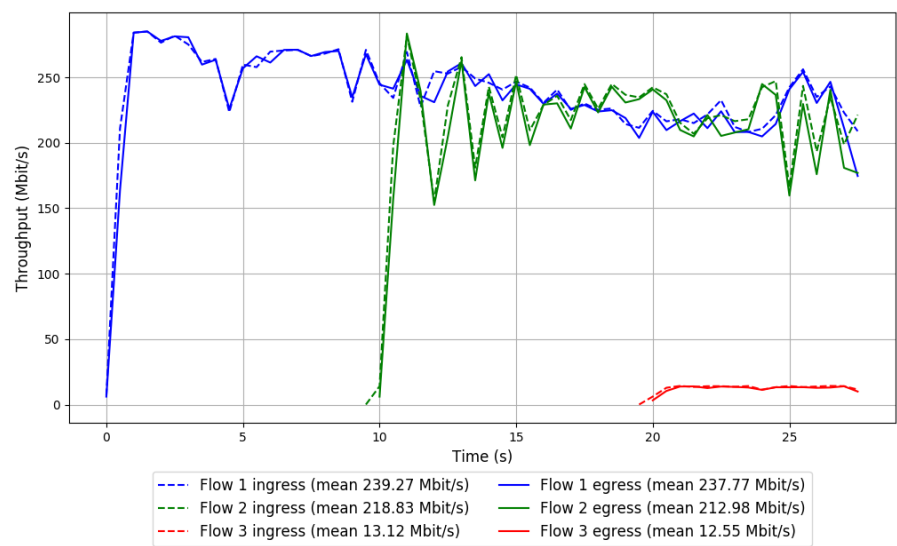


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 20:08:07  
End at: 2017-12-05 20:08:37  
Local clock offset: 1.15 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2017-12-06 02:10:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 377.71 Mbit/s  
95th percentile per-packet one-way delay: 83.958 ms  
Loss rate: 2.14%  
-- Flow 1:  
Average throughput: 237.77 Mbit/s  
95th percentile per-packet one-way delay: 83.525 ms  
Loss rate: 1.22%  
-- Flow 2:  
Average throughput: 212.98 Mbit/s  
95th percentile per-packet one-way delay: 83.971 ms  
Loss rate: 3.58%  
-- Flow 3:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 85.412 ms  
Loss rate: 6.40%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 20:28:16

End at: 2017-12-05 20:28:46

Local clock offset: 0.861 ms

Remote clock offset: 6.337 ms

# Below is generated by plot.py at 2017-12-06 02:10:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 376.66 Mbit/s

95th percentile per-packet one-way delay: 79.087 ms

Loss rate: 3.94%

-- Flow 1:

Average throughput: 215.92 Mbit/s

95th percentile per-packet one-way delay: 77.605 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 184.65 Mbit/s

95th percentile per-packet one-way delay: 81.095 ms

Loss rate: 4.76%

-- Flow 3:

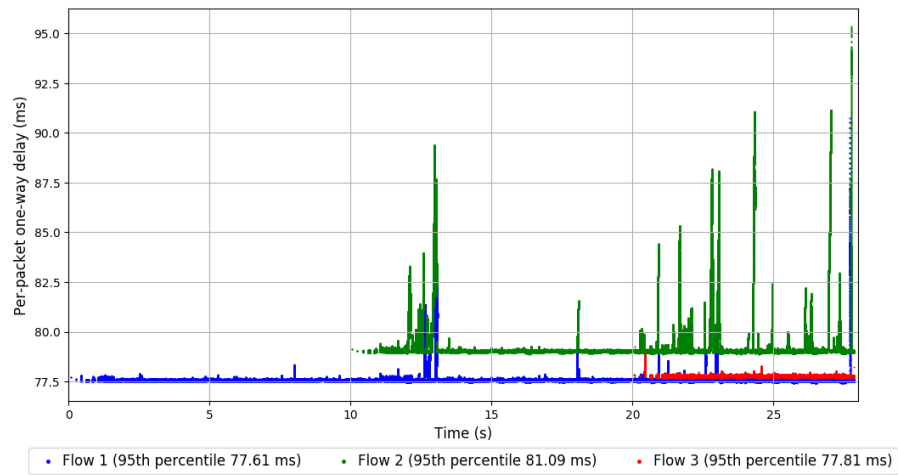
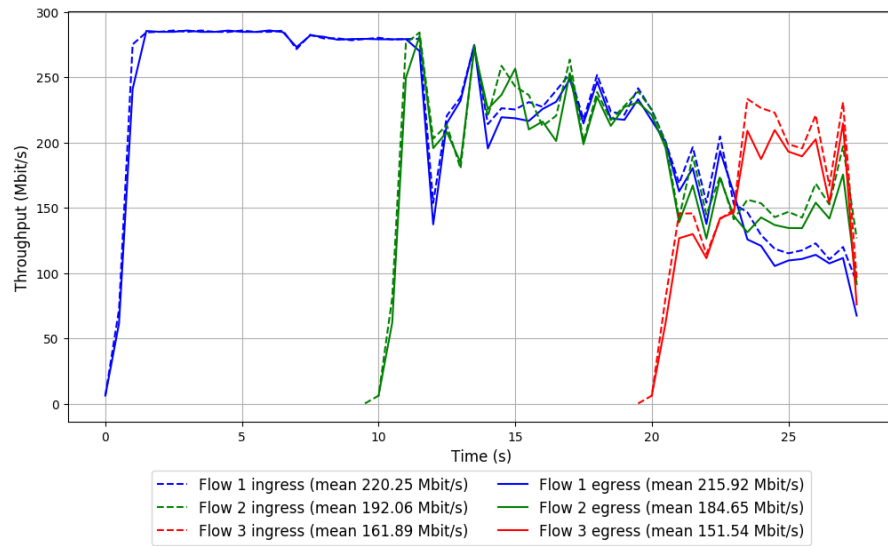
Average throughput: 151.54 Mbit/s

95th percentile per-packet one-way delay: 77.811 ms

Loss rate: 8.36%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 20:48:20

End at: 2017-12-05 20:48:50

Local clock offset: 0.419 ms

Remote clock offset: 4.565 ms

# Below is generated by plot.py at 2017-12-06 02:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 376.42 Mbit/s

95th percentile per-packet one-way delay: 81.733 ms

Loss rate: 3.65%

-- Flow 1:

Average throughput: 212.90 Mbit/s

95th percentile per-packet one-way delay: 81.109 ms

Loss rate: 2.45%

-- Flow 2:

Average throughput: 210.93 Mbit/s

95th percentile per-packet one-way delay: 78.835 ms

Loss rate: 4.14%

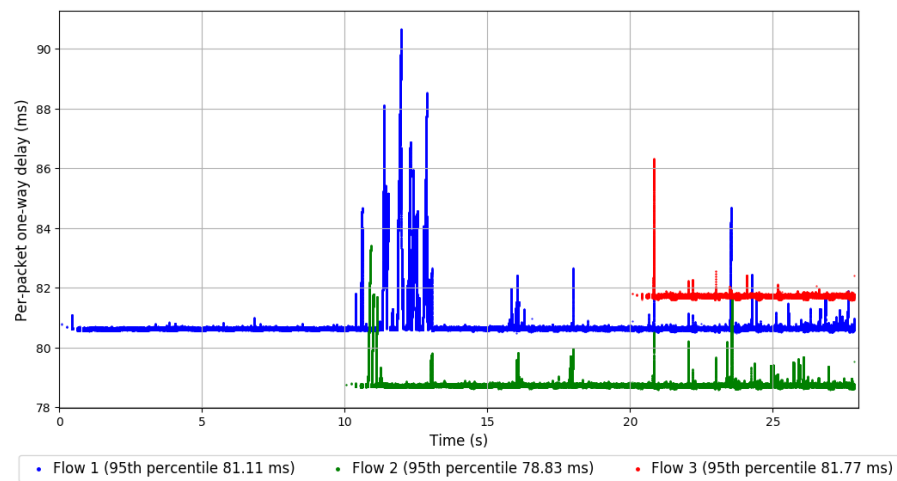
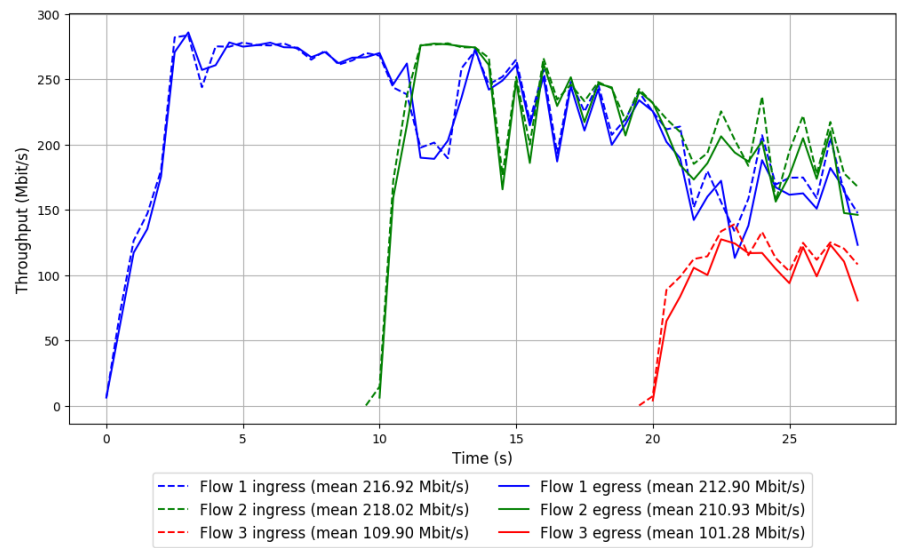
-- Flow 3:

Average throughput: 101.28 Mbit/s

95th percentile per-packet one-way delay: 81.770 ms

Loss rate: 9.81%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 21:08:45

End at: 2017-12-05 21:09:15

Local clock offset: 0.108 ms

Remote clock offset: 3.234 ms

# Below is generated by plot.py at 2017-12-06 02:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 361.30 Mbit/s

95th percentile per-packet one-way delay: 80.677 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 189.54 Mbit/s

95th percentile per-packet one-way delay: 79.991 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 205.57 Mbit/s

95th percentile per-packet one-way delay: 81.487 ms

Loss rate: 3.58%

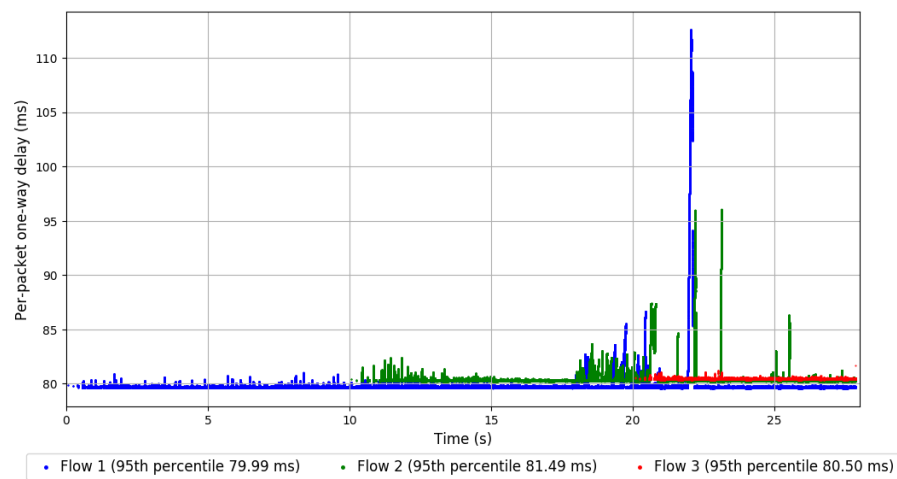
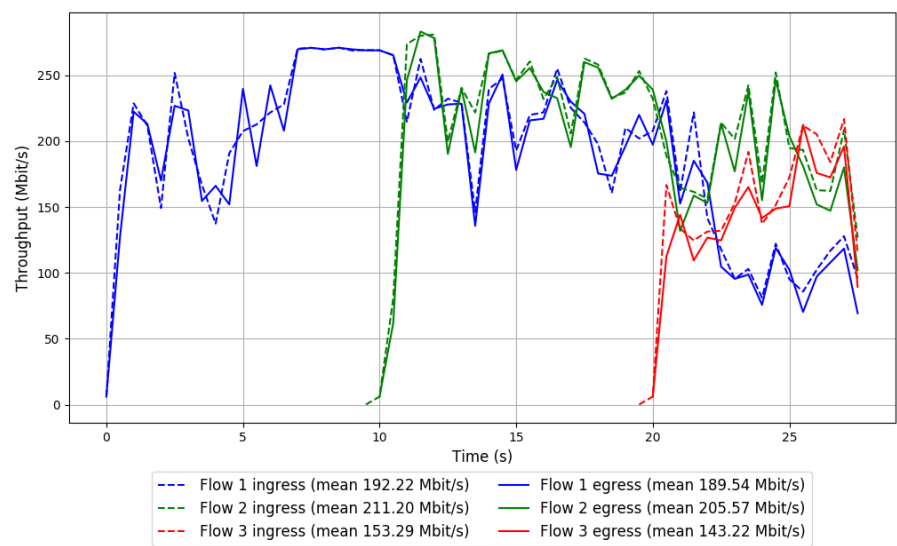
-- Flow 3:

Average throughput: 143.22 Mbit/s

95th percentile per-packet one-way delay: 80.504 ms

Loss rate: 8.54%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-05 21:28:39

End at: 2017-12-05 21:29:09

Local clock offset: -0.016 ms

Remote clock offset: 2.897 ms

# Below is generated by plot.py at 2017-12-06 02:11:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 389.13 Mbit/s

95th percentile per-packet one-way delay: 79.972 ms

Loss rate: 3.19%

-- Flow 1:

Average throughput: 235.36 Mbit/s

95th percentile per-packet one-way delay: 79.979 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 170.82 Mbit/s

95th percentile per-packet one-way delay: 78.132 ms

Loss rate: 4.39%

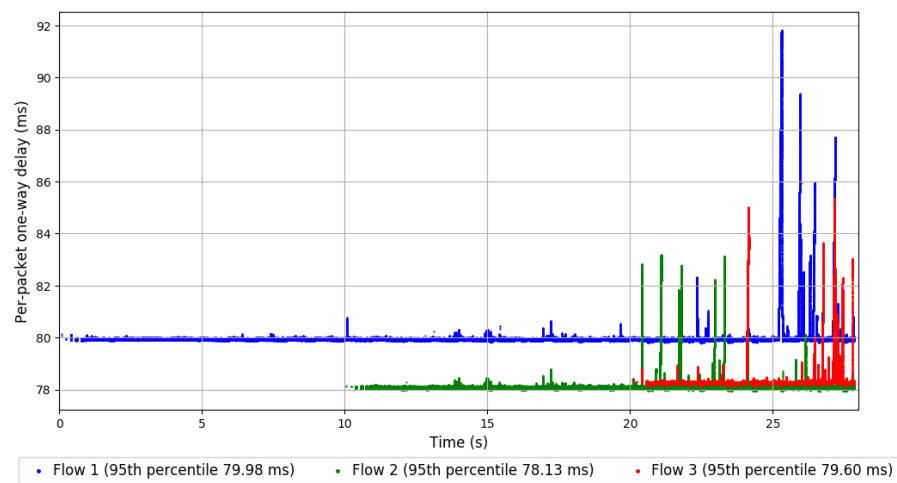
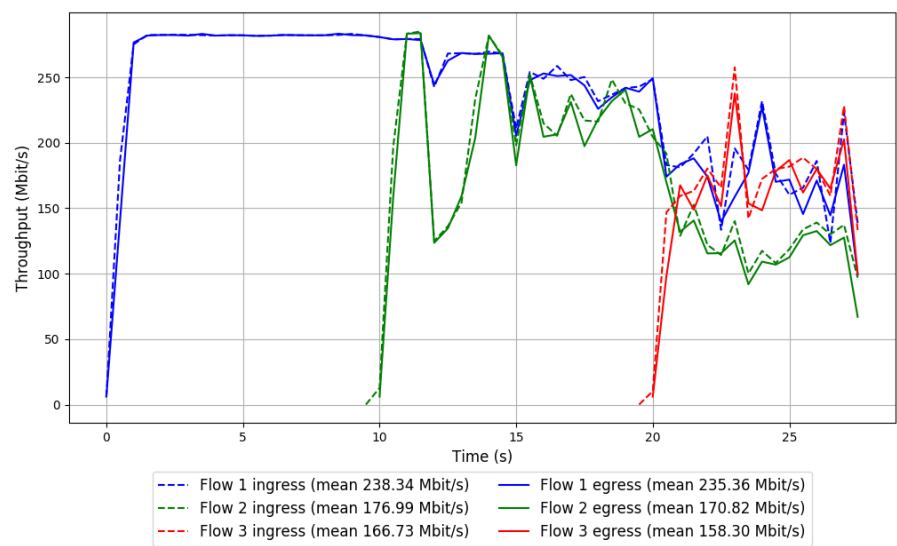
-- Flow 3:

Average throughput: 158.30 Mbit/s

95th percentile per-packet one-way delay: 79.602 ms

Loss rate: 7.07%

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



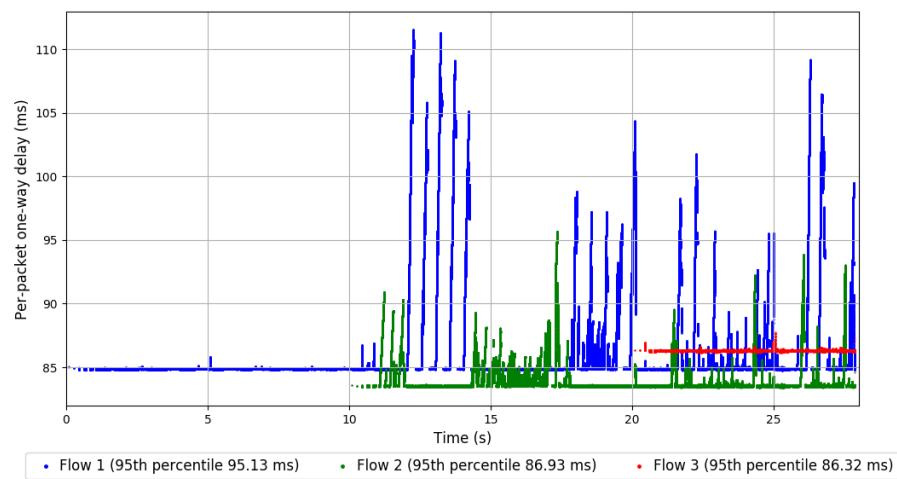
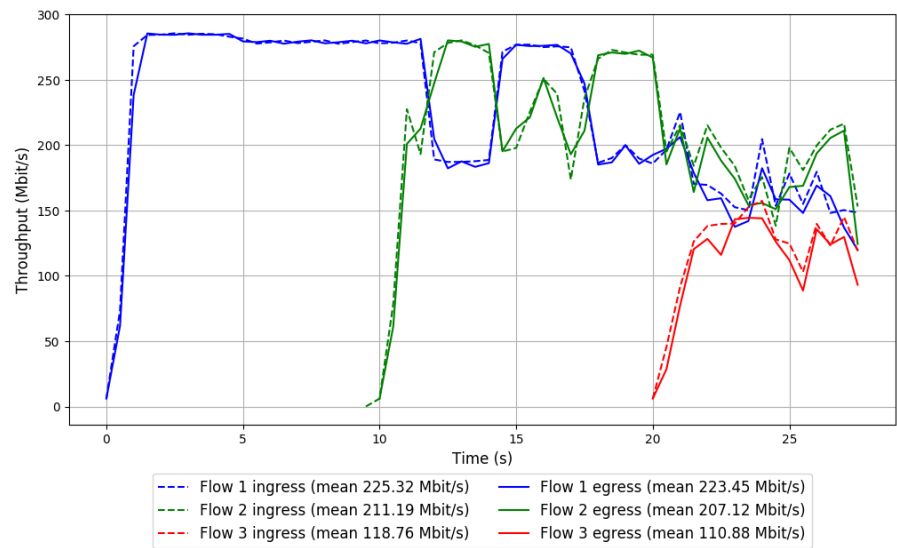
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-05 21:48:41  
End at: 2017-12-05 21:49:12  
Local clock offset: -0.52 ms  
Remote clock offset: -2.906 ms

# Below is generated by plot.py at 2017-12-06 02:19:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 386.95 Mbit/s  
95th percentile per-packet one-way delay: 90.917 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 223.45 Mbit/s  
95th percentile per-packet one-way delay: 95.130 ms  
Loss rate: 1.42%  
-- Flow 2:  
Average throughput: 207.12 Mbit/s  
95th percentile per-packet one-way delay: 86.928 ms  
Loss rate: 2.82%  
-- Flow 3:  
Average throughput: 110.88 Mbit/s  
95th percentile per-packet one-way delay: 86.324 ms  
Loss rate: 8.63%



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

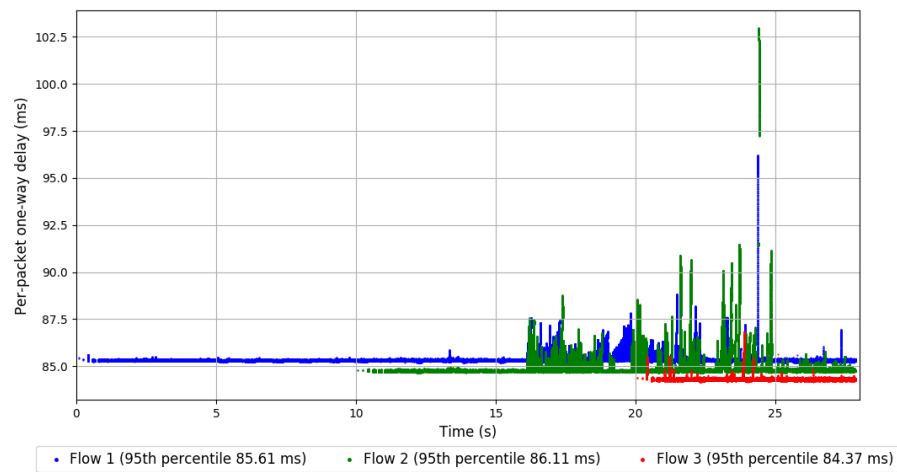
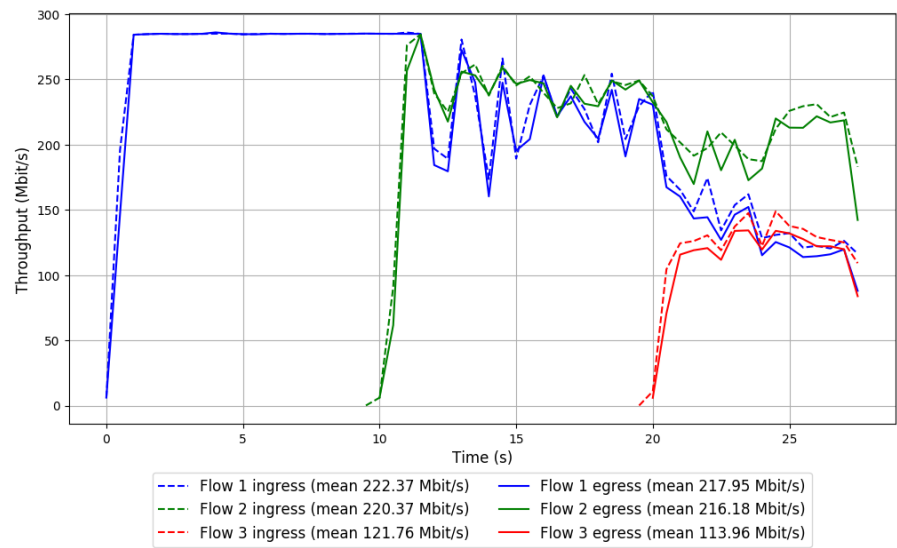


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-05 22:09:02  
End at: 2017-12-05 22:09:32  
Local clock offset: -1.278 ms  
Remote clock offset: -3.249 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.39 Mbit/s  
95th percentile per-packet one-way delay: 85.683 ms  
Loss rate: 3.17%  
-- Flow 1:  
Average throughput: 217.95 Mbit/s  
95th percentile per-packet one-way delay: 85.606 ms  
Loss rate: 2.58%  
-- Flow 2:  
Average throughput: 216.18 Mbit/s  
95th percentile per-packet one-way delay: 86.105 ms  
Loss rate: 2.82%  
-- Flow 3:  
Average throughput: 113.96 Mbit/s  
95th percentile per-packet one-way delay: 84.368 ms  
Loss rate: 8.38%

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

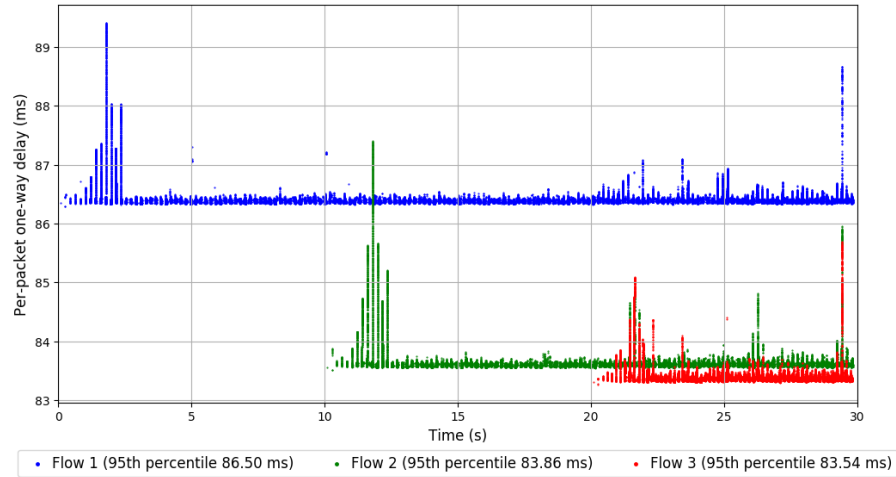
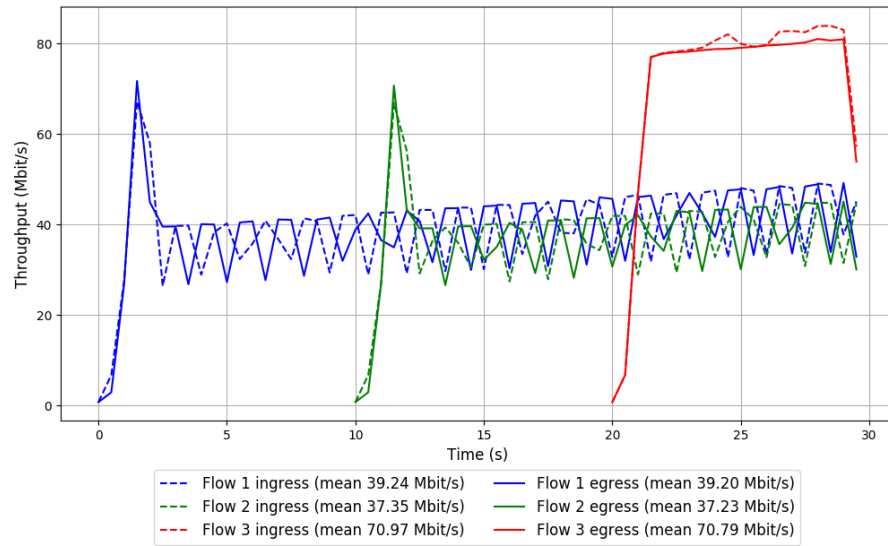


Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 19:10:36  
End at: 2017-12-05 19:11:06  
Local clock offset: 1.55 ms  
Remote clock offset: -1.305 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.01 Mbit/s  
95th percentile per-packet one-way delay: 86.432 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 39.20 Mbit/s  
95th percentile per-packet one-way delay: 86.502 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 37.23 Mbit/s  
95th percentile per-packet one-way delay: 83.860 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 70.79 Mbit/s  
95th percentile per-packet one-way delay: 83.542 ms  
Loss rate: 1.93%

# Run 1: Report of TCP Vegas — Data Link

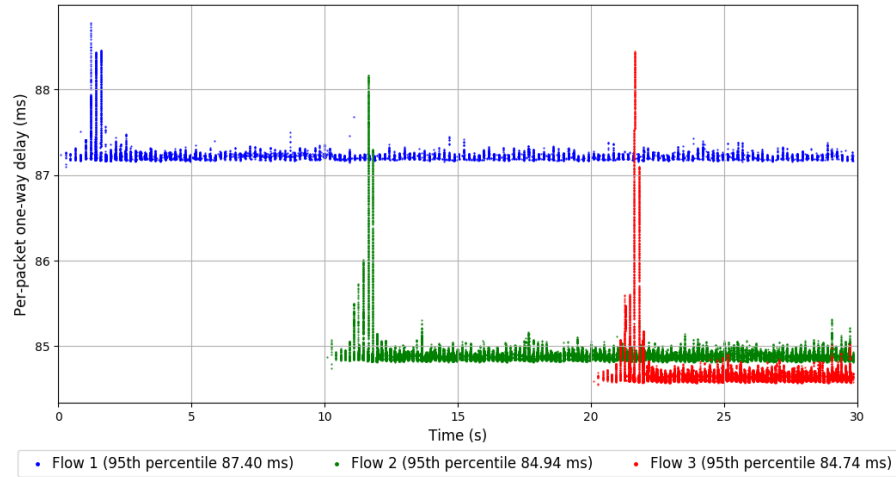
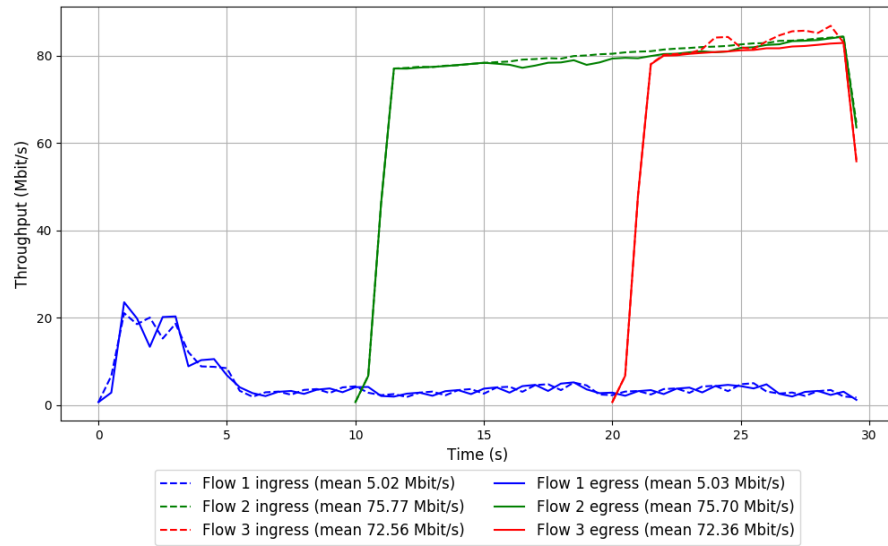


Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 19:30:47  
End at: 2017-12-05 19:31:17  
Local clock offset: 1.561 ms  
Remote clock offset: -2.578 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.97 Mbit/s  
95th percentile per-packet one-way delay: 87.198 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 5.03 Mbit/s  
95th percentile per-packet one-way delay: 87.404 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 75.70 Mbit/s  
95th percentile per-packet one-way delay: 84.937 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 72.36 Mbit/s  
95th percentile per-packet one-way delay: 84.744 ms  
Loss rate: 1.93%

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



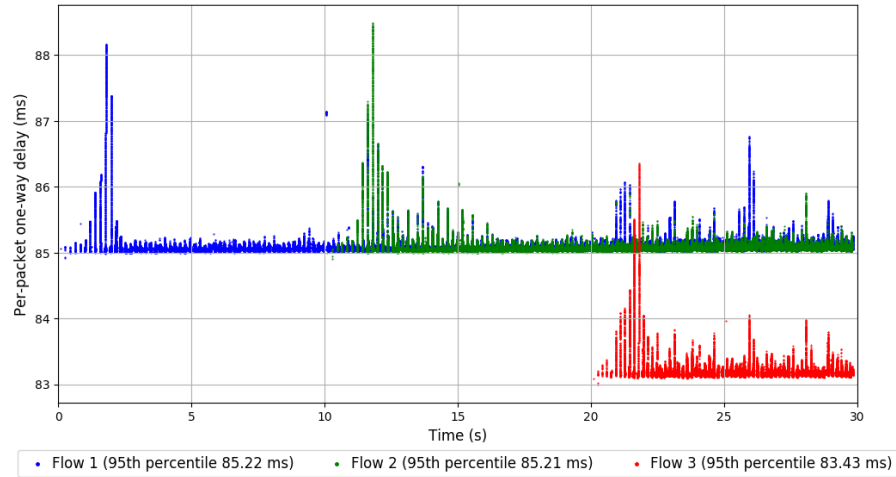
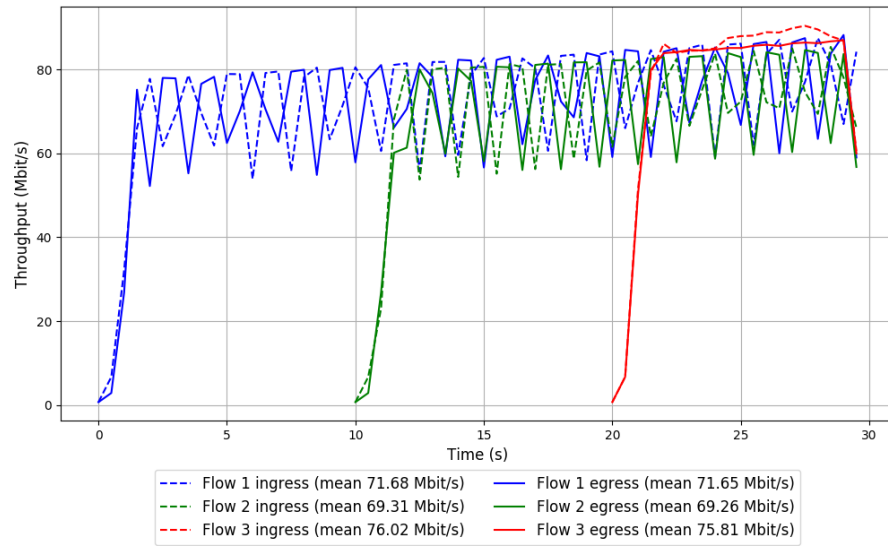
Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 19:51:07  
End at: 2017-12-05 19:51:37  
Local clock offset: 1.444 ms  
Remote clock offset: -0.555 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 142.40 Mbit/s  
95th percentile per-packet one-way delay: 85.189 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 71.65 Mbit/s  
95th percentile per-packet one-way delay: 85.216 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 69.26 Mbit/s  
95th percentile per-packet one-way delay: 85.210 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 75.81 Mbit/s  
95th percentile per-packet one-way delay: 83.431 ms  
Loss rate: 1.93%



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

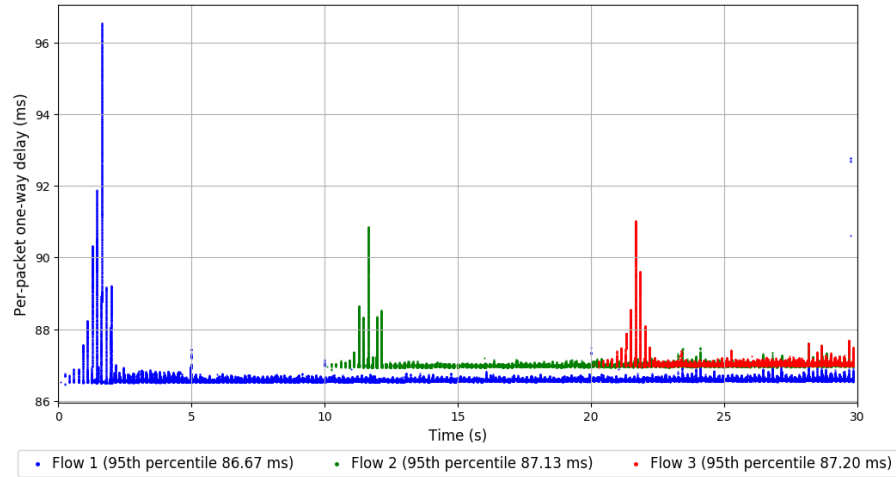
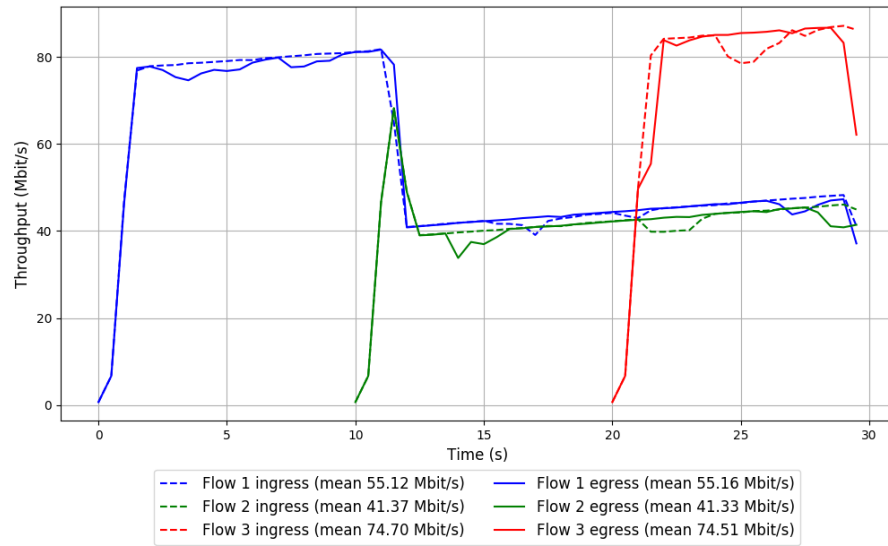


Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 20:11:17  
End at: 2017-12-05 20:11:47  
Local clock offset: 1.165 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 106.96 Mbit/s  
95th percentile per-packet one-way delay: 87.085 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 55.16 Mbit/s  
95th percentile per-packet one-way delay: 86.670 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 41.33 Mbit/s  
95th percentile per-packet one-way delay: 87.131 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 74.51 Mbit/s  
95th percentile per-packet one-way delay: 87.198 ms  
Loss rate: 1.97%

# Run 4: Report of TCP Vegas — Data Link

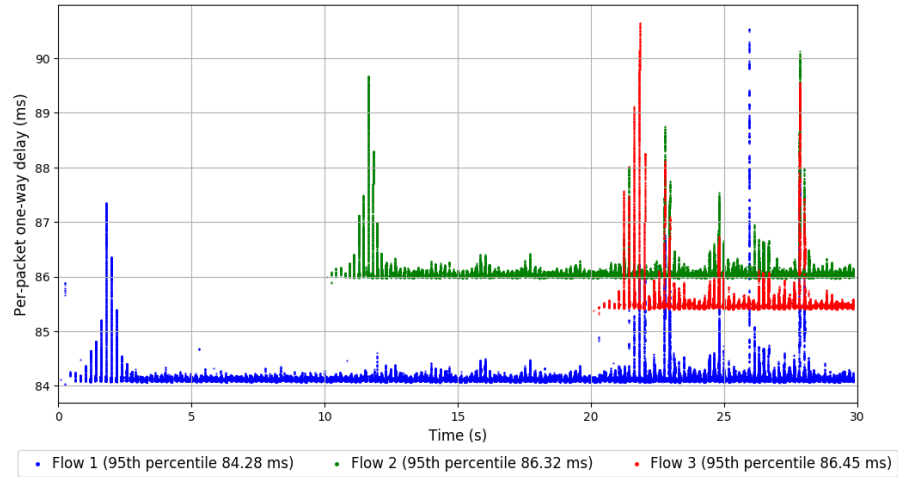
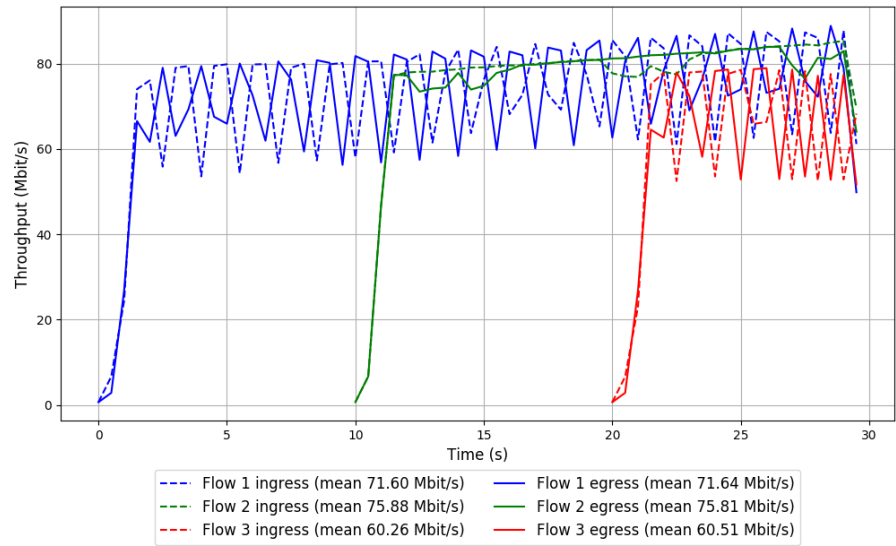


Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 20:31:24  
End at: 2017-12-05 20:31:54  
Local clock offset: 0.805 ms  
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 141.74 Mbit/s  
95th percentile per-packet one-way delay: 86.131 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 71.64 Mbit/s  
95th percentile per-packet one-way delay: 84.280 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 75.81 Mbit/s  
95th percentile per-packet one-way delay: 86.324 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 60.51 Mbit/s  
95th percentile per-packet one-way delay: 86.446 ms  
Loss rate: 1.44%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 20:51:35

End at: 2017-12-05 20:52:05

Local clock offset: 0.326 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2017-12-06 02:19:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 138.40 Mbit/s

95th percentile per-packet one-way delay: 84.734 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 84.797 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 83.569 ms

Loss rate: 0.92%

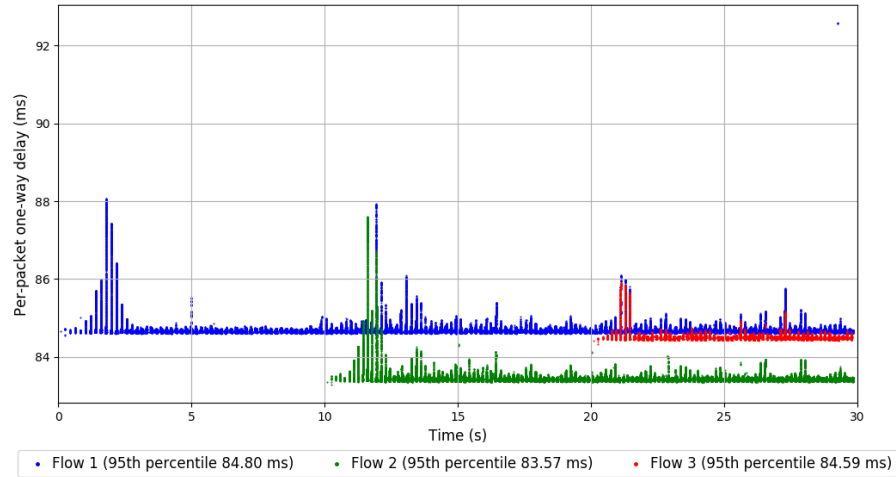
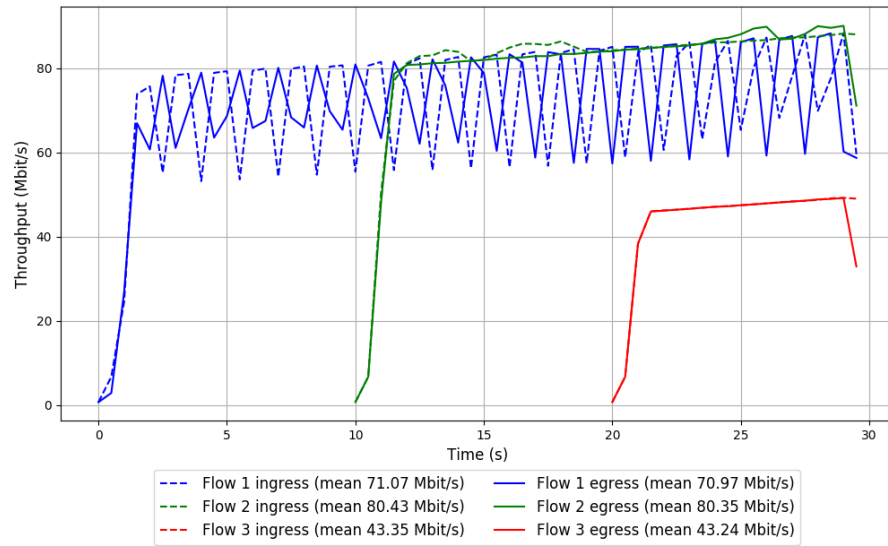
-- Flow 3:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 84.594 ms

Loss rate: 1.92%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 21:11:54

End at: 2017-12-05 21:12:24

Local clock offset: 0.135 ms

Remote clock offset: 2.368 ms

# Below is generated by plot.py at 2017-12-06 02:19:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 144.42 Mbit/s

95th percentile per-packet one-way delay: 82.579 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 82.324 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 79.968 ms

Loss rate: 0.92%

-- Flow 3:

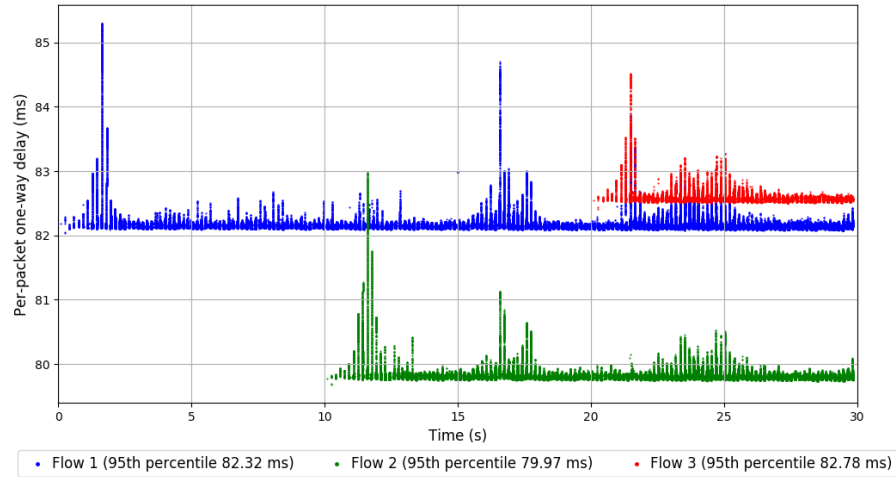
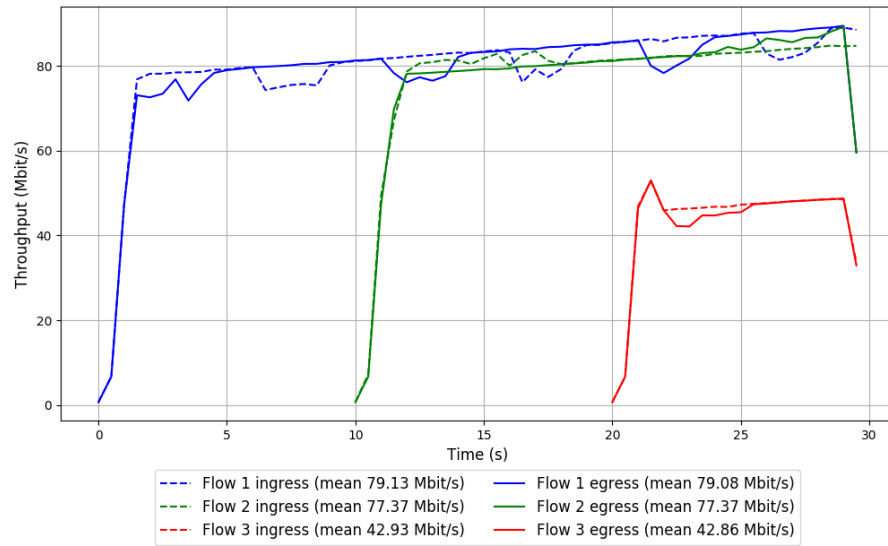
Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 82.784 ms

Loss rate: 1.92%



## Run 7: Report of TCP Vegas — Data Link

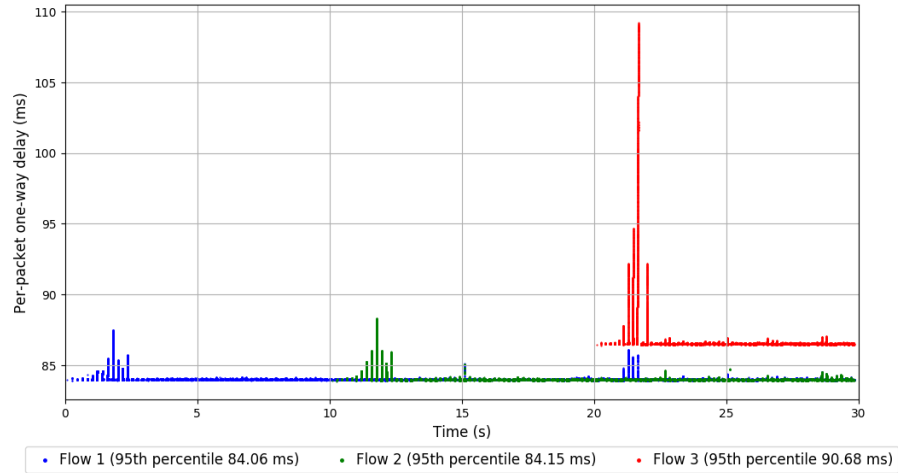
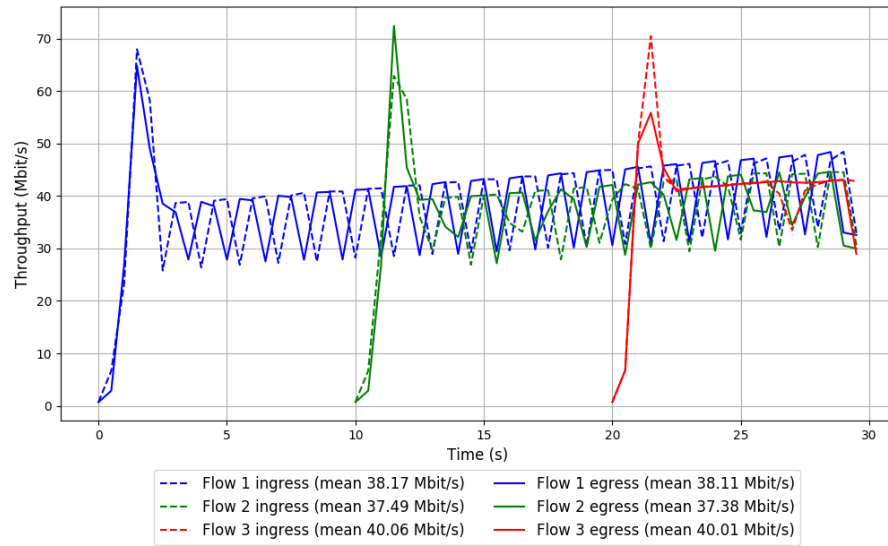


Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 21:31:49  
End at: 2017-12-05 21:32:19  
Local clock offset: -0.038 ms  
Remote clock offset: -2.675 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.00 Mbit/s  
95th percentile per-packet one-way delay: 86.557 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 38.11 Mbit/s  
95th percentile per-packet one-way delay: 84.065 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 37.38 Mbit/s  
95th percentile per-packet one-way delay: 84.151 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 90.681 ms  
Loss rate: 1.82%

# Run 8: Report of TCP Vegas — Data Link

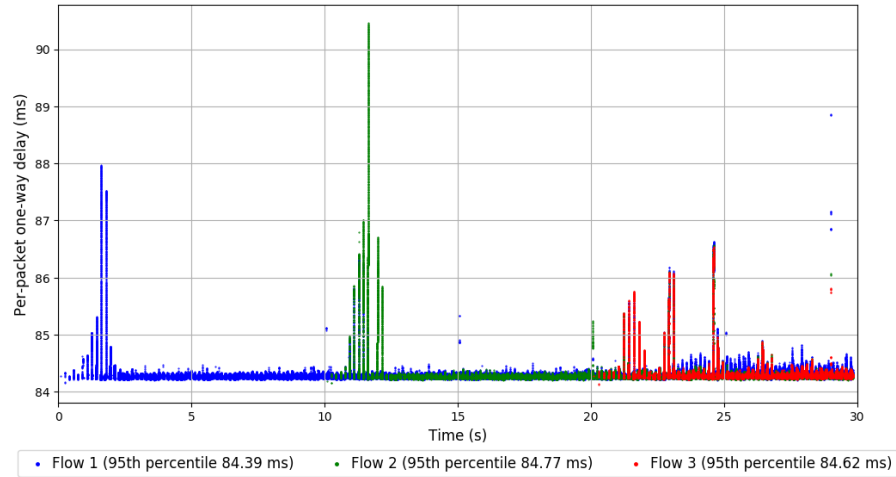
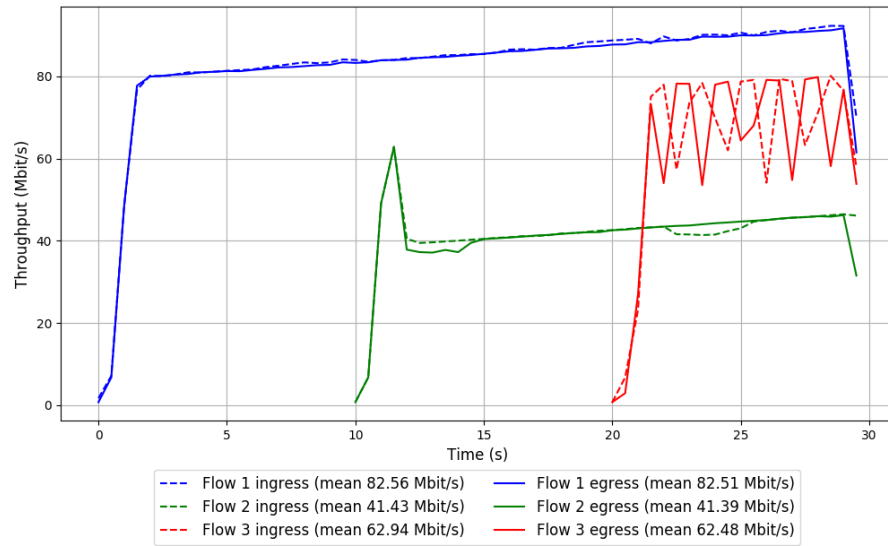


Run 9: Statistics of TCP Vegas

Start at: 2017-12-05 21:51:54  
End at: 2017-12-05 21:52:24  
Local clock offset: -0.64 ms  
Remote clock offset: -2.622 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 130.41 Mbit/s  
95th percentile per-packet one-way delay: 84.437 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 82.51 Mbit/s  
95th percentile per-packet one-way delay: 84.393 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 41.39 Mbit/s  
95th percentile per-packet one-way delay: 84.771 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 62.48 Mbit/s  
95th percentile per-packet one-way delay: 84.616 ms  
Loss rate: 2.14%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-05 22:12:13

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

Local clock offset: -1.394 ms

Remote clock offset: 0.353 ms

# Below is generated by plot.py at 2017-12-06 02:19:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 117.75 Mbit/s

95th percentile per-packet one-way delay: 82.844 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 82.862 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 79.892 ms

Loss rate: 1.02%

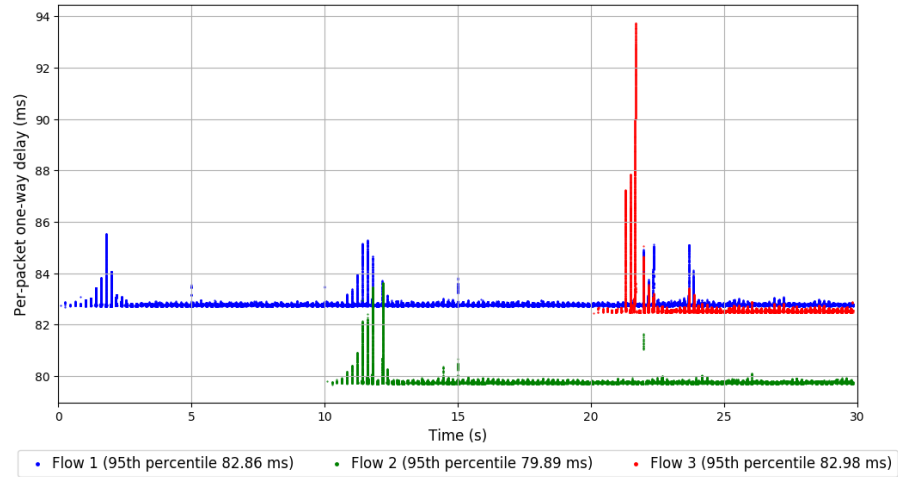
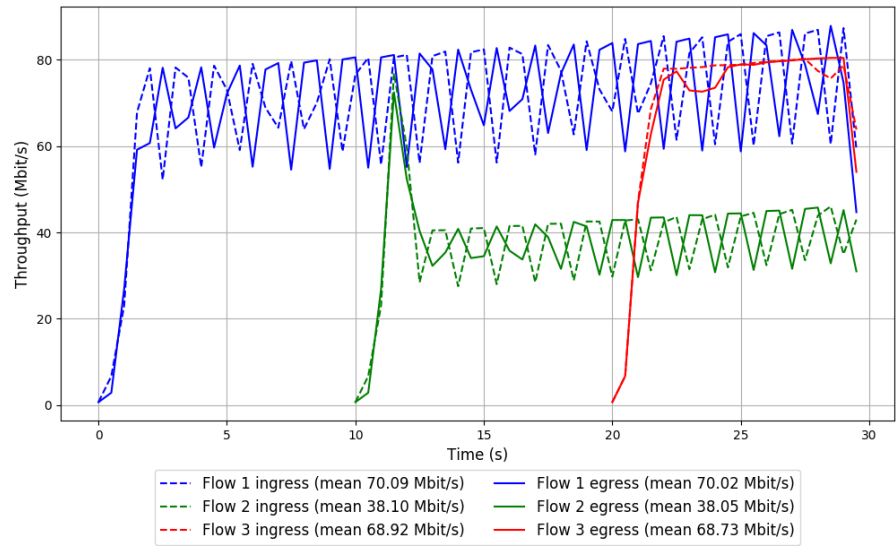
-- Flow 3:

Average throughput: 68.73 Mbit/s

95th percentile per-packet one-way delay: 82.978 ms

Loss rate: 1.97%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-05 19:05:47

End at: 2017-12-05 19:06:17

Local clock offset: 1.415 ms

Remote clock offset: 3.587 ms

# Below is generated by plot.py at 2017-12-06 02:19:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 337.05 Mbit/s

95th percentile per-packet one-way delay: 135.869 ms

Loss rate: 13.46%

-- Flow 1:

Average throughput: 206.10 Mbit/s

95th percentile per-packet one-way delay: 145.957 ms

Loss rate: 11.52%

-- Flow 2:

Average throughput: 190.85 Mbit/s

95th percentile per-packet one-way delay: 112.674 ms

Loss rate: 15.95%

-- Flow 3:

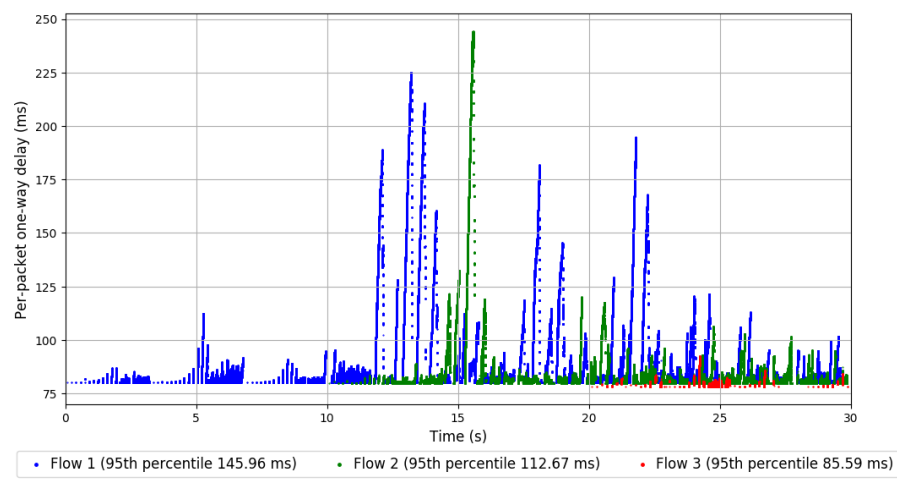
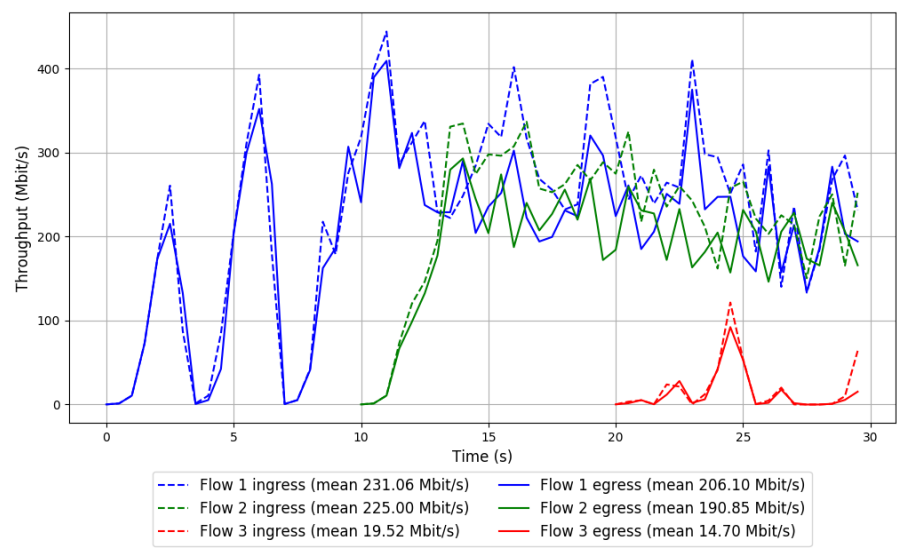
Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 85.587 ms

Loss rate: 25.22%



Run 1: Report of Verus — Data Link

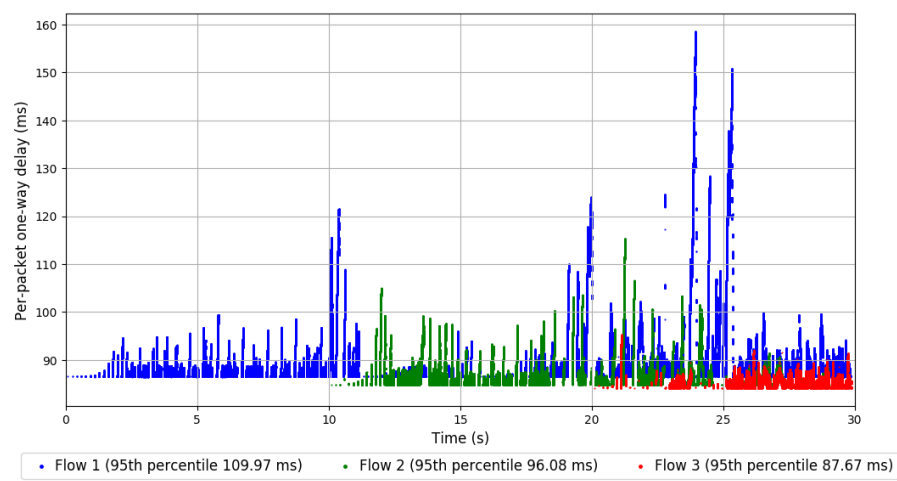
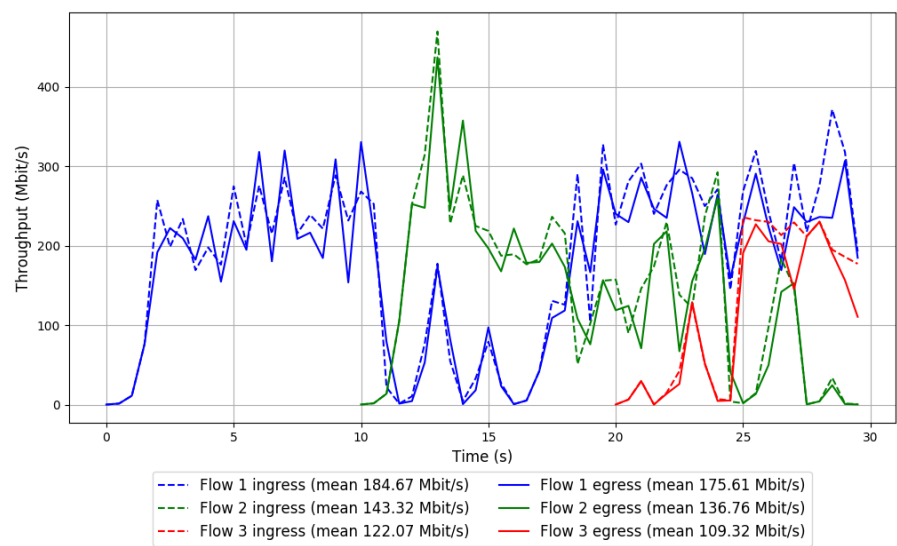


Run 2: Statistics of Verus

Start at: 2017-12-05 19:25:49  
End at: 2017-12-05 19:26:19  
Local clock offset: 1.534 ms  
Remote clock offset: -1.988 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 301.68 Mbit/s  
95th percentile per-packet one-way delay: 101.459 ms  
Loss rate: 6.31%  
-- Flow 1:  
Average throughput: 175.61 Mbit/s  
95th percentile per-packet one-way delay: 109.966 ms  
Loss rate: 5.57%  
-- Flow 2:  
Average throughput: 136.76 Mbit/s  
95th percentile per-packet one-way delay: 96.078 ms  
Loss rate: 5.38%  
-- Flow 3:  
Average throughput: 109.32 Mbit/s  
95th percentile per-packet one-way delay: 87.675 ms  
Loss rate: 11.83%

Run 2: Report of Verus — Data Link

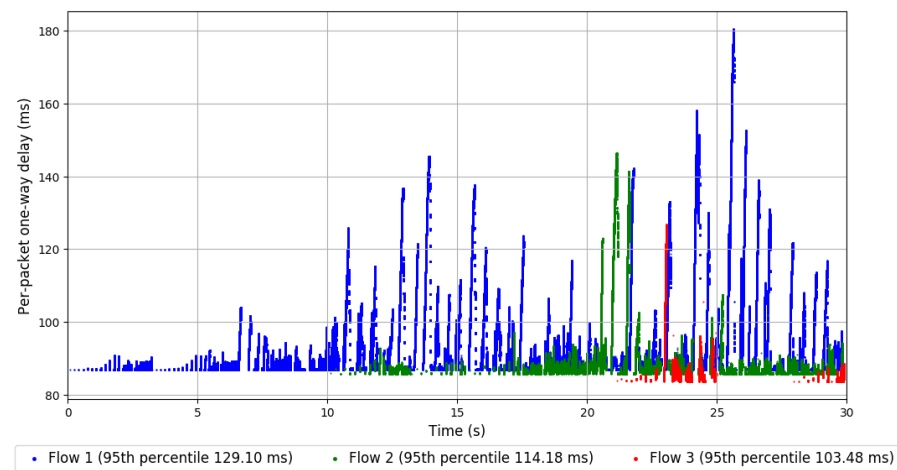
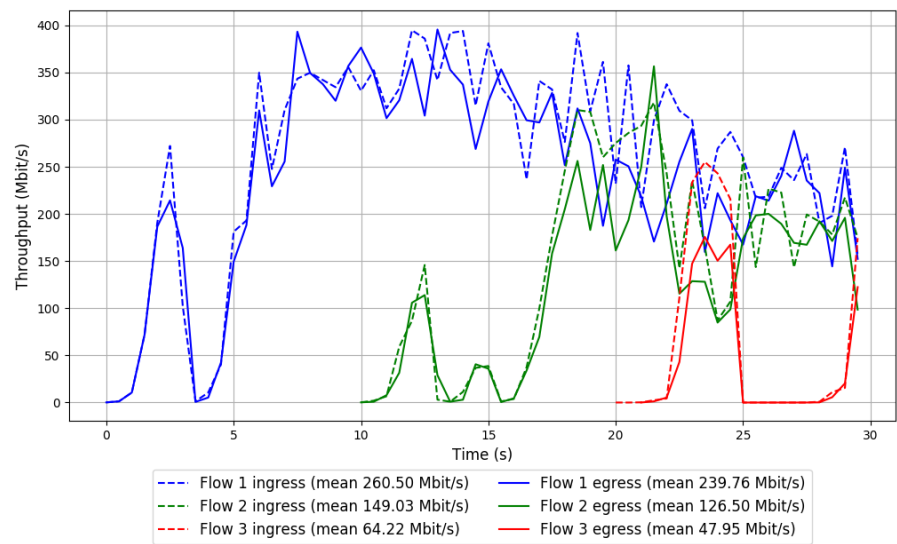


Run 3: Statistics of Verus

Start at: 2017-12-05 19:46:09  
End at: 2017-12-05 19:46:39  
Local clock offset: 1.525 ms  
Remote clock offset: -1.698 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 337.37 Mbit/s  
95th percentile per-packet one-way delay: 125.722 ms  
Loss rate: 11.86%  
-- Flow 1:  
Average throughput: 239.76 Mbit/s  
95th percentile per-packet one-way delay: 129.104 ms  
Loss rate: 8.57%  
-- Flow 2:  
Average throughput: 126.50 Mbit/s  
95th percentile per-packet one-way delay: 114.181 ms  
Loss rate: 15.84%  
-- Flow 3:  
Average throughput: 47.95 Mbit/s  
95th percentile per-packet one-way delay: 103.485 ms  
Loss rate: 33.82%

Run 3: Report of Verus — Data Link

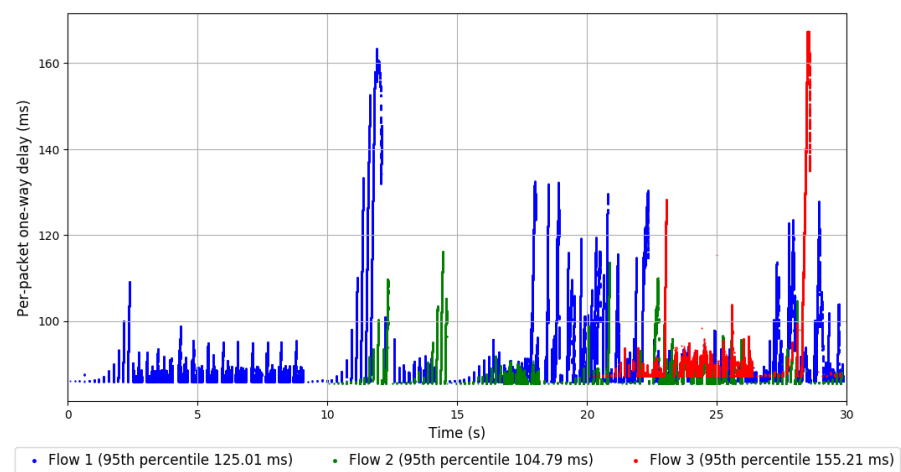
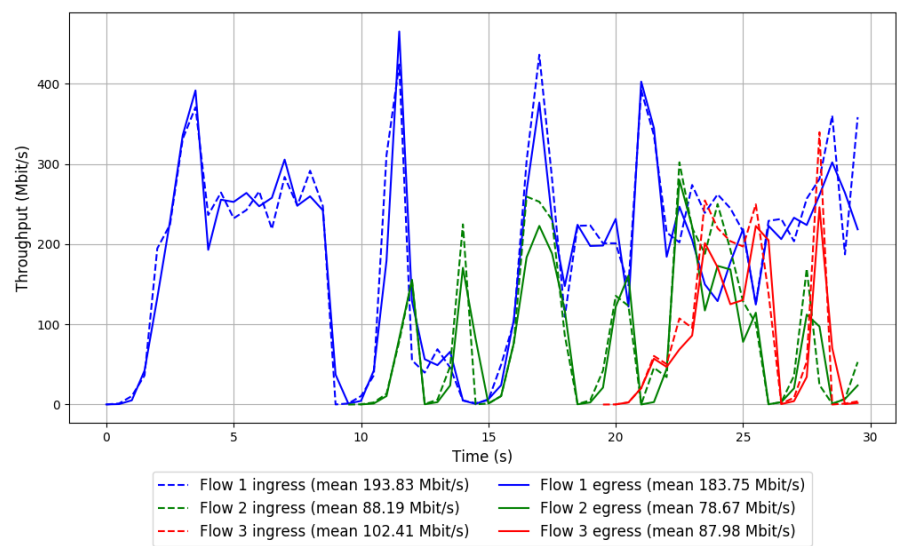


Run 4: Statistics of Verus

Start at: 2017-12-05 20:06:33  
End at: 2017-12-05 20:07:03  
Local clock offset: 1.239 ms  
Remote clock offset: -1.036 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 264.31 Mbit/s  
95th percentile per-packet one-way delay: 123.120 ms  
Loss rate: 8.02%  
-- Flow 1:  
Average throughput: 183.75 Mbit/s  
95th percentile per-packet one-way delay: 125.008 ms  
Loss rate: 5.62%  
-- Flow 2:  
Average throughput: 78.67 Mbit/s  
95th percentile per-packet one-way delay: 104.790 ms  
Loss rate: 11.61%  
-- Flow 3:  
Average throughput: 87.98 Mbit/s  
95th percentile per-packet one-way delay: 155.212 ms  
Loss rate: 15.57%

Run 4: Report of Verus — Data Link



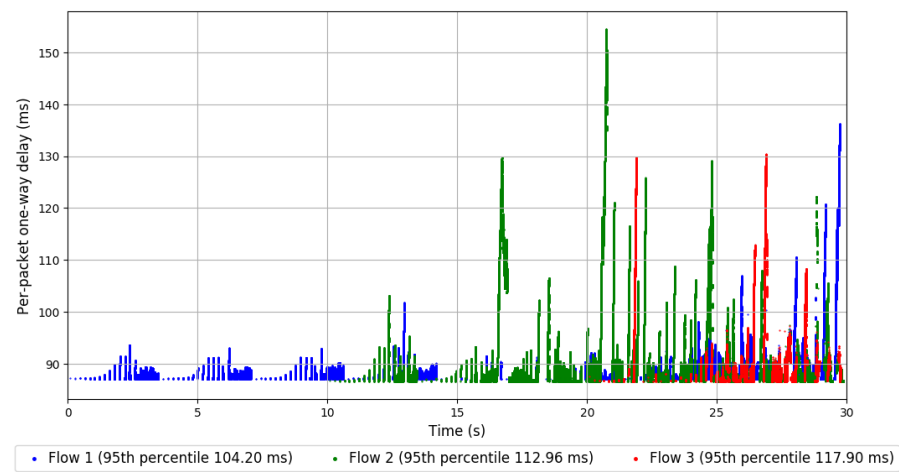
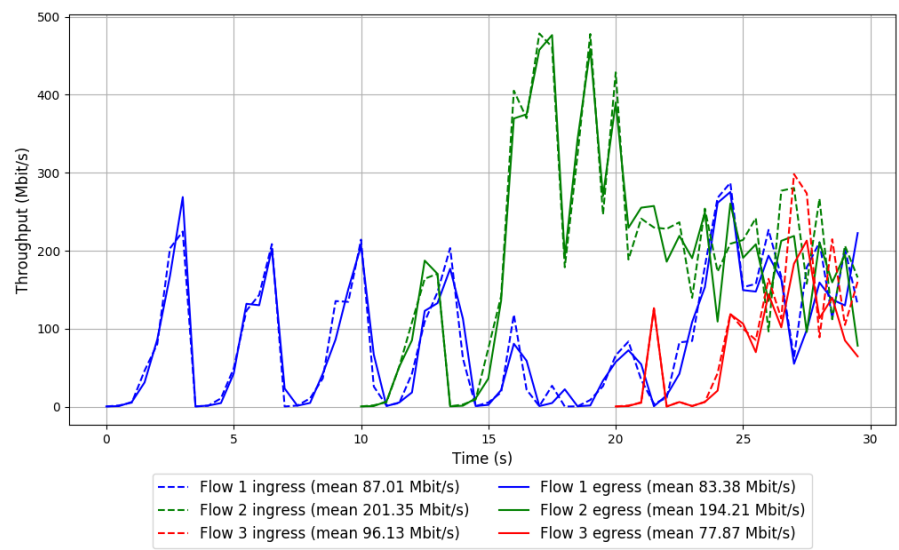
Run 5: Statistics of Verus

Start at: 2017-12-05 20:26:44  
End at: 2017-12-05 20:27:14  
Local clock offset: 0.816 ms  
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2017-12-06 02:19:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 237.26 Mbit/s  
95th percentile per-packet one-way delay: 111.888 ms  
Loss rate: 6.31%  
-- Flow 1:  
Average throughput: 83.38 Mbit/s  
95th percentile per-packet one-way delay: 104.204 ms  
Loss rate: 4.02%  
-- Flow 2:  
Average throughput: 194.21 Mbit/s  
95th percentile per-packet one-way delay: 112.958 ms  
Loss rate: 4.22%  
-- Flow 3:  
Average throughput: 77.87 Mbit/s  
95th percentile per-packet one-way delay: 117.898 ms  
Loss rate: 21.20%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-05 20:46:46

End at: 2017-12-05 20:47:16

Local clock offset: 0.433 ms

Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2017-12-06 02:19:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 284.85 Mbit/s

95th percentile per-packet one-way delay: 140.869 ms

Loss rate: 4.17%

-- Flow 1:

Average throughput: 193.24 Mbit/s

95th percentile per-packet one-way delay: 146.881 ms

Loss rate: 3.46%

-- Flow 2:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 111.938 ms

Loss rate: 6.82%

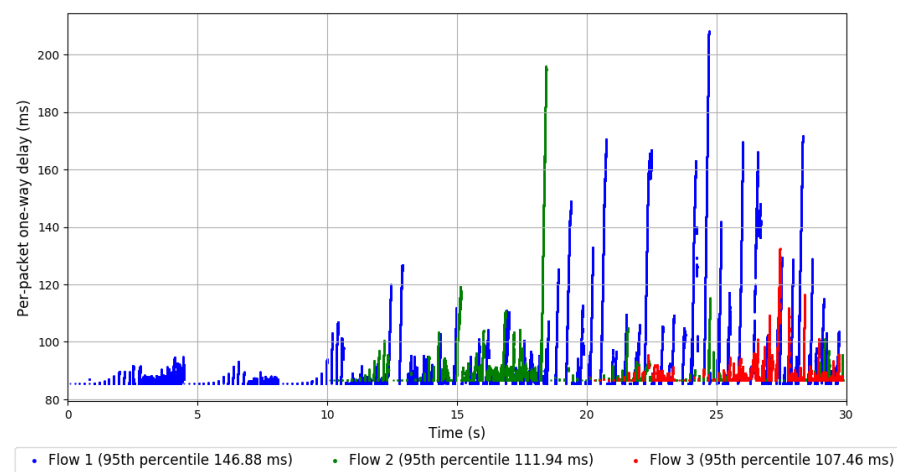
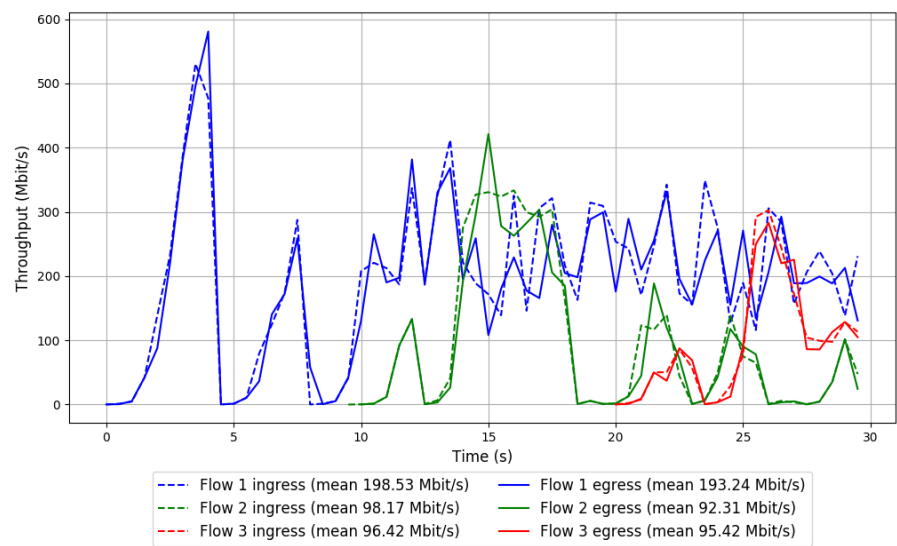
-- Flow 3:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 107.460 ms

Loss rate: 3.14%

Run 6: Report of Verus — Data Link

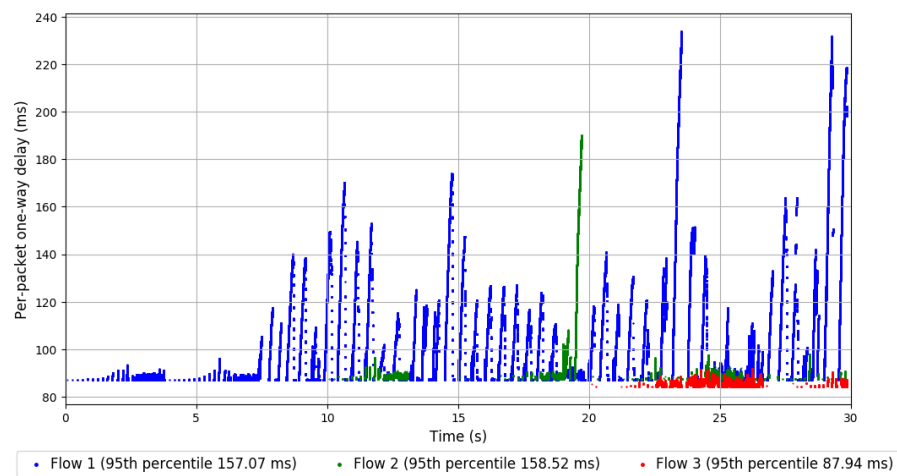
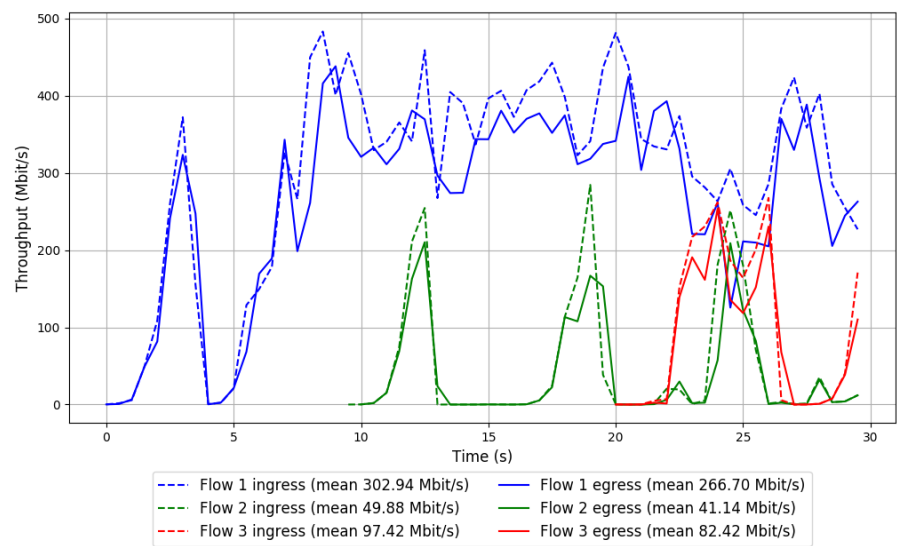


Run 7: Statistics of Verus

Start at: 2017-12-05 21:07:04  
End at: 2017-12-05 21:07:34  
Local clock offset: 0.083 ms  
Remote clock offset: -2.34 ms

# Below is generated by plot.py at 2017-12-06 02:22:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 320.96 Mbit/s  
95th percentile per-packet one-way delay: 153.372 ms  
Loss rate: 12.61%  
-- Flow 1:  
Average throughput: 266.70 Mbit/s  
95th percentile per-packet one-way delay: 157.066 ms  
Loss rate: 11.62%  
-- Flow 2:  
Average throughput: 41.14 Mbit/s  
95th percentile per-packet one-way delay: 158.520 ms  
Loss rate: 18.25%  
-- Flow 3:  
Average throughput: 82.42 Mbit/s  
95th percentile per-packet one-way delay: 87.945 ms  
Loss rate: 16.05%

Run 7: Report of Verus — Data Link

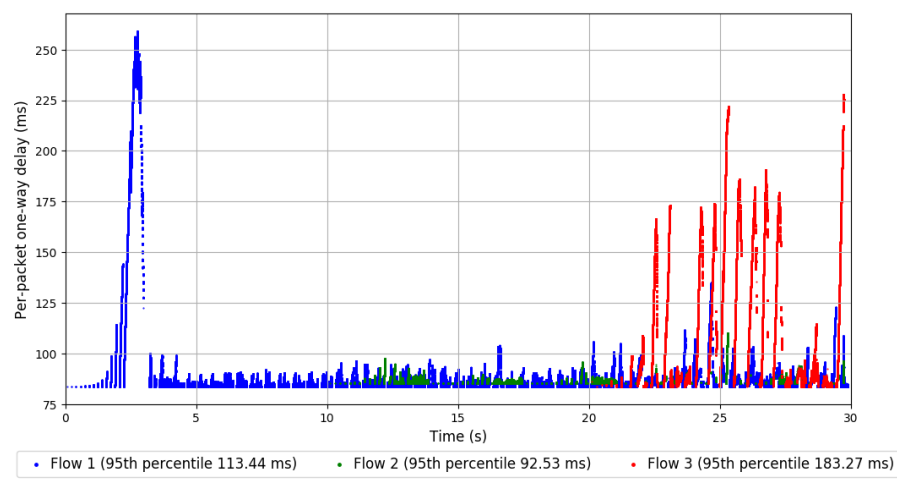
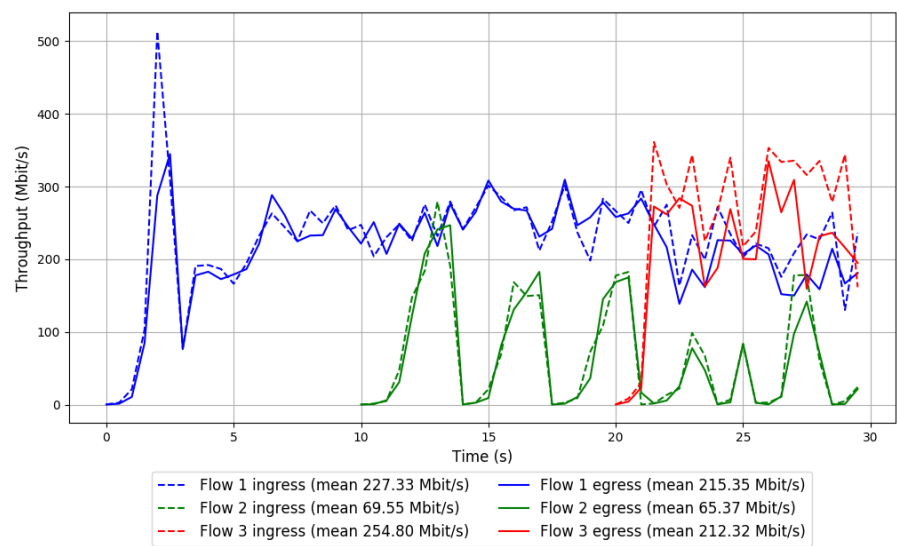


Run 8: Statistics of Verus

Start at: 2017-12-05 21:27:02  
End at: 2017-12-05 21:27:32  
Local clock offset: -0.003 ms  
Remote clock offset: -2.758 ms

# Below is generated by plot.py at 2017-12-06 02:22:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 326.94 Mbit/s  
95th percentile per-packet one-way delay: 166.442 ms  
Loss rate: 8.77%  
-- Flow 1:  
Average throughput: 215.35 Mbit/s  
95th percentile per-packet one-way delay: 113.442 ms  
Loss rate: 5.41%  
-- Flow 2:  
Average throughput: 65.37 Mbit/s  
95th percentile per-packet one-way delay: 92.525 ms  
Loss rate: 5.98%  
-- Flow 3:  
Average throughput: 212.32 Mbit/s  
95th percentile per-packet one-way delay: 183.268 ms  
Loss rate: 19.28%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-05 21:47:11

End at: 2017-12-05 21:47:41

Local clock offset: -0.436 ms

Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2017-12-06 02:22:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 232.08 Mbit/s

95th percentile per-packet one-way delay: 128.336 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 157.58 Mbit/s

95th percentile per-packet one-way delay: 127.657 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: 100.746 ms

Loss rate: 2.75%

-- Flow 3:

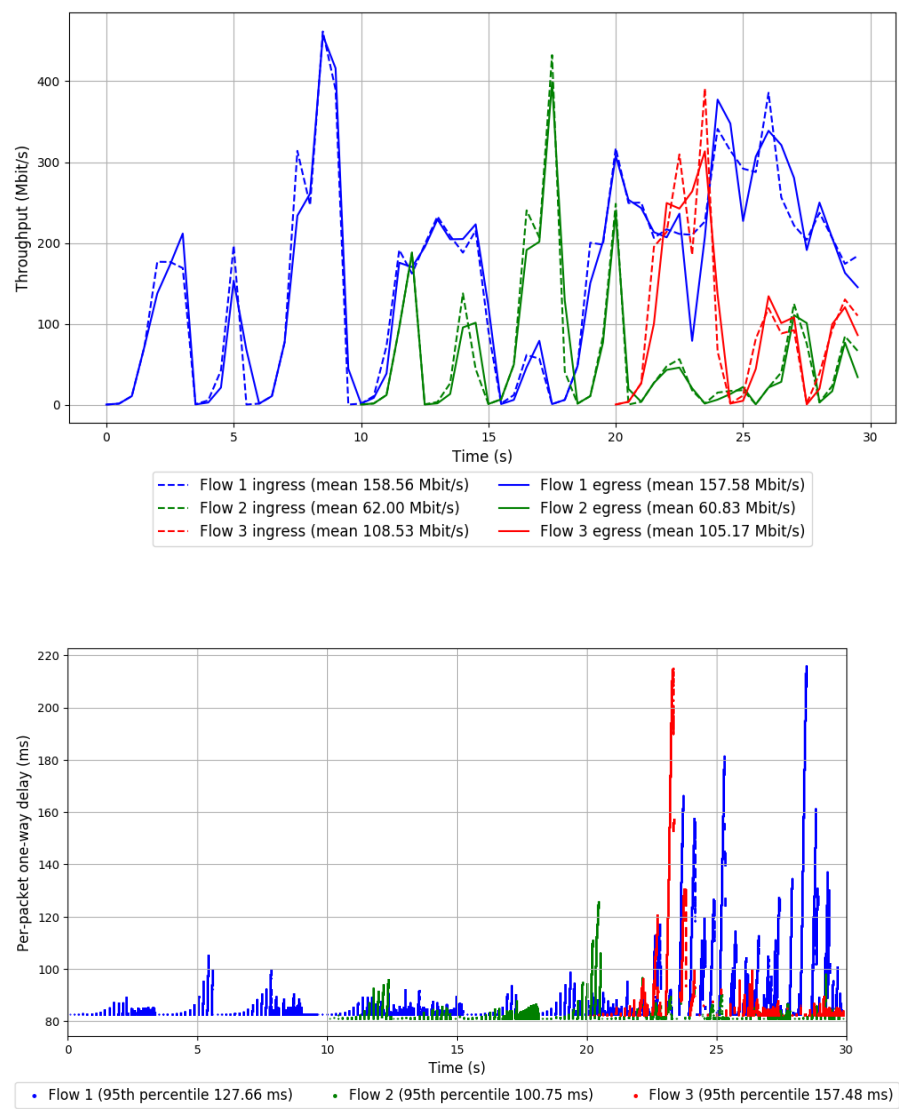
Average throughput: 105.17 Mbit/s

95th percentile per-packet one-way delay: 157.477 ms

Loss rate: 4.77%



Run 9: Report of Verus — Data Link

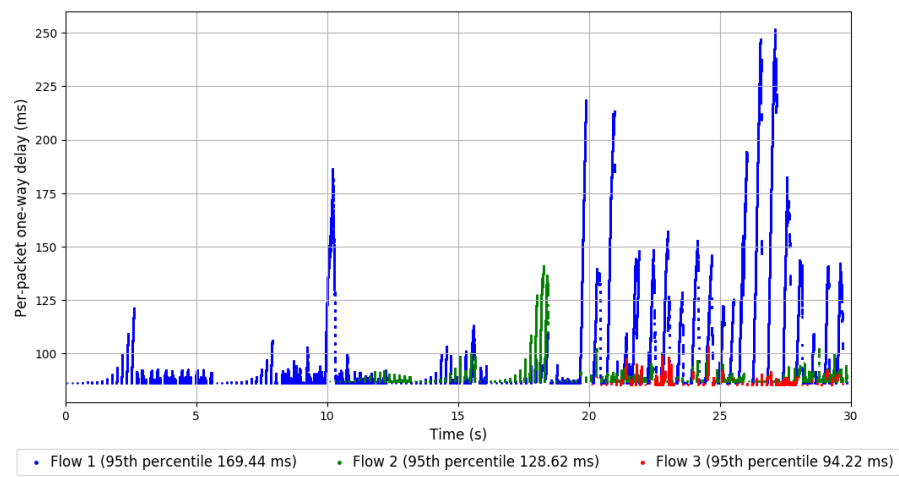
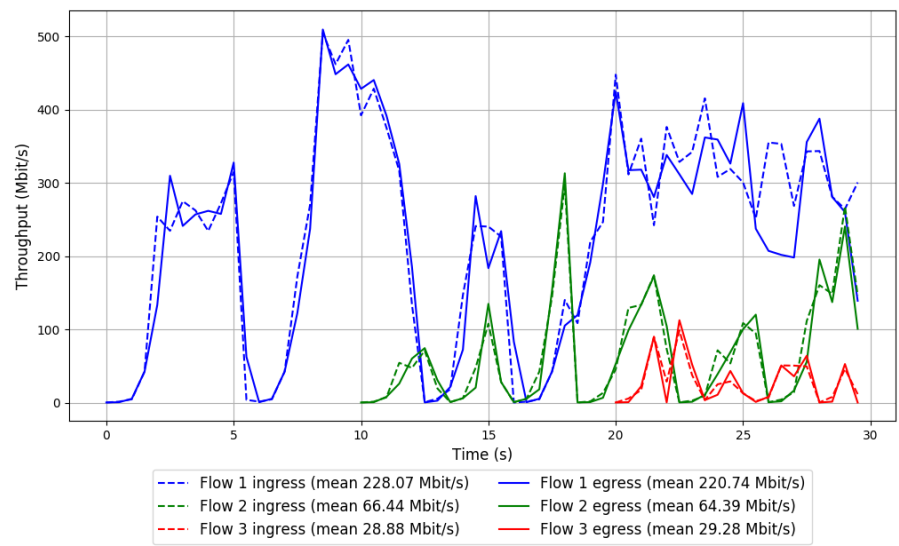


Run 10: Statistics of Verus

Start at: 2017-12-05 22:07:17  
End at: 2017-12-05 22:07:47  
Local clock offset: -1.216 ms  
Remote clock offset: -4.164 ms

# Below is generated by plot.py at 2017-12-06 02:22:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 272.82 Mbit/s  
95th percentile per-packet one-way delay: 163.183 ms  
Loss rate: 3.74%  
-- Flow 1:  
Average throughput: 220.74 Mbit/s  
95th percentile per-packet one-way delay: 169.439 ms  
Loss rate: 3.76%  
-- Flow 2:  
Average throughput: 64.39 Mbit/s  
95th percentile per-packet one-way delay: 128.618 ms  
Loss rate: 4.03%  
-- Flow 3:  
Average throughput: 29.28 Mbit/s  
95th percentile per-packet one-way delay: 94.218 ms  
Loss rate: 2.02%

Run 10: Report of Verus — Data Link

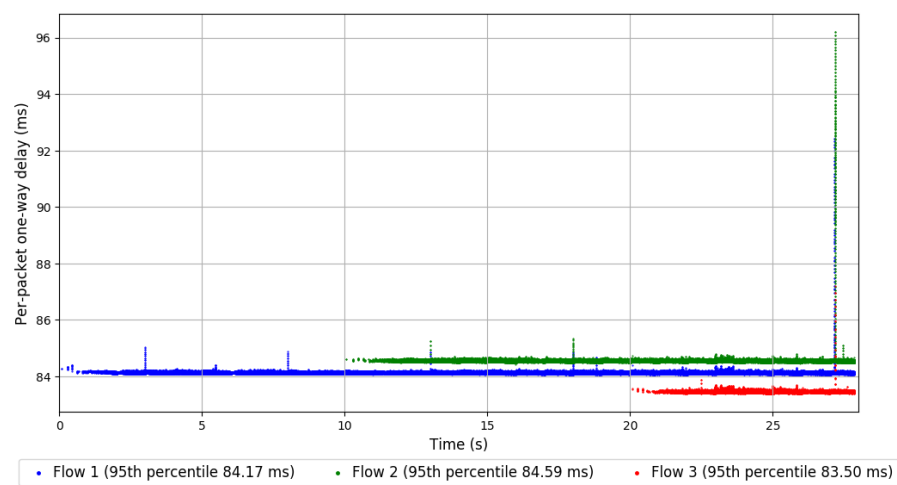
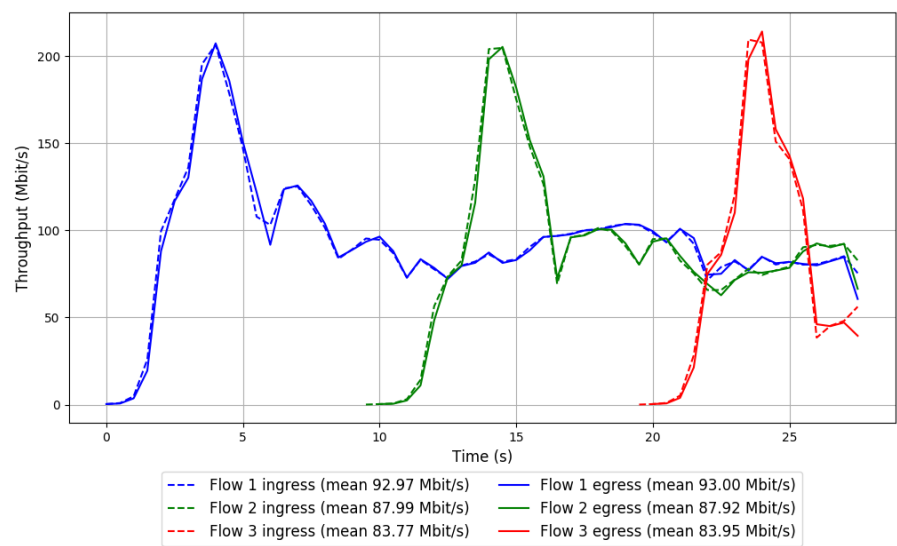


Run 1: Statistics of Copa

Start at: 2017-12-05 18:55:34  
End at: 2017-12-05 18:56:04  
Local clock offset: 1.027 ms  
Remote clock offset: -1.353 ms

# Below is generated by plot.py at 2017-12-06 02:22:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.84 Mbit/s  
95th percentile per-packet one-way delay: 84.578 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 93.00 Mbit/s  
95th percentile per-packet one-way delay: 84.172 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 87.92 Mbit/s  
95th percentile per-packet one-way delay: 84.593 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 83.95 Mbit/s  
95th percentile per-packet one-way delay: 83.499 ms  
Loss rate: 1.90%

Run 1: Report of Copa — Data Link

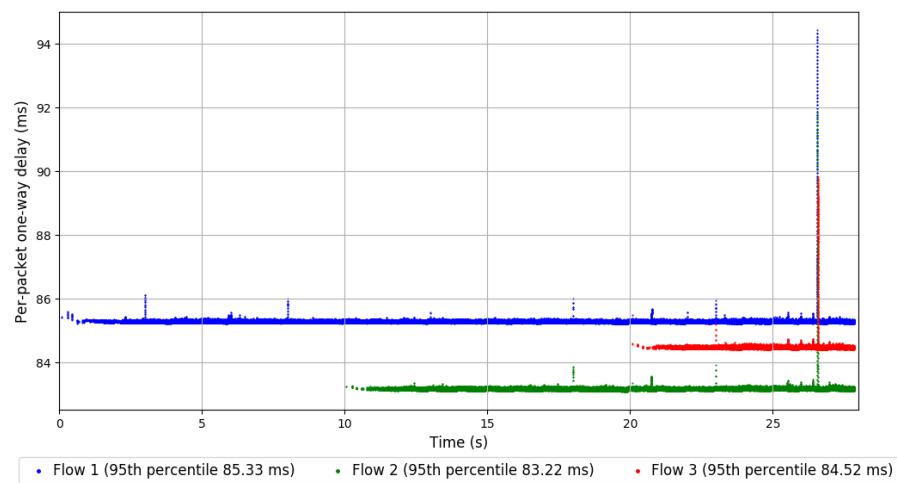
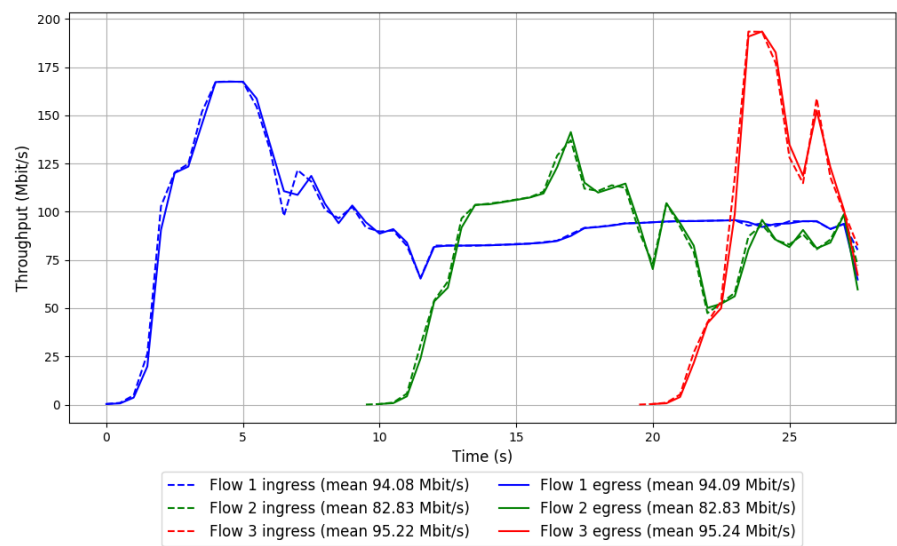


Run 2: Statistics of Copa

Start at: 2017-12-05 19:15:44  
End at: 2017-12-05 19:16:14  
Local clock offset: 1.543 ms  
Remote clock offset: -1.348 ms

# Below is generated by plot.py at 2017-12-06 02:22:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 173.84 Mbit/s  
95th percentile per-packet one-way delay: 85.325 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 85.332 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 82.83 Mbit/s  
95th percentile per-packet one-way delay: 83.219 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 95.24 Mbit/s  
95th percentile per-packet one-way delay: 84.521 ms  
Loss rate: 2.10%

Run 2: Report of Copa — Data Link



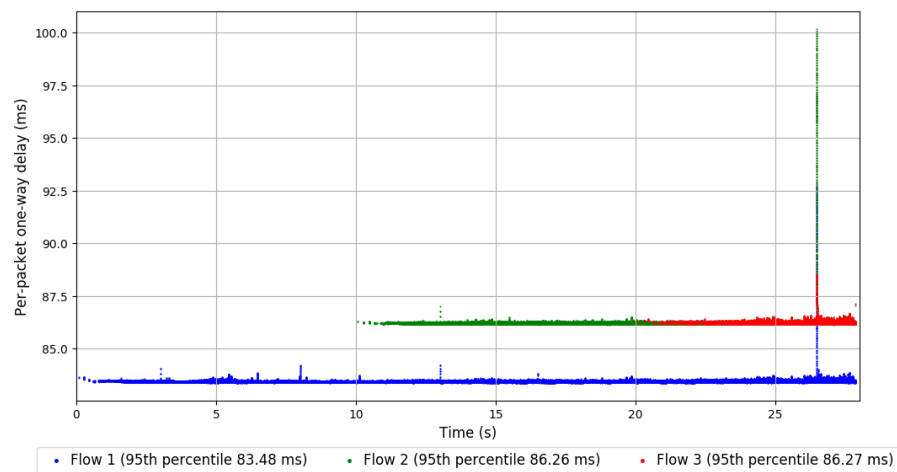
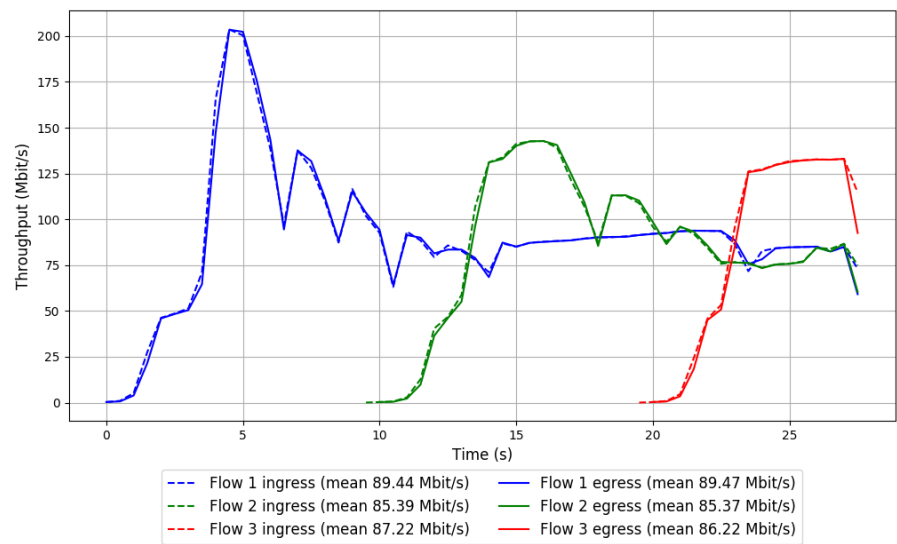
Run 3: Statistics of Copa

Start at: 2017-12-05 19:36:03  
End at: 2017-12-05 19:36:33  
Local clock offset: 1.512 ms  
Remote clock offset: -1.511 ms

# Below is generated by plot.py at 2017-12-06 02:23:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 168.28 Mbit/s  
95th percentile per-packet one-way delay: 86.256 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 89.47 Mbit/s  
95th percentile per-packet one-way delay: 83.482 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 85.37 Mbit/s  
95th percentile per-packet one-way delay: 86.263 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 86.22 Mbit/s  
95th percentile per-packet one-way delay: 86.273 ms  
Loss rate: 3.25%



Run 3: Report of Copa — Data Link

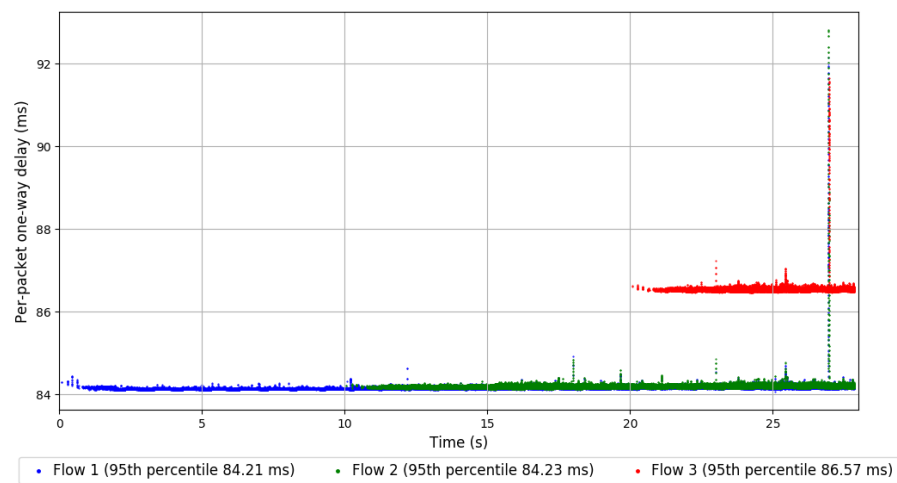
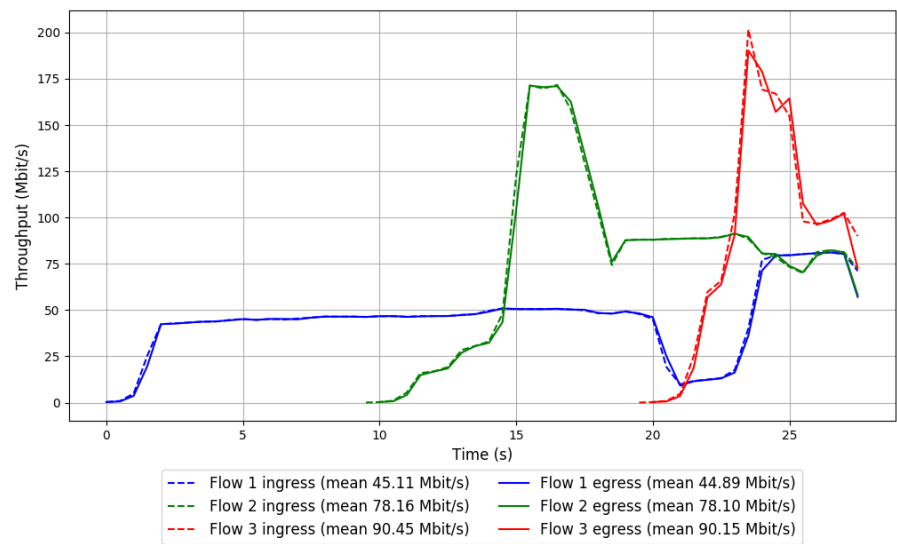


Run 4: Statistics of Copa

Start at: 2017-12-05 19:56:25  
End at: 2017-12-05 19:56:55  
Local clock offset: 1.324 ms  
Remote clock offset: -1.091 ms

# Below is generated by plot.py at 2017-12-06 02:23:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 120.18 Mbit/s  
95th percentile per-packet one-way delay: 86.546 ms  
Loss rate: 1.35%  
-- Flow 1:  
Average throughput: 44.89 Mbit/s  
95th percentile per-packet one-way delay: 84.209 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 78.10 Mbit/s  
95th percentile per-packet one-way delay: 84.228 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 90.15 Mbit/s  
95th percentile per-packet one-way delay: 86.569 ms  
Loss rate: 2.46%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-05 20:16:31

End at: 2017-12-05 20:17:01

Local clock offset: 1.096 ms

Remote clock offset: 4.881 ms

# Below is generated by plot.py at 2017-12-06 02:24:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 154.04 Mbit/s

95th percentile per-packet one-way delay: 82.232 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 81.64 Mbit/s

95th percentile per-packet one-way delay: 82.239 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 75.79 Mbit/s

95th percentile per-packet one-way delay: 81.815 ms

Loss rate: 0.97%

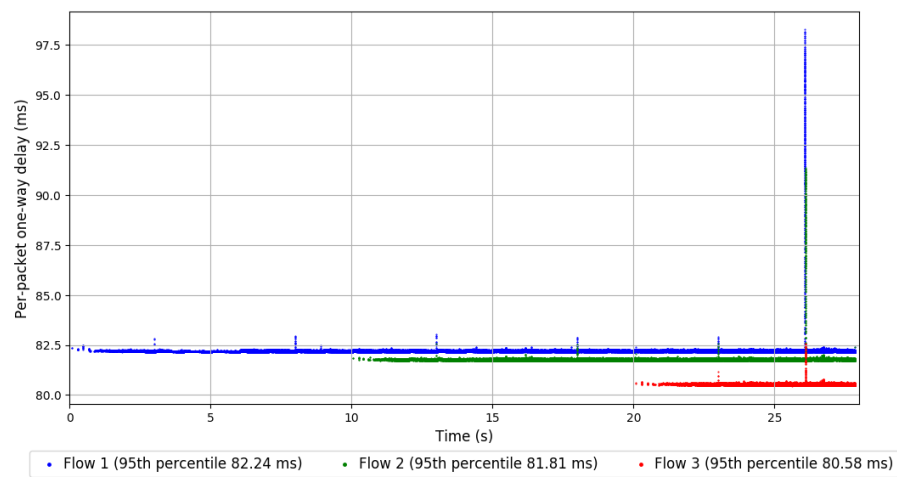
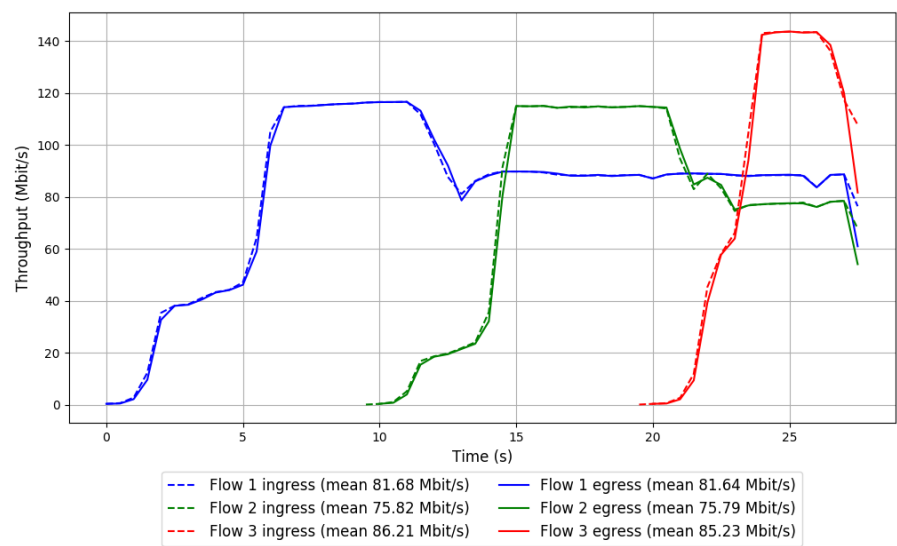
-- Flow 3:

Average throughput: 85.23 Mbit/s

95th percentile per-packet one-way delay: 80.577 ms

Loss rate: 3.24%

Run 5: Report of Copa — Data Link

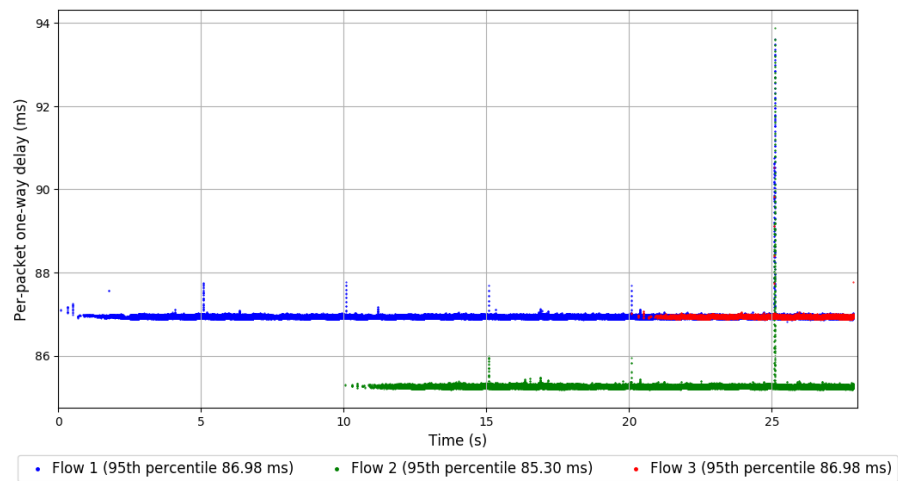
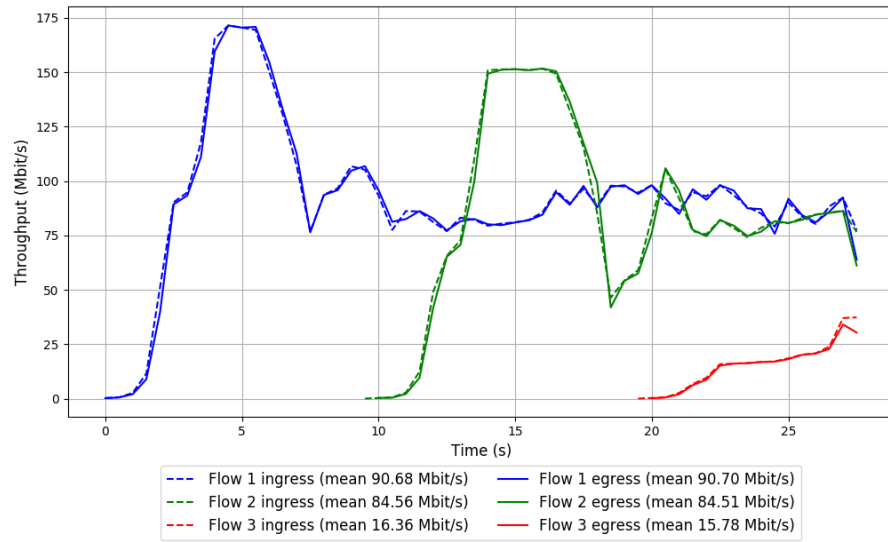


Run 6: Statistics of Copa

Start at: 2017-12-05 20:36:41  
End at: 2017-12-05 20:37:11  
Local clock offset: 0.606 ms  
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2017-12-06 02:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 149.24 Mbit/s  
95th percentile per-packet one-way delay: 86.973 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 90.70 Mbit/s  
95th percentile per-packet one-way delay: 86.977 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 84.51 Mbit/s  
95th percentile per-packet one-way delay: 85.300 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 15.78 Mbit/s  
95th percentile per-packet one-way delay: 86.979 ms  
Loss rate: 5.63%

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-05 20:56:55

End at: 2017-12-05 20:57:25

Local clock offset: 0.266 ms

Remote clock offset: 4.032 ms

# Below is generated by plot.py at 2017-12-06 02:26:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 168.70 Mbit/s

95th percentile per-packet one-way delay: 81.594 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 89.40 Mbit/s

95th percentile per-packet one-way delay: 80.512 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 81.608 ms

Loss rate: 1.05%

-- Flow 3:

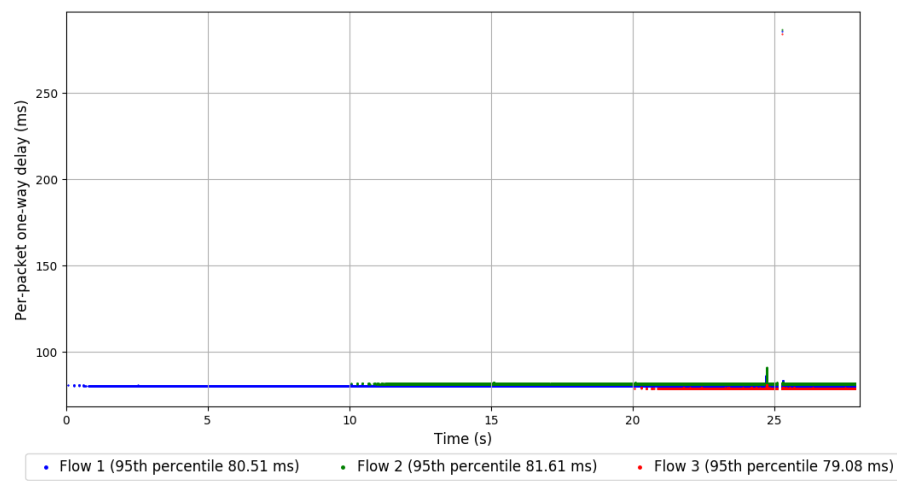
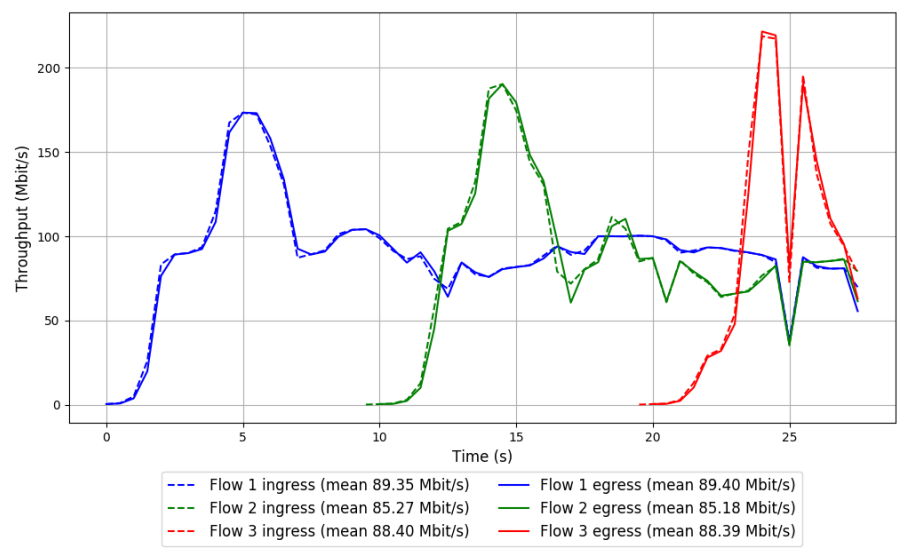
Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 79.075 ms

Loss rate: 2.12%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-05 21:17:10

End at: 2017-12-05 21:17:40

Local clock offset: 0.017 ms

Remote clock offset: 2.724 ms

# Below is generated by plot.py at 2017-12-06 02:26:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 81.827 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 47.47 Mbit/s

95th percentile per-packet one-way delay: 81.835 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 79.088 ms

Loss rate: 1.08%

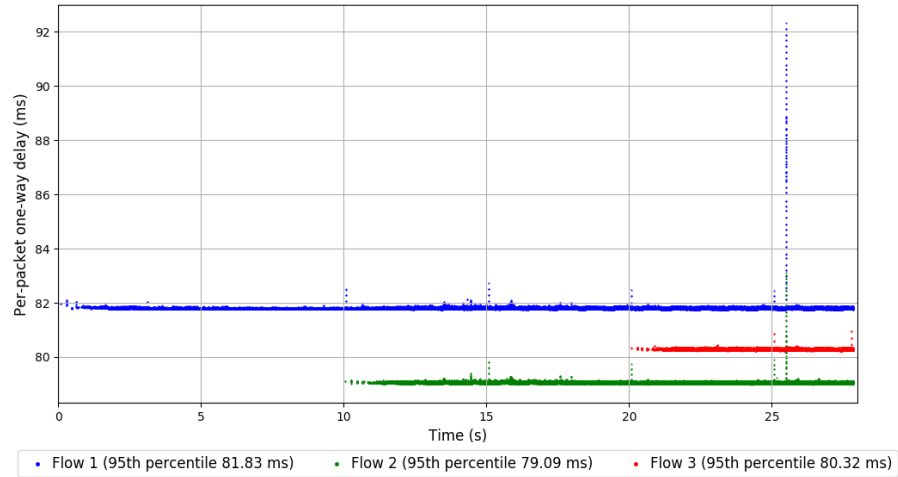
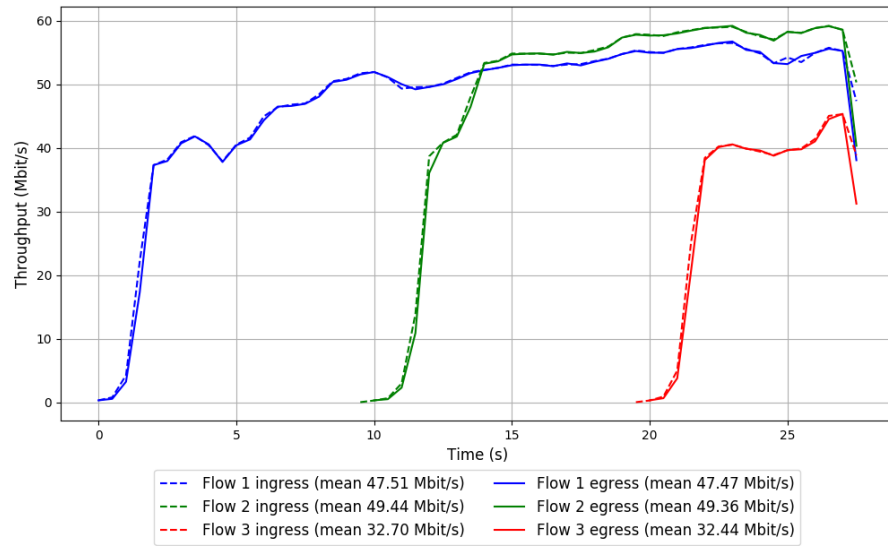
-- Flow 3:

Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 80.319 ms

Loss rate: 2.88%

## Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-05 21:37:03

End at: 2017-12-05 21:37:33

Local clock offset: -0.208 ms

Remote clock offset: 1.679 ms

# Below is generated by plot.py at 2017-12-06 02:26:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 155.19 Mbit/s

95th percentile per-packet one-way delay: 81.891 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 80.807 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 67.09 Mbit/s

95th percentile per-packet one-way delay: 81.908 ms

Loss rate: 1.21%

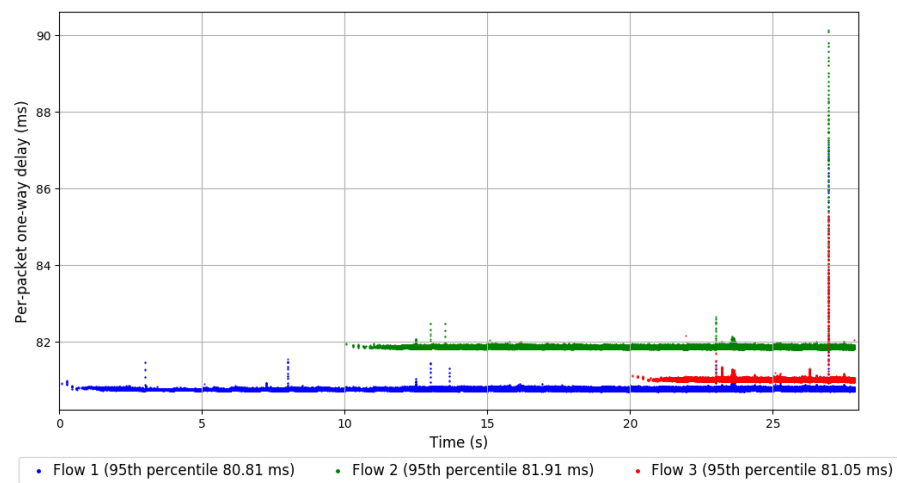
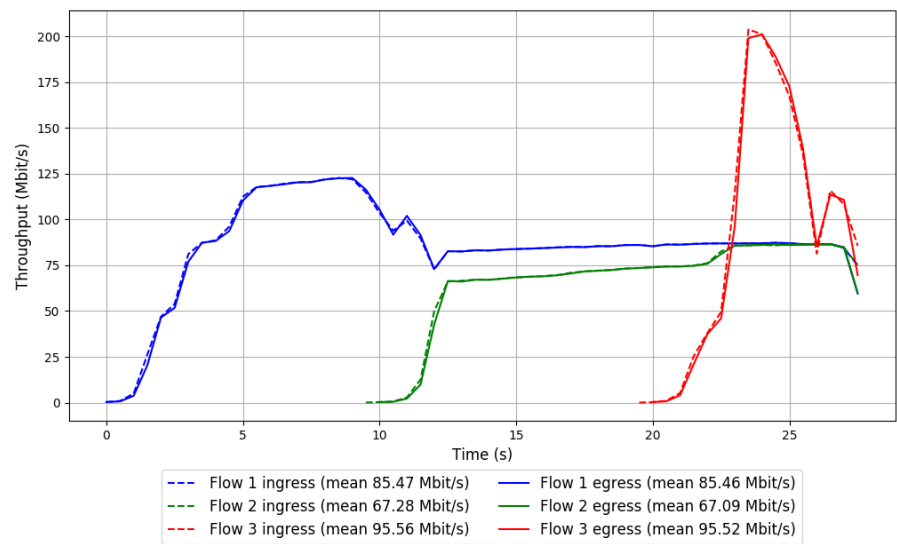
-- Flow 3:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 81.053 ms

Loss rate: 2.15%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-05 21:57:10

End at: 2017-12-05 21:57:40

Local clock offset: -0.911 ms

Remote clock offset: 2.866 ms

# Below is generated by plot.py at 2017-12-06 02:27:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 175.80 Mbit/s

95th percentile per-packet one-way delay: 79.399 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 79.392 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 79.408 ms

Loss rate: 0.92%

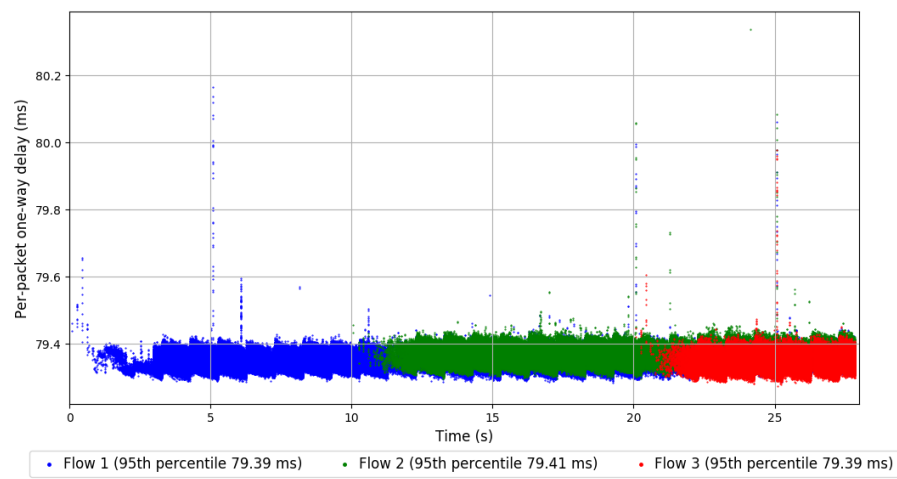
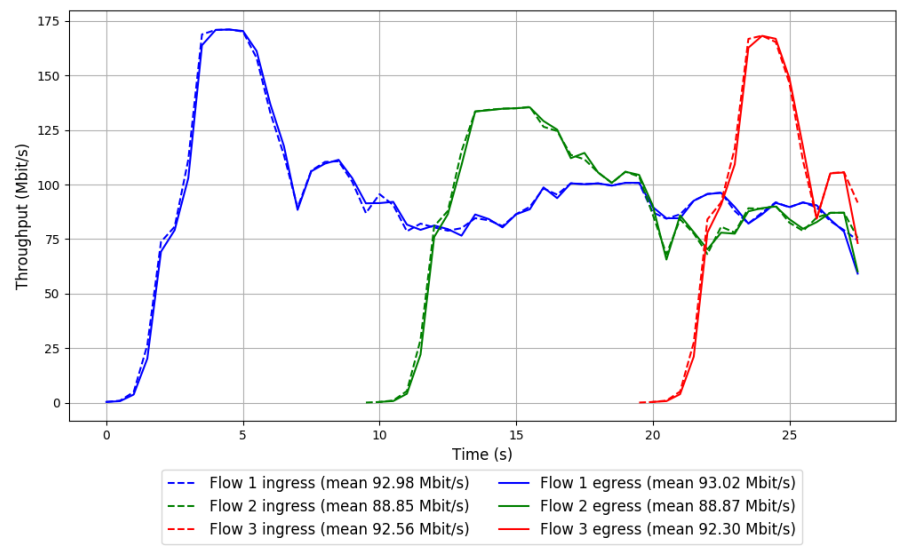
-- Flow 3:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 79.389 ms

Loss rate: 2.41%

Run 10: Report of Copa — Data Link



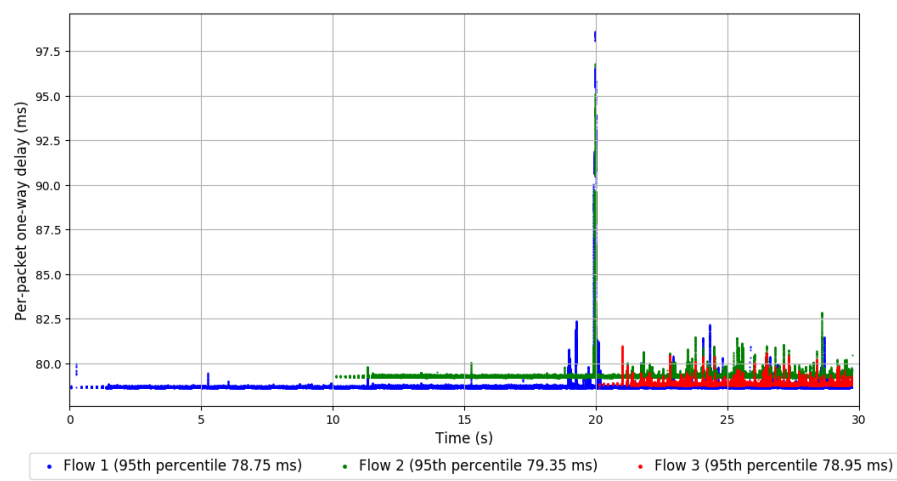
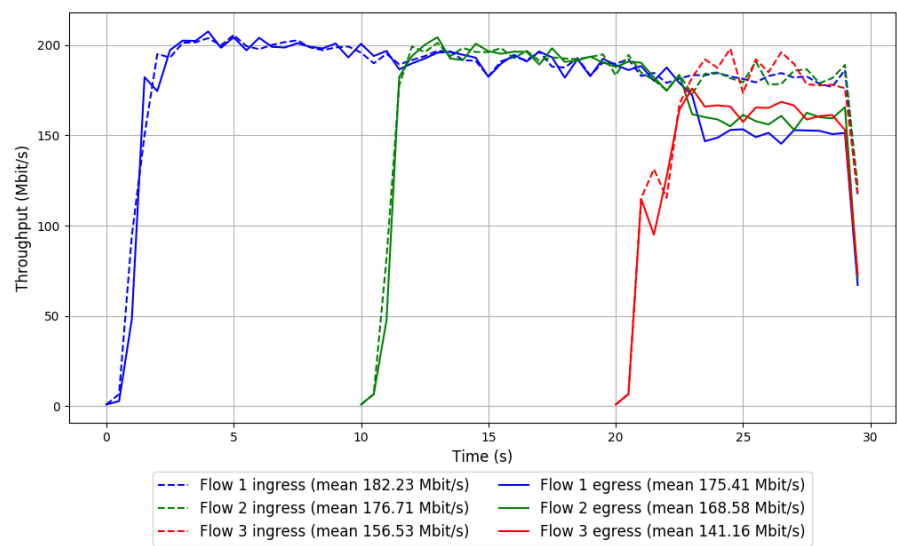
```
Run 1: Statistics of Indigo

Start at: 2017-12-05 19:04:04
End at: 2017-12-05 19:04:34
Local clock offset: 1.304 ms
Remote clock offset: 4.529 ms

# Below is generated by plot.py at 2017-12-06 02:27:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.59 Mbit/s
95th percentile per-packet one-way delay: 79.308 ms
Loss rate: 5.69%
-- Flow 1:
Average throughput: 175.41 Mbit/s
95th percentile per-packet one-way delay: 78.747 ms
Loss rate: 4.28%
-- Flow 2:
Average throughput: 168.58 Mbit/s
95th percentile per-packet one-way delay: 79.348 ms
Loss rate: 5.41%
-- Flow 3:
Average throughput: 141.16 Mbit/s
95th percentile per-packet one-way delay: 78.950 ms
Loss rate: 11.36%
```



Run 1: Report of Indigo — Data Link

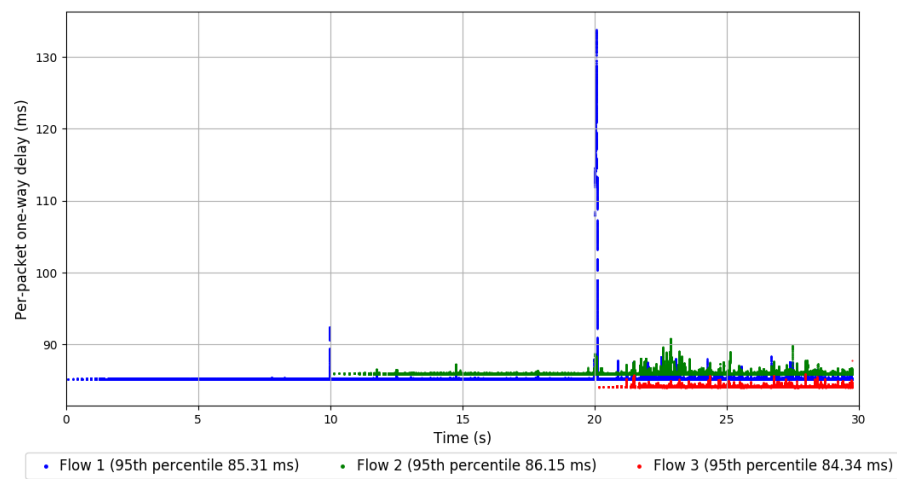
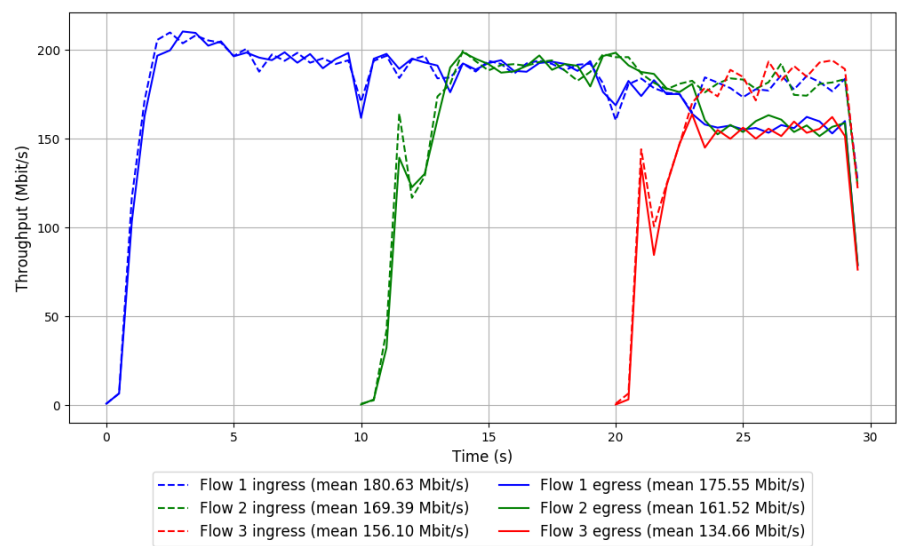


Run 2: Statistics of Indigo

Start at: 2017-12-05 19:24:09  
End at: 2017-12-05 19:24:39  
Local clock offset: 1.53 ms  
Remote clock offset: -2.313 ms

# Below is generated by plot.py at 2017-12-06 02:28:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.81 Mbit/s  
95th percentile per-packet one-way delay: 86.027 ms  
Loss rate: 5.79%  
-- Flow 1:  
Average throughput: 175.55 Mbit/s  
95th percentile per-packet one-way delay: 85.309 ms  
Loss rate: 3.35%  
-- Flow 2:  
Average throughput: 161.52 Mbit/s  
95th percentile per-packet one-way delay: 86.153 ms  
Loss rate: 5.45%  
-- Flow 3:  
Average throughput: 134.66 Mbit/s  
95th percentile per-packet one-way delay: 84.337 ms  
Loss rate: 15.17%

Run 2: Report of Indigo — Data Link

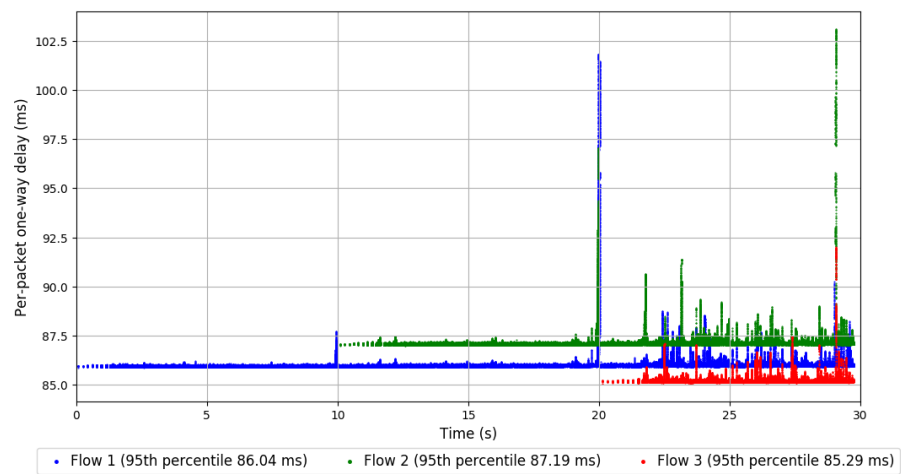
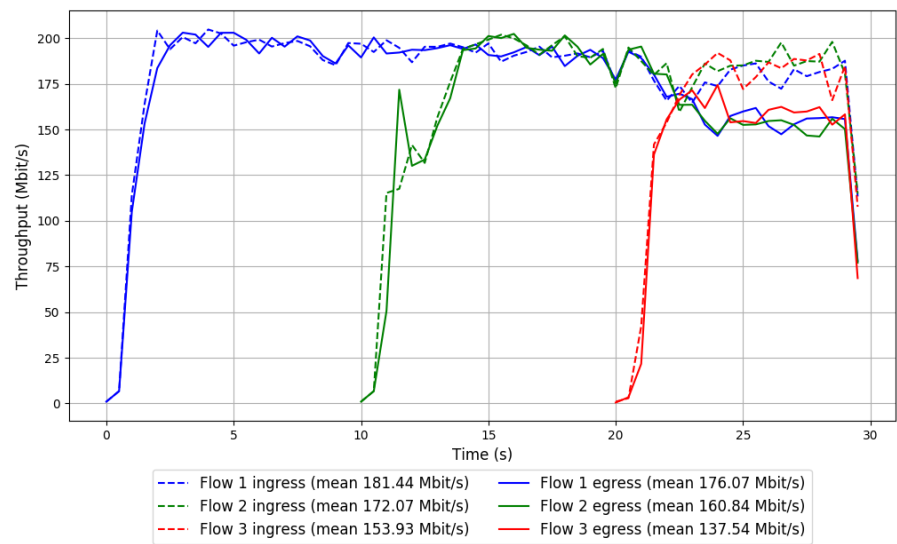


Run 3: Statistics of Indigo

Start at: 2017-12-05 19:44:28  
End at: 2017-12-05 19:44:58  
Local clock offset: 1.613 ms  
Remote clock offset: -1.871 ms

# Below is generated by plot.py at 2017-12-06 02:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 327.03 Mbit/s  
95th percentile per-packet one-way delay: 87.132 ms  
Loss rate: 6.03%  
-- Flow 1:  
Average throughput: 176.07 Mbit/s  
95th percentile per-packet one-way delay: 86.041 ms  
Loss rate: 3.51%  
-- Flow 2:  
Average throughput: 160.84 Mbit/s  
95th percentile per-packet one-way delay: 87.187 ms  
Loss rate: 7.33%  
-- Flow 3:  
Average throughput: 137.54 Mbit/s  
95th percentile per-packet one-way delay: 85.287 ms  
Loss rate: 12.19%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-05 20:04:53

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

Local clock offset: 1.183 ms

Remote clock offset: 5.59 ms

# Below is generated by plot.py at 2017-12-06 02:29:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.53 Mbit/s

95th percentile per-packet one-way delay: 80.874 ms

Loss rate: 6.69%

-- Flow 1:

Average throughput: 175.18 Mbit/s

95th percentile per-packet one-way delay: 80.647 ms

Loss rate: 4.30%

-- Flow 2:

Average throughput: 160.92 Mbit/s

95th percentile per-packet one-way delay: 80.898 ms

Loss rate: 6.70%

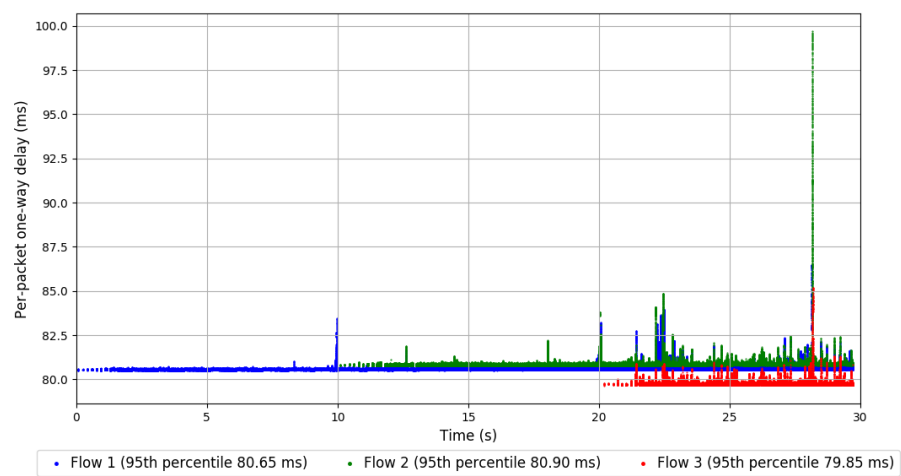
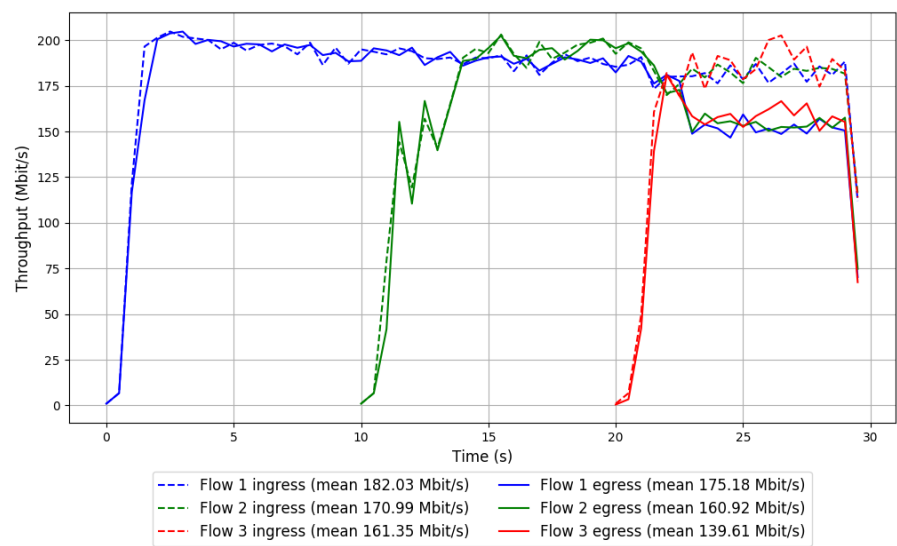
-- Flow 3:

Average throughput: 139.61 Mbit/s

95th percentile per-packet one-way delay: 79.851 ms

Loss rate: 14.97%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-05 20:25:07

End at: 2017-12-05 20:25:38

Local clock offset: 0.873 ms

Remote clock offset: 5.505 ms

# Below is generated by plot.py at 2017-12-06 02:30:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 321.69 Mbit/s

95th percentile per-packet one-way delay: 81.462 ms

Loss rate: 5.78%

-- Flow 1:

Average throughput: 169.50 Mbit/s

95th percentile per-packet one-way delay: 81.470 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 163.82 Mbit/s

95th percentile per-packet one-way delay: 79.983 ms

Loss rate: 5.16%

-- Flow 3:

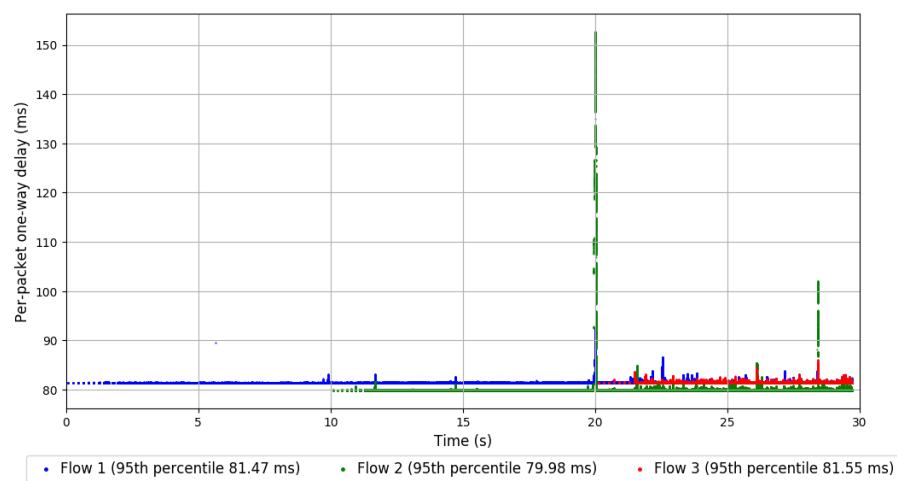
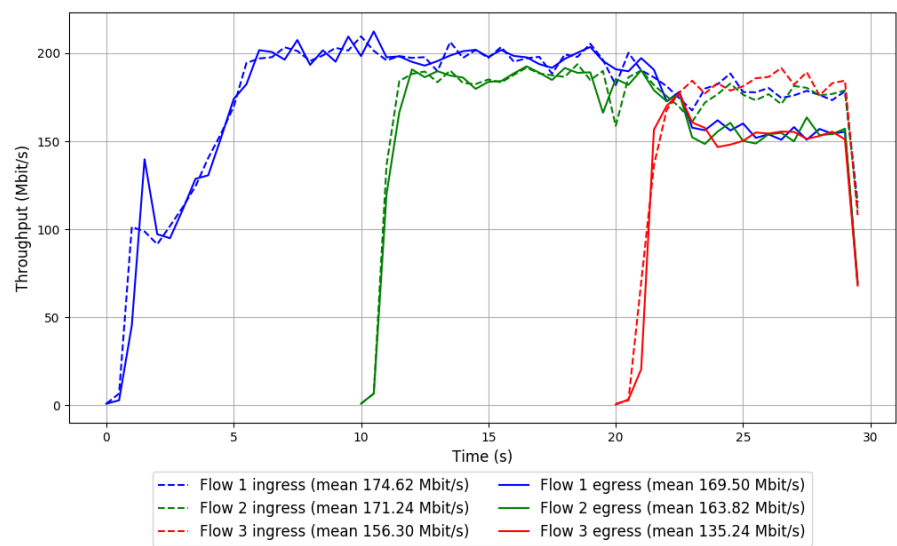
Average throughput: 135.24 Mbit/s

95th percentile per-packet one-way delay: 81.553 ms

Loss rate: 14.98%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-05 20:45:10

End at: 2017-12-05 20:45:40

Local clock offset: 0.477 ms

Remote clock offset: 4.436 ms

# Below is generated by plot.py at 2017-12-06 02:31:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 316.39 Mbit/s

95th percentile per-packet one-way delay: 80.836 ms

Loss rate: 5.42%

-- Flow 1:

Average throughput: 167.89 Mbit/s

95th percentile per-packet one-way delay: 78.760 ms

Loss rate: 2.60%

-- Flow 2:

Average throughput: 161.12 Mbit/s

95th percentile per-packet one-way delay: 79.268 ms

Loss rate: 6.04%

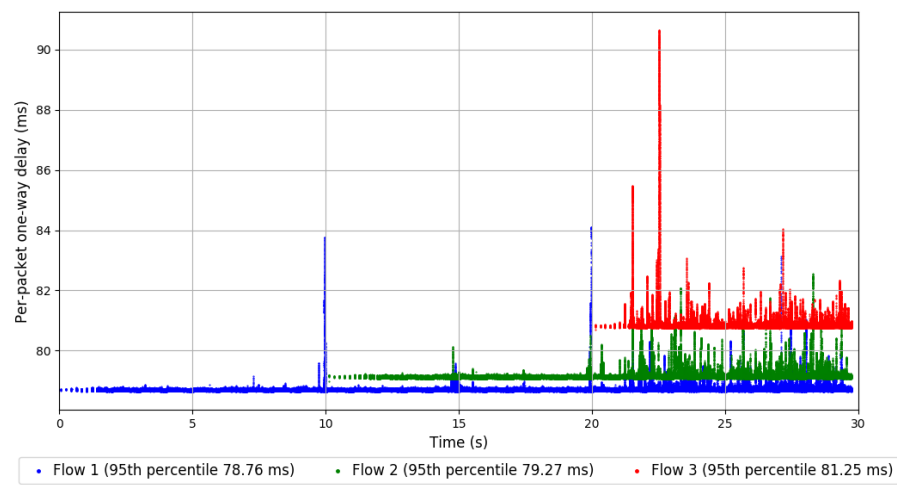
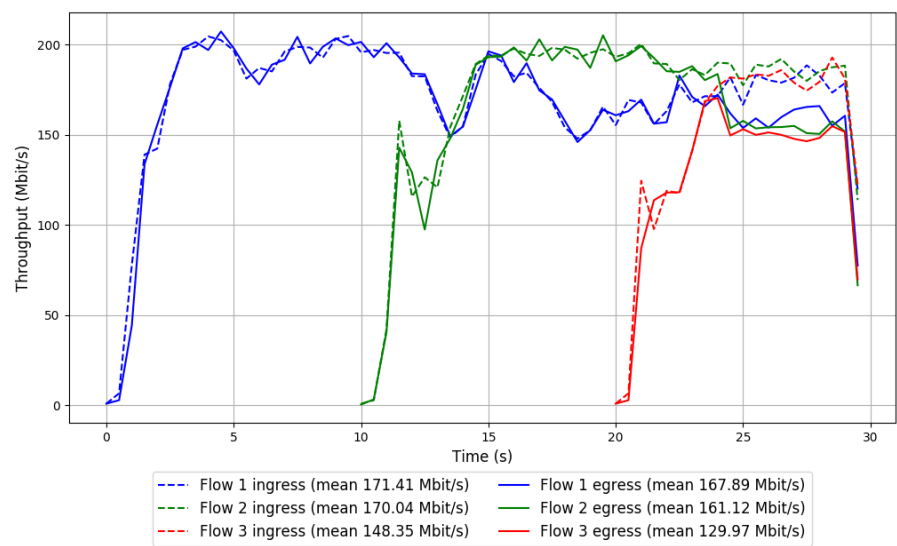
-- Flow 3:

Average throughput: 129.97 Mbit/s

95th percentile per-packet one-way delay: 81.249 ms

Loss rate: 13.91%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-05 21:05:25

End at: 2017-12-05 21:05:55

Local clock offset: 0.188 ms

Remote clock offset: 3.549 ms

# Below is generated by plot.py at 2017-12-06 02:31:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 328.79 Mbit/s

95th percentile per-packet one-way delay: 79.004 ms

Loss rate: 6.39%

-- Flow 1:

Average throughput: 175.68 Mbit/s

95th percentile per-packet one-way delay: 78.990 ms

Loss rate: 3.93%

-- Flow 2:

Average throughput: 160.61 Mbit/s

95th percentile per-packet one-way delay: 79.016 ms

Loss rate: 6.51%

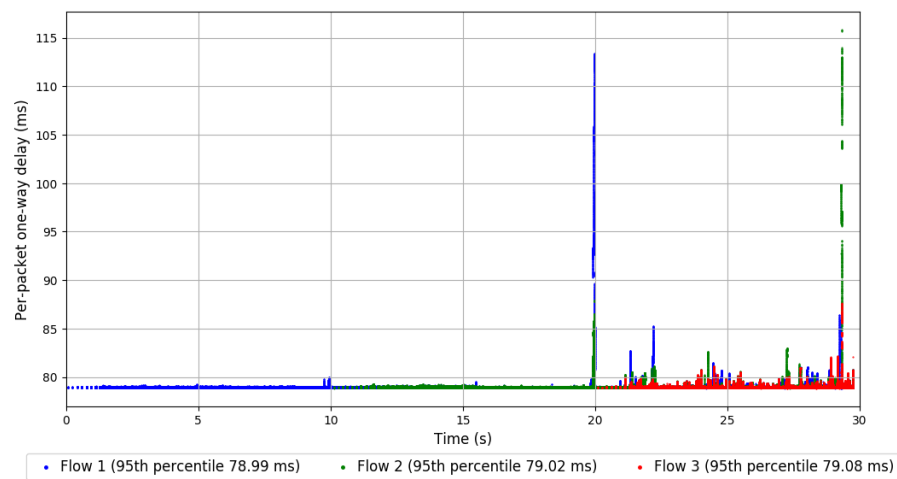
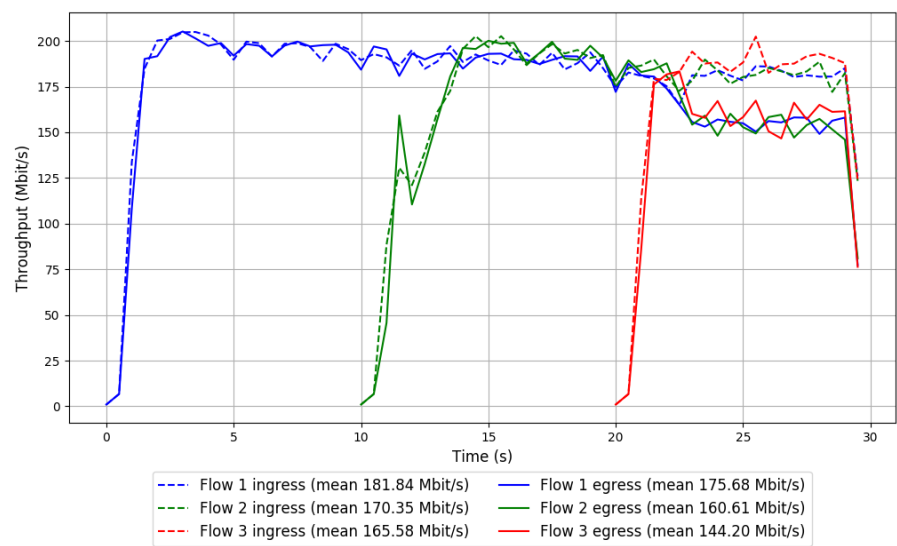
-- Flow 3:

Average throughput: 144.20 Mbit/s

95th percentile per-packet one-way delay: 79.075 ms

Loss rate: 14.36%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-05 21:25:25

End at: 2017-12-05 21:25:55

Local clock offset: 0.021 ms

Remote clock offset: 2.022 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 334.17 Mbit/s

95th percentile per-packet one-way delay: 81.843 ms

Loss rate: 6.16%

-- Flow 1:

Average throughput: 177.29 Mbit/s

95th percentile per-packet one-way delay: 80.365 ms

Loss rate: 4.49%

-- Flow 2:

Average throughput: 170.33 Mbit/s

95th percentile per-packet one-way delay: 81.877 ms

Loss rate: 4.46%

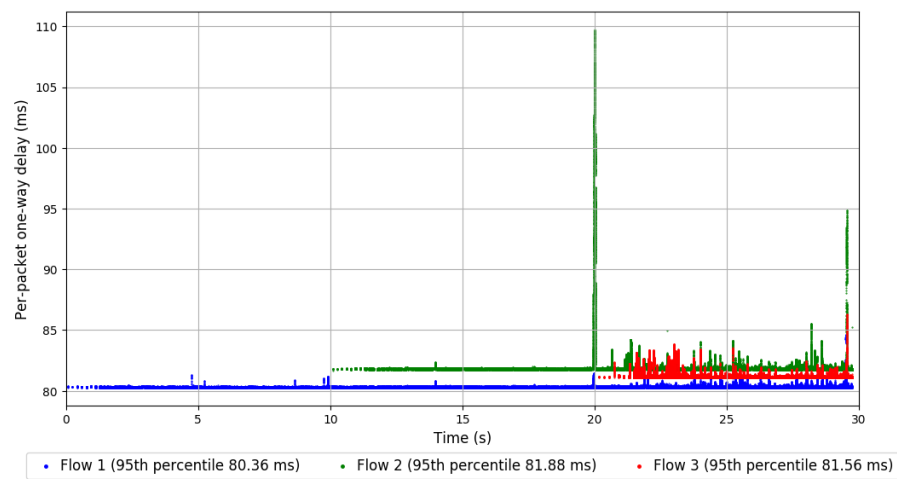
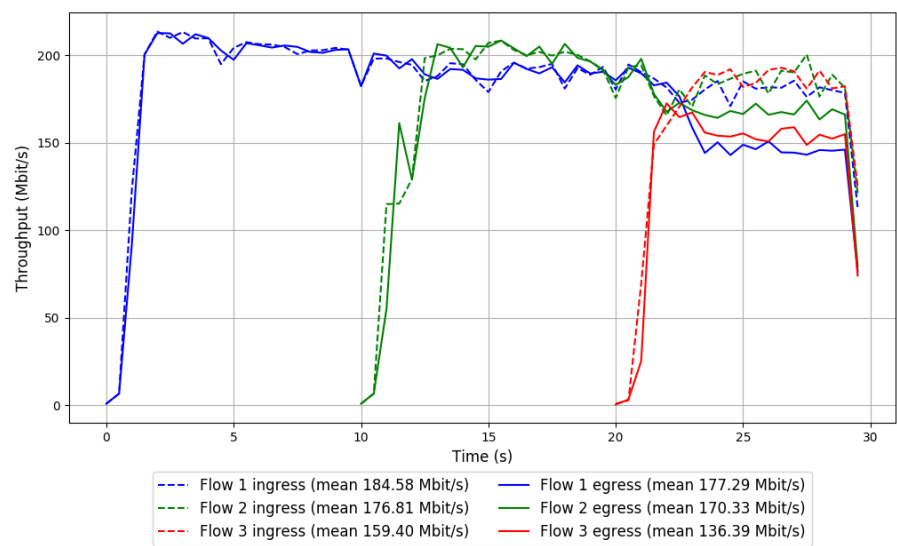
-- Flow 3:

Average throughput: 136.39 Mbit/s

95th percentile per-packet one-way delay: 81.564 ms

Loss rate: 15.91%

Run 8: Report of Indigo — Data Link



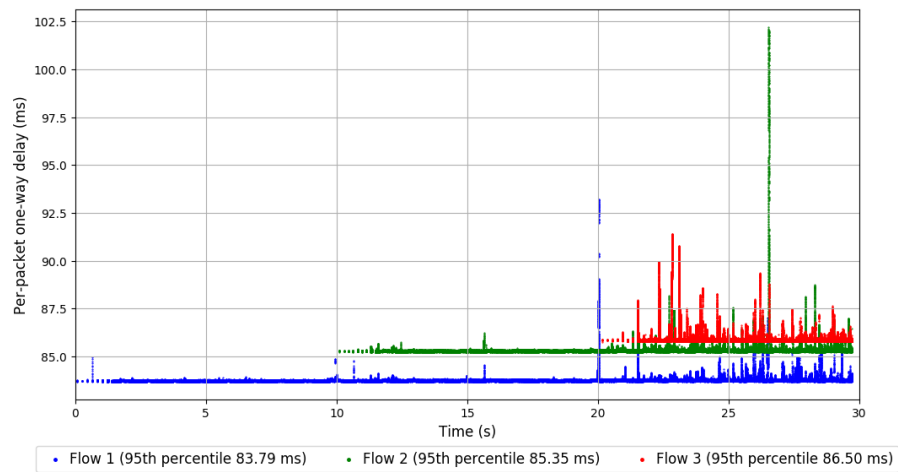
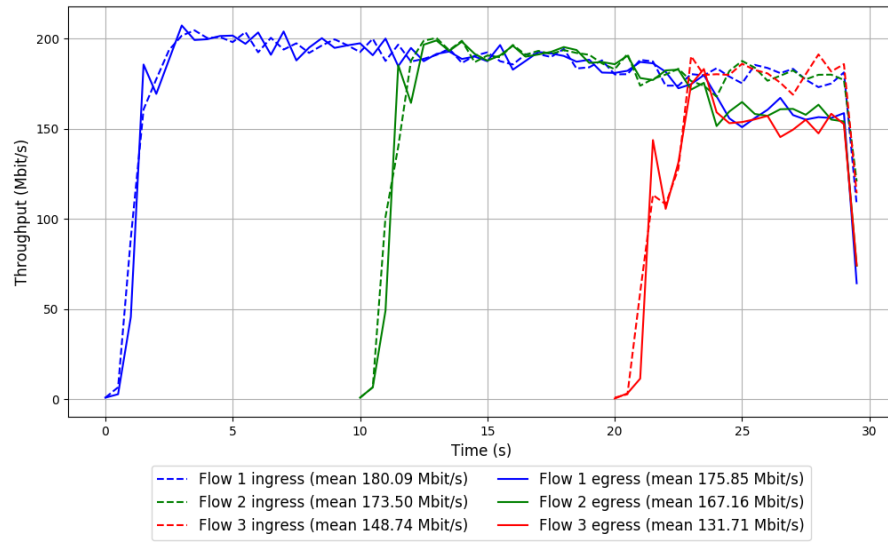
Run 9: Statistics of Indigo

Start at: 2017-12-05 21:45:32  
End at: 2017-12-05 21:46:02  
Local clock offset: -0.429 ms  
Remote clock offset: -3.317 ms

# Below is generated by plot.py at 2017-12-06 02:32:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.85 Mbit/s  
95th percentile per-packet one-way delay: 85.874 ms  
Loss rate: 4.85%  
-- Flow 1:  
Average throughput: 175.85 Mbit/s  
95th percentile per-packet one-way delay: 83.790 ms  
Loss rate: 2.90%  
-- Flow 2:  
Average throughput: 167.16 Mbit/s  
95th percentile per-packet one-way delay: 85.353 ms  
Loss rate: 4.49%  
-- Flow 3:  
Average throughput: 131.71 Mbit/s  
95th percentile per-packet one-way delay: 86.496 ms  
Loss rate: 12.98%



## Run 9: Report of Indigo — Data Link

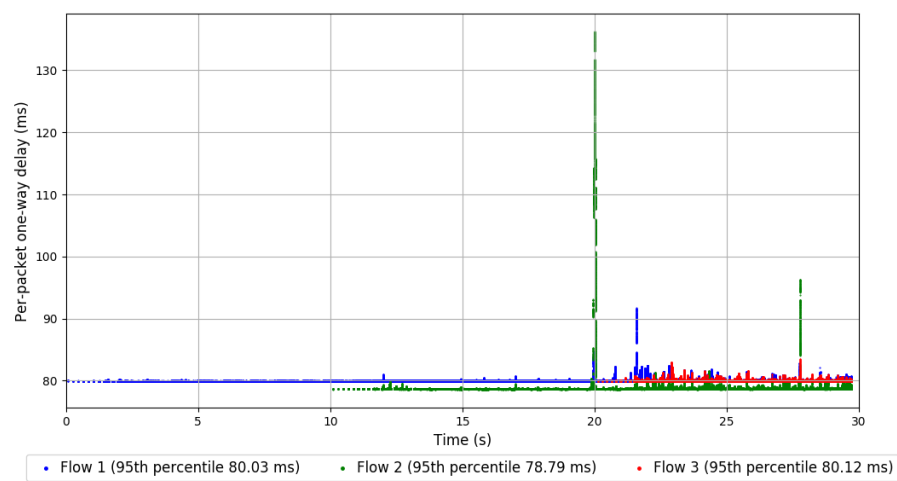
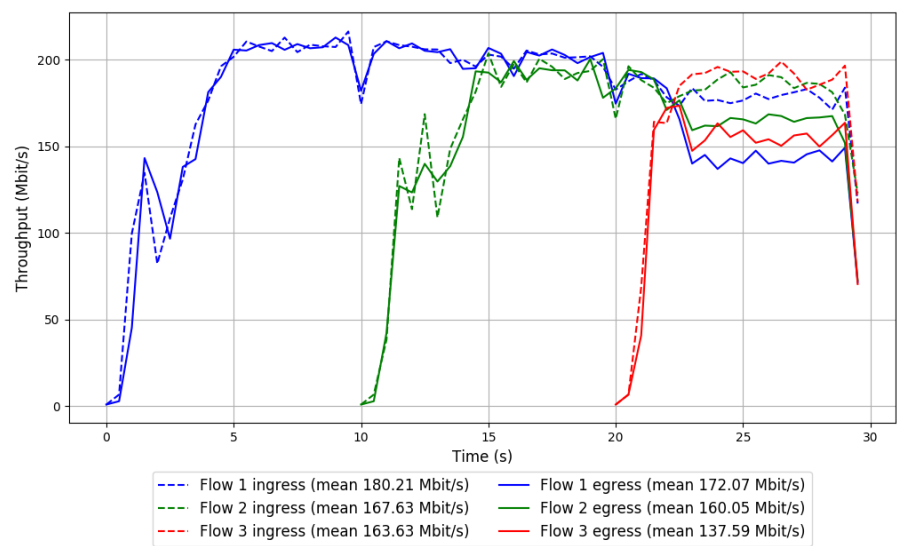


```
Run 10: Statistics of Indigo

Start at: 2017-12-05 22:05:40
End at: 2017-12-05 22:06:10
Local clock offset: -1.153 ms
Remote clock offset: 1.339 ms

# Below is generated by plot.py at 2017-12-06 02:33:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.51 Mbit/s
95th percentile per-packet one-way delay: 80.029 ms
Loss rate: 7.06%
-- Flow 1:
Average throughput: 172.07 Mbit/s
95th percentile per-packet one-way delay: 80.031 ms
Loss rate: 5.05%
-- Flow 2:
Average throughput: 160.05 Mbit/s
95th percentile per-packet one-way delay: 78.794 ms
Loss rate: 5.34%
-- Flow 3:
Average throughput: 137.59 Mbit/s
95th percentile per-packet one-way delay: 80.125 ms
Loss rate: 17.36%
```

Run 10: Report of Indigo — Data Link

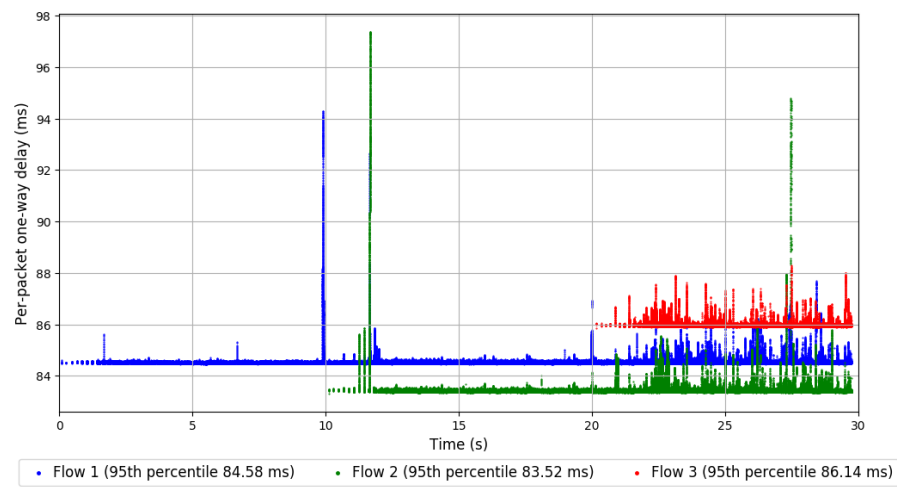
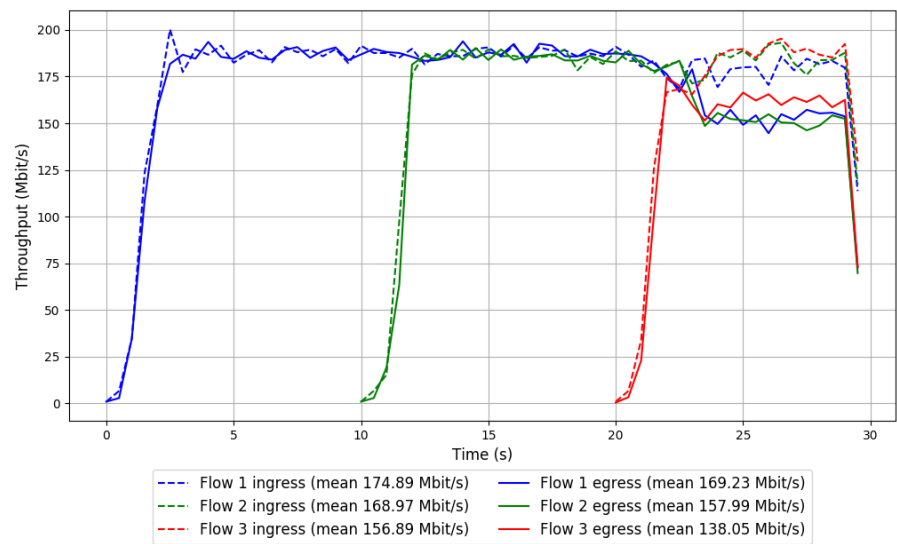


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 18:59:42
End at: 2017-12-05 19:00:12
Local clock offset: 1.215 ms
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2017-12-06 02:34:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.31 Mbit/s
95th percentile per-packet one-way delay: 85.987 ms
Loss rate: 6.42%
-- Flow 1:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 84.585 ms
Loss rate: 3.78%
-- Flow 2:
Average throughput: 157.99 Mbit/s
95th percentile per-packet one-way delay: 83.522 ms
Loss rate: 7.27%
-- Flow 3:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 86.135 ms
Loss rate: 13.54%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 19:19:49

End at: 2017-12-05 19:20:19

Local clock offset: 1.466 ms

Remote clock offset: 3.328 ms

# Below is generated by plot.py at 2017-12-06 02:34:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 322.25 Mbit/s

95th percentile per-packet one-way delay: 80.315 ms

Loss rate: 6.48%

-- Flow 1:

Average throughput: 169.63 Mbit/s

95th percentile per-packet one-way delay: 79.787 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 168.10 Mbit/s

95th percentile per-packet one-way delay: 79.793 ms

Loss rate: 5.63%

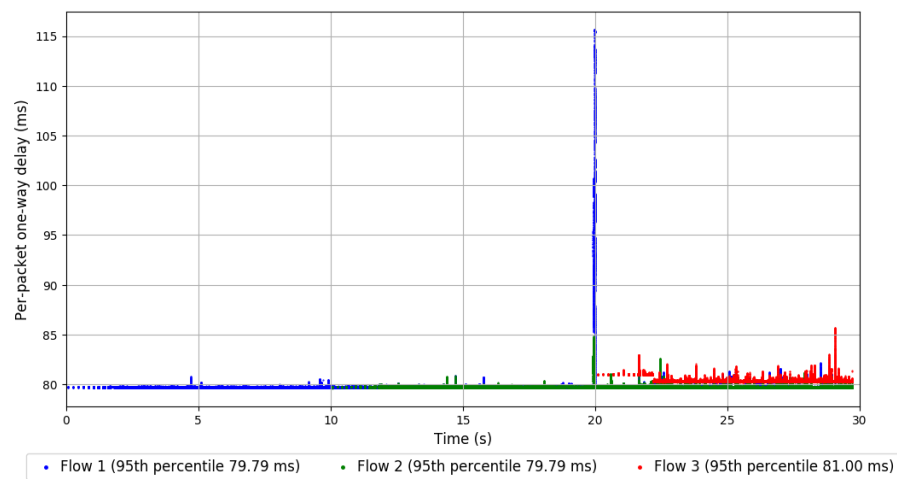
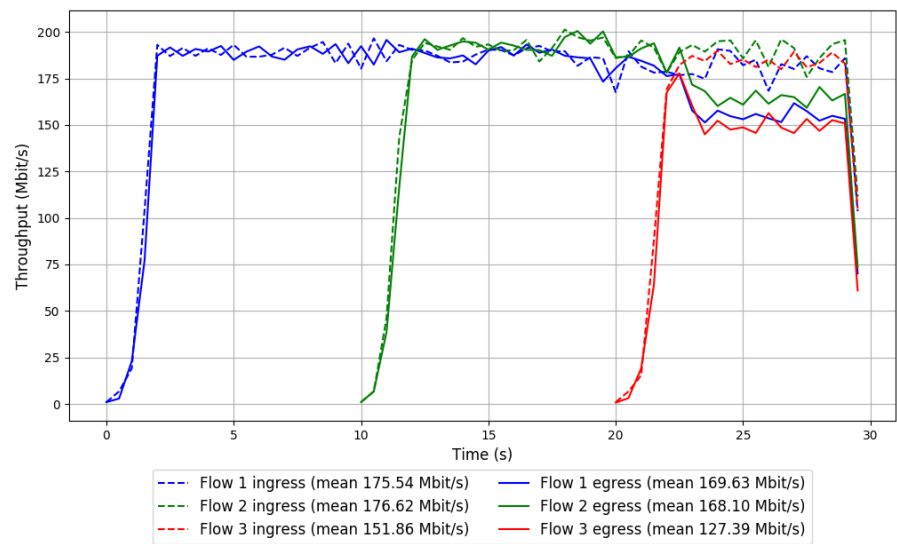
-- Flow 3:

Average throughput: 127.39 Mbit/s

95th percentile per-packet one-way delay: 80.997 ms

Loss rate: 17.58%

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 19:40:07

End at: 2017-12-05 19:40:37

Local clock offset: 1.592 ms

Remote clock offset: 3.509 ms

# Below is generated by plot.py at 2017-12-06 02:34:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.42 Mbit/s

95th percentile per-packet one-way delay: 81.350 ms

Loss rate: 6.23%

-- Flow 1:

Average throughput: 176.52 Mbit/s

95th percentile per-packet one-way delay: 81.371 ms

Loss rate: 4.70%

-- Flow 2:

Average throughput: 161.01 Mbit/s

95th percentile per-packet one-way delay: 78.425 ms

Loss rate: 5.61%

-- Flow 3:

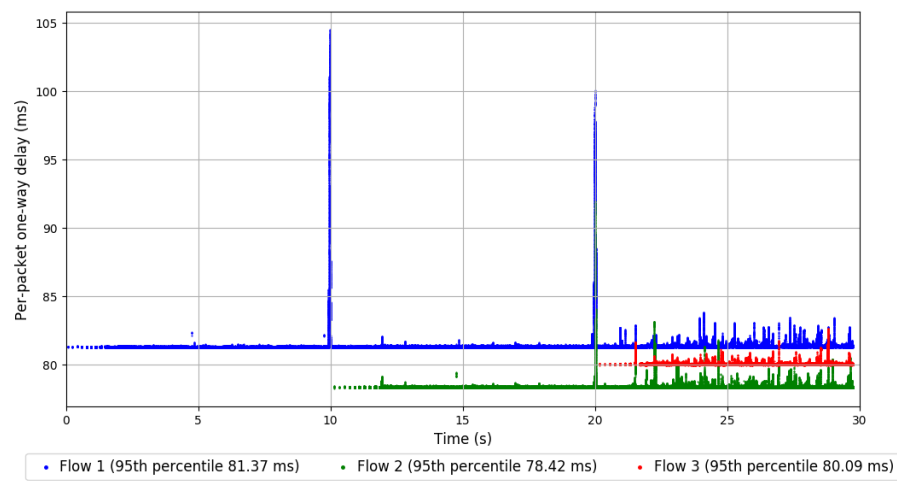
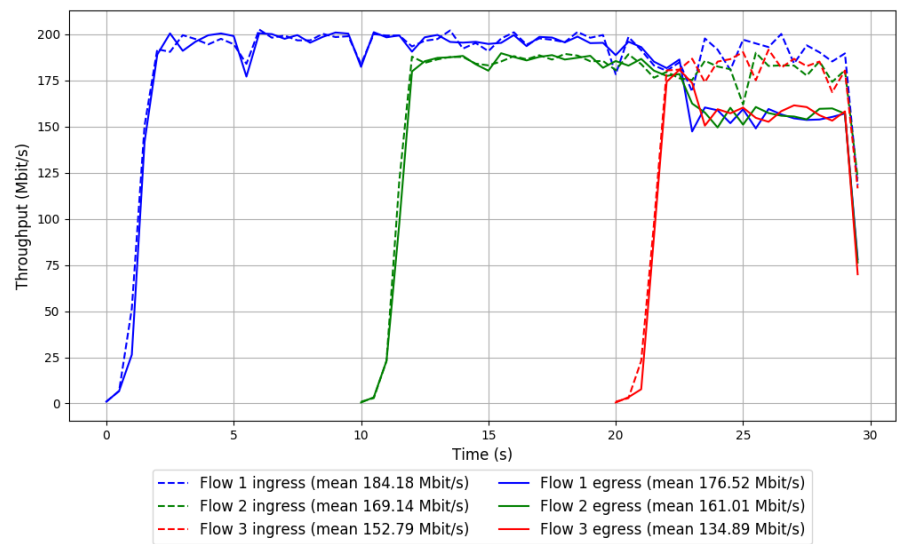
Average throughput: 134.89 Mbit/s

95th percentile per-packet one-way delay: 80.088 ms

Loss rate: 13.24%



Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 20:00:25

End at: 2017-12-05 20:00:55

Local clock offset: 1.334 ms

Remote clock offset: 4.814 ms

# Below is generated by plot.py at 2017-12-06 02:35:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 328.47 Mbit/s

95th percentile per-packet one-way delay: 81.176 ms

Loss rate: 8.08%

-- Flow 1:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 78.442 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 166.59 Mbit/s

95th percentile per-packet one-way delay: 78.783 ms

Loss rate: 6.15%

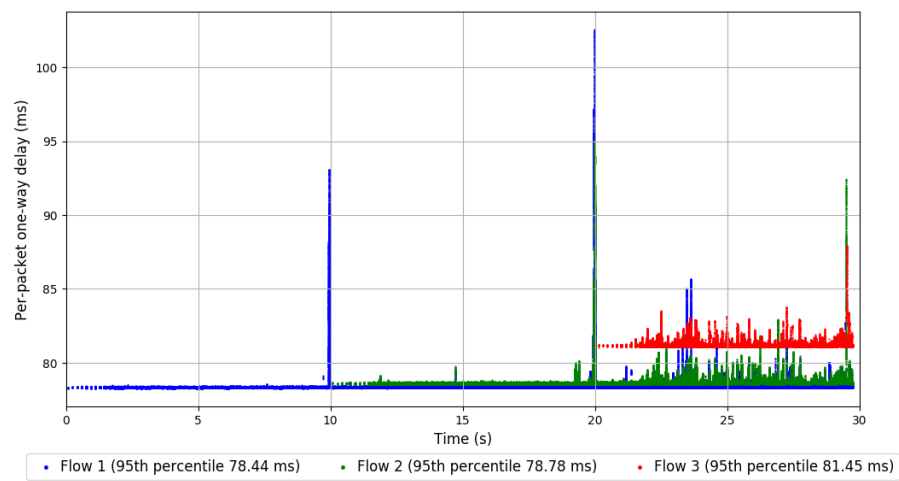
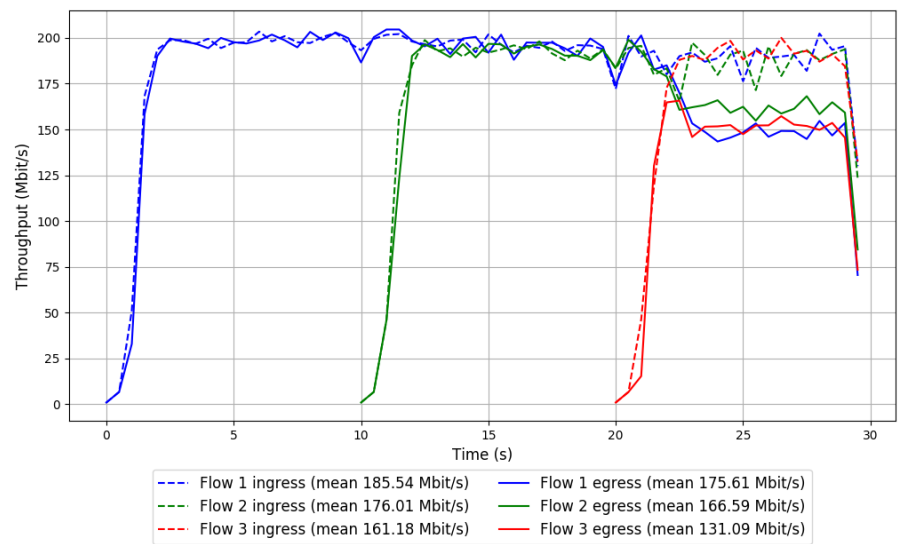
-- Flow 3:

Average throughput: 131.09 Mbit/s

95th percentile per-packet one-way delay: 81.448 ms

Loss rate: 20.07%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 20:20:33

End at: 2017-12-05 20:21:03

Local clock offset: 1.003 ms

Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2017-12-06 02:36:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 330.89 Mbit/s

95th percentile per-packet one-way delay: 86.734 ms

Loss rate: 6.79%

-- Flow 1:

Average throughput: 178.11 Mbit/s

95th percentile per-packet one-way delay: 83.986 ms

Loss rate: 4.38%

-- Flow 2:

Average throughput: 163.98 Mbit/s

95th percentile per-packet one-way delay: 84.045 ms

Loss rate: 6.81%

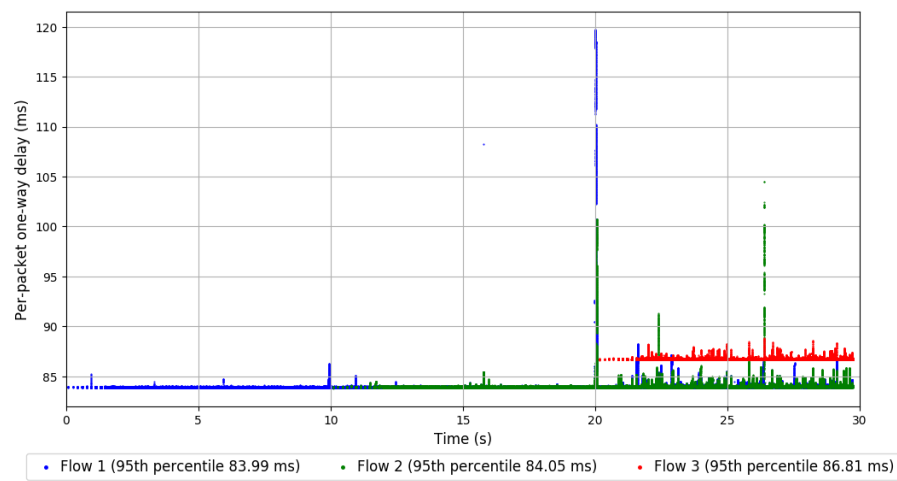
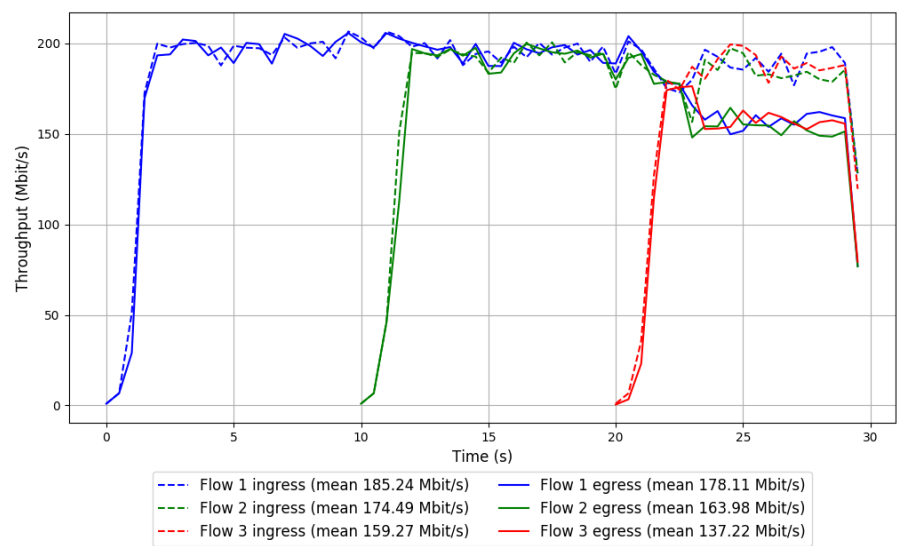
-- Flow 3:

Average throughput: 137.22 Mbit/s

95th percentile per-packet one-way delay: 86.815 ms

Loss rate: 15.35%

Run 5: Report of Indigo-calib — Data Link

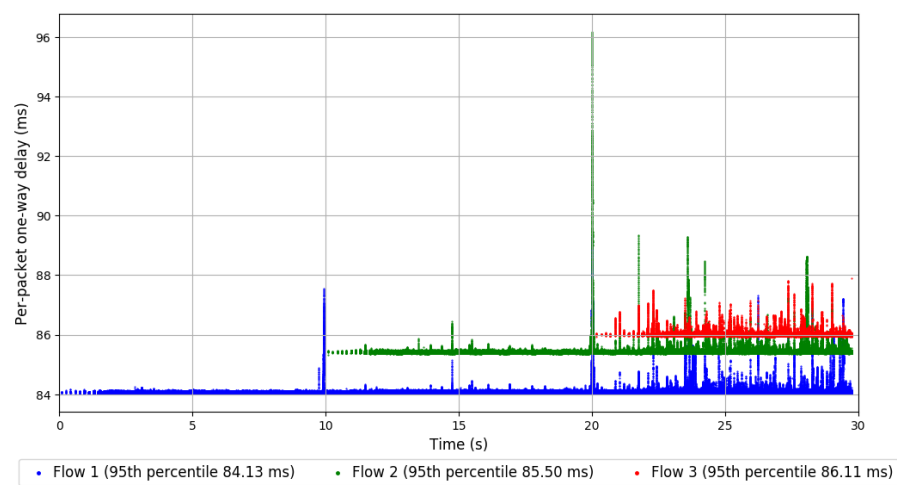
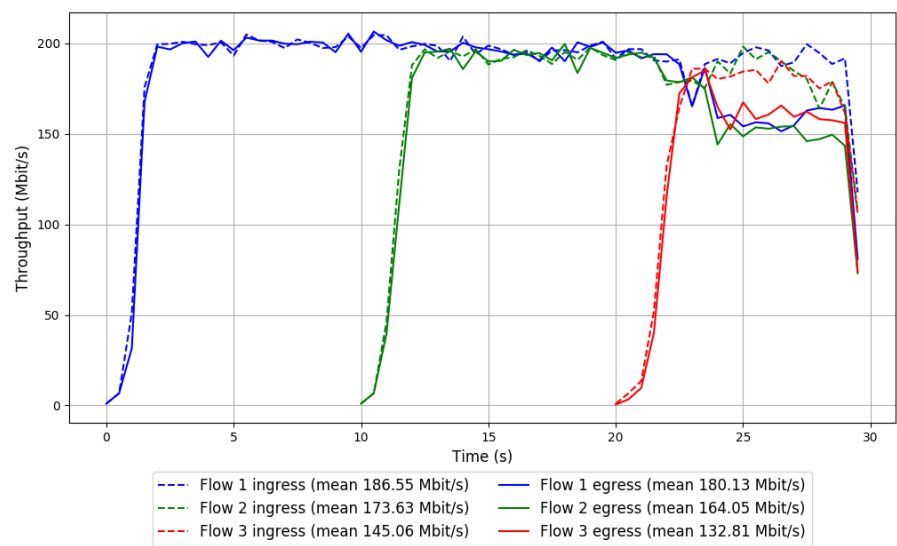


Run 6: Statistics of Indigo-calib

Start at: 2017-12-05 20:40:44  
End at: 2017-12-05 20:41:14  
Local clock offset: 0.579 ms  
Remote clock offset: -0.635 ms

# Below is generated by plot.py at 2017-12-06 02:36:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 331.65 Mbit/s  
95th percentile per-packet one-way delay: 86.019 ms  
Loss rate: 5.57%  
-- Flow 1:  
Average throughput: 180.13 Mbit/s  
95th percentile per-packet one-way delay: 84.134 ms  
Loss rate: 3.98%  
-- Flow 2:  
Average throughput: 164.05 Mbit/s  
95th percentile per-packet one-way delay: 85.495 ms  
Loss rate: 6.32%  
-- Flow 3:  
Average throughput: 132.81 Mbit/s  
95th percentile per-packet one-way delay: 86.106 ms  
Loss rate: 10.01%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-05 21:01:00

End at: 2017-12-05 21:01:30

Local clock offset: 0.213 ms

Remote clock offset: 2.806 ms

# Below is generated by plot.py at 2017-12-06 02:36:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.84 Mbit/s

95th percentile per-packet one-way delay: 82.755 ms

Loss rate: 6.49%

-- Flow 1:

Average throughput: 178.23 Mbit/s

95th percentile per-packet one-way delay: 82.769 ms

Loss rate: 3.82%

-- Flow 2:

Average throughput: 157.26 Mbit/s

95th percentile per-packet one-way delay: 81.154 ms

Loss rate: 7.59%

-- Flow 3:

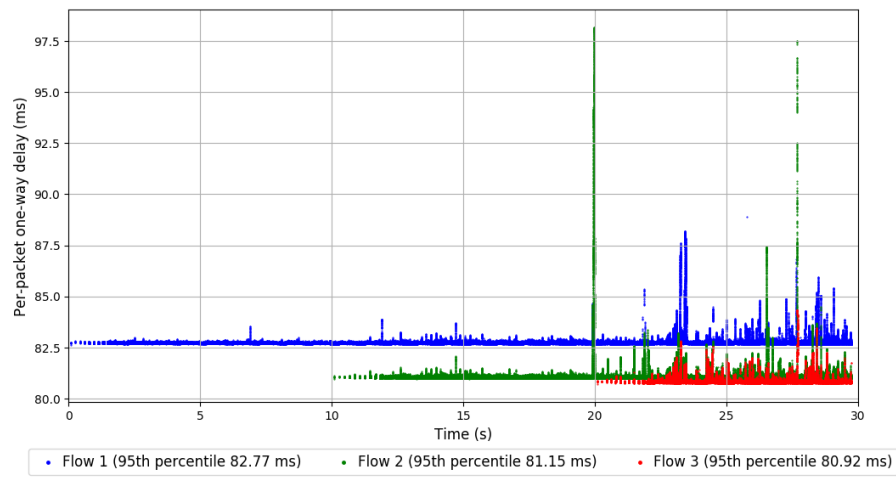
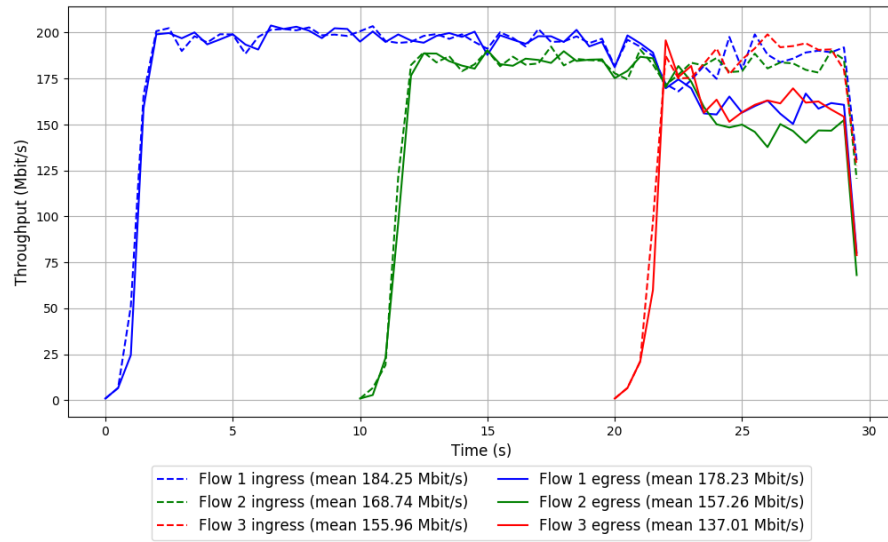
Average throughput: 137.01 Mbit/s

95th percentile per-packet one-way delay: 80.916 ms

Loss rate: 13.66%



## Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 21:21:05

End at: 2017-12-05 21:21:35

Local clock offset: 0.066 ms

Remote clock offset: 3.075 ms

# Below is generated by plot.py at 2017-12-06 02:37:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 322.50 Mbit/s

95th percentile per-packet one-way delay: 81.430 ms

Loss rate: 6.74%

-- Flow 1:

Average throughput: 167.02 Mbit/s

95th percentile per-packet one-way delay: 81.445 ms

Loss rate: 5.08%

-- Flow 2:

Average throughput: 164.20 Mbit/s

95th percentile per-packet one-way delay: 79.857 ms

Loss rate: 7.55%

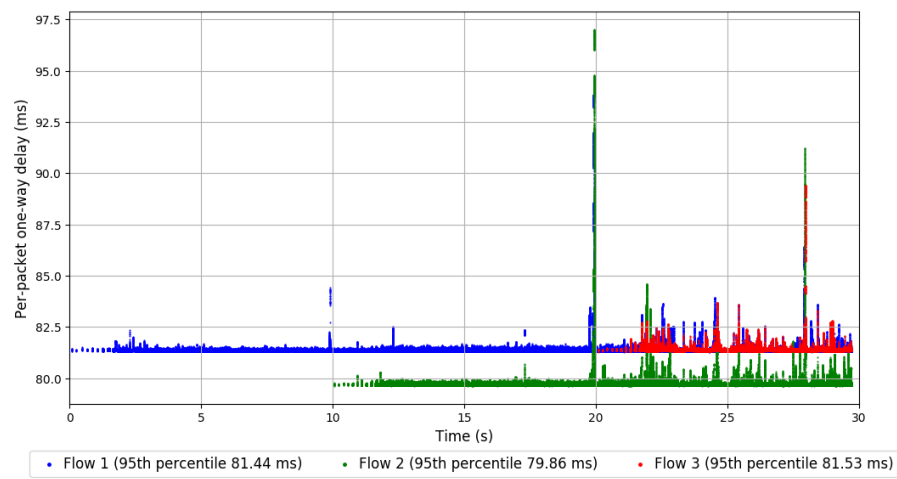
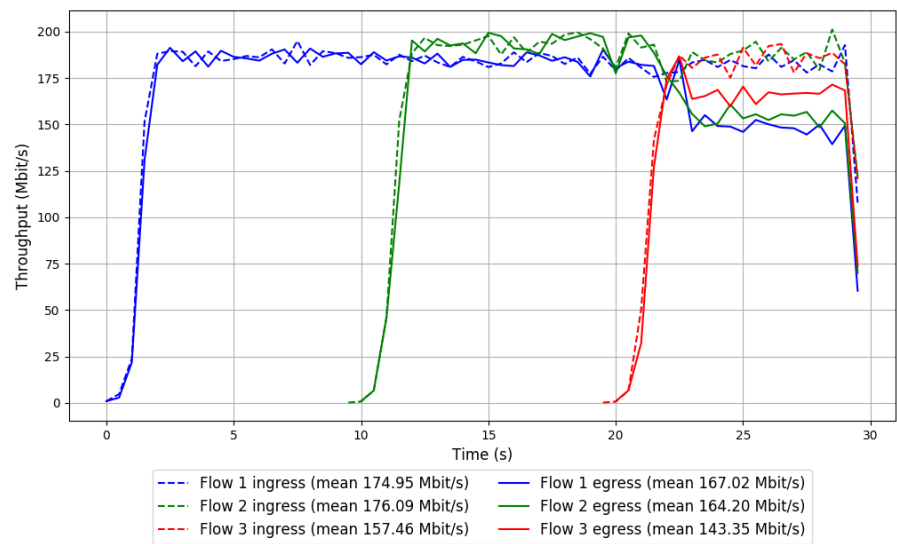
-- Flow 3:

Average throughput: 143.35 Mbit/s

95th percentile per-packet one-way delay: 81.525 ms

Loss rate: 10.54%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-05 21:41:08

End at: 2017-12-05 21:41:38

Local clock offset: -0.232 ms

Remote clock offset: 2.386 ms

# Below is generated by plot.py at 2017-12-06 02:37:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 324.90 Mbit/s

95th percentile per-packet one-way delay: 81.410 ms

Loss rate: 6.65%

-- Flow 1:

Average throughput: 177.26 Mbit/s

95th percentile per-packet one-way delay: 78.660 ms

Loss rate: 4.80%

-- Flow 2:

Average throughput: 154.22 Mbit/s

95th percentile per-packet one-way delay: 81.471 ms

Loss rate: 7.66%

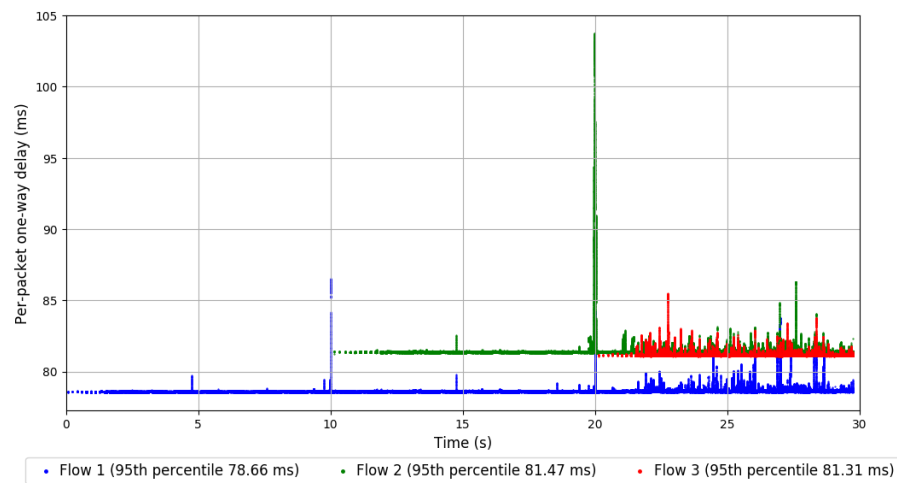
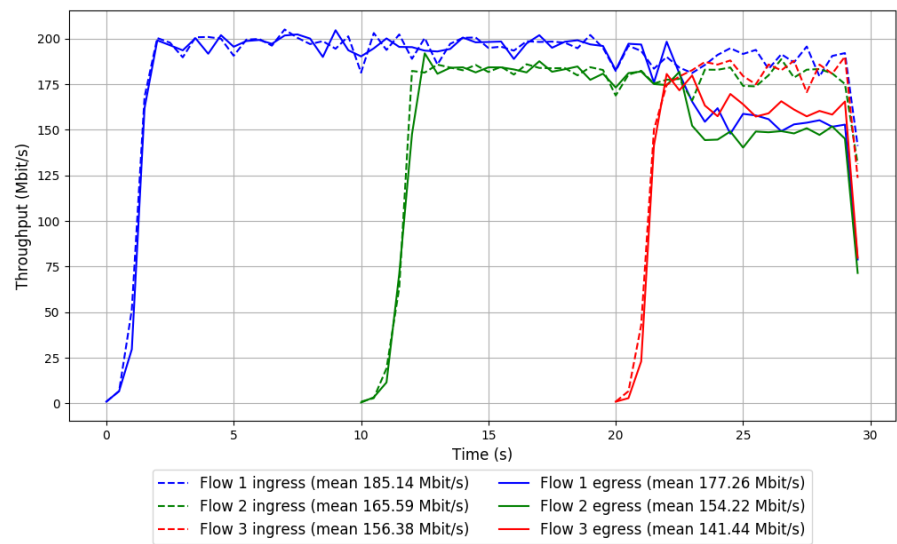
-- Flow 3:

Average throughput: 141.44 Mbit/s

95th percentile per-packet one-way delay: 81.306 ms

Loss rate: 11.13%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-05 22:01:19  
End at: 2017-12-05 22:01:49  
Local clock offset: -0.984 ms  
Remote clock offset: -3.726 ms

# Below is generated by plot.py at 2017-12-06 02:37:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 323.97 Mbit/s  
95th percentile per-packet one-way delay: 87.060 ms  
Loss rate: 7.29%  
-- Flow 1:  
Average throughput: 180.07 Mbit/s  
95th percentile per-packet one-way delay: 85.413 ms  
Loss rate: 3.29%  
-- Flow 2:  
Average throughput: 153.09 Mbit/s  
95th percentile per-packet one-way delay: 87.091 ms  
Loss rate: 8.65%  
-- Flow 3:  
Average throughput: 133.40 Mbit/s  
95th percentile per-packet one-way delay: 84.425 ms  
Loss rate: 18.51%

Run 10: Report of Indigo-calib — Data Link

