

## Pantheon Report

Generated at 2017-12-12 04:30:02 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

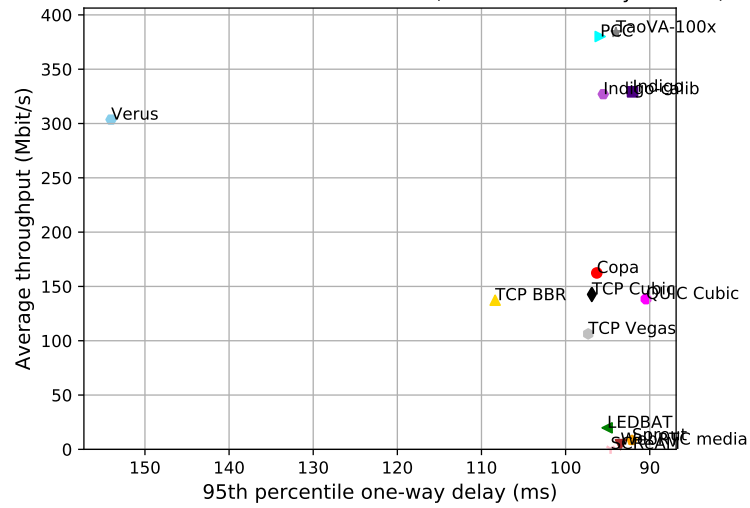
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

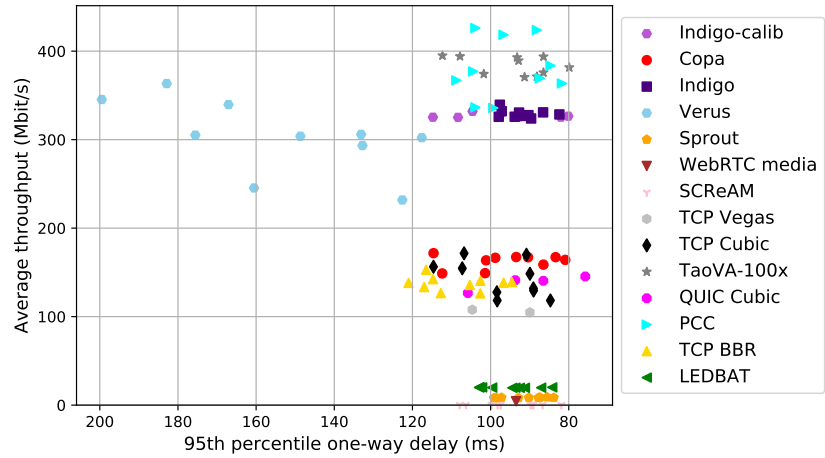
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	71.88	67.07	63.48	108.78	108.28	106.81	0.30	0.39	0.45
TCP Cubic	10	76.05	69.25	61.95	97.82	95.79	96.51	0.04	0.07	0.11
LEDBAT	10	12.76	8.56	4.20	94.66	94.87	94.15	0.01	0.00	0.06
PCC	10	228.40	222.68	11.09	96.13	95.44	94.91	13.14	19.06	9.76
QUIC Cubic	4	72.04	63.47	57.23	89.63	89.50	90.06	0.00	0.00	0.01
SCReAM	10	0.22	0.22	0.22	93.87	94.35	94.19	0.00	0.00	0.00
WebRTC media	1	2.18	1.69	0.50	93.50	91.86	93.62	0.00	0.00	0.63
Sprout	10	4.36	4.24	3.59	91.73	91.89	91.21	0.00	0.00	0.00
TaoVA-100x	10	220.80	198.39	125.90	93.64	93.19	93.17	1.52	2.59	6.37
TCP Vegas	2	43.99	71.72	43.93	97.39	95.08	99.52	0.04	0.01	0.04
Verus	10	188.87	133.38	81.26	150.06	141.78	139.57	6.34	7.46	12.16
Copa	10	88.43	83.04	72.91	95.76	95.43	129.40	0.00	0.00	0.00
Indigo	10	173.05	163.49	139.86	91.64	91.68	91.69	0.94	1.51	3.58
Indigo-calib	10	174.36	162.81	137.64	94.94	94.83	95.26	1.74	2.77	6.39

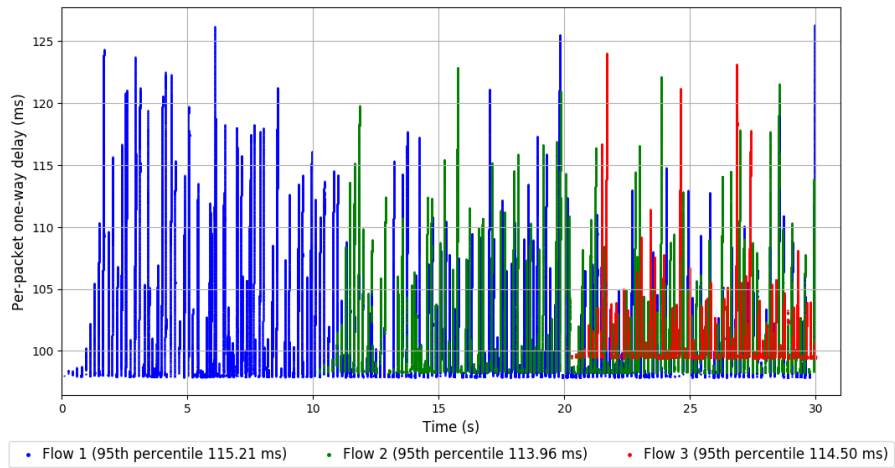
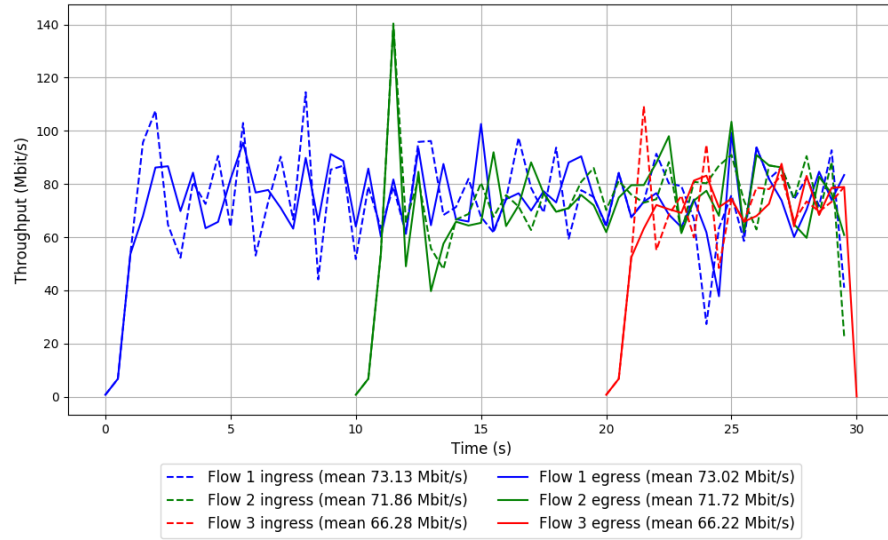
Run 1: Statistics of TCP BBR

Start at: 2017-12-11 23:32:42  
End at: 2017-12-11 23:33:12  
Local clock offset: -1.603 ms  
Remote clock offset: 14.075 ms

# Below is generated by plot.py at 2017-12-12 03:39:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 142.34 Mbit/s  
95th percentile per-packet one-way delay: 114.731 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 73.02 Mbit/s  
95th percentile per-packet one-way delay: 115.212 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 71.72 Mbit/s  
95th percentile per-packet one-way delay: 113.958 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 66.22 Mbit/s  
95th percentile per-packet one-way delay: 114.497 ms  
Loss rate: 0.09%



# Run 1: Report of TCP BBR — Data Link

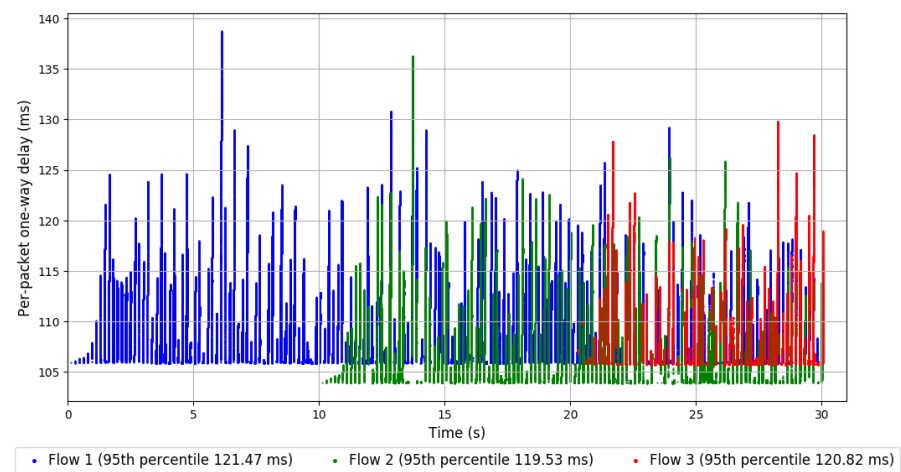
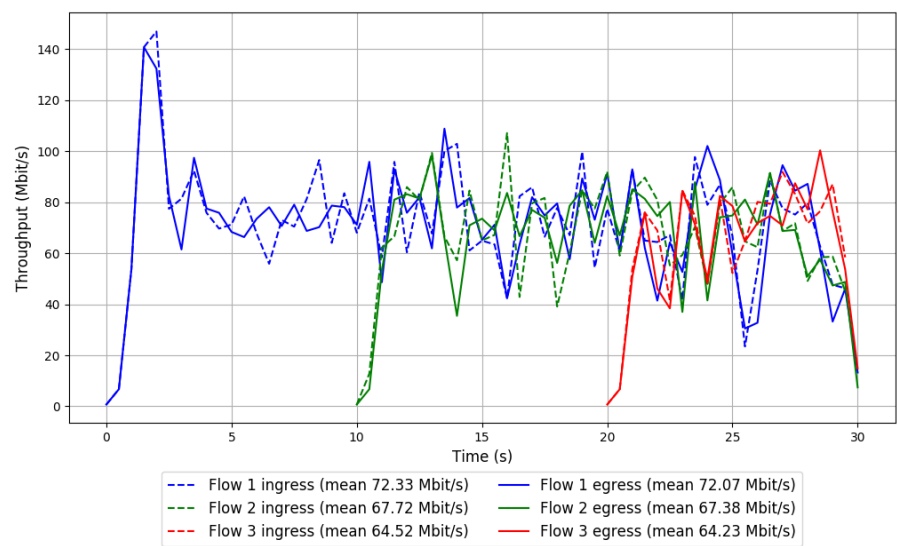


Run 2: Statistics of TCP BBR

Start at: 2017-12-11 23:52:51  
End at: 2017-12-11 23:53:21  
Local clock offset: -2.16 ms  
Remote clock offset: 20.331 ms

# Below is generated by plot.py at 2017-12-12 03:39:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.13 Mbit/s  
95th percentile per-packet one-way delay: 120.998 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 72.07 Mbit/s  
95th percentile per-packet one-way delay: 121.465 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 67.38 Mbit/s  
95th percentile per-packet one-way delay: 119.528 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 64.23 Mbit/s  
95th percentile per-packet one-way delay: 120.822 ms  
Loss rate: 0.33%

Run 2: Report of TCP BBR — Data Link

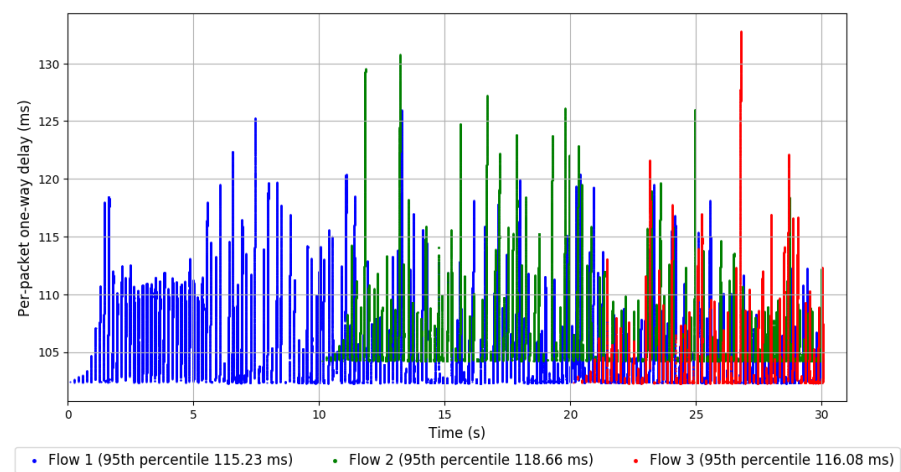
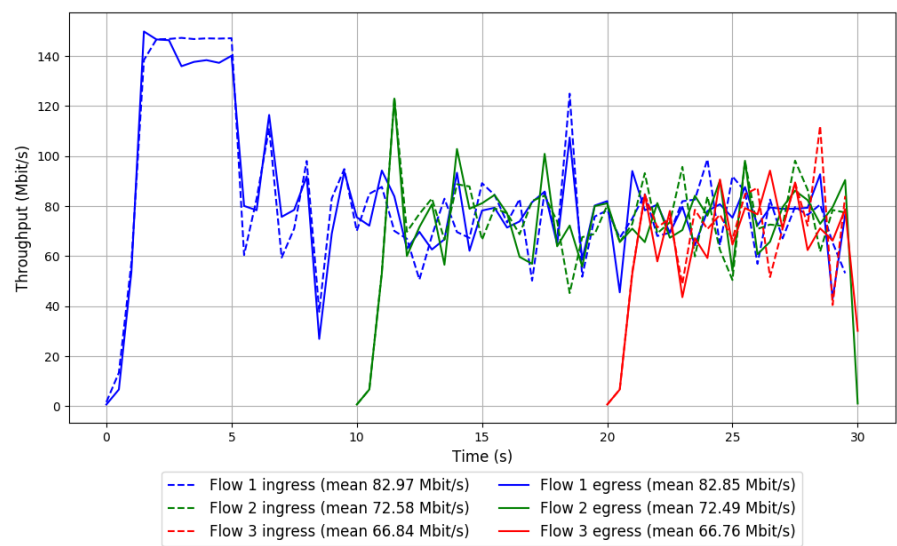


Run 3: Statistics of TCP BBR

Start at: 2017-12-12 00:13:05  
End at: 2017-12-12 00:13:35  
Local clock offset: -2.37 ms  
Remote clock offset: 18.156 ms

# Below is generated by plot.py at 2017-12-12 03:39:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 152.95 Mbit/s  
95th percentile per-packet one-way delay: 116.497 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 82.85 Mbit/s  
95th percentile per-packet one-way delay: 115.231 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 72.49 Mbit/s  
95th percentile per-packet one-way delay: 118.659 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 66.76 Mbit/s  
95th percentile per-packet one-way delay: 116.079 ms  
Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-12 00:33:04

End at: 2017-12-12 00:33:34

Local clock offset: -2.843 ms

Remote clock offset: 1.235 ms

# Below is generated by plot.py at 2017-12-12 03:39:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.50 Mbit/s

95th percentile per-packet one-way delay: 102.606 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 105.423 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 65.16 Mbit/s

95th percentile per-packet one-way delay: 100.105 ms

Loss rate: 0.19%

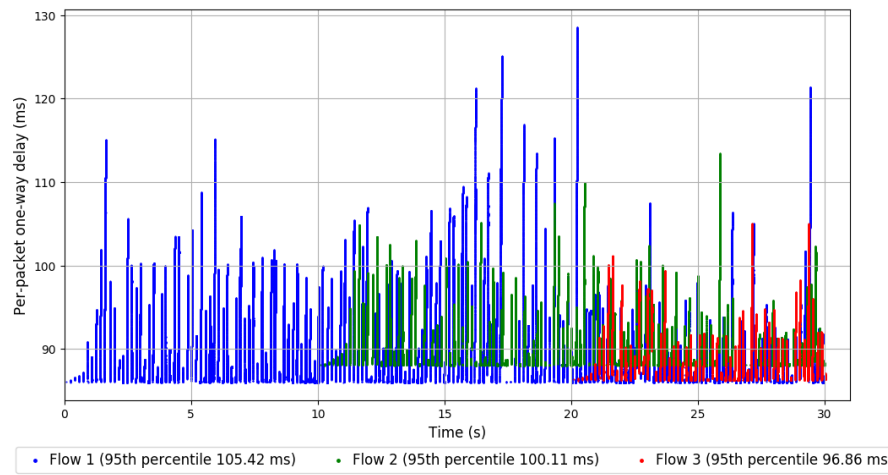
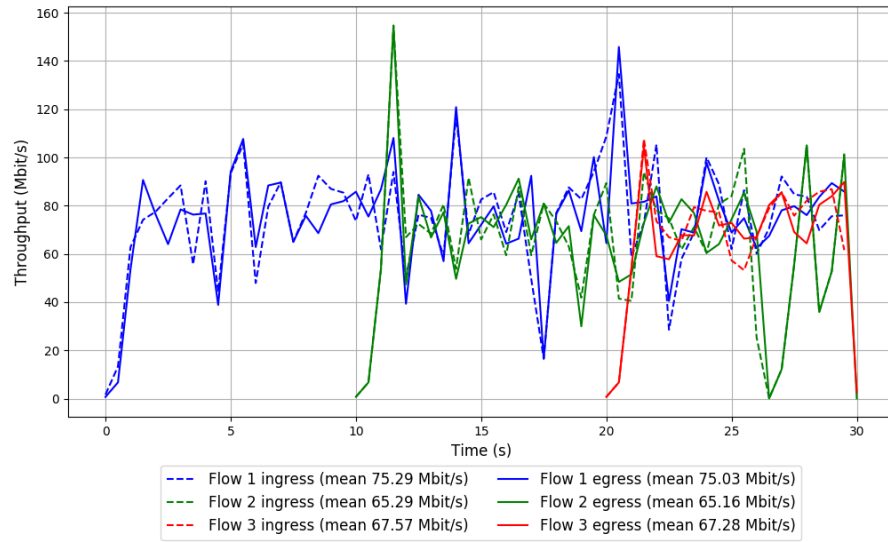
-- Flow 3:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 96.863 ms

Loss rate: 0.43%

#### Run 4: Report of TCP BBR — Data Link



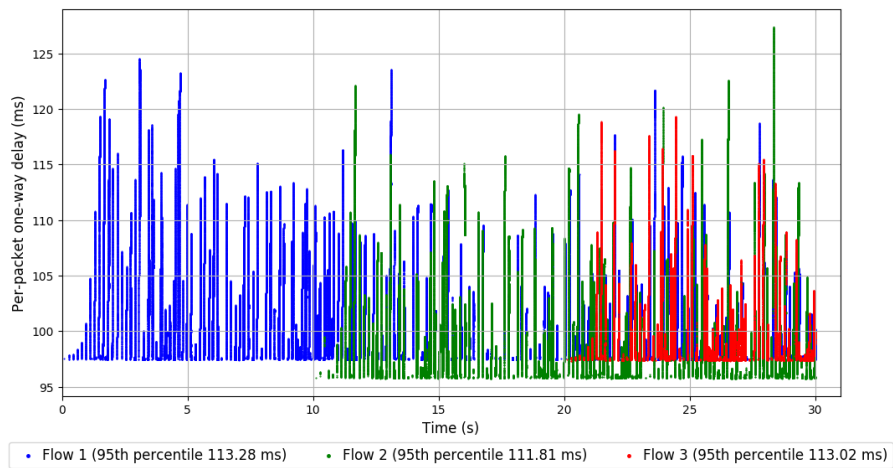
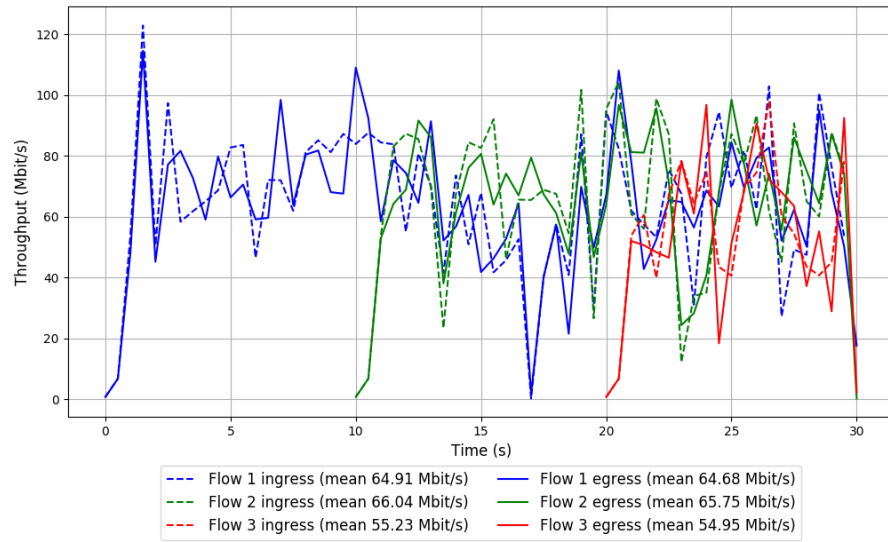
Run 5: Statistics of TCP BBR

Start at: 2017-12-12 00:53:03  
End at: 2017-12-12 00:53:33  
Local clock offset: -3.561 ms  
Remote clock offset: 10.225 ms

# Below is generated by plot.py at 2017-12-12 03:39:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.61 Mbit/s  
95th percentile per-packet one-way delay: 112.742 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 64.68 Mbit/s  
95th percentile per-packet one-way delay: 113.277 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 65.75 Mbit/s  
95th percentile per-packet one-way delay: 111.808 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 54.95 Mbit/s  
95th percentile per-packet one-way delay: 113.018 ms  
Loss rate: 0.50%



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

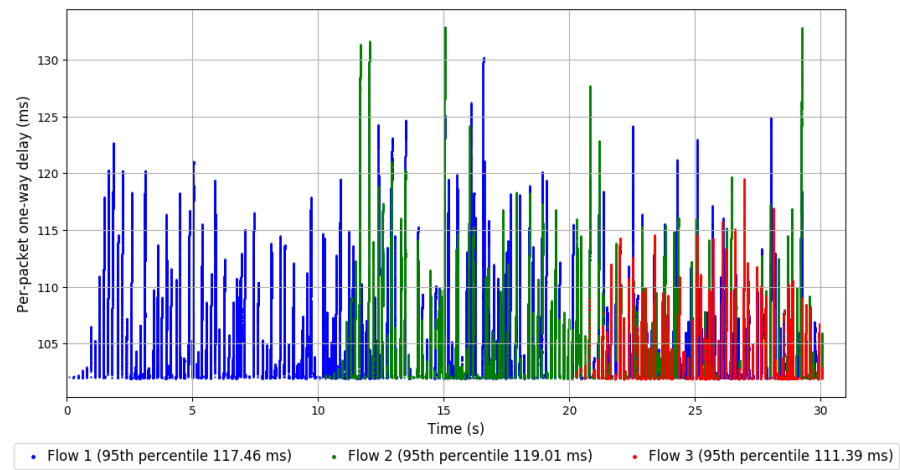
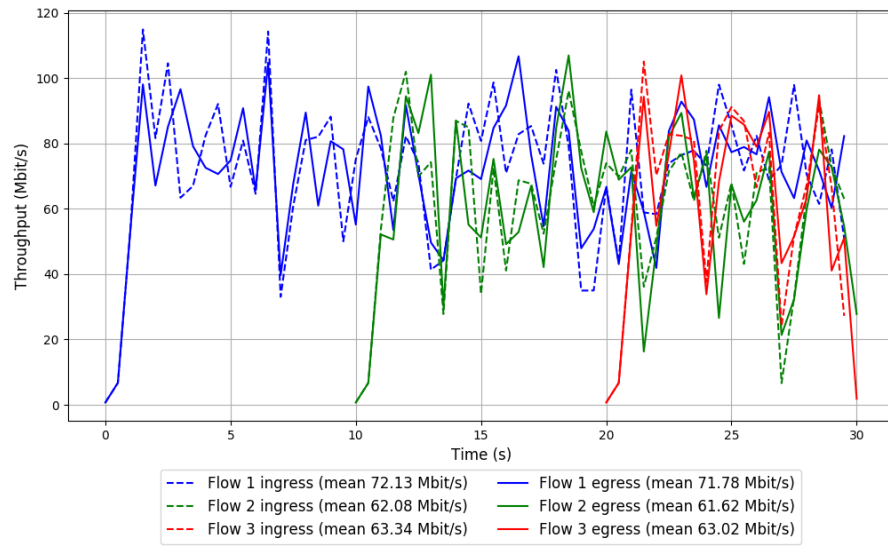


Run 6: Statistics of TCP BBR

Start at: 2017-12-12 01:13:05  
End at: 2017-12-12 01:13:35  
Local clock offset: -3.033 ms  
Remote clock offset: 14.061 ms

# Below is generated by plot.py at 2017-12-12 03:39:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 133.44 Mbit/s  
95th percentile per-packet one-way delay: 116.997 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 71.78 Mbit/s  
95th percentile per-packet one-way delay: 117.464 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 61.62 Mbit/s  
95th percentile per-packet one-way delay: 119.013 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 63.02 Mbit/s  
95th percentile per-packet one-way delay: 111.395 ms  
Loss rate: 0.51%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-12 01:33:33

End at: 2017-12-12 01:34:03

Local clock offset: -2.664 ms

Remote clock offset: 1.922 ms

# Below is generated by plot.py at 2017-12-12 03:39:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 135.75 Mbit/s

95th percentile per-packet one-way delay: 105.316 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 72.00 Mbit/s

95th percentile per-packet one-way delay: 105.529 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 65.62 Mbit/s

95th percentile per-packet one-way delay: 105.022 ms

Loss rate: 0.56%

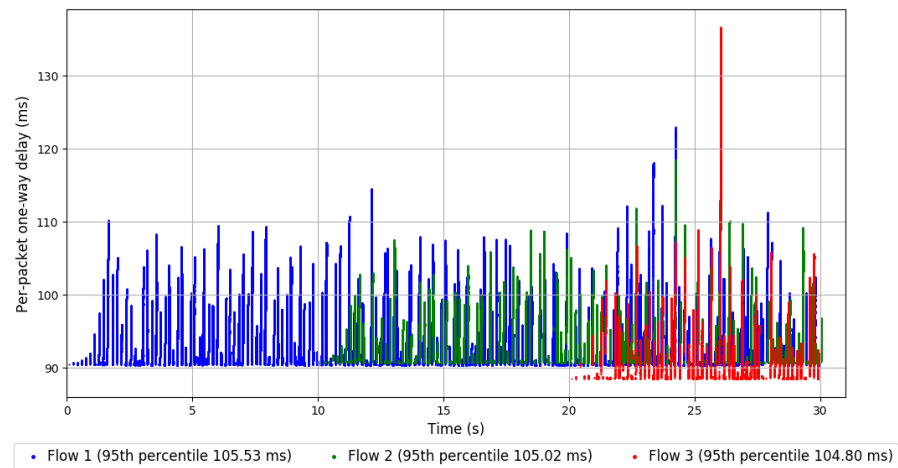
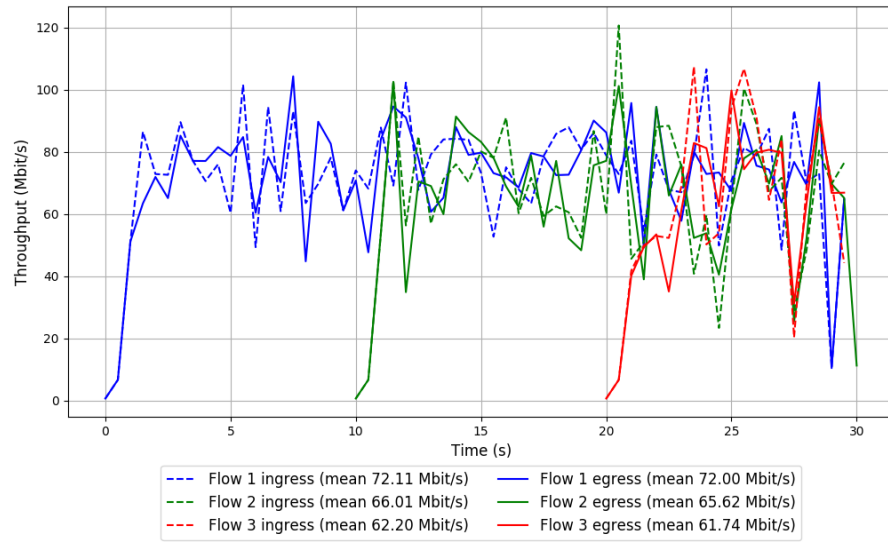
-- Flow 3:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 104.802 ms

Loss rate: 0.72%

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

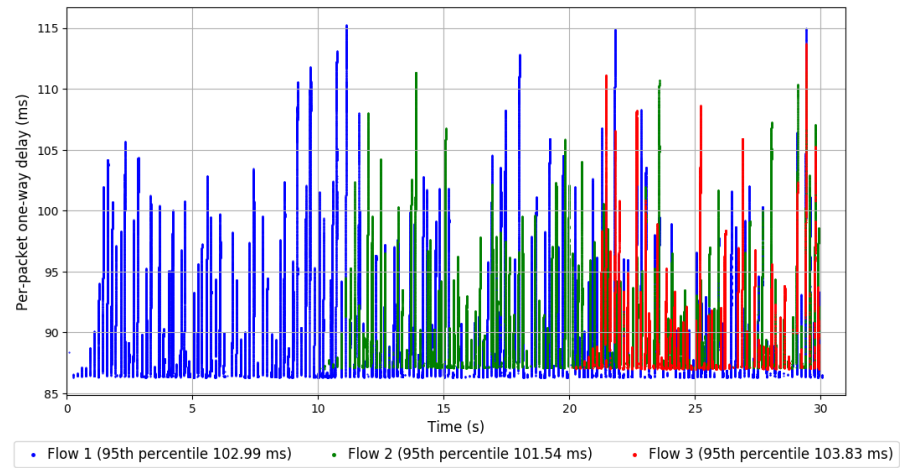
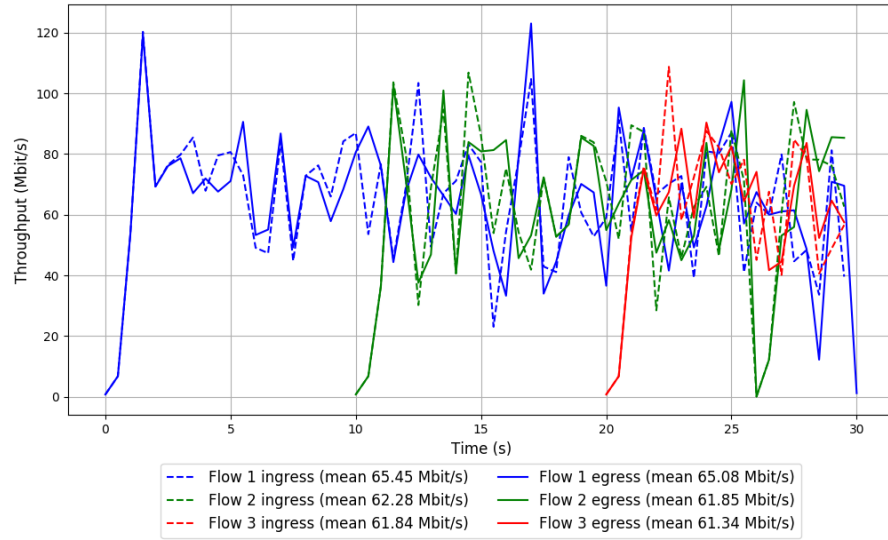


Run 8: Statistics of TCP BBR

Start at: 2017-12-12 01:53:37  
End at: 2017-12-12 01:54:07  
Local clock offset: -3.267 ms  
Remote clock offset: -0.662 ms

# Below is generated by plot.py at 2017-12-12 03:39:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.27 Mbit/s  
95th percentile per-packet one-way delay: 102.643 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 65.08 Mbit/s  
95th percentile per-packet one-way delay: 102.993 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 61.85 Mbit/s  
95th percentile per-packet one-way delay: 101.538 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 61.34 Mbit/s  
95th percentile per-packet one-way delay: 103.831 ms  
Loss rate: 0.81%

# Run 8: Report of TCP BBR — Data Link



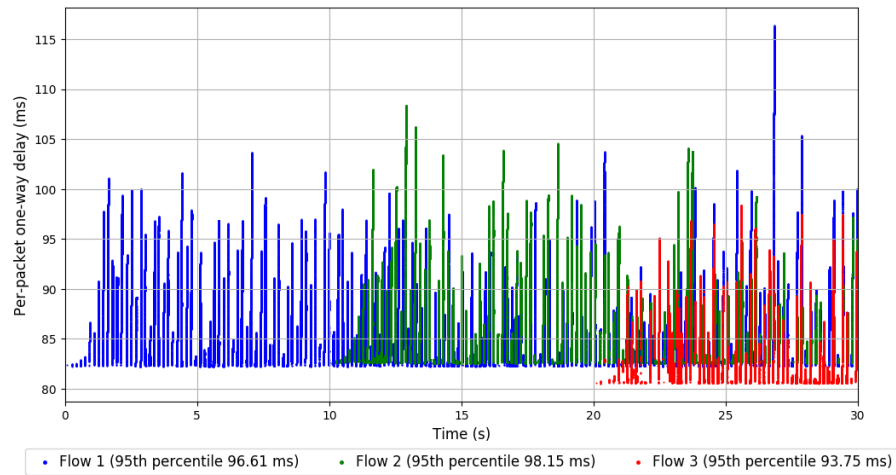
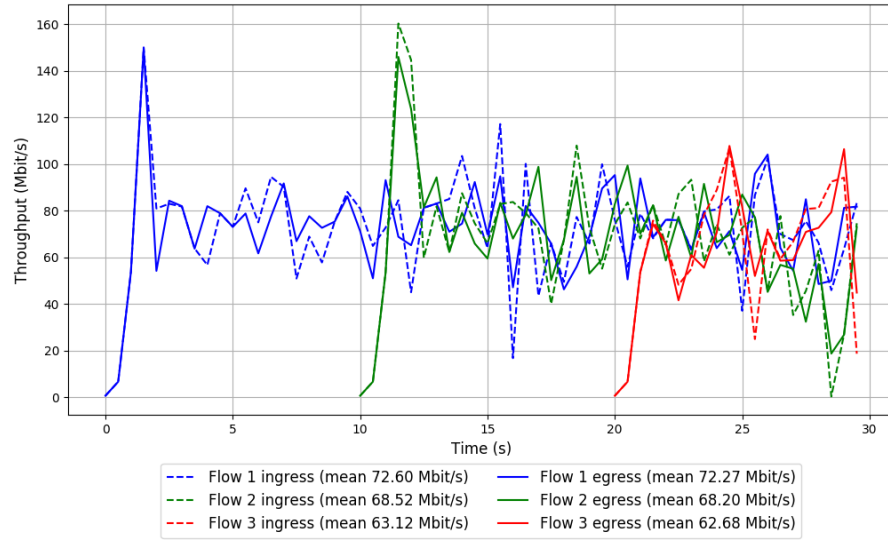
Run 9: Statistics of TCP BBR

Start at: 2017-12-12 02:13:47  
End at: 2017-12-12 02:14:17  
Local clock offset: -3.137 ms  
Remote clock offset: -7.602 ms

# Below is generated by plot.py at 2017-12-12 03:41:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.29 Mbit/s  
95th percentile per-packet one-way delay: 96.680 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 72.27 Mbit/s  
95th percentile per-packet one-way delay: 96.606 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 68.20 Mbit/s  
95th percentile per-packet one-way delay: 98.147 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 62.68 Mbit/s  
95th percentile per-packet one-way delay: 93.747 ms  
Loss rate: 0.57%



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

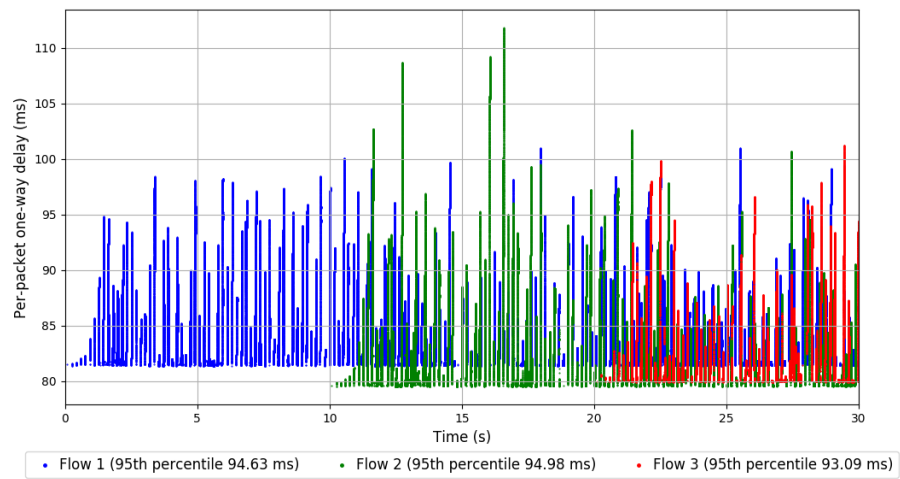
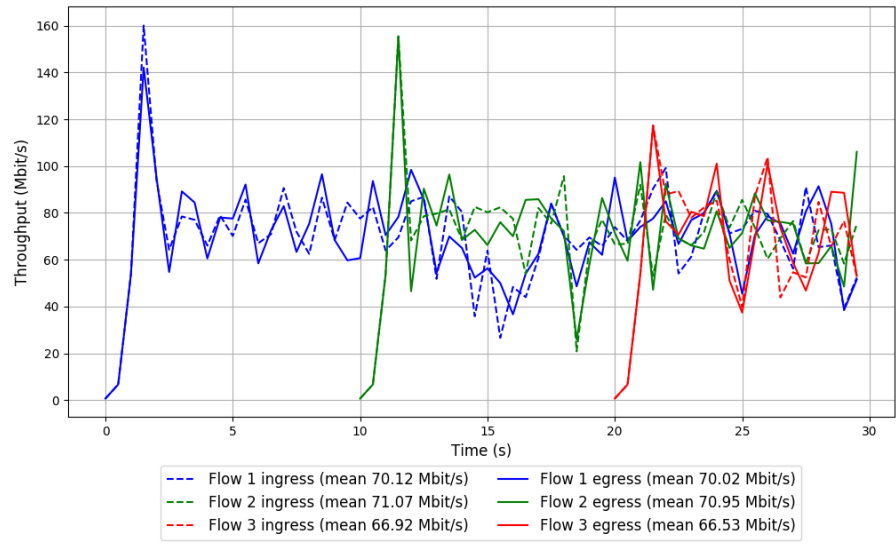


Run 10: Statistics of TCP BBR

Start at: 2017-12-12 02:33:55  
End at: 2017-12-12 02:34:25  
Local clock offset: -2.299 ms  
Remote clock offset: -9.146 ms

# Below is generated by plot.py at 2017-12-12 03:41:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 139.01 Mbit/s  
95th percentile per-packet one-way delay: 94.536 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 70.02 Mbit/s  
95th percentile per-packet one-way delay: 94.632 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 70.95 Mbit/s  
95th percentile per-packet one-way delay: 94.984 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 66.53 Mbit/s  
95th percentile per-packet one-way delay: 93.095 ms  
Loss rate: 0.44%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 23:23:30

End at: 2017-12-11 23:24:00

Local clock offset: -1.096 ms

Remote clock offset: 1.12 ms

# Below is generated by plot.py at 2017-12-12 03:41:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 148.47 Mbit/s

95th percentile per-packet one-way delay: 89.933 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 89.593 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 92.339 ms

Loss rate: 0.07%

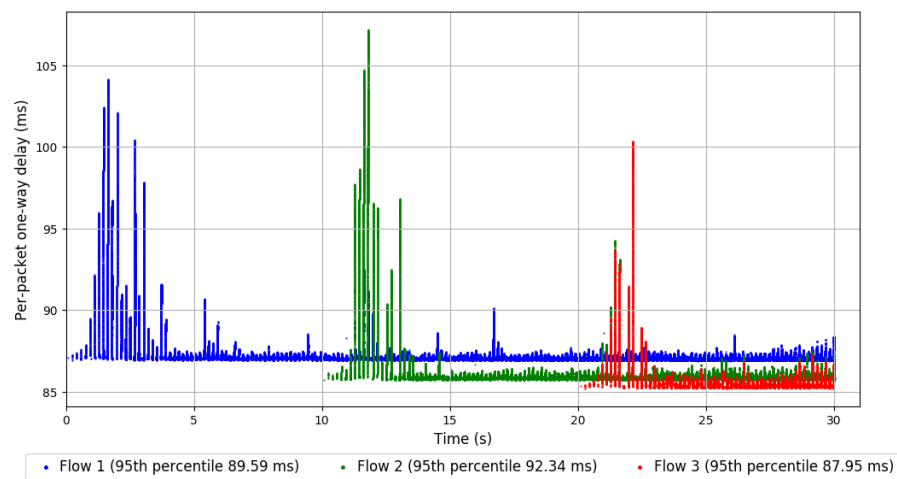
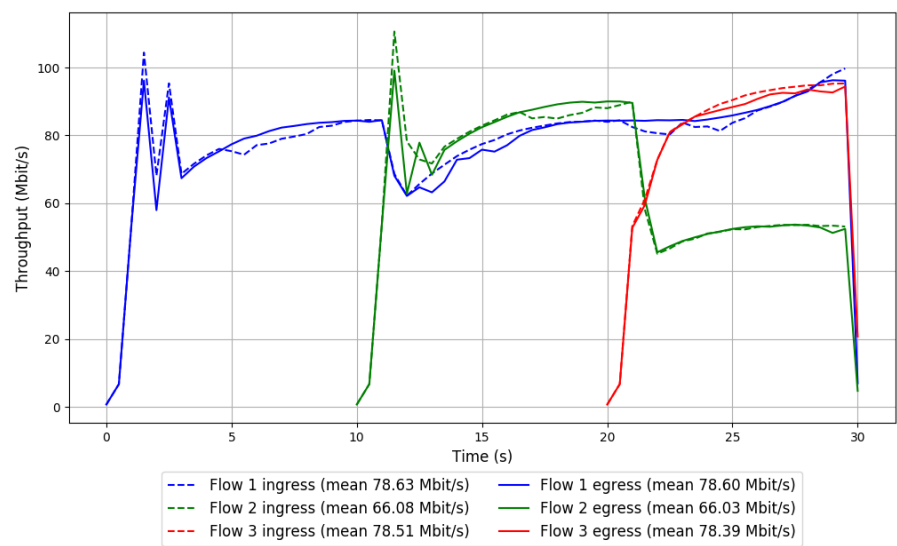
-- Flow 3:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 87.947 ms

Loss rate: 0.14%

Run 1: Report of TCP Cubic — Data Link

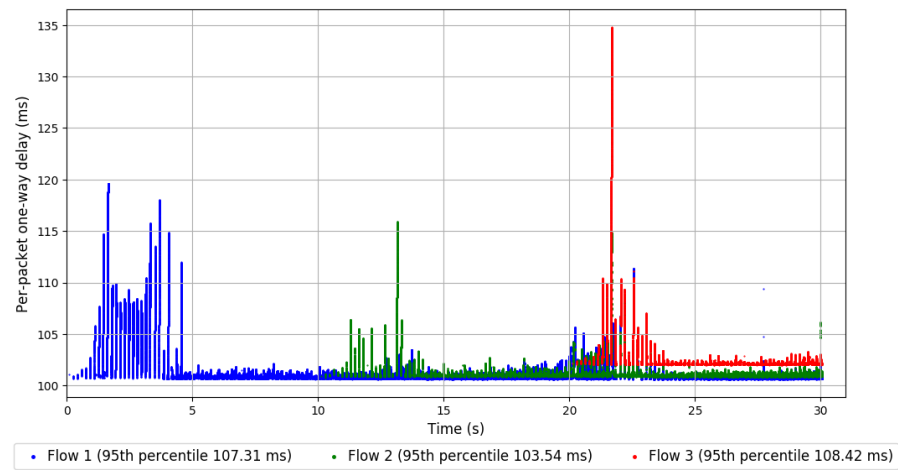
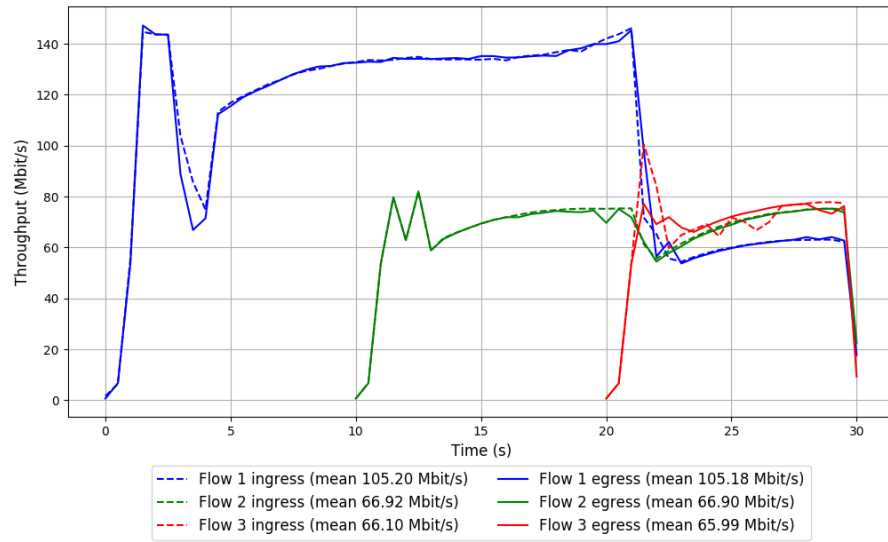


Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 23:43:33  
End at: 2017-12-11 23:44:03  
Local clock offset: -2.124 ms  
Remote clock offset: 16.976 ms

# Below is generated by plot.py at 2017-12-12 03:41:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 171.55 Mbit/s  
95th percentile per-packet one-way delay: 106.789 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 105.18 Mbit/s  
95th percentile per-packet one-way delay: 107.313 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 66.90 Mbit/s  
95th percentile per-packet one-way delay: 103.544 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 65.99 Mbit/s  
95th percentile per-packet one-way delay: 108.416 ms  
Loss rate: 0.16%

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



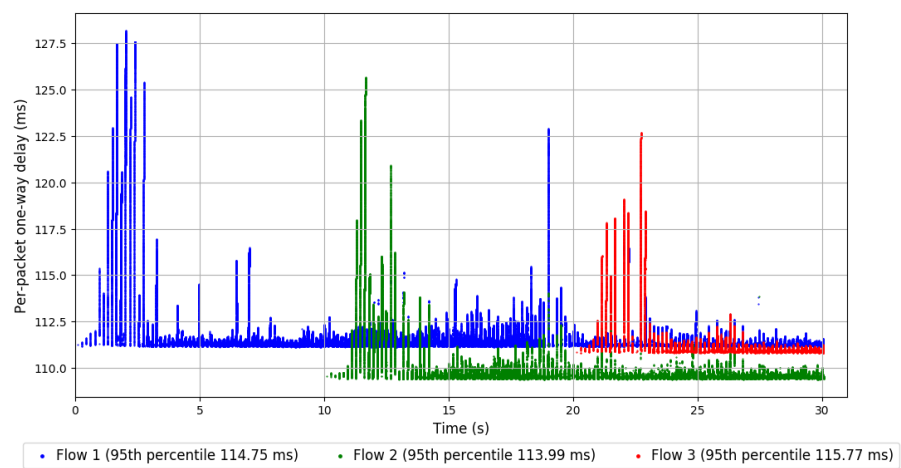
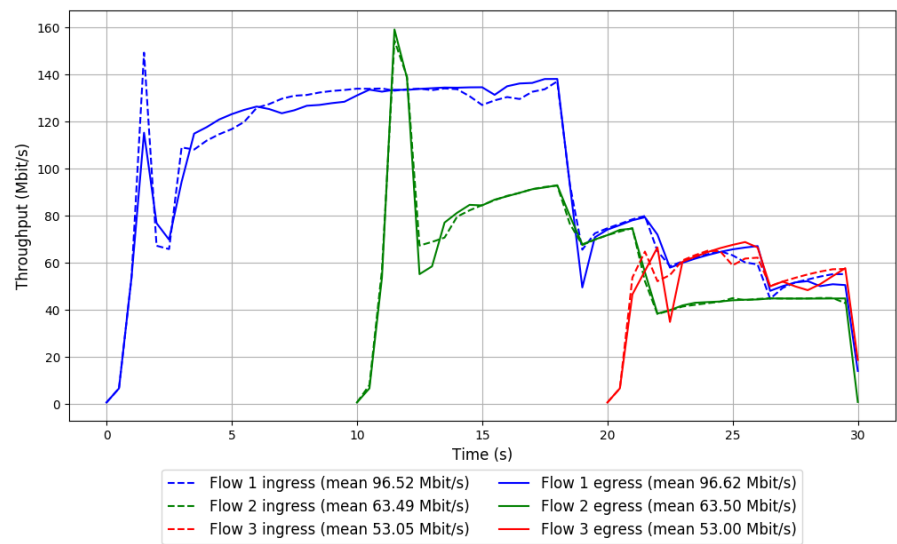
Run 3: Statistics of TCP Cubic

Start at: 2017-12-12 00:03:43  
End at: 2017-12-12 00:04:13  
Local clock offset: -1.954 ms  
Remote clock offset: 25.532 ms

# Below is generated by plot.py at 2017-12-12 03:41:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 156.37 Mbit/s  
95th percentile per-packet one-way delay: 114.620 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 96.62 Mbit/s  
95th percentile per-packet one-way delay: 114.752 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 63.50 Mbit/s  
95th percentile per-packet one-way delay: 113.988 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 53.00 Mbit/s  
95th percentile per-packet one-way delay: 115.774 ms  
Loss rate: 0.10%



Run 3: Report of TCP Cubic — Data Link

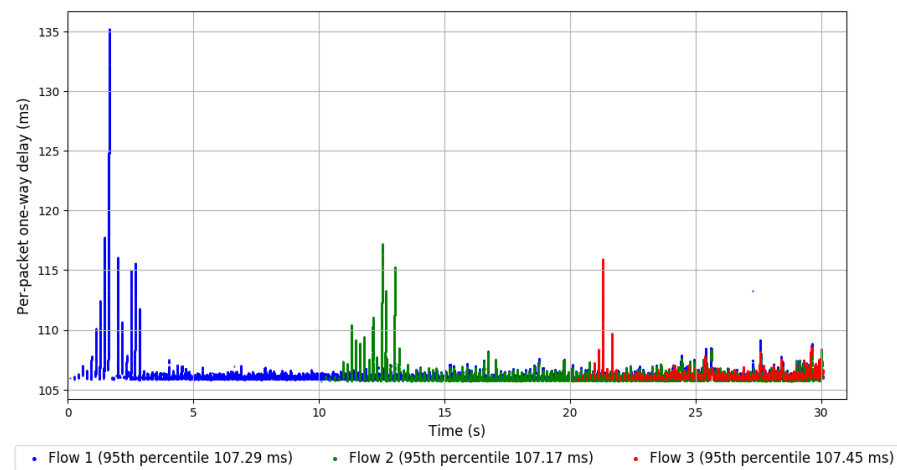
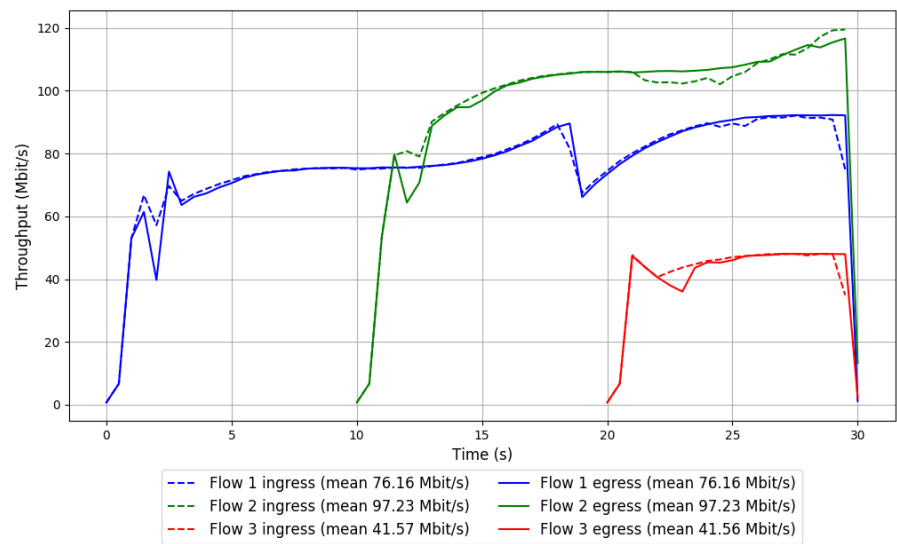


Run 4: Statistics of TCP Cubic

Start at: 2017-12-12 00:23:48  
End at: 2017-12-12 00:24:18  
Local clock offset: -2.561 ms  
Remote clock offset: 21.241 ms

# Below is generated by plot.py at 2017-12-12 03:41:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 154.60 Mbit/s  
95th percentile per-packet one-way delay: 107.247 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 76.16 Mbit/s  
95th percentile per-packet one-way delay: 107.289 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 107.173 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.56 Mbit/s  
95th percentile per-packet one-way delay: 107.449 ms  
Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link

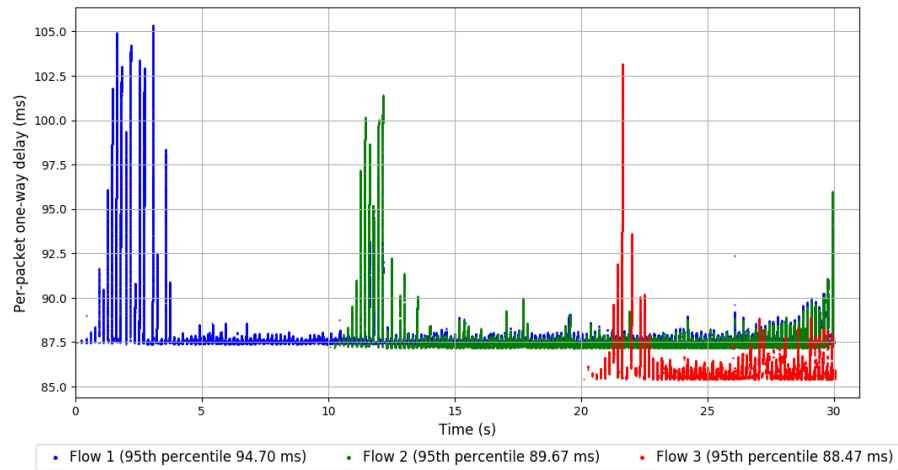
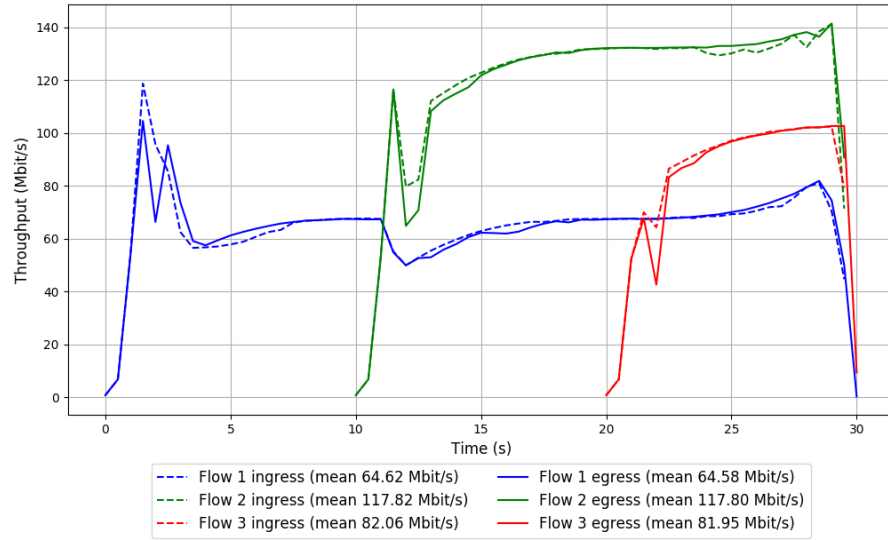


Run 5: Statistics of TCP Cubic

Start at: 2017-12-12 00:43:49  
End at: 2017-12-12 00:44:19  
Local clock offset: -3.252 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2017-12-12 03:41:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 169.94 Mbit/s  
95th percentile per-packet one-way delay: 90.826 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 64.58 Mbit/s  
95th percentile per-packet one-way delay: 94.701 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 117.80 Mbit/s  
95th percentile per-packet one-way delay: 89.668 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 81.95 Mbit/s  
95th percentile per-packet one-way delay: 88.468 ms  
Loss rate: 0.14%

# Run 5: Report of TCP Cubic — Data Link

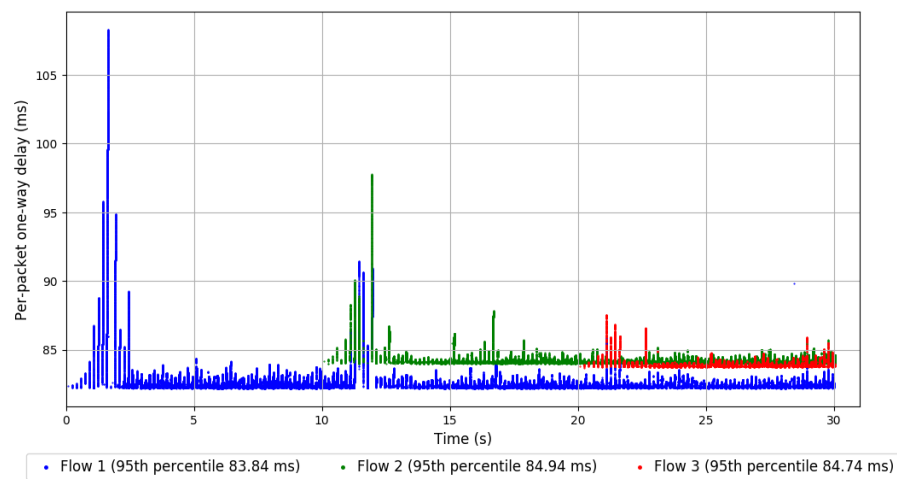
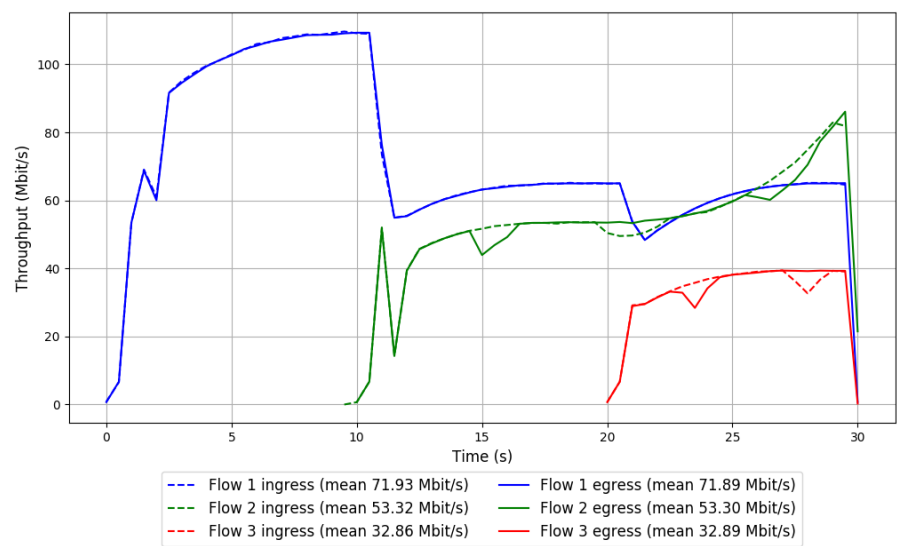


Run 6: Statistics of TCP Cubic

Start at: 2017-12-12 01:03:51  
End at: 2017-12-12 01:04:21  
Local clock offset: -3.319 ms  
Remote clock offset: -3.851 ms

# Below is generated by plot.py at 2017-12-12 03:41:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.28 Mbit/s  
95th percentile per-packet one-way delay: 84.696 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 71.89 Mbit/s  
95th percentile per-packet one-way delay: 83.839 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 53.30 Mbit/s  
95th percentile per-packet one-way delay: 84.941 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 32.89 Mbit/s  
95th percentile per-packet one-way delay: 84.738 ms  
Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



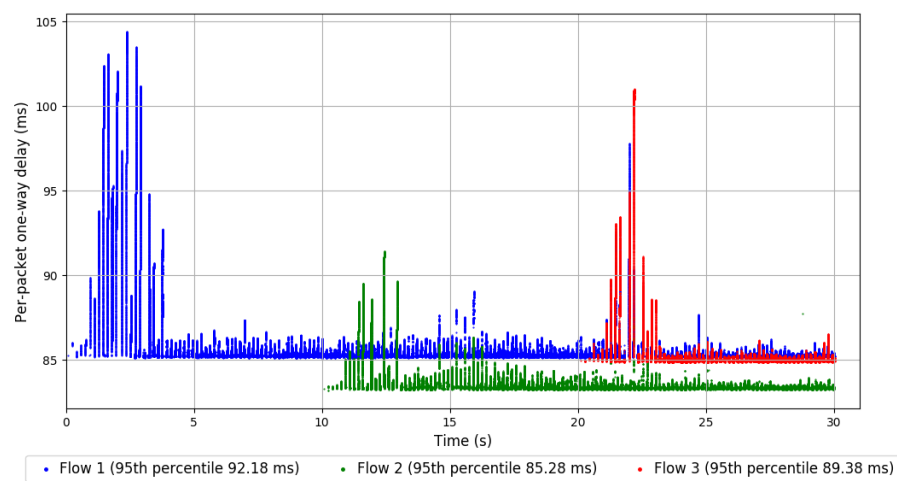
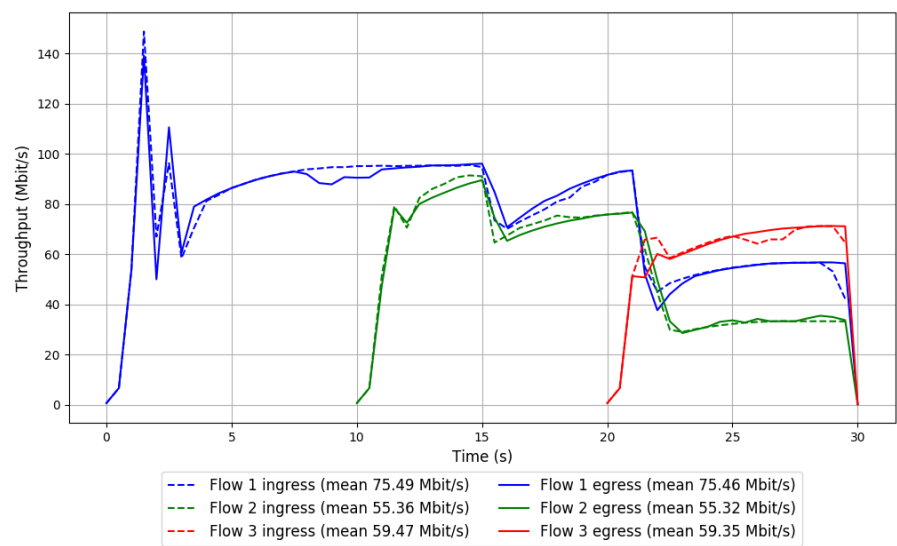
Run 7: Statistics of TCP Cubic

Start at: 2017-12-12 01:24:00  
End at: 2017-12-12 01:24:30  
Local clock offset: -2.818 ms  
Remote clock offset: -3.371 ms

# Below is generated by plot.py at 2017-12-12 03:43:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 131.94 Mbit/s  
95th percentile per-packet one-way delay: 89.045 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 75.46 Mbit/s  
95th percentile per-packet one-way delay: 92.177 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 55.32 Mbit/s  
95th percentile per-packet one-way delay: 85.285 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 59.35 Mbit/s  
95th percentile per-packet one-way delay: 89.378 ms  
Loss rate: 0.20%



Run 7: Report of TCP Cubic — Data Link

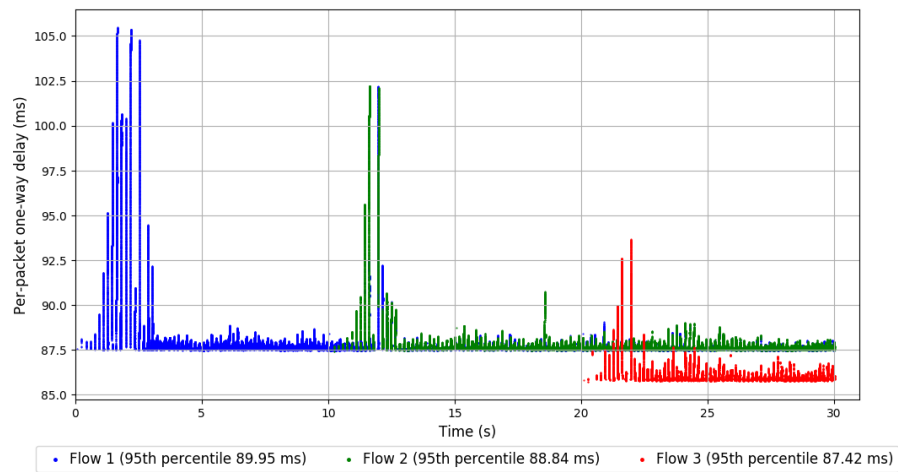
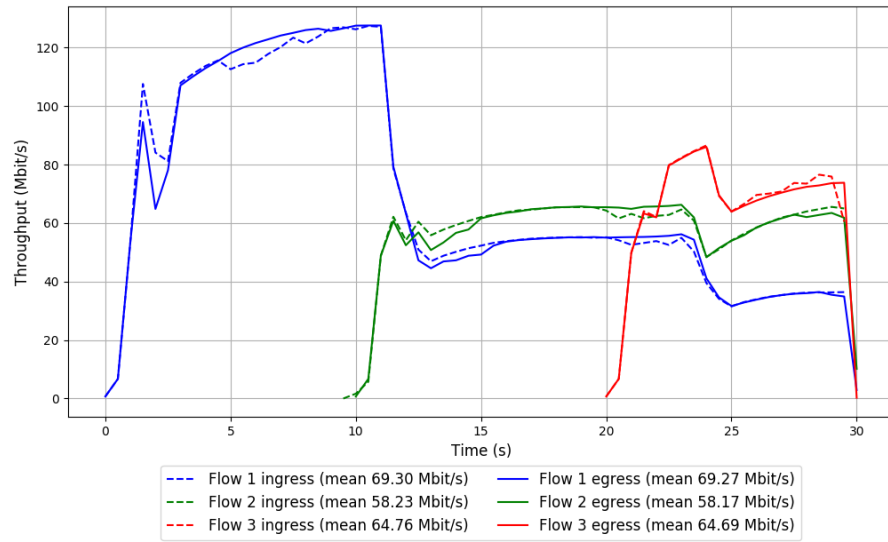


Run 8: Statistics of TCP Cubic

Start at: 2017-12-12 01:44:20  
End at: 2017-12-12 01:44:50  
Local clock offset: -2.939 ms  
Remote clock offset: -0.917 ms

# Below is generated by plot.py at 2017-12-12 03:43:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 129.44 Mbit/s  
95th percentile per-packet one-way delay: 89.000 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 69.27 Mbit/s  
95th percentile per-packet one-way delay: 89.949 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 58.17 Mbit/s  
95th percentile per-packet one-way delay: 88.845 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 64.69 Mbit/s  
95th percentile per-packet one-way delay: 87.420 ms  
Loss rate: 0.10%

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



Run 9: Statistics of TCP Cubic

Start at: 2017-12-12 02:04:30

End at: 2017-12-12 02:05:00

Local clock offset: -3.478 ms

Remote clock offset: 2.809 ms

# Below is generated by plot.py at 2017-12-12 03:43:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.33 Mbit/s

95th percentile per-packet one-way delay: 98.306 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 57.42 Mbit/s

95th percentile per-packet one-way delay: 99.114 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 97.119 ms

Loss rate: 0.22%

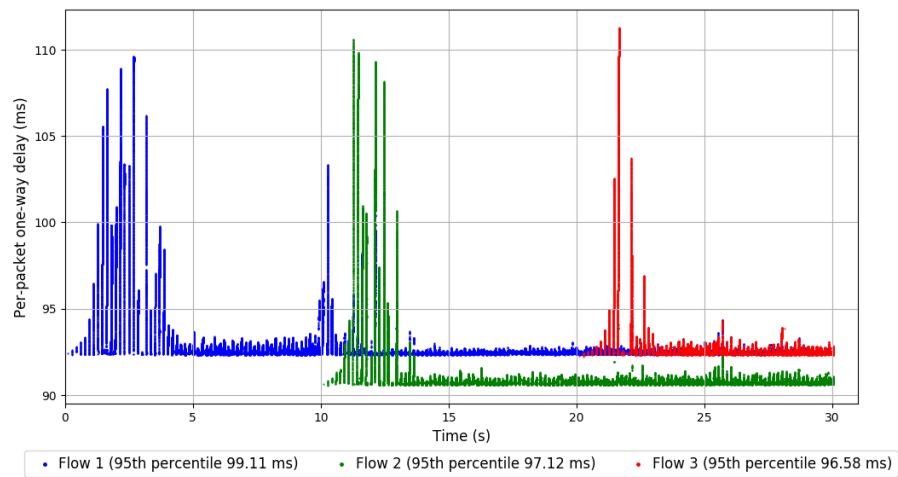
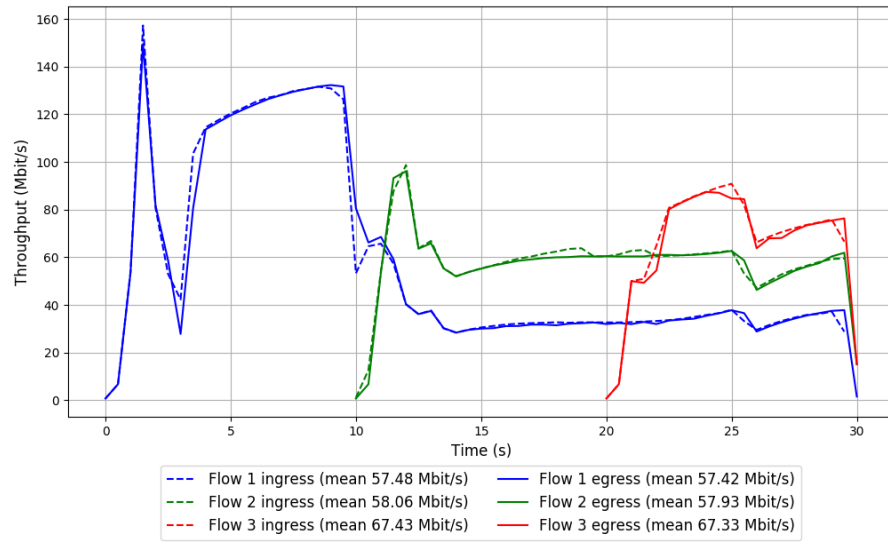
-- Flow 3:

Average throughput: 67.33 Mbit/s

95th percentile per-packet one-way delay: 96.578 ms

Loss rate: 0.15%

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



Run 10: Statistics of TCP Cubic

Start at: 2017-12-12 02:24:37

End at: 2017-12-12 02:25:07

Local clock offset: -2.67 ms

Remote clock offset: 1.887 ms

# Below is generated by plot.py at 2017-12-12 03:43:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 127.55 Mbit/s

95th percentile per-packet one-way delay: 98.392 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 65.35 Mbit/s

95th percentile per-packet one-way delay: 99.426 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 95.008 ms

Loss rate: 0.11%

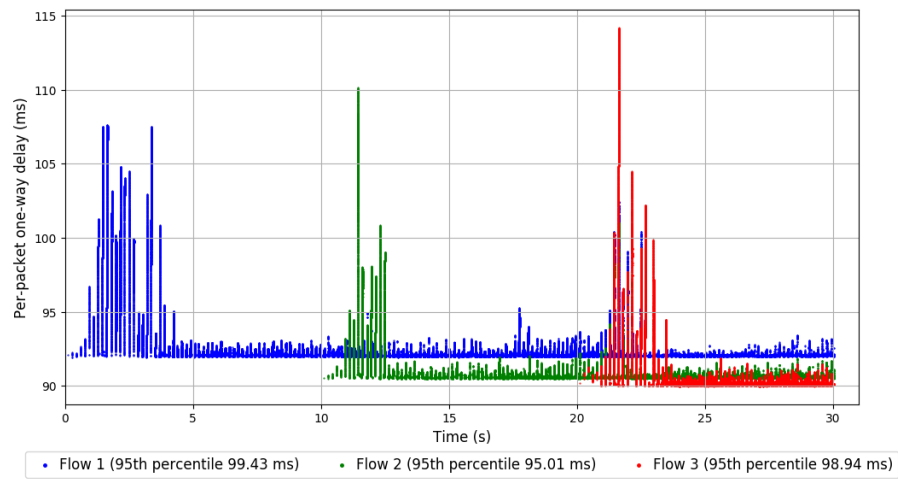
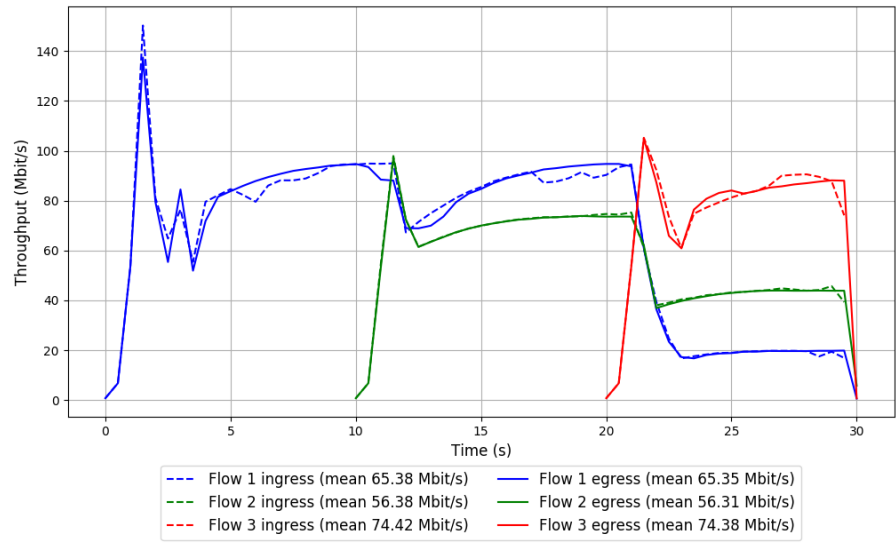
-- Flow 3:

Average throughput: 74.38 Mbit/s

95th percentile per-packet one-way delay: 98.940 ms

Loss rate: 0.07%

# Run 10: Report of TCP Cubic — Data Link



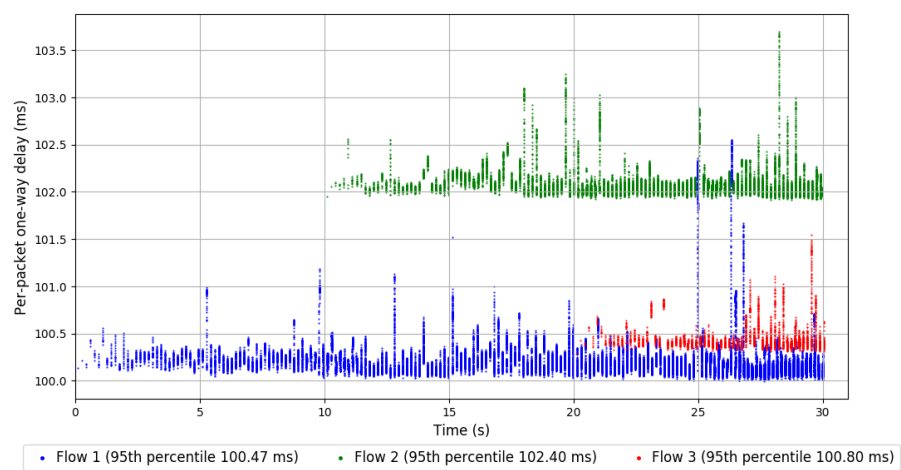
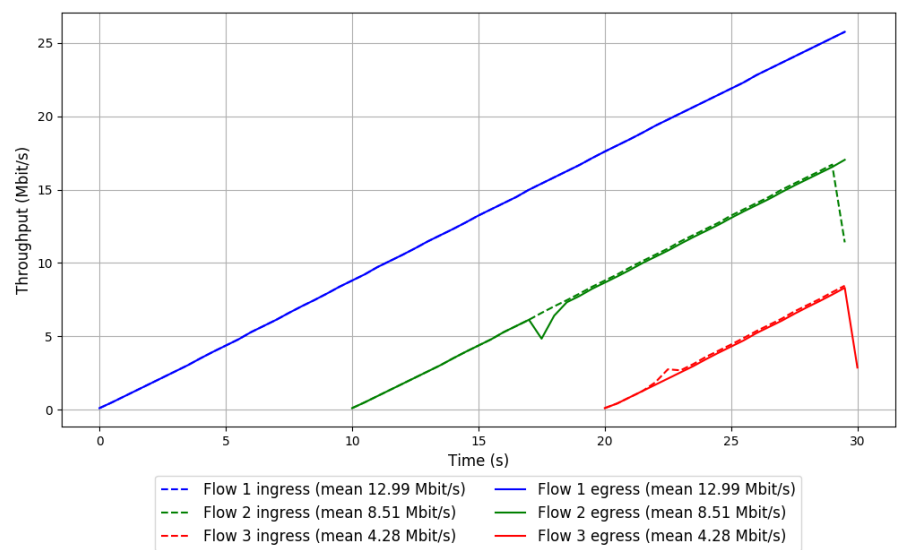
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 23:22:14  
End at: 2017-12-11 23:22:44  
Local clock offset: -1.035 ms  
Remote clock offset: 16.154 ms

# Below is generated by plot.py at 2017-12-12 03:43:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.02 Mbit/s  
95th percentile per-packet one-way delay: 102.163 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.99 Mbit/s  
95th percentile per-packet one-way delay: 100.466 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.51 Mbit/s  
95th percentile per-packet one-way delay: 102.400 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 100.799 ms  
Loss rate: 0.00%



Run 1: Report of LEDBAT — Data Link

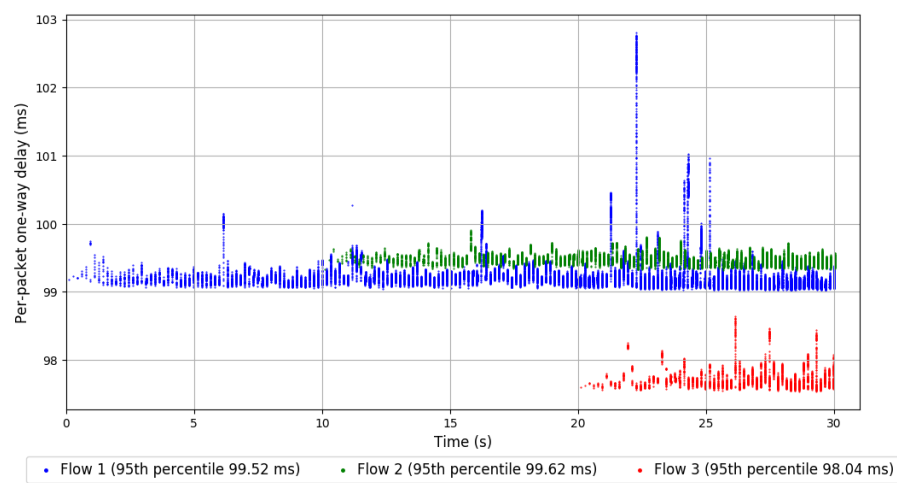
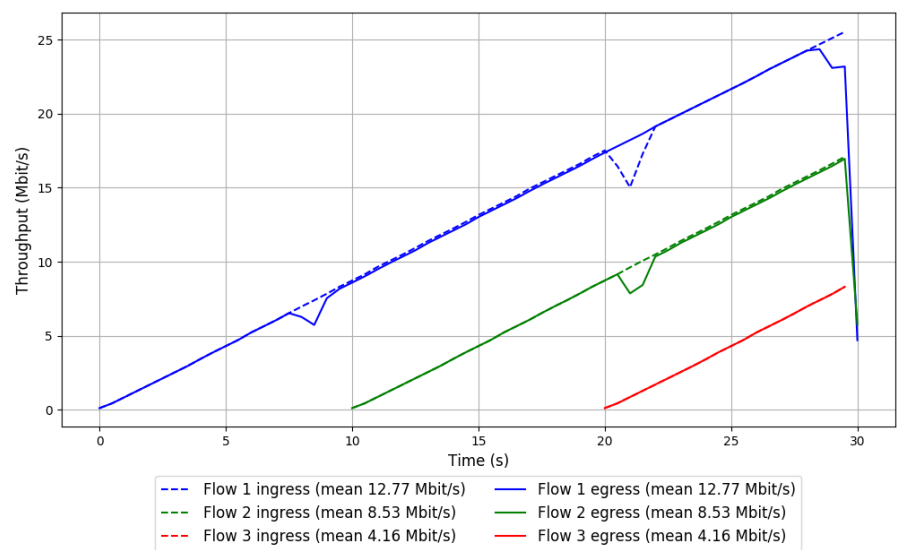


Run 2: Statistics of LEDBAT

Start at: 2017-12-11 23:42:17  
End at: 2017-12-11 23:42:47  
Local clock offset: -2.133 ms  
Remote clock offset: 13.583 ms

# Below is generated by plot.py at 2017-12-12 03:43:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.81 Mbit/s  
95th percentile per-packet one-way delay: 99.590 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.77 Mbit/s  
95th percentile per-packet one-way delay: 99.522 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 99.618 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 98.041 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

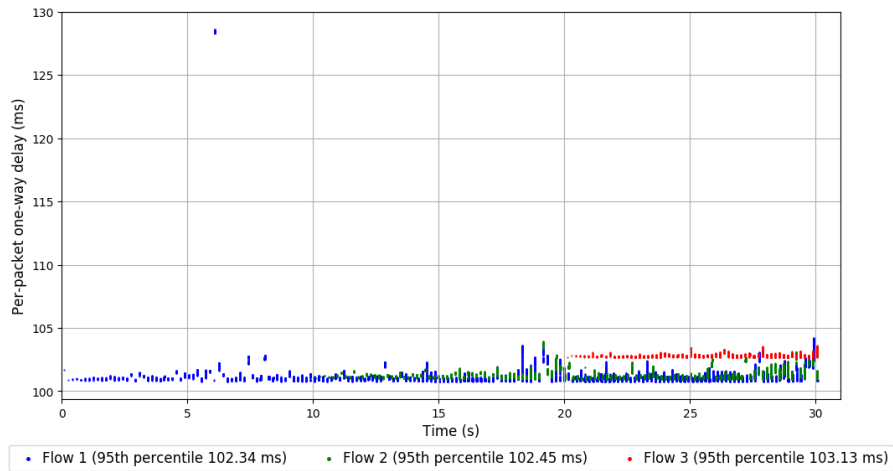
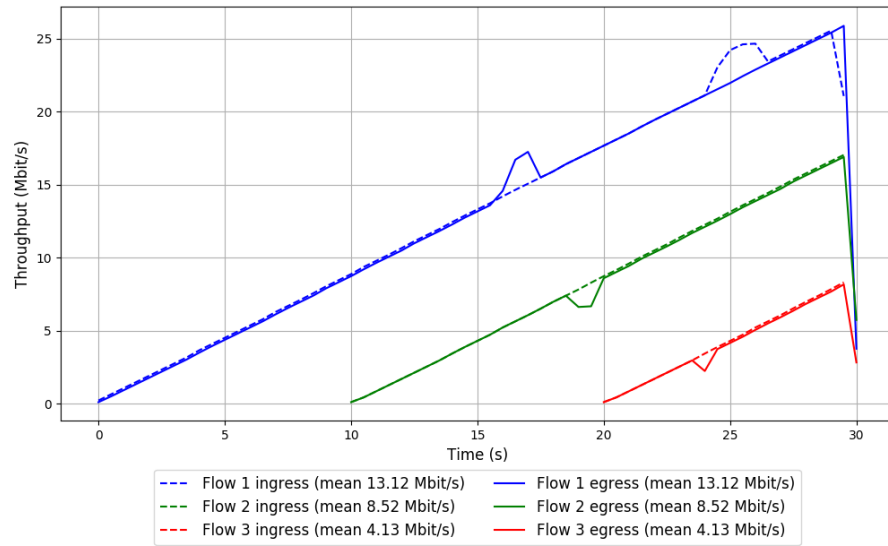


Run 3: Statistics of LEDBAT

Start at: 2017-12-12 00:02:27  
End at: 2017-12-12 00:02:57  
Local clock offset: -1.965 ms  
Remote clock offset: 17.152 ms

# Below is generated by plot.py at 2017-12-12 03:43:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.16 Mbit/s  
95th percentile per-packet one-way delay: 102.796 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.12 Mbit/s  
95th percentile per-packet one-way delay: 102.340 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.52 Mbit/s  
95th percentile per-packet one-way delay: 102.449 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.13 Mbit/s  
95th percentile per-packet one-way delay: 103.126 ms  
Loss rate: 0.00%

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

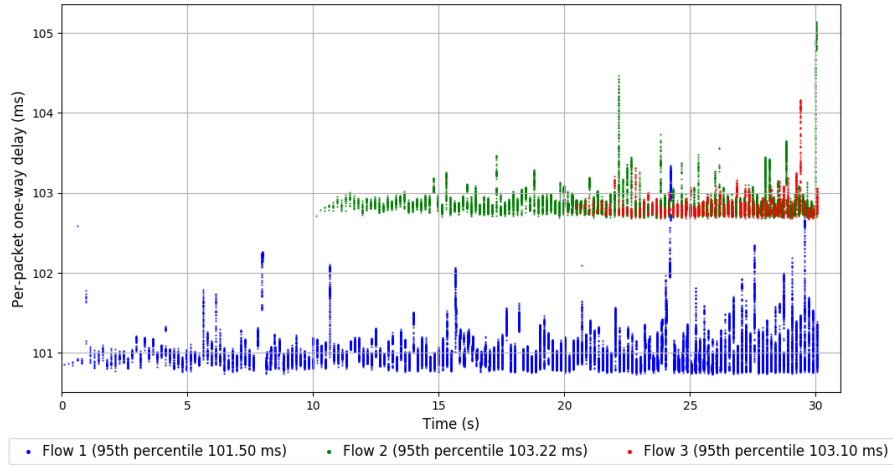
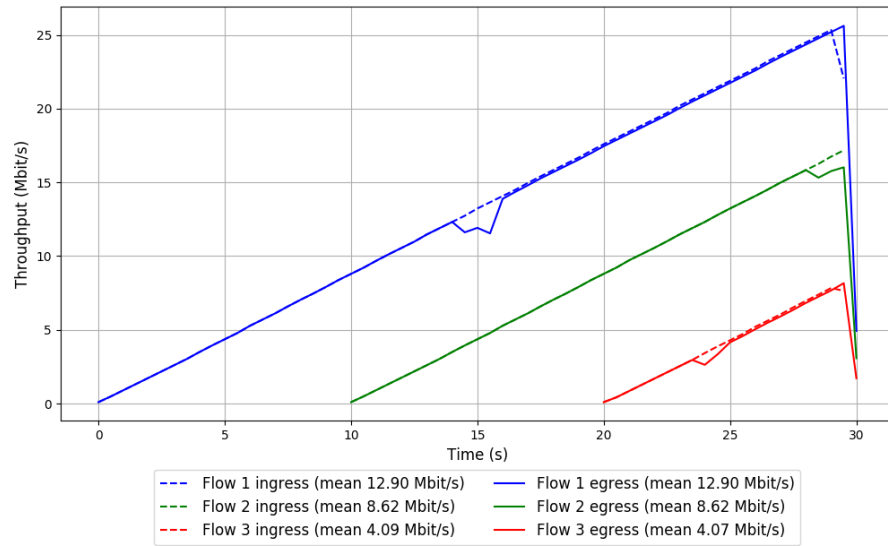


Run 4: Statistics of LEDBAT

Start at: 2017-12-12 00:22:32  
End at: 2017-12-12 00:23:02  
Local clock offset: -2.646 ms  
Remote clock offset: 16.225 ms

# Below is generated by plot.py at 2017-12-12 03:43:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.97 Mbit/s  
95th percentile per-packet one-way delay: 102.971 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 12.90 Mbit/s  
95th percentile per-packet one-way delay: 101.503 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 103.218 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.07 Mbit/s  
95th percentile per-packet one-way delay: 103.097 ms  
Loss rate: 0.55%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-12 00:42:33

End at: 2017-12-12 00:43:03

Local clock offset: -3.117 ms

Remote clock offset: 5.685 ms

# Below is generated by plot.py at 2017-12-12 03:43:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 93.652 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 92.877 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 95.380 ms

Loss rate: 0.00%

-- Flow 3:

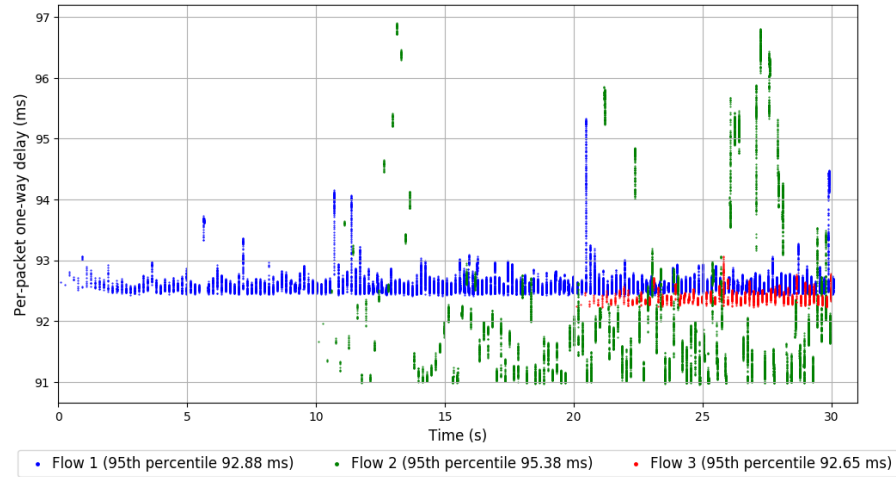
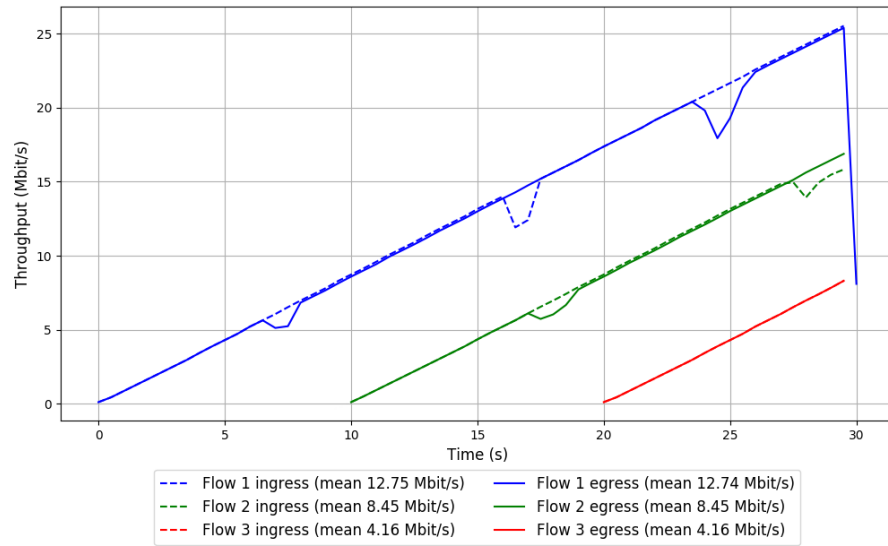
Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 92.647 ms

Loss rate: 0.00%



## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-12 01:02:35

End at: 2017-12-12 01:03:05

Local clock offset: -3.388 ms

Remote clock offset: 3.947 ms

# Below is generated by plot.py at 2017-12-12 03:43:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 92.533 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.49 Mbit/s

95th percentile per-packet one-way delay: 92.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 92.377 ms

Loss rate: 0.00%

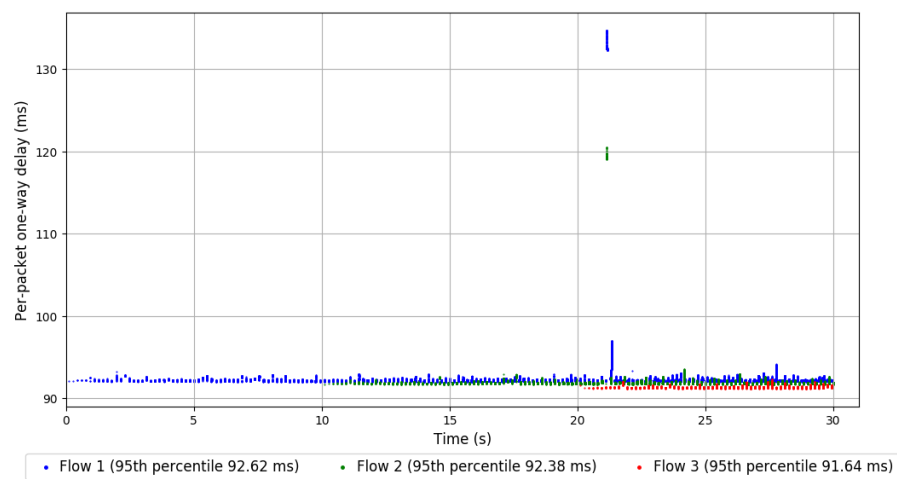
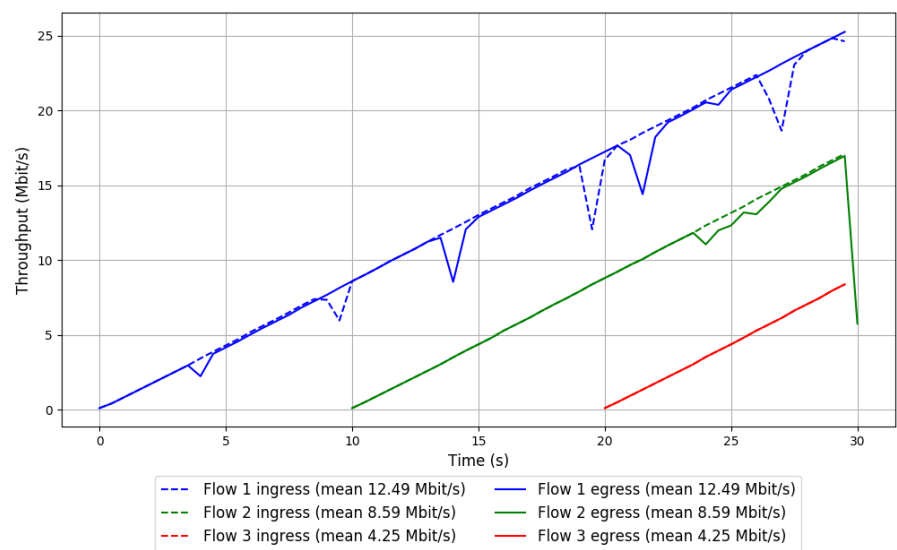
-- Flow 3:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 91.639 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-12 01:22:44

End at: 2017-12-12 01:23:14

Local clock offset: -2.774 ms

Remote clock offset: 6.022 ms

# Below is generated by plot.py at 2017-12-12 03:43:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 94.451 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.50 Mbit/s

95th percentile per-packet one-way delay: 94.629 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 93.297 ms

Loss rate: 0.00%

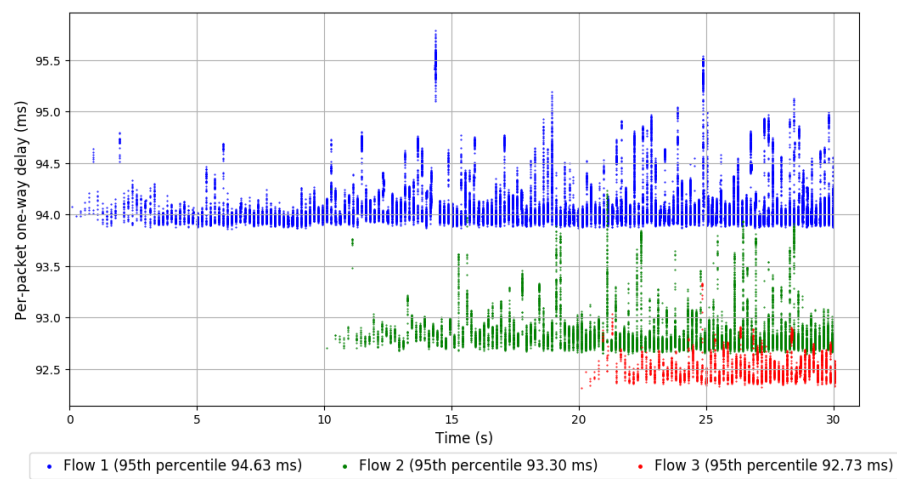
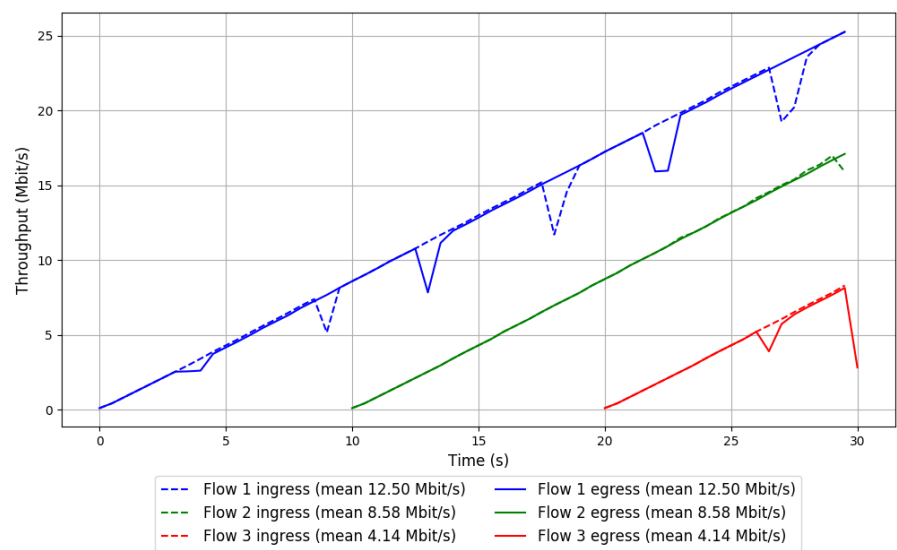
-- Flow 3:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 92.734 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-12 01:43:04

End at: 2017-12-12 01:43:34

Local clock offset: -2.937 ms

Remote clock offset: 2.699 ms

# Below is generated by plot.py at 2017-12-12 03:43:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.58 Mbit/s

95th percentile per-packet one-way delay: 91.220 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 91.335 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.59 Mbit/s

95th percentile per-packet one-way delay: 90.031 ms

Loss rate: 0.00%

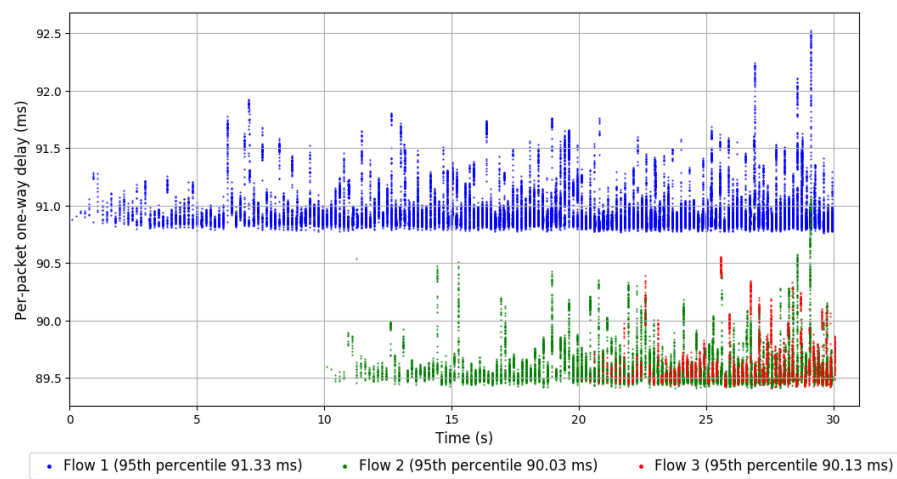
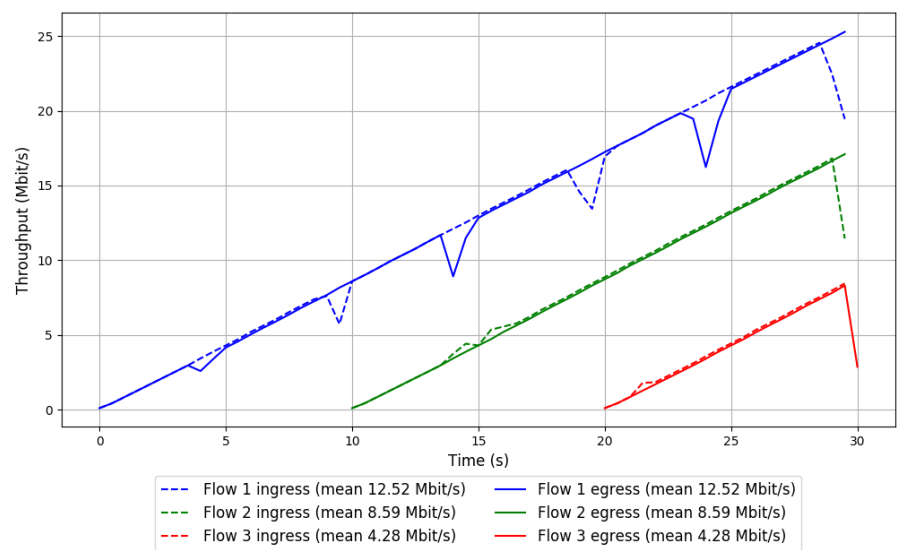
-- Flow 3:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 90.131 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-12 02:03:14

End at: 2017-12-12 02:03:44

Local clock offset: -3.374 ms

Remote clock offset: -3.05 ms

# Below is generated by plot.py at 2017-12-12 03:43:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 87.067 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 87.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 85.445 ms

Loss rate: 0.00%

-- Flow 3:

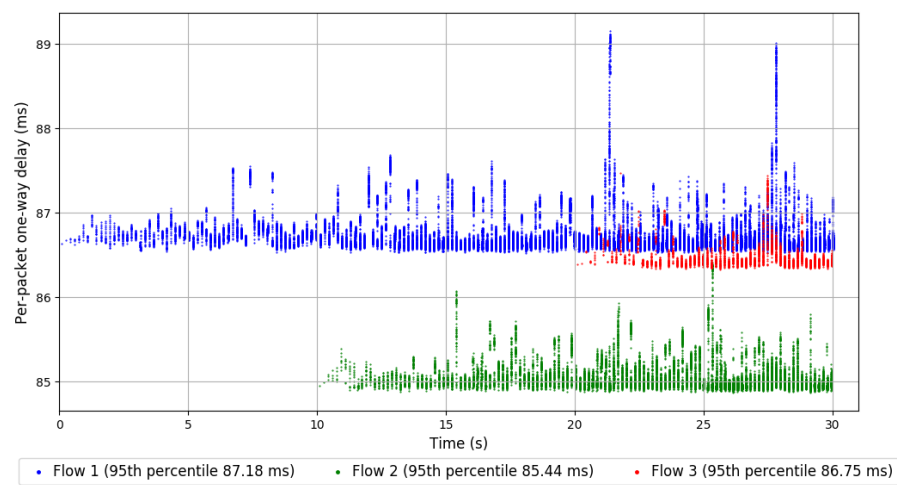
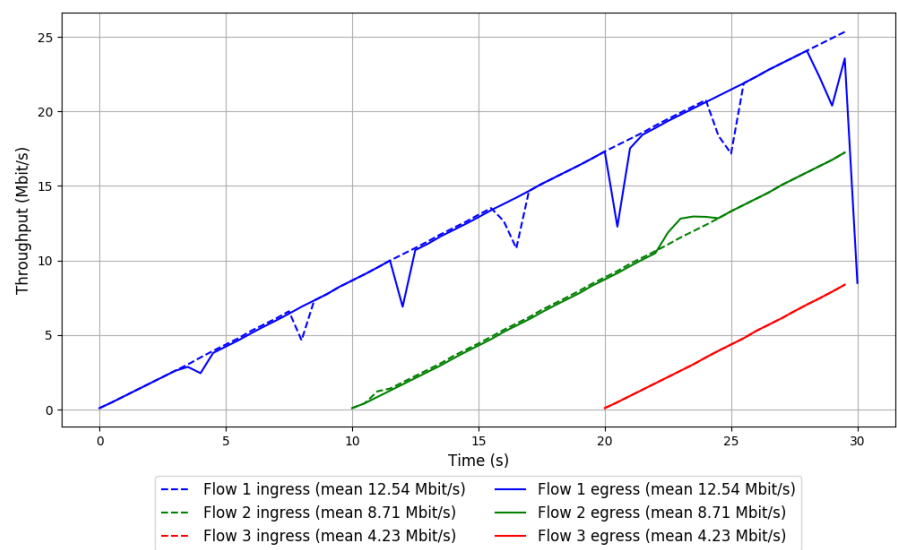
Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 0.00%



Run 9: Report of LEDBAT — Data Link

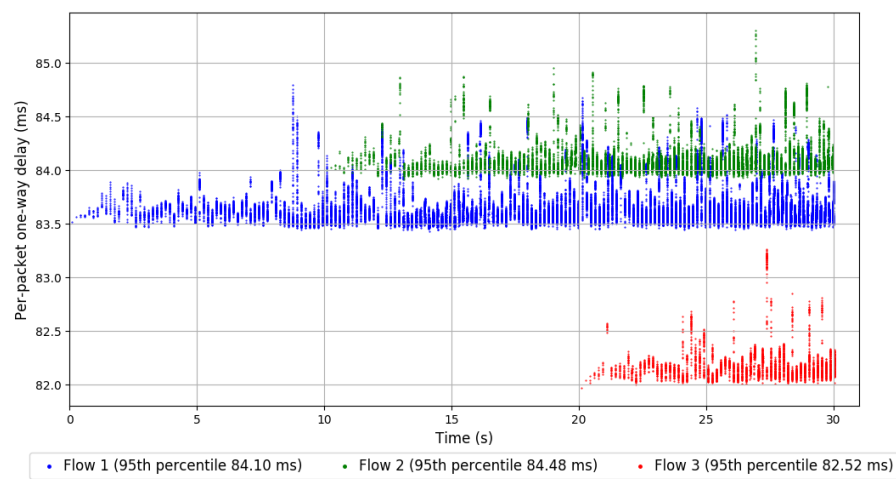
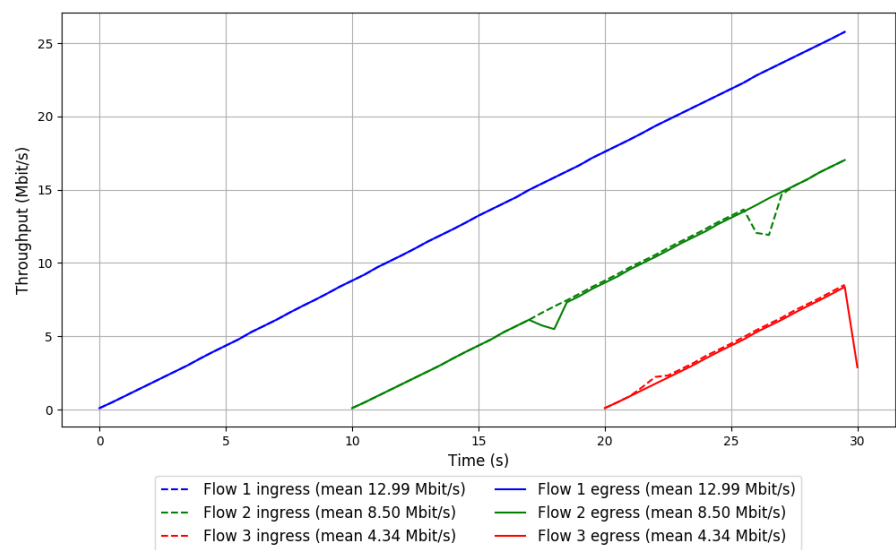


Run 10: Statistics of LEDBAT

Start at: 2017-12-12 02:23:21  
End at: 2017-12-12 02:23:51  
Local clock offset: -2.739 ms  
Remote clock offset: -6.321 ms

# Below is generated by plot.py at 2017-12-12 03:43:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.05 Mbit/s  
95th percentile per-packet one-way delay: 84.230 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.99 Mbit/s  
95th percentile per-packet one-way delay: 84.096 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 84.481 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 82.516 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-12-11 23:34:06

End at: 2017-12-11 23:34:36

Local clock offset: -1.69 ms

Remote clock offset: 1.999 ms

# Below is generated by plot.py at 2017-12-12 03:49:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 423.78 Mbit/s

95th percentile per-packet one-way delay: 88.159 ms

Loss rate: 15.71%

-- Flow 1:

Average throughput: 221.92 Mbit/s

95th percentile per-packet one-way delay: 87.830 ms

Loss rate: 12.63%

-- Flow 2:

Average throughput: 289.39 Mbit/s

95th percentile per-packet one-way delay: 88.169 ms

Loss rate: 19.06%

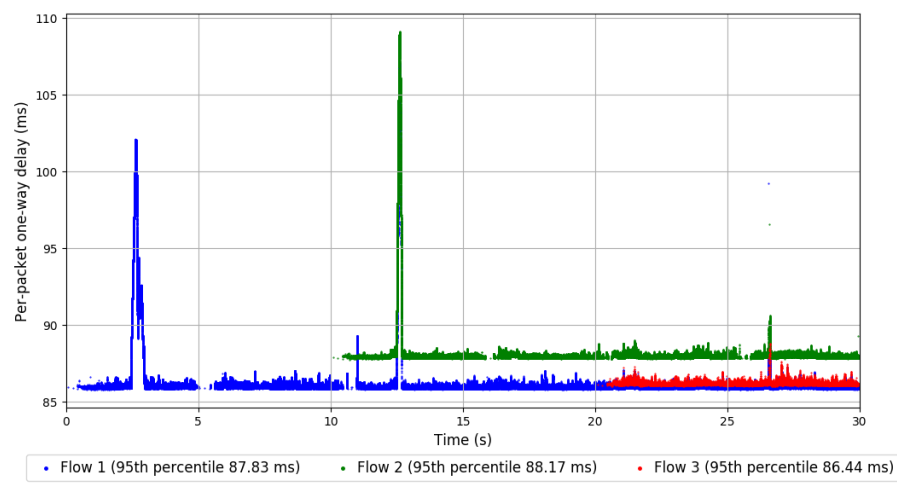
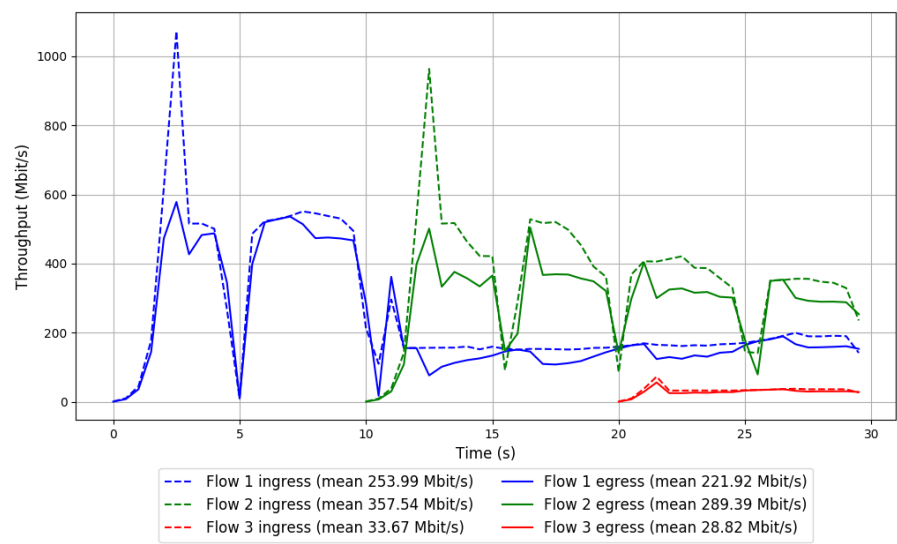
-- Flow 3:

Average throughput: 28.82 Mbit/s

95th percentile per-packet one-way delay: 86.441 ms

Loss rate: 14.40%

Run 1: Report of PCC — Data Link

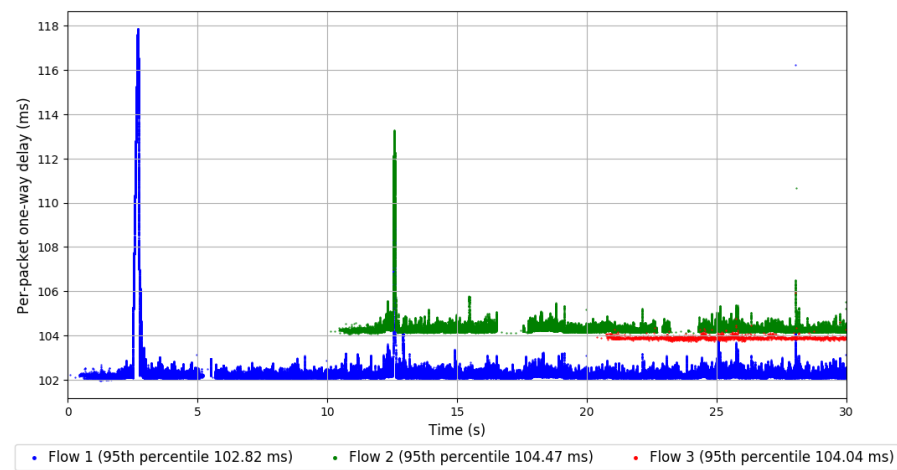
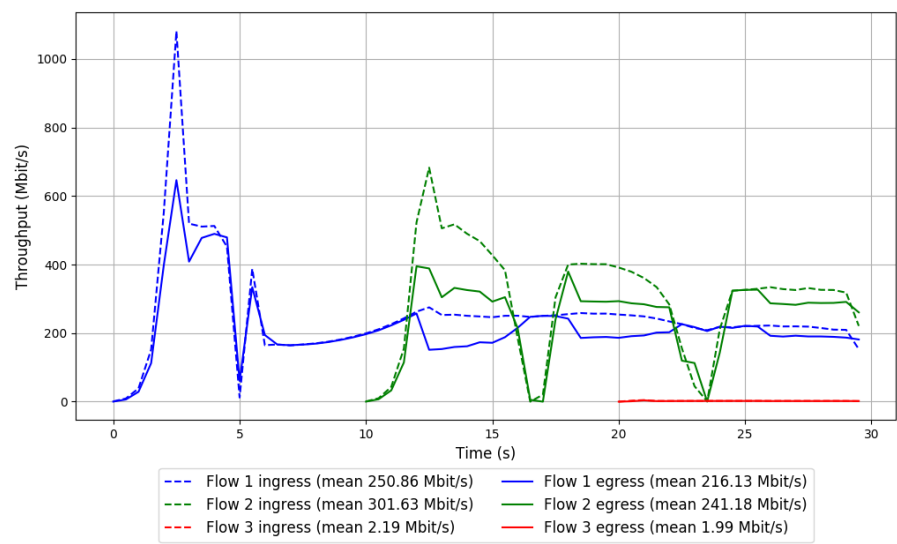


Run 2: Statistics of PCC

Start at: 2017-12-11 23:54:14  
End at: 2017-12-11 23:54:44  
Local clock offset: -2.089 ms  
Remote clock offset: 18.357 ms

# Below is generated by plot.py at 2017-12-12 03:49:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 377.07 Mbit/s  
95th percentile per-packet one-way delay: 104.447 ms  
Loss rate: 16.59%  
-- Flow 1:  
Average throughput: 216.13 Mbit/s  
95th percentile per-packet one-way delay: 102.816 ms  
Loss rate: 13.84%  
-- Flow 2:  
Average throughput: 241.18 Mbit/s  
95th percentile per-packet one-way delay: 104.475 ms  
Loss rate: 20.05%  
-- Flow 3:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 104.042 ms  
Loss rate: 11.66%

Run 2: Report of PCC — Data Link



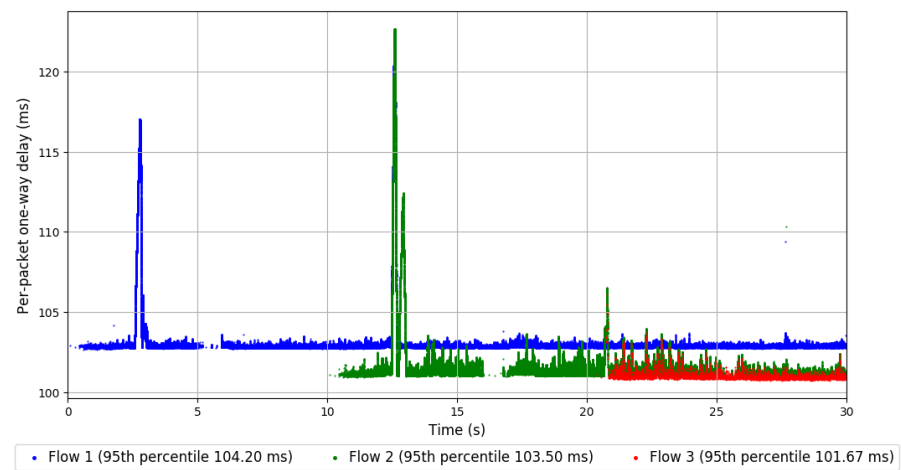
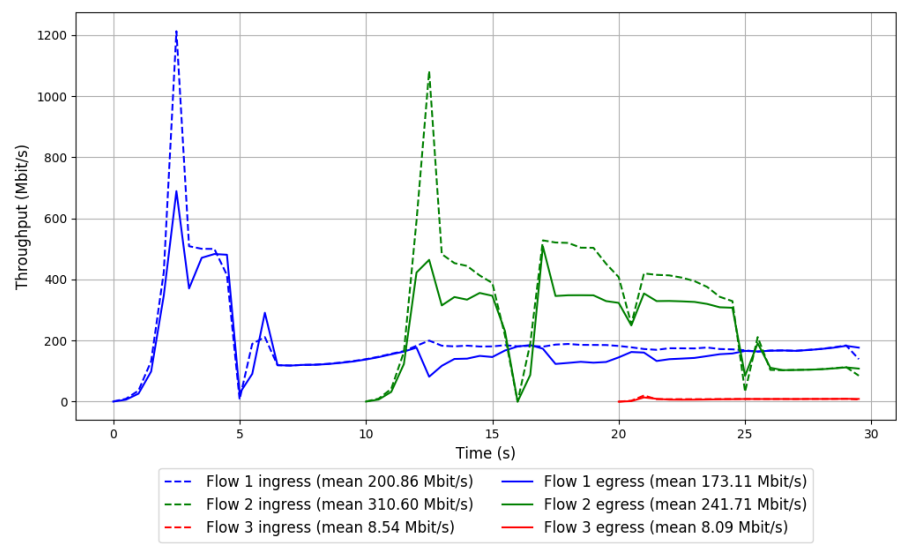
Run 3: Statistics of PCC

Start at: 2017-12-12 00:14:29  
End at: 2017-12-12 00:14:59  
Local clock offset: -2.347 ms  
Remote clock offset: 16.947 ms

# Below is generated by plot.py at 2017-12-12 03:49:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 336.45 Mbit/s  
95th percentile per-packet one-way delay: 103.863 ms  
Loss rate: 17.99%  
-- Flow 1:  
Average throughput: 173.11 Mbit/s  
95th percentile per-packet one-way delay: 104.205 ms  
Loss rate: 13.82%  
-- Flow 2:  
Average throughput: 241.71 Mbit/s  
95th percentile per-packet one-way delay: 103.500 ms  
Loss rate: 22.18%  
-- Flow 3:  
Average throughput: 8.09 Mbit/s  
95th percentile per-packet one-way delay: 101.669 ms  
Loss rate: 7.63%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-12 00:34:27

End at: 2017-12-12 00:34:57

Local clock offset: -2.874 ms

Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2017-12-12 03:49:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 369.27 Mbit/s

95th percentile per-packet one-way delay: 87.414 ms

Loss rate: 17.24%

-- Flow 1:

Average throughput: 197.64 Mbit/s

95th percentile per-packet one-way delay: 87.483 ms

Loss rate: 13.56%

-- Flow 2:

Average throughput: 256.11 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 21.20%

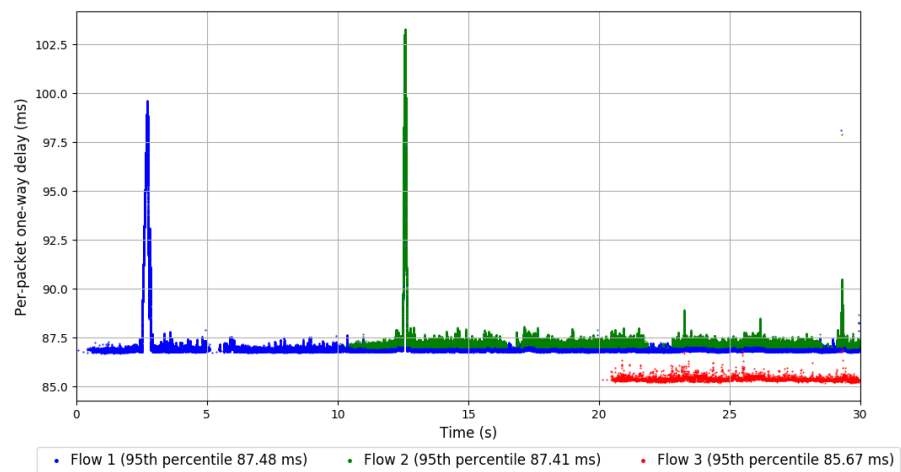
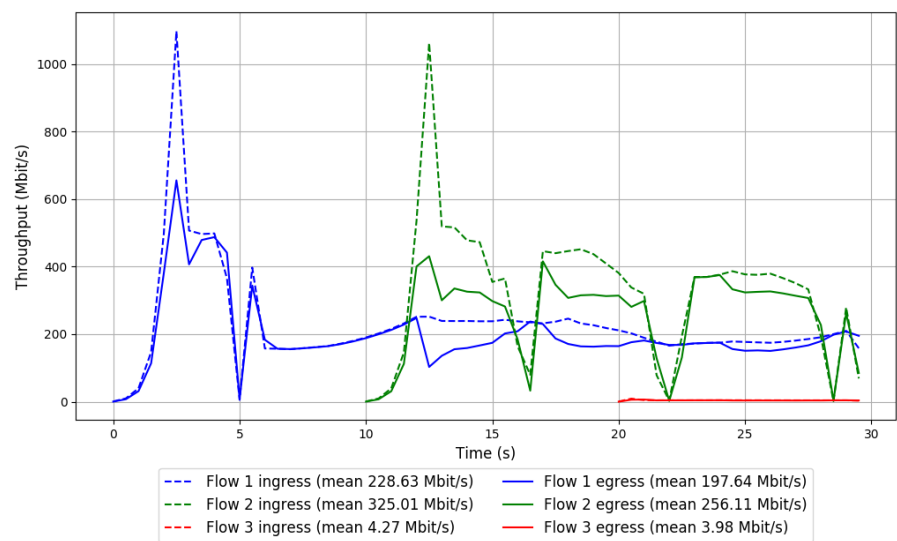
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 85.668 ms

Loss rate: 6.83%

Run 4: Report of PCC — Data Link

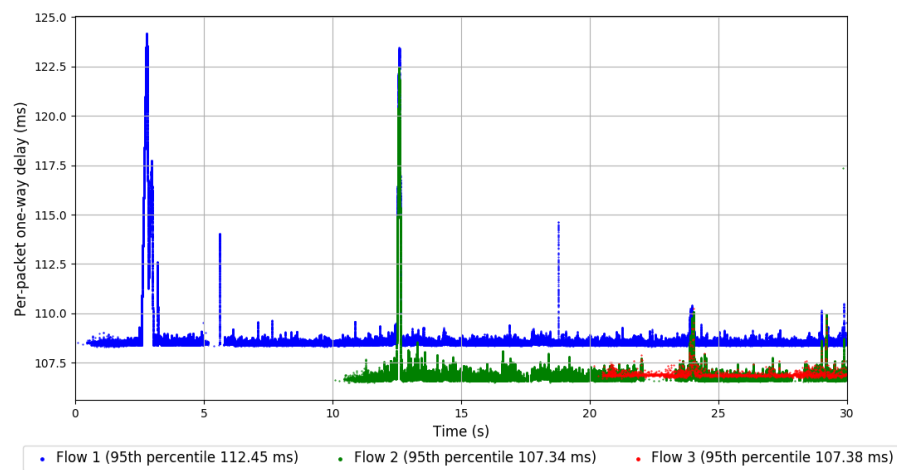
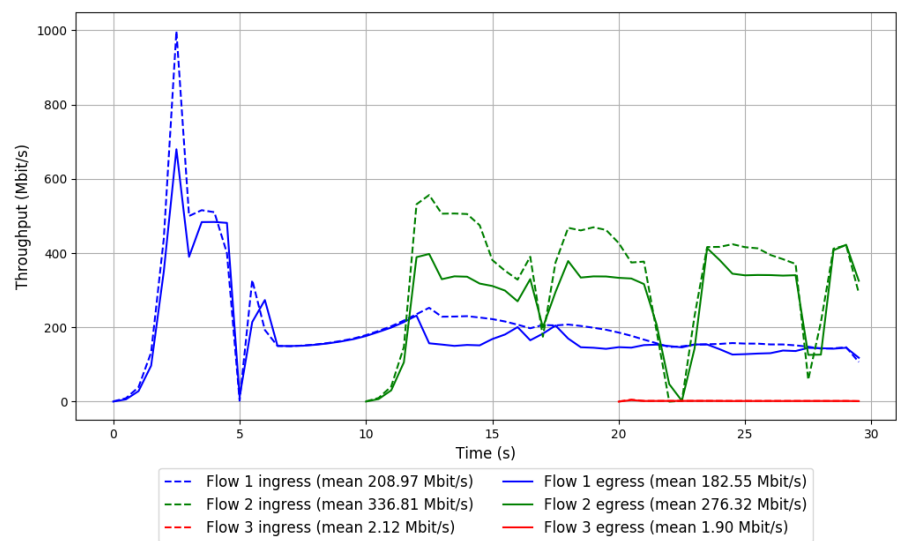


Run 5: Statistics of PCC

Start at: 2017-12-12 00:54:26  
End at: 2017-12-12 00:54:57  
Local clock offset: -3.694 ms  
Remote clock offset: 21.028 ms

# Below is generated by plot.py at 2017-12-12 03:49:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.96 Mbit/s  
95th percentile per-packet one-way delay: 108.752 ms  
Loss rate: 15.39%  
-- Flow 1:  
Average throughput: 182.55 Mbit/s  
95th percentile per-packet one-way delay: 112.448 ms  
Loss rate: 12.64%  
-- Flow 2:  
Average throughput: 276.32 Mbit/s  
95th percentile per-packet one-way delay: 107.338 ms  
Loss rate: 17.96%  
-- Flow 3:  
Average throughput: 1.90 Mbit/s  
95th percentile per-packet one-way delay: 107.375 ms  
Loss rate: 10.18%

Run 5: Report of PCC — Data Link

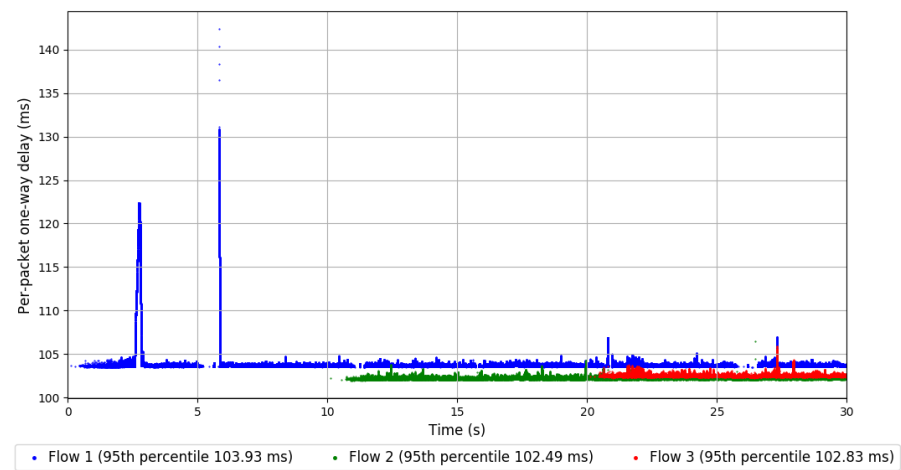
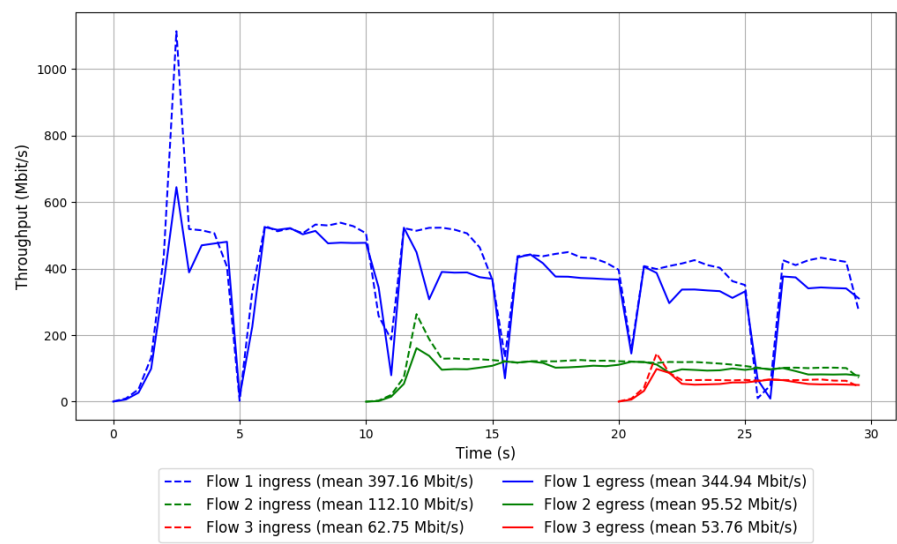


Run 6: Statistics of PCC

Start at: 2017-12-12 01:14:28  
End at: 2017-12-12 01:14:58  
Local clock offset: -3.051 ms  
Remote clock offset: 15.926 ms

# Below is generated by plot.py at 2017-12-12 03:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 426.16 Mbit/s  
95th percentile per-packet one-way delay: 103.885 ms  
Loss rate: 13.45%  
-- Flow 1:  
Average throughput: 344.94 Mbit/s  
95th percentile per-packet one-way delay: 103.934 ms  
Loss rate: 13.15%  
-- Flow 2:  
Average throughput: 95.52 Mbit/s  
95th percentile per-packet one-way delay: 102.488 ms  
Loss rate: 14.79%  
-- Flow 3:  
Average throughput: 53.76 Mbit/s  
95th percentile per-packet one-way delay: 102.832 ms  
Loss rate: 14.33%

Run 6: Report of PCC — Data Link



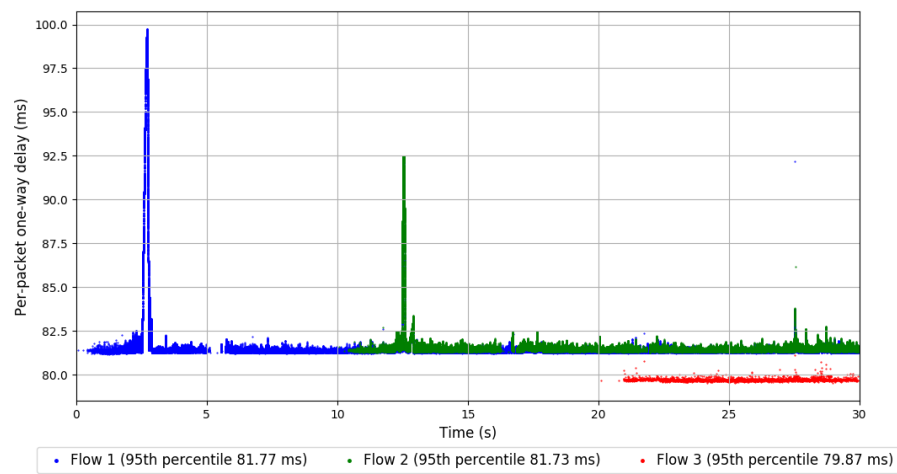
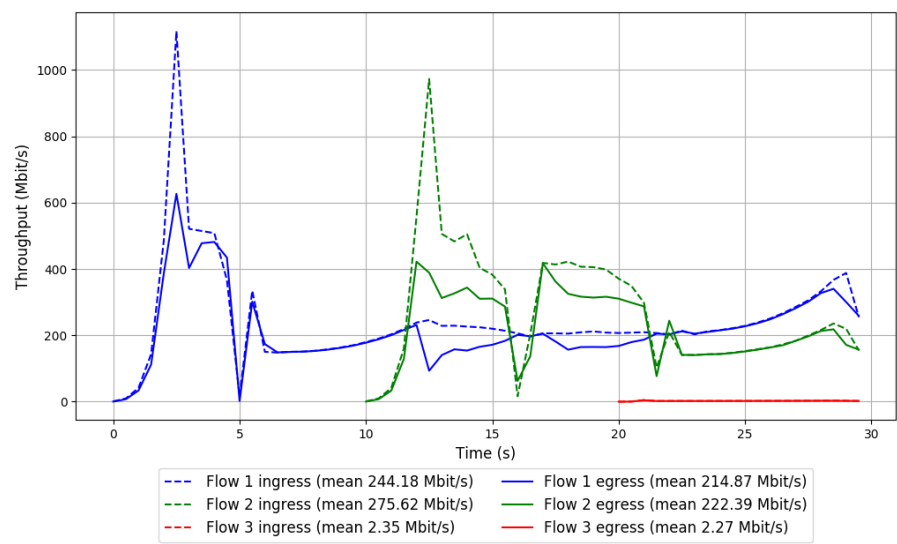
Run 7: Statistics of PCC

Start at: 2017-12-12 01:34:57  
End at: 2017-12-12 01:35:27  
Local clock offset: -2.748 ms  
Remote clock offset: -7.292 ms

# Below is generated by plot.py at 2017-12-12 03:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 363.50 Mbit/s  
95th percentile per-packet one-way delay: 81.743 ms  
Loss rate: 15.12%  
-- Flow 1:  
Average throughput: 214.87 Mbit/s  
95th percentile per-packet one-way delay: 81.770 ms  
Loss rate: 12.01%  
-- Flow 2:  
Average throughput: 222.39 Mbit/s  
95th percentile per-packet one-way delay: 81.732 ms  
Loss rate: 19.32%  
-- Flow 3:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 79.874 ms  
Loss rate: 3.60%



Run 7: Report of PCC — Data Link

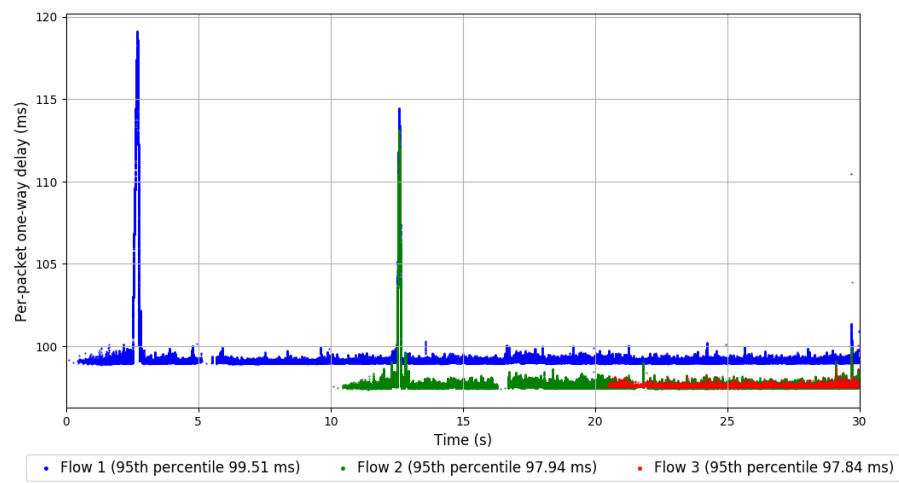
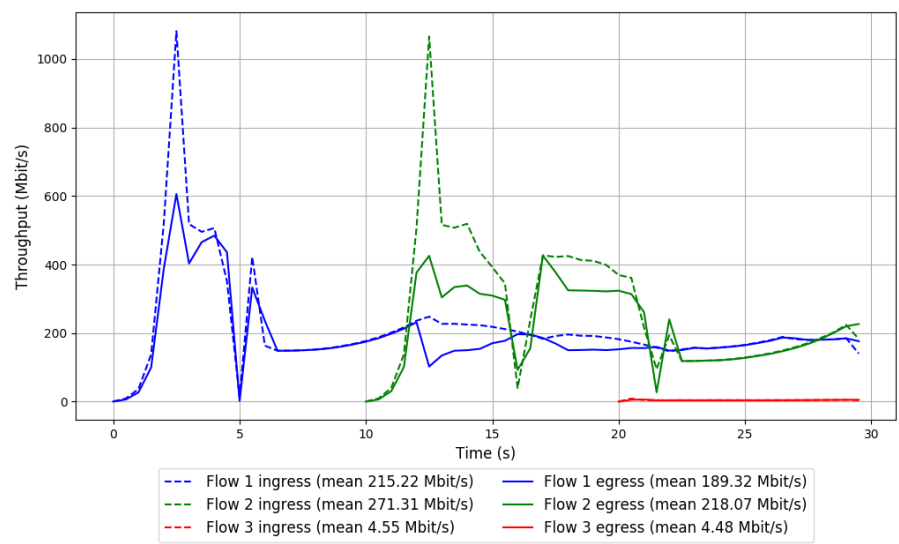


Run 8: Statistics of PCC

Start at: 2017-12-12 01:55:00  
End at: 2017-12-12 01:55:30  
Local clock offset: -3.22 ms  
Remote clock offset: 10.046 ms

# Below is generated by plot.py at 2017-12-12 03:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.74 Mbit/s  
95th percentile per-packet one-way delay: 99.294 ms  
Loss rate: 15.44%  
-- Flow 1:  
Average throughput: 189.32 Mbit/s  
95th percentile per-packet one-way delay: 99.506 ms  
Loss rate: 12.03%  
-- Flow 2:  
Average throughput: 218.07 Mbit/s  
95th percentile per-packet one-way delay: 97.943 ms  
Loss rate: 19.62%  
-- Flow 3:  
Average throughput: 4.48 Mbit/s  
95th percentile per-packet one-way delay: 97.843 ms  
Loss rate: 1.54%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-12 02:15:10

End at: 2017-12-12 02:15:40

Local clock offset: -3.033 ms

Remote clock offset: 8.13 ms

# Below is generated by plot.py at 2017-12-12 03:54:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 418.48 Mbit/s

95th percentile per-packet one-way delay: 96.682 ms

Loss rate: 9.30%

-- Flow 1:

Average throughput: 344.35 Mbit/s

95th percentile per-packet one-way delay: 96.607 ms

Loss rate: 9.48%

-- Flow 2:

Average throughput: 109.52 Mbit/s

95th percentile per-packet one-way delay: 96.752 ms

Loss rate: 8.46%

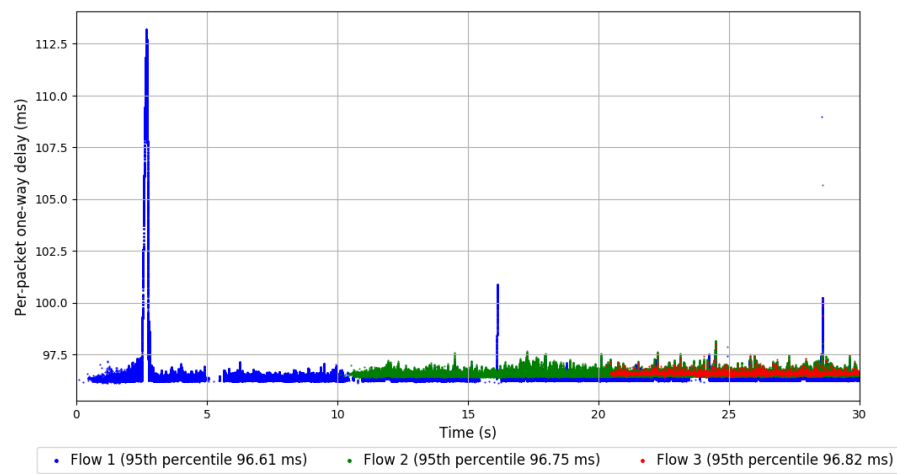
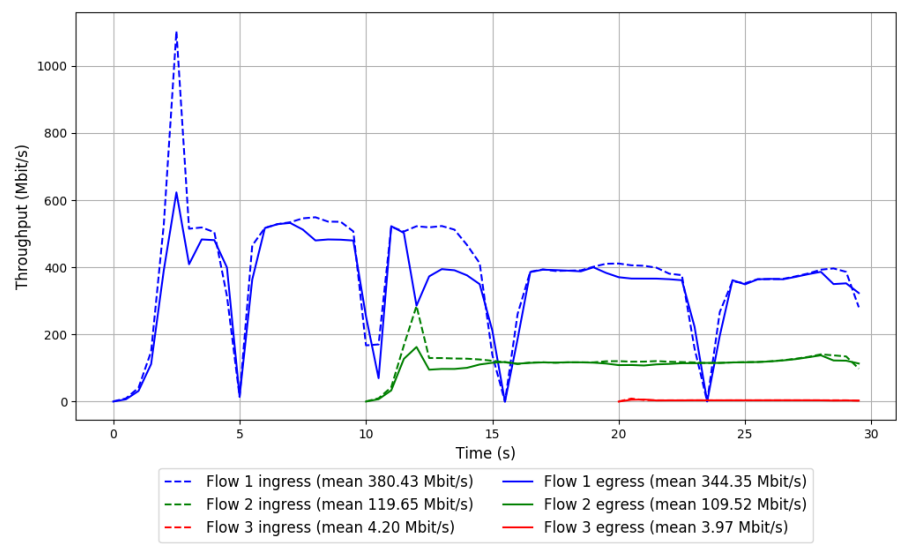
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 96.820 ms

Loss rate: 5.55%

Run 9: Report of PCC — Data Link

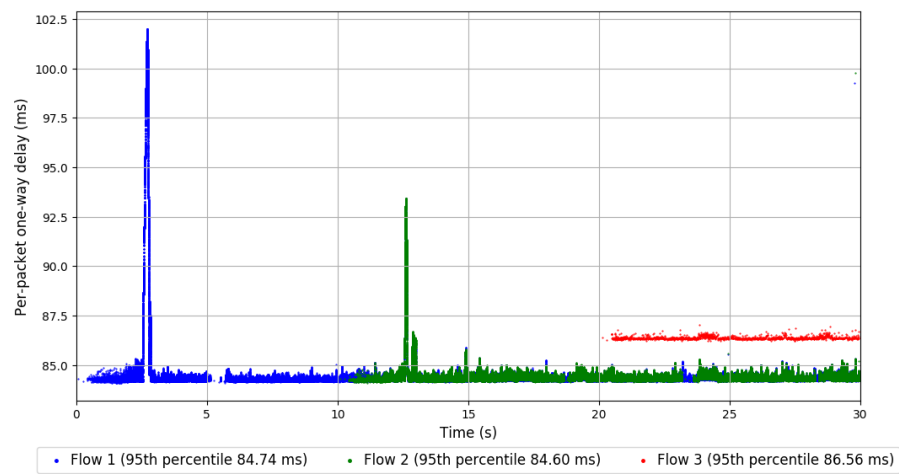
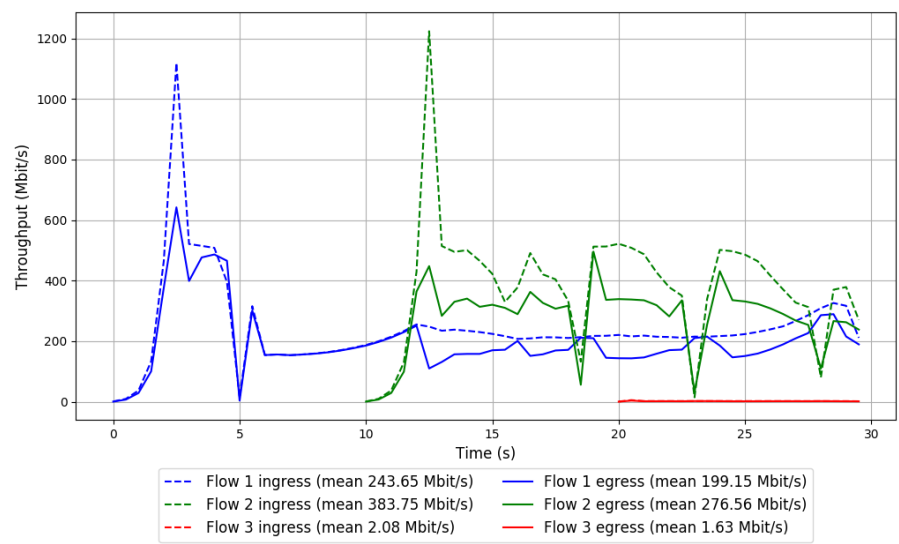


Run 10: Statistics of PCC

Start at: 2017-12-12 02:35:18  
End at: 2017-12-12 02:35:48  
Local clock offset: -2.296 ms  
Remote clock offset: -4.656 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 383.60 Mbit/s  
95th percentile per-packet one-way delay: 84.647 ms  
Loss rate: 23.21%  
-- Flow 1:  
Average throughput: 199.15 Mbit/s  
95th percentile per-packet one-way delay: 84.736 ms  
Loss rate: 18.26%  
-- Flow 2:  
Average throughput: 276.56 Mbit/s  
95th percentile per-packet one-way delay: 84.599 ms  
Loss rate: 27.93%  
-- Flow 3:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 86.561 ms  
Loss rate: 21.88%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 23:35:39

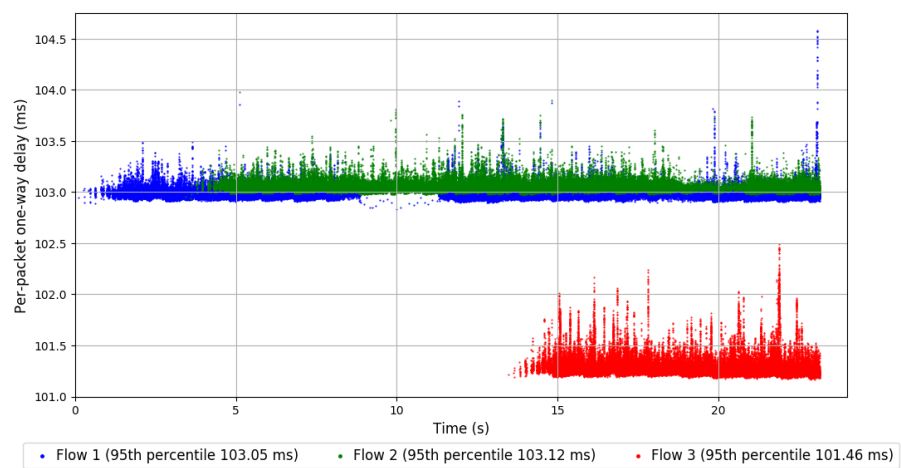
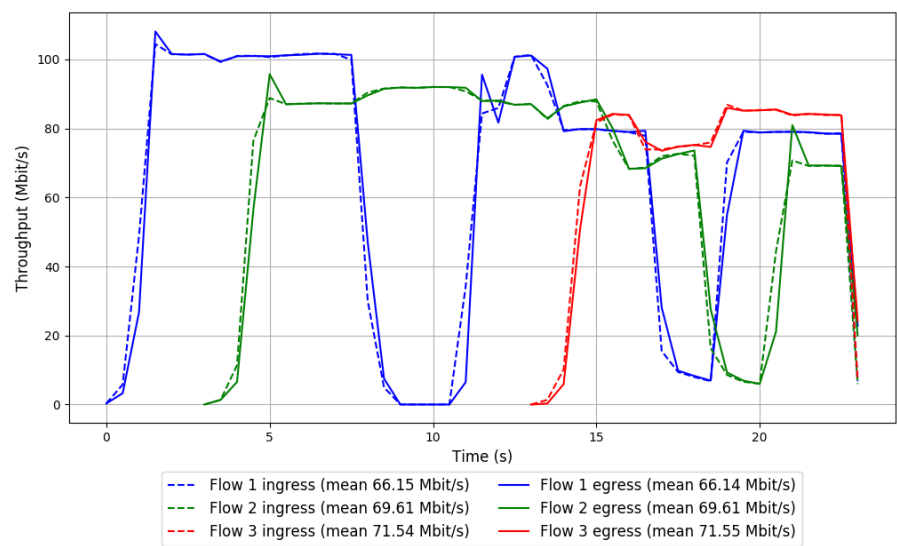
End at: 2017-12-11 23:36:09

Local clock offset: -1.722 ms

Remote clock offset: 17.152 ms



Run 1: Report of QUIC Cubic — Data Link

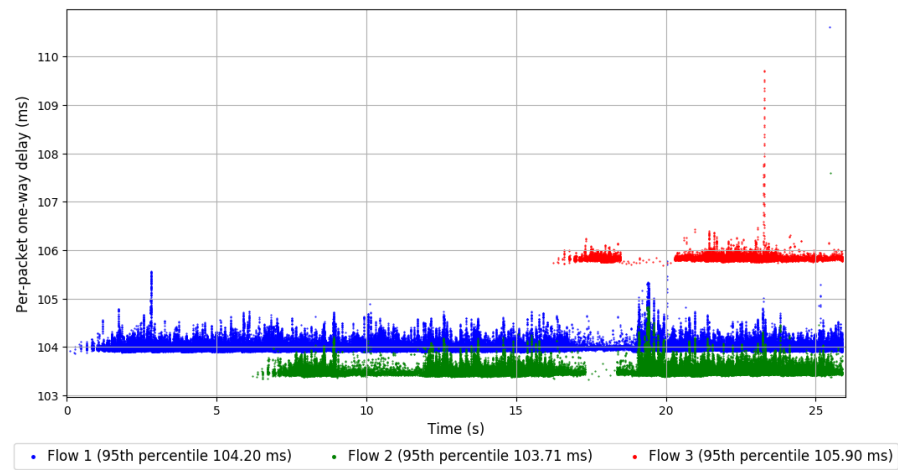
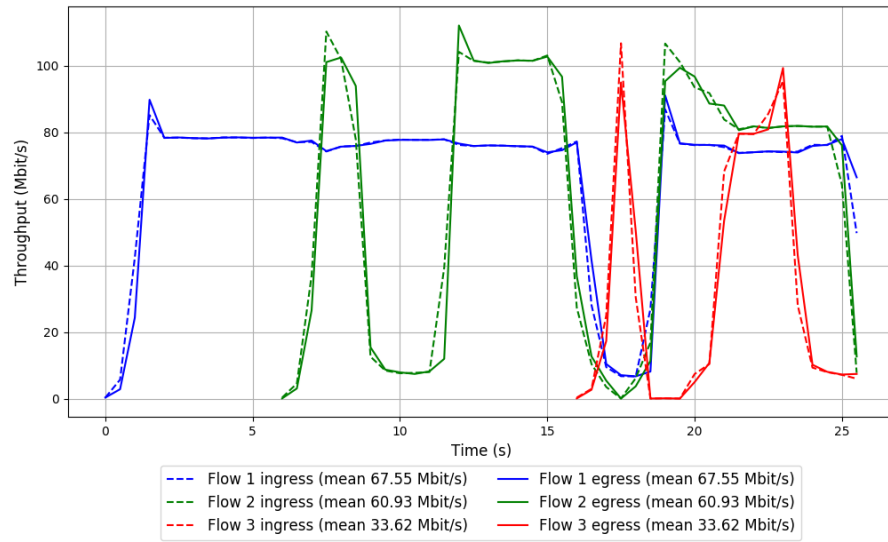


Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 23:55:50  
End at: 2017-12-11 23:56:20  
Local clock offset: -2.06 ms  
Remote clock offset: 20.218 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.70 Mbit/s  
95th percentile per-packet one-way delay: 105.829 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.55 Mbit/s  
95th percentile per-packet one-way delay: 104.199 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.93 Mbit/s  
95th percentile per-packet one-way delay: 103.708 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 33.62 Mbit/s  
95th percentile per-packet one-way delay: 105.902 ms  
Loss rate: 0.02%

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



Run 3: Statistics of QUIC Cubic

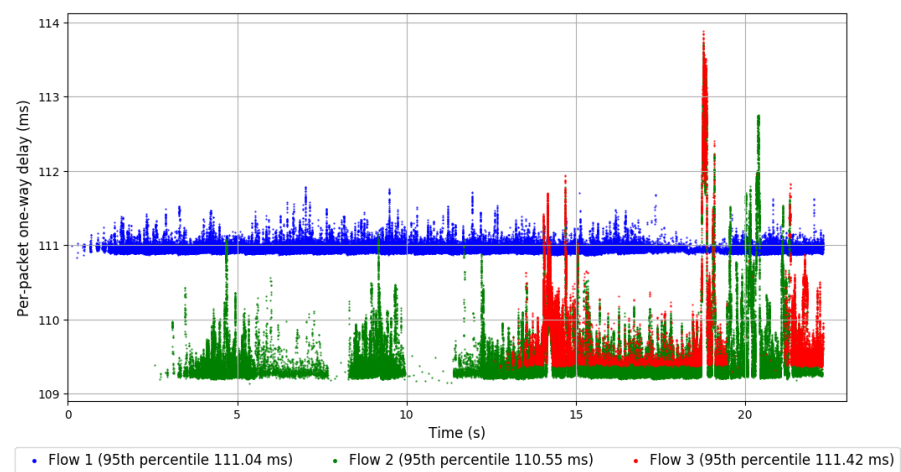
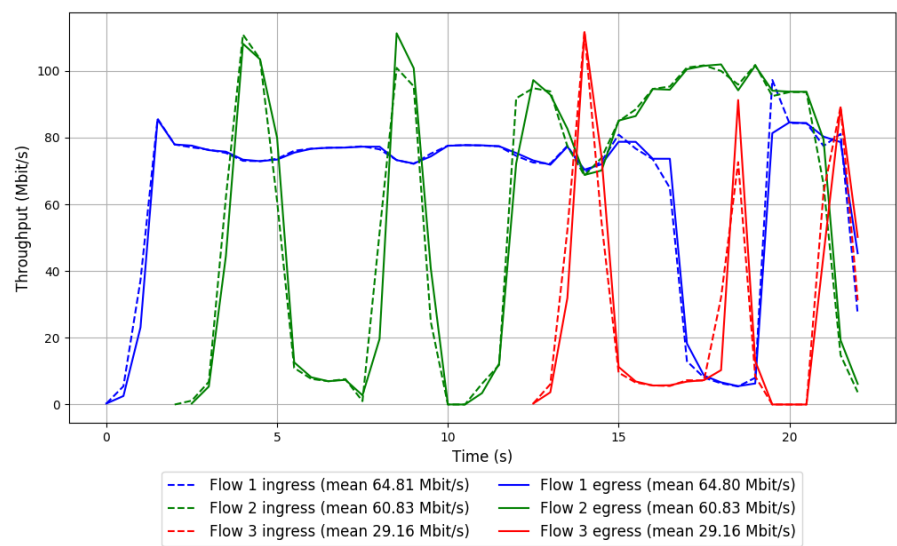
Start at: 2017-12-12 00:15:59

End at: 2017-12-12 00:16:29

Local clock offset: -2.372 ms

Remote clock offset: 25.02 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

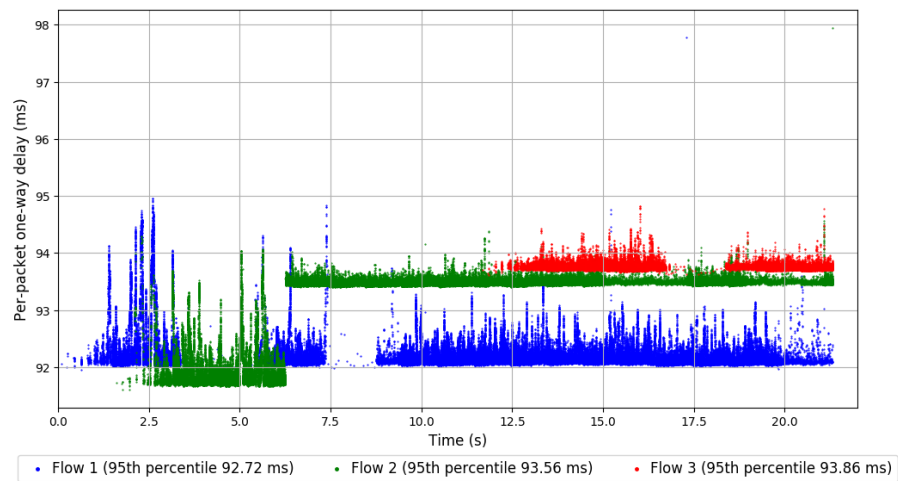
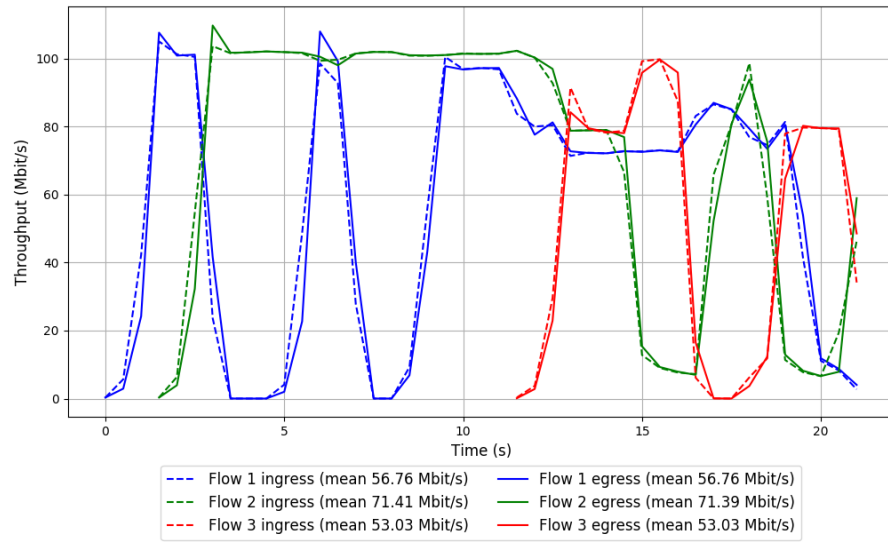
Start at: 2017-12-12 00:35:58

End at: 2017-12-12 00:36:28

Local clock offset: -2.971 ms

Remote clock offset: 6.789 ms

# Run 4: Report of QUIC Cubic — Data Link



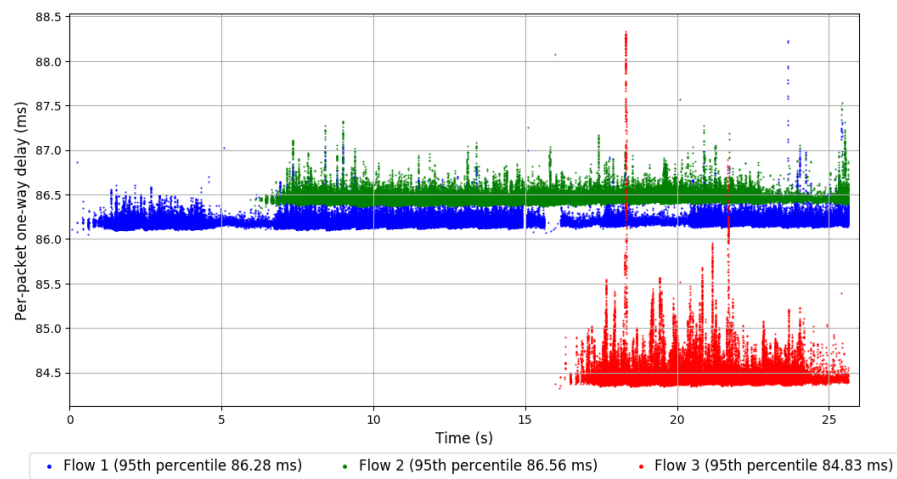
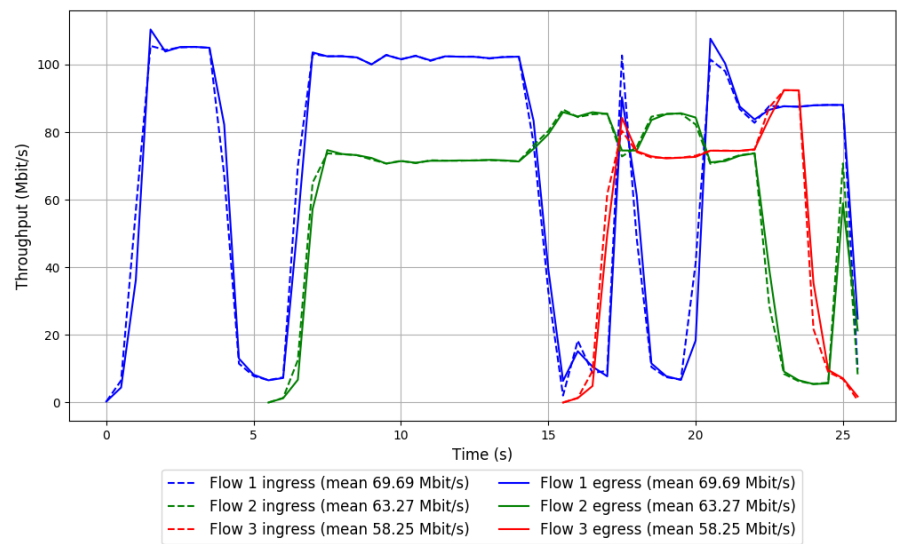
Run 5: Statistics of QUIC Cubic

Start at: 2017-12-12 00:55:58  
End at: 2017-12-12 00:56:28  
Local clock offset: -3.712 ms  
Remote clock offset: -1.325 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.49 Mbit/s  
95th percentile per-packet one-way delay: 86.501 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.69 Mbit/s  
95th percentile per-packet one-way delay: 86.283 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.27 Mbit/s  
95th percentile per-packet one-way delay: 86.559 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 58.25 Mbit/s  
95th percentile per-packet one-way delay: 84.825 ms  
Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link

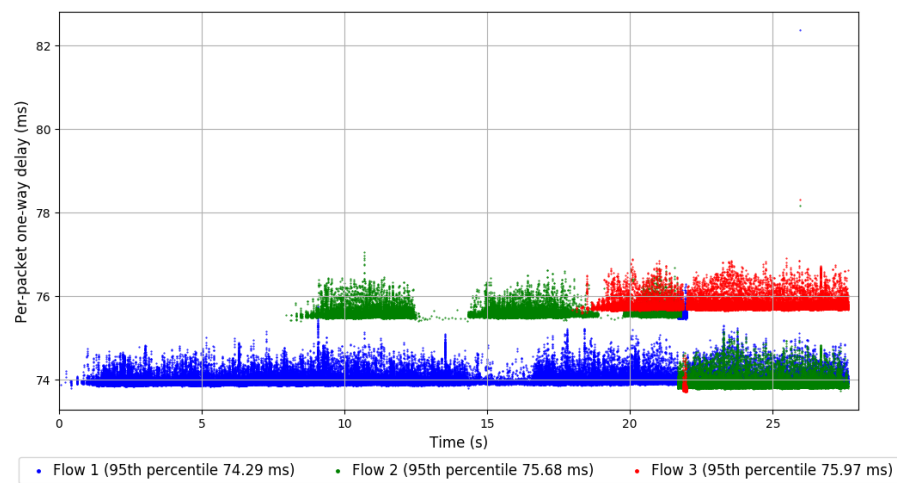
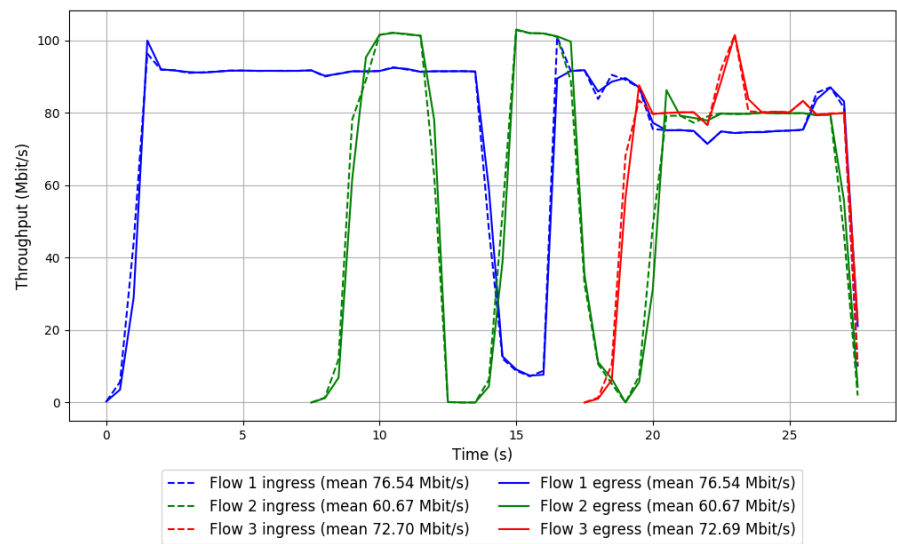


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-12 01:16:04  
End at: 2017-12-12 01:16:34  
Local clock offset: -2.94 ms  
Remote clock offset: -12.467 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 145.39 Mbit/s  
95th percentile per-packet one-way delay: 75.775 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 76.54 Mbit/s  
95th percentile per-packet one-way delay: 74.287 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.67 Mbit/s  
95th percentile per-packet one-way delay: 75.678 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 72.69 Mbit/s  
95th percentile per-packet one-way delay: 75.972 ms  
Loss rate: 0.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

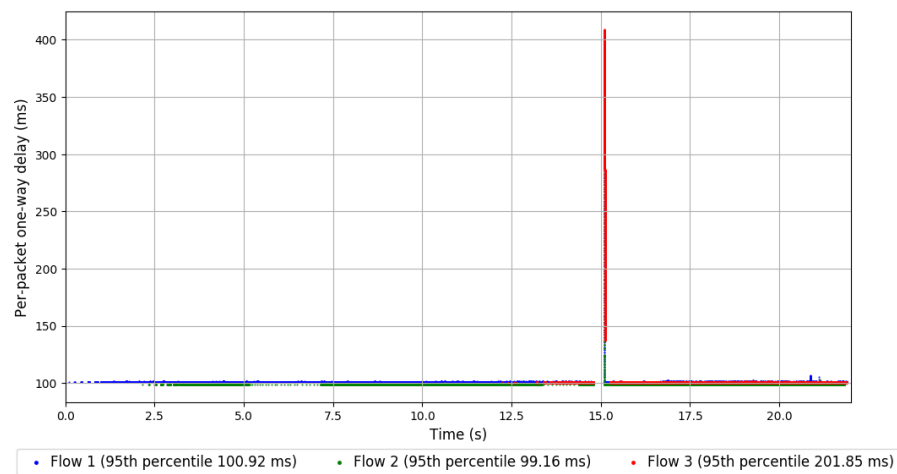
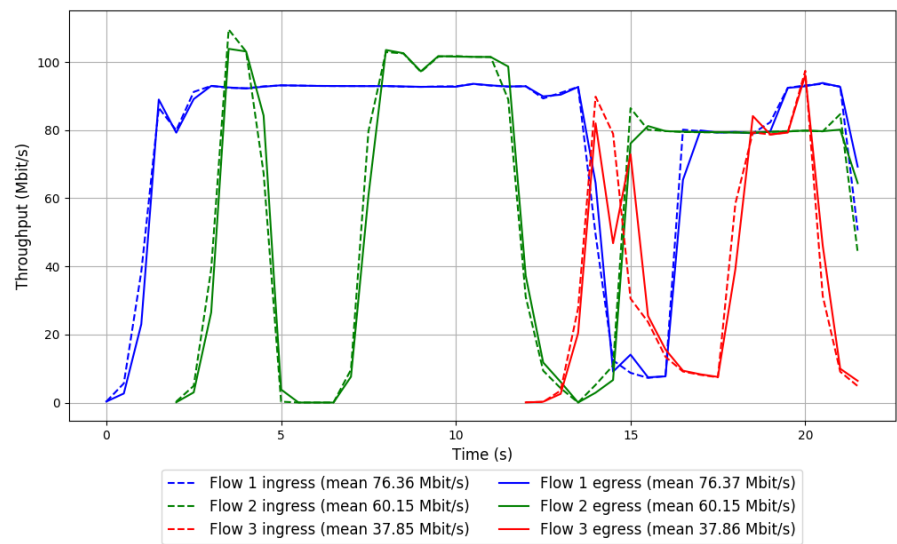
Start at: 2017-12-12 01:36:27

End at: 2017-12-12 01:36:57

Local clock offset: -2.753 ms

Remote clock offset: 12.131 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-12 01:56:29

End at: 2017-12-12 01:56:59

Local clock offset: -3.233 ms

Remote clock offset: 4.53 ms

# Below is generated by plot.py at 2017-12-12 03:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.21 Mbit/s

95th percentile per-packet one-way delay: 93.686 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 93.762 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.02 Mbit/s

95th percentile per-packet one-way delay: 92.059 ms

Loss rate: 0.00%

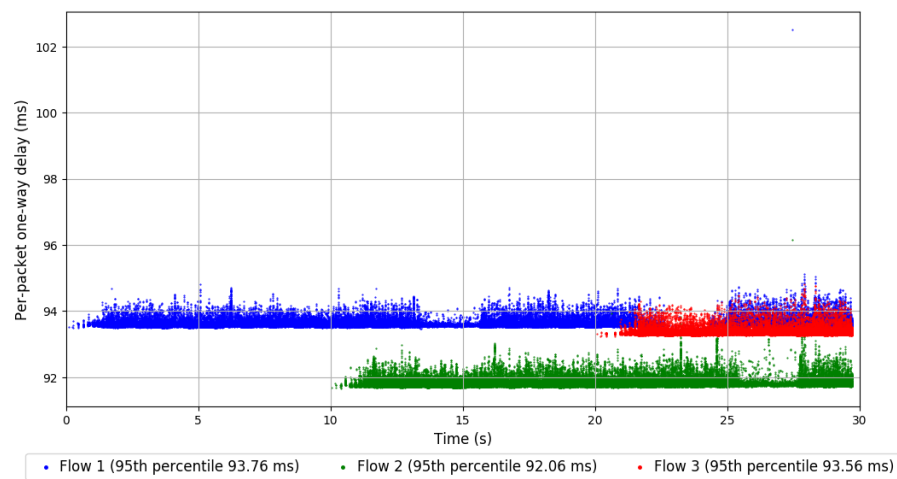
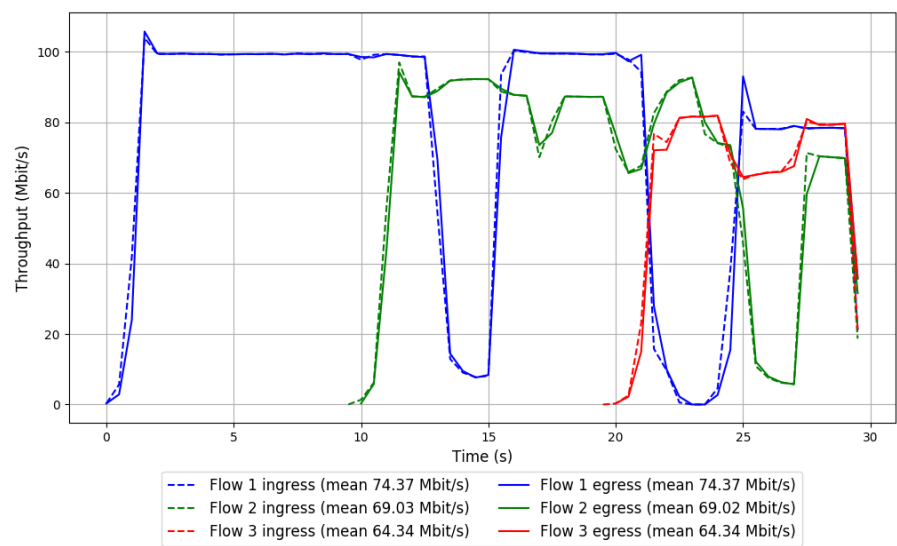
-- Flow 3:

Average throughput: 64.34 Mbit/s

95th percentile per-packet one-way delay: 93.556 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-12 02:16:42

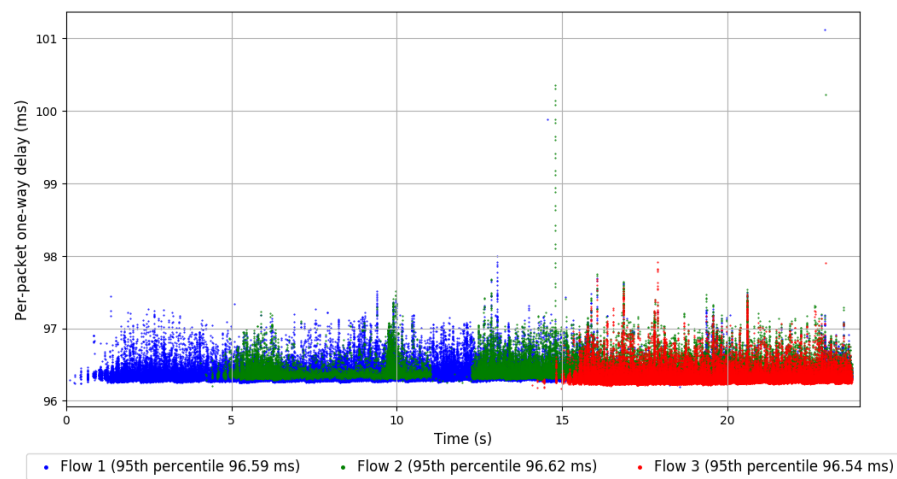
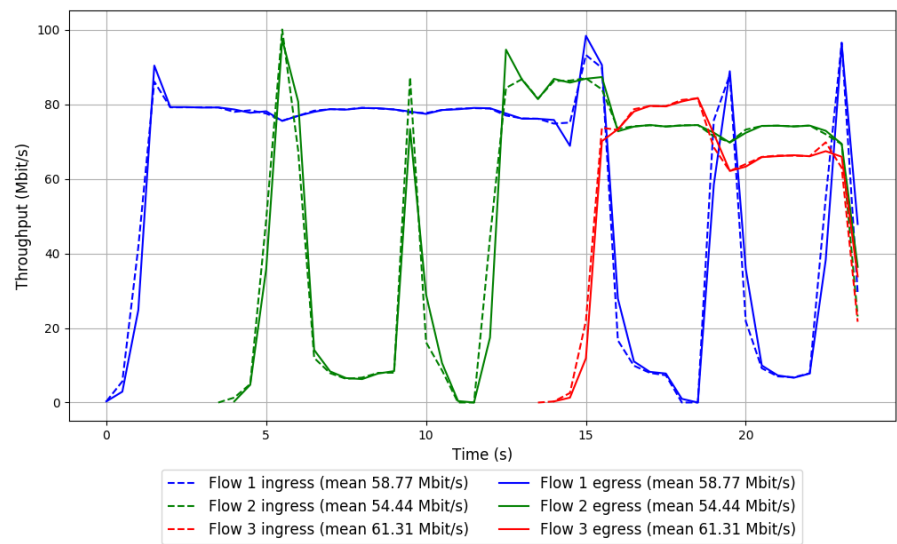
End at: 2017-12-12 02:17:12

Local clock offset: -2.95 ms

Remote clock offset: 7.871 ms



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

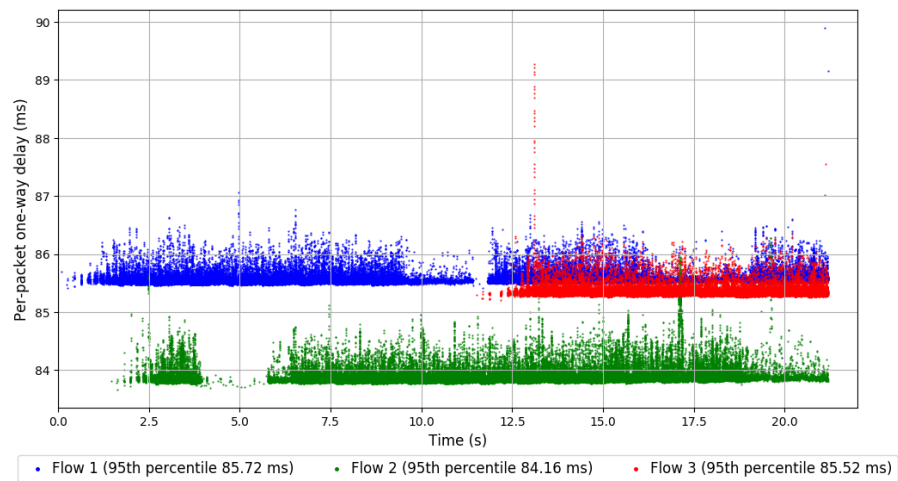
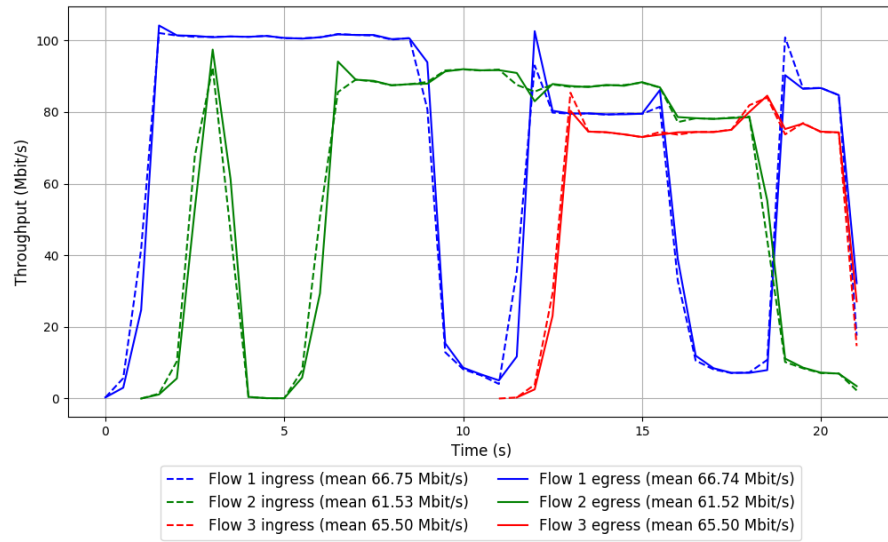
Start at: 2017-12-12 02:36:50

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

Local clock offset: -2.215 ms

Remote clock offset: -5.114 ms

# Run 10: Report of QUIC Cubic — Data Link

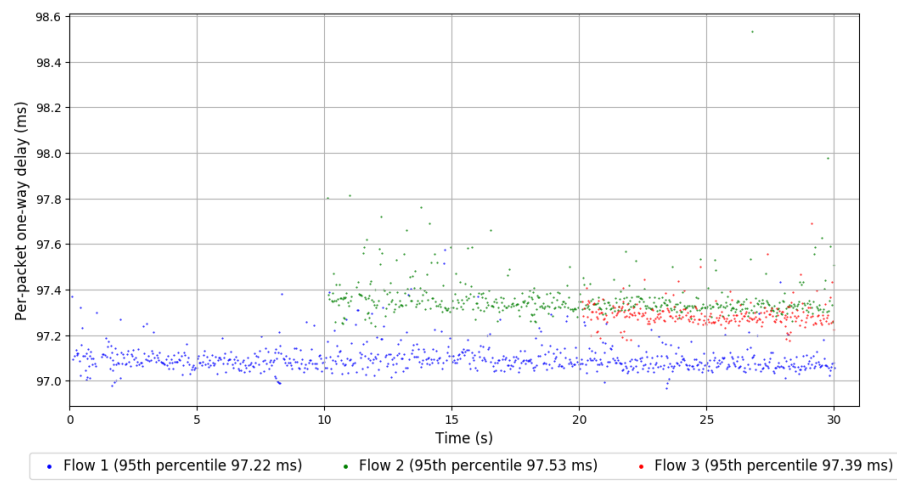
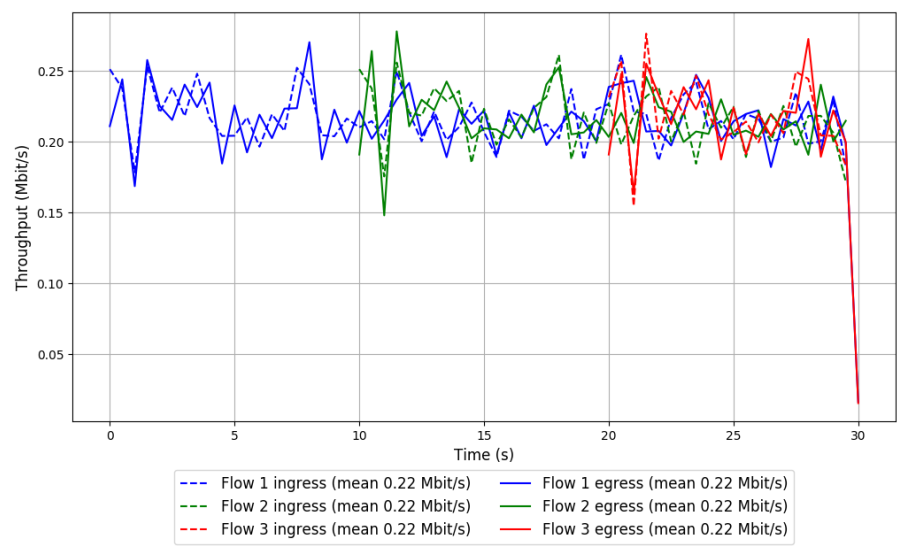


```
Run 1: Statistics of SReAM

Start at: 2017-12-11 23:21:00
End at: 2017-12-11 23:21:30
Local clock offset: -0.936 ms
Remote clock offset: 12.801 ms

# Below is generated by plot.py at 2017-12-12 03:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 97.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.215 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.532 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 97.386 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

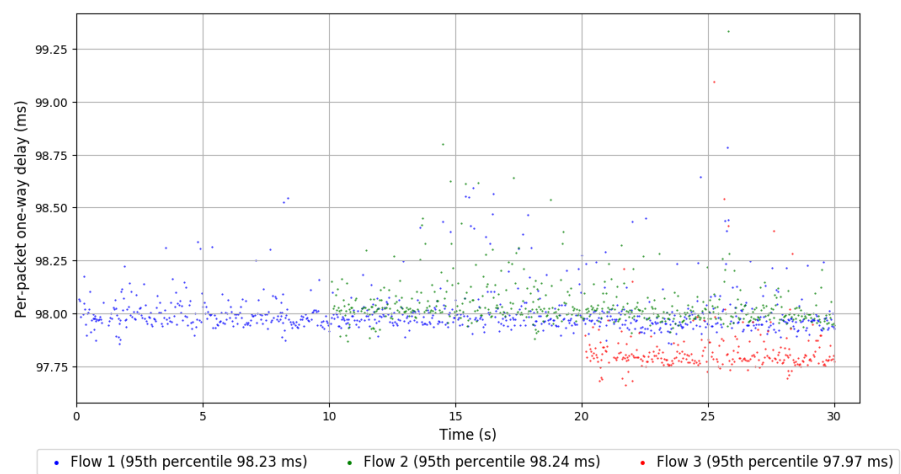
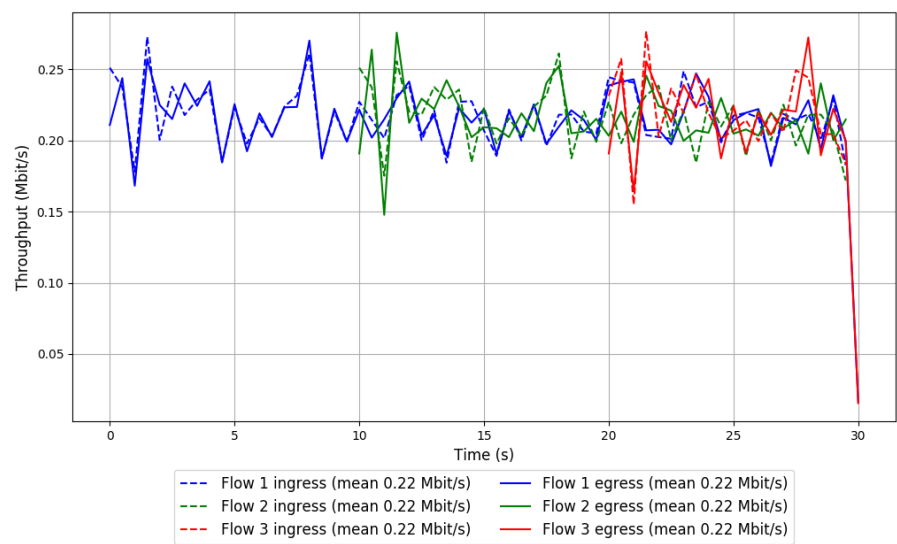


Run 2: Statistics of SReAM

Start at: 2017-12-11 23:41:03  
End at: 2017-12-11 23:41:33  
Local clock offset: -2.006 ms  
Remote clock offset: 13.957 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 98.224 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 98.235 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 98.243 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 97.967 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



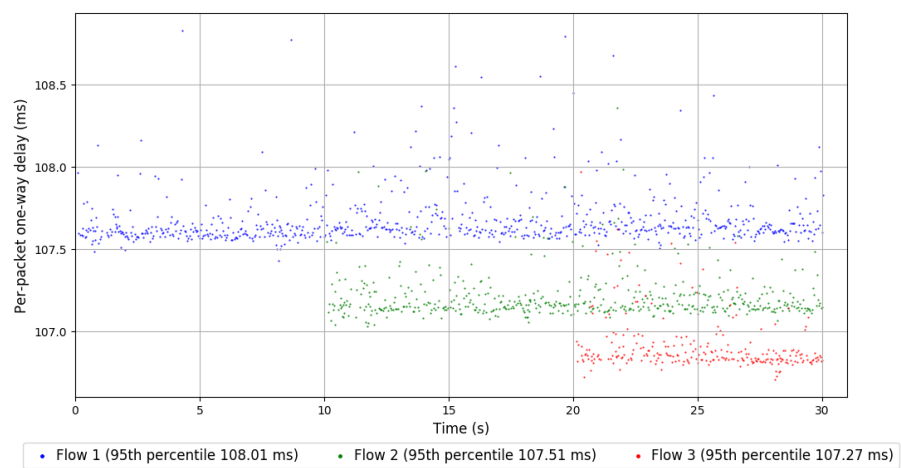
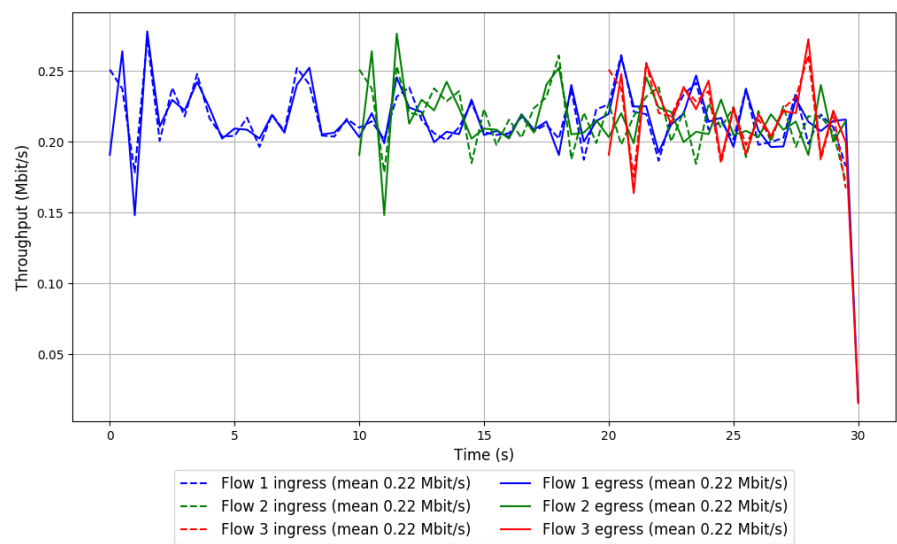
Run 3: Statistics of SReAM

Start at: 2017-12-12 00:01:14  
End at: 2017-12-12 00:01:44  
Local clock offset: -1.986 ms  
Remote clock offset: 23.49 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 107.888 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 108.007 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 107.513 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 107.271 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

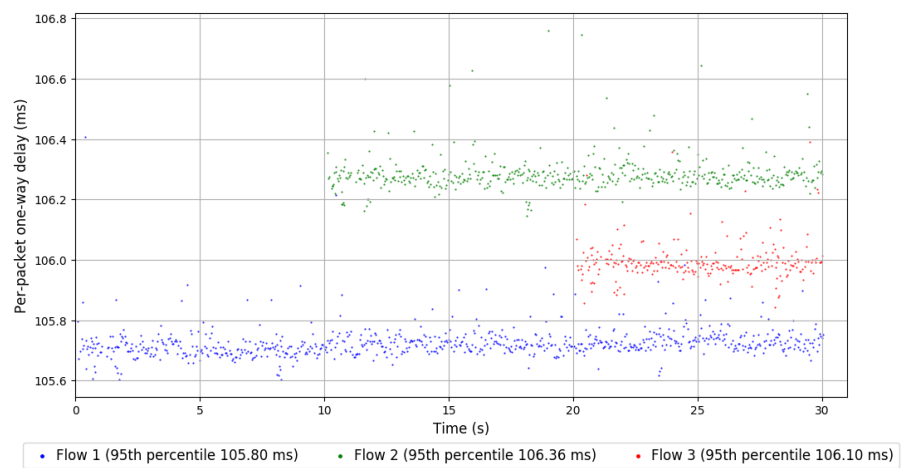
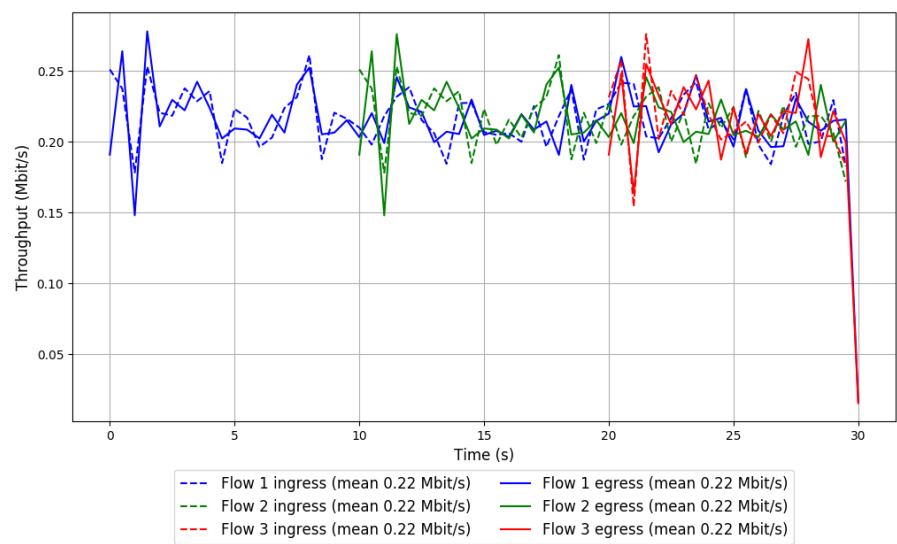


Run 4: Statistics of SReAM

Start at: 2017-12-12 00:21:19  
End at: 2017-12-12 00:21:49  
Local clock offset: -2.541 ms  
Remote clock offset: 19.778 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 106.310 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 105.796 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 106.363 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 106.100 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

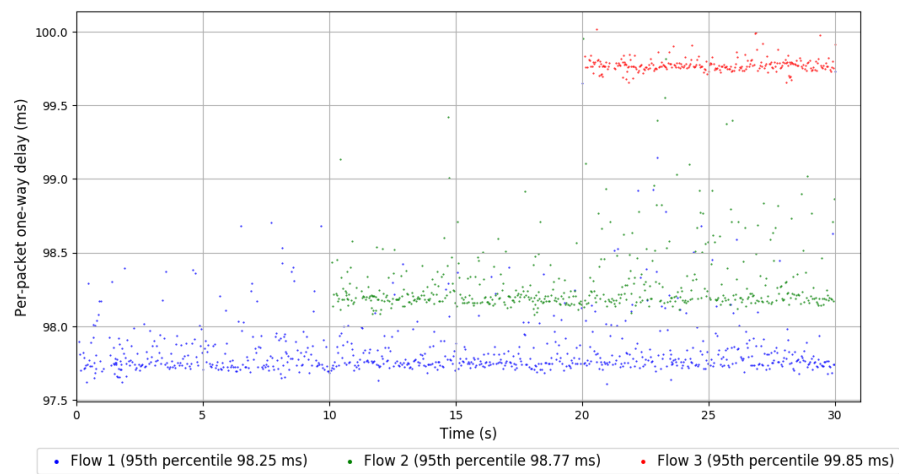
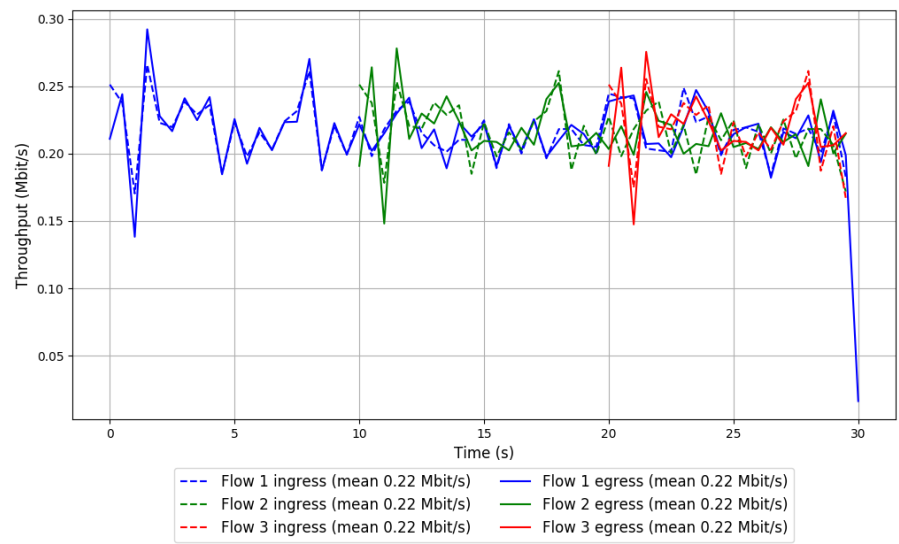


Run 5: Statistics of SReAM

Start at: 2017-12-12 00:41:19  
End at: 2017-12-12 00:41:49  
Local clock offset: -3.084 ms  
Remote clock offset: 12.886 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 99.785 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 98.251 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 98.770 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 99.847 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

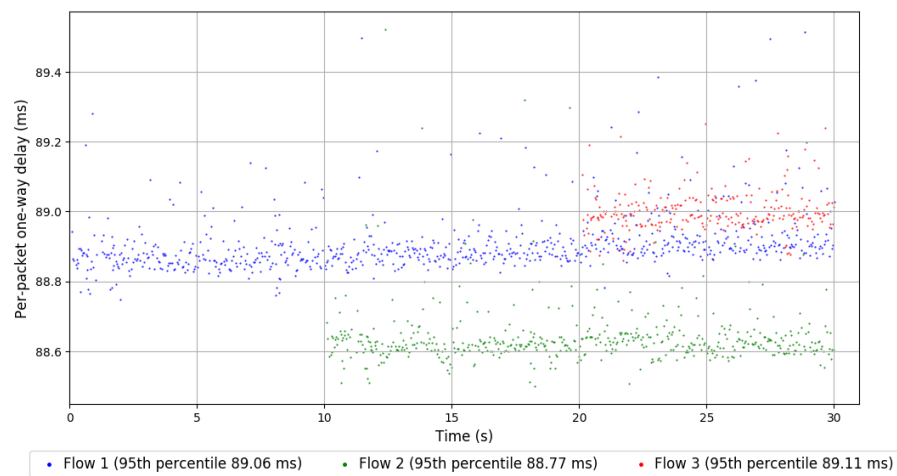
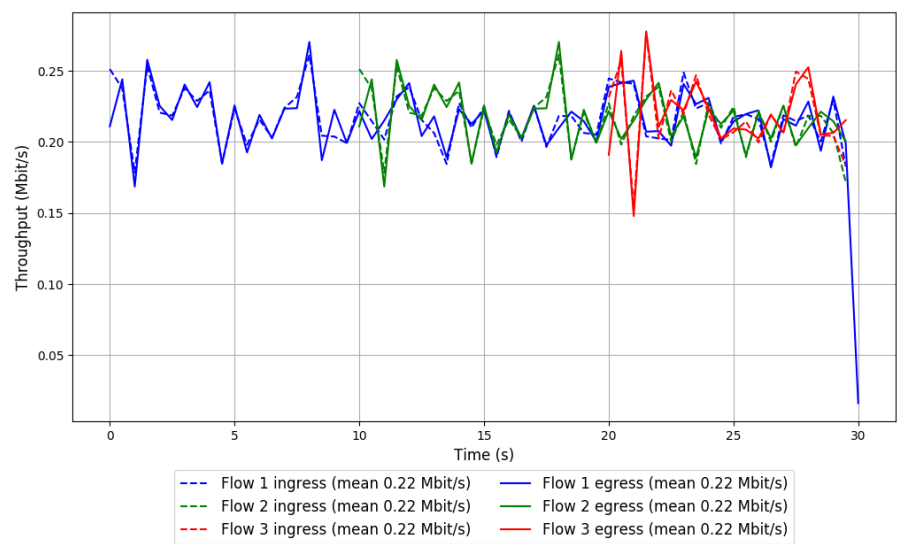


Run 6: Statistics of SReAM

Start at: 2017-12-12 01:01:21  
End at: 2017-12-12 01:01:51  
Local clock offset: -3.438 ms  
Remote clock offset: 1.33 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 89.051 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 89.060 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 88.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 89.112 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



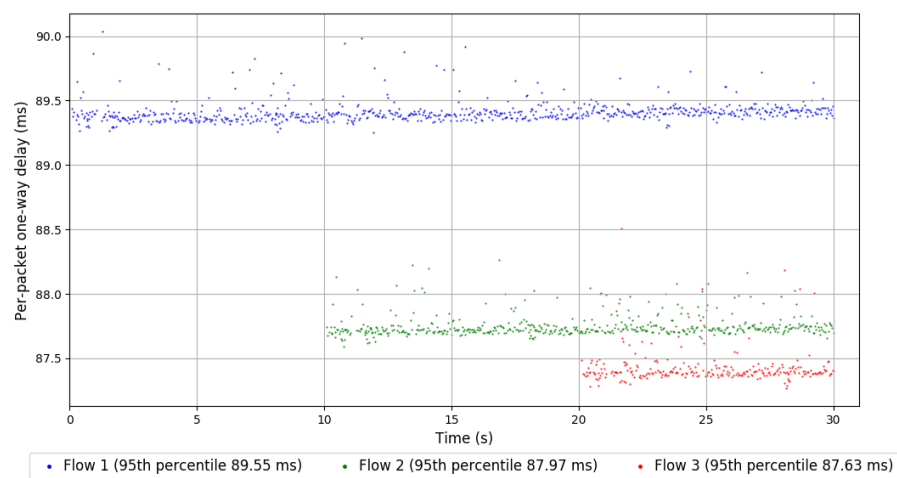
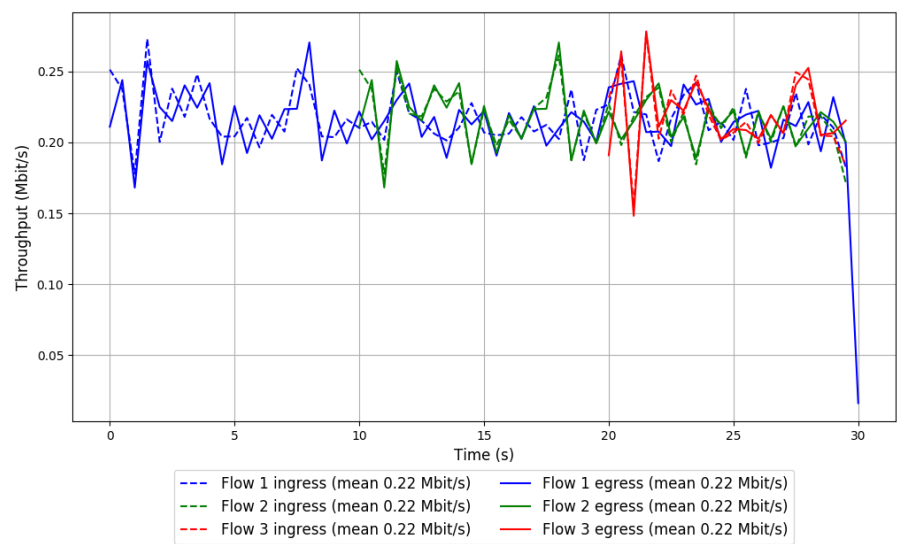
Run 7: Statistics of SReAM

Start at: 2017-12-12 01:21:30  
End at: 2017-12-12 01:22:00  
Local clock offset: -2.836 ms  
Remote clock offset: 0.844 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 89.467 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 89.550 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.970 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.630 ms  
Loss rate: 0.00%



Run 7: Report of SCReAM — Data Link

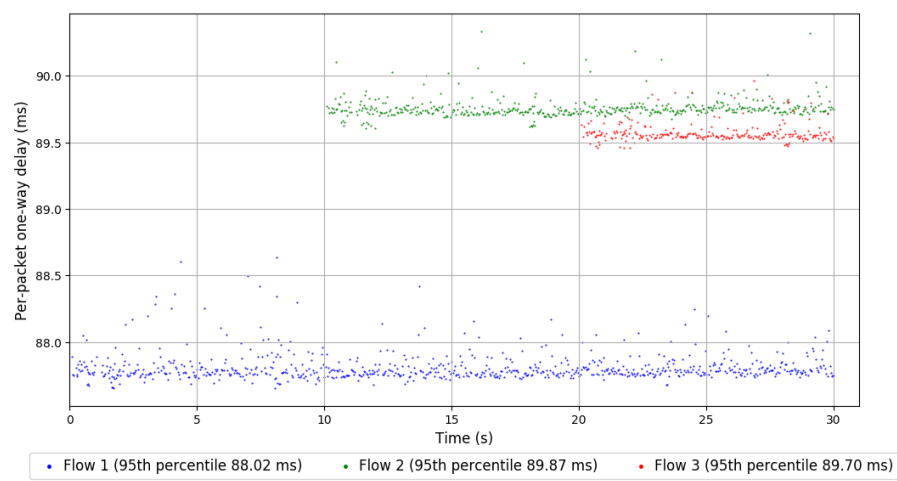
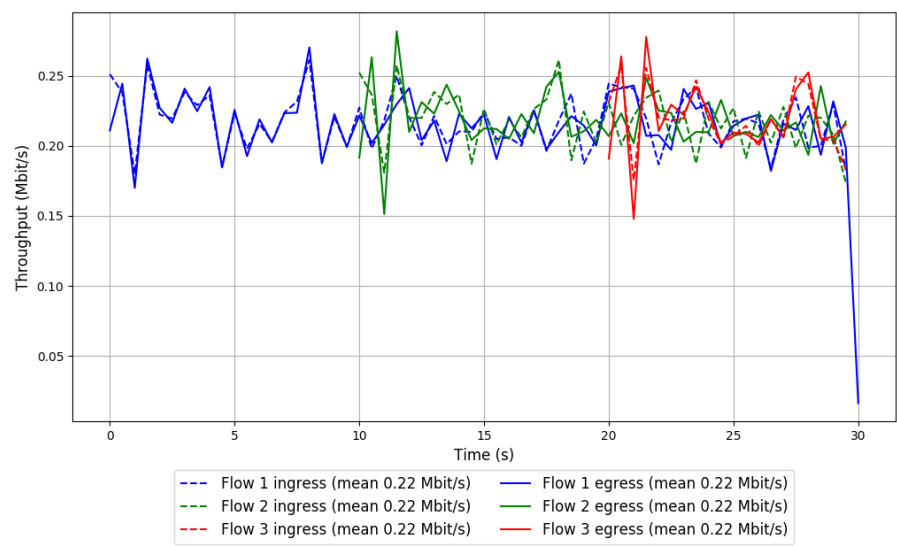


Run 8: Statistics of SReAM

Start at: 2017-12-12 01:41:50  
End at: 2017-12-12 01:42:20  
Local clock offset: -2.976 ms  
Remote clock offset: 0.97 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 89.798 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 88.017 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 89.869 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 89.699 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

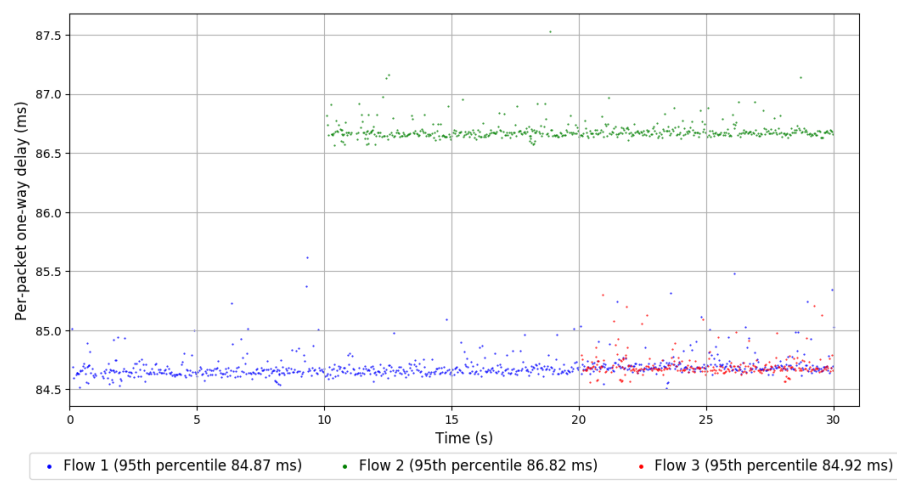
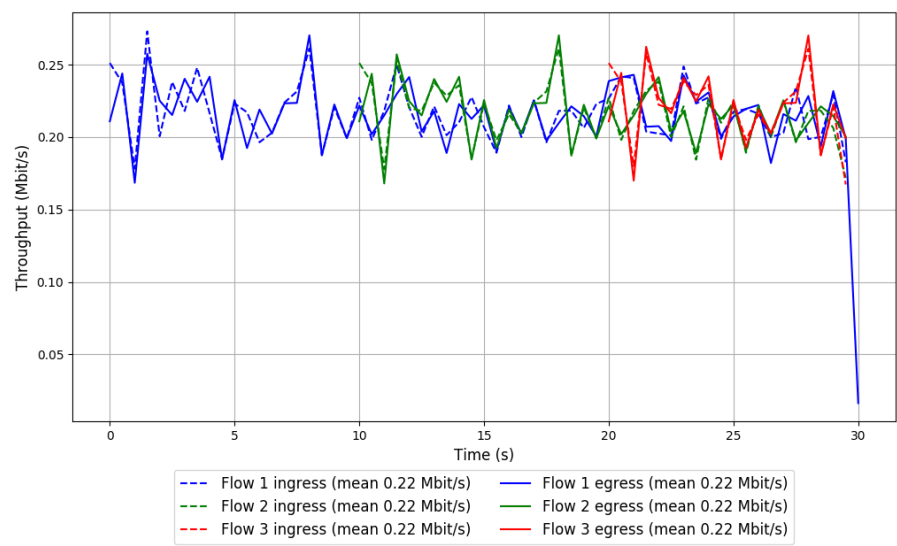


Run 9: Statistics of SReAM

Start at: 2017-12-12 02:02:00  
End at: 2017-12-12 02:02:30  
Local clock offset: -3.348 ms  
Remote clock offset: -3.046 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 86.714 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.873 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.822 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.915 ms  
Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-12 02:22:07

End at: 2017-12-12 02:22:37

Local clock offset: -2.791 ms

Remote clock offset: -8.59 ms

# Below is generated by plot.py at 2017-12-12 03:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 81.895 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.708 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.638 ms

Loss rate: 0.00%

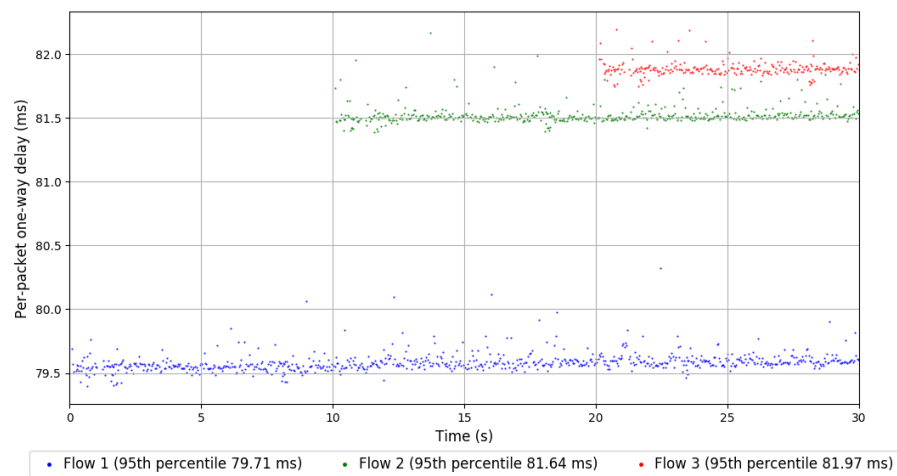
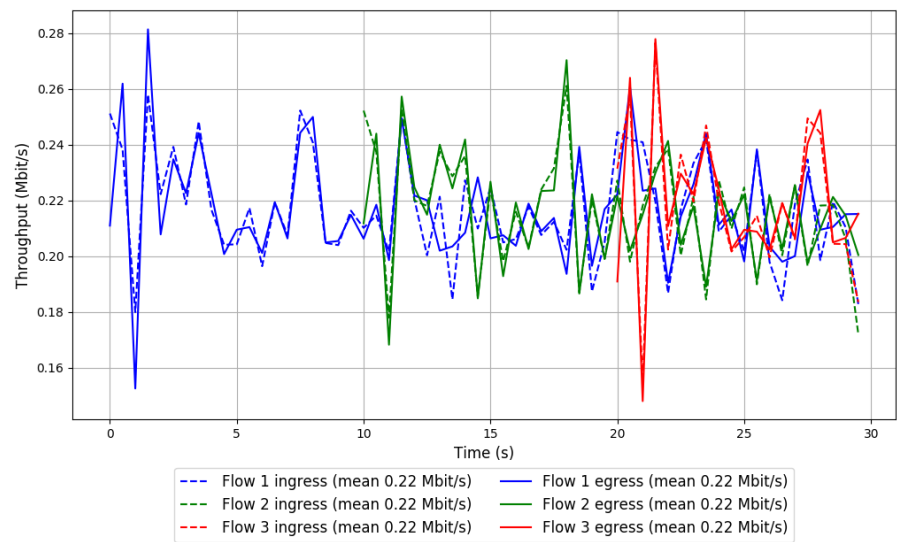
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.968 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-11 23:19:45

End at: 2017-12-11 23:20:15

Local clock offset: -0.841 ms

Remote clock offset: 7.227 ms

# Below is generated by plot.py at 2017-12-12 03:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 93.480 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.497 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 91.863 ms

Loss rate: 0.00%

-- Flow 3:

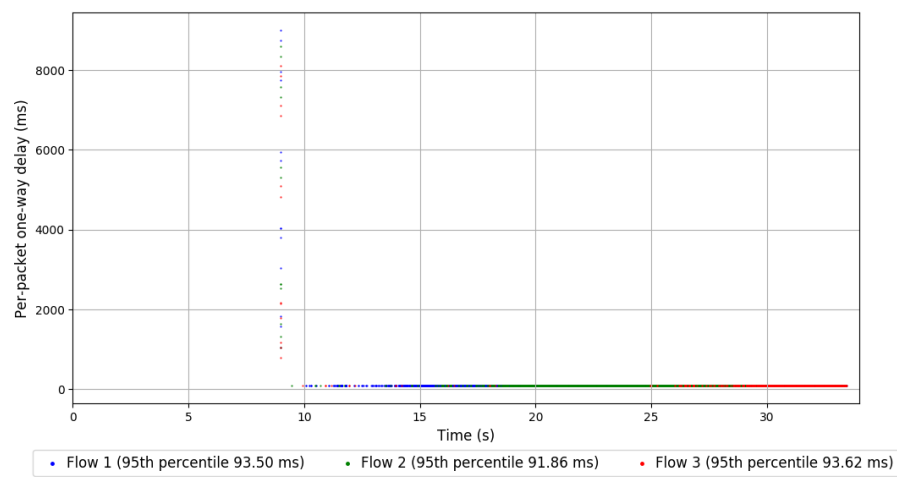
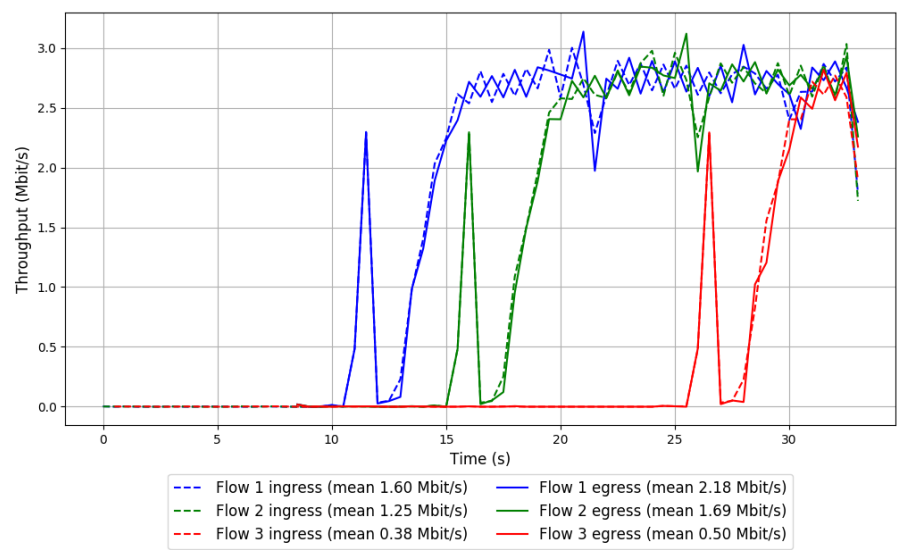
Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 93.622 ms

Loss rate: 0.63%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

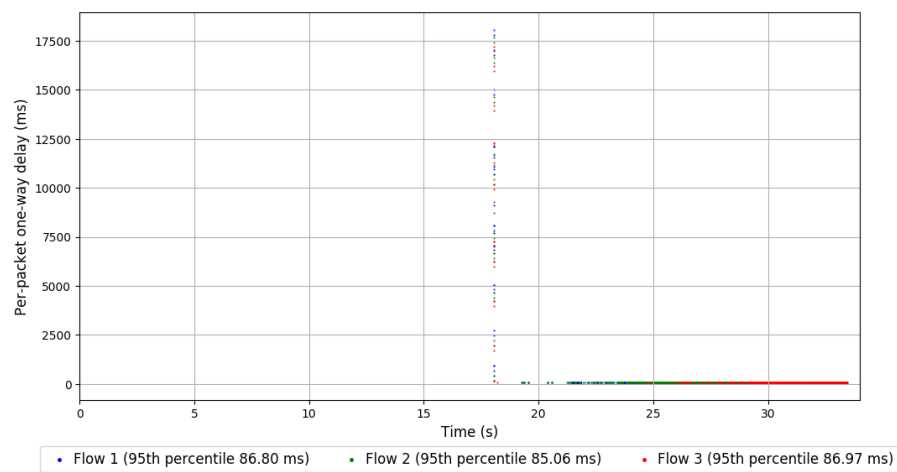
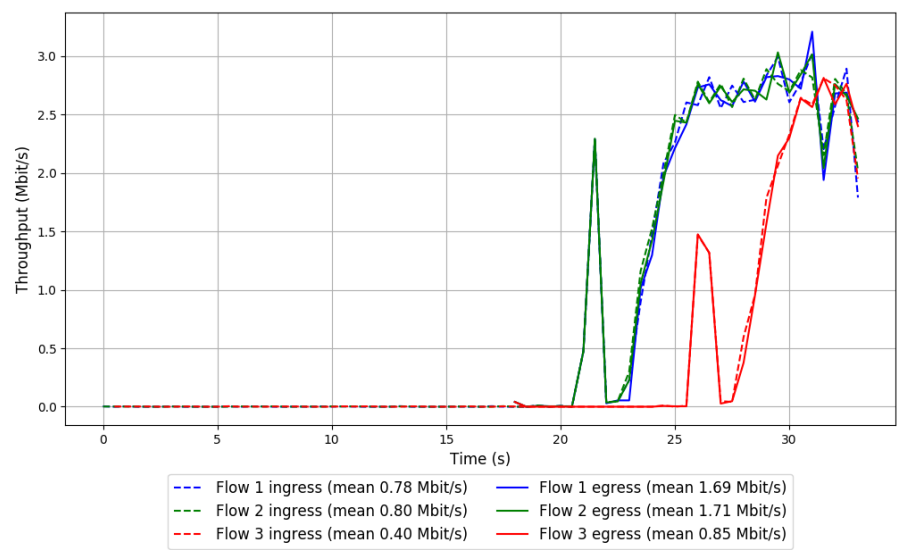
Start at: 2017-12-11 23:39:49

End at: 2017-12-11 23:40:19

Local clock offset: -1.953 ms

Remote clock offset: 0.841 ms

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

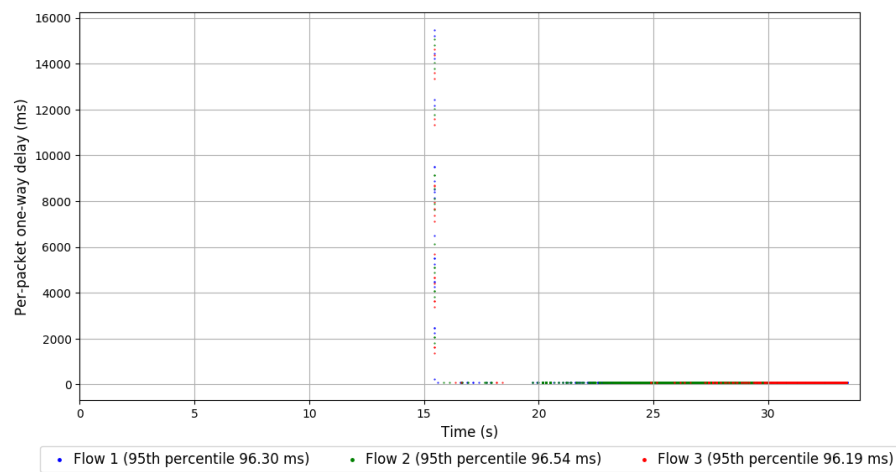
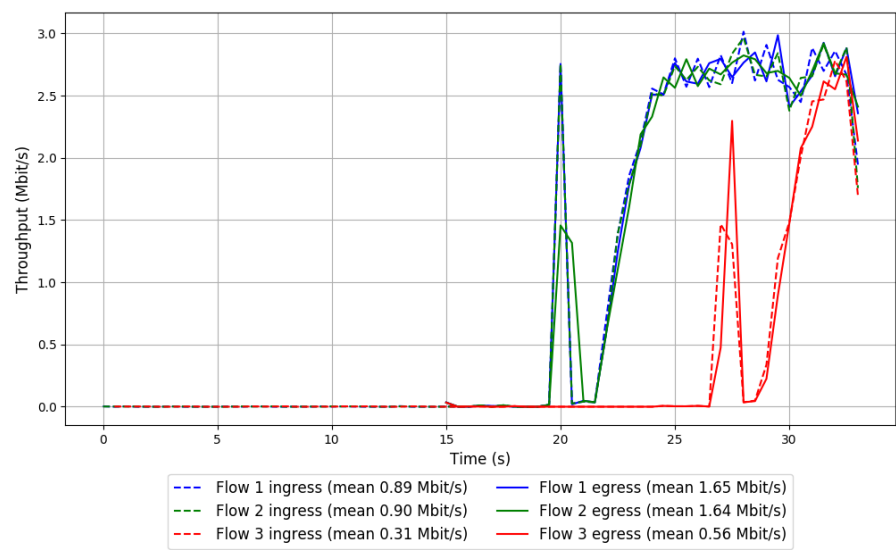
Start at: 2017-12-12 00:00:00

End at: 2017-12-12 00:00:30

Local clock offset: -1.998 ms

Remote clock offset: 11.995 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

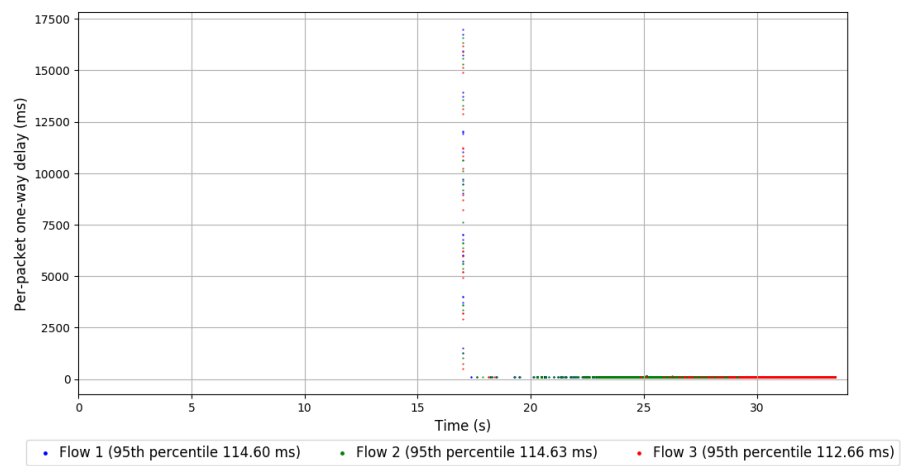
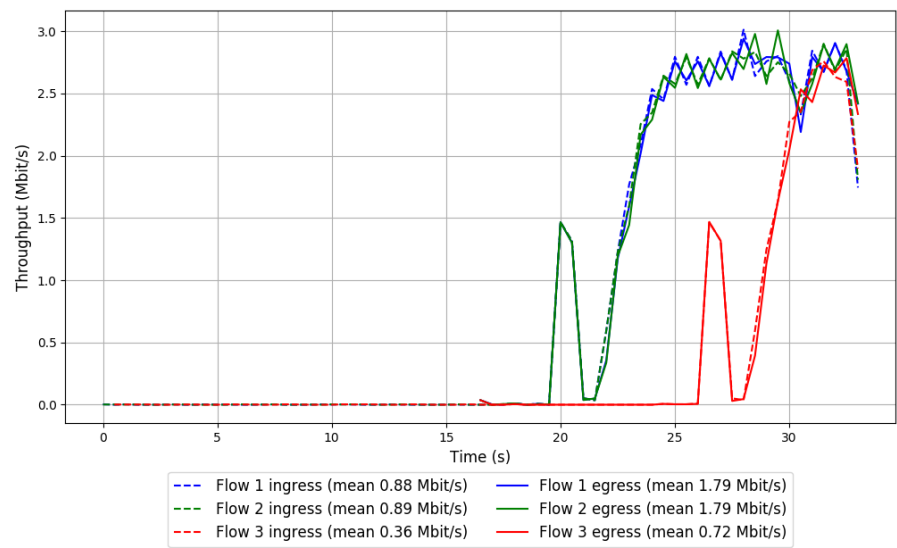
Start at: 2017-12-12 00:20:04

End at: 2017-12-12 00:20:34

Local clock offset: -2.506 ms

Remote clock offset: 27.731 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-12 00:40:05

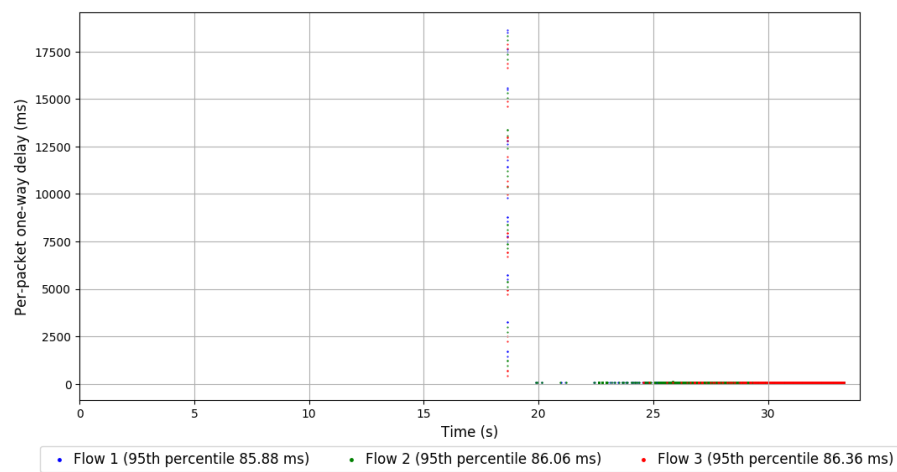
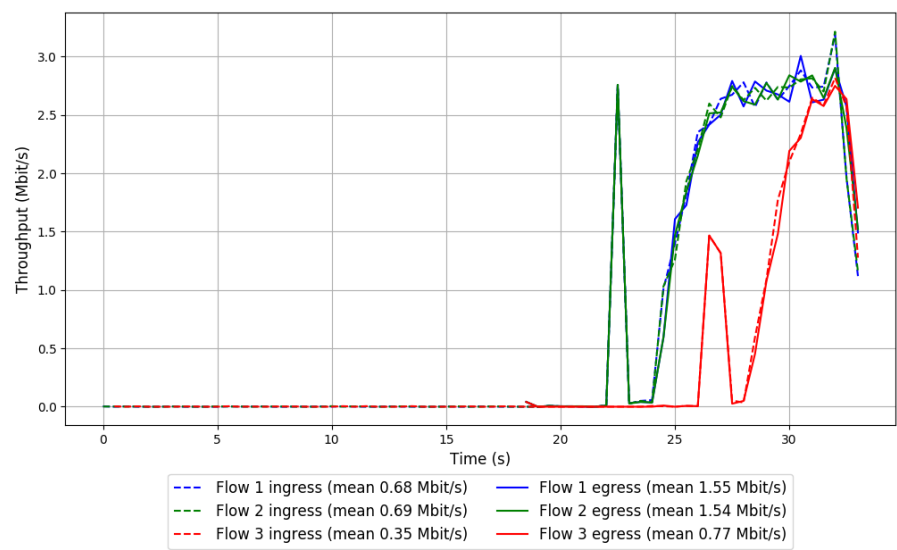
End at: 2017-12-12 00:40:35

Local clock offset: -3.024 ms

Remote clock offset: 0.236 ms



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

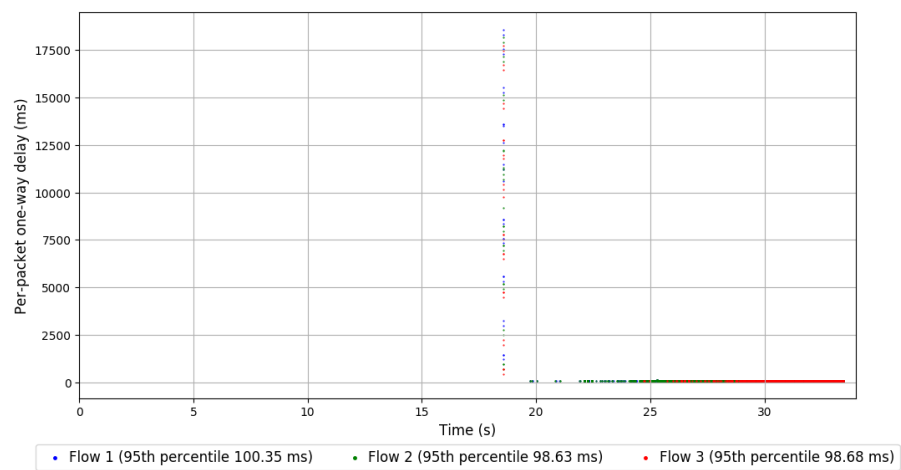
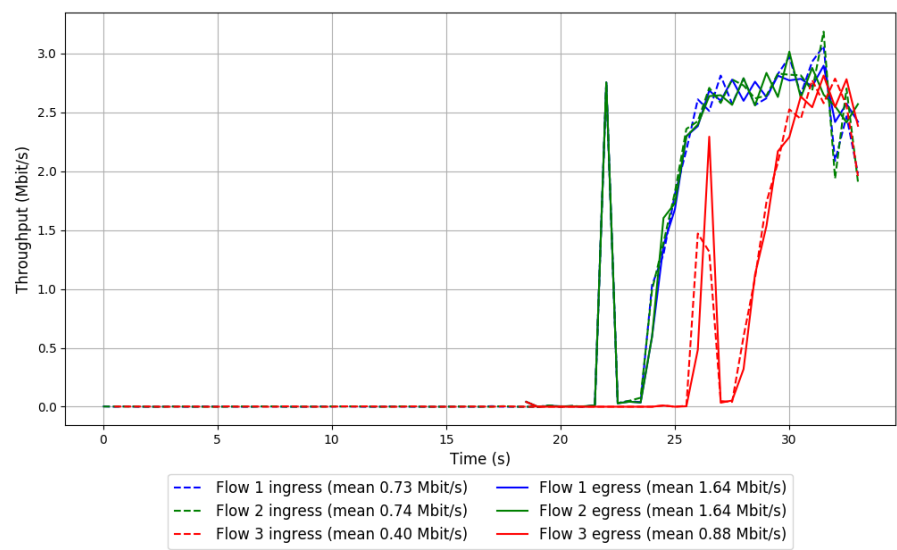
Start at: 2017-12-12 01:00:07

End at: 2017-12-12 01:00:37

Local clock offset: -3.482 ms

Remote clock offset: 12.104 ms

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

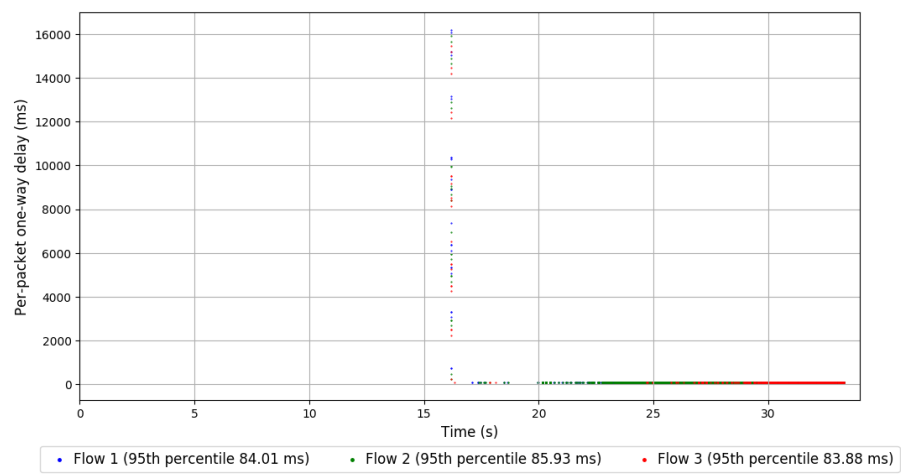
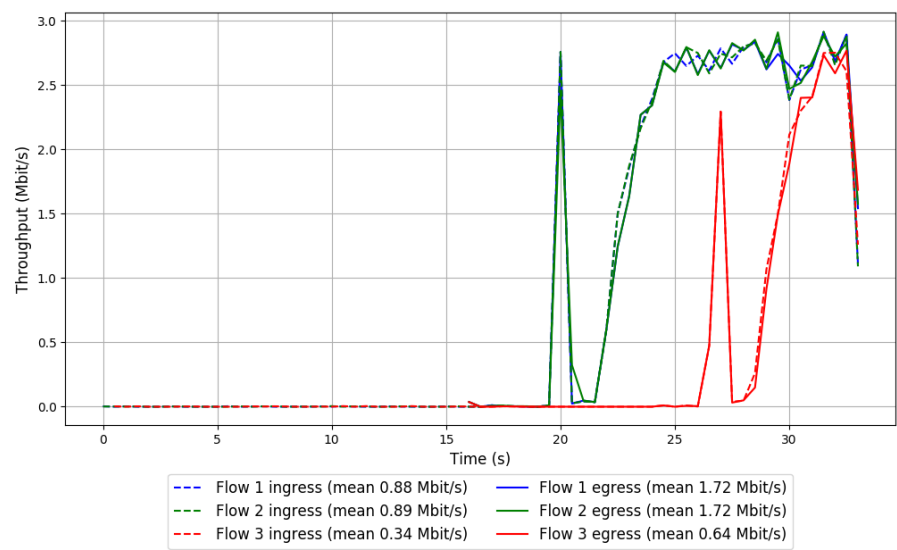
Start at: 2017-12-12 01:20:16

End at: 2017-12-12 01:20:46

Local clock offset: -2.845 ms

Remote clock offset: -2.938 ms

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

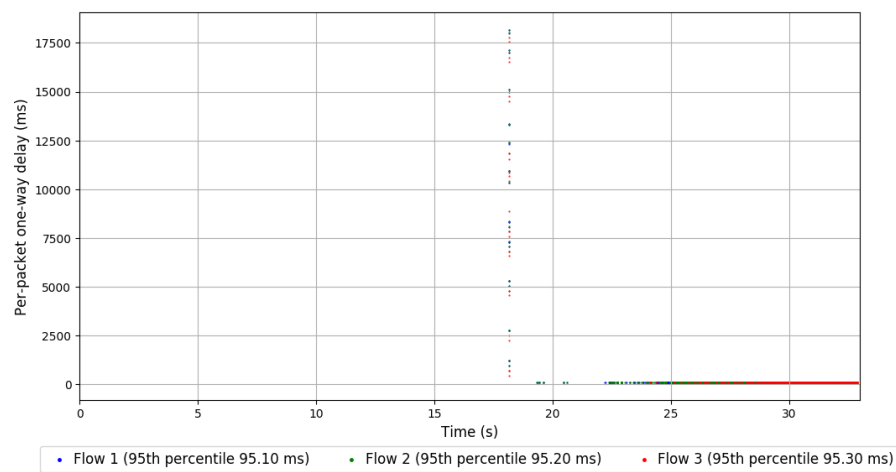
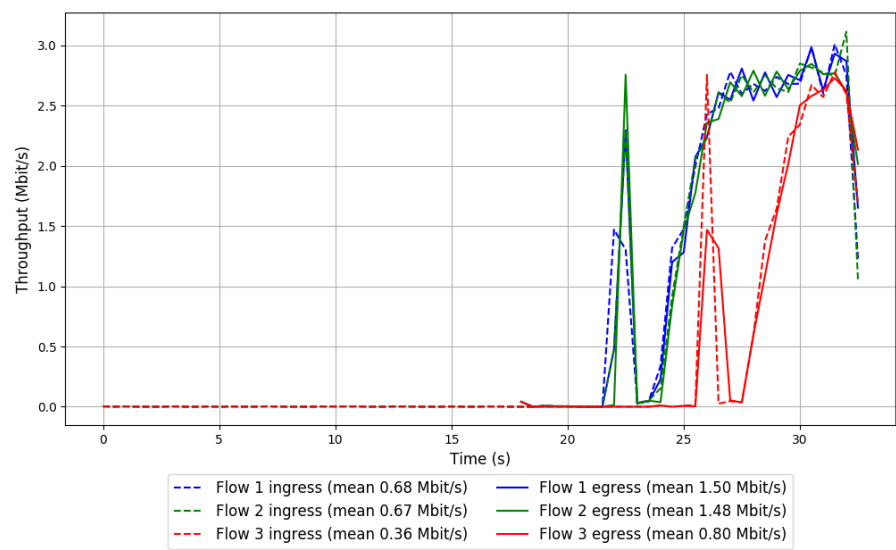
Start at: 2017-12-12 01:40:36

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

Local clock offset: -2.946 ms

Remote clock offset: 6.125 ms

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-12 02:00:46

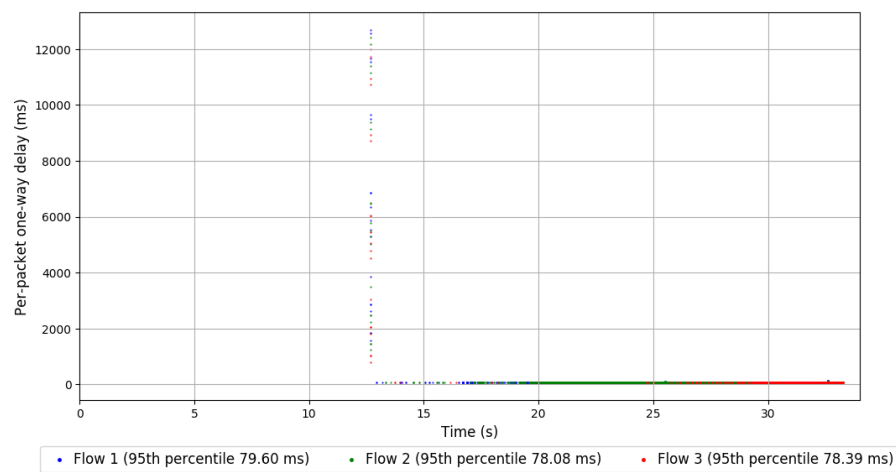
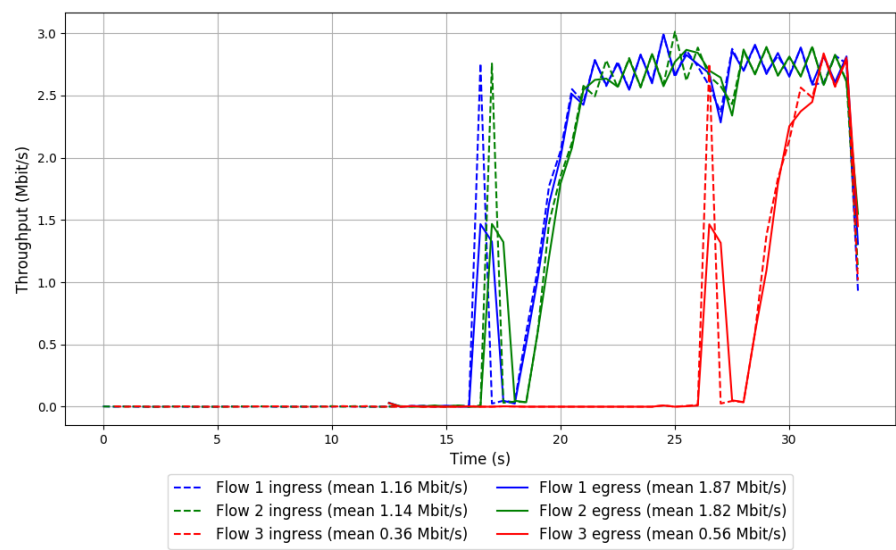
End at: 2017-12-12 02:01:16

Local clock offset: -3.307 ms

Remote clock offset: -10.119 ms



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

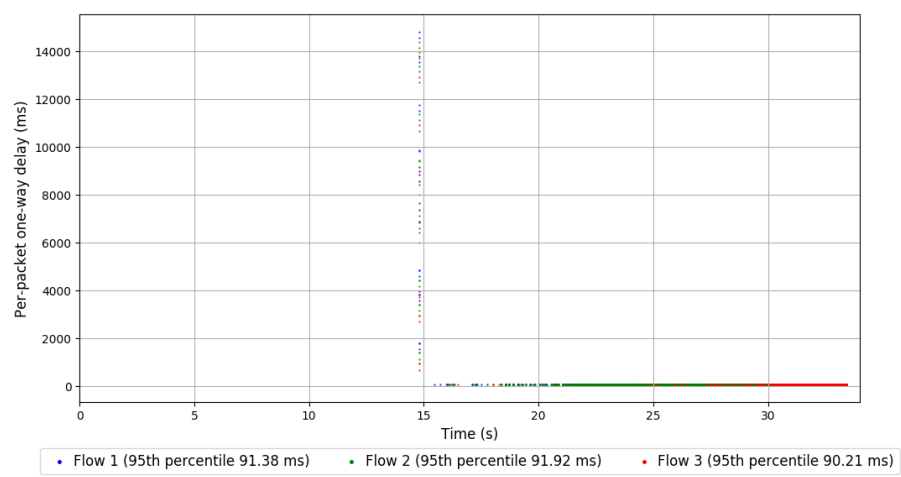
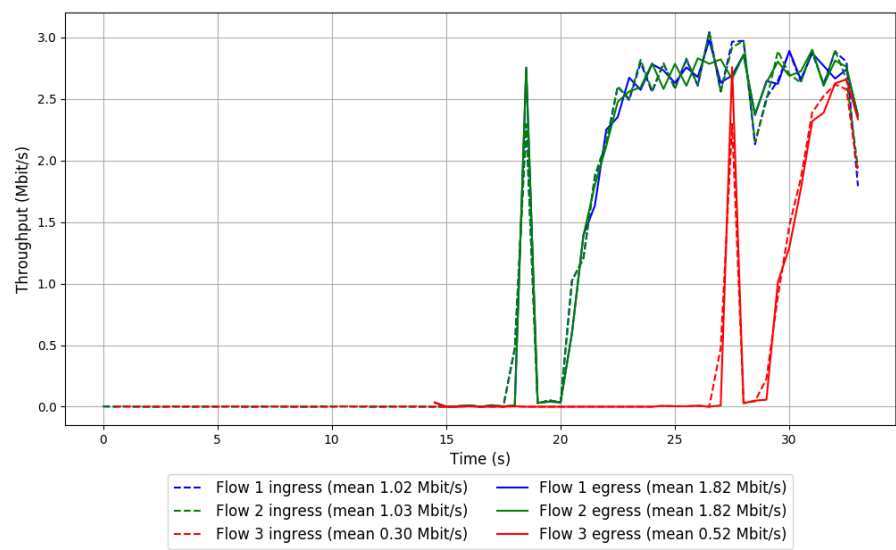
Start at: 2017-12-12 02:20:52

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

Local clock offset: -2.906 ms

Remote clock offset: 1.103 ms

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 23:24:53

End at: 2017-12-11 23:25:23

Local clock offset: -1.159 ms

Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2017-12-12 03:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 87.359 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 87.466 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 87.134 ms

Loss rate: 0.00%

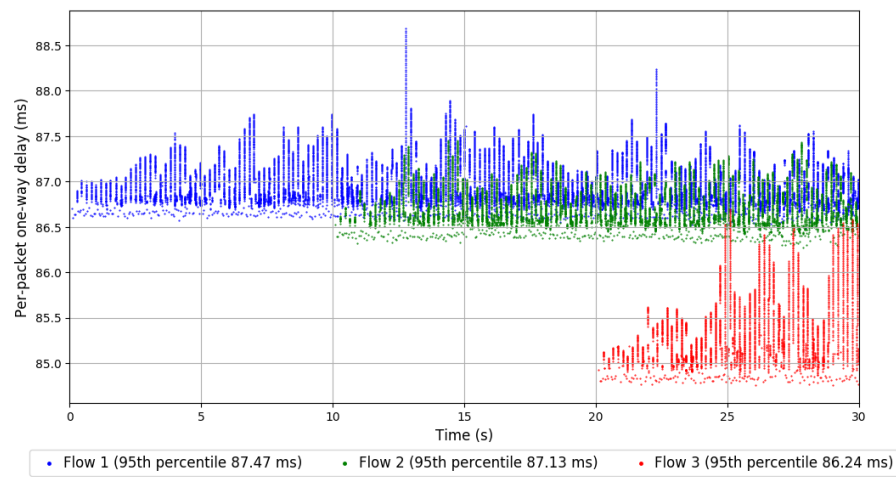
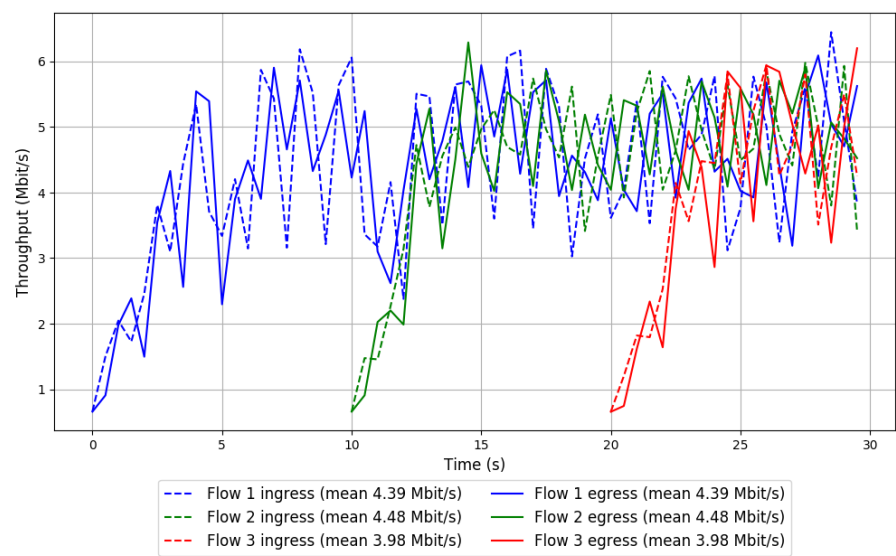
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 86.240 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

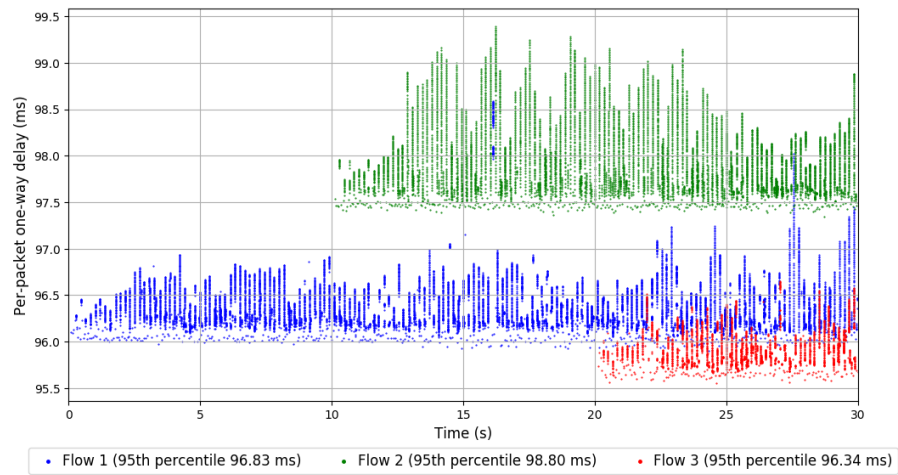
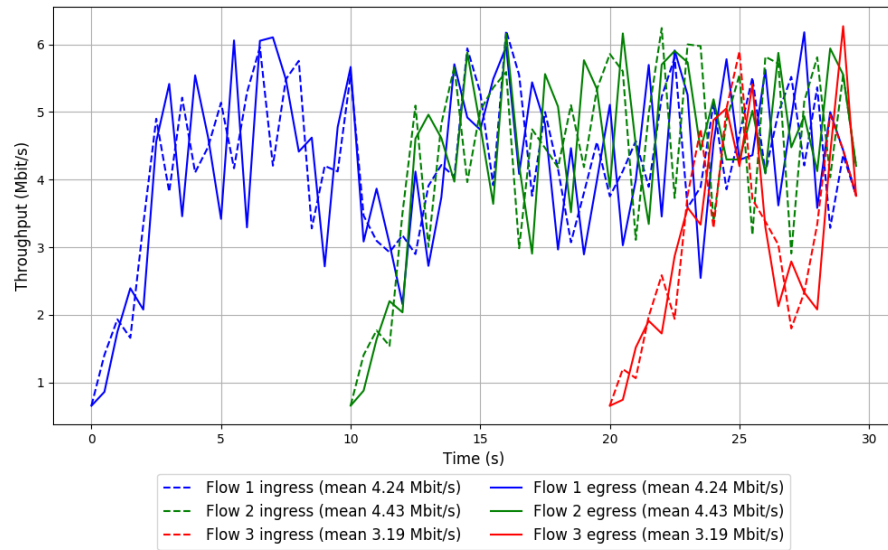


Run 2: Statistics of Sprout

Start at: 2017-12-11 23:44:57  
End at: 2017-12-11 23:45:27  
Local clock offset: -2.176 ms  
Remote clock offset: 12.16 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.24 Mbit/s  
95th percentile per-packet one-way delay: 98.494 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.24 Mbit/s  
95th percentile per-packet one-way delay: 96.825 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.43 Mbit/s  
95th percentile per-packet one-way delay: 98.798 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.19 Mbit/s  
95th percentile per-packet one-way delay: 96.341 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



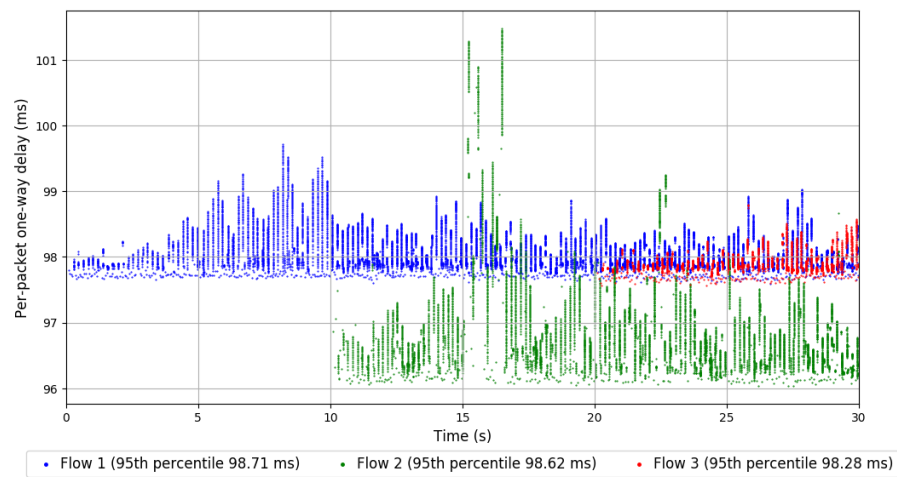
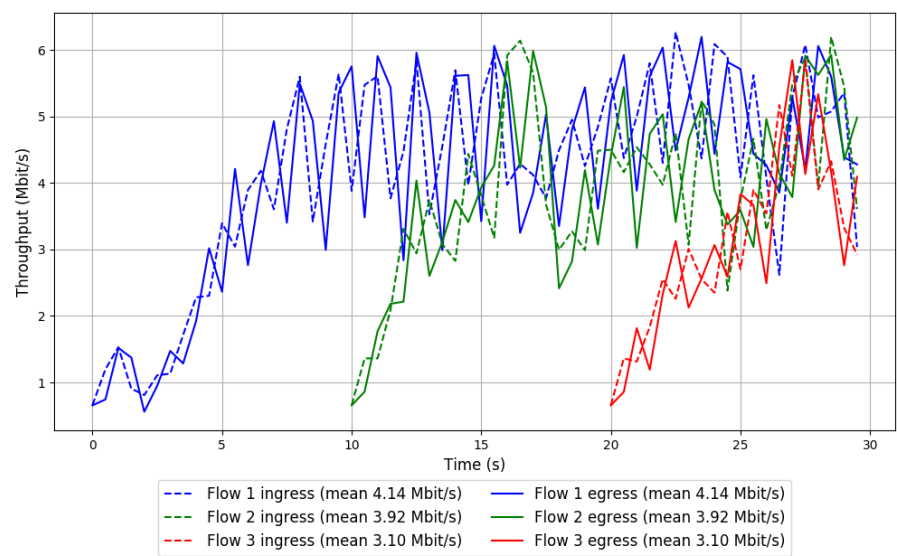
### Run 3: Statistics of Sprout

Start at: 2017-12-12 00:05:05  
End at: 2017-12-12 00:05:35  
Local clock offset: -2.066 ms  
Remote clock offset: 12.249 ms

```
# Below is generated by plot.py at 2017-12-12 03:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 98.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 98.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 98.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 98.275 ms
Loss rate: 0.00%
```



Run 3: Report of Sprout — Data Link

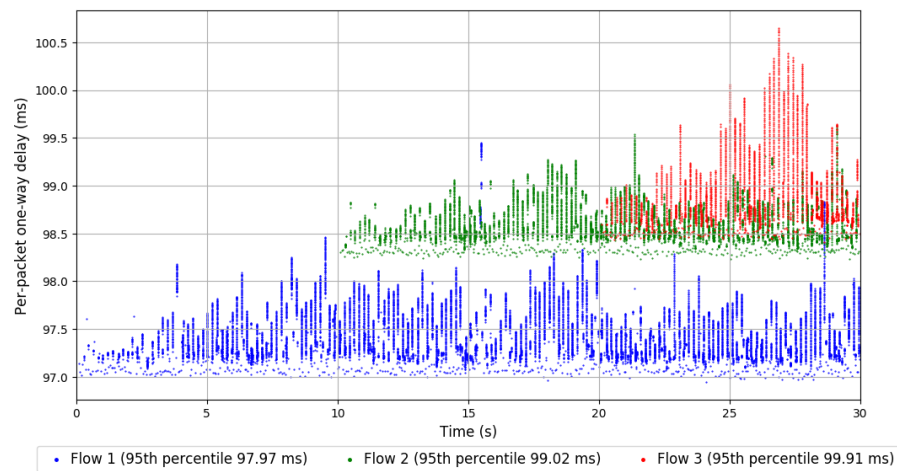
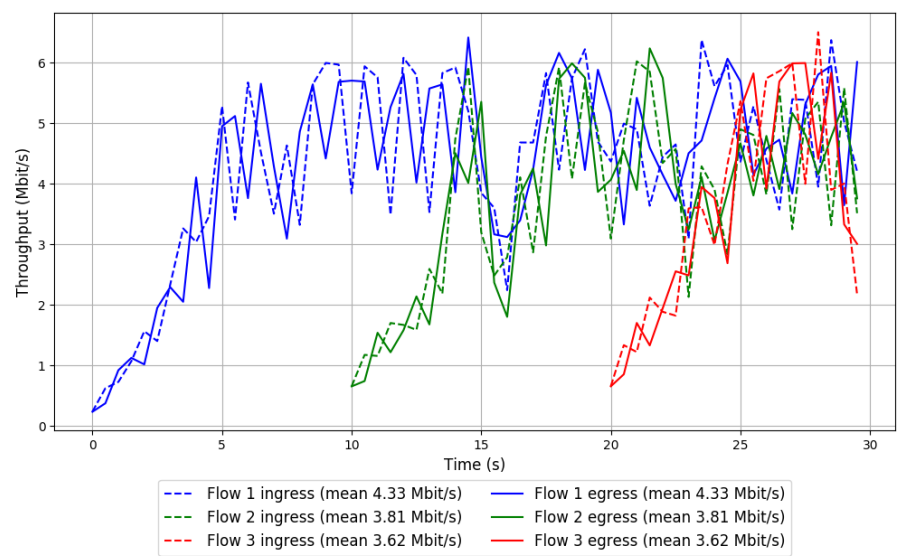


#### Run 4: Statistics of Sprout

Start at: 2017-12-12 00:25:10  
End at: 2017-12-12 00:25:40  
Local clock offset: -2.627 ms  
Remote clock offset: 12.076 ms

```
# Below is generated by plot.py at 2017-12-12 03:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 99.160 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 97.973 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 99.020 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 99.913 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

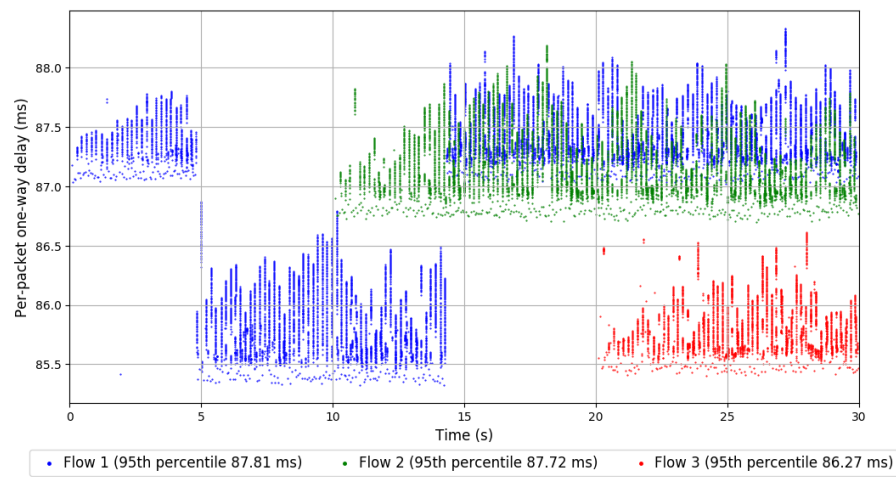
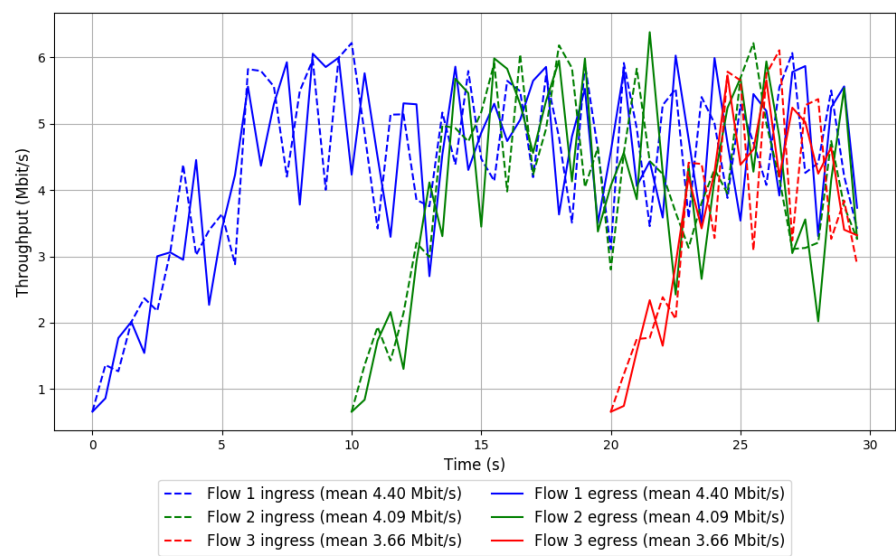


Run 5: Statistics of Sprout

Start at: 2017-12-12 00:45:13  
End at: 2017-12-12 00:45:43  
Local clock offset: -3.254 ms  
Remote clock offset: -0.168 ms

```
# Below is generated by plot.py at 2017-12-12 03:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 87.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 87.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 87.715 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 86.266 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2017-12-12 01:05:42

Local clock offset: -3.3 ms

Remote clock offset: 3.965 ms

# Below is generated by plot.py at 2017-12-12 03:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.16 Mbit/s

95th percentile per-packet one-way delay: 92.871 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 93.057 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 90.635 ms

Loss rate: 0.00%

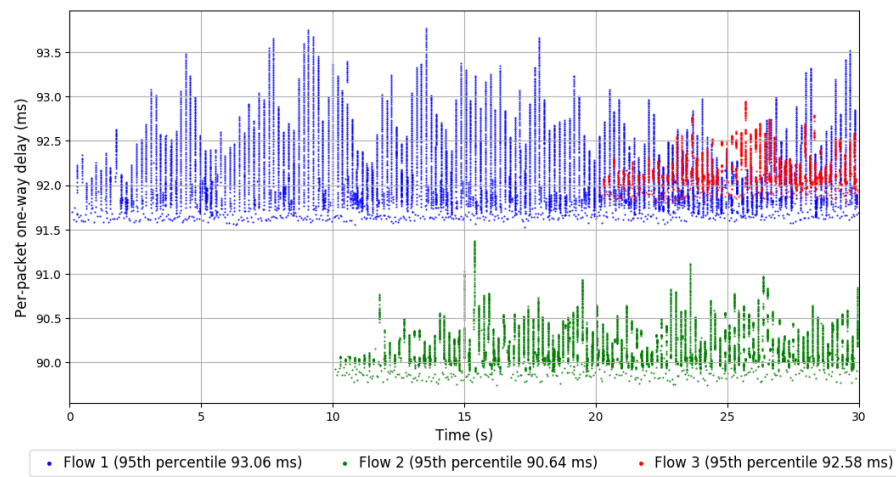
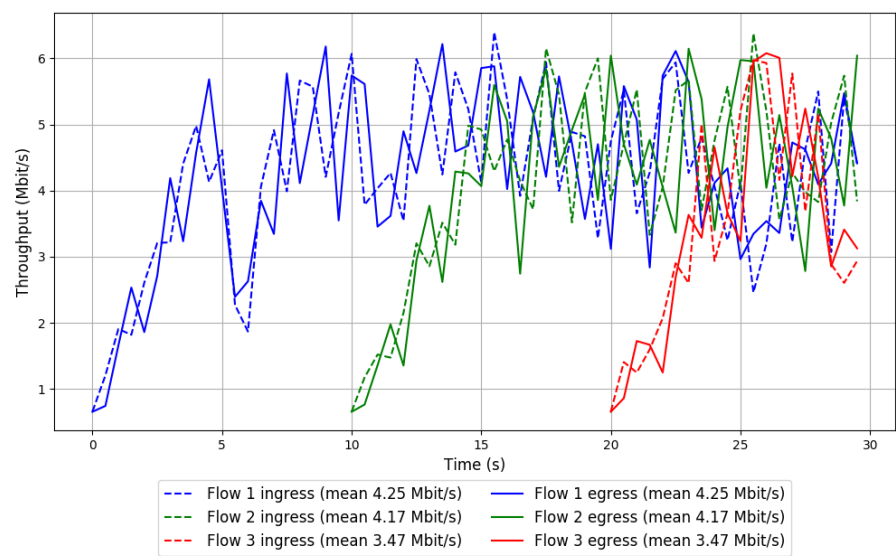
-- Flow 3:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 92.583 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



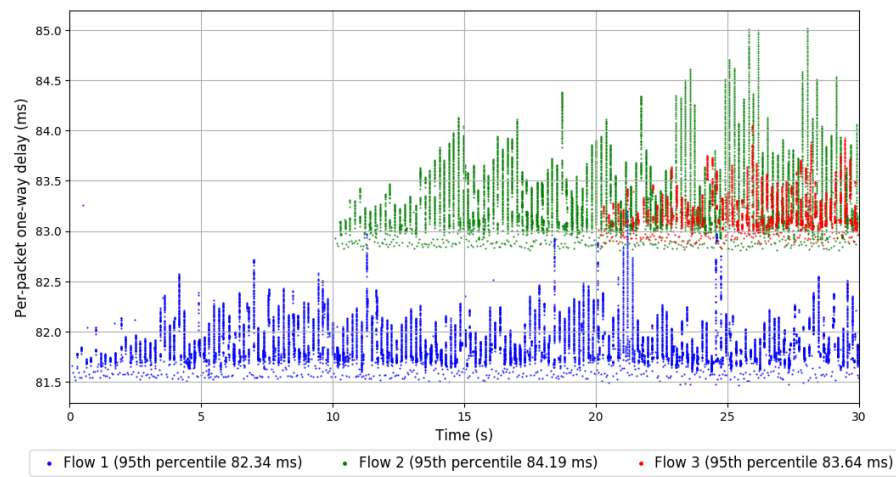
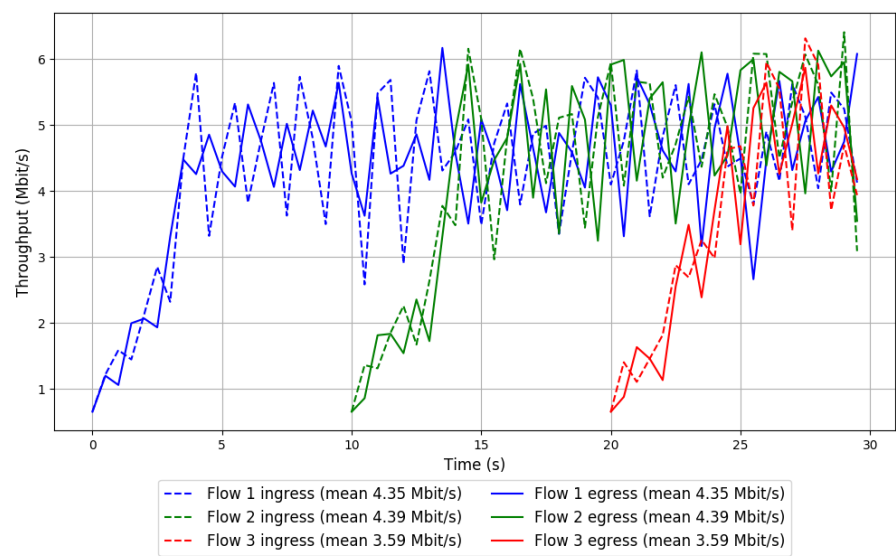
Run 7: Statistics of Sprout

Start at: 2017-12-12 01:25:22  
End at: 2017-12-12 01:25:52  
Local clock offset: -2.725 ms  
Remote clock offset: -5.071 ms

```
# Below is generated by plot.py at 2017-12-12 03:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 83.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 82.340 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 84.192 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 83.640 ms
Loss rate: 0.00%
```



Run 7: Report of Sprout — Data Link

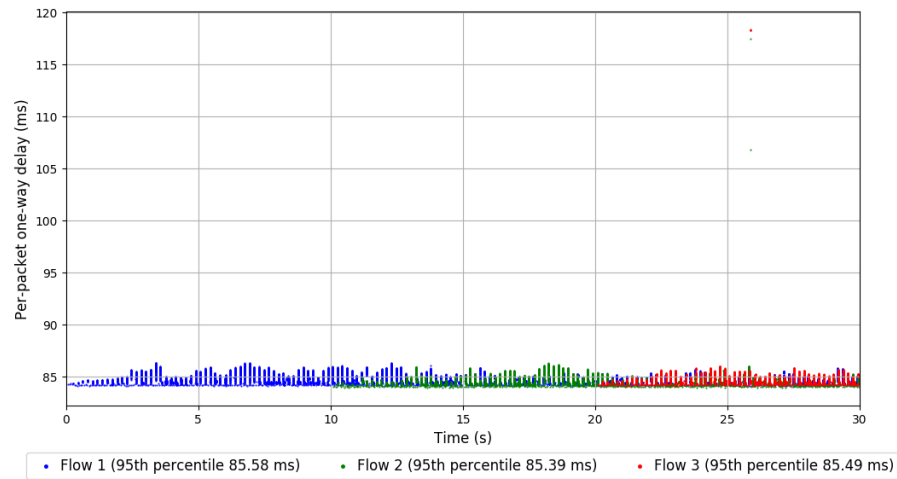
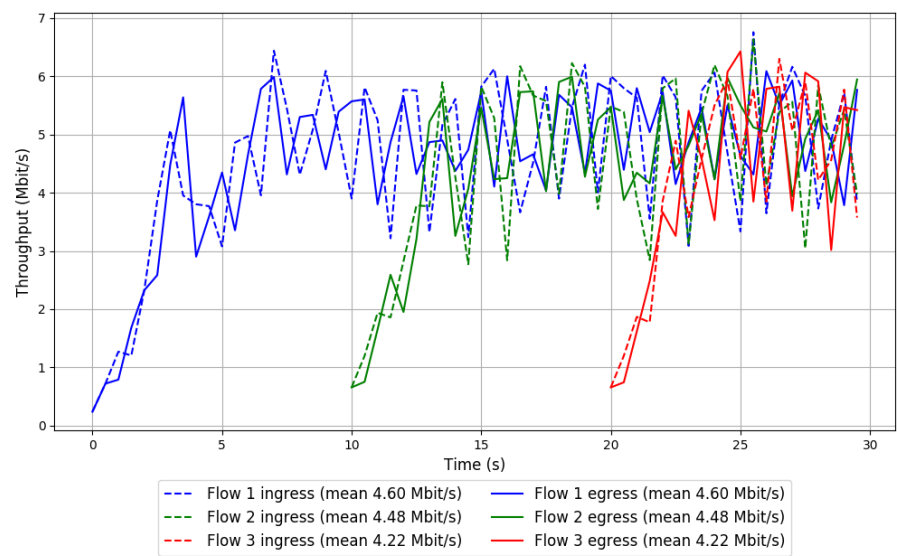


Run 8: Statistics of Sprout

Start at: 2017-12-12 01:45:41  
End at: 2017-12-12 01:46:11  
Local clock offset: -2.967 ms  
Remote clock offset: -2.53 ms

```
# Below is generated by plot.py at 2017-12-12 03:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 85.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 85.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 85.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 85.486 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

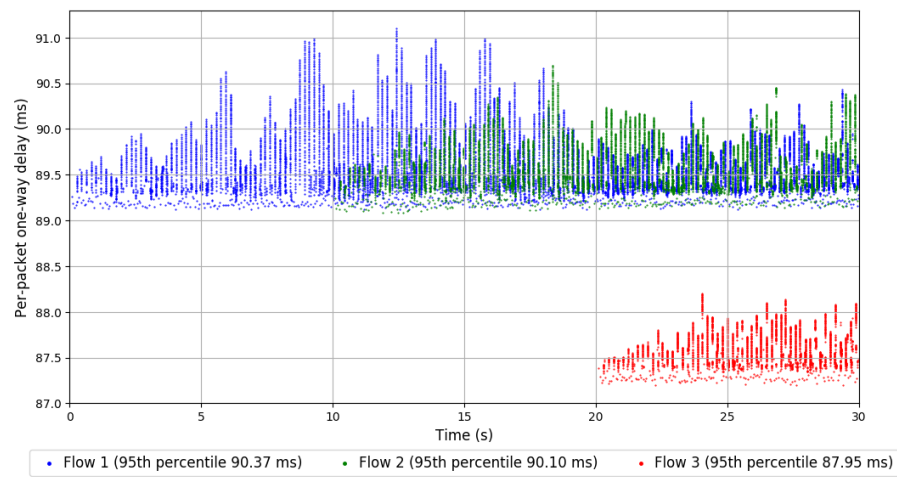
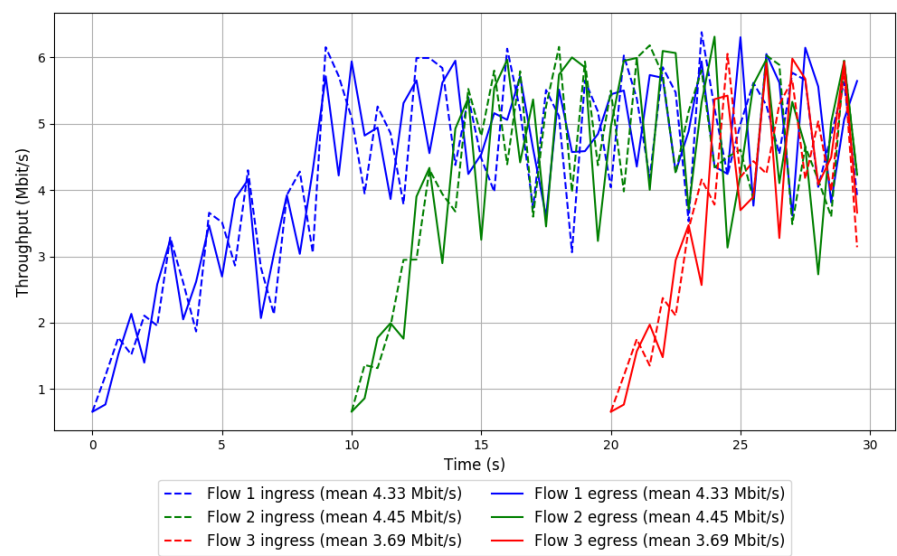


Run 9: Statistics of Sprout

Start at: 2017-12-12 02:05:51  
End at: 2017-12-12 02:06:21  
Local clock offset: -3.362 ms  
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2017-12-12 03:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 90.207 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: 90.369 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 90.099 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.69 Mbit/s  
95th percentile per-packet one-way delay: 87.946 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-12 02:25:58

End at: 2017-12-12 02:26:28

Local clock offset: -2.618 ms

Remote clock offset: 5.986 ms

# Below is generated by plot.py at 2017-12-12 03:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 97.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 97.190 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 97.290 ms

Loss rate: 0.00%

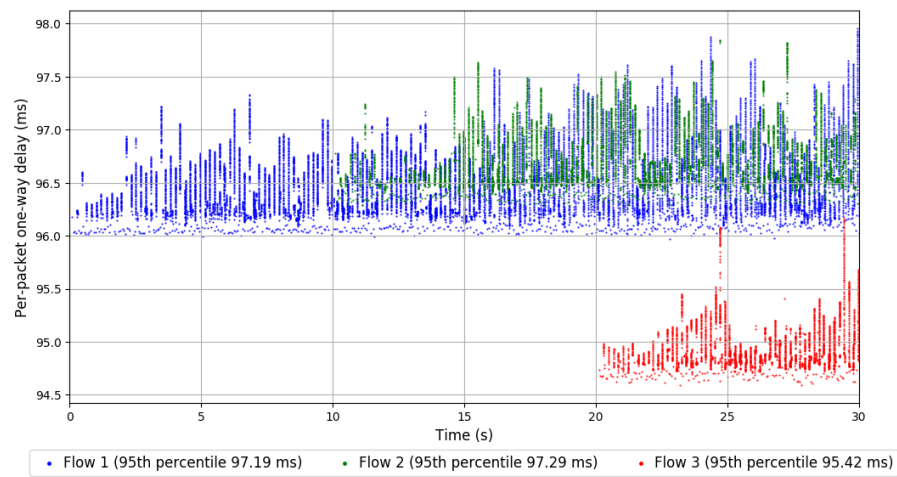
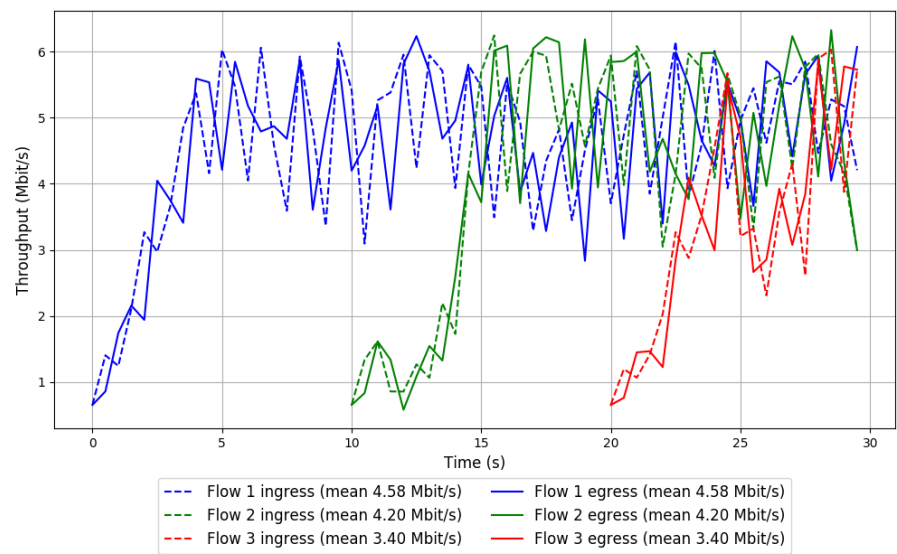
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 95.419 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



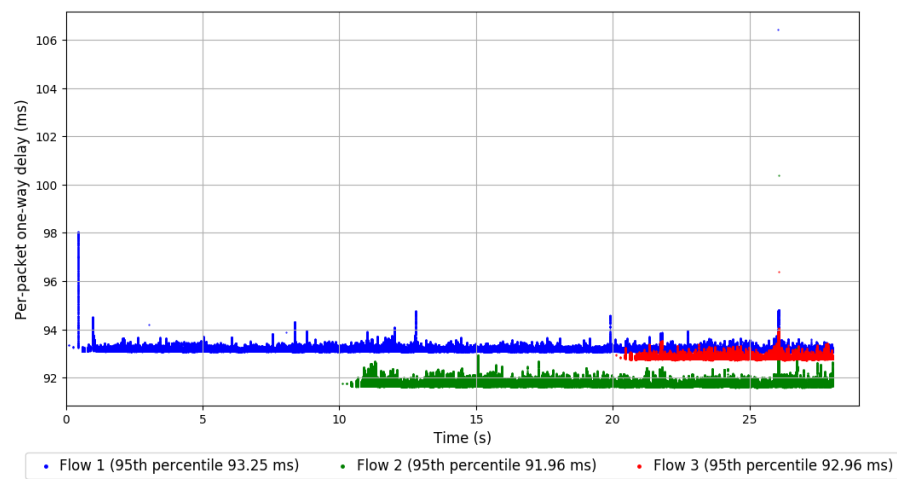
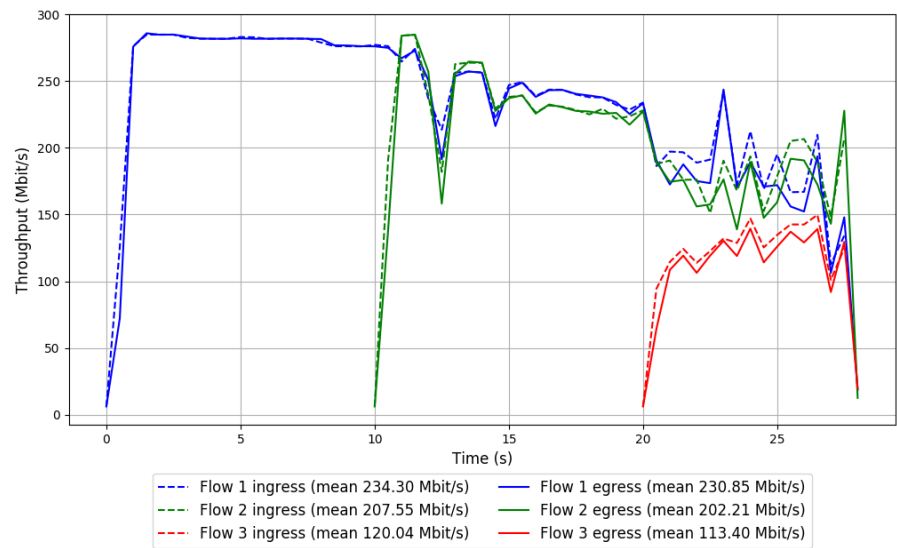
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 23:26:07
End at: 2017-12-11 23:26:37
Local clock offset: -1.197 ms
Remote clock offset: 7.345 ms

# Below is generated by plot.py at 2017-12-12 04:02:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.86 Mbit/s
95th percentile per-packet one-way delay: 93.215 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 230.85 Mbit/s
95th percentile per-packet one-way delay: 93.250 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 202.21 Mbit/s
95th percentile per-packet one-way delay: 91.956 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 113.40 Mbit/s
95th percentile per-packet one-way delay: 92.959 ms
Loss rate: 5.53%
```



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

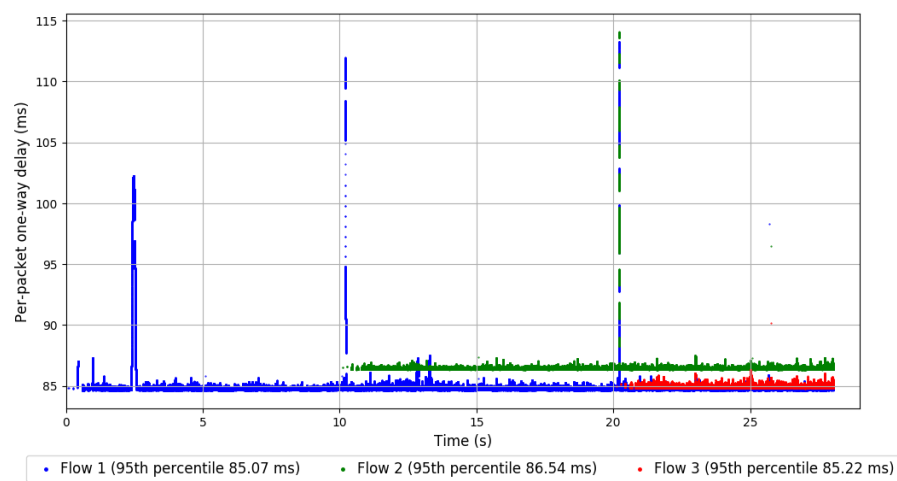
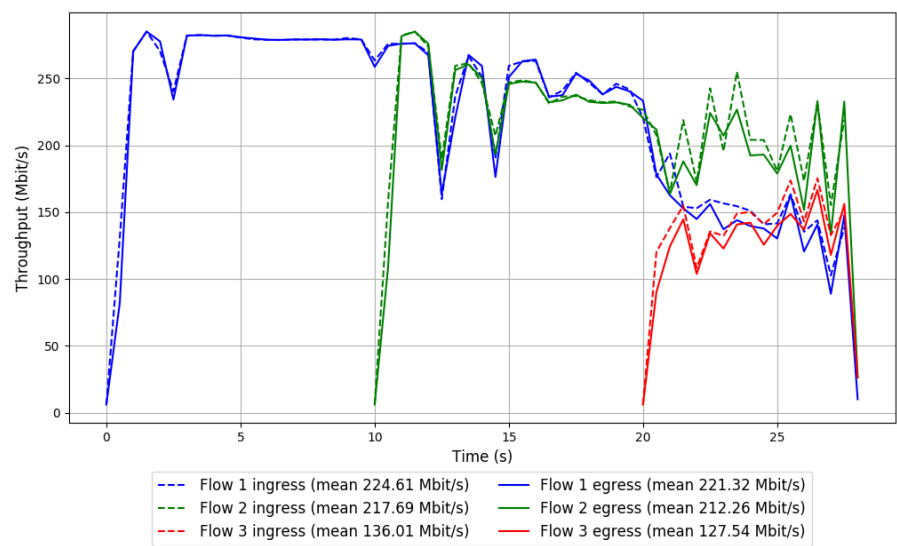


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 23:46:12
End at: 2017-12-11 23:46:42
Local clock offset: -2.218 ms
Remote clock offset: 1.014 ms

# Below is generated by plot.py at 2017-12-12 04:02:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.81 Mbit/s
95th percentile per-packet one-way delay: 86.472 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 221.32 Mbit/s
95th percentile per-packet one-way delay: 85.066 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 212.26 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 127.54 Mbit/s
95th percentile per-packet one-way delay: 85.220 ms
Loss rate: 6.23%
```

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

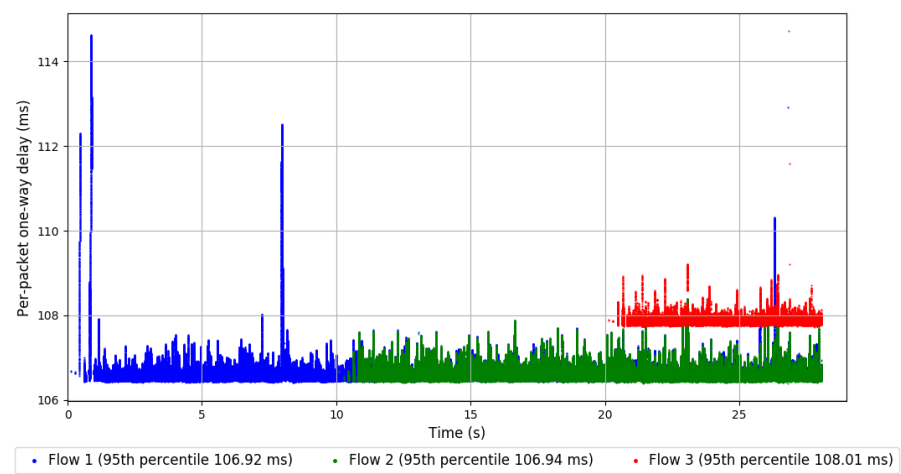
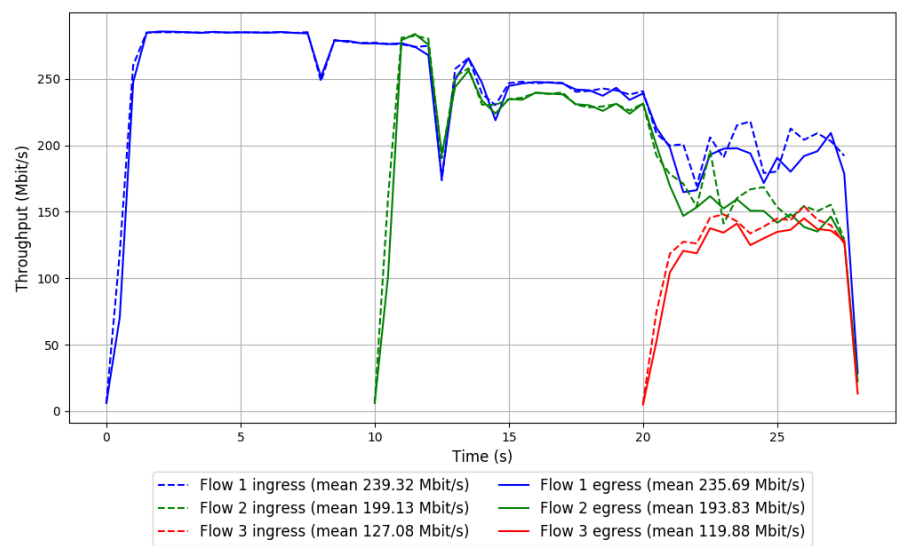


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-12 00:06:20  
End at: 2017-12-12 00:06:50  
Local clock offset: -2.038 ms  
Remote clock offset: 22.352 ms

# Below is generated by plot.py at 2017-12-12 04:02:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 394.13 Mbit/s  
95th percentile per-packet one-way delay: 107.832 ms  
Loss rate: 2.25%  
-- Flow 1:  
Average throughput: 235.69 Mbit/s  
95th percentile per-packet one-way delay: 106.919 ms  
Loss rate: 1.52%  
-- Flow 2:  
Average throughput: 193.83 Mbit/s  
95th percentile per-packet one-way delay: 106.942 ms  
Loss rate: 2.66%  
-- Flow 3:  
Average throughput: 119.88 Mbit/s  
95th percentile per-packet one-way delay: 108.014 ms  
Loss rate: 5.69%

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

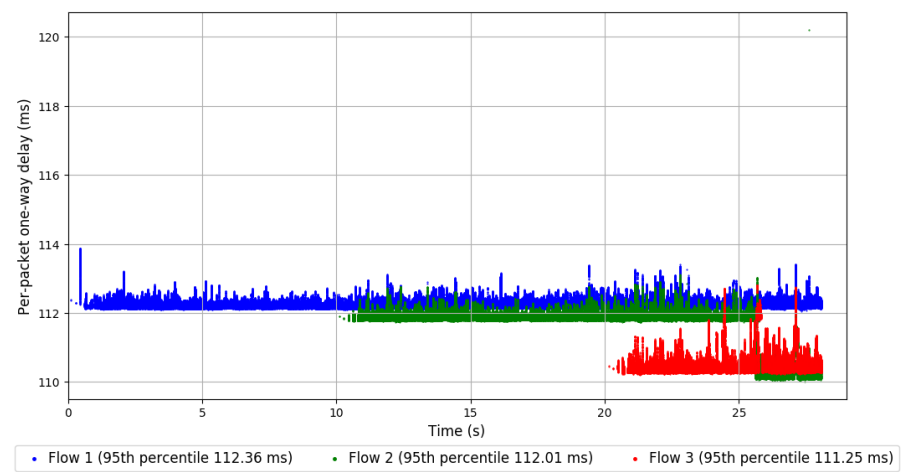
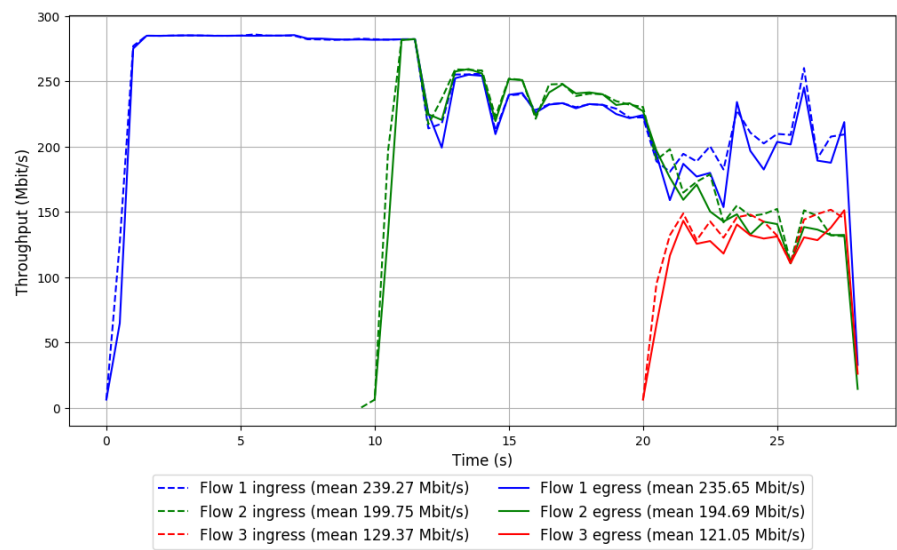


Run 4: Statistics of TaoVA-100x

Start at: 2017-12-12 00:26:24  
End at: 2017-12-12 00:26:54  
Local clock offset: -2.667 ms  
Remote clock offset: 25.546 ms

# Below is generated by plot.py at 2017-12-12 04:02:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 394.98 Mbit/s  
95th percentile per-packet one-way delay: 112.313 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 235.65 Mbit/s  
95th percentile per-packet one-way delay: 112.363 ms  
Loss rate: 1.52%  
-- Flow 2:  
Average throughput: 194.69 Mbit/s  
95th percentile per-packet one-way delay: 112.014 ms  
Loss rate: 2.55%  
-- Flow 3:  
Average throughput: 121.05 Mbit/s  
95th percentile per-packet one-way delay: 111.245 ms  
Loss rate: 6.43%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-12 00:46:28

End at: 2017-12-12 00:46:58

Local clock offset: -3.361 ms

Remote clock offset: 5.615 ms

# Below is generated by plot.py at 2017-12-12 04:02:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 389.33 Mbit/s

95th percentile per-packet one-way delay: 92.841 ms

Loss rate: 2.59%

-- Flow 1:

Average throughput: 225.54 Mbit/s

95th percentile per-packet one-way delay: 92.924 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 199.59 Mbit/s

95th percentile per-packet one-way delay: 91.806 ms

Loss rate: 2.79%

-- Flow 3:

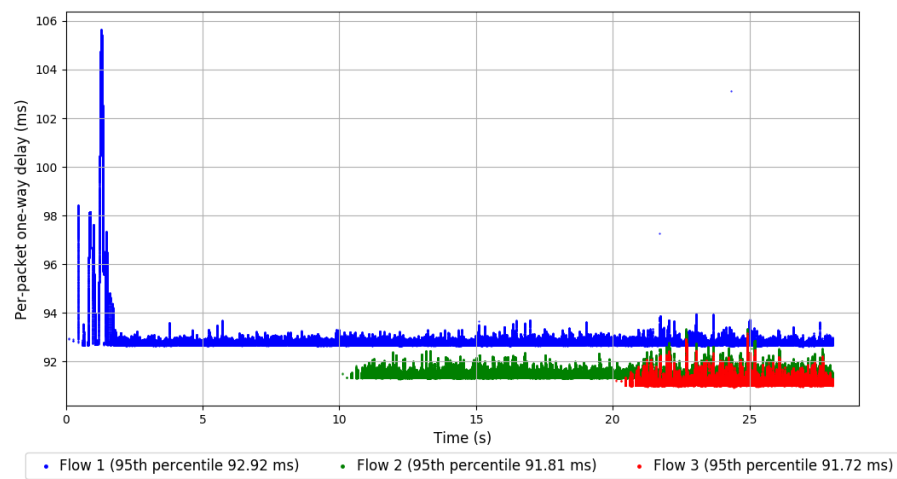
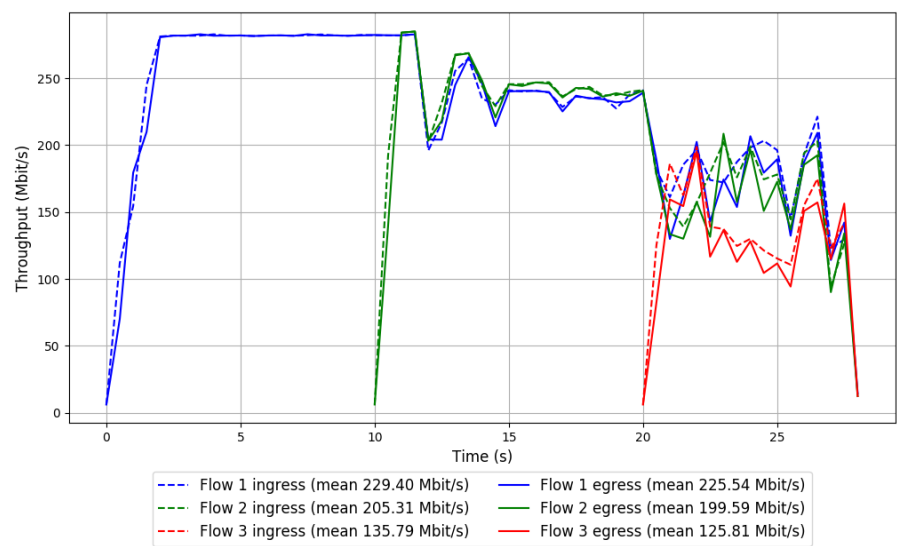
Average throughput: 125.81 Mbit/s

95th percentile per-packet one-way delay: 91.721 ms

Loss rate: 7.35%



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

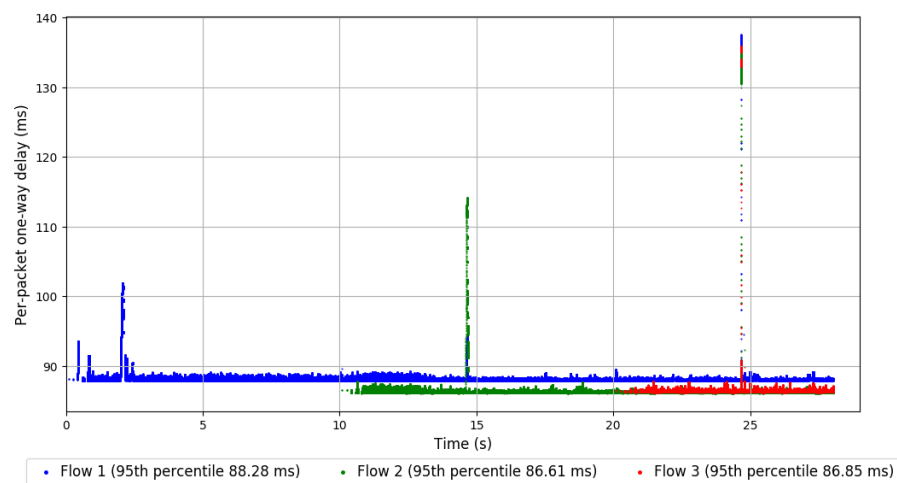
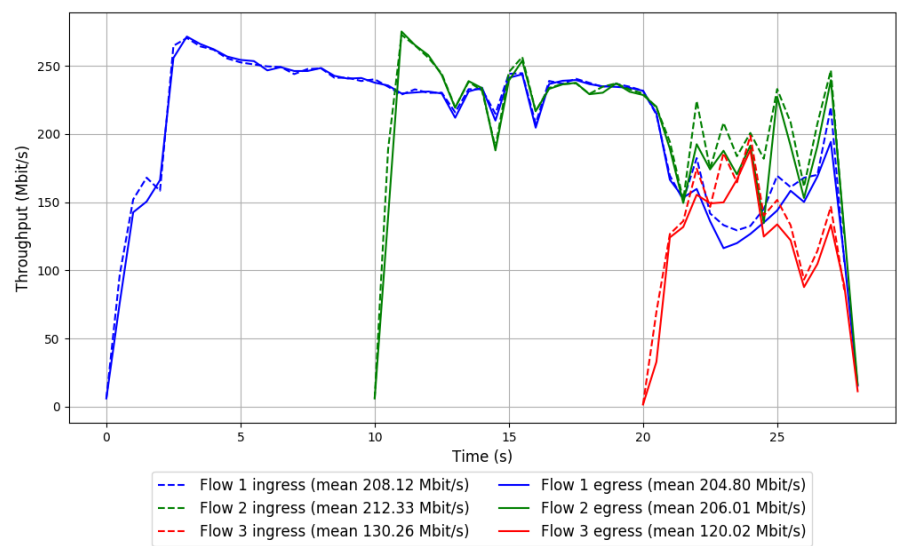


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-12 01:06:26  
End at: 2017-12-12 01:06:56  
Local clock offset: -3.31 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2017-12-12 04:02:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 371.18 Mbit/s  
95th percentile per-packet one-way delay: 88.146 ms  
Loss rate: 2.70%  
-- Flow 1:  
Average throughput: 204.80 Mbit/s  
95th percentile per-packet one-way delay: 88.275 ms  
Loss rate: 1.61%  
-- Flow 2:  
Average throughput: 206.01 Mbit/s  
95th percentile per-packet one-way delay: 86.611 ms  
Loss rate: 2.98%  
-- Flow 3:  
Average throughput: 120.02 Mbit/s  
95th percentile per-packet one-way delay: 86.850 ms  
Loss rate: 7.86%

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

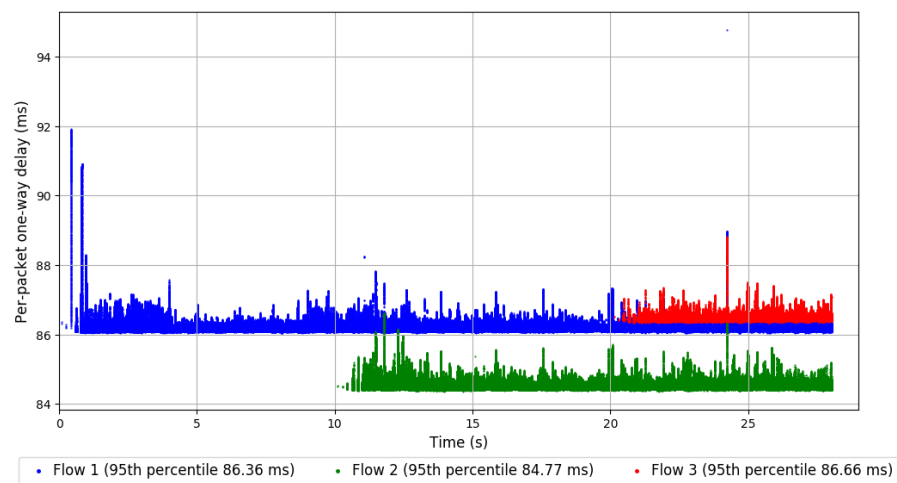
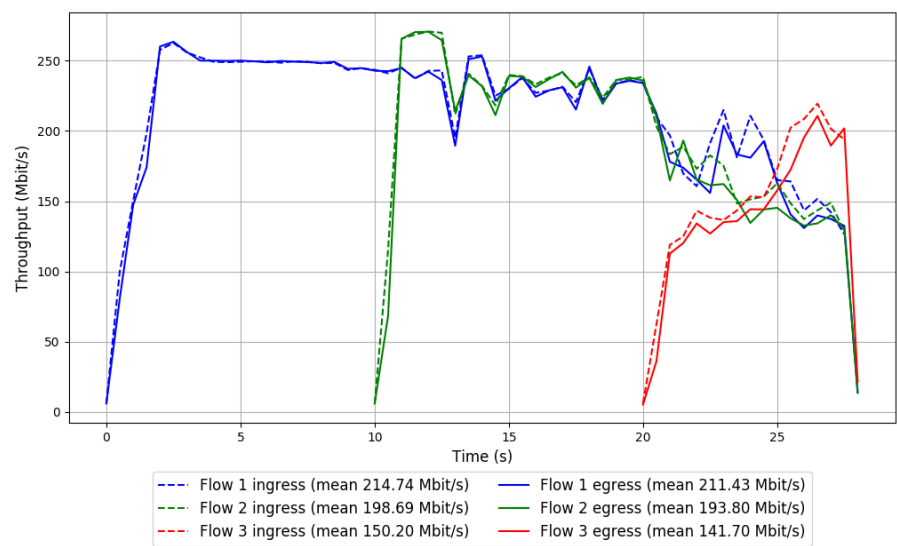


Run 7: Statistics of TaoVA-100x

Start at: 2017-12-12 01:26:41  
End at: 2017-12-12 01:27:11  
Local clock offset: -2.659 ms  
Remote clock offset: -2.132 ms

# Below is generated by plot.py at 2017-12-12 04:04:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 375.80 Mbit/s  
95th percentile per-packet one-way delay: 86.475 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 211.43 Mbit/s  
95th percentile per-packet one-way delay: 86.361 ms  
Loss rate: 1.55%  
-- Flow 2:  
Average throughput: 193.80 Mbit/s  
95th percentile per-packet one-way delay: 84.768 ms  
Loss rate: 2.47%  
-- Flow 3:  
Average throughput: 141.70 Mbit/s  
95th percentile per-packet one-way delay: 86.663 ms  
Loss rate: 5.69%

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

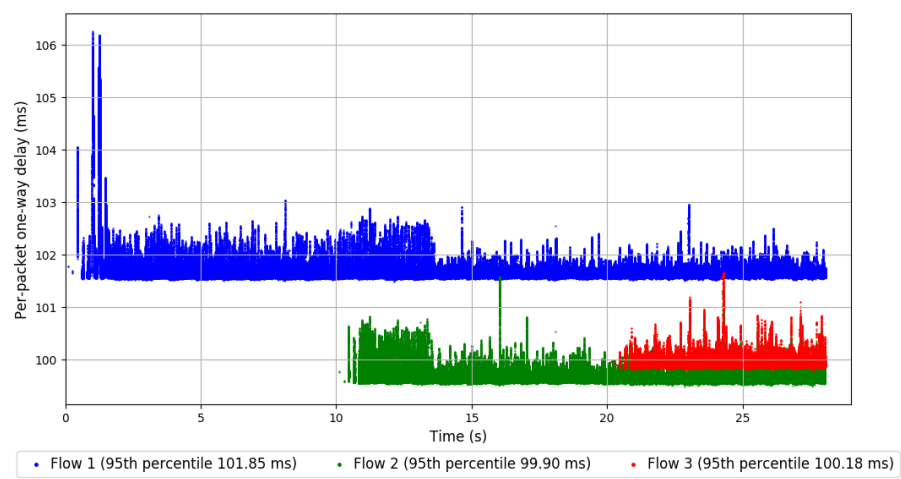
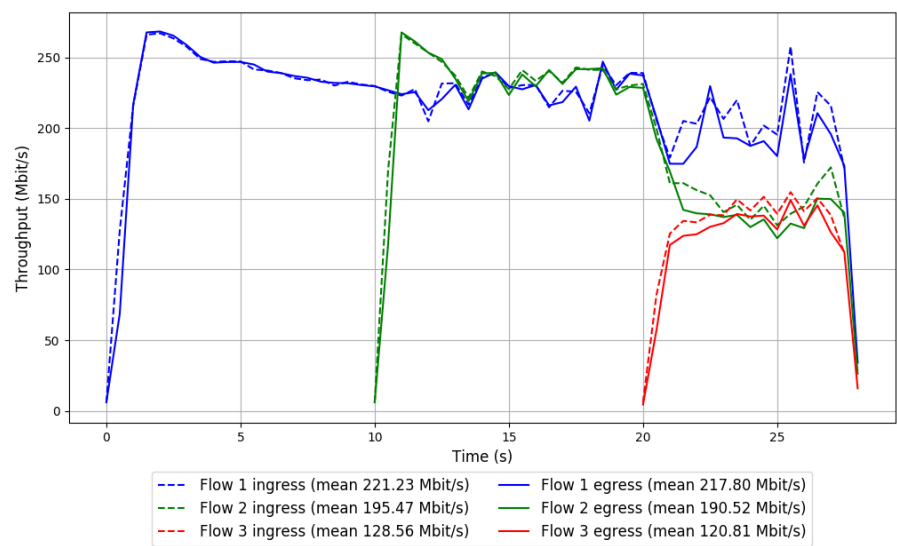


Run 8: Statistics of TaoVA-100x

Start at: 2017-12-12 01:46:56  
End at: 2017-12-12 01:47:26  
Local clock offset: -3.031 ms  
Remote clock offset: 12.807 ms

# Below is generated by plot.py at 2017-12-12 04:04:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 374.23 Mbit/s  
95th percentile per-packet one-way delay: 101.745 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 217.80 Mbit/s  
95th percentile per-packet one-way delay: 101.846 ms  
Loss rate: 1.56%  
-- Flow 2:  
Average throughput: 190.52 Mbit/s  
95th percentile per-packet one-way delay: 99.904 ms  
Loss rate: 2.53%  
-- Flow 3:  
Average throughput: 120.81 Mbit/s  
95th percentile per-packet one-way delay: 100.178 ms  
Loss rate: 6.03%

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



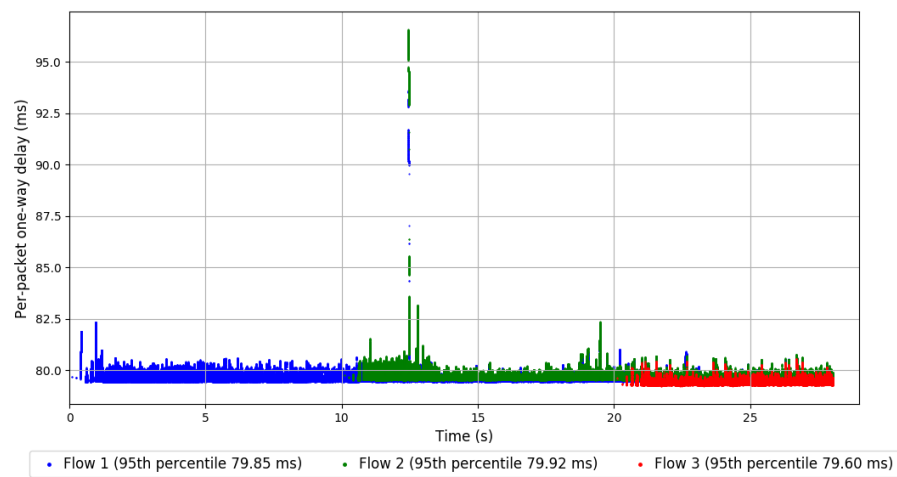
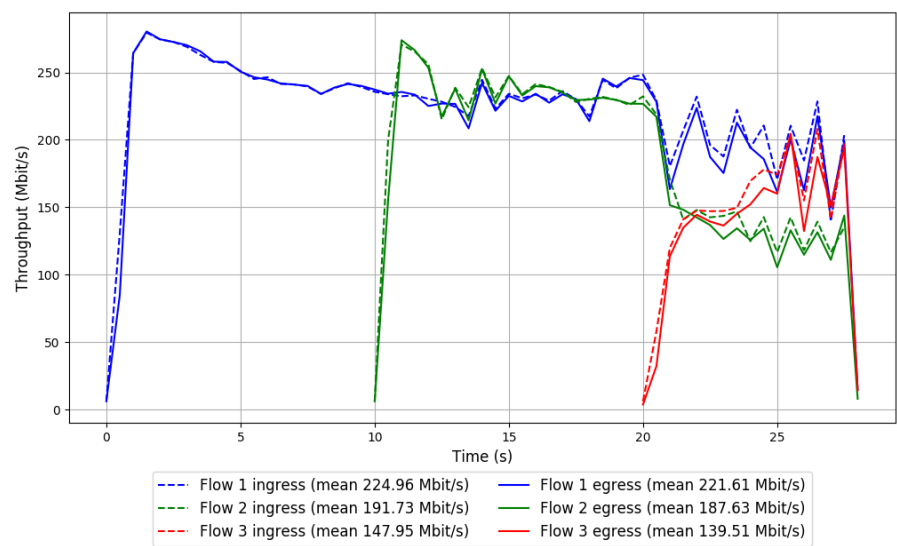
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-12 02:07:06  
End at: 2017-12-12 02:07:36  
Local clock offset: -3.335 ms  
Remote clock offset: -8.682 ms

# Below is generated by plot.py at 2017-12-12 04:12:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 381.56 Mbit/s  
95th percentile per-packet one-way delay: 79.863 ms  
Loss rate: 2.15%  
-- Flow 1:  
Average throughput: 221.61 Mbit/s  
95th percentile per-packet one-way delay: 79.854 ms  
Loss rate: 1.49%  
-- Flow 2:  
Average throughput: 187.63 Mbit/s  
95th percentile per-packet one-way delay: 79.925 ms  
Loss rate: 2.14%  
-- Flow 3:  
Average throughput: 139.51 Mbit/s  
95th percentile per-packet one-way delay: 79.596 ms  
Loss rate: 5.71%



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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-12 02:27:13

End at: 2017-12-12 02:27:43

Local clock offset: -2.623 ms

Remote clock offset: 0.681 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 370.63 Mbit/s

95th percentile per-packet one-way delay: 91.312 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 203.31 Mbit/s

95th percentile per-packet one-way delay: 89.494 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 203.38 Mbit/s

95th percentile per-packet one-way delay: 91.402 ms

Loss rate: 2.66%

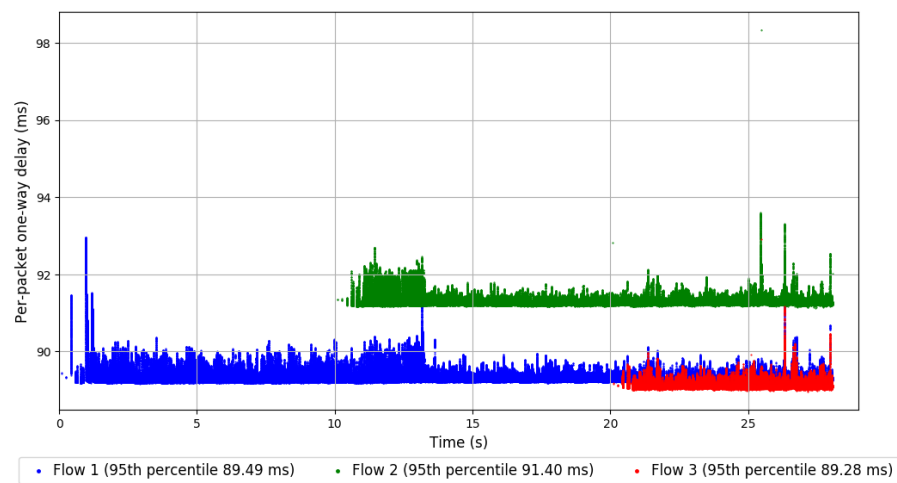
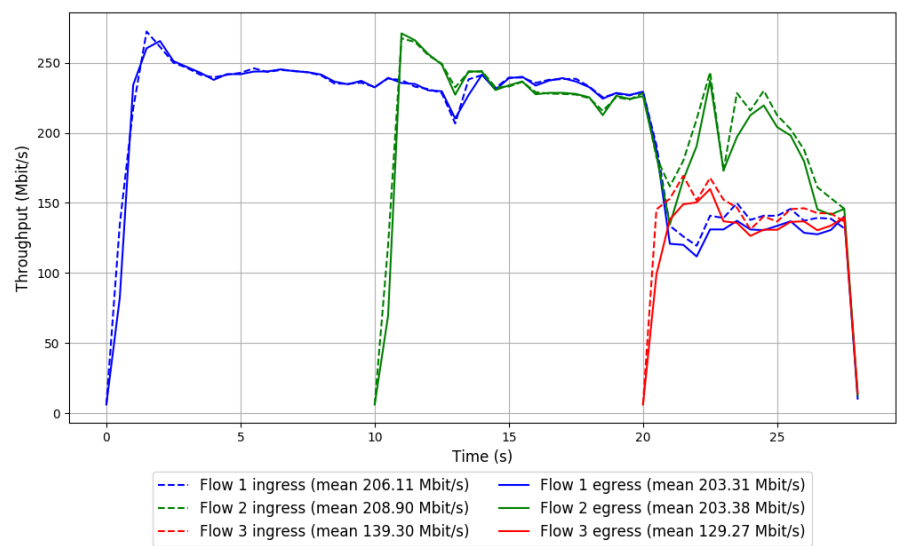
-- Flow 3:

Average throughput: 129.27 Mbit/s

95th percentile per-packet one-way delay: 89.277 ms

Loss rate: 7.20%

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



Run 1: Statistics of TCP Vegas

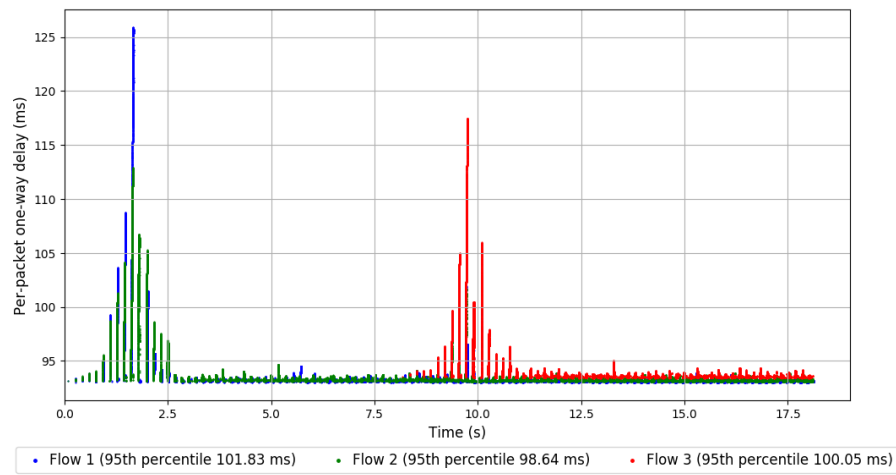
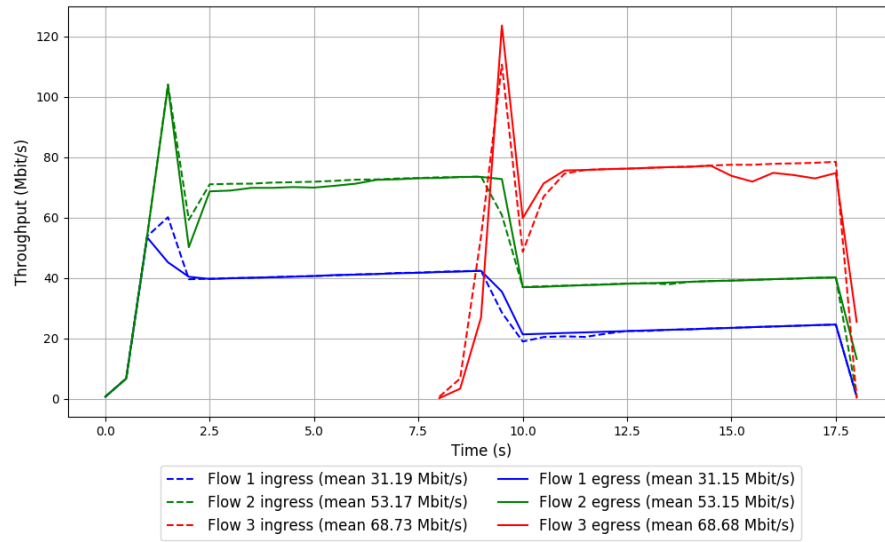
Start at: 2017-12-11 23:37:00

End at: 2017-12-11 23:37:30

Local clock offset: -1.886 ms

Remote clock offset: 9.193 ms

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

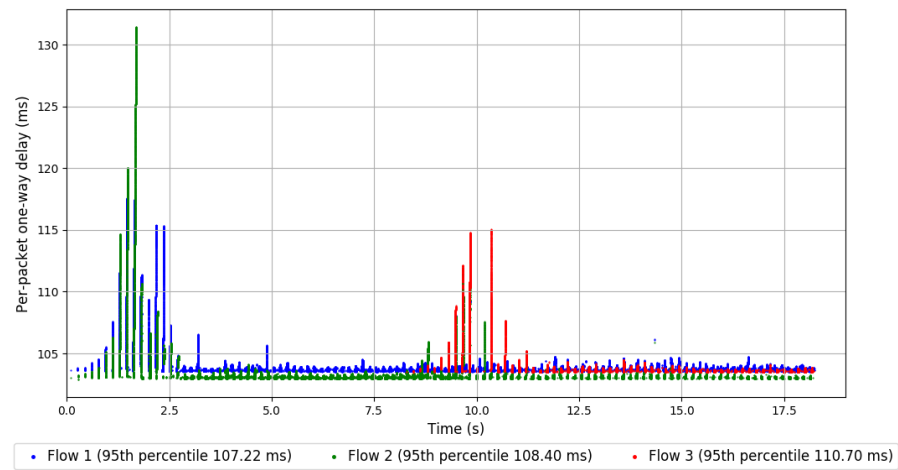
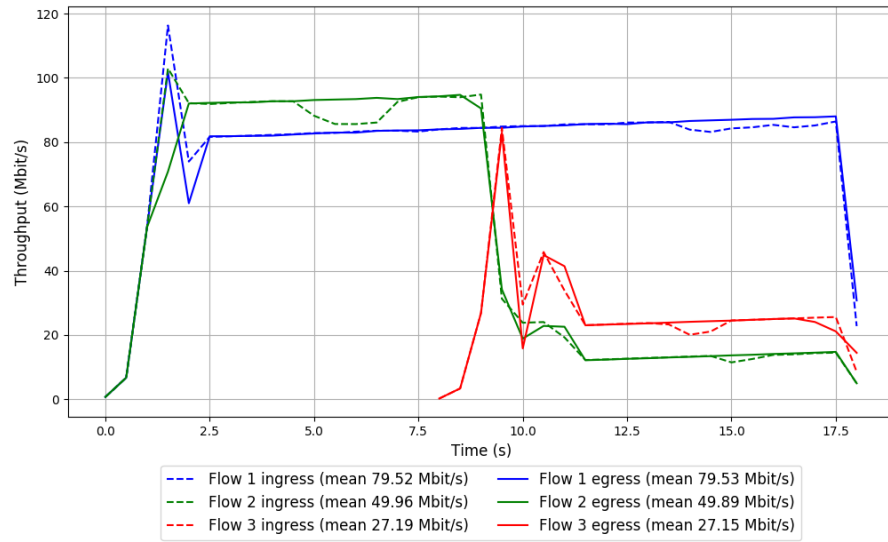
Start at: 2017-12-11 23:57:10

End at: 2017-12-11 23:57:40

Local clock offset: -2.033 ms

Remote clock offset: 18.019 ms

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



Run 3: Statistics of TCP Vegas

Start at: 2017-12-12 00:17:19

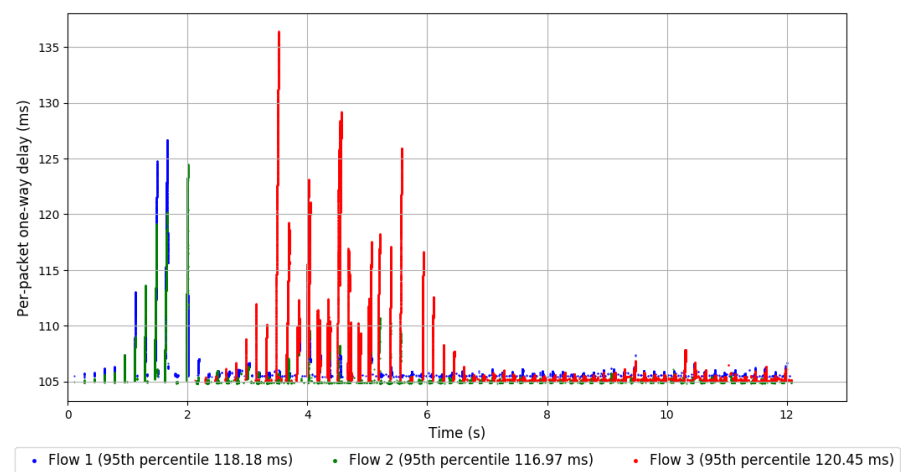
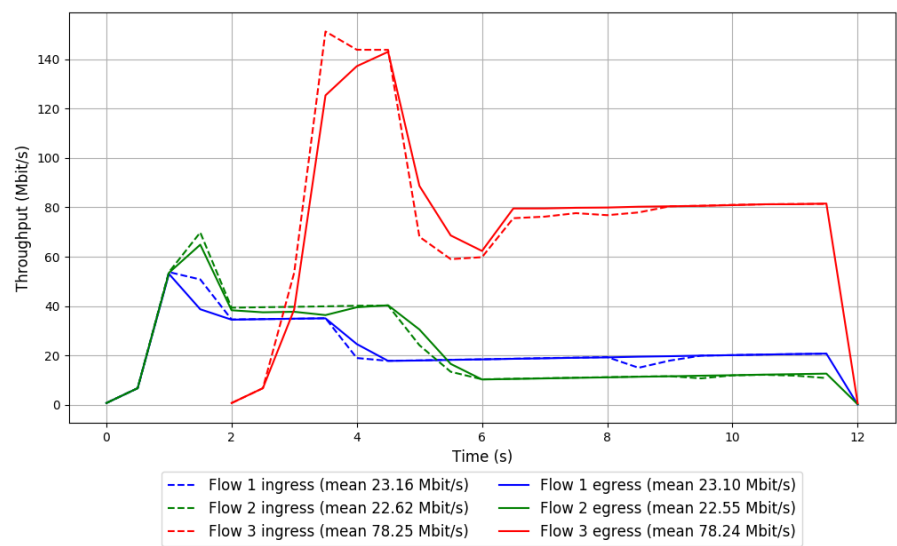
End at: 2017-12-12 00:17:49

Local clock offset: -2.447 ms

Remote clock offset: 20.894 ms



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

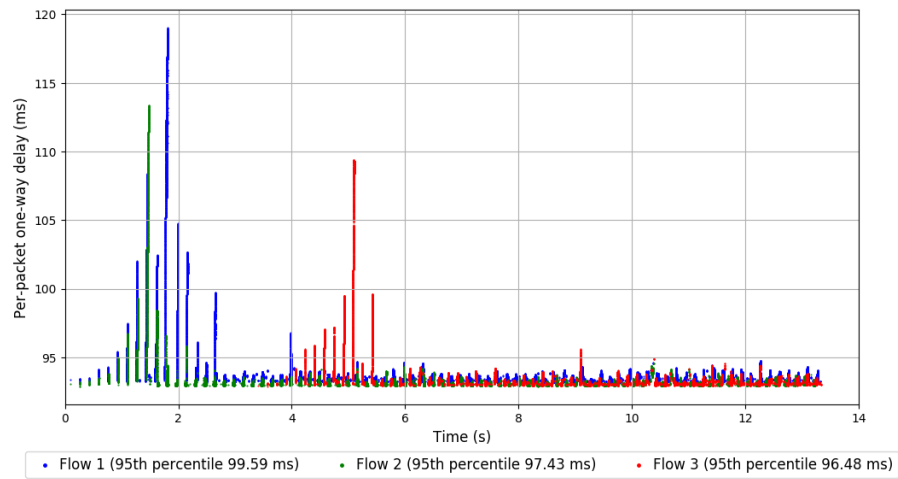
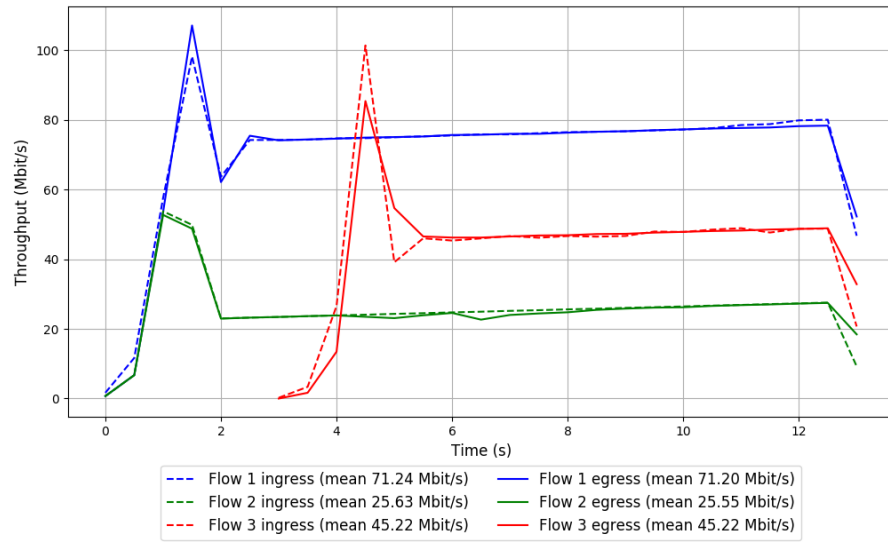
Start at: 2017-12-12 00:37:18

End at: 2017-12-12 00:37:48

Local clock offset: -2.917 ms

Remote clock offset: 8.084 ms

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

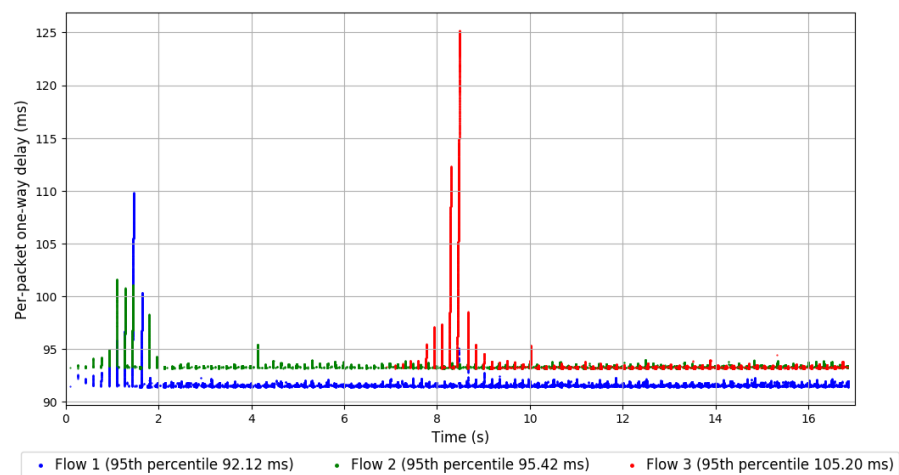
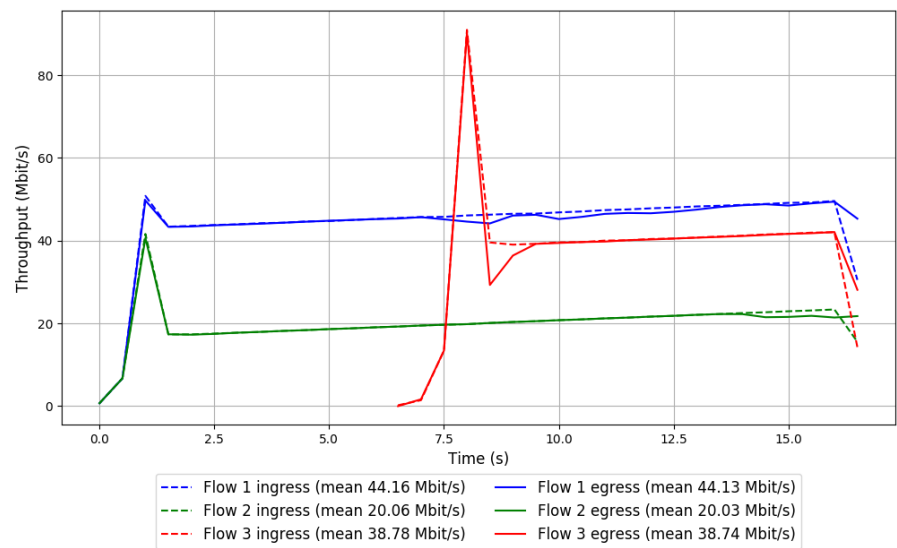
Start at: 2017-12-12 00:57:19

End at: 2017-12-12 00:57:50

Local clock offset: -3.606 ms

Remote clock offset: 5.731 ms

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

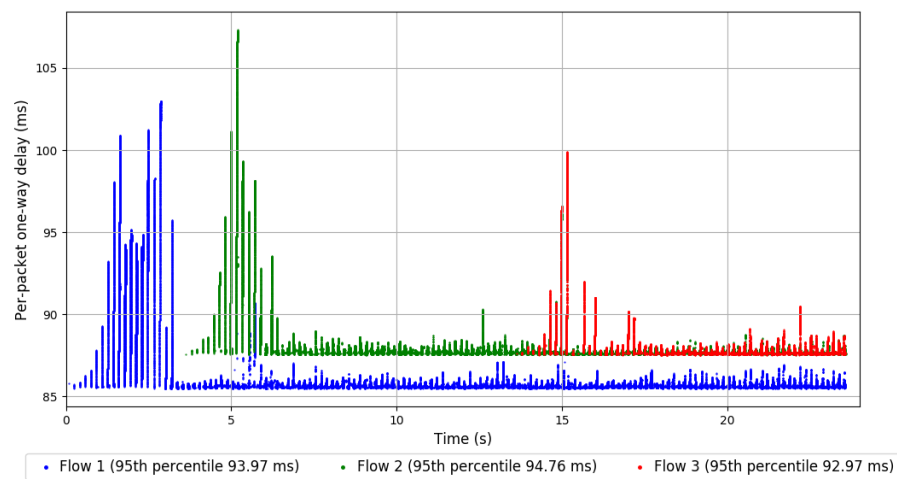
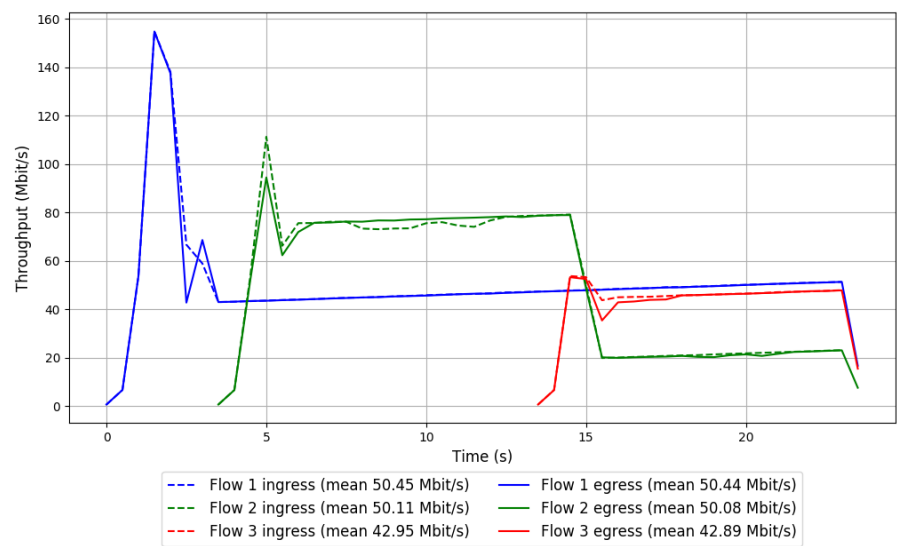
Start at: 2017-12-12 01:17:26

End at: 2017-12-12 01:17:56

Local clock offset: -2.965 ms

Remote clock offset: -0.74 ms

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-12 01:37:48

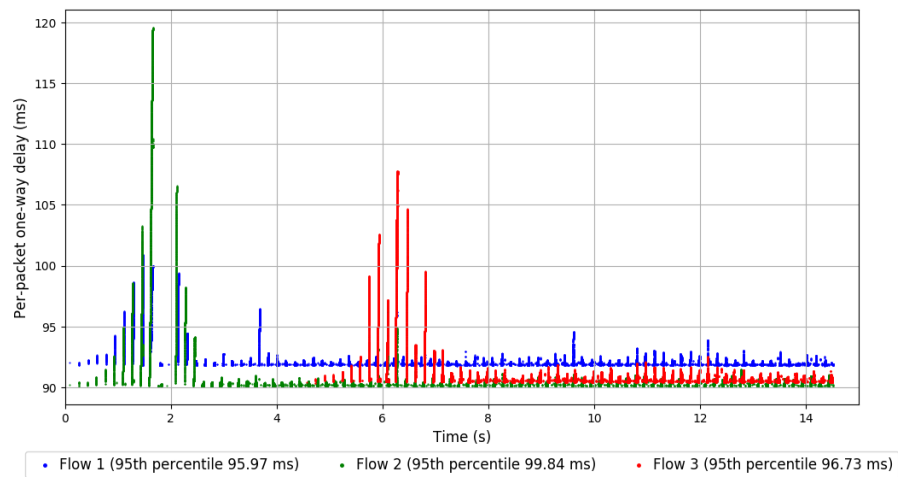
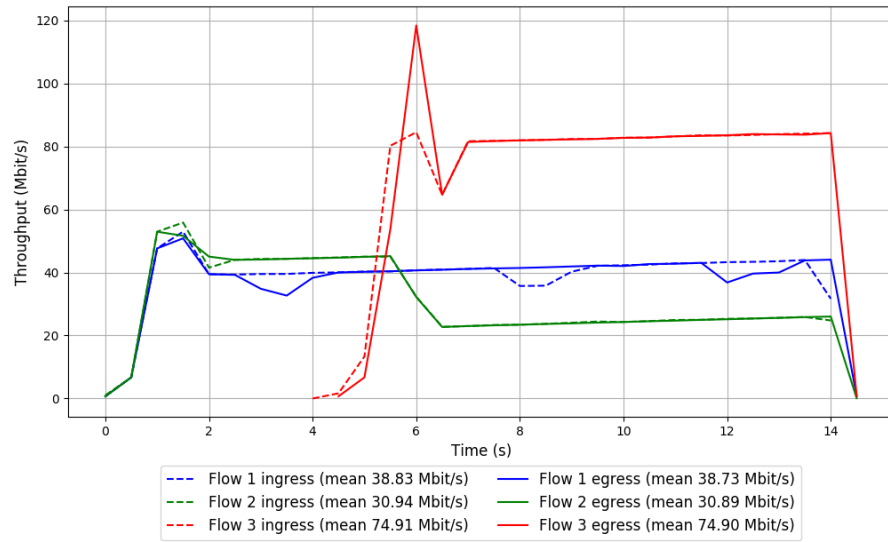
End at: 2017-12-12 01:38:18

Local clock offset: -2.808 ms

Remote clock offset: 3.546 ms



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



Run 8: Statistics of TCP Vegas

Start at: 2017-12-12 01:57:52

End at: 2017-12-12 01:58:22

Local clock offset: -3.337 ms

Remote clock offset: 7.912 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 107.83 Mbit/s

95th percentile per-packet one-way delay: 104.686 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 105.121 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 63.90 Mbit/s

95th percentile per-packet one-way delay: 104.972 ms

Loss rate: 0.01%

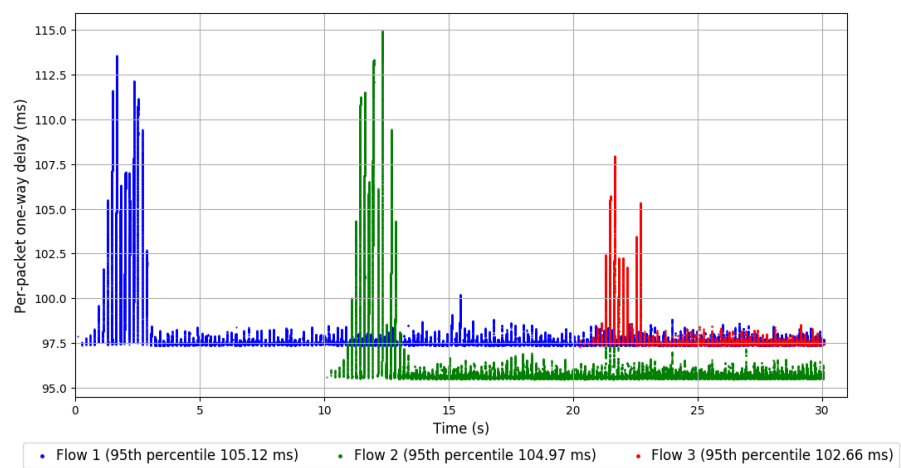
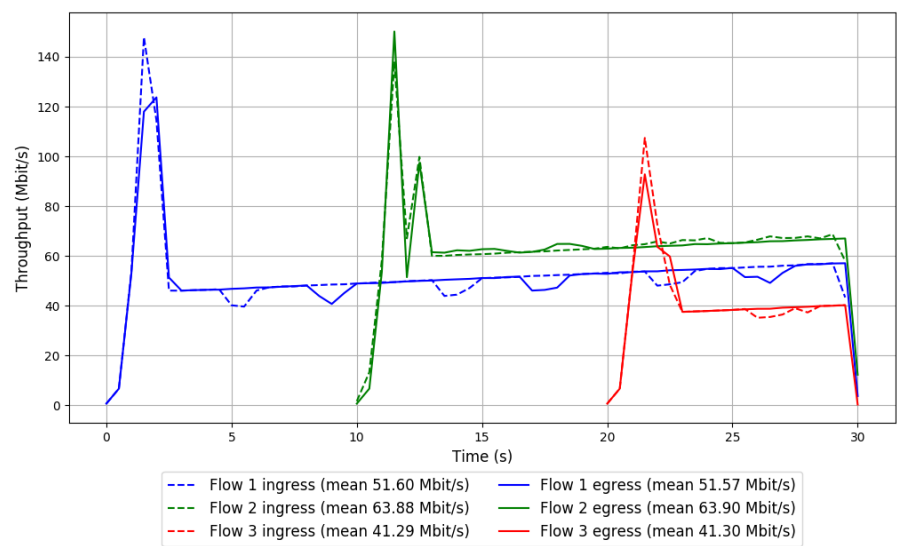
-- Flow 3:

Average throughput: 41.30 Mbit/s

95th percentile per-packet one-way delay: 102.660 ms

Loss rate: 0.05%

Run 8: Report of TCP Vegas — Data Link

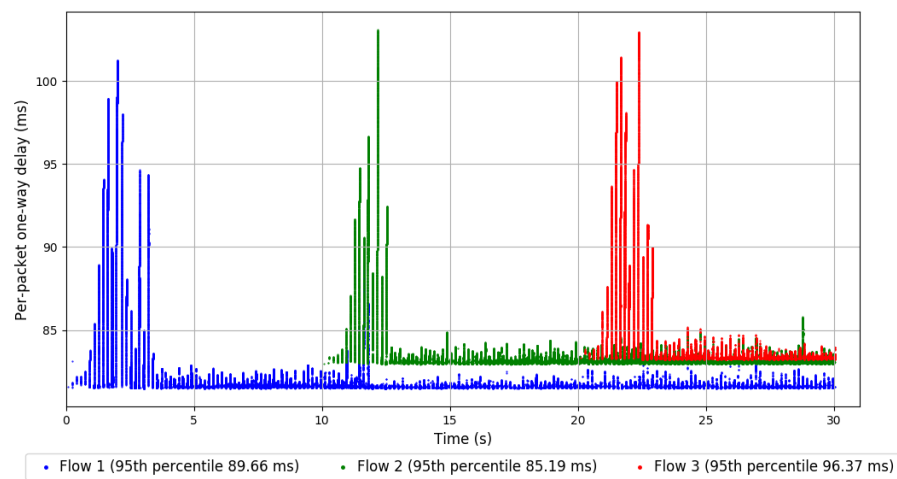
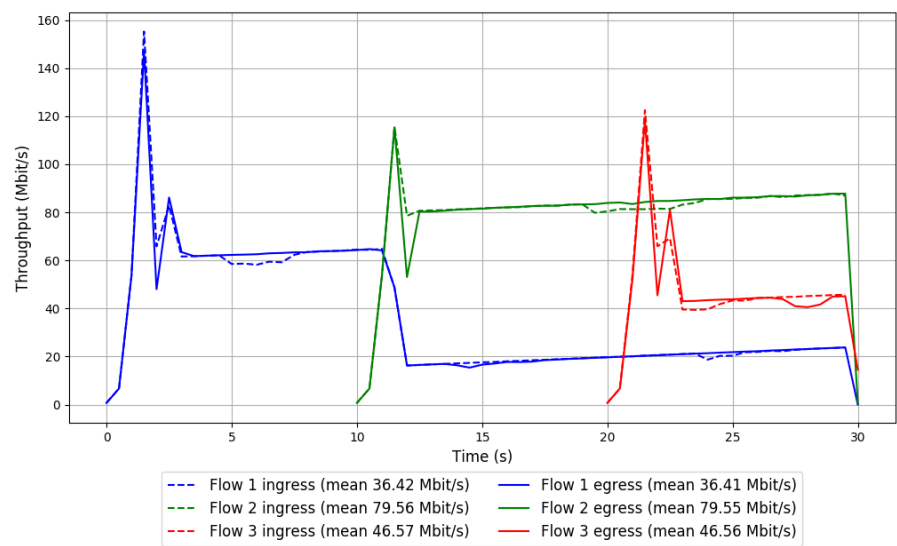


Run 9: Statistics of TCP Vegas

Start at: 2017-12-12 02:18:02  
End at: 2017-12-12 02:18:32  
Local clock offset: -2.911 ms  
Remote clock offset: -6.678 ms

```
# Below is generated by plot.py at 2017-12-12 04:12:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.81 Mbit/s
95th percentile per-packet one-way delay: 89.943 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 89.659 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 79.55 Mbit/s
95th percentile per-packet one-way delay: 85.189 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 96.370 ms
Loss rate: 0.02%
```

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

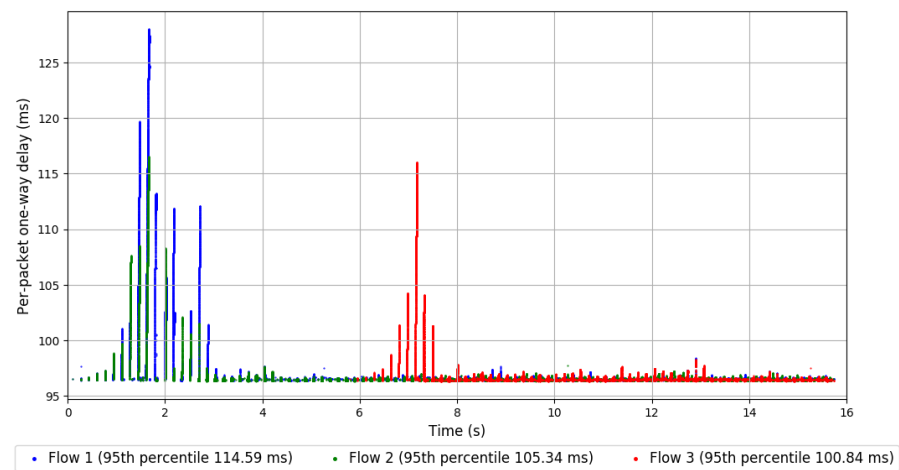
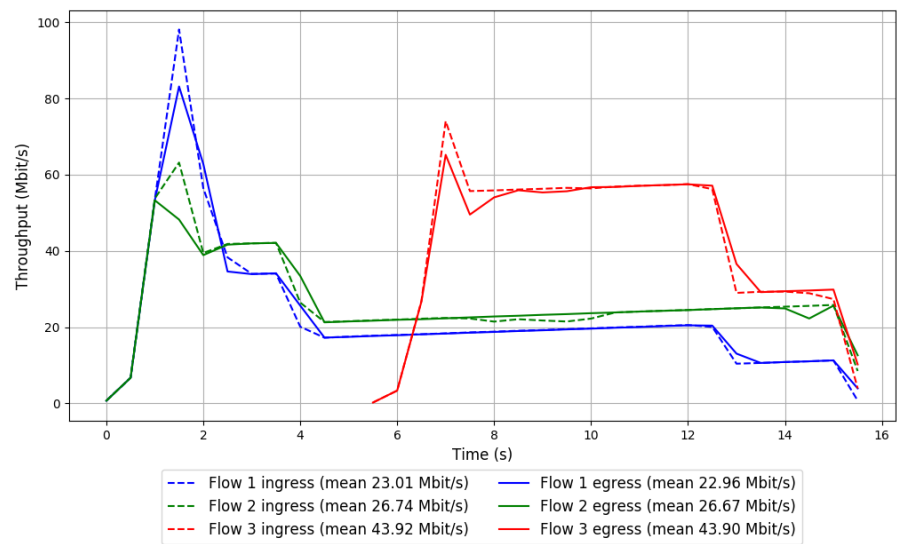
Start at: 2017-12-12 02:38:10

End at: 2017-12-12 02:38:40

Local clock offset: -2.212 ms

Remote clock offset: 5.901 ms

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 23:29:34

End at: 2017-12-11 23:30:04

Local clock offset: -1.403 ms

Remote clock offset: 0.809 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 231.81 Mbit/s

95th percentile per-packet one-way delay: 122.581 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 155.30 Mbit/s

95th percentile per-packet one-way delay: 122.749 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 100.33 Mbit/s

95th percentile per-packet one-way delay: 123.710 ms

Loss rate: 0.83%

-- Flow 3:

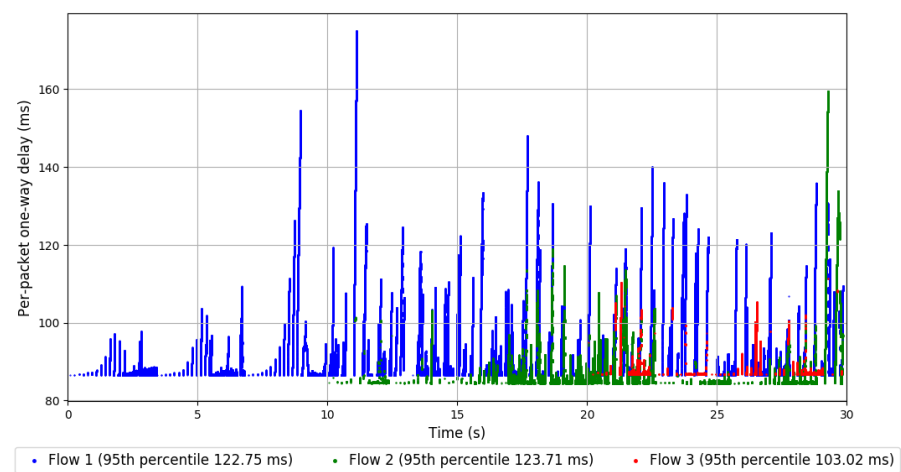
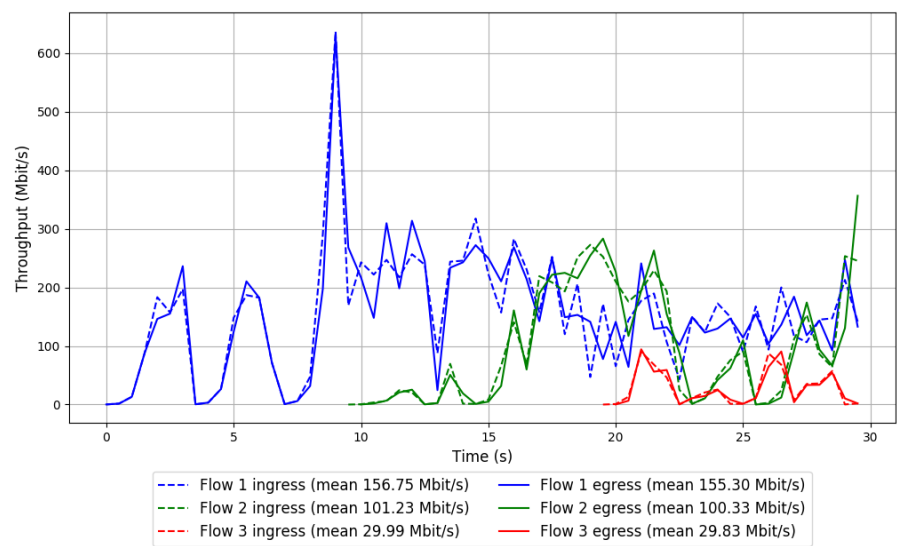
Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 103.015 ms

Loss rate: 0.62%



Run 1: Report of Verus — Data Link

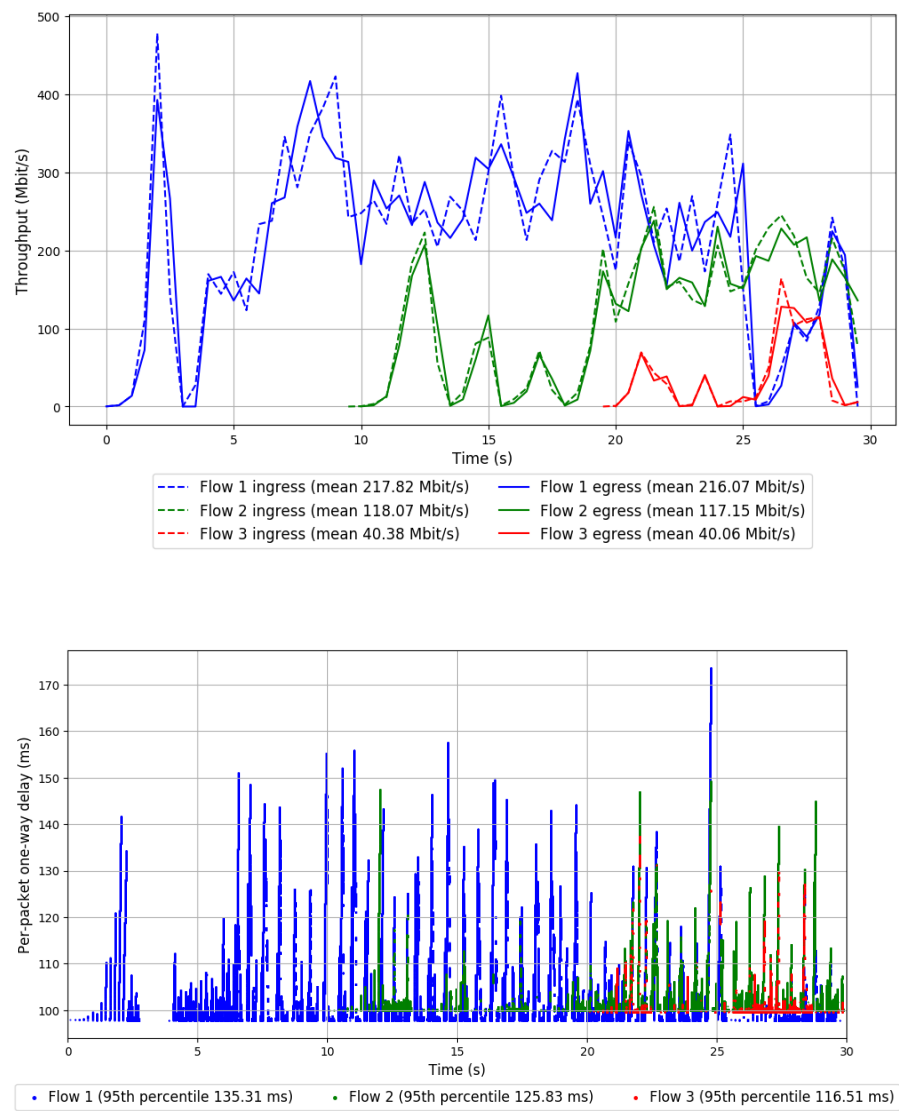


Run 2: Statistics of Verus

Start at: 2017-12-11 23:49:38  
End at: 2017-12-11 23:50:08  
Local clock offset: -2.175 ms  
Remote clock offset: 14.271 ms

# Below is generated by plot.py at 2017-12-12 04:12:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 305.99 Mbit/s  
95th percentile per-packet one-way delay: 133.131 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 216.07 Mbit/s  
95th percentile per-packet one-way delay: 135.307 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 117.15 Mbit/s  
95th percentile per-packet one-way delay: 125.826 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 40.06 Mbit/s  
95th percentile per-packet one-way delay: 116.506 ms  
Loss rate: 0.77%

Run 2: Report of Verus — Data Link

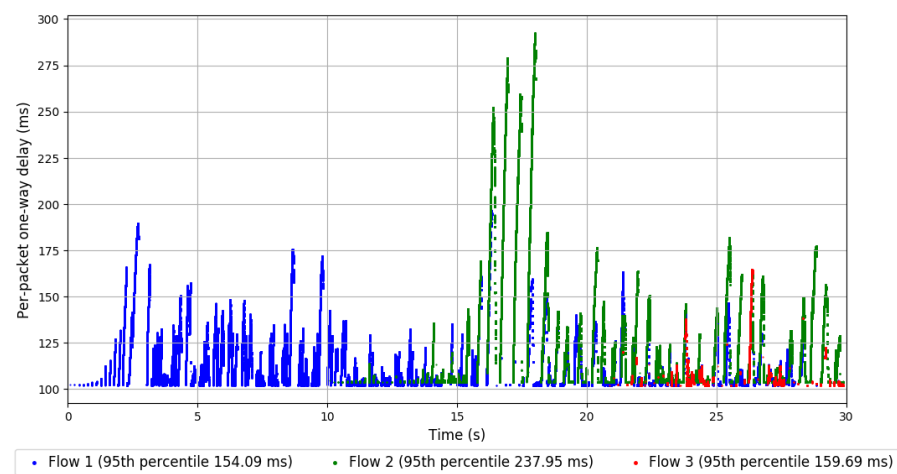
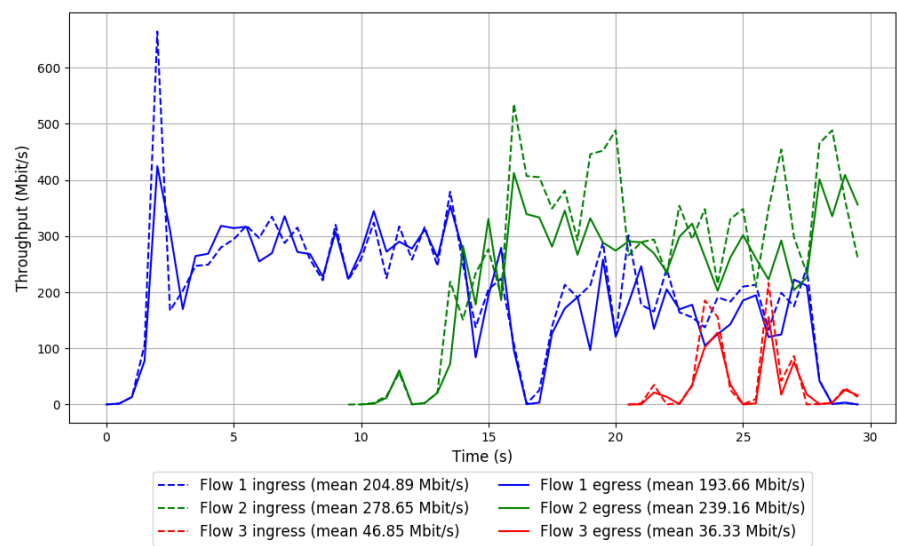


Run 3: Statistics of Verus

Start at: 2017-12-12 00:09:43  
End at: 2017-12-12 00:10:13  
Local clock offset: -2.181 ms  
Remote clock offset: 17.651 ms

# Below is generated by plot.py at 2017-12-12 04:12:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 363.38 Mbit/s  
95th percentile per-packet one-way delay: 182.871 ms  
Loss rate: 10.06%  
-- Flow 1:  
Average throughput: 193.66 Mbit/s  
95th percentile per-packet one-way delay: 154.088 ms  
Loss rate: 5.48%  
-- Flow 2:  
Average throughput: 239.16 Mbit/s  
95th percentile per-packet one-way delay: 237.953 ms  
Loss rate: 14.17%  
-- Flow 3:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 159.695 ms  
Loss rate: 22.45%

Run 3: Report of Verus — Data Link

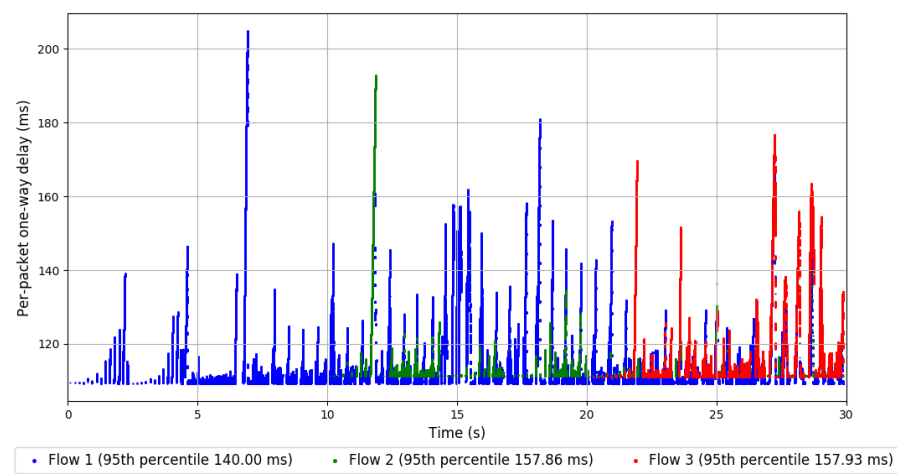
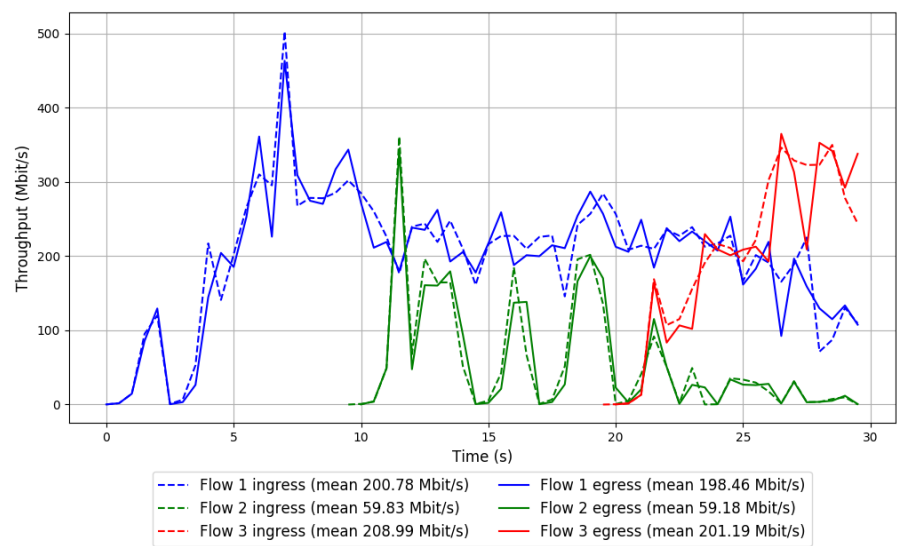


Run 4: Statistics of Verus

Start at: 2017-12-12 00:29:50  
End at: 2017-12-12 00:30:20  
Local clock offset: -2.833 ms  
Remote clock offset: 24.763 ms

# Below is generated by plot.py at 2017-12-12 04:12:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 303.88 Mbit/s  
95th percentile per-packet one-way delay: 148.663 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 198.46 Mbit/s  
95th percentile per-packet one-way delay: 140.001 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 59.18 Mbit/s  
95th percentile per-packet one-way delay: 157.859 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 201.19 Mbit/s  
95th percentile per-packet one-way delay: 157.933 ms  
Loss rate: 3.74%

Run 4: Report of Verus — Data Link



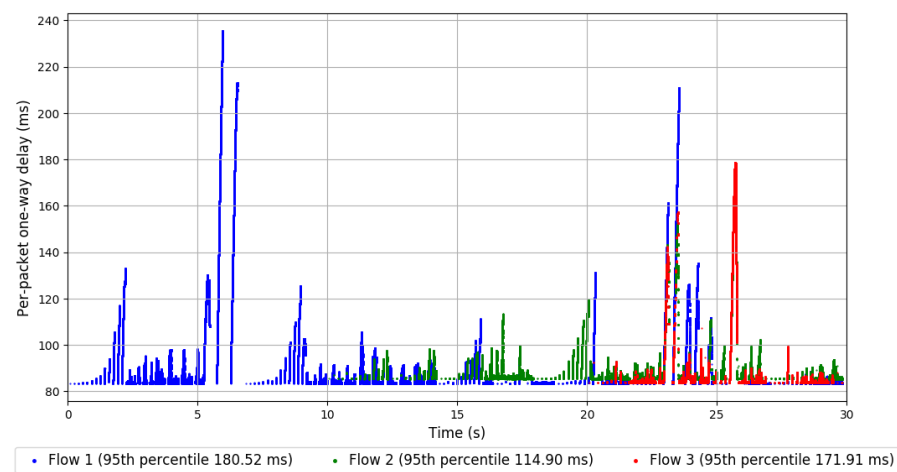
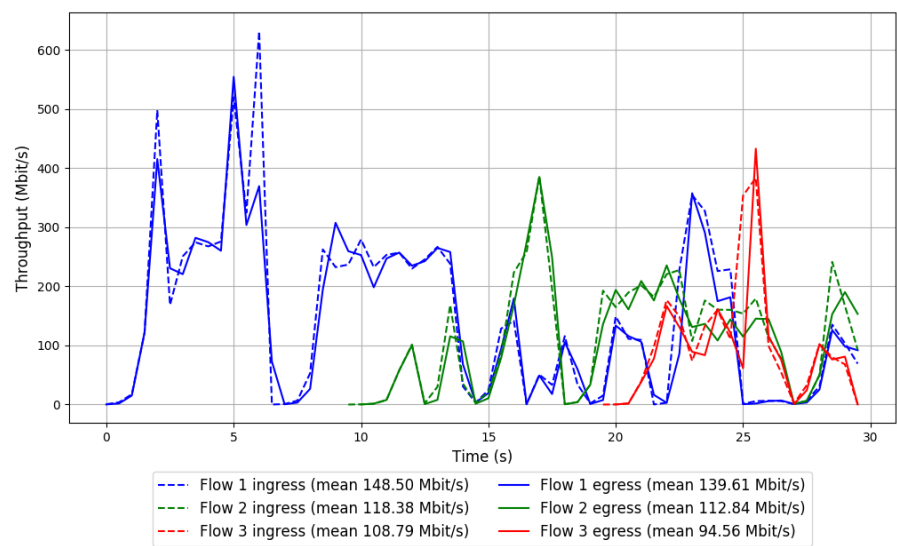
Run 5: Statistics of Verus

Start at: 2017-12-12 00:49:54  
End at: 2017-12-12 00:50:24  
Local clock offset: -3.429 ms  
Remote clock offset: -2.098 ms

# Below is generated by plot.py at 2017-12-12 04:12:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 245.41 Mbit/s  
95th percentile per-packet one-way delay: 160.536 ms  
Loss rate: 6.55%  
-- Flow 1:  
Average throughput: 139.61 Mbit/s  
95th percentile per-packet one-way delay: 180.516 ms  
Loss rate: 5.98%  
-- Flow 2:  
Average throughput: 112.84 Mbit/s  
95th percentile per-packet one-way delay: 114.898 ms  
Loss rate: 4.68%  
-- Flow 3:  
Average throughput: 94.56 Mbit/s  
95th percentile per-packet one-way delay: 171.911 ms  
Loss rate: 13.07%



Run 5: Report of Verus — Data Link

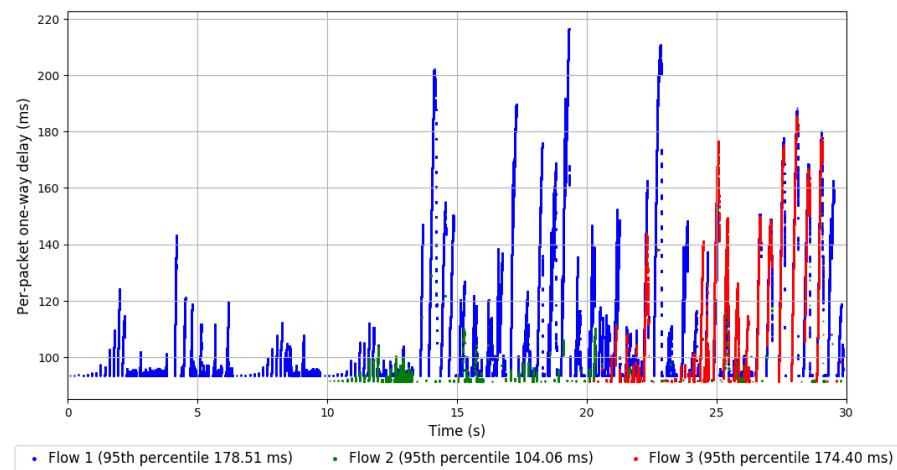
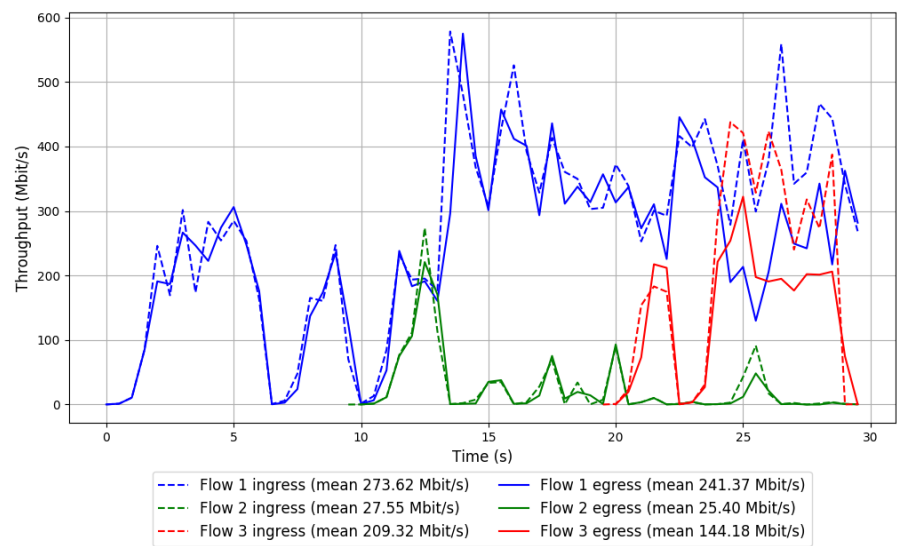


Run 6: Statistics of Verus

Start at: 2017-12-12 01:09:52  
End at: 2017-12-12 01:10:22  
Local clock offset: -3.131 ms  
Remote clock offset: 5.423 ms

# Below is generated by plot.py at 2017-12-12 04:12:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 305.12 Mbit/s  
95th percentile per-packet one-way delay: 175.547 ms  
Loss rate: 15.23%  
-- Flow 1:  
Average throughput: 241.37 Mbit/s  
95th percentile per-packet one-way delay: 178.511 ms  
Loss rate: 11.78%  
-- Flow 2:  
Average throughput: 25.40 Mbit/s  
95th percentile per-packet one-way delay: 104.057 ms  
Loss rate: 7.81%  
-- Flow 3:  
Average throughput: 144.18 Mbit/s  
95th percentile per-packet one-way delay: 174.395 ms  
Loss rate: 31.07%

Run 6: Report of Verus — Data Link

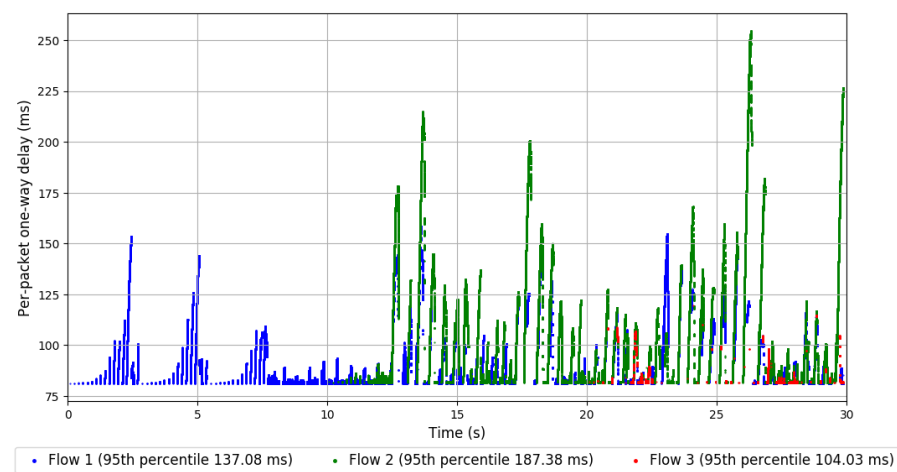
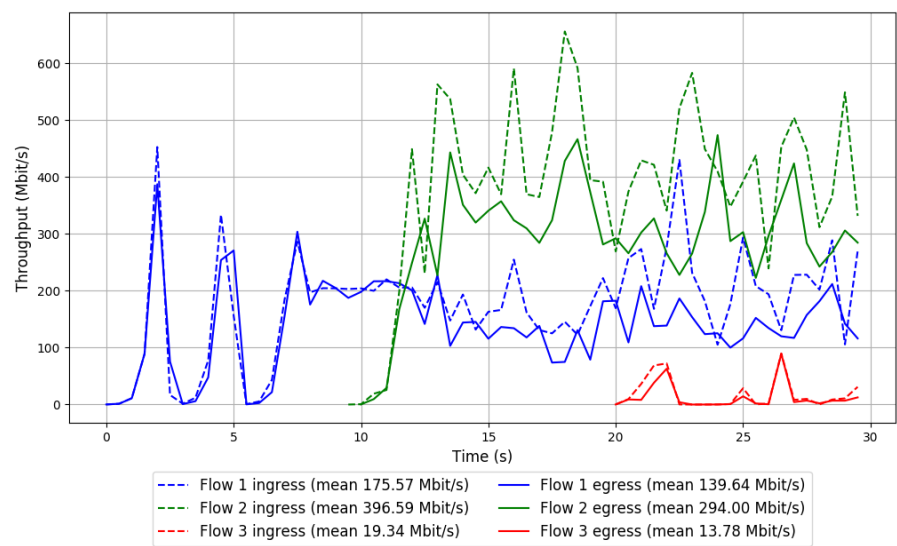


Run 7: Statistics of Verus

Start at: 2017-12-12 01:30:07  
End at: 2017-12-12 01:30:37  
Local clock offset: -2.609 ms  
Remote clock offset: -6.843 ms

# Below is generated by plot.py at 2017-12-12 04:13:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 339.58 Mbit/s  
95th percentile per-packet one-way delay: 167.061 ms  
Loss rate: 23.45%  
-- Flow 1:  
Average throughput: 139.64 Mbit/s  
95th percentile per-packet one-way delay: 137.077 ms  
Loss rate: 20.46%  
-- Flow 2:  
Average throughput: 294.00 Mbit/s  
95th percentile per-packet one-way delay: 187.380 ms  
Loss rate: 25.32%  
-- Flow 3:  
Average throughput: 13.78 Mbit/s  
95th percentile per-packet one-way delay: 104.035 ms  
Loss rate: 28.72%

Run 7: Report of Verus — Data Link

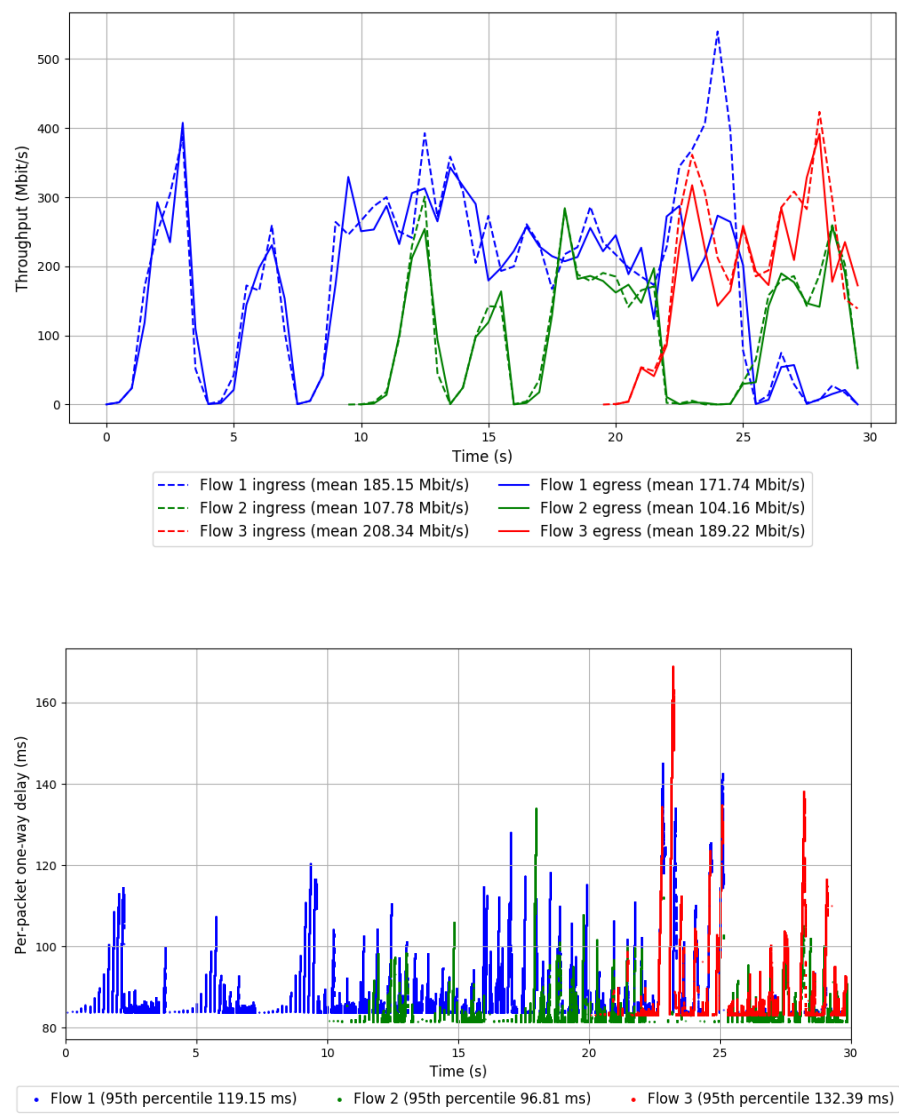


Run 8: Statistics of Verus

Start at: 2017-12-12 01:50:24  
End at: 2017-12-12 01:50:54  
Local clock offset: -3.082 ms  
Remote clock offset: -5.358 ms

# Below is generated by plot.py at 2017-12-12 04:14:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 302.24 Mbit/s  
95th percentile per-packet one-way delay: 117.605 ms  
Loss rate: 6.77%  
-- Flow 1:  
Average throughput: 171.74 Mbit/s  
95th percentile per-packet one-way delay: 119.150 ms  
Loss rate: 7.24%  
-- Flow 2:  
Average throughput: 104.16 Mbit/s  
95th percentile per-packet one-way delay: 96.812 ms  
Loss rate: 3.33%  
-- Flow 3:  
Average throughput: 189.22 Mbit/s  
95th percentile per-packet one-way delay: 132.388 ms  
Loss rate: 9.10%

Run 8: Report of Verus — Data Link



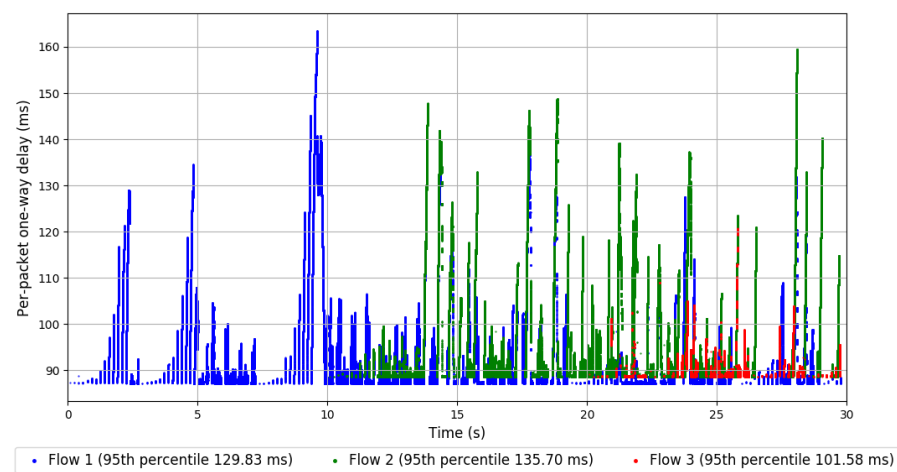
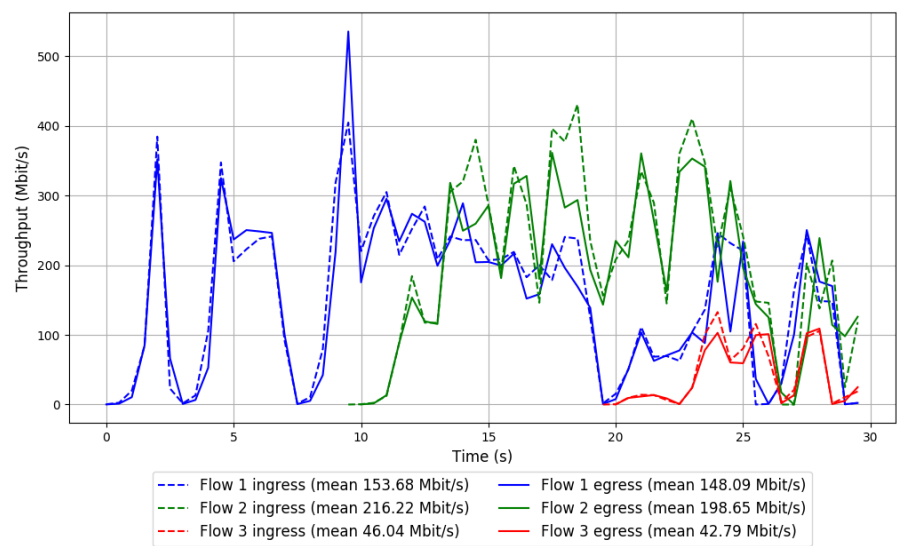
Run 9: Statistics of Verus

Start at: 2017-12-12 02:10:31  
End at: 2017-12-12 02:11:01  
Local clock offset: -3.177 ms  
Remote clock offset: -1.211 ms

# Below is generated by plot.py at 2017-12-12 04:14:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 293.33 Mbit/s  
95th percentile per-packet one-way delay: 132.786 ms  
Loss rate: 5.80%  
-- Flow 1:  
Average throughput: 148.09 Mbit/s  
95th percentile per-packet one-way delay: 129.833 ms  
Loss rate: 3.63%  
-- Flow 2:  
Average throughput: 198.65 Mbit/s  
95th percentile per-packet one-way delay: 135.699 ms  
Loss rate: 8.00%  
-- Flow 3:  
Average throughput: 42.79 Mbit/s  
95th percentile per-packet one-way delay: 101.582 ms  
Loss rate: 7.00%



Run 9: Report of Verus — Data Link

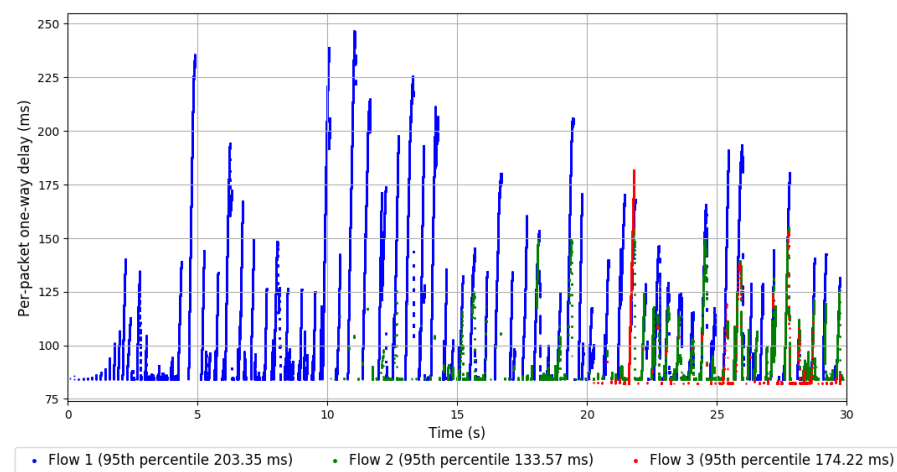
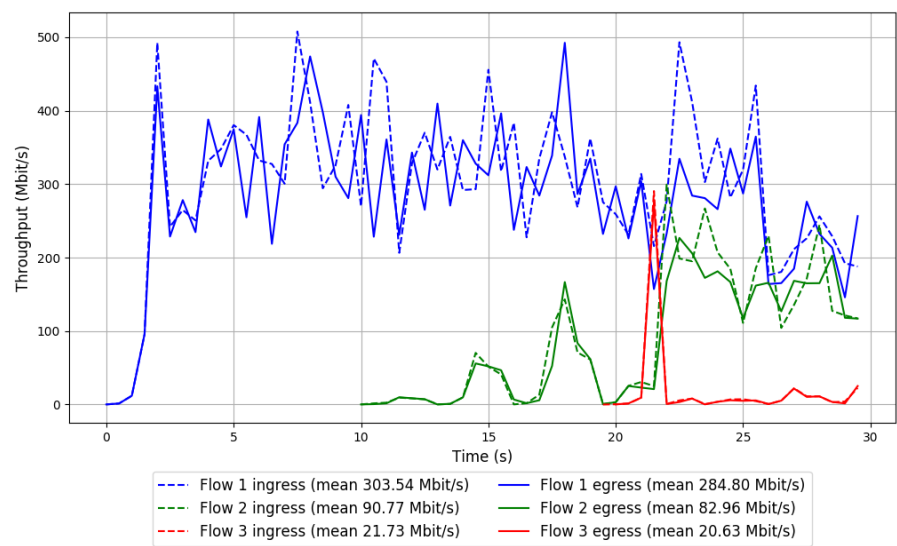


Run 10: Statistics of Verus

Start at: 2017-12-12 02:30:40  
End at: 2017-12-12 02:31:10  
Local clock offset: -2.415 ms  
Remote clock offset: -6.215 ms

# Below is generated by plot.py at 2017-12-12 04:14:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 345.36 Mbit/s  
95th percentile per-packet one-way delay: 199.492 ms  
Loss rate: 6.43%  
-- Flow 1:  
Average throughput: 284.80 Mbit/s  
95th percentile per-packet one-way delay: 203.354 ms  
Loss rate: 6.02%  
-- Flow 2:  
Average throughput: 82.96 Mbit/s  
95th percentile per-packet one-way delay: 133.566 ms  
Loss rate: 8.61%  
-- Flow 3:  
Average throughput: 20.63 Mbit/s  
95th percentile per-packet one-way delay: 174.217 ms  
Loss rate: 5.02%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 23:18:15

End at: 2017-12-11 23:18:45

Local clock offset: -0.763 ms

Remote clock offset: 7.076 ms

# Below is generated by plot.py at 2017-12-12 04:14:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 167.34 Mbit/s

95th percentile per-packet one-way delay: 93.454 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 93.476 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 88.01 Mbit/s

95th percentile per-packet one-way delay: 91.812 ms

Loss rate: 0.00%

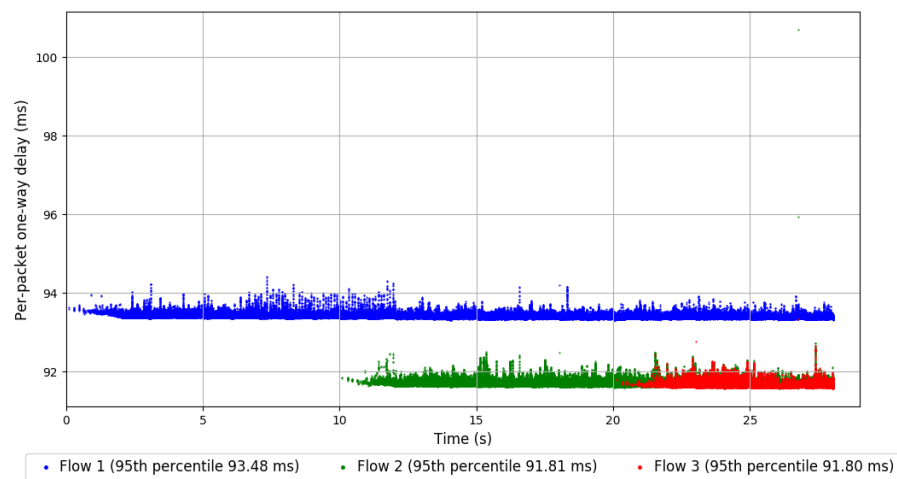
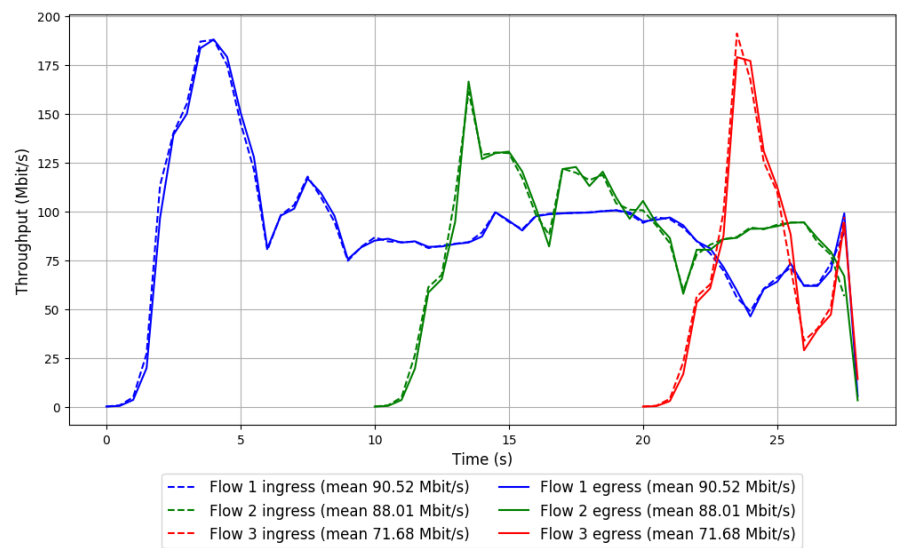
-- Flow 3:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 91.803 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

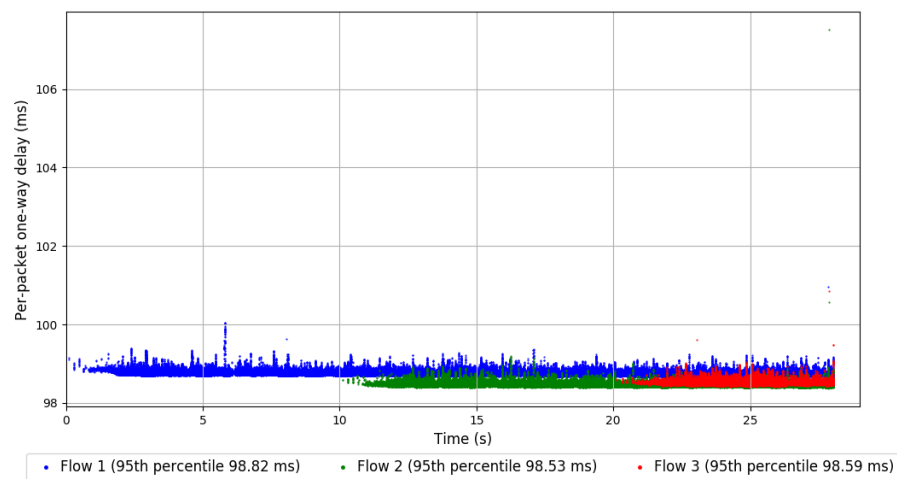
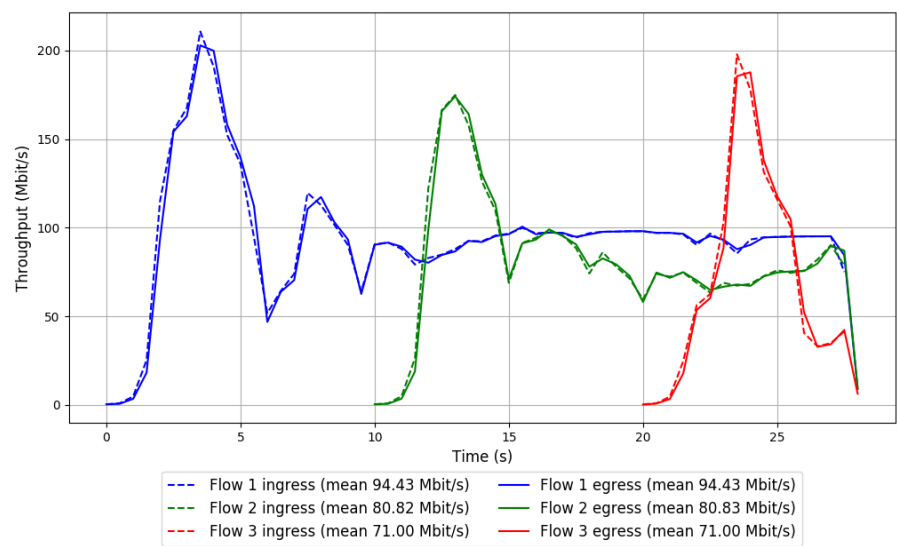


Run 2: Statistics of Copa

Start at: 2017-12-11 23:38:19  
End at: 2017-12-11 23:38:49  
Local clock offset: -1.877 ms  
Remote clock offset: 13.022 ms

# Below is generated by plot.py at 2017-12-12 04:14:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.46 Mbit/s  
95th percentile per-packet one-way delay: 98.798 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 94.43 Mbit/s  
95th percentile per-packet one-way delay: 98.820 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 80.83 Mbit/s  
95th percentile per-packet one-way delay: 98.534 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 71.00 Mbit/s  
95th percentile per-packet one-way delay: 98.591 ms  
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



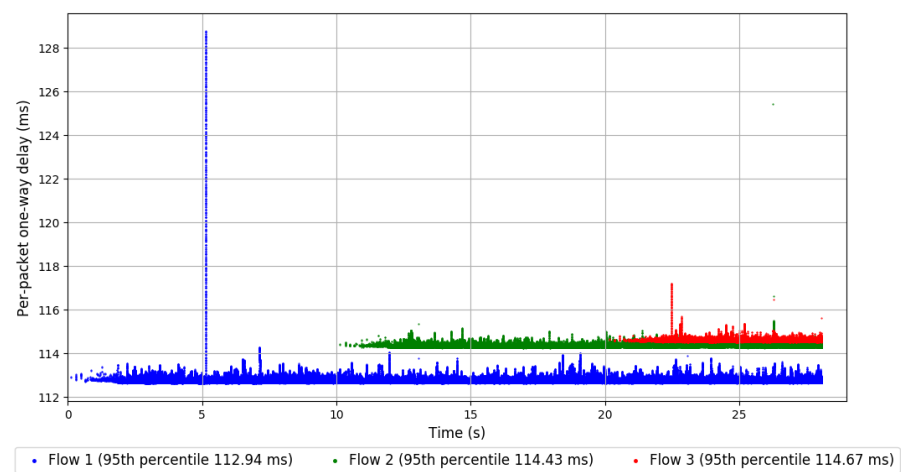
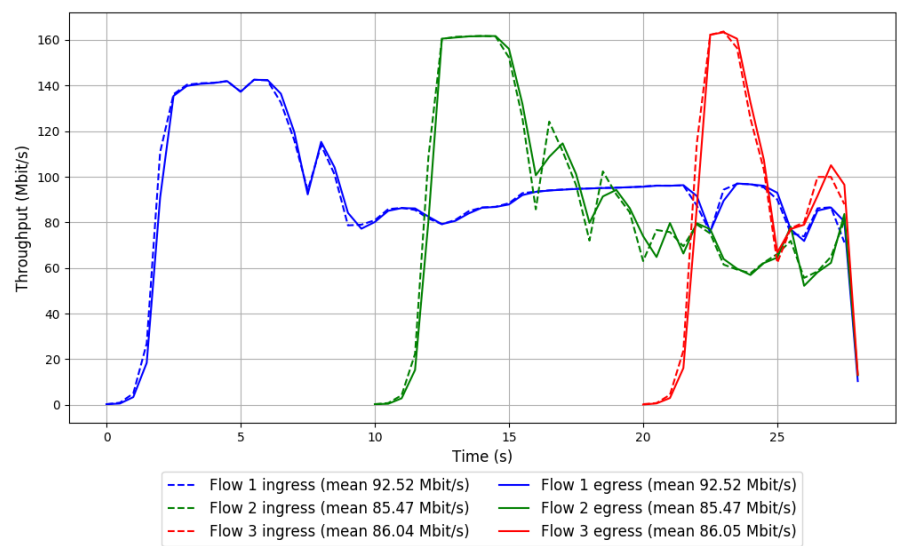
Run 3: Statistics of Copa

Start at: 2017-12-11 23:58:30  
End at: 2017-12-11 23:59:00  
Local clock offset: -2.023 ms  
Remote clock offset: 28.773 ms

# Below is generated by plot.py at 2017-12-12 04:16:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 171.74 Mbit/s  
95th percentile per-packet one-way delay: 114.599 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 92.52 Mbit/s  
95th percentile per-packet one-way delay: 112.943 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 85.47 Mbit/s  
95th percentile per-packet one-way delay: 114.430 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 86.05 Mbit/s  
95th percentile per-packet one-way delay: 114.671 ms  
Loss rate: 0.02%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-12 00:18:36

End at: 2017-12-12 00:19:06

Local clock offset: -2.449 ms

Remote clock offset: 26.59 ms

# Below is generated by plot.py at 2017-12-12 04:16:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 148.80 Mbit/s

95th percentile per-packet one-way delay: 112.370 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.51 Mbit/s

95th percentile per-packet one-way delay: 111.101 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 112.418 ms

Loss rate: 0.01%

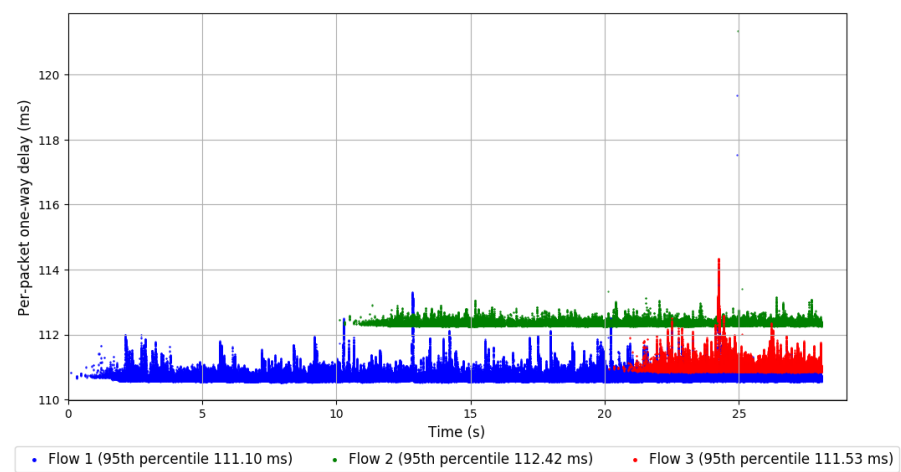
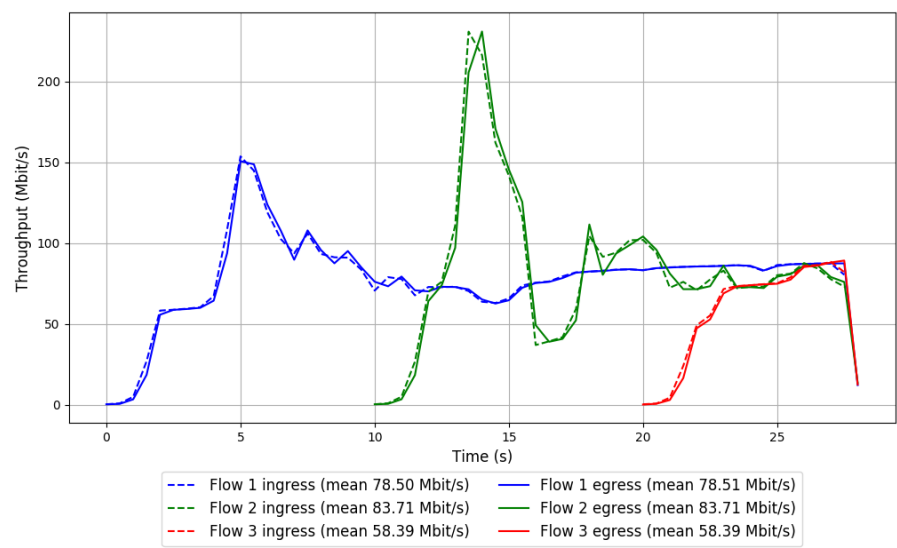
-- Flow 3:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 111.527 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

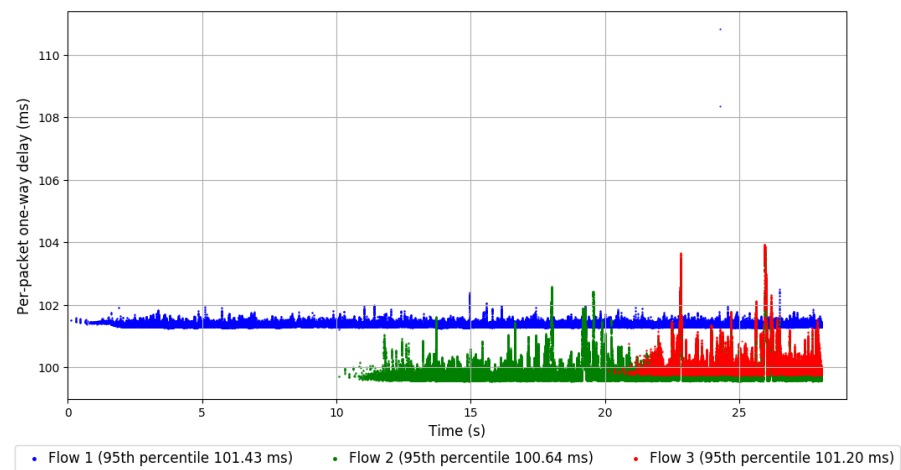
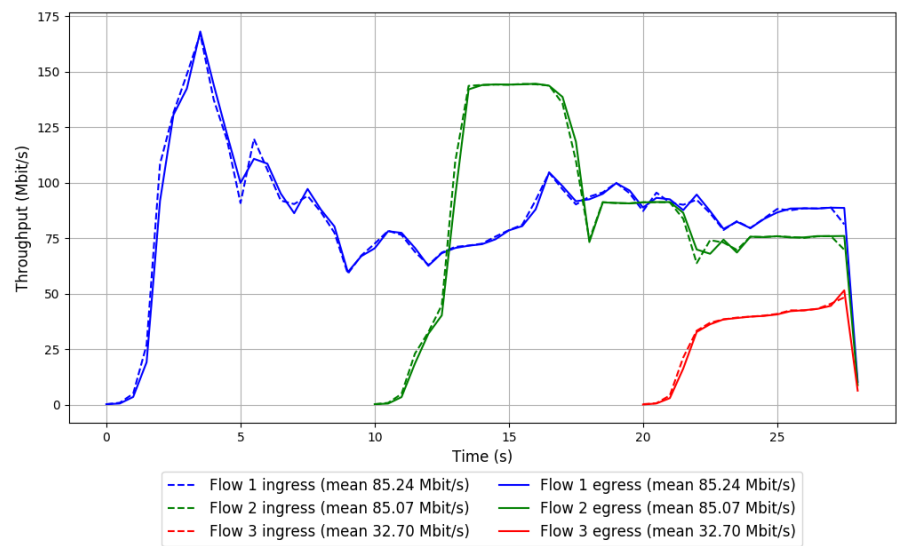


Run 5: Statistics of Copa

Start at: 2017-12-12 00:38:36  
End at: 2017-12-12 00:39:06  
Local clock offset: -2.985 ms  
Remote clock offset: 14.626 ms

```
# Below is generated by plot.py at 2017-12-12 04:17:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.13 Mbit/s
95th percentile per-packet one-way delay: 101.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 101.428 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 100.640 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 101.202 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

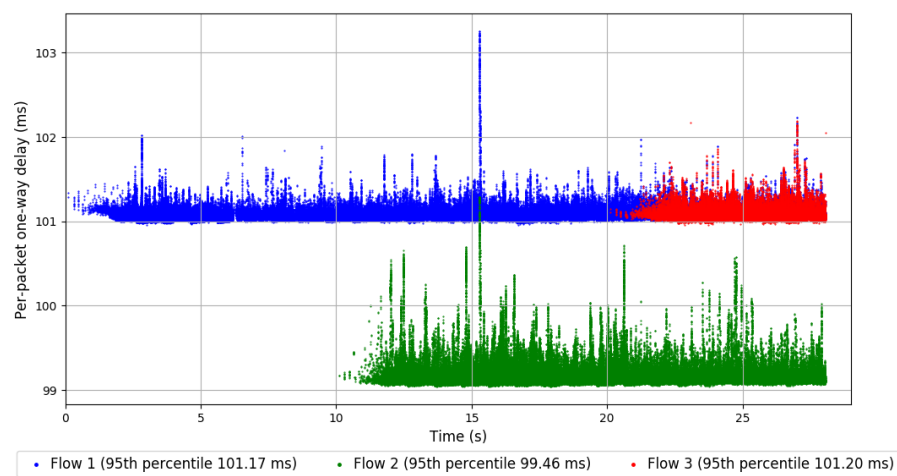
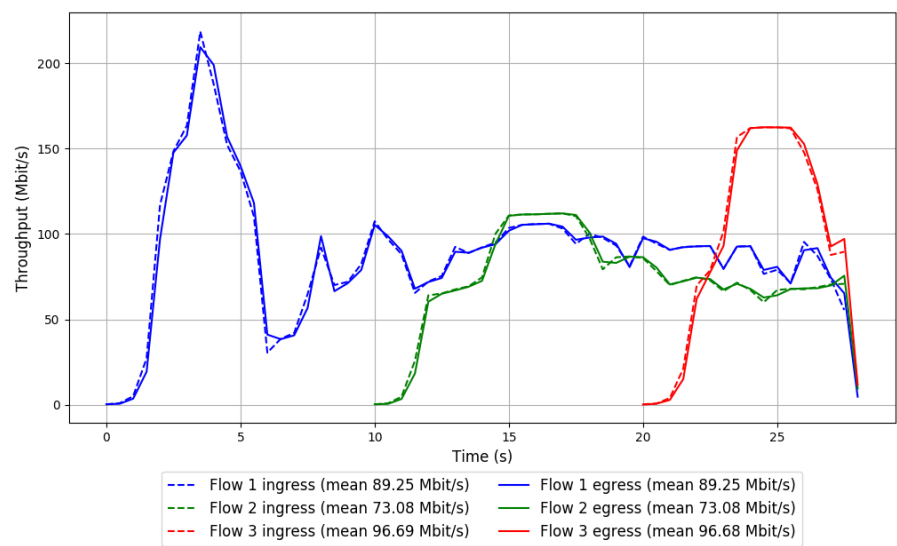


Run 6: Statistics of Copa

Start at: 2017-12-12 00:58:37  
End at: 2017-12-12 00:59:07  
Local clock offset: -3.535 ms  
Remote clock offset: 13.361 ms

# Below is generated by plot.py at 2017-12-12 04:18:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 163.58 Mbit/s  
95th percentile per-packet one-way delay: 101.157 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 89.25 Mbit/s  
95th percentile per-packet one-way delay: 101.174 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 73.08 Mbit/s  
95th percentile per-packet one-way delay: 99.462 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 96.68 Mbit/s  
95th percentile per-packet one-way delay: 101.198 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



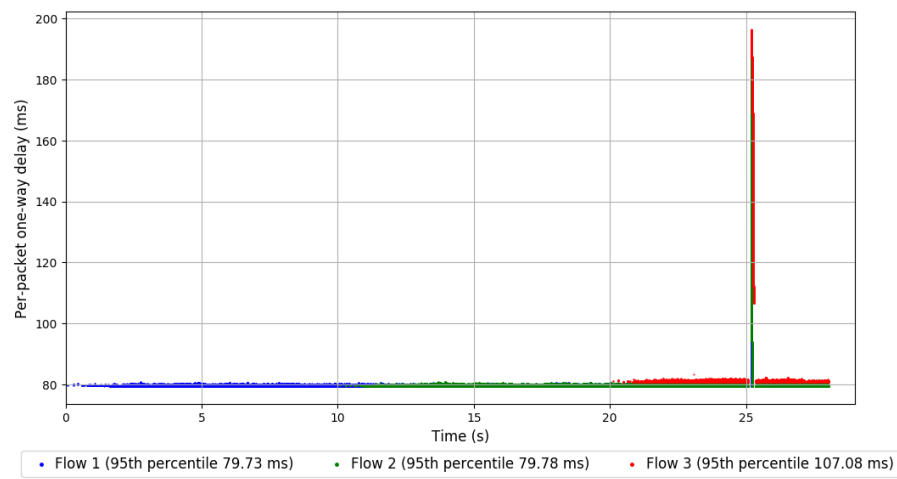
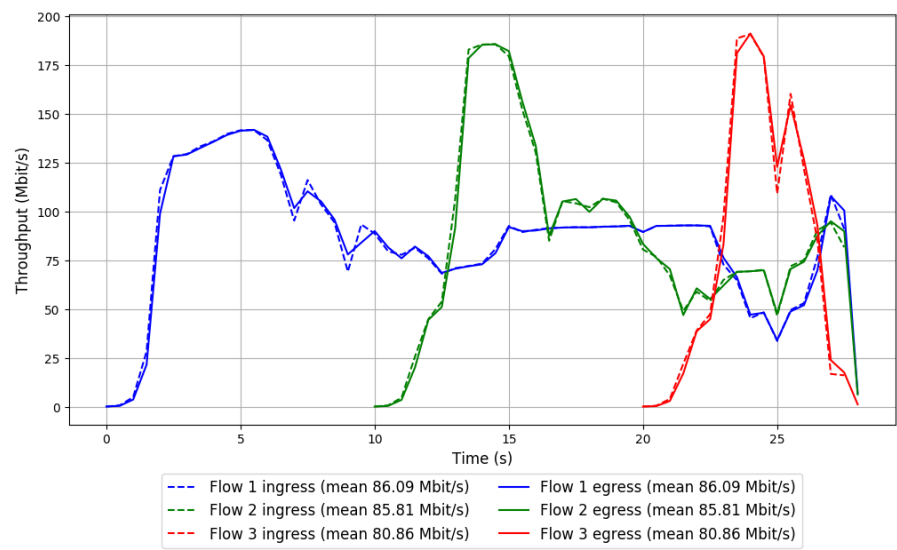
Run 7: Statistics of Copa

Start at: 2017-12-12 01:18:46  
End at: 2017-12-12 01:19:16  
Local clock offset: -2.882 ms  
Remote clock offset: -6.939 ms

# Below is generated by plot.py at 2017-12-12 04:18:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 164.10 Mbit/s  
95th percentile per-packet one-way delay: 80.892 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 86.09 Mbit/s  
95th percentile per-packet one-way delay: 79.727 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 85.81 Mbit/s  
95th percentile per-packet one-way delay: 79.776 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 80.86 Mbit/s  
95th percentile per-packet one-way delay: 107.076 ms  
Loss rate: 0.01%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-12 01:39:06

End at: 2017-12-12 01:39:36

Local clock offset: -2.84 ms

Remote clock offset: 3.402 ms

# Below is generated by plot.py at 2017-12-12 04:19:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 167.08 Mbit/s

95th percentile per-packet one-way delay: 90.408 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 92.54 Mbit/s

95th percentile per-packet one-way delay: 90.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.60 Mbit/s

95th percentile per-packet one-way delay: 90.246 ms

Loss rate: 0.00%

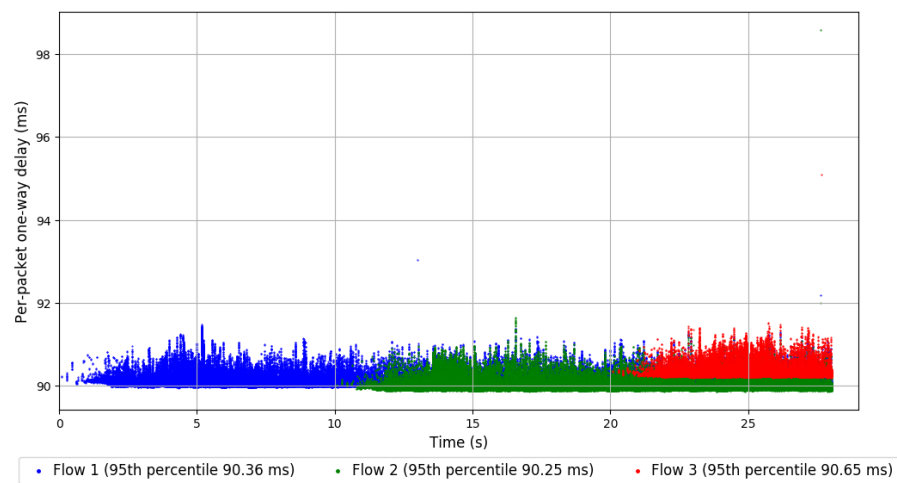
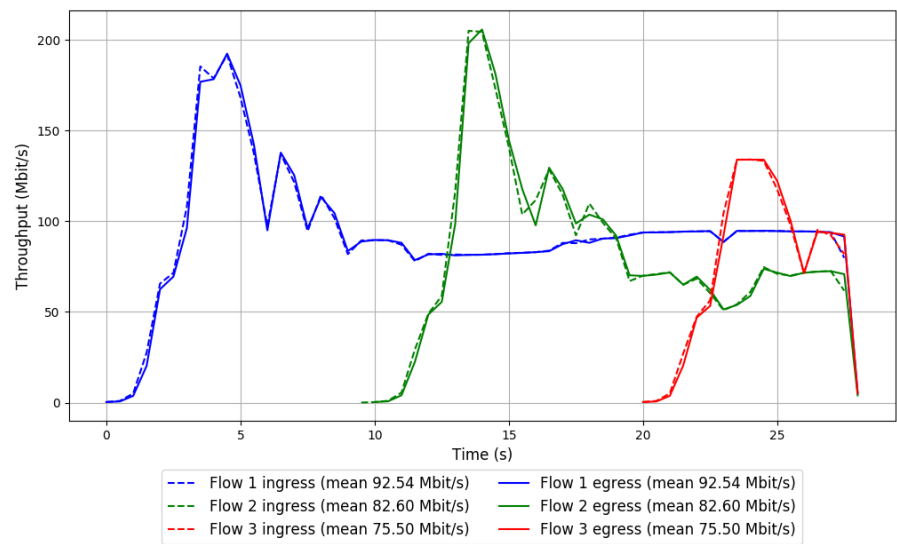
-- Flow 3:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 90.649 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

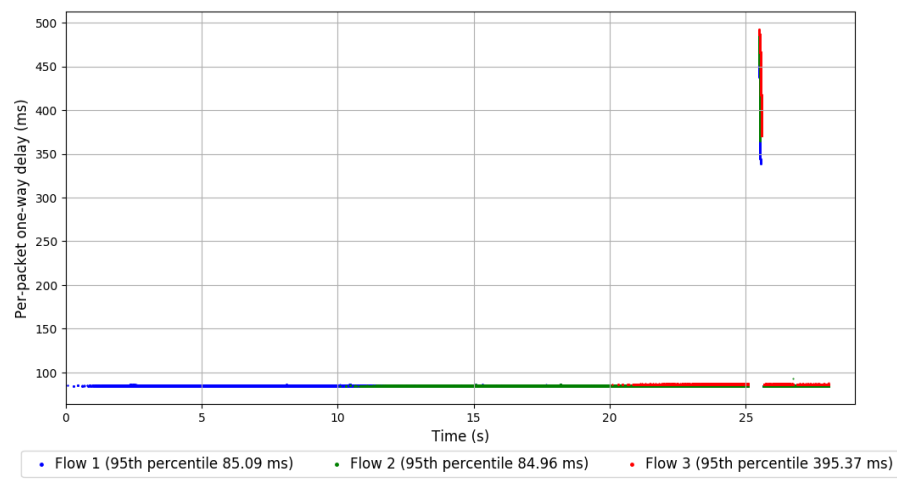
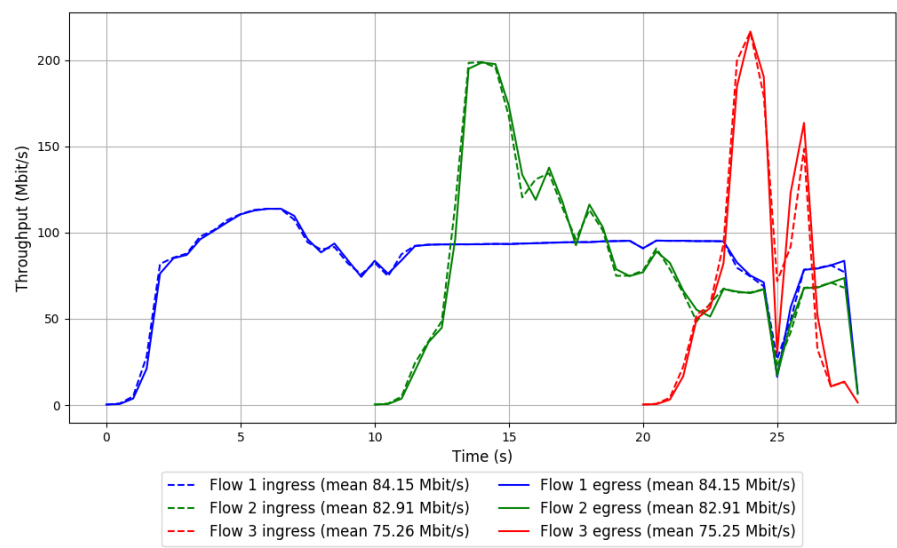


Run 9: Statistics of Copa

Start at: 2017-12-12 01:59:17  
End at: 2017-12-12 01:59:47  
Local clock offset: -3.304 ms  
Remote clock offset: -2.704 ms

# Below is generated by plot.py at 2017-12-12 04:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 158.77 Mbit/s  
95th percentile per-packet one-way delay: 86.489 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 84.15 Mbit/s  
95th percentile per-packet one-way delay: 85.088 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 82.91 Mbit/s  
95th percentile per-packet one-way delay: 84.963 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 75.25 Mbit/s  
95th percentile per-packet one-way delay: 395.367 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

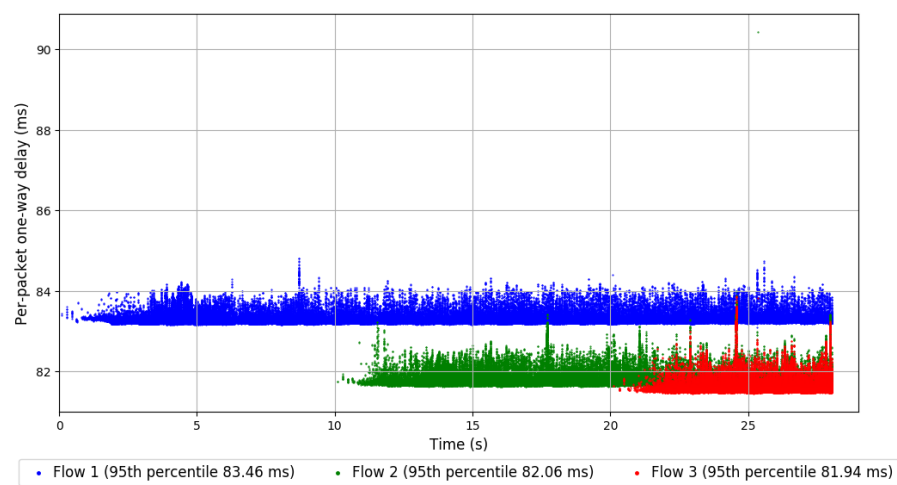
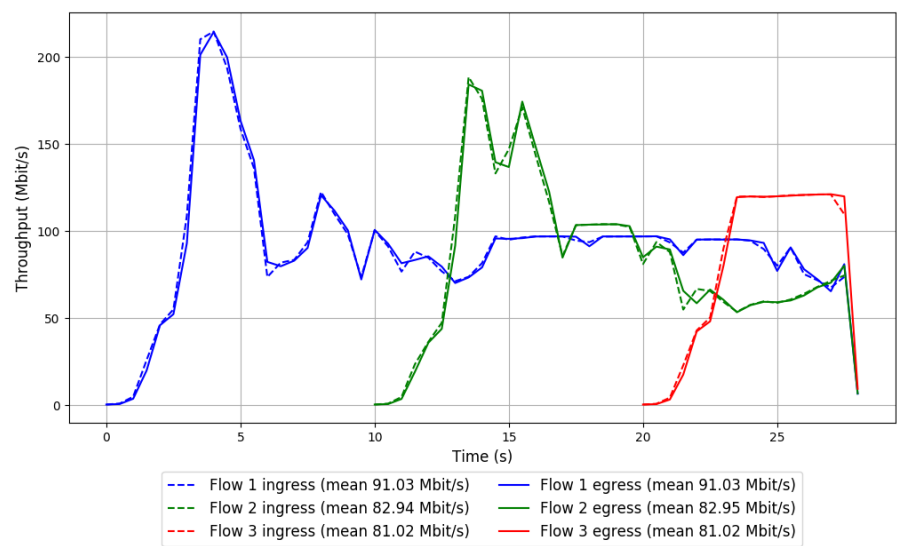


Run 10: Statistics of Copa

Start at: 2017-12-12 02:19:22  
End at: 2017-12-12 02:19:52  
Local clock offset: -2.951 ms  
Remote clock offset: -6.831 ms

# Below is generated by plot.py at 2017-12-12 04:19:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 167.20 Mbit/s  
95th percentile per-packet one-way delay: 83.362 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 91.03 Mbit/s  
95th percentile per-packet one-way delay: 83.458 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 82.95 Mbit/s  
95th percentile per-packet one-way delay: 82.057 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 81.02 Mbit/s  
95th percentile per-packet one-way delay: 81.940 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



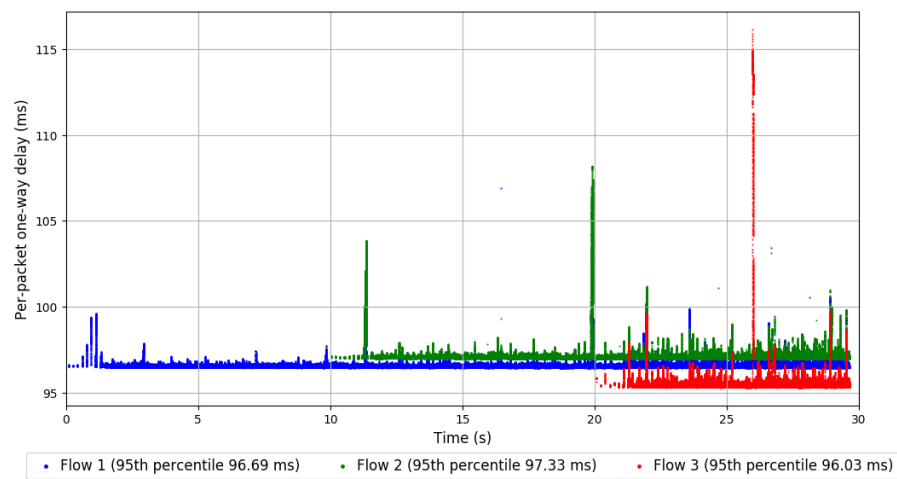
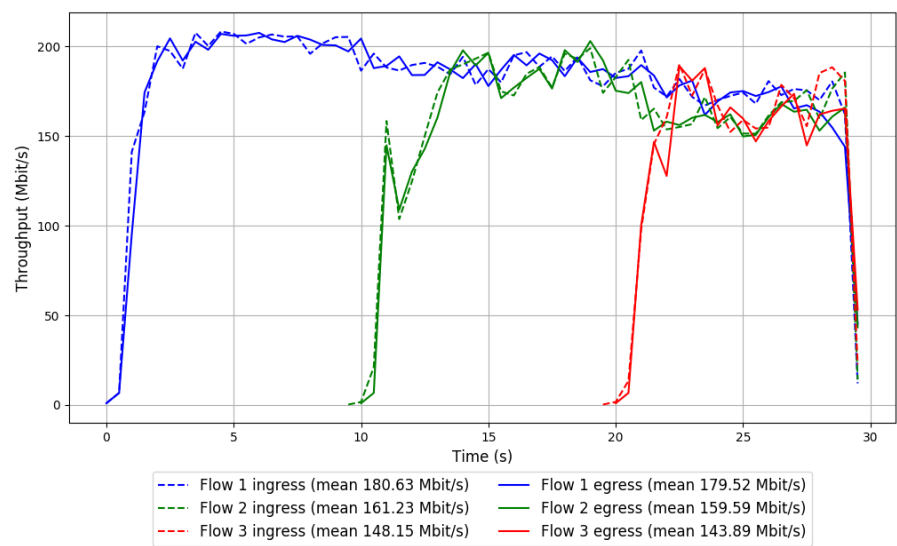
```
Run 1: Statistics of Indigo

Start at: 2017-12-11 23:27:56
End at: 2017-12-11 23:28:26
Local clock offset: -1.354 ms
Remote clock offset: 10.98 ms

# Below is generated by plot.py at 2017-12-12 04:20:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.14 Mbit/s
95th percentile per-packet one-way delay: 97.150 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 179.52 Mbit/s
95th percentile per-packet one-way delay: 96.695 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 159.59 Mbit/s
95th percentile per-packet one-way delay: 97.326 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 143.89 Mbit/s
95th percentile per-packet one-way delay: 96.025 ms
Loss rate: 2.88%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 23:48:01

End at: 2017-12-11 23:48:31

Local clock offset: -2.213 ms

Remote clock offset: 6.425 ms

# Below is generated by plot.py at 2017-12-12 04:21:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.80 Mbit/s

95th percentile per-packet one-way delay: 92.284 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 170.59 Mbit/s

95th percentile per-packet one-way delay: 92.068 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 164.66 Mbit/s

95th percentile per-packet one-way delay: 92.922 ms

Loss rate: 0.00%

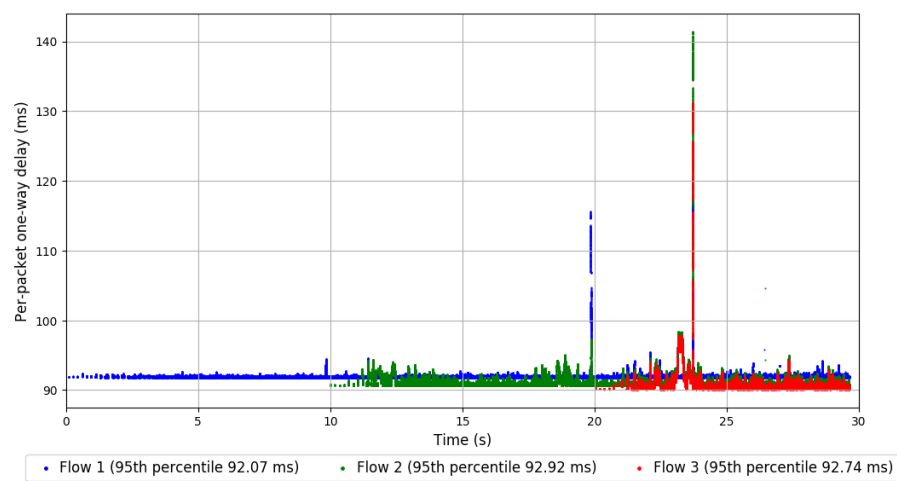
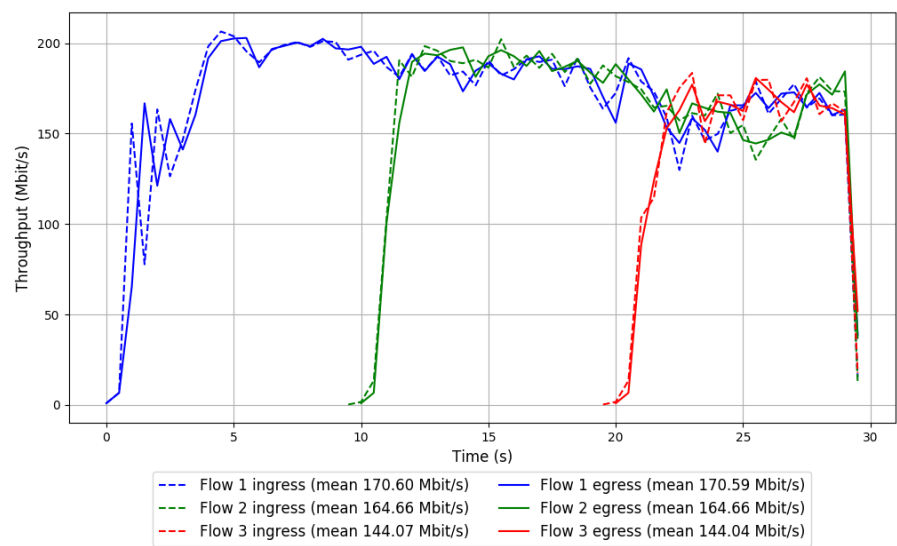
-- Flow 3:

Average throughput: 144.04 Mbit/s

95th percentile per-packet one-way delay: 92.737 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link

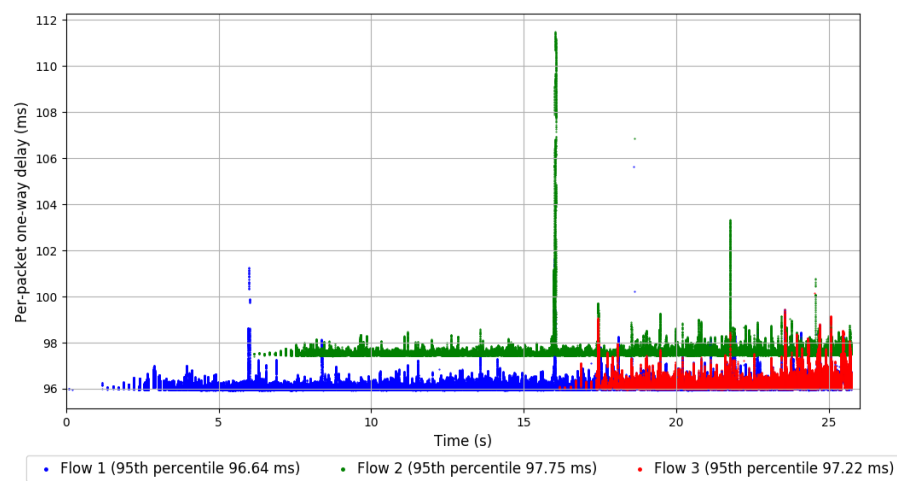
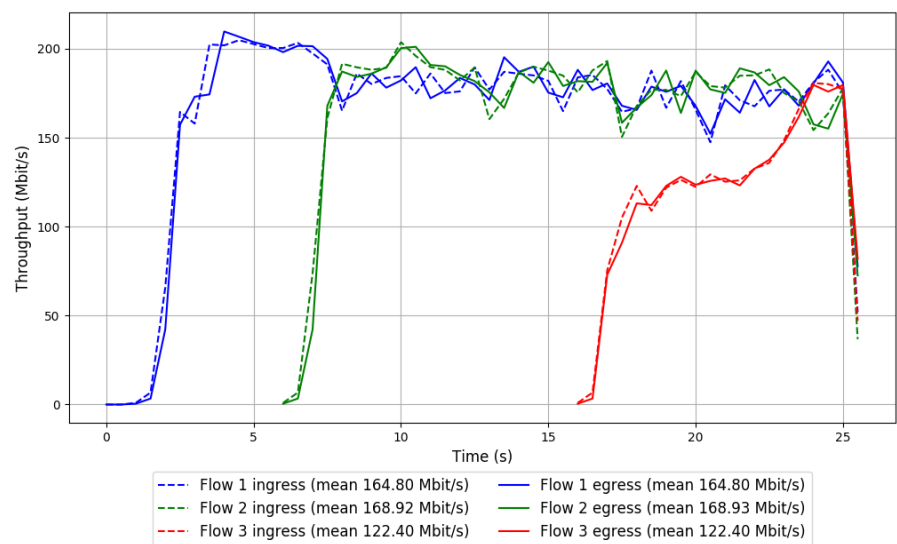


Run 3: Statistics of Indigo

Start at: 2017-12-12 00:08:09  
End at: 2017-12-12 00:08:39  
Local clock offset: -2.097 ms  
Remote clock offset: 11.902 ms

```
# Below is generated by plot.py at 2017-12-12 04:21:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.43 Mbit/s
95th percentile per-packet one-way delay: 97.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.80 Mbit/s
95th percentile per-packet one-way delay: 96.640 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.93 Mbit/s
95th percentile per-packet one-way delay: 97.745 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 122.40 Mbit/s
95th percentile per-packet one-way delay: 97.224 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

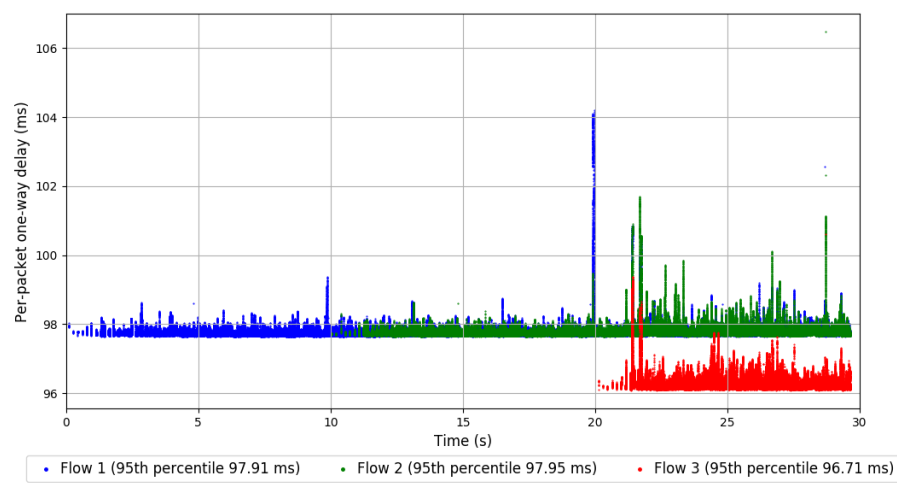
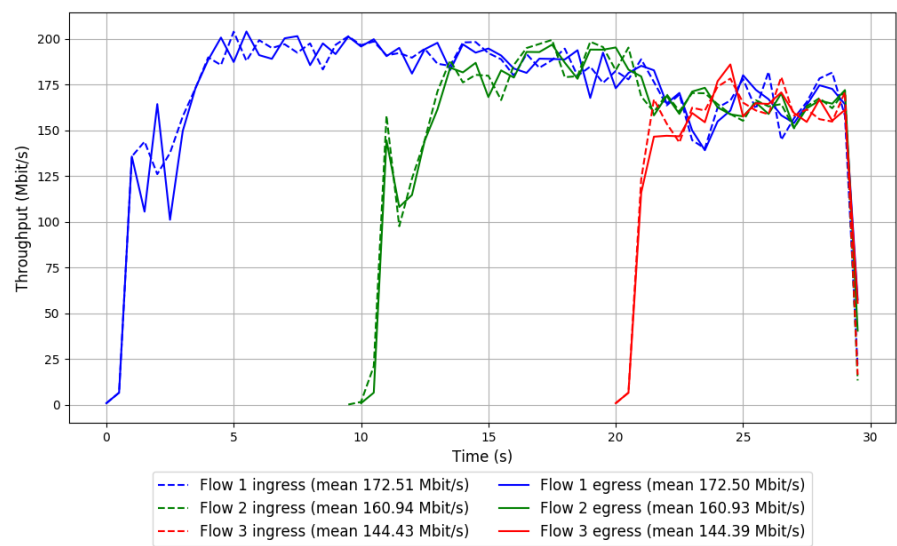


Run 4: Statistics of Indigo

Start at: 2017-12-12 00:28:13  
End at: 2017-12-12 00:28:43  
Local clock offset: -2.715 ms  
Remote clock offset: 11.277 ms

# Below is generated by plot.py at 2017-12-12 04:22:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.86 Mbit/s  
95th percentile per-packet one-way delay: 97.912 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 172.50 Mbit/s  
95th percentile per-packet one-way delay: 97.910 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 160.93 Mbit/s  
95th percentile per-packet one-way delay: 97.952 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 144.39 Mbit/s  
95th percentile per-packet one-way delay: 96.710 ms  
Loss rate: 0.03%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-12 00:48:17

End at: 2017-12-12 00:48:47

Local clock offset: -3.407 ms

Remote clock offset: 2.273 ms

# Below is generated by plot.py at 2017-12-12 04:22:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 323.92 Mbit/s

95th percentile per-packet one-way delay: 89.632 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 172.15 Mbit/s

95th percentile per-packet one-way delay: 89.719 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 158.63 Mbit/s

95th percentile per-packet one-way delay: 87.836 ms

Loss rate: 1.44%

-- Flow 3:

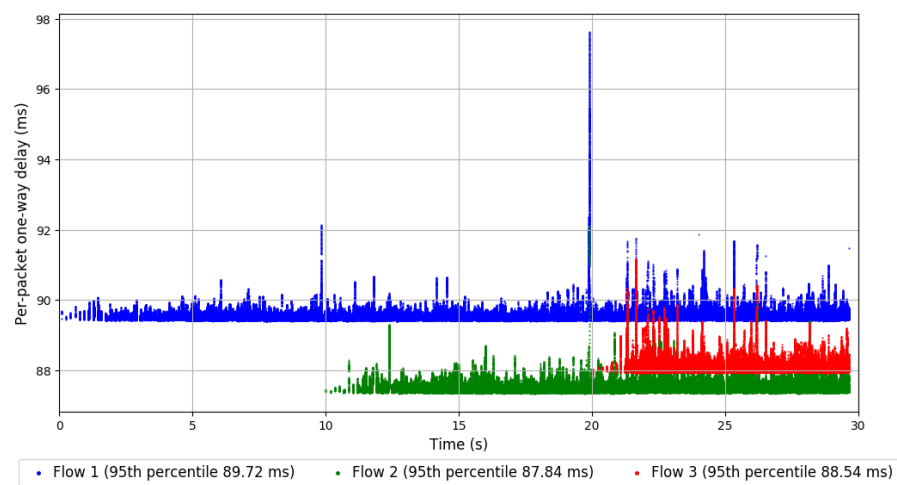
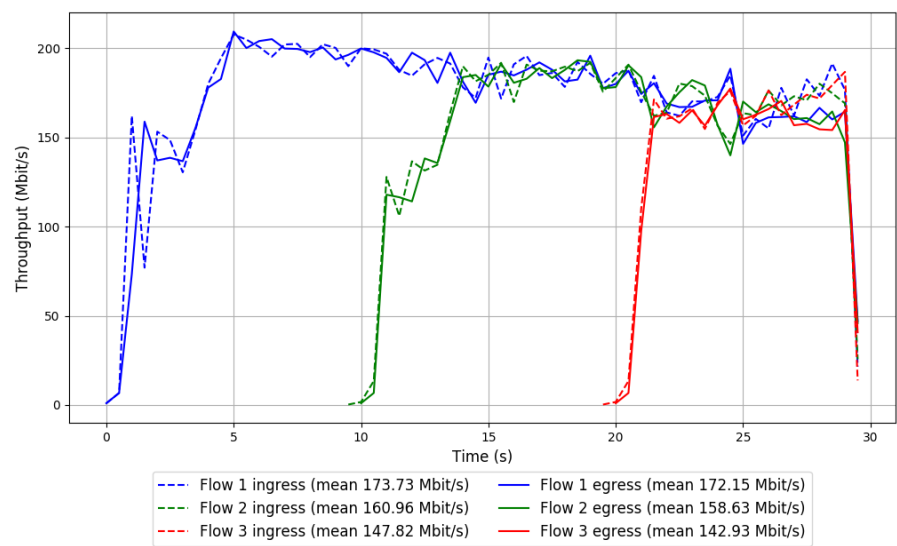
Average throughput: 142.93 Mbit/s

95th percentile per-packet one-way delay: 88.543 ms

Loss rate: 3.30%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-12 01:08:14

End at: 2017-12-12 01:08:44

Local clock offset: -3.269 ms

Remote clock offset: 1.923 ms

# Below is generated by plot.py at 2017-12-12 04:23:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 327.68 Mbit/s

95th percentile per-packet one-way delay: 90.319 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 172.06 Mbit/s

95th percentile per-packet one-way delay: 90.290 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 166.74 Mbit/s

95th percentile per-packet one-way delay: 90.441 ms

Loss rate: 2.02%

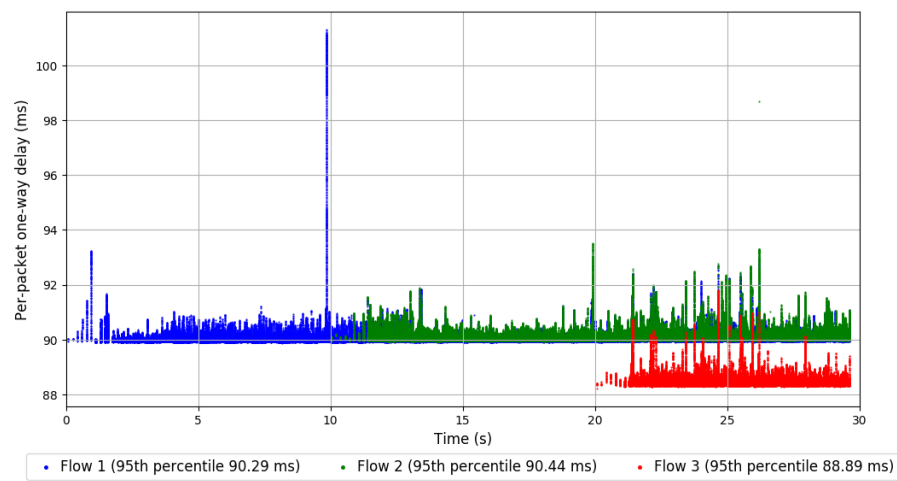
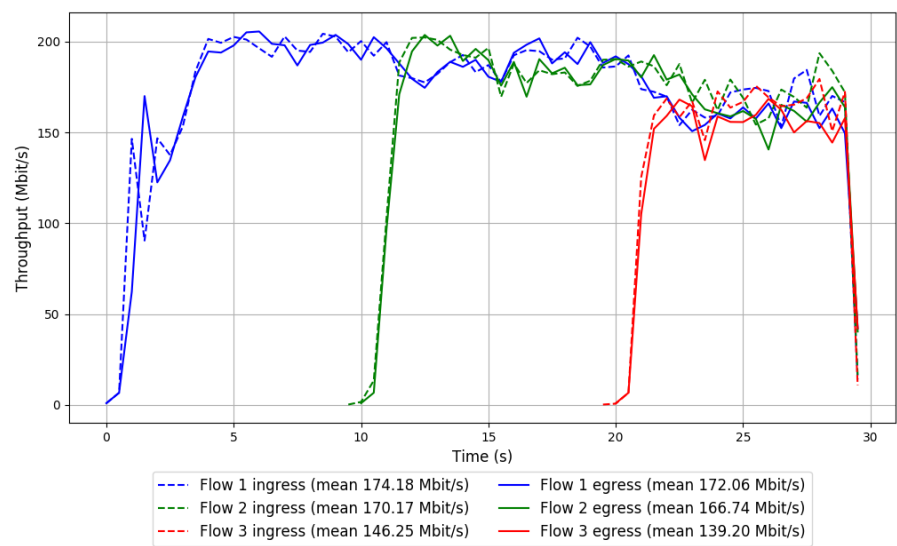
-- Flow 3:

Average throughput: 139.20 Mbit/s

95th percentile per-packet one-way delay: 88.890 ms

Loss rate: 4.81%

Run 6: Report of Indigo — Data Link

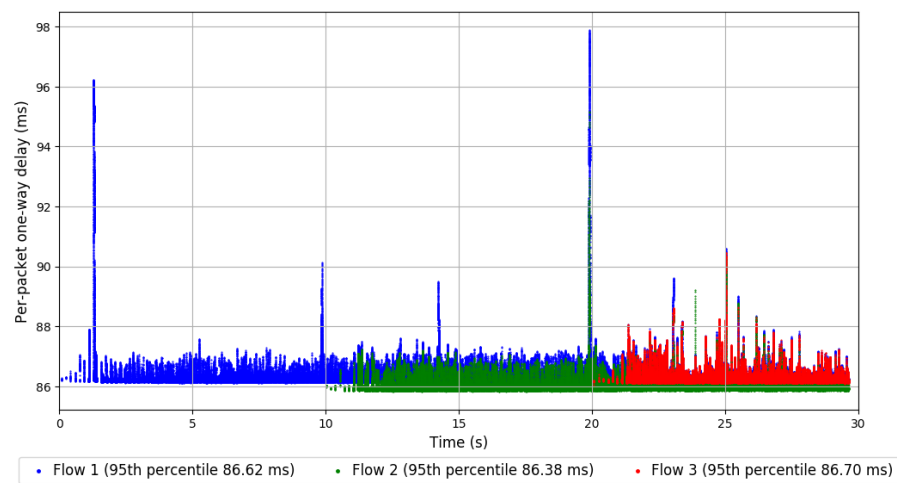
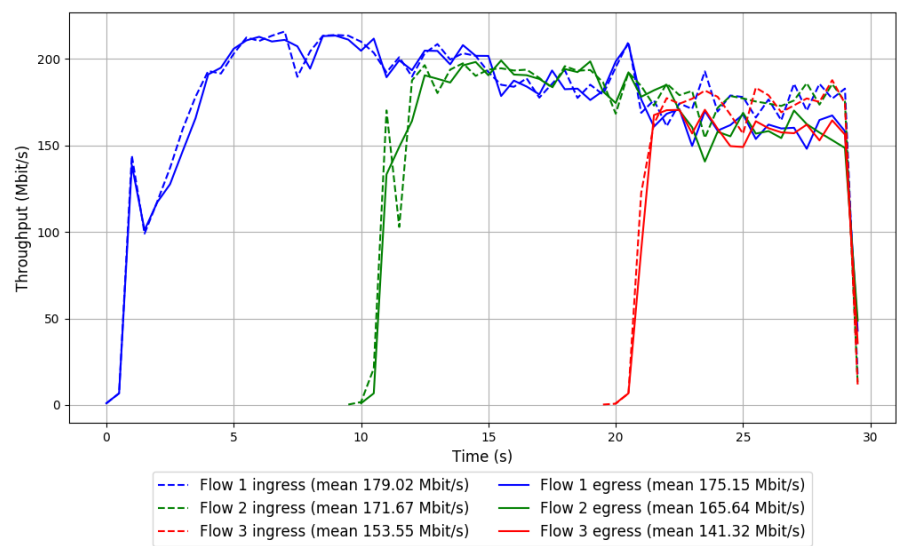


Run 7: Statistics of Indigo

Start at: 2017-12-12 01:28:30  
End at: 2017-12-12 01:29:00  
Local clock offset: -2.71 ms  
Remote clock offset: -2.525 ms

# Below is generated by plot.py at 2017-12-12 04:24:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 330.82 Mbit/s  
95th percentile per-packet one-way delay: 86.568 ms  
Loss rate: 3.46%  
-- Flow 1:  
Average throughput: 175.15 Mbit/s  
95th percentile per-packet one-way delay: 86.621 ms  
Loss rate: 2.16%  
-- Flow 2:  
Average throughput: 165.64 Mbit/s  
95th percentile per-packet one-way delay: 86.378 ms  
Loss rate: 3.52%  
-- Flow 3:  
Average throughput: 141.32 Mbit/s  
95th percentile per-packet one-way delay: 86.697 ms  
Loss rate: 7.99%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-12 01:48:47

End at: 2017-12-12 01:49:17

Local clock offset: -3.043 ms

Remote clock offset: 3.934 ms

# Below is generated by plot.py at 2017-12-12 04:24:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 330.61 Mbit/s

95th percentile per-packet one-way delay: 92.720 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 178.66 Mbit/s

95th percentile per-packet one-way delay: 91.565 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 162.98 Mbit/s

95th percentile per-packet one-way delay: 91.147 ms

Loss rate: 2.38%

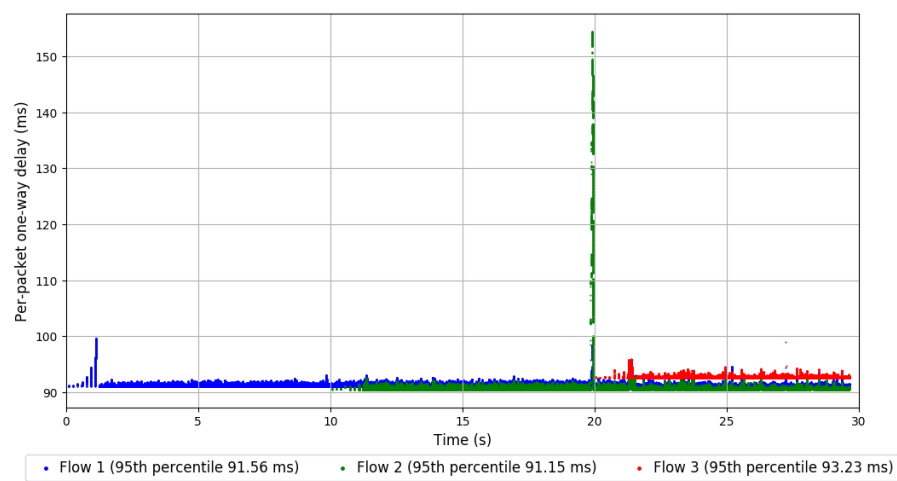
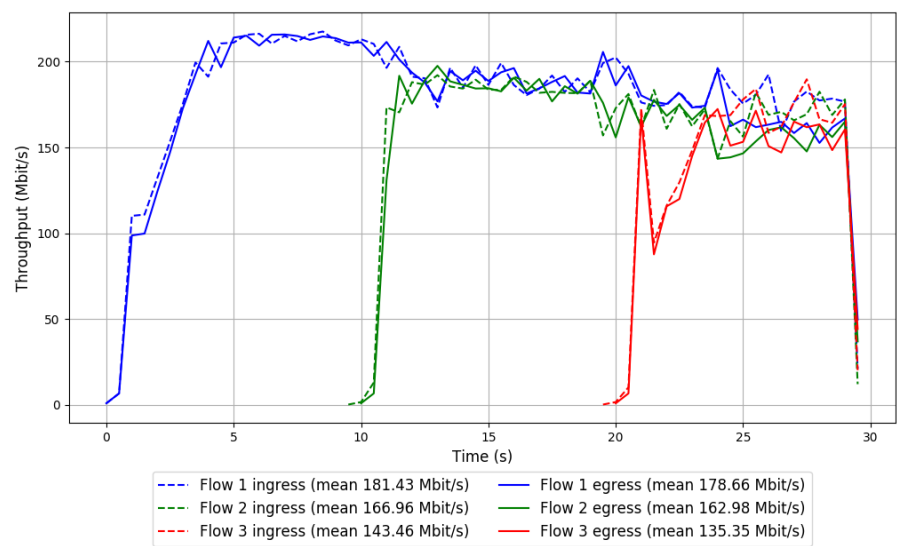
-- Flow 3:

Average throughput: 135.35 Mbit/s

95th percentile per-packet one-way delay: 93.233 ms

Loss rate: 5.68%

Run 8: Report of Indigo — Data Link



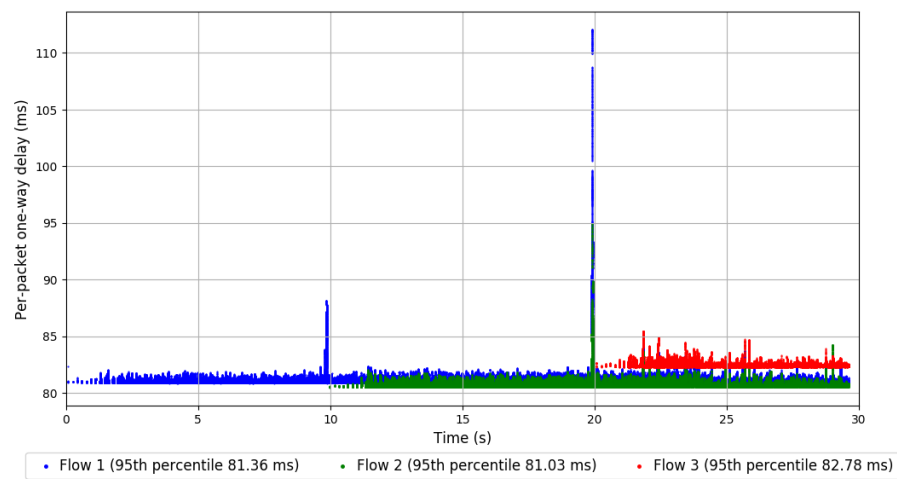
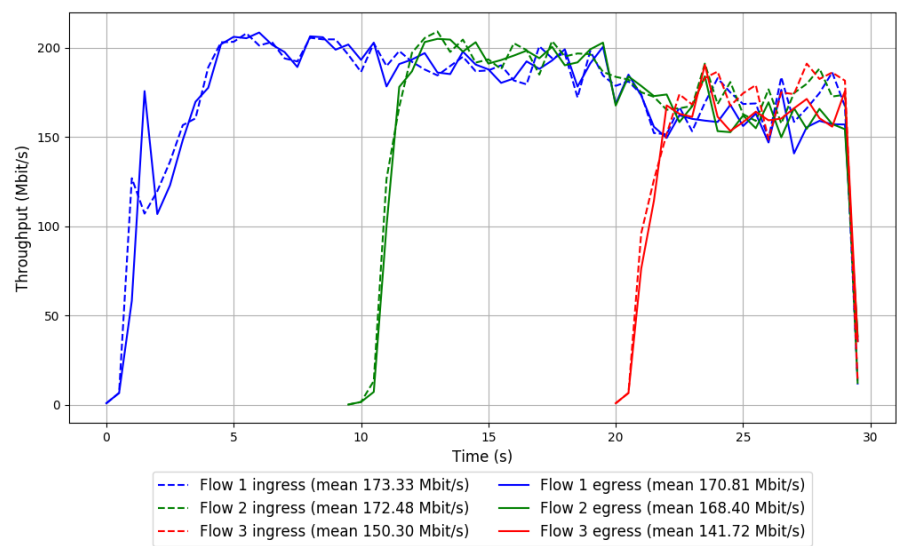
Run 9: Statistics of Indigo

Start at: 2017-12-12 02:08:54  
End at: 2017-12-12 02:09:24  
Local clock offset: -3.229 ms  
Remote clock offset: -7.413 ms

# Below is generated by plot.py at 2017-12-12 04:25:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.48 Mbit/s  
95th percentile per-packet one-way delay: 82.394 ms  
Loss rate: 2.38%  
-- Flow 1:  
Average throughput: 170.81 Mbit/s  
95th percentile per-packet one-way delay: 81.356 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 168.40 Mbit/s  
95th percentile per-packet one-way delay: 81.035 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 141.72 Mbit/s  
95th percentile per-packet one-way delay: 82.785 ms  
Loss rate: 5.71%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-12 02:29:02

End at: 2017-12-12 02:29:32

Local clock offset: -2.569 ms

Remote clock offset: 4.678 ms

# Below is generated by plot.py at 2017-12-12 04:26:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.86 Mbit/s

95th percentile per-packet one-way delay: 93.838 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 174.22 Mbit/s

95th percentile per-packet one-way delay: 93.549 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 158.44 Mbit/s

95th percentile per-packet one-way delay: 94.016 ms

Loss rate: 2.32%

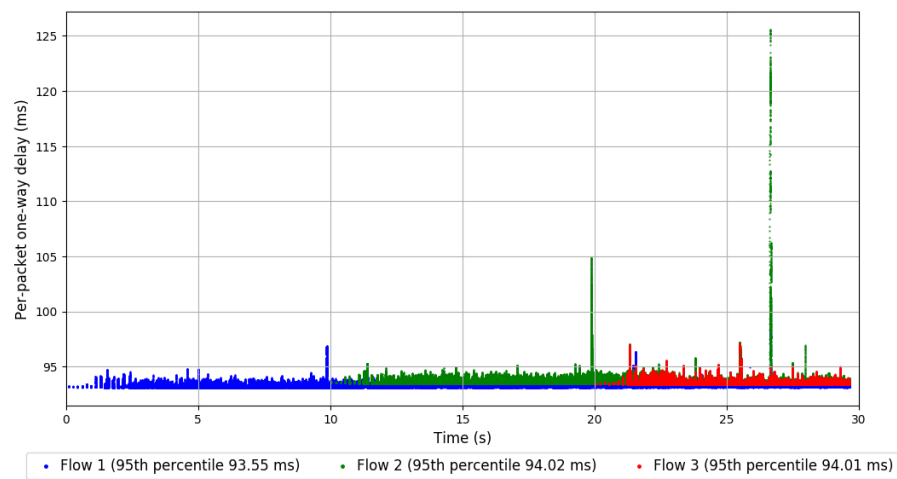
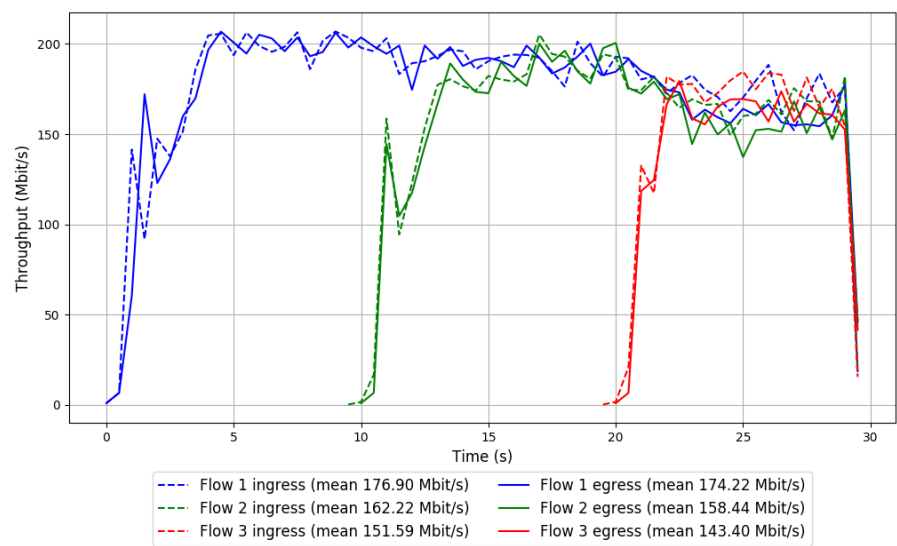
-- Flow 3:

Average throughput: 143.40 Mbit/s

95th percentile per-packet one-way delay: 94.013 ms

Loss rate: 5.40%

Run 10: Report of Indigo — Data Link

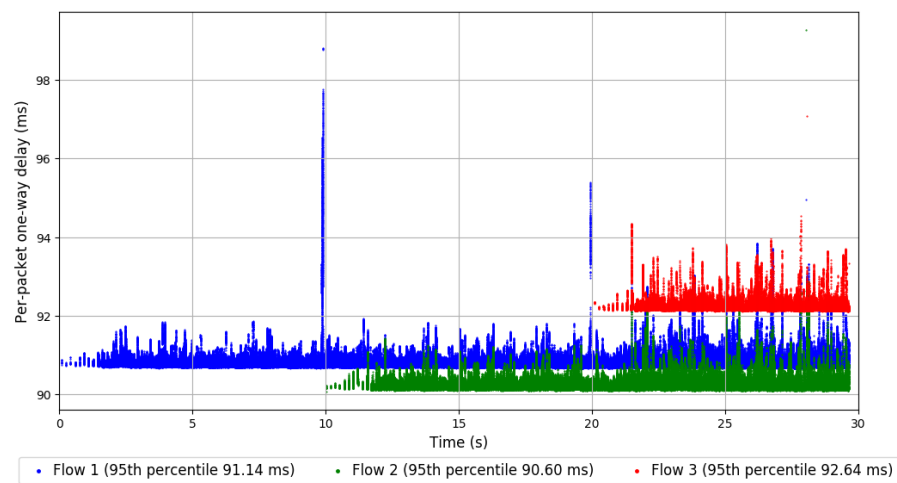
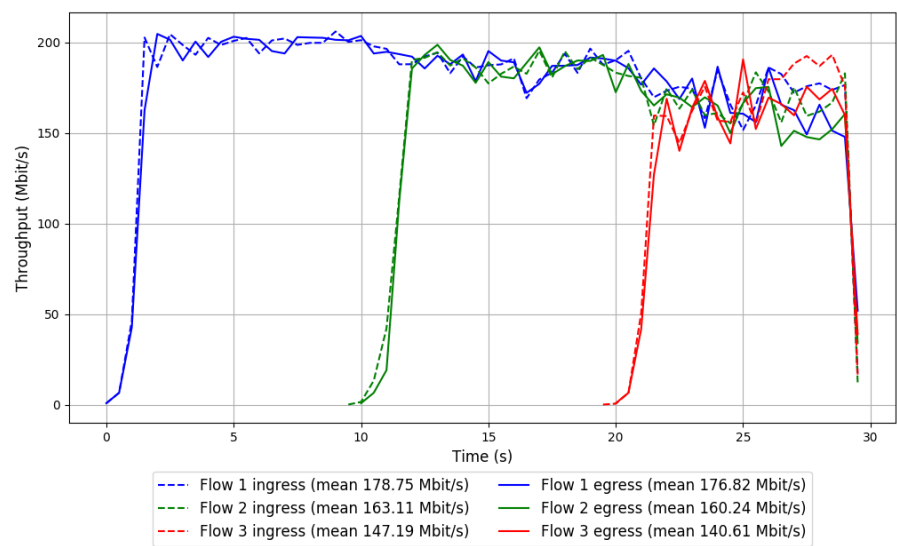


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 23:31:04
End at: 2017-12-11 23:31:34
Local clock offset: -1.572 ms
Remote clock offset: 6.435 ms

# Below is generated by plot.py at 2017-12-12 04:26:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.66 Mbit/s
95th percentile per-packet one-way delay: 92.248 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 176.82 Mbit/s
95th percentile per-packet one-way delay: 91.136 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 160.24 Mbit/s
95th percentile per-packet one-way delay: 90.601 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 140.61 Mbit/s
95th percentile per-packet one-way delay: 92.640 ms
Loss rate: 4.48%
```

Run 1: Report of Indigo-calib — Data Link

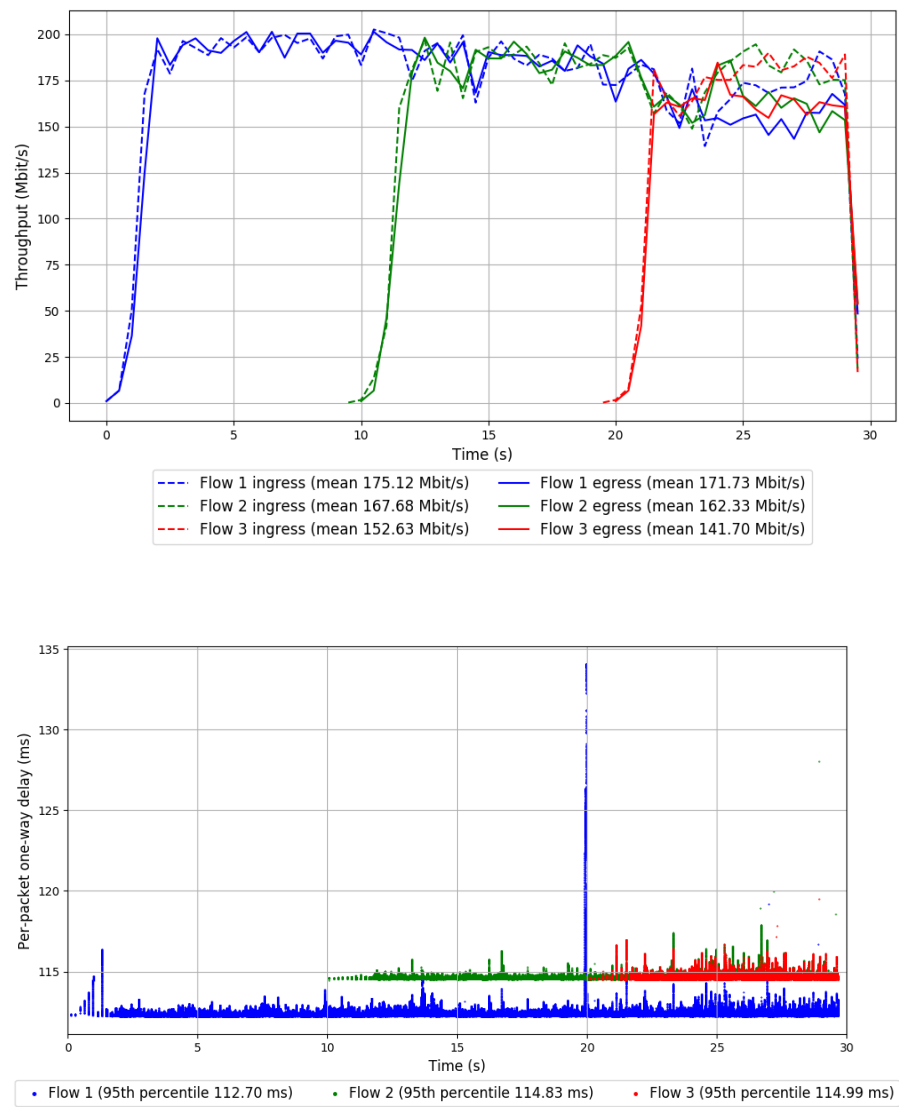


Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 23:51:13  
End at: 2017-12-11 23:51:43  
Local clock offset: -2.169 ms  
Remote clock offset: 28.985 ms

# Below is generated by plot.py at 2017-12-12 04:27:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.36 Mbit/s  
95th percentile per-packet one-way delay: 114.756 ms  
Loss rate: 3.12%  
-- Flow 1:  
Average throughput: 171.73 Mbit/s  
95th percentile per-packet one-way delay: 112.698 ms  
Loss rate: 1.93%  
-- Flow 2:  
Average throughput: 162.33 Mbit/s  
95th percentile per-packet one-way delay: 114.829 ms  
Loss rate: 3.19%  
-- Flow 3:  
Average throughput: 141.70 Mbit/s  
95th percentile per-packet one-way delay: 114.994 ms  
Loss rate: 7.16%

Run 2: Report of Indigo-calib — Data Link



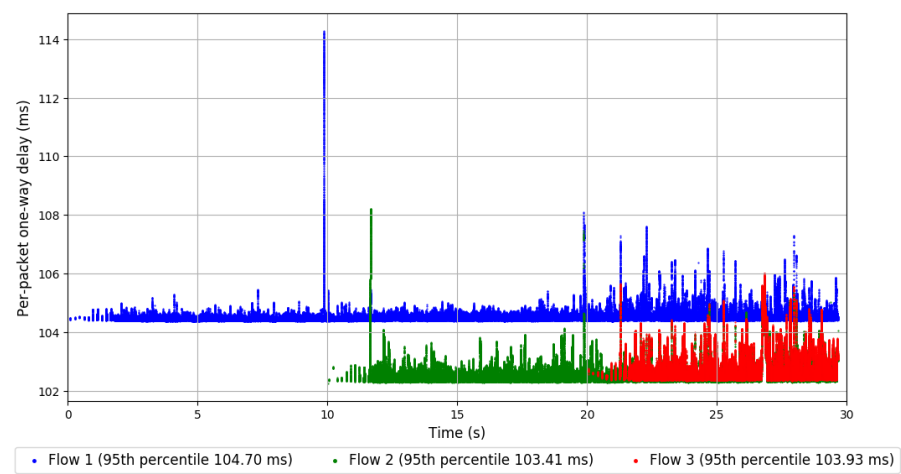
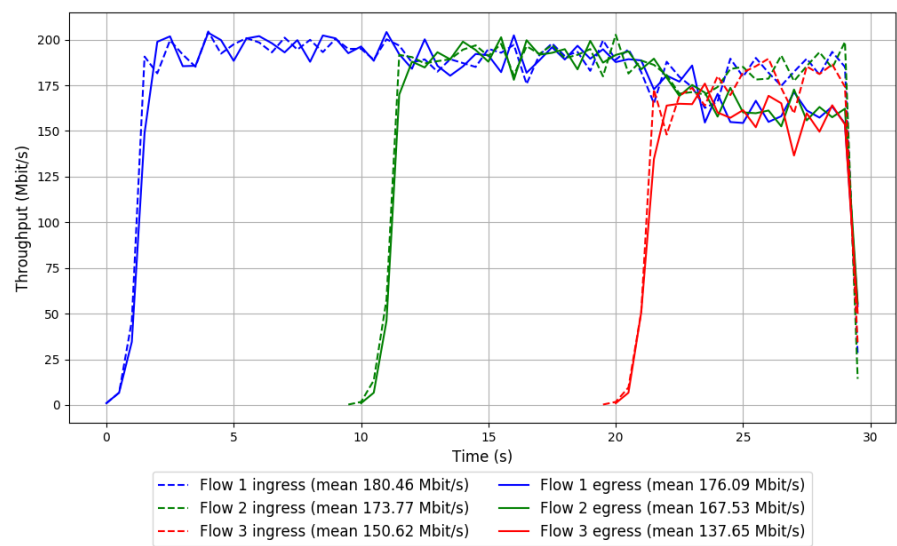
Run 3: Statistics of Indigo-calib

Start at: 2017-12-12 00:11:26  
End at: 2017-12-12 00:11:56  
Local clock offset: -2.209 ms  
Remote clock offset: 18.447 ms

# Below is generated by plot.py at 2017-12-12 04:27:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 331.97 Mbit/s  
95th percentile per-packet one-way delay: 104.620 ms  
Loss rate: 3.69%  
-- Flow 1:  
Average throughput: 176.09 Mbit/s  
95th percentile per-packet one-way delay: 104.702 ms  
Loss rate: 2.42%  
-- Flow 2:  
Average throughput: 167.53 Mbit/s  
95th percentile per-packet one-way delay: 103.407 ms  
Loss rate: 3.58%  
-- Flow 3:  
Average throughput: 137.65 Mbit/s  
95th percentile per-packet one-way delay: 103.930 ms  
Loss rate: 8.61%



Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-12 00:31:25

End at: 2017-12-12 00:31:55

Local clock offset: -2.783 ms

Remote clock offset: 5.097 ms

# Below is generated by plot.py at 2017-12-12 04:28:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.61 Mbit/s

95th percentile per-packet one-way delay: 90.669 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 175.24 Mbit/s

95th percentile per-packet one-way delay: 90.464 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 165.45 Mbit/s

95th percentile per-packet one-way delay: 90.833 ms

Loss rate: 1.69%

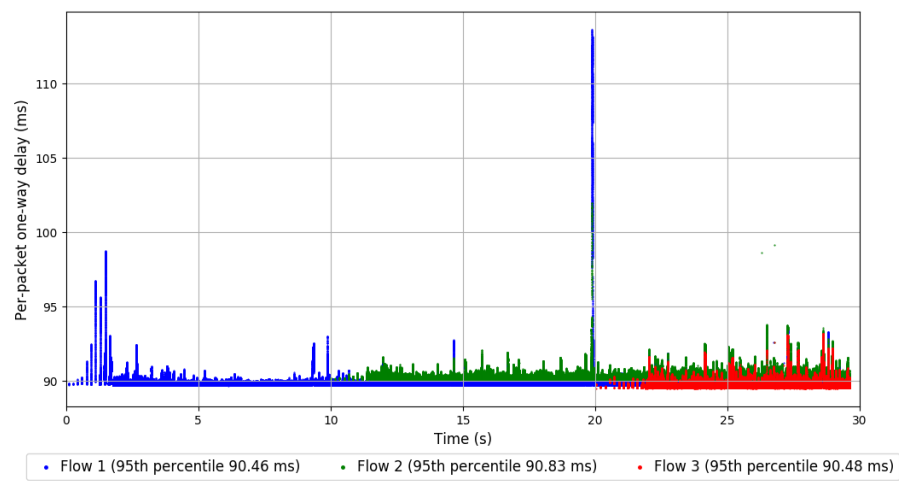
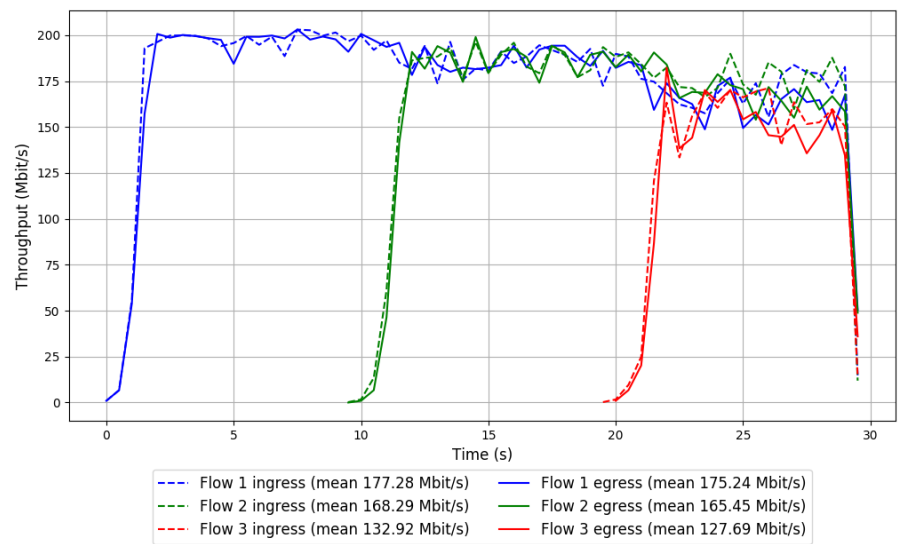
-- Flow 3:

Average throughput: 127.69 Mbit/s

95th percentile per-packet one-way delay: 90.485 ms

Loss rate: 3.93%

Run 4: Report of Indigo-calib — Data Link

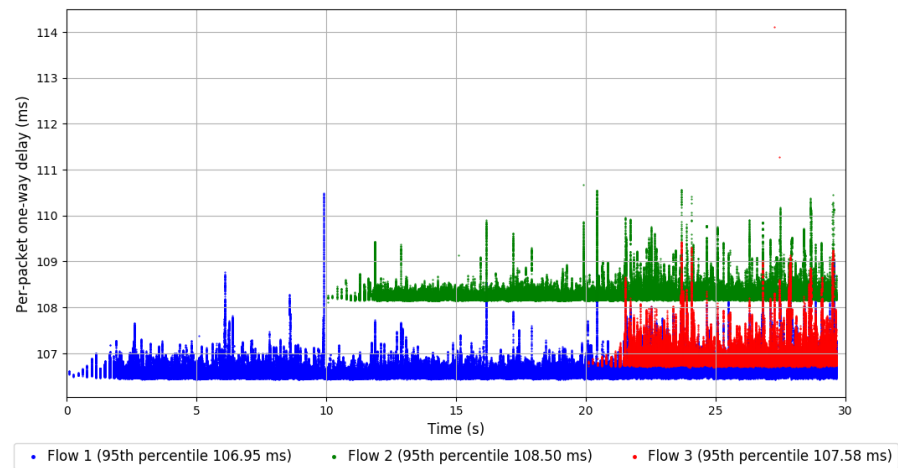
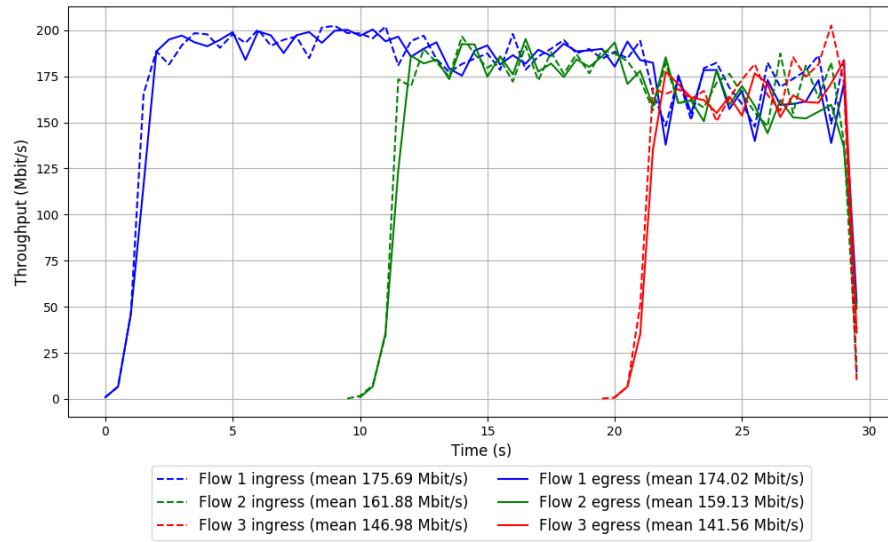


Run 5: Statistics of Indigo-calib

Start at: 2017-12-12 00:51:26  
End at: 2017-12-12 00:51:56  
Local clock offset: -3.486 ms  
Remote clock offset: 21.003 ms

# Below is generated by plot.py at 2017-12-12 04:28:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.19 Mbit/s  
95th percentile per-packet one-way delay: 108.336 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 174.02 Mbit/s  
95th percentile per-packet one-way delay: 106.947 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 159.13 Mbit/s  
95th percentile per-packet one-way delay: 108.504 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 141.56 Mbit/s  
95th percentile per-packet one-way delay: 107.578 ms  
Loss rate: 3.68%

## Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-12 01:11:28

End at: 2017-12-12 01:11:58

Local clock offset: -3.135 ms

Remote clock offset: 3.803 ms

# Below is generated by plot.py at 2017-12-12 04:28:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 328.04 Mbit/s

95th percentile per-packet one-way delay: 92.066 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 177.08 Mbit/s

95th percentile per-packet one-way delay: 90.722 ms

Loss rate: 2.17%

-- Flow 2:

Average throughput: 160.41 Mbit/s

95th percentile per-packet one-way delay: 90.544 ms

Loss rate: 3.36%

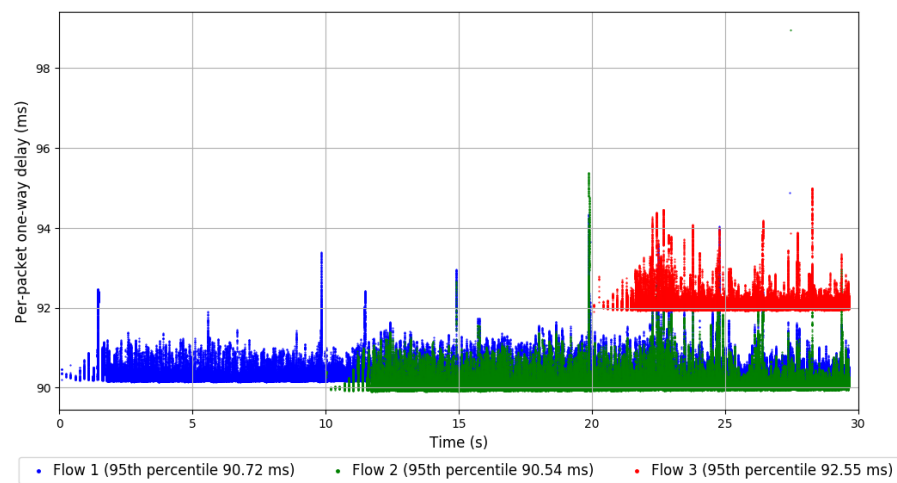
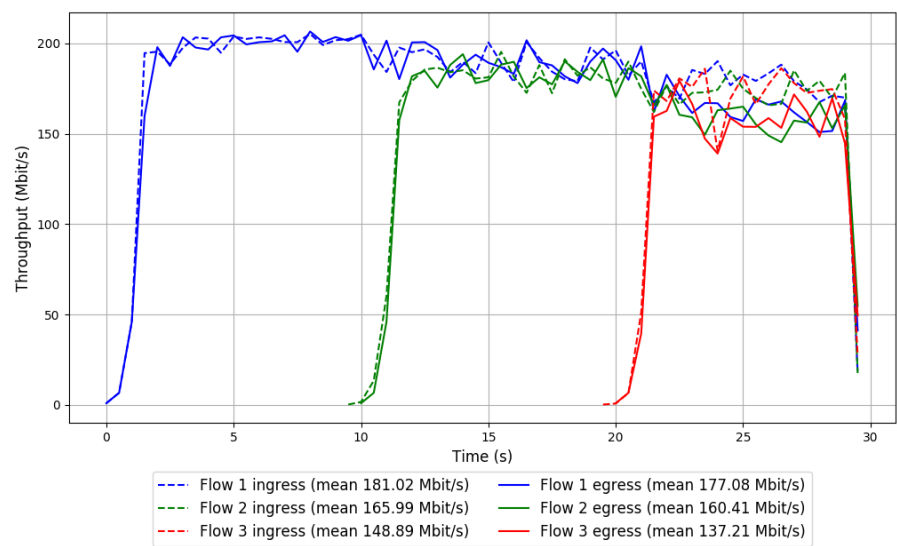
-- Flow 3:

Average throughput: 137.21 Mbit/s

95th percentile per-packet one-way delay: 92.550 ms

Loss rate: 7.84%

Run 6: Report of Indigo-calib — Data Link



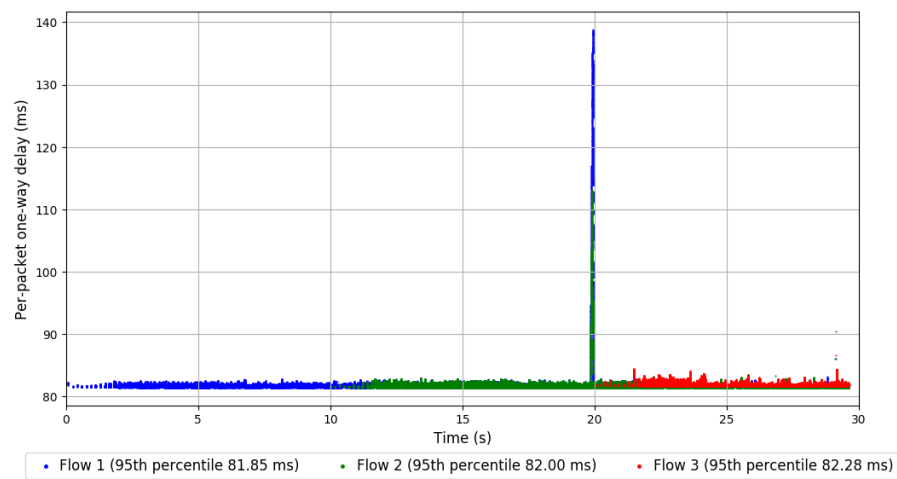
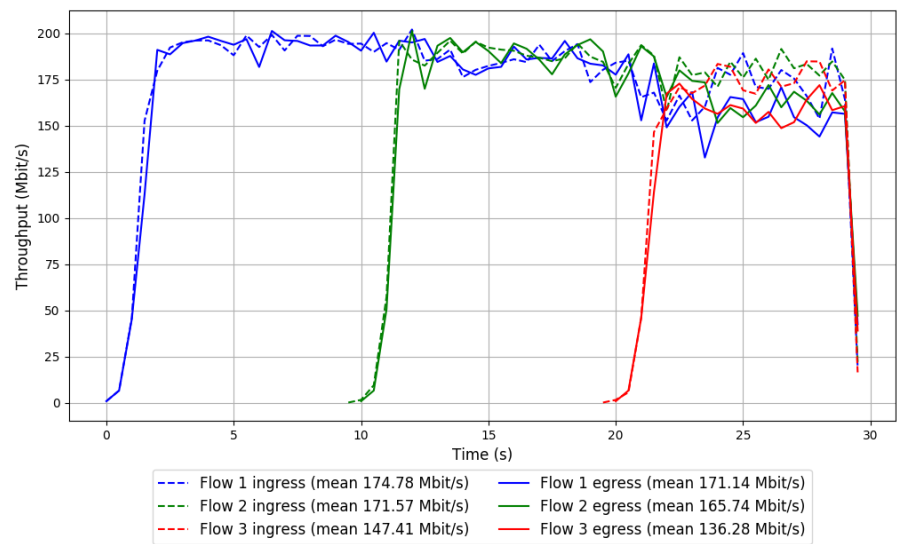
Run 7: Statistics of Indigo-calib

Start at: 2017-12-12 01:31:51  
End at: 2017-12-12 01:32:21  
Local clock offset: -2.672 ms  
Remote clock offset: -6.869 ms

# Below is generated by plot.py at 2017-12-12 04:29:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.40 Mbit/s  
95th percentile per-packet one-way delay: 82.002 ms  
Loss rate: 3.31%  
-- Flow 1:  
Average throughput: 171.14 Mbit/s  
95th percentile per-packet one-way delay: 81.851 ms  
Loss rate: 2.09%  
-- Flow 2:  
Average throughput: 165.74 Mbit/s  
95th percentile per-packet one-way delay: 82.000 ms  
Loss rate: 3.40%  
-- Flow 3:  
Average throughput: 136.28 Mbit/s  
95th percentile per-packet one-way delay: 82.283 ms  
Loss rate: 7.55%



Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-12 01:52:00

End at: 2017-12-12 01:52:30

Local clock offset: -3.196 ms

Remote clock offset: 8.228 ms

# Below is generated by plot.py at 2017-12-12 04:29:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 326.60 Mbit/s

95th percentile per-packet one-way delay: 97.717 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 174.99 Mbit/s

95th percentile per-packet one-way delay: 97.751 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 160.15 Mbit/s

95th percentile per-packet one-way delay: 97.582 ms

Loss rate: 3.05%

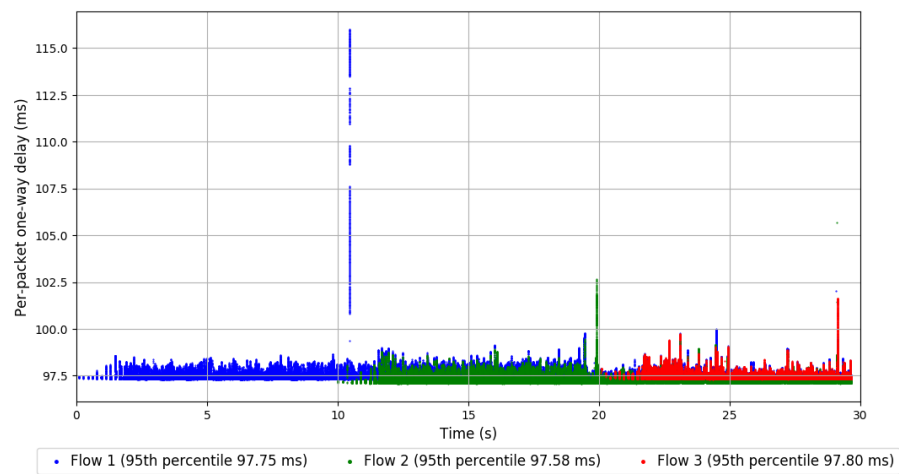
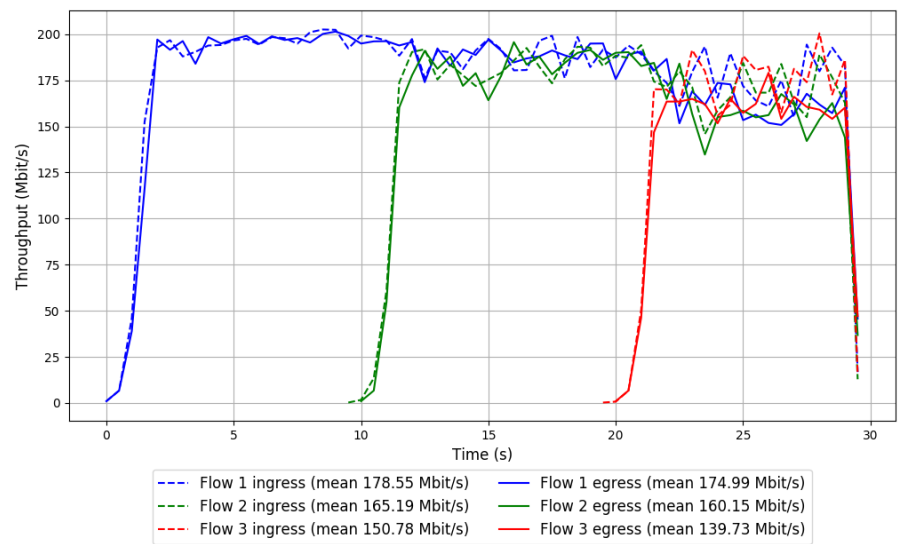
-- Flow 3:

Average throughput: 139.73 Mbit/s

95th percentile per-packet one-way delay: 97.802 ms

Loss rate: 7.35%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

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

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

Local clock offset: -3.104 ms

Remote clock offset: 2.64 ms

# Below is generated by plot.py at 2017-12-12 04:29:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.87 Mbit/s

95th percentile per-packet one-way delay: 92.686 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 172.51 Mbit/s

95th percentile per-packet one-way delay: 92.864 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 164.45 Mbit/s

95th percentile per-packet one-way delay: 91.337 ms

Loss rate: 2.72%

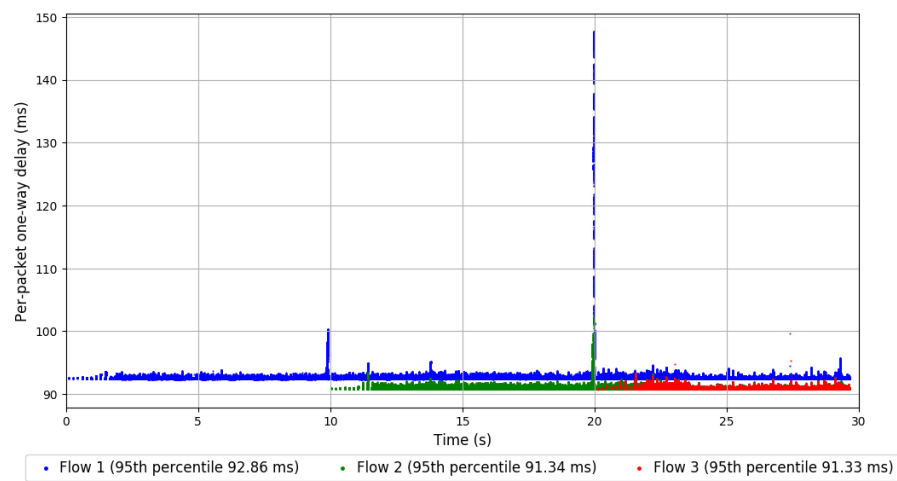
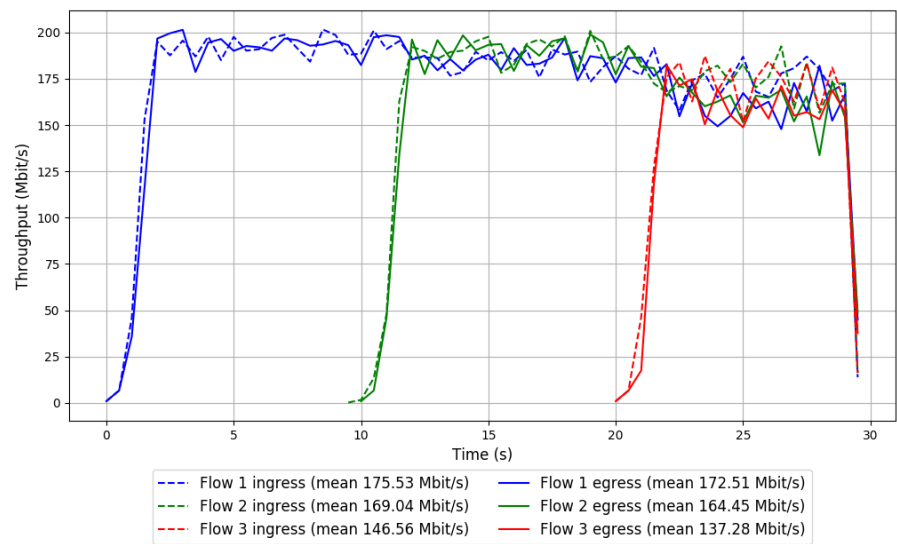
-- Flow 3:

Average throughput: 137.28 Mbit/s

95th percentile per-packet one-way delay: 91.325 ms

Loss rate: 6.33%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-12 02:32:17  
End at: 2017-12-12 02:32:47  
Local clock offset: -2.383 ms  
Remote clock offset: -10.367 ms

# Below is generated by plot.py at 2017-12-12 04:30:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 326.51 Mbit/s  
95th percentile per-packet one-way delay: 80.118 ms  
Loss rate: 3.03%  
-- Flow 1:  
Average throughput: 173.99 Mbit/s  
95th percentile per-packet one-way delay: 80.239 ms  
Loss rate: 1.84%  
-- Flow 2:  
Average throughput: 162.72 Mbit/s  
95th percentile per-packet one-way delay: 78.641 ms  
Loss rate: 3.22%  
-- Flow 3:  
Average throughput: 136.73 Mbit/s  
95th percentile per-packet one-way delay: 78.967 ms  
Loss rate: 6.98%

Run 10: Report of Indigo-calib — Data Link

