

Pantheon Report

Generated at 2017-12-01 02:16:42 (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).

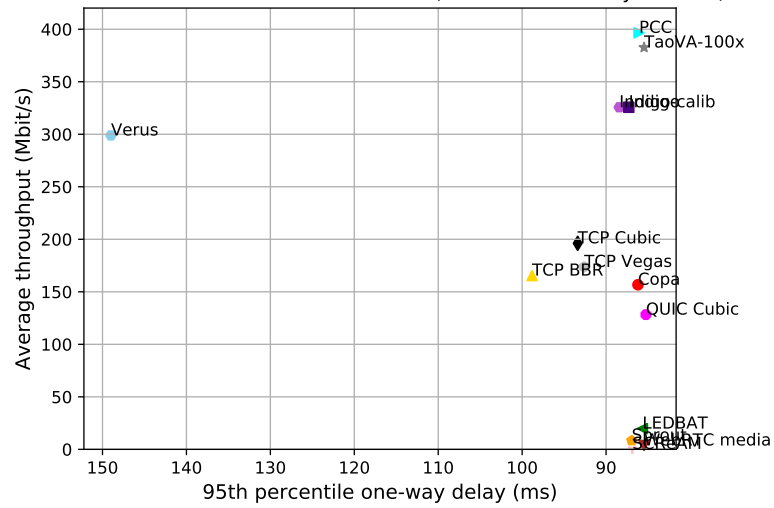
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

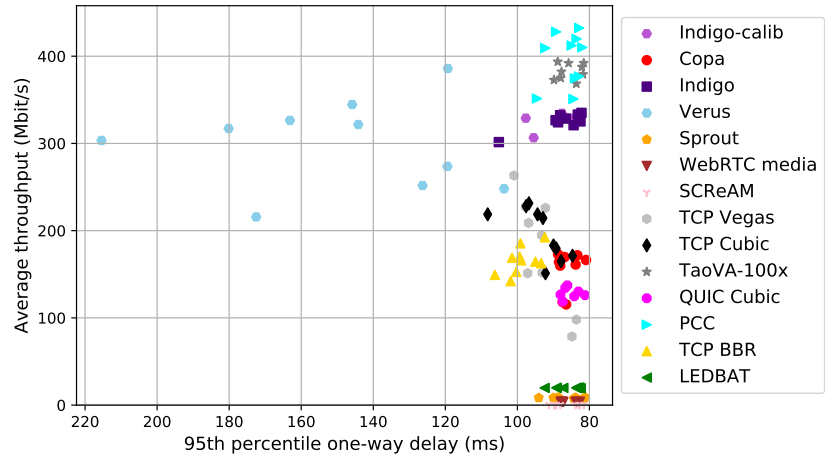
Git summary:

```
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



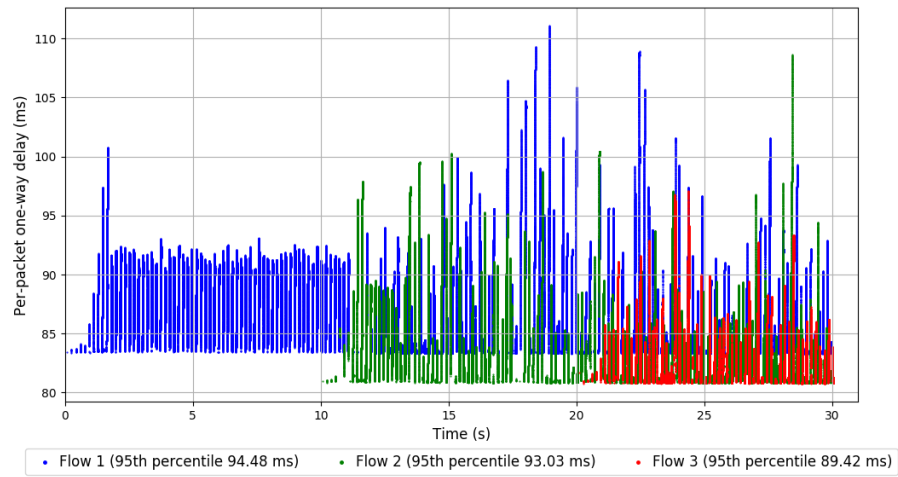
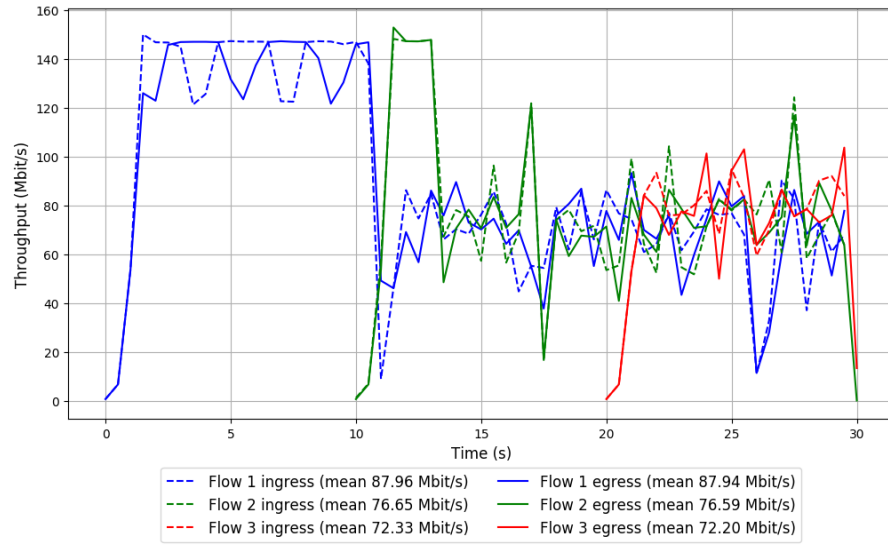
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	86.67	81.06	75.33	98.14	98.75	99.51	0.04	0.06	0.11
TCP Cubic	10	102.72	101.94	77.14	92.19	93.63	90.28	0.01	0.01	0.01
LEDBAT	10	12.74	8.49	4.16	84.57	85.65	85.82	0.00	0.00	0.00
PCC	10	320.27	27.70	175.67	84.14	84.84	86.72	10.16	11.83	20.36
QUIC Cubic	7	69.09	61.19	53.99	84.17	85.23	83.78	0.02	0.02	0.07
SCReAM	10	0.22	0.22	0.22	84.98	86.98	85.75	0.00	0.00	0.00
WebRTC media	10	2.06	1.26	0.39	84.80	84.58	84.34	0.00	0.00	0.00
Sprout	10	4.41	4.15	3.59	86.75	86.47	85.04	0.00	0.00	0.00
TaoVA-100x	9	220.20	198.43	123.80	85.20	85.05	85.06	1.51	2.65	6.69
TCP Vegas	10	93.76	83.31	74.44	91.83	92.64	90.37	0.00	0.01	0.01
Verus	10	177.63	161.29	44.95	139.34	144.32	122.11	5.93	7.16	6.85
Copa	10	82.84	79.73	80.01	86.28	84.88	84.53	0.00	0.00	0.00
Indigo	10	171.29	164.87	138.82	86.58	85.86	85.80	0.74	1.15	2.73
Indigo-calib	7	174.64	161.92	138.91	85.99	88.43	89.84	1.40	2.24	4.97

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 21:24:47
End at: 2017-11-30 21:25:17
Local clock offset: 0.368 ms
Remote clock offset: -3.177 ms

Below is generated by plot.py at 2017-12-01 01:24:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 93.397 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 94.484 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 93.025 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 89.418 ms
Loss rate: 0.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 21:44:39

End at: 2017-11-30 21:45:09

Local clock offset: 0.243 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2017-12-01 01:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.99 Mbit/s

95th percentile per-packet one-way delay: 98.962 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 97.835 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 99.363 ms

Loss rate: 0.09%

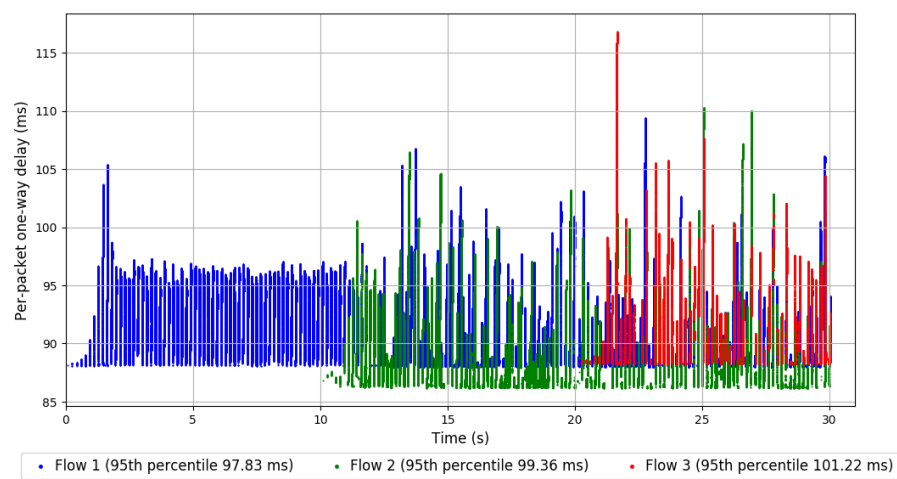
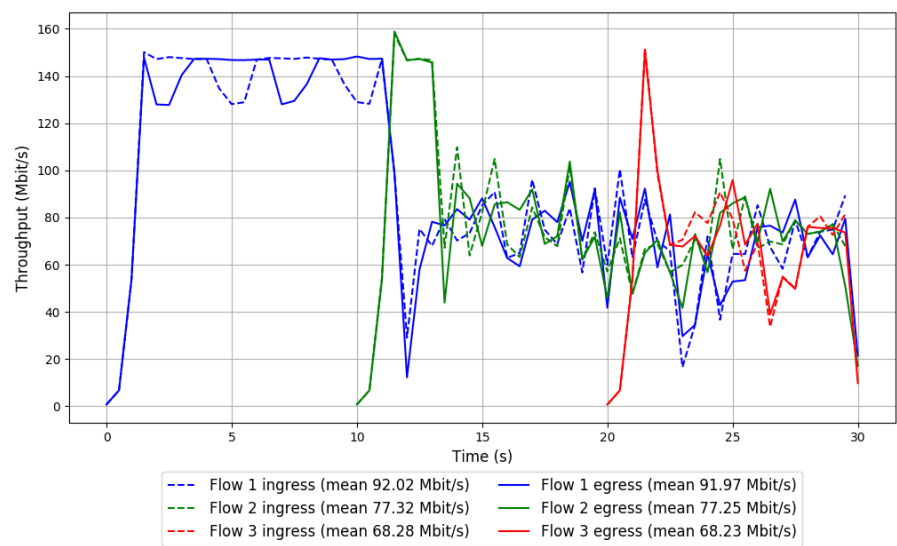
-- Flow 3:

Average throughput: 68.23 Mbit/s

95th percentile per-packet one-way delay: 101.224 ms

Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 22:04:41

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

Local clock offset: 0.106 ms

Remote clock offset: 4.067 ms

Below is generated by plot.py at 2017-12-01 01:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.74 Mbit/s

95th percentile per-packet one-way delay: 100.286 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 100.269 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 99.034 ms

Loss rate: 0.02%

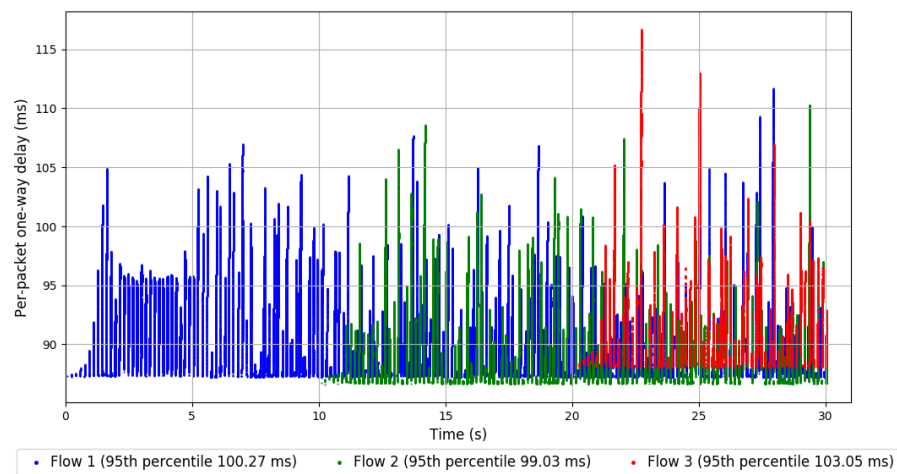
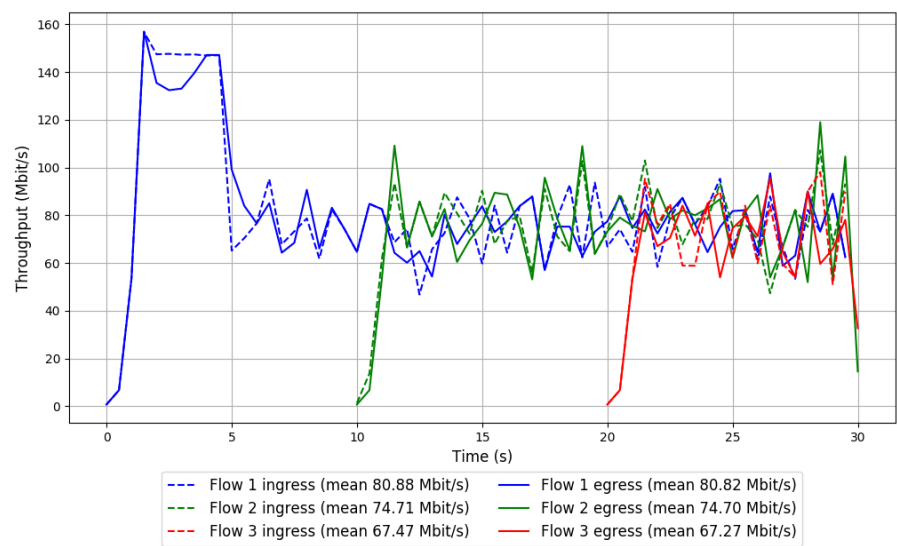
-- Flow 3:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 103.050 ms

Loss rate: 0.26%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 22:24:51

End at: 2017-11-30 22:25:21

Local clock offset: -0.061 ms

Remote clock offset: 2.058 ms

Below is generated by plot.py at 2017-12-01 01:24:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.30 Mbit/s

95th percentile per-packet one-way delay: 99.382 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 98.632 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 75.41 Mbit/s

95th percentile per-packet one-way delay: 100.126 ms

Loss rate: 0.03%

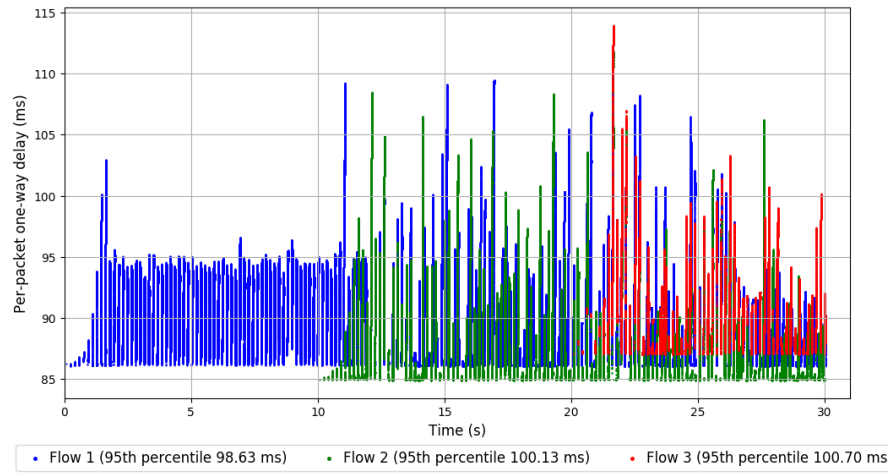
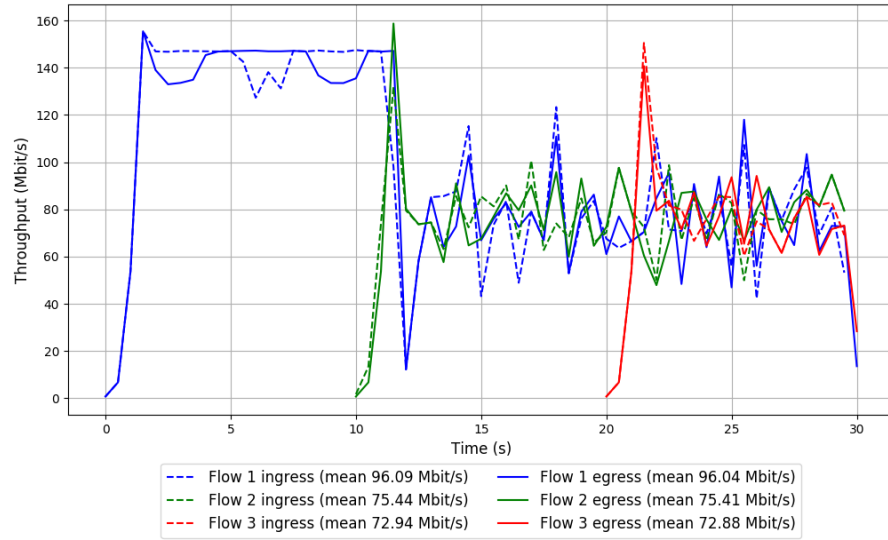
-- Flow 3:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 100.703 ms

Loss rate: 0.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 22:44:58

End at: 2017-11-30 22:45:28

Local clock offset: -0.091 ms

Remote clock offset: 1.755 ms

Below is generated by plot.py at 2017-12-01 01:25:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.37 Mbit/s

95th percentile per-packet one-way delay: 99.163 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 92.75 Mbit/s

95th percentile per-packet one-way delay: 100.641 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 103.33 Mbit/s

95th percentile per-packet one-way delay: 96.875 ms

Loss rate: 0.11%

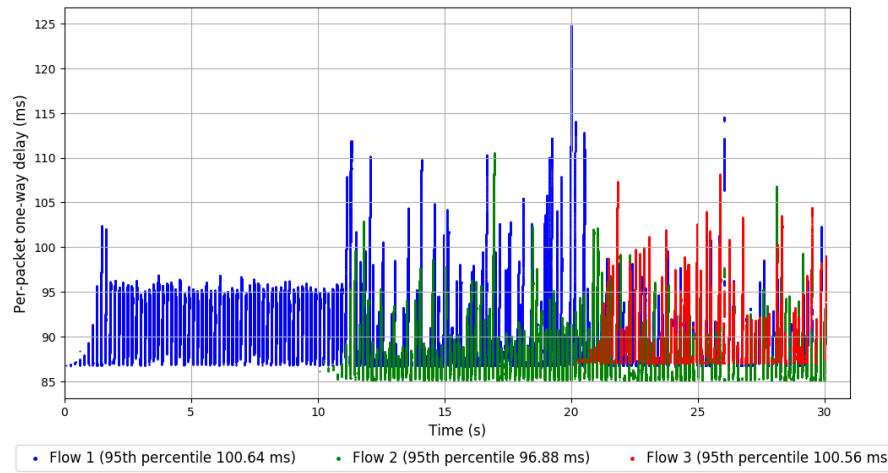
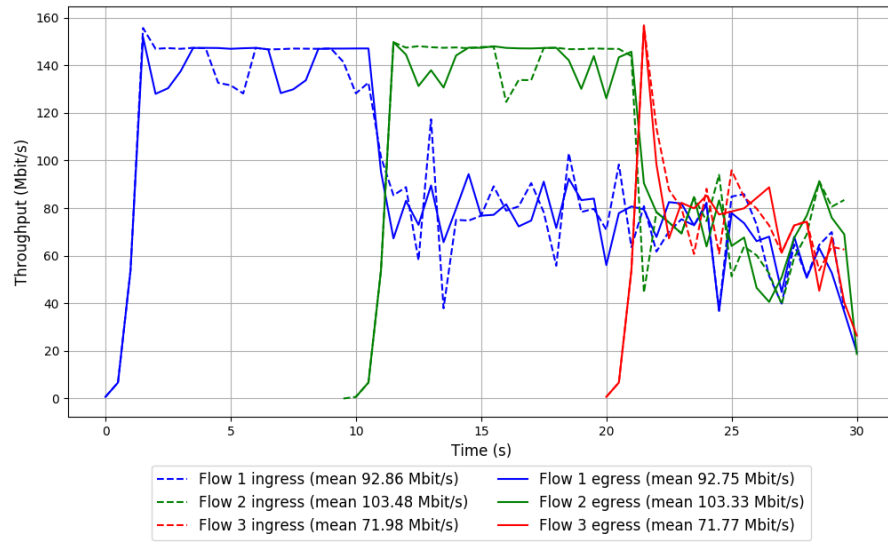
-- Flow 3:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 100.560 ms

Loss rate: 0.18%

Run 5: Report of TCP BBR — Data Link

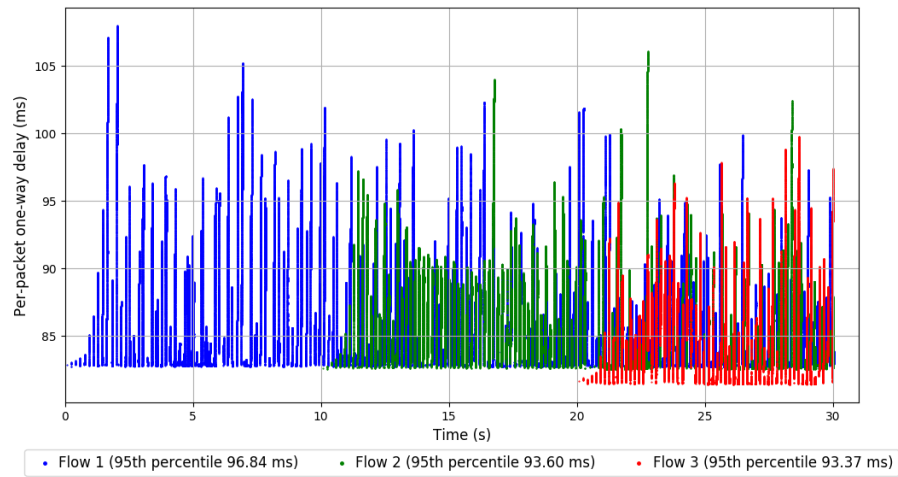
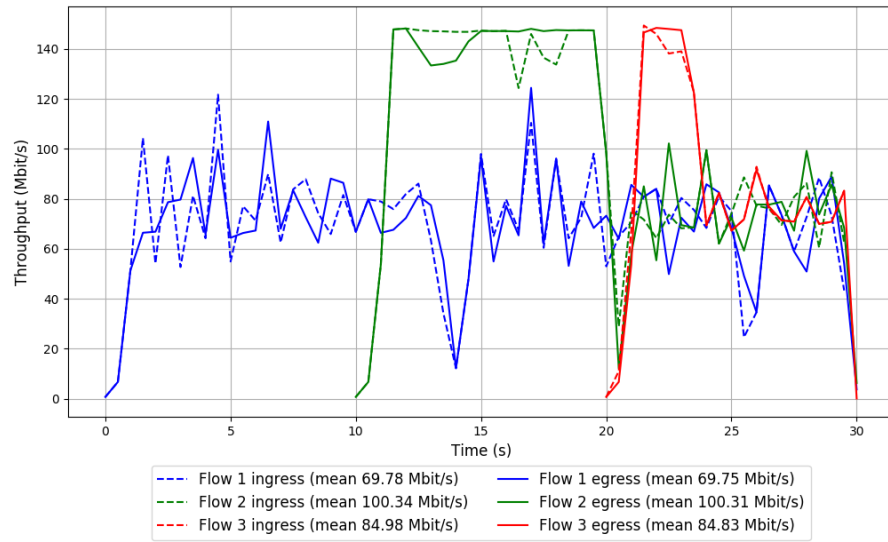


Run 6: Statistics of TCP BBR

Start at: 2017-11-30 23:05:15
End at: 2017-11-30 23:05:45
Local clock offset: -0.21 ms
Remote clock offset: -1.026 ms

Below is generated by plot.py at 2017-12-01 01:25:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.46 Mbit/s
95th percentile per-packet one-way delay: 94.982 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 69.75 Mbit/s
95th percentile per-packet one-way delay: 96.836 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 100.31 Mbit/s
95th percentile per-packet one-way delay: 93.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.83 Mbit/s
95th percentile per-packet one-way delay: 93.373 ms
Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link

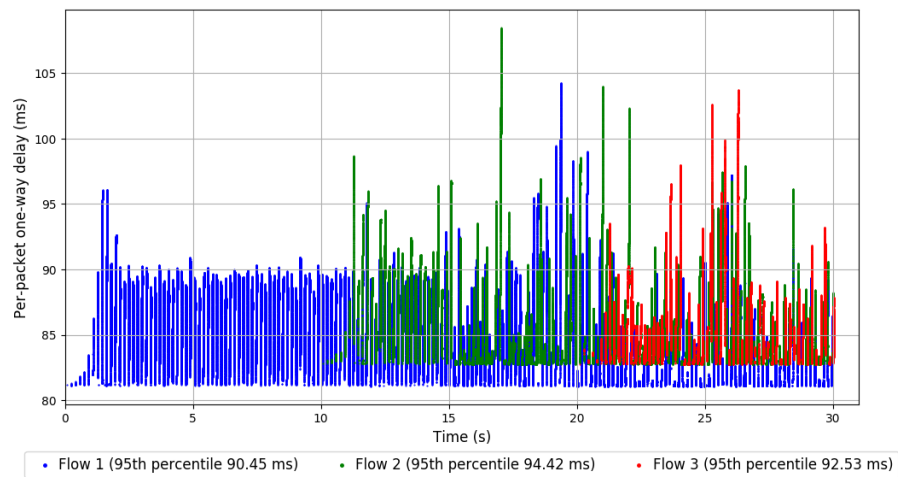
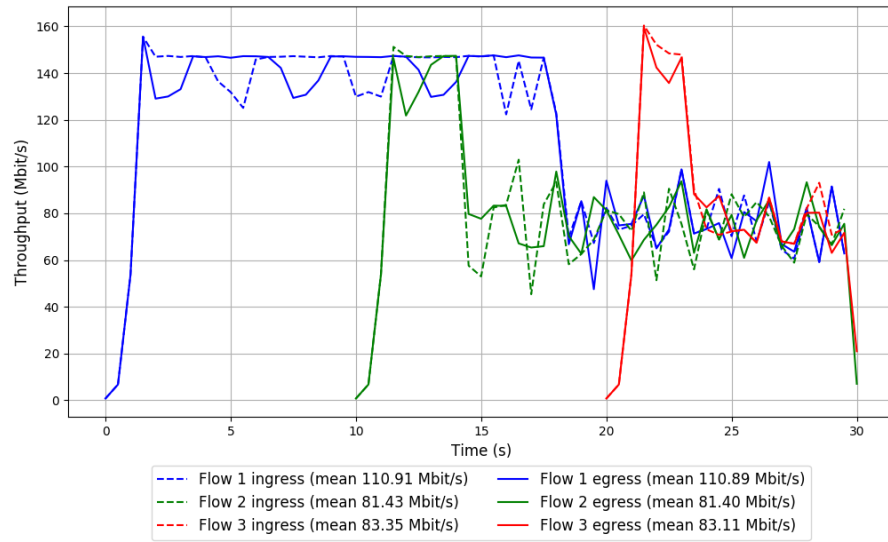


Run 7: Statistics of TCP BBR

Start at: 2017-11-30 23:25:25
End at: 2017-11-30 23:25:55
Local clock offset: -0.225 ms
Remote clock offset: -0.796 ms

Below is generated by plot.py at 2017-12-01 01:25:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 192.35 Mbit/s
95th percentile per-packet one-way delay: 92.379 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 110.89 Mbit/s
95th percentile per-packet one-way delay: 90.446 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 81.40 Mbit/s
95th percentile per-packet one-way delay: 94.415 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 92.525 ms
Loss rate: 0.25%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 23:45:25

End at: 2017-11-30 23:45:55

Local clock offset: -0.206 ms

Remote clock offset: 4.615 ms

Below is generated by plot.py at 2017-12-01 01:25:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.93 Mbit/s

95th percentile per-packet one-way delay: 101.485 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 99.818 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 79.23 Mbit/s

95th percentile per-packet one-way delay: 102.857 ms

Loss rate: 0.12%

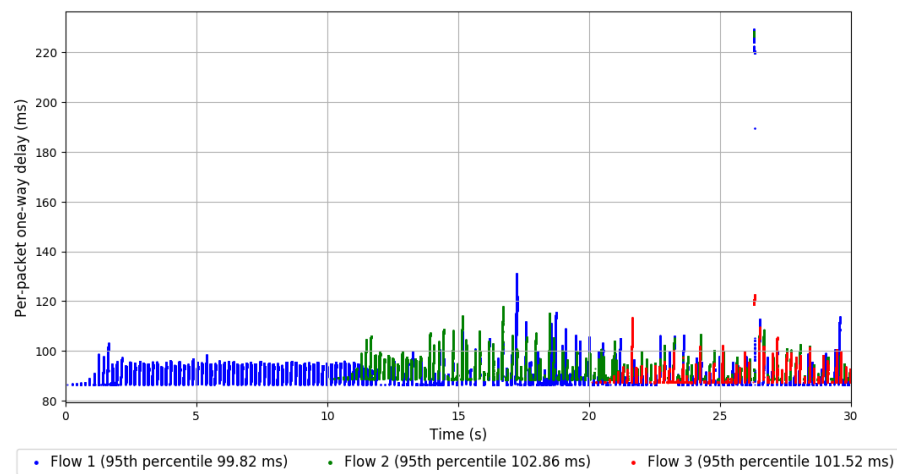
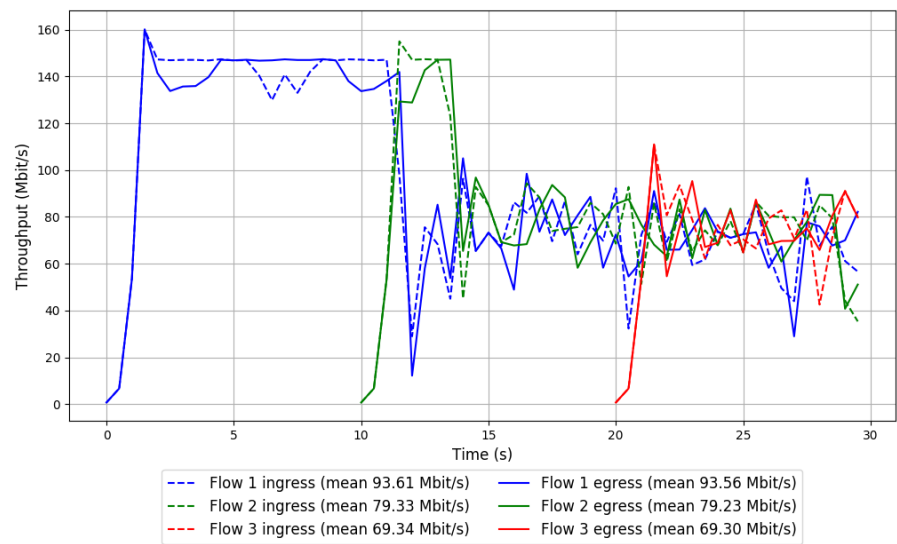
-- Flow 3:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 101.515 ms

Loss rate: 0.05%

Run 8: Report of TCP BBR — Data Link

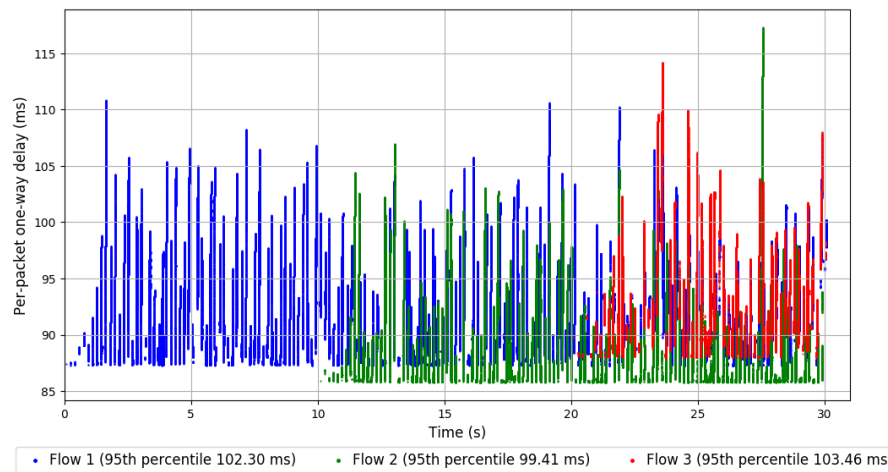
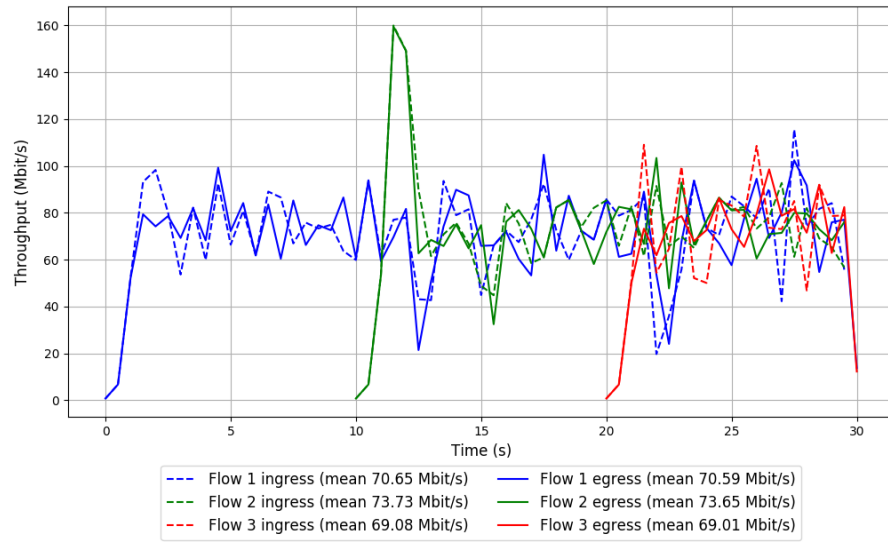


Run 9: Statistics of TCP BBR

Start at: 2017-12-01 00:05:31
End at: 2017-12-01 00:06:01
Local clock offset: -0.209 ms
Remote clock offset: 3.802 ms

Below is generated by plot.py at 2017-12-01 01:26:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.17 Mbit/s
95th percentile per-packet one-way delay: 101.871 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 70.59 Mbit/s
95th percentile per-packet one-way delay: 102.296 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 99.406 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 103.458 ms
Loss rate: 0.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-01 00:25:38

End at: 2017-12-01 00:26:08

Local clock offset: -0.189 ms

Remote clock offset: 4.194 ms

Below is generated by plot.py at 2017-12-01 01:26:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.31 Mbit/s

95th percentile per-packet one-way delay: 106.242 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 100.102 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 68.75 Mbit/s

95th percentile per-packet one-way delay: 108.811 ms

Loss rate: 0.09%

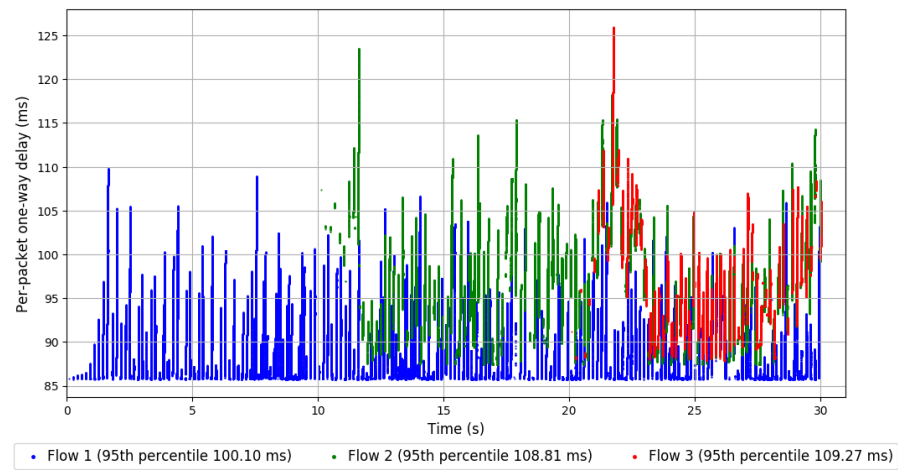
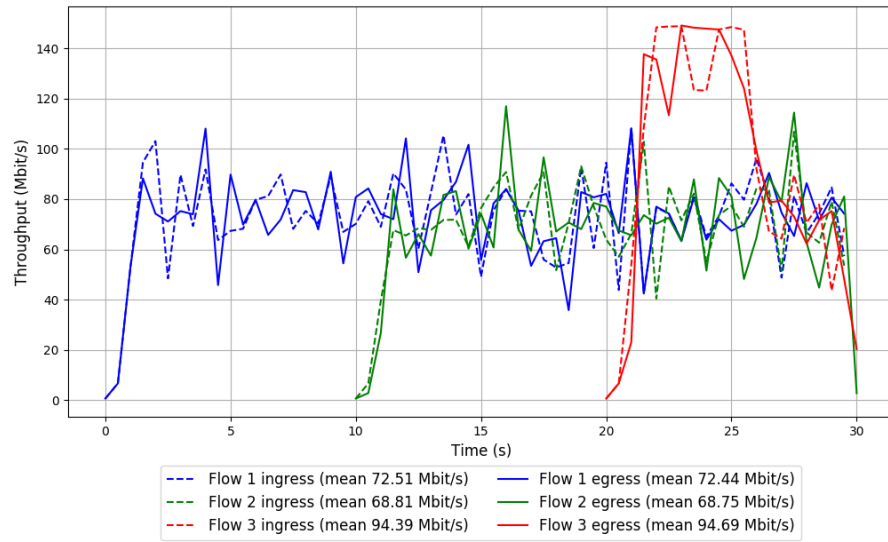
-- Flow 3:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 109.270 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

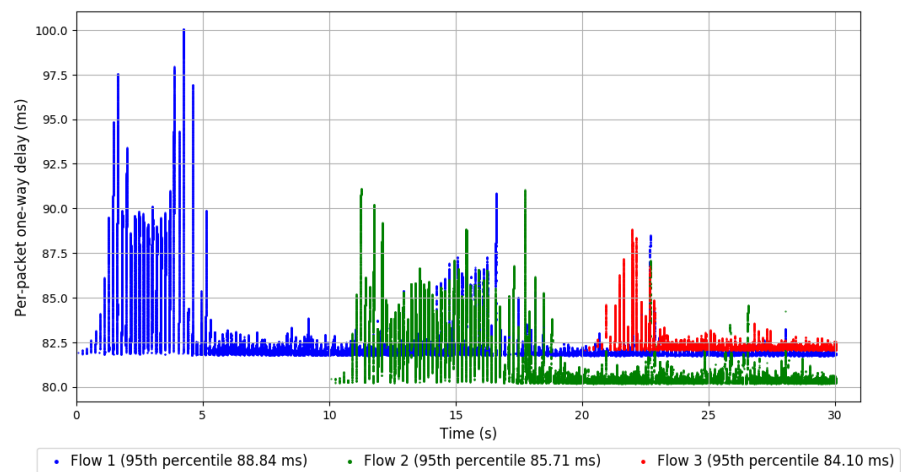
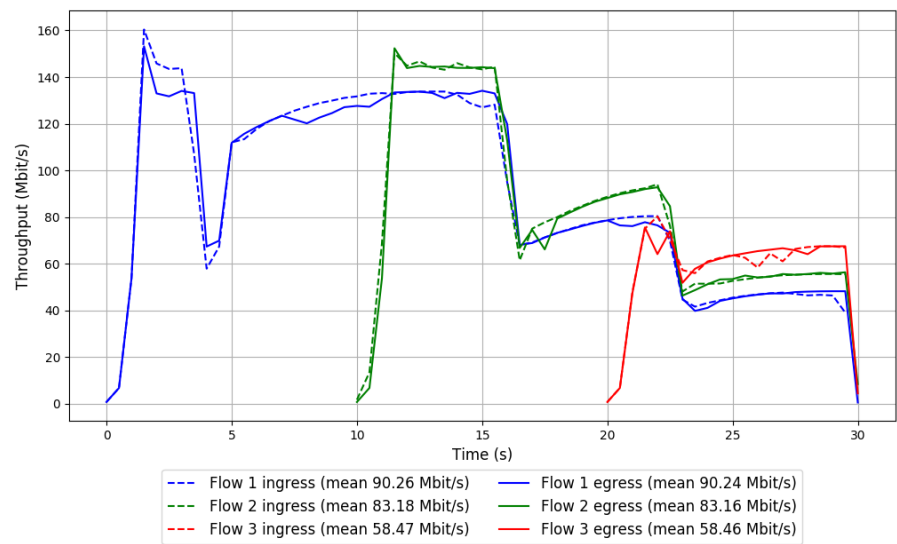


Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 21:18:52
End at: 2017-11-30 21:19:22
Local clock offset: 0.394 ms
Remote clock offset: -4.101 ms

Below is generated by plot.py at 2017-12-01 01:27:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.96 Mbit/s
95th percentile per-packet one-way delay: 87.853 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 88.845 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 83.16 Mbit/s
95th percentile per-packet one-way delay: 85.710 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 58.46 Mbit/s
95th percentile per-packet one-way delay: 84.097 ms
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 21:38:50

End at: 2017-11-30 21:39:20

Local clock offset: 0.269 ms

Remote clock offset: 2.464 ms

Below is generated by plot.py at 2017-12-01 01:27:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.20 Mbit/s

95th percentile per-packet one-way delay: 92.196 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 92.780 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 92.466 ms

Loss rate: 0.00%

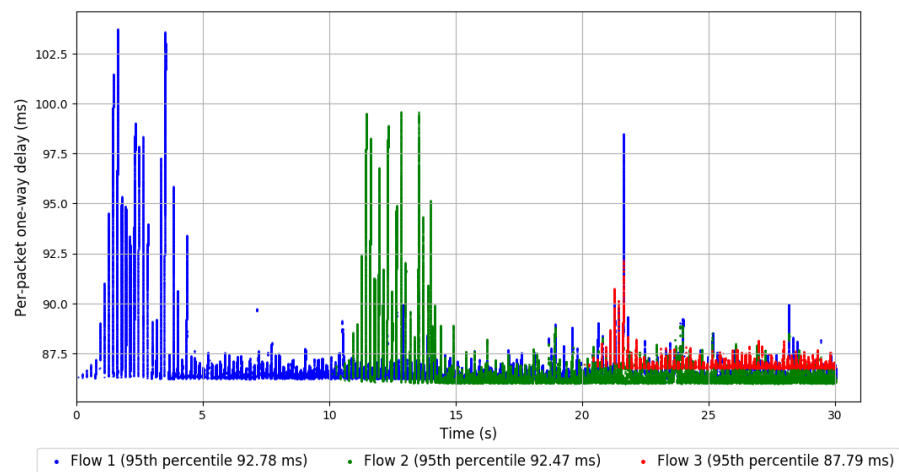
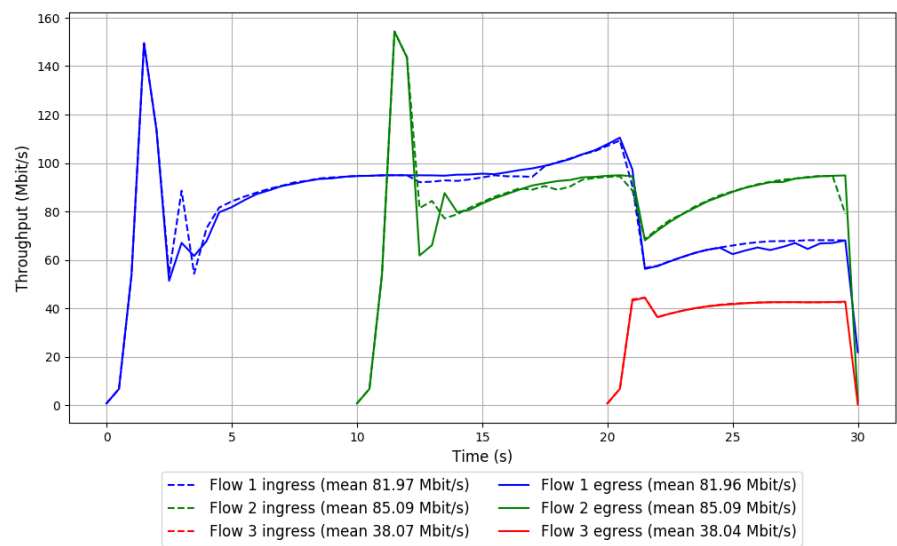
-- Flow 3:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 87.786 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link

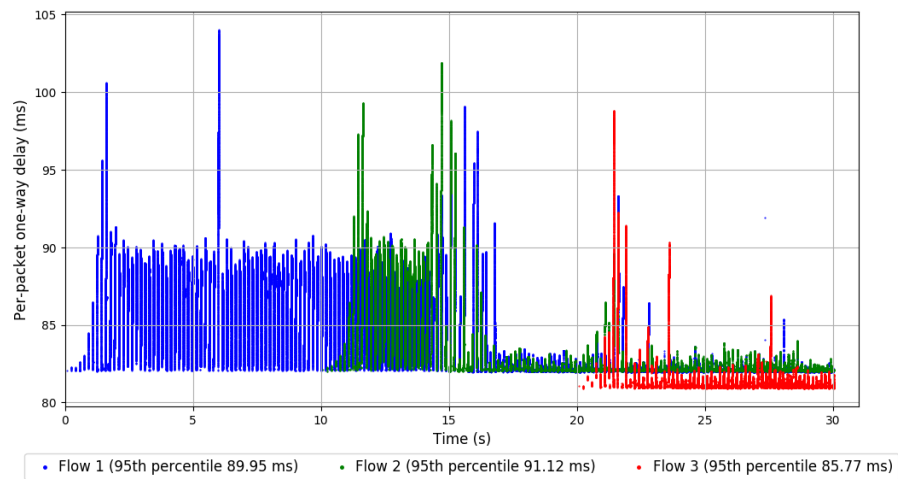
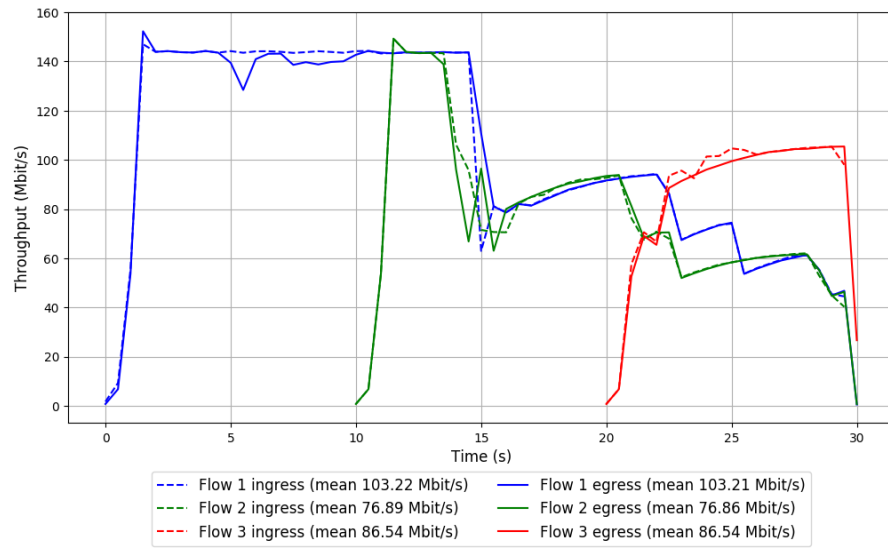


Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 21:58:42
End at: 2017-11-30 21:59:12
Local clock offset: 0.057 ms
Remote clock offset: -1.726 ms

Below is generated by plot.py at 2017-12-01 01:27:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 183.02 Mbit/s
95th percentile per-packet one-way delay: 89.969 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 103.21 Mbit/s
95th percentile per-packet one-way delay: 89.948 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 76.86 Mbit/s
95th percentile per-packet one-way delay: 91.124 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 85.766 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

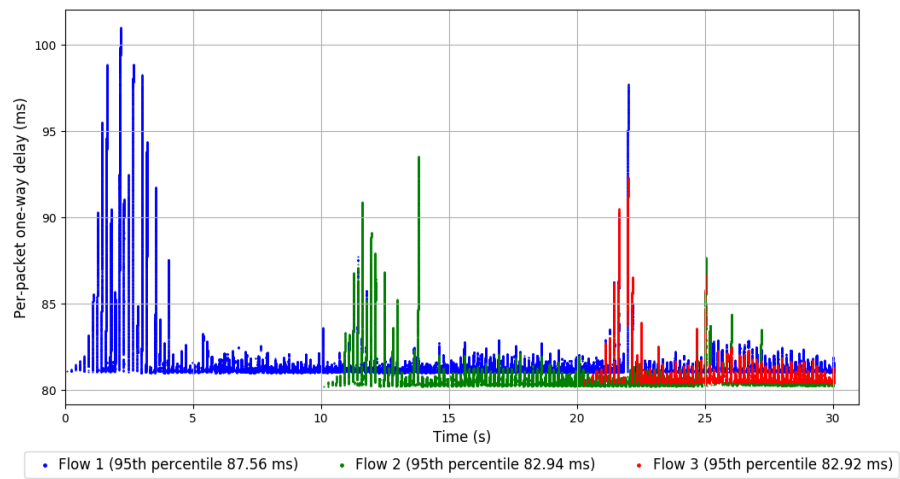
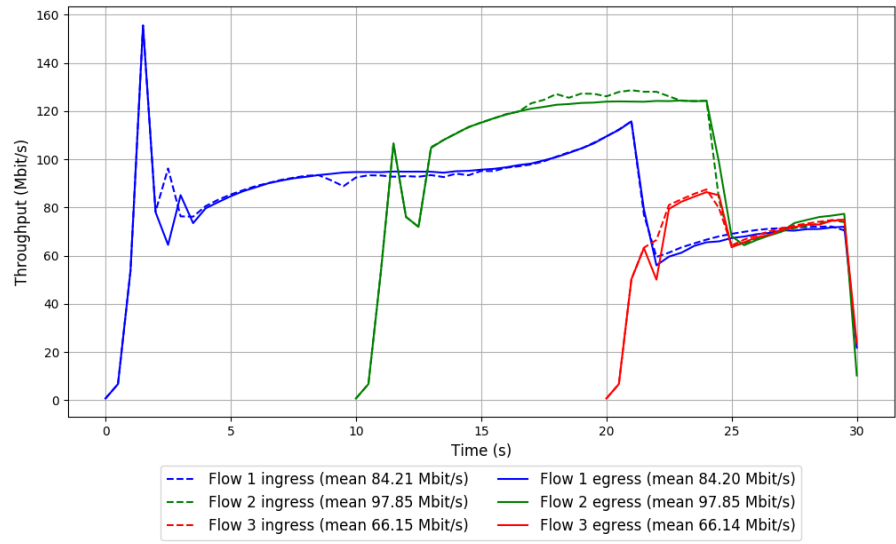


Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 22:18:54
End at: 2017-11-30 22:19:24
Local clock offset: -0.038 ms
Remote clock offset: -2.554 ms

Below is generated by plot.py at 2017-12-01 01:27:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.23 Mbit/s
95th percentile per-packet one-way delay: 84.685 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.20 Mbit/s
95th percentile per-packet one-way delay: 87.556 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 97.85 Mbit/s
95th percentile per-packet one-way delay: 82.943 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.14 Mbit/s
95th percentile per-packet one-way delay: 82.917 ms
Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 22:38:58

End at: 2017-11-30 22:39:28

Local clock offset: -0.122 ms

Remote clock offset: 3.005 ms

Below is generated by plot.py at 2017-12-01 01:28:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 231.38 Mbit/s

95th percentile per-packet one-way delay: 96.798 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 128.54 Mbit/s

95th percentile per-packet one-way delay: 97.092 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.55 Mbit/s

95th percentile per-packet one-way delay: 96.212 ms

Loss rate: 0.00%

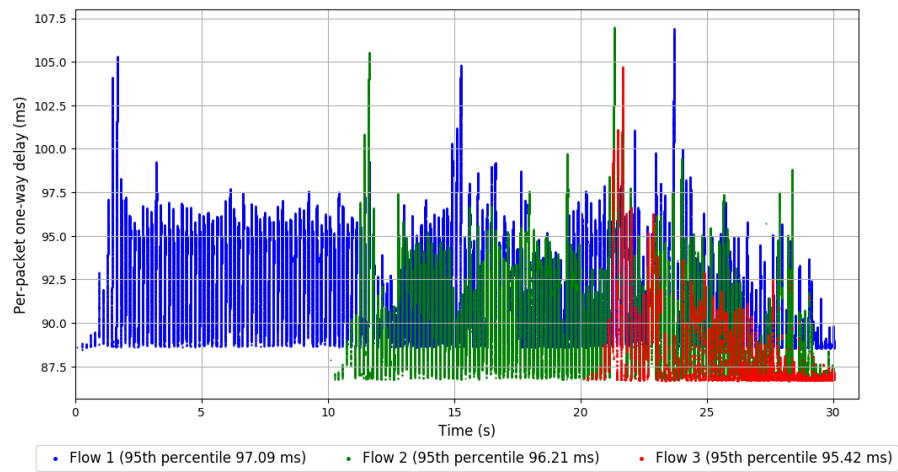
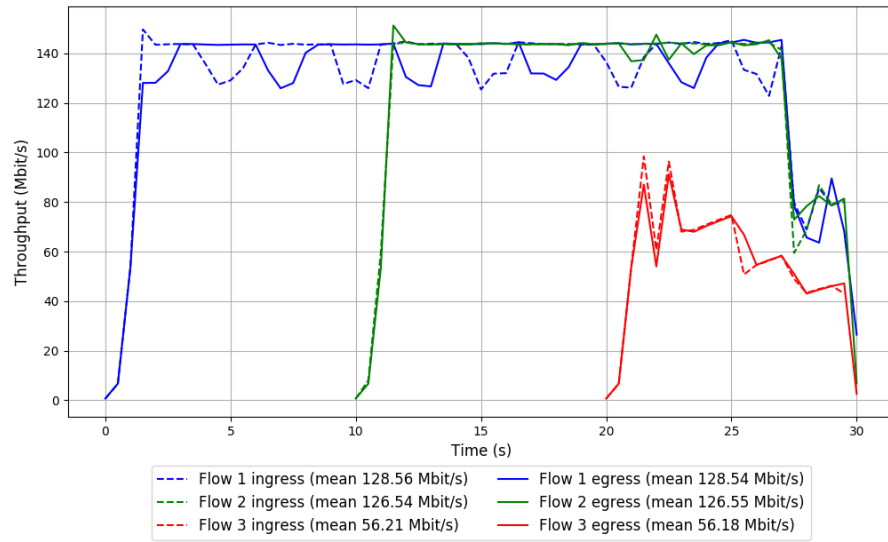
-- Flow 3:

Average throughput: 56.18 Mbit/s

95th percentile per-packet one-way delay: 95.423 ms

Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link

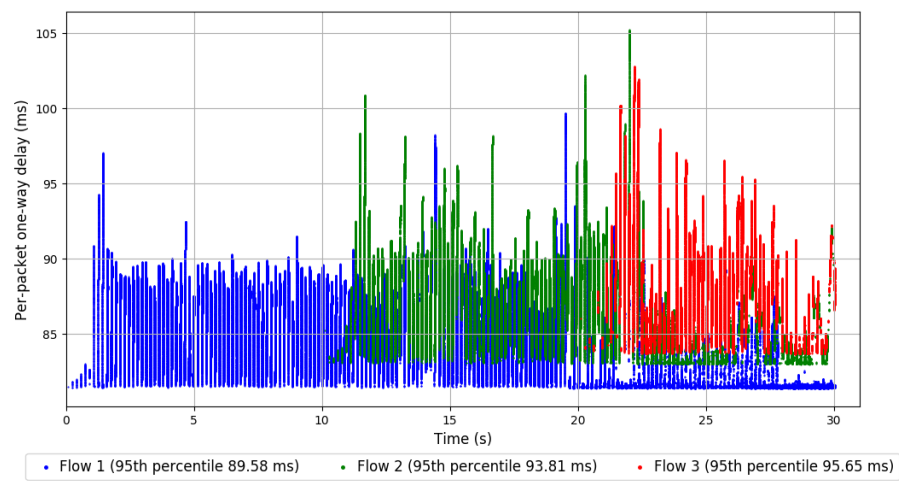
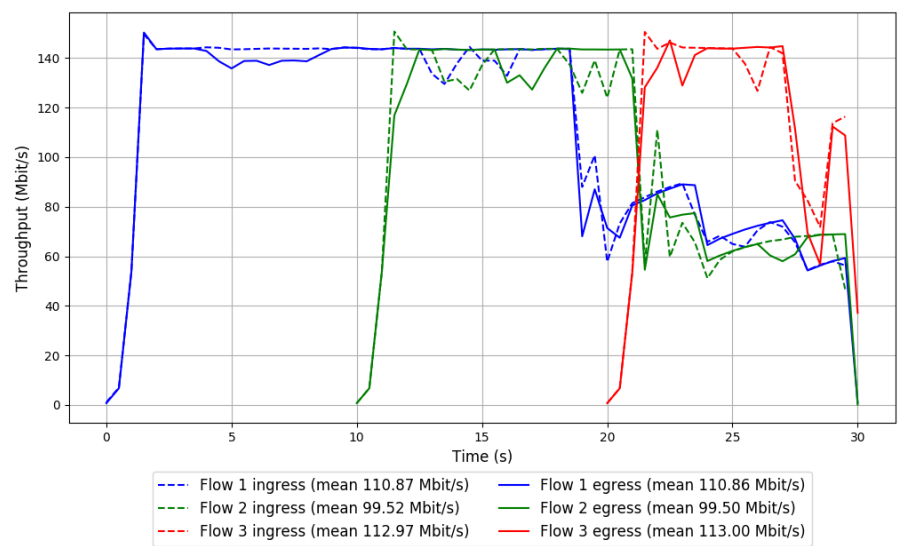


Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 22:59:18
End at: 2017-11-30 22:59:48
Local clock offset: -0.131 ms
Remote clock offset: -1.777 ms

Below is generated by plot.py at 2017-12-01 01:28:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.47 Mbit/s
95th percentile per-packet one-way delay: 92.902 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 110.86 Mbit/s
95th percentile per-packet one-way delay: 89.576 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 99.50 Mbit/s
95th percentile per-packet one-way delay: 93.805 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 113.00 Mbit/s
95th percentile per-packet one-way delay: 95.650 ms
Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 23:19:26

End at: 2017-11-30 23:19:56

Local clock offset: -0.242 ms

Remote clock offset: 5.118 ms

Below is generated by plot.py at 2017-12-01 01:29:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.07 Mbit/s

95th percentile per-packet one-way delay: 97.580 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 105.93 Mbit/s

95th percentile per-packet one-way delay: 98.449 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 95.991 ms

Loss rate: 0.01%

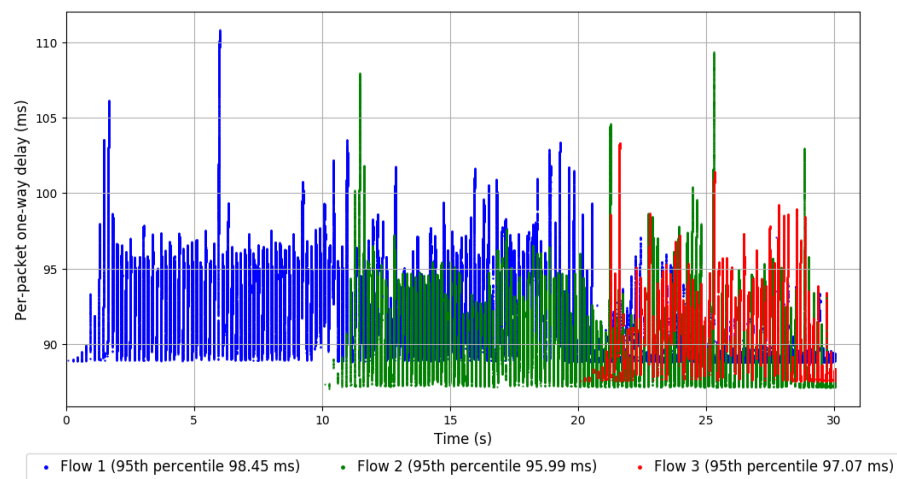
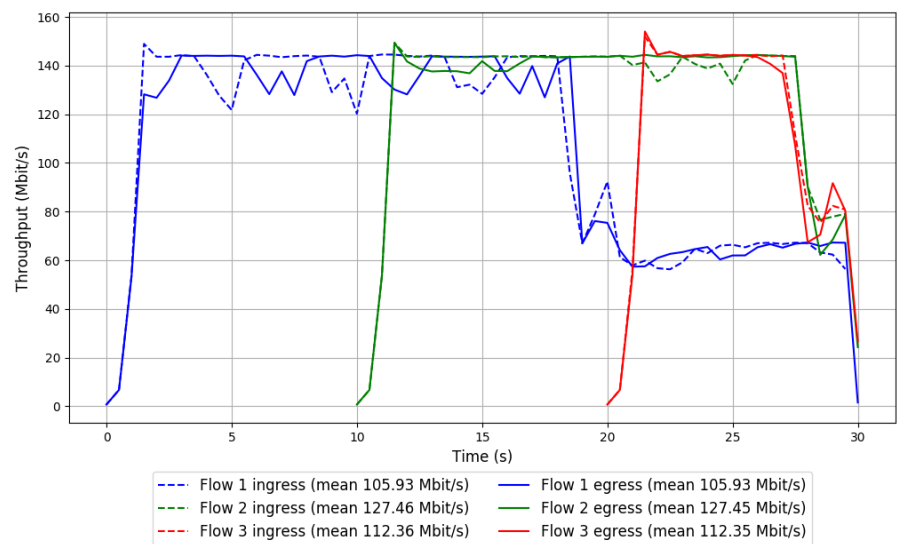
-- Flow 3:

Average throughput: 112.35 Mbit/s

95th percentile per-packet one-way delay: 97.072 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 23:39:25

End at: 2017-11-30 23:39:55

Local clock offset: -0.212 ms

Remote clock offset: 2.598 ms

Below is generated by plot.py at 2017-12-01 01:30:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 94.400 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 120.09 Mbit/s

95th percentile per-packet one-way delay: 92.751 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 119.57 Mbit/s

95th percentile per-packet one-way delay: 96.130 ms

Loss rate: 0.01%

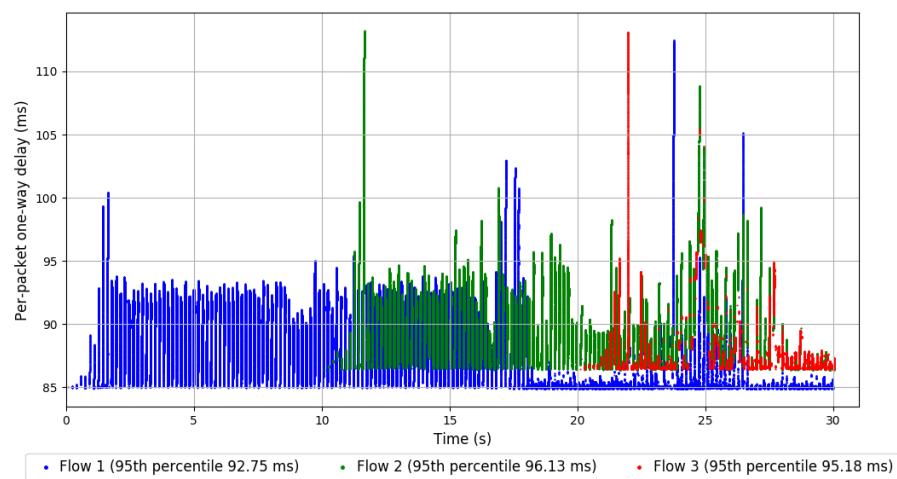
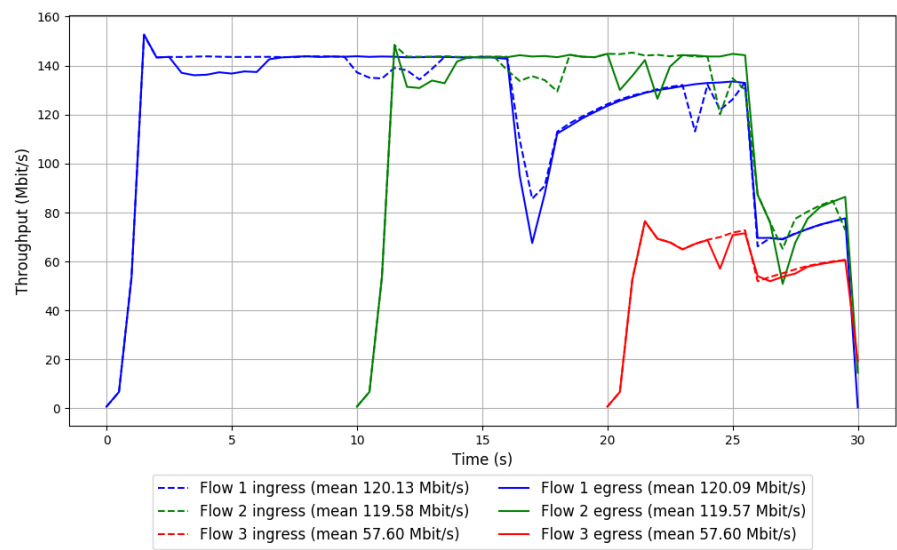
-- Flow 3:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 95.181 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

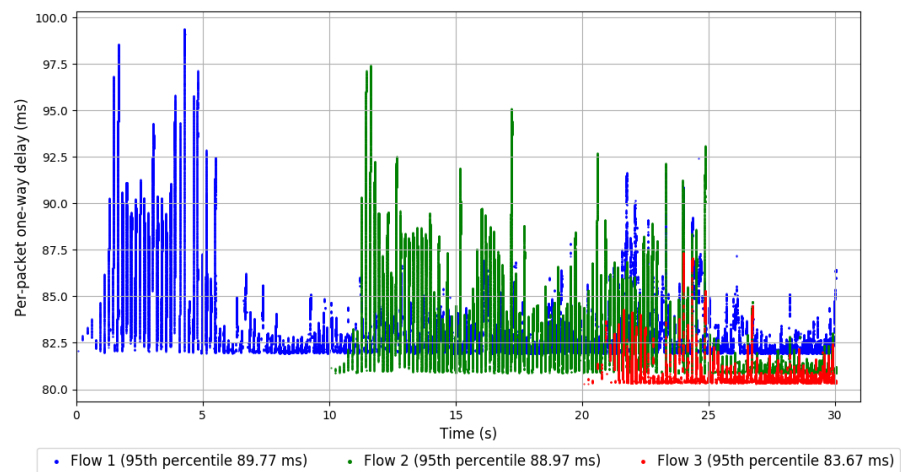
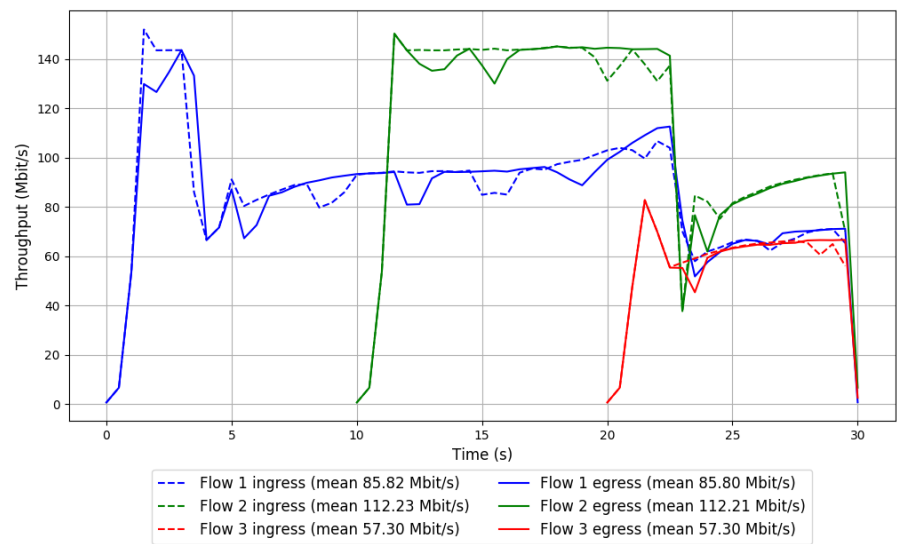


Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 23:59:33
End at: 2017-12-01 00:00:03
Local clock offset: -0.228 ms
Remote clock offset: -1.616 ms

Below is generated by plot.py at 2017-12-01 01:30:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 179.59 Mbit/s
95th percentile per-packet one-way delay: 89.216 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 89.768 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 112.21 Mbit/s
95th percentile per-packet one-way delay: 88.972 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 83.670 ms
Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-01 00:19:38

End at: 2017-12-01 00:20:08

Local clock offset: -0.205 ms

Remote clock offset: 4.675 ms

Below is generated by plot.py at 2017-12-01 01:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.71 Mbit/s

95th percentile per-packet one-way delay: 108.240 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 116.38 Mbit/s

95th percentile per-packet one-way delay: 95.111 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.13 Mbit/s

95th percentile per-packet one-way delay: 112.906 ms

Loss rate: 0.01%

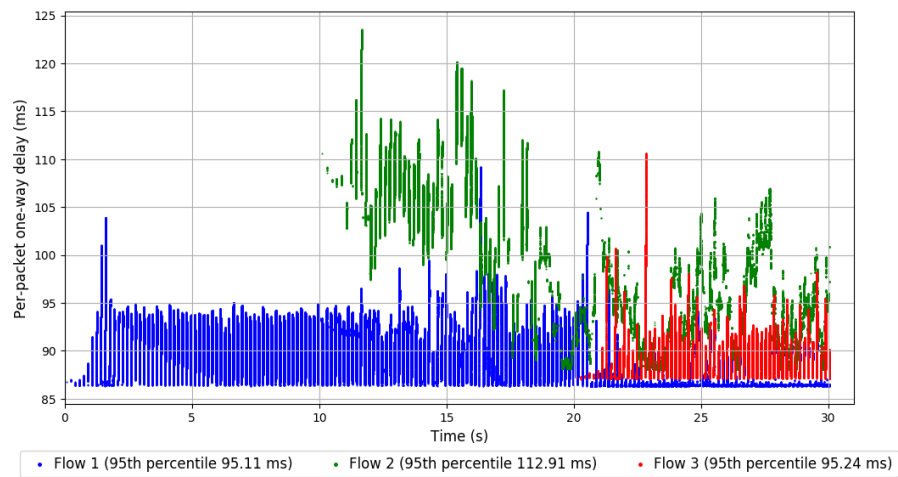
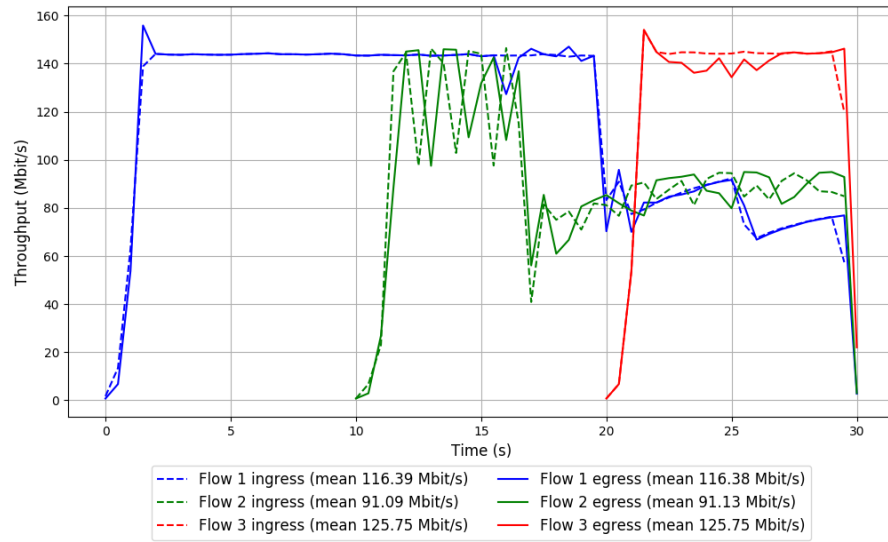
-- Flow 3:

Average throughput: 125.75 Mbit/s

95th percentile per-packet one-way delay: 95.241 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

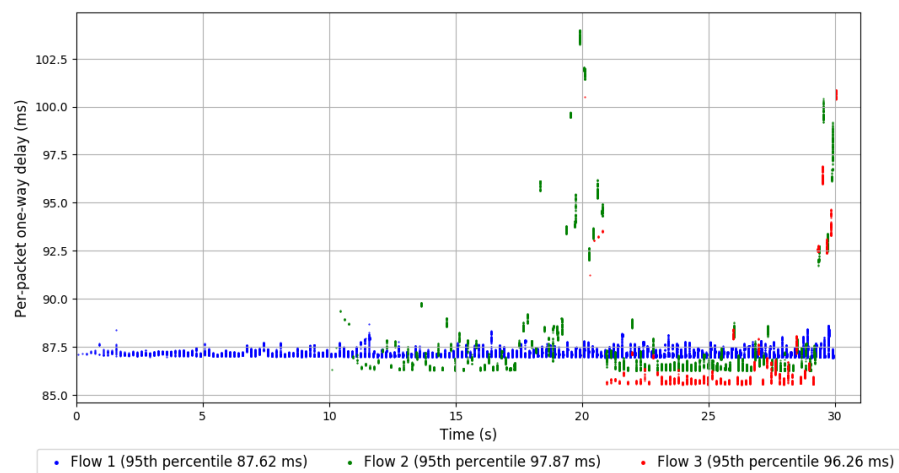
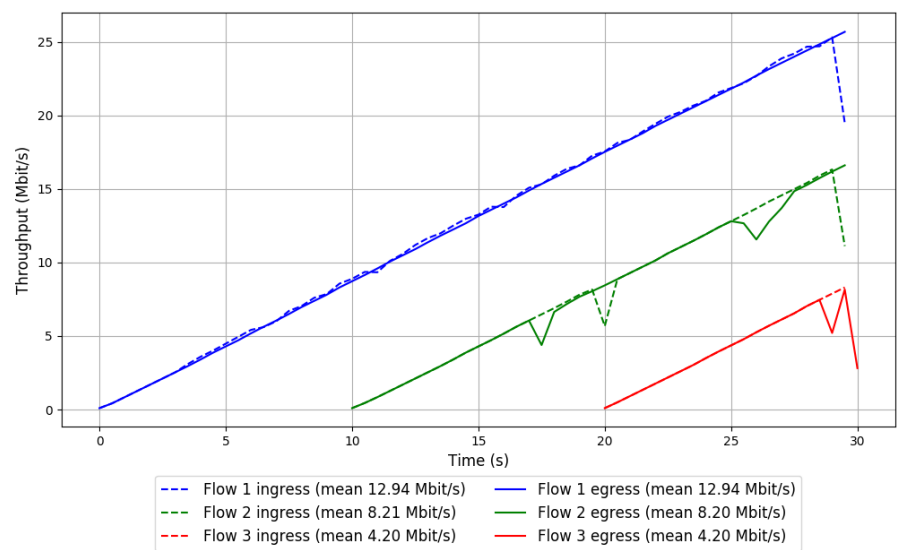


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 21:09:04
End at: 2017-11-30 21:09:34
Local clock offset: 0.401 ms
Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2017-12-01 01:30:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 92.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 87.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 97.868 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 96.263 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

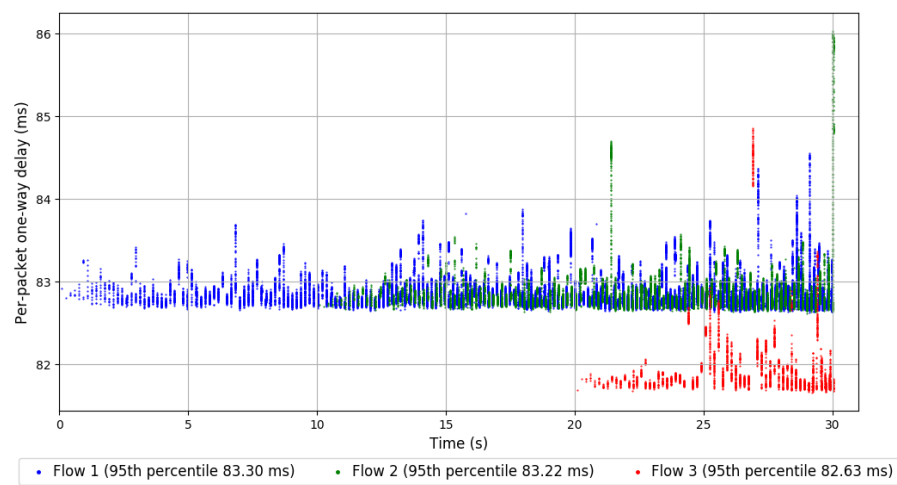
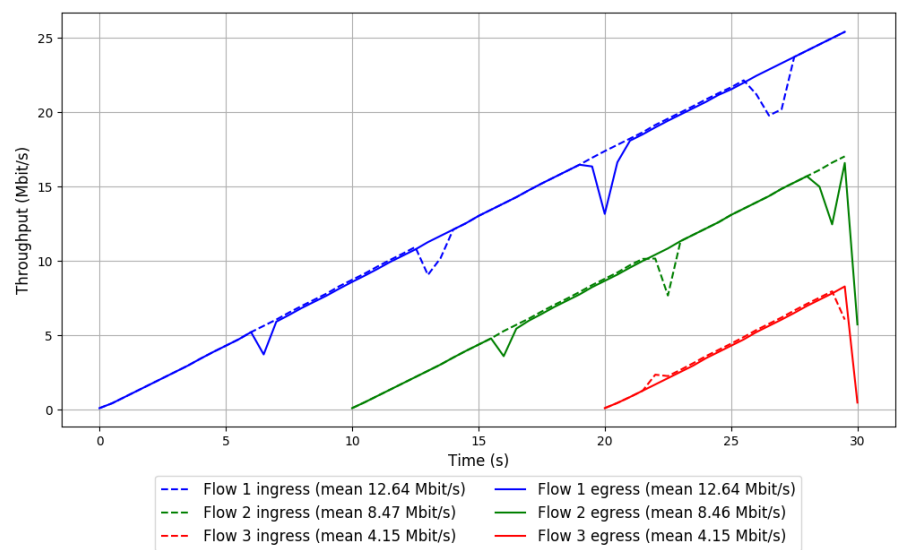


Run 2: Statistics of LEDBAT

Start at: 2017-11-30 21:28:56
End at: 2017-11-30 21:29:27
Local clock offset: 0.321 ms
Remote clock offset: -2.777 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 83.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.64 Mbit/s
95th percentile per-packet one-way delay: 83.302 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 83.224 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 82.630 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

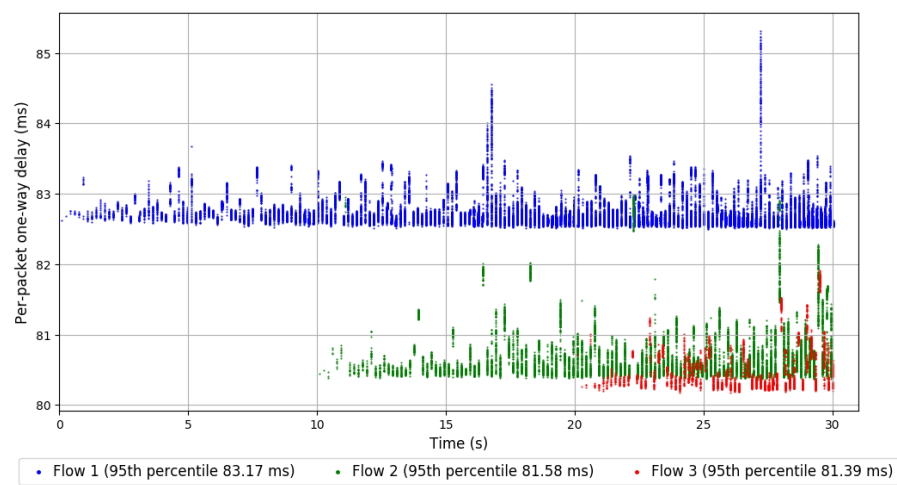
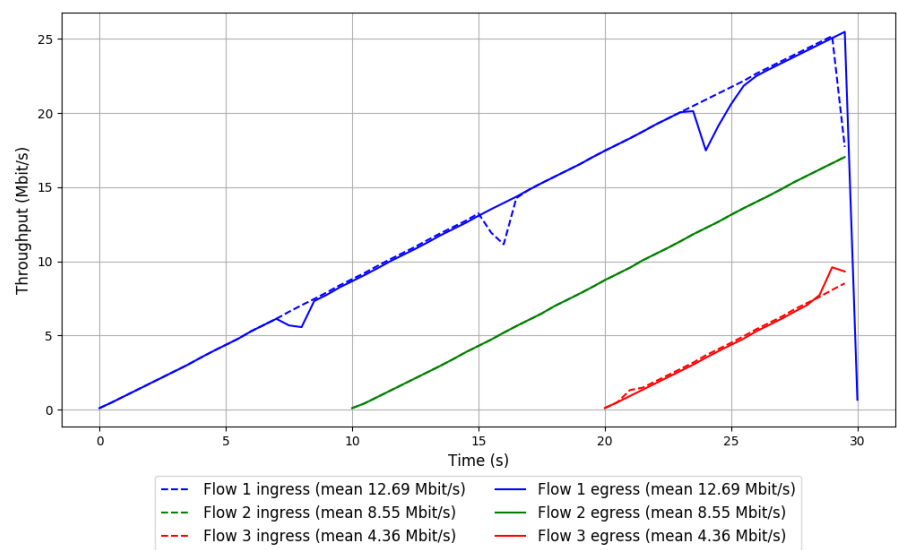


Run 3: Statistics of LEDBAT

Start at: 2017-11-30 21:48:51
End at: 2017-11-30 21:49:21
Local clock offset: 0.234 ms
Remote clock offset: -1.788 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 83.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 83.173 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 81.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 81.392 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 22:08:50

End at: 2017-11-30 22:09:20

Local clock offset: 0.084 ms

Remote clock offset: 3.945 ms

Below is generated by plot.py at 2017-12-01 01:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 89.045 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 88.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 89.287 ms

Loss rate: 0.00%

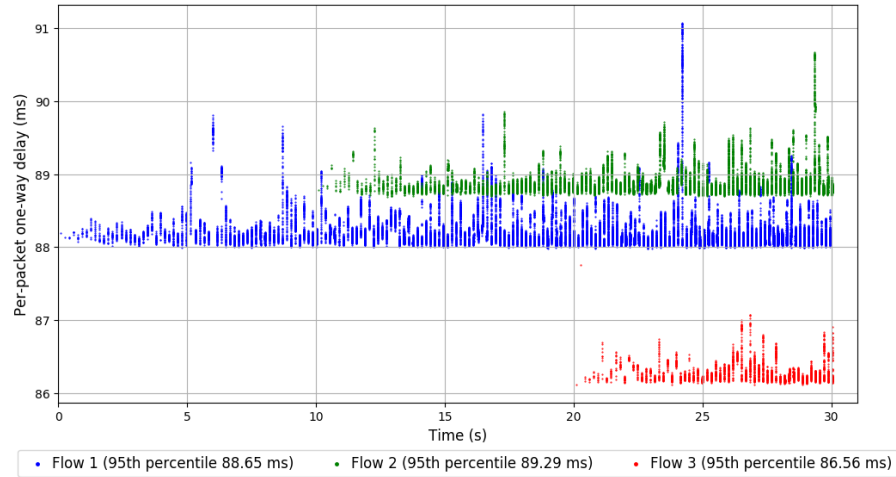
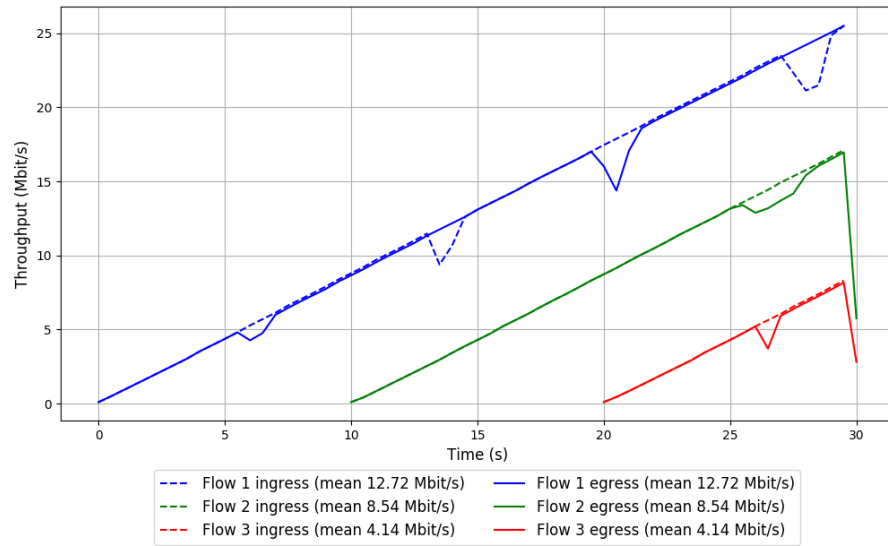
-- Flow 3:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 86.561 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

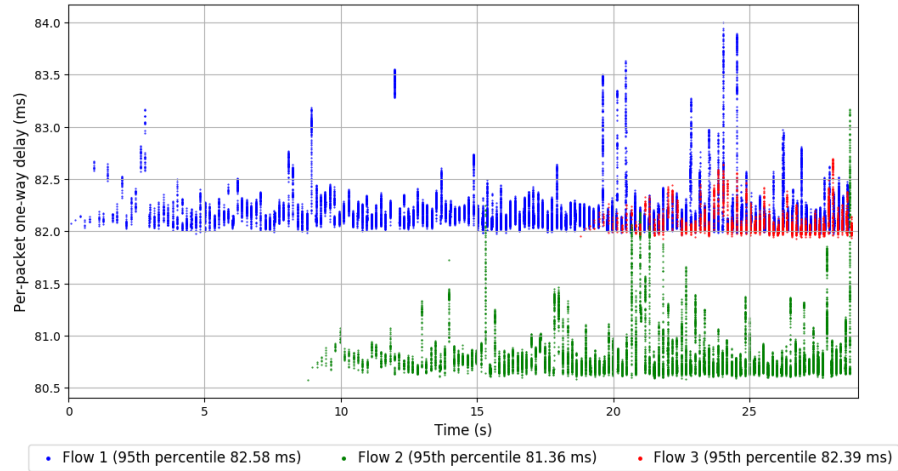
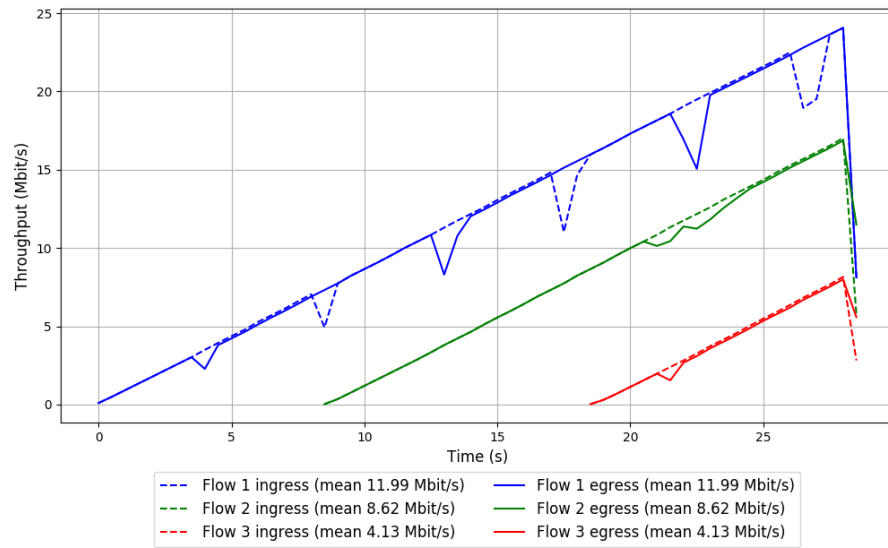


Run 5: Statistics of LEDBAT

Start at: 2017-11-30 22:29:01
End at: 2017-11-30 22:29:31
Local clock offset: -0.029 ms
Remote clock offset: -3.014 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.36 Mbit/s
95th percentile per-packet one-way delay: 82.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 82.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 81.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 82.391 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

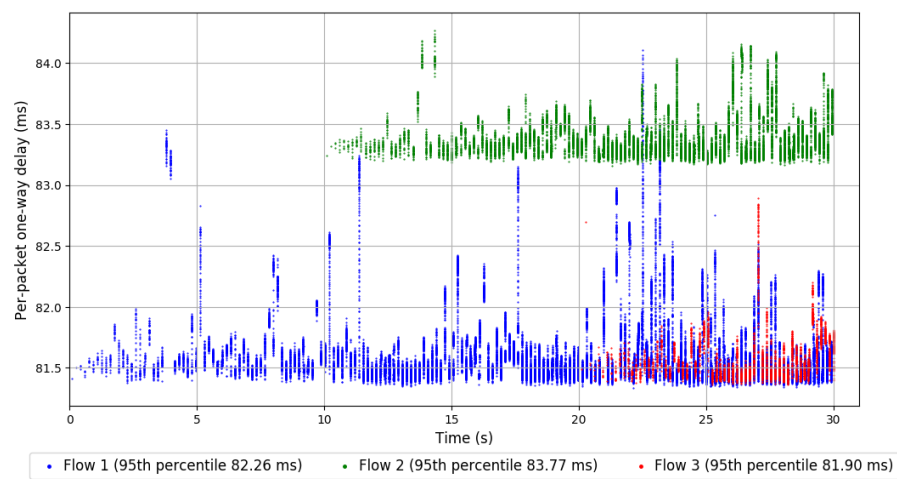
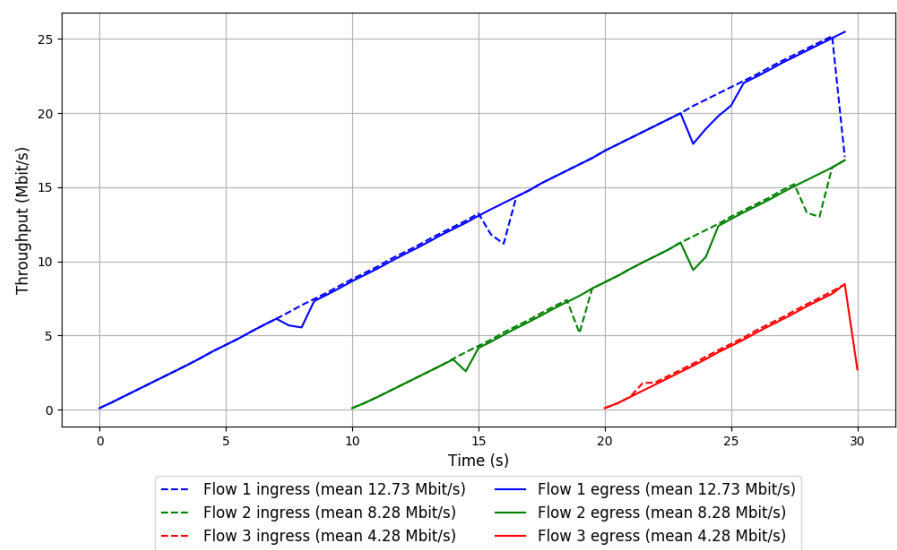


Run 6: Statistics of LEDBAT

Start at: 2017-11-30 22:49:09
End at: 2017-11-30 22:49:39
Local clock offset: -0.133 ms
Remote clock offset: -2.045 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.60 Mbit/s
95th percentile per-packet one-way delay: 83.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 82.264 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 83.769 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 81.904 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

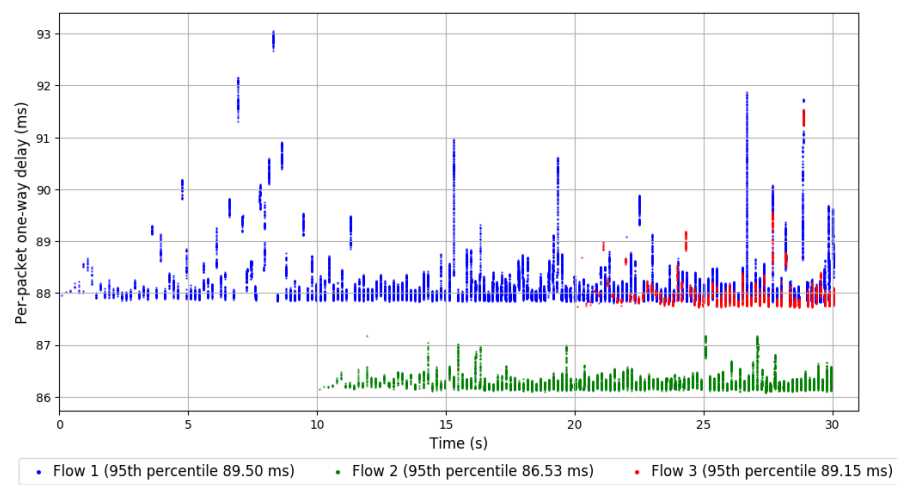
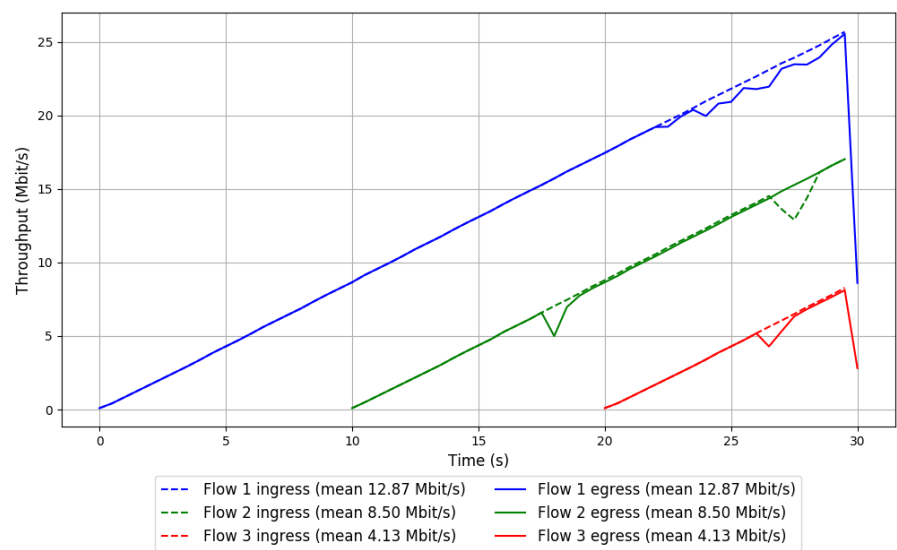


Run 7: Statistics of LEDBAT

Start at: 2017-11-30 23:09:26
End at: 2017-11-30 23:09:56
Local clock offset: -0.152 ms
Remote clock offset: 3.708 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.87 Mbit/s
95th percentile per-packet one-way delay: 89.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 89.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 86.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 89.152 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

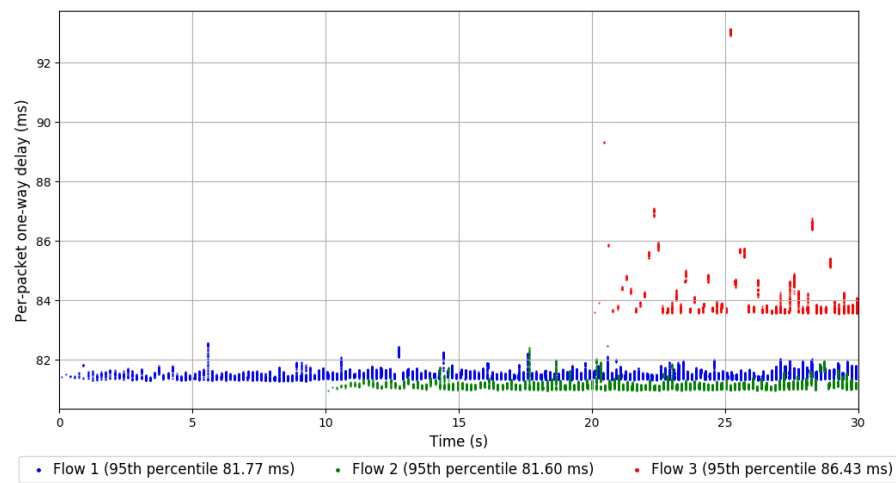
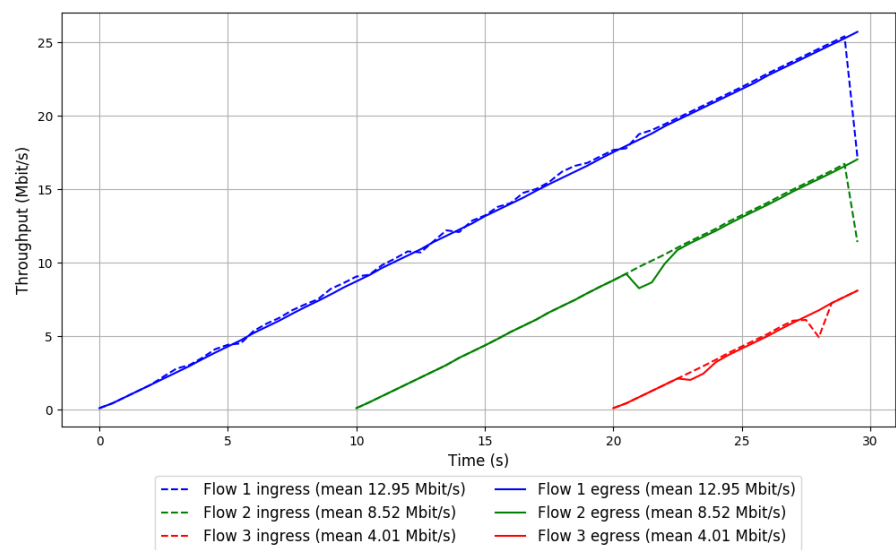


Run 8: Statistics of LEDBAT

Start at: 2017-11-30 23:29:36
End at: 2017-11-30 23:30:06
Local clock offset: -0.21 ms
Remote clock offset: -0.597 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.91 Mbit/s
95th percentile per-packet one-way delay: 83.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 81.772 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 81.601 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 86.432 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 23:49:36

End at: 2017-11-30 23:50:06

Local clock offset: -0.205 ms

Remote clock offset: 3.499 ms

Below is generated by plot.py at 2017-12-01 01:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.78 Mbit/s

95th percentile per-packet one-way delay: 87.239 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 86.073 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 86.372 ms

Loss rate: 0.00%

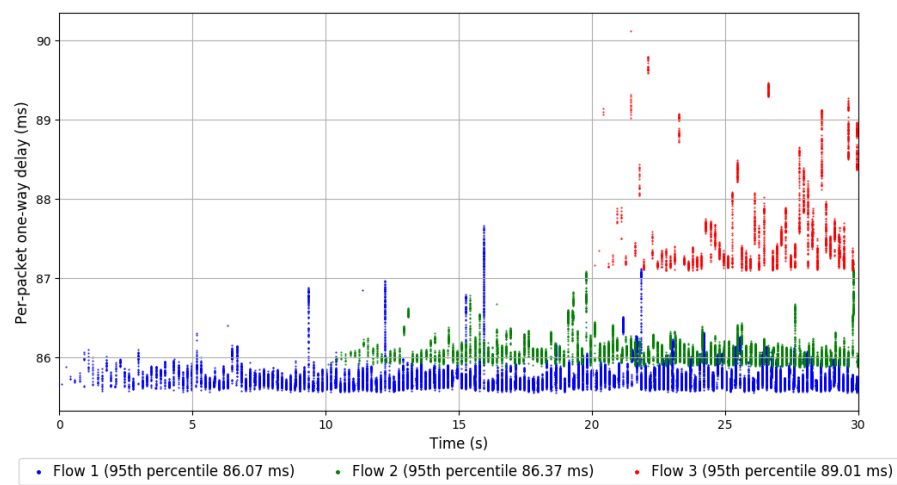
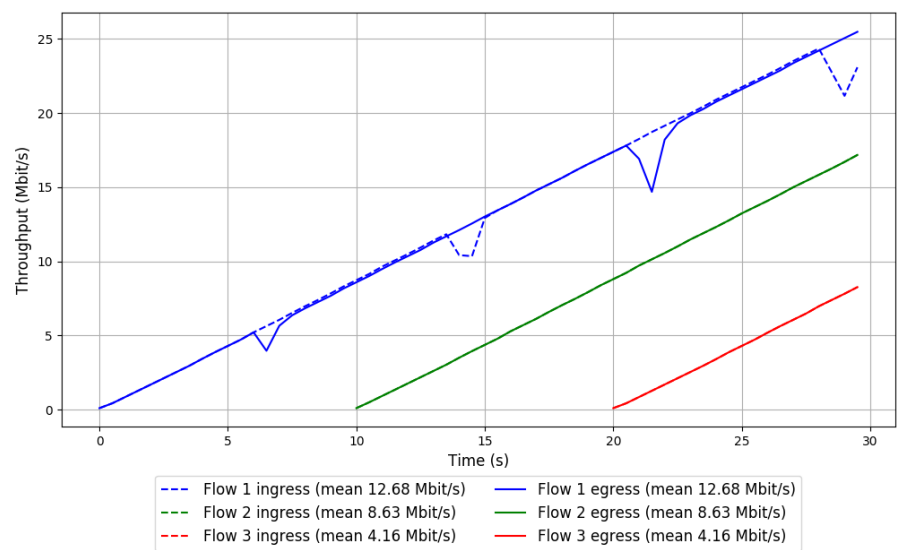
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 89.014 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

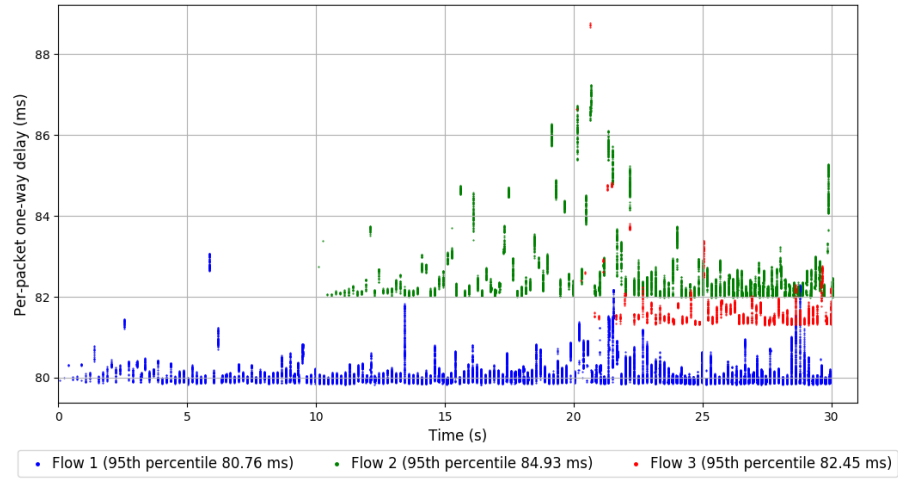
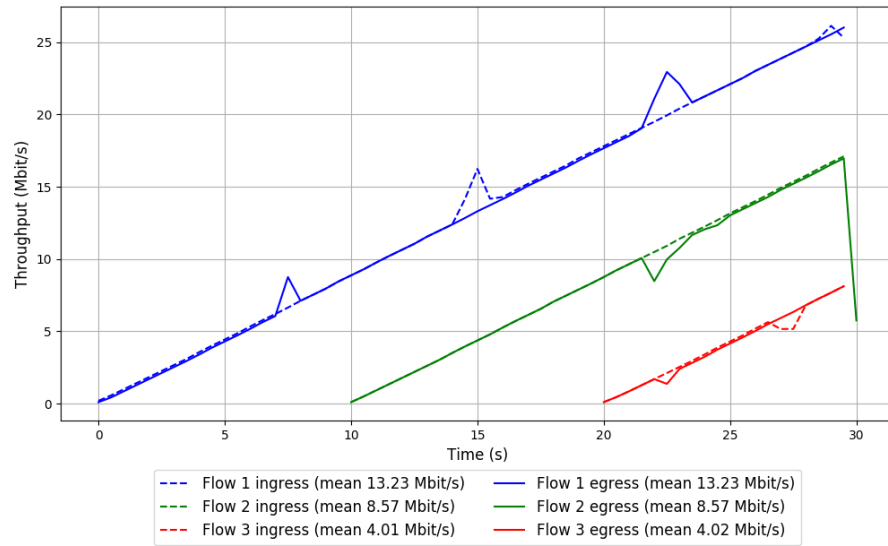


Run 10: Statistics of LEDBAT

Start at: 2017-12-01 00:09:37
End at: 2017-12-01 00:10:07
Local clock offset: -0.189 ms
Remote clock offset: -1.864 ms

Below is generated by plot.py at 2017-12-01 01:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 82.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 80.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 84.932 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 82.447 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

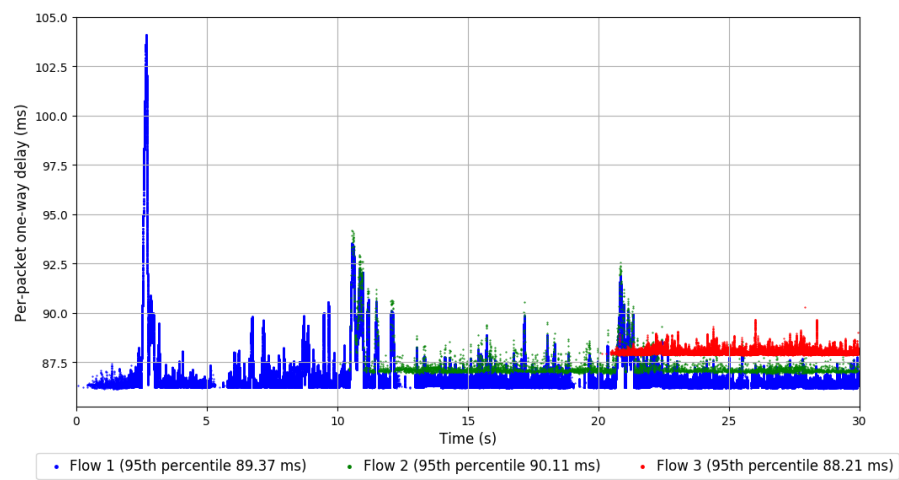
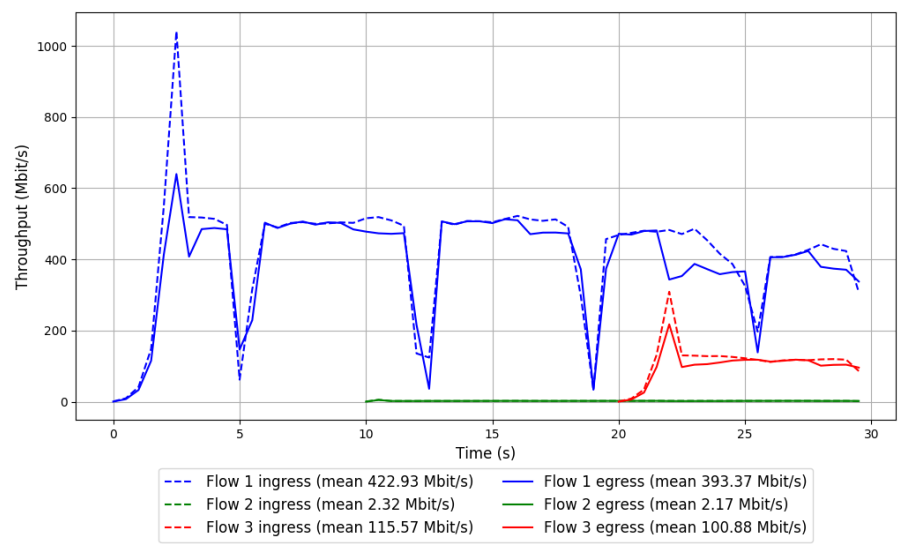


```
Run 1: Statistics of PCC

Start at: 2017-11-30 21:27:25
End at: 2017-11-30 21:27:55
Local clock offset: 0.347 ms
Remote clock offset: 2.687 ms

# Below is generated by plot.py at 2017-12-01 01:34:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.96 Mbit/s
95th percentile per-packet one-way delay: 89.238 ms
Loss rate: 7.46%
-- Flow 1:
Average throughput: 393.37 Mbit/s
95th percentile per-packet one-way delay: 89.370 ms
Loss rate: 6.99%
-- Flow 2:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 90.111 ms
Loss rate: 6.44%
-- Flow 3:
Average throughput: 100.88 Mbit/s
95th percentile per-packet one-way delay: 88.212 ms
Loss rate: 12.70%
```

Run 1: Report of PCC — Data Link

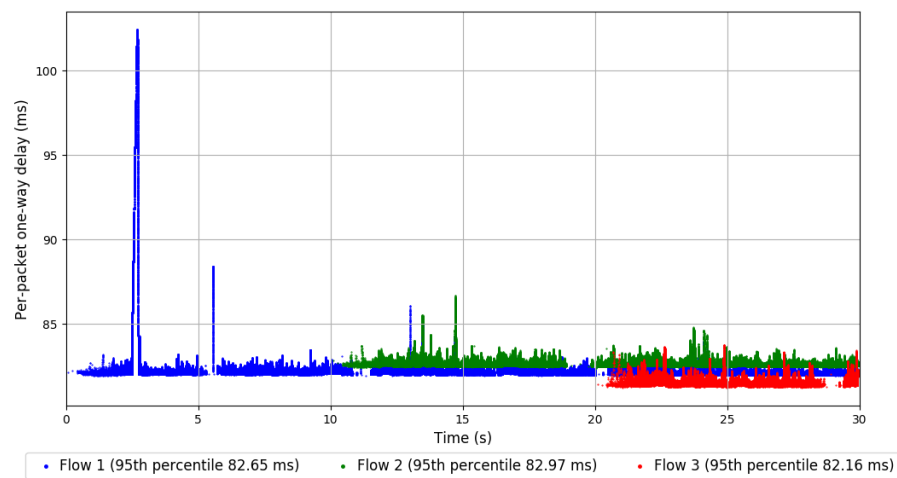
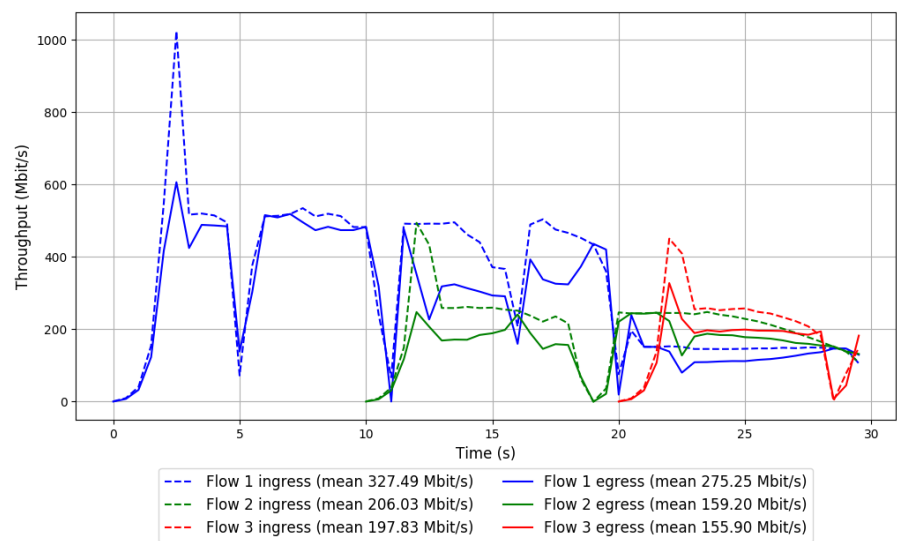


Run 2: Statistics of PCC

Start at: 2017-11-30 21:47:17
End at: 2017-11-30 21:47:47
Local clock offset: 0.148 ms
Remote clock offset: -1.843 ms

Below is generated by plot.py at 2017-12-01 01:35:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 432.38 Mbit/s
95th percentile per-packet one-way delay: 82.829 ms
Loss rate: 18.35%
-- Flow 1:
Average throughput: 275.25 Mbit/s
95th percentile per-packet one-way delay: 82.650 ms
Loss rate: 15.95%
-- Flow 2:
Average throughput: 159.20 Mbit/s
95th percentile per-packet one-way delay: 82.975 ms
Loss rate: 22.73%
-- Flow 3:
Average throughput: 155.90 Mbit/s
95th percentile per-packet one-way delay: 82.164 ms
Loss rate: 21.19%

Run 2: Report of PCC — Data Link

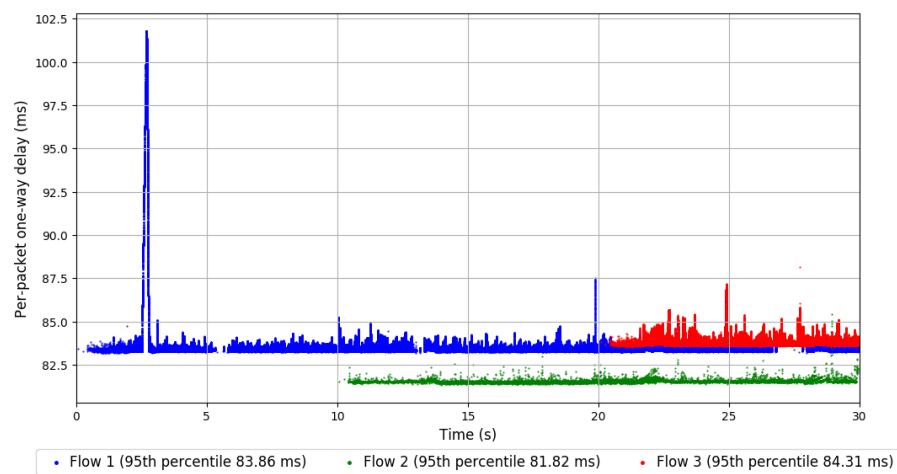
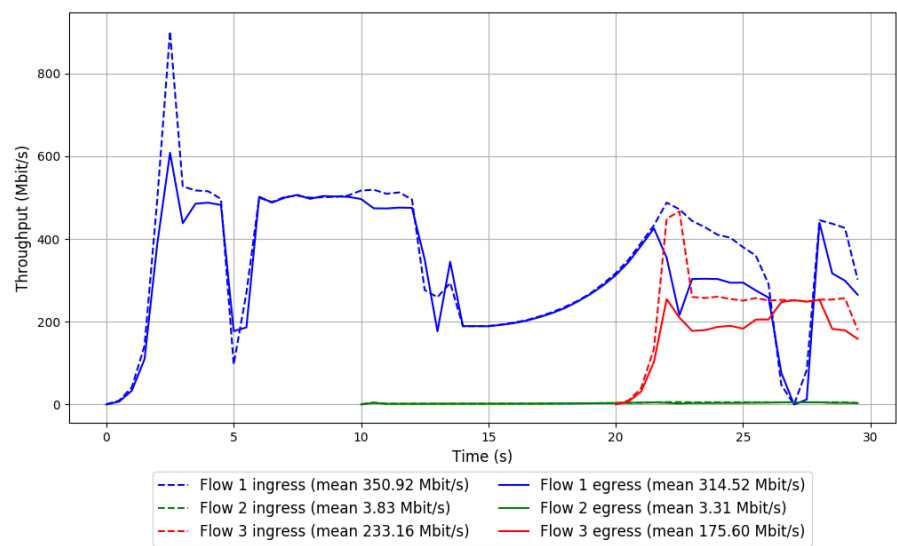


Run 3: Statistics of PCC

Start at: 2017-11-30 22:07:19
End at: 2017-11-30 22:07:49
Local clock offset: 0.085 ms
Remote clock offset: -0.669 ms

Below is generated by plot.py at 2017-12-01 01:35:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.62 Mbit/s
95th percentile per-packet one-way delay: 84.016 ms
Loss rate: 12.95%
-- Flow 1:
Average throughput: 314.52 Mbit/s
95th percentile per-packet one-way delay: 83.858 ms
Loss rate: 10.37%
-- Flow 2:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 81.820 ms
Loss rate: 13.69%
-- Flow 3:
Average throughput: 175.60 Mbit/s
95th percentile per-packet one-way delay: 84.313 ms
Loss rate: 24.69%

Run 3: Report of PCC — Data Link

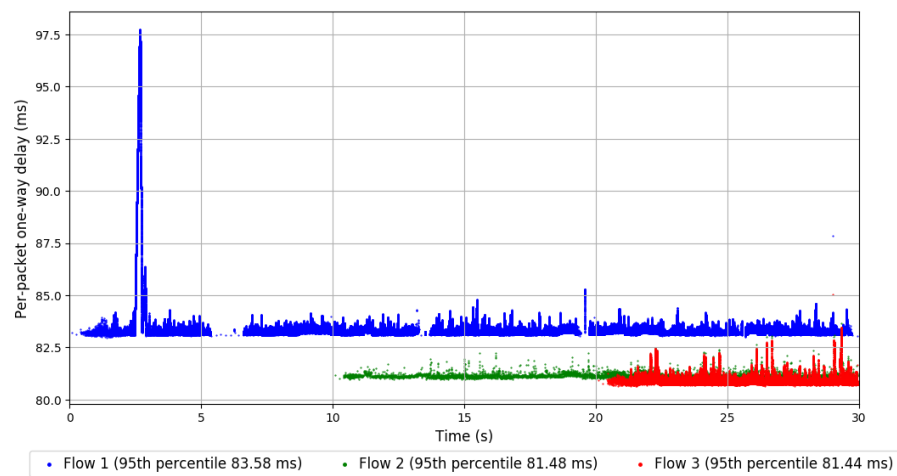
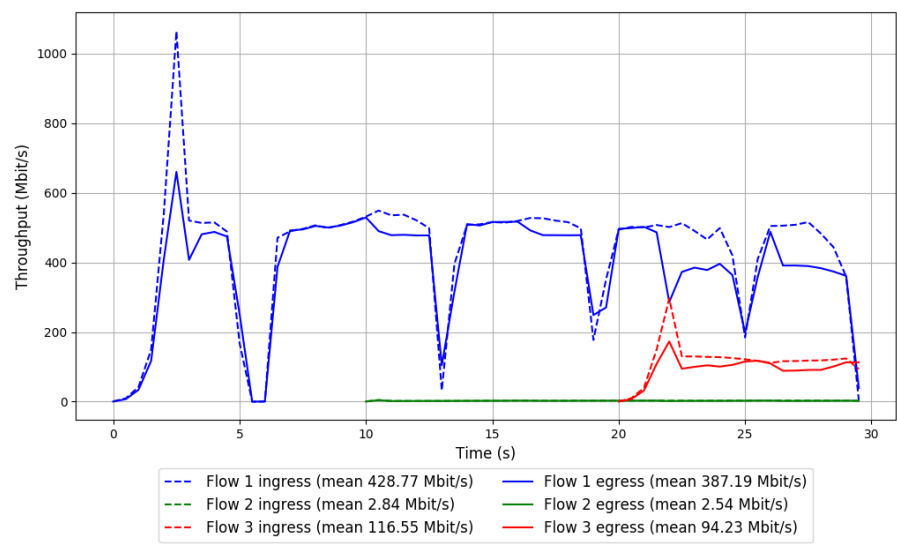


Run 4: Statistics of PCC

Start at: 2017-11-30 22:27:29
End at: 2017-11-30 22:27:59
Local clock offset: -0.086 ms
Remote clock offset: -2.562 ms

Below is generated by plot.py at 2017-12-01 01:35:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 419.78 Mbit/s
95th percentile per-packet one-way delay: 83.548 ms
Loss rate: 10.48%
-- Flow 1:
Average throughput: 387.19 Mbit/s
95th percentile per-packet one-way delay: 83.579 ms
Loss rate: 9.70%
-- Flow 2:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 81.477 ms
Loss rate: 10.27%
-- Flow 3:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 81.441 ms
Loss rate: 19.15%

Run 4: Report of PCC — Data Link

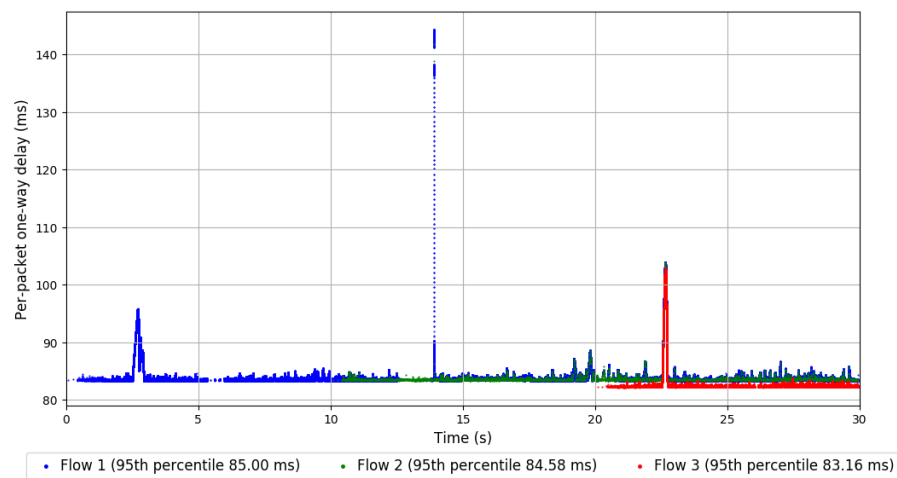
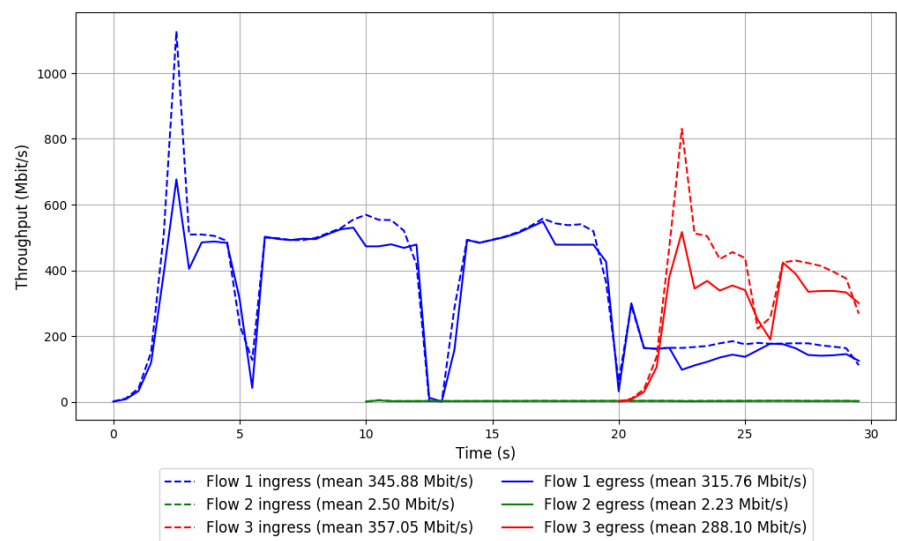


Run 5: Statistics of PCC

Start at: 2017-11-30 22:47:37
End at: 2017-11-30 22:48:07
Local clock offset: -0.084 ms
Remote clock offset: -1.859 ms

Below is generated by plot.py at 2017-12-01 01:35:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 412.25 Mbit/s
95th percentile per-packet one-way delay: 84.931 ms
Loss rate: 11.40%
-- Flow 1:
Average throughput: 315.76 Mbit/s
95th percentile per-packet one-way delay: 84.998 ms
Loss rate: 8.71%
-- Flow 2:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 84.582 ms
Loss rate: 10.87%
-- Flow 3:
Average throughput: 288.10 Mbit/s
95th percentile per-packet one-way delay: 83.156 ms
Loss rate: 19.31%

Run 5: Report of PCC — Data Link

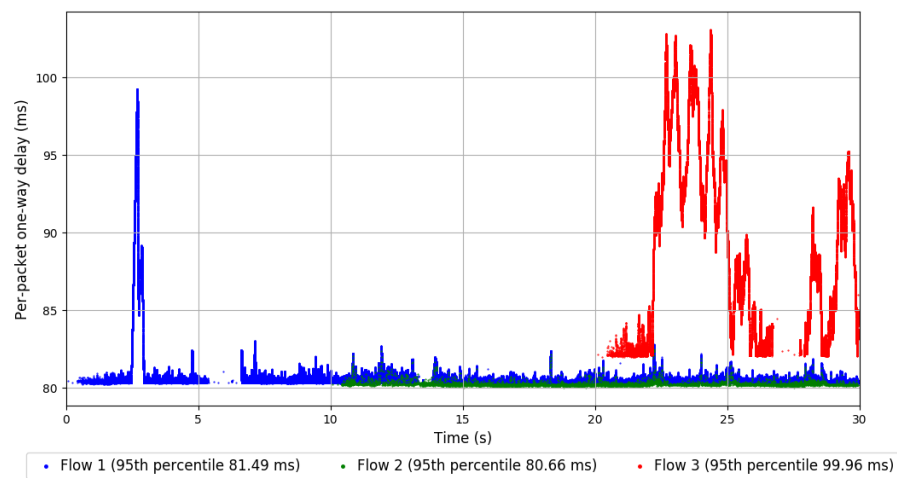
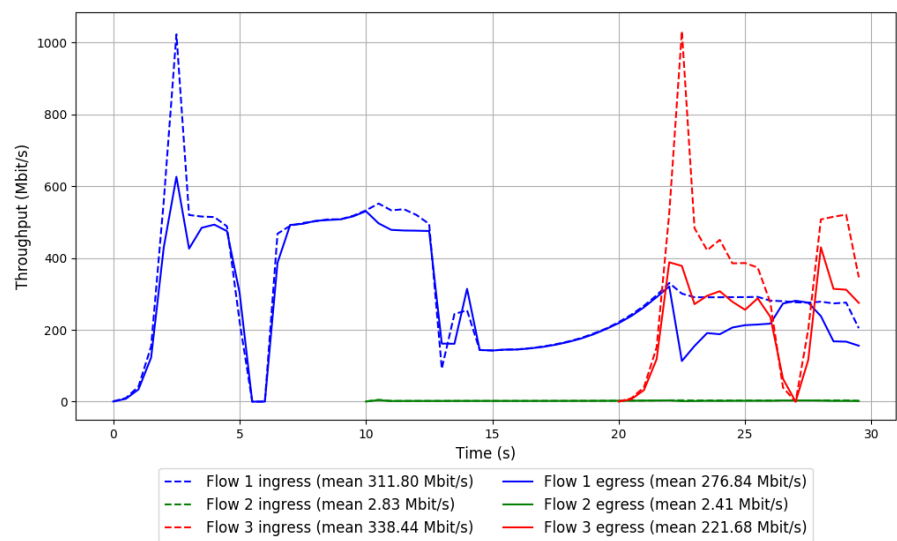


Run 6: Statistics of PCC

Start at: 2017-11-30 23:07:54
End at: 2017-11-30 23:08:25
Local clock offset: -0.147 ms
Remote clock offset: -2.321 ms

Below is generated by plot.py at 2017-12-01 01:35:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.46 Mbit/s
95th percentile per-packet one-way delay: 94.555 ms
Loss rate: 17.33%
-- Flow 1:
Average throughput: 276.84 Mbit/s
95th percentile per-packet one-way delay: 81.486 ms
Loss rate: 11.21%
-- Flow 2:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 80.659 ms
Loss rate: 14.76%
-- Flow 3:
Average throughput: 221.68 Mbit/s
95th percentile per-packet one-way delay: 99.961 ms
Loss rate: 34.47%

Run 6: Report of PCC — Data Link

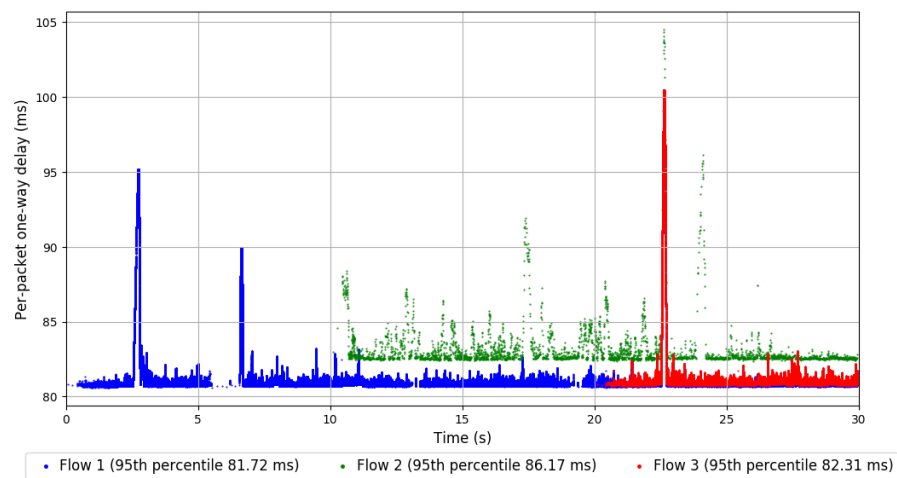
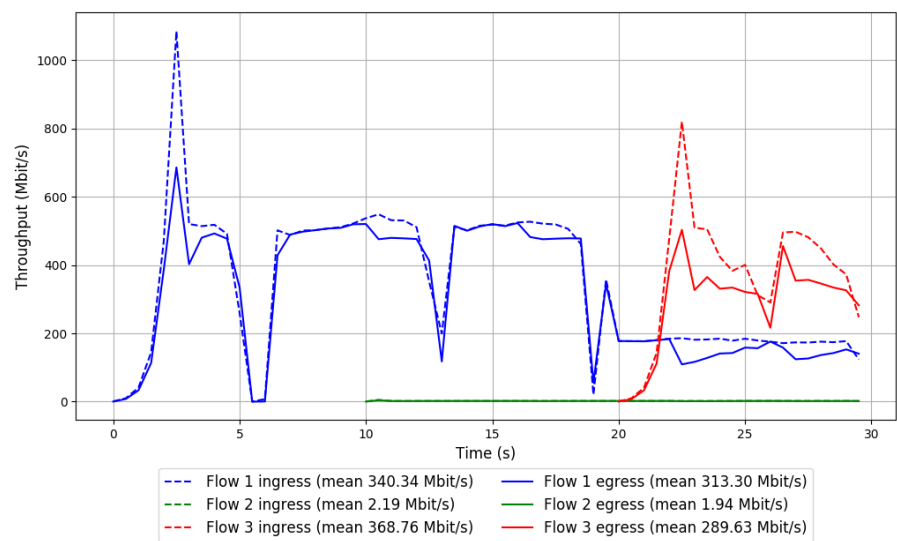


Run 7: Statistics of PCC

Start at: 2017-11-30 23:28:05
End at: 2017-11-30 23:28:35
Local clock offset: -0.271 ms
Remote clock offset: -1.436 ms

Below is generated by plot.py at 2017-12-01 01:36:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 410.09 Mbit/s
95th percentile per-packet one-way delay: 81.984 ms
Loss rate: 11.50%
-- Flow 1:
Average throughput: 313.30 Mbit/s
95th percentile per-packet one-way delay: 81.723 ms
Loss rate: 7.95%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 86.174 ms
Loss rate: 11.03%
-- Flow 3:
Average throughput: 289.63 Mbit/s
95th percentile per-packet one-way delay: 82.311 ms
Loss rate: 21.46%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 23:48:03

End at: 2017-11-30 23:48:33

Local clock offset: -0.21 ms

Remote clock offset: 4.645 ms

Below is generated by plot.py at 2017-12-01 01:36:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.28 Mbit/s

95th percentile per-packet one-way delay: 92.236 ms

Loss rate: 16.98%

-- Flow 1:

Average throughput: 311.29 Mbit/s

95th percentile per-packet one-way delay: 87.600 ms

Loss rate: 16.63%

-- Flow 2:

Average throughput: 98.00 Mbit/s

95th percentile per-packet one-way delay: 97.143 ms

Loss rate: 17.42%

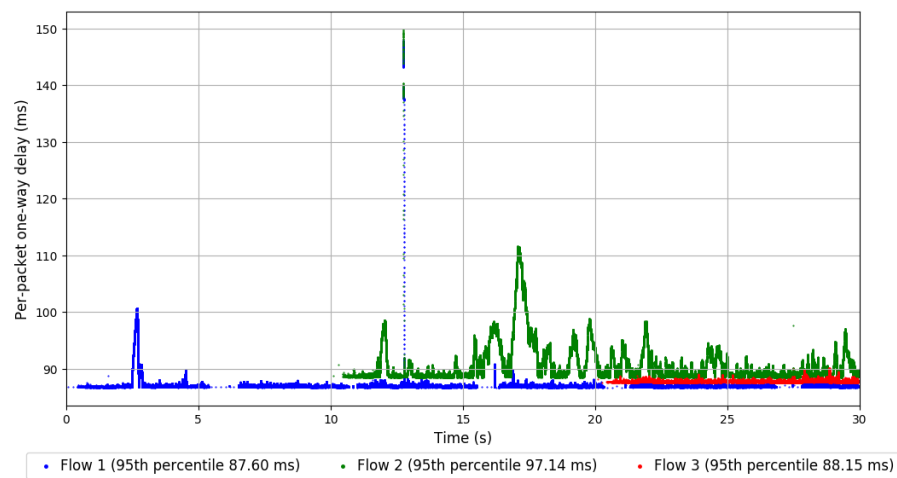
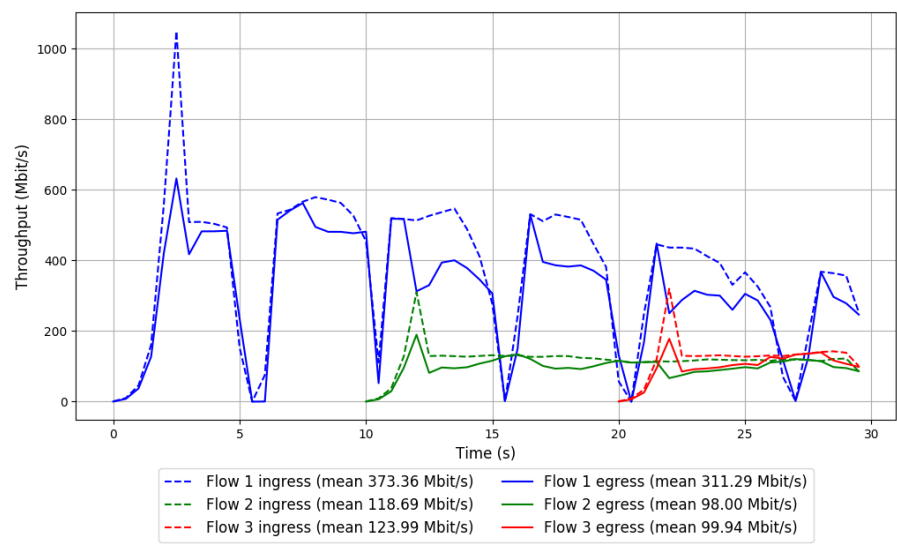
-- Flow 3:

Average throughput: 99.94 Mbit/s

95th percentile per-packet one-way delay: 88.151 ms

Loss rate: 19.41%

Run 8: Report of PCC — Data Link

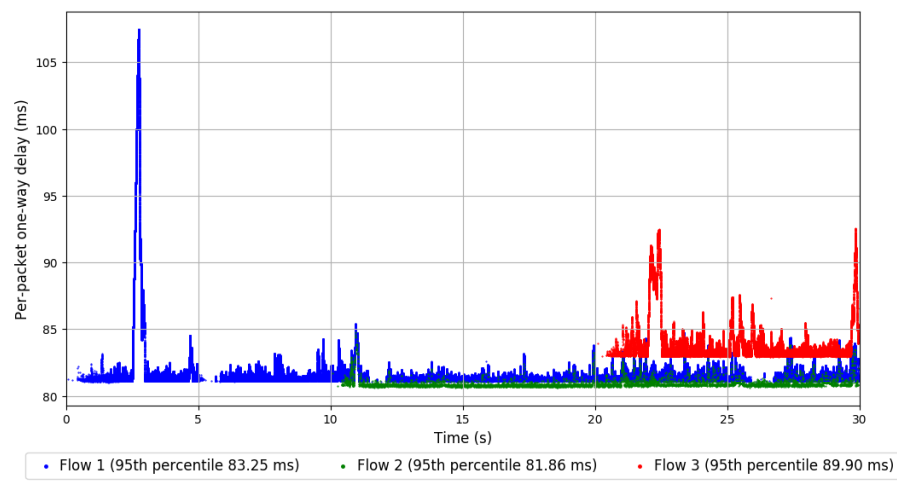
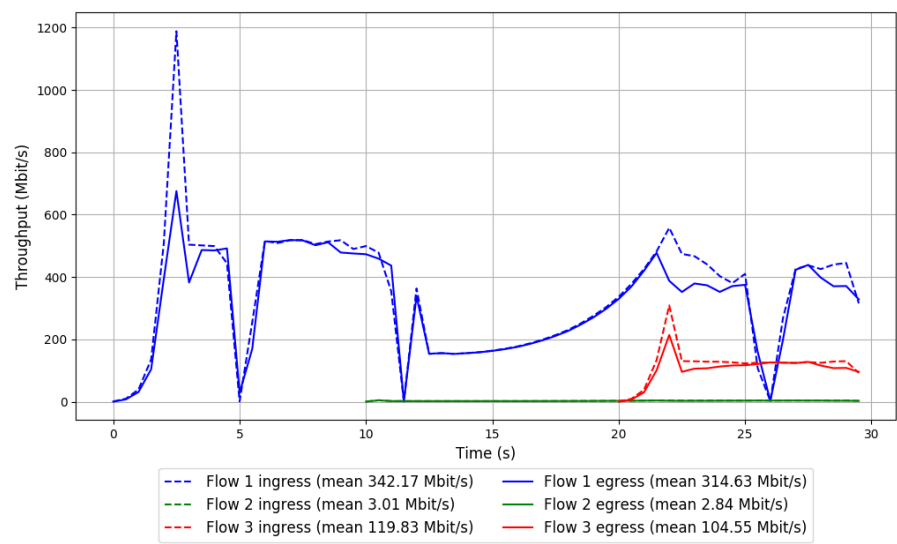


Run 9: Statistics of PCC

Start at: 2017-12-01 00:08:09
End at: 2017-12-01 00:08:39
Local clock offset: -0.216 ms
Remote clock offset: -0.703 ms

Below is generated by plot.py at 2017-12-01 01:40:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.96 Mbit/s
95th percentile per-packet one-way delay: 84.428 ms
Loss rate: 8.51%
-- Flow 1:
Average throughput: 314.63 Mbit/s
95th percentile per-packet one-way delay: 83.252 ms
Loss rate: 8.05%
-- Flow 2:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 81.856 ms
Loss rate: 5.52%
-- Flow 3:
Average throughput: 104.55 Mbit/s
95th percentile per-packet one-way delay: 89.898 ms
Loss rate: 12.73%

Run 9: Report of PCC — Data Link

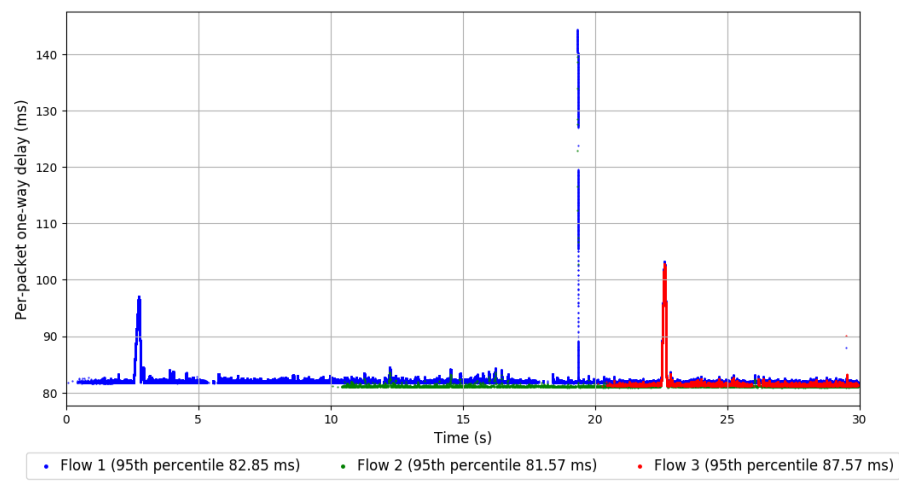
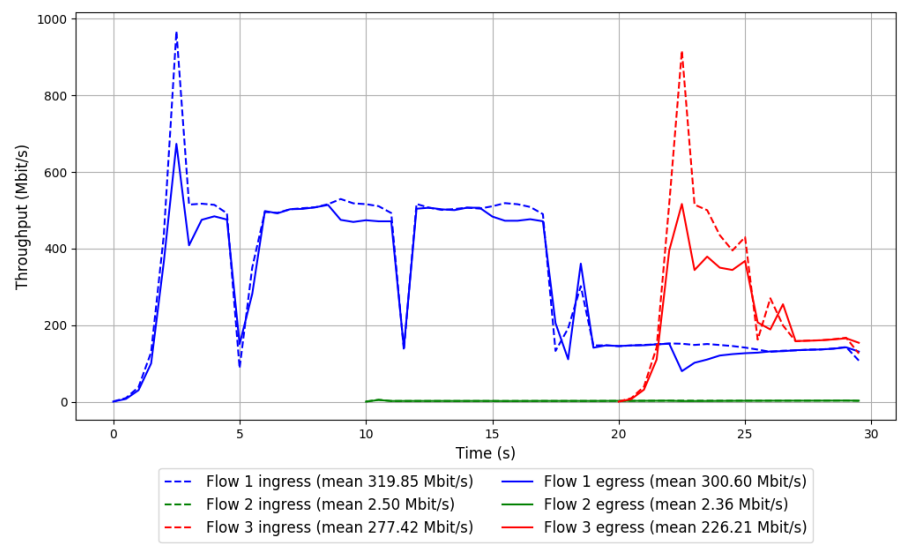


Run 10: Statistics of PCC

Start at: 2017-12-01 00:28:15
End at: 2017-12-01 00:28:45
Local clock offset: -0.178 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.79 Mbit/s
95th percentile per-packet one-way delay: 82.923 ms
Loss rate: 8.77%
-- Flow 1:
Average throughput: 300.60 Mbit/s
95th percentile per-packet one-way delay: 82.851 ms
Loss rate: 6.02%
-- Flow 2:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 81.574 ms
Loss rate: 5.55%
-- Flow 3:
Average throughput: 226.21 Mbit/s
95th percentile per-packet one-way delay: 87.567 ms
Loss rate: 18.46%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

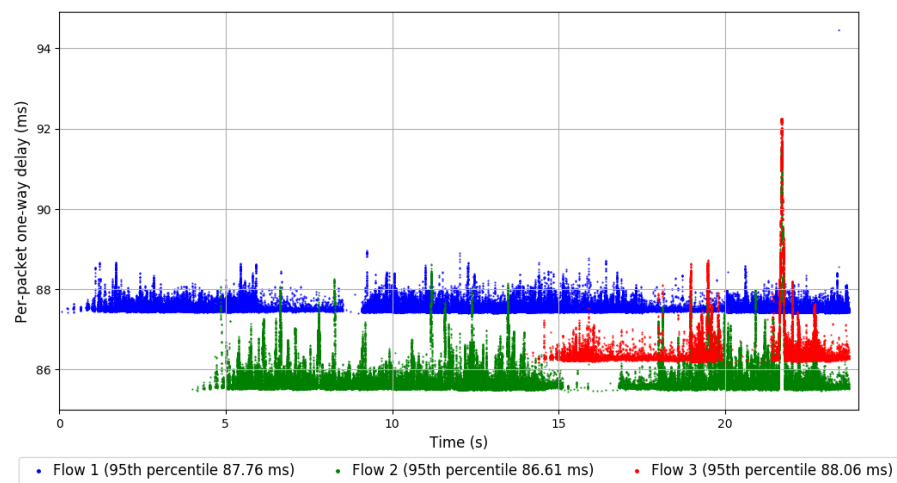
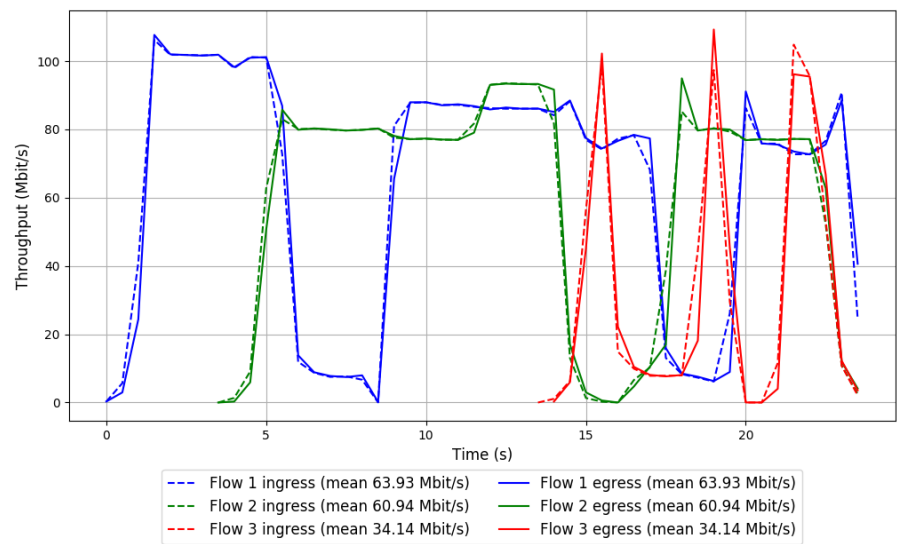
Start at: 2017-11-30 21:21:50

End at: 2017-11-30 21:22:20

Local clock offset: 0.392 ms

Remote clock offset: 1.474 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

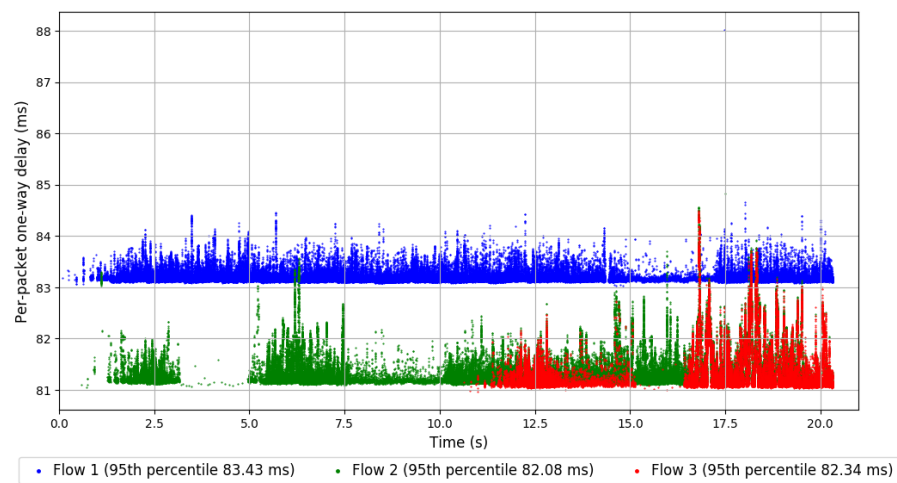
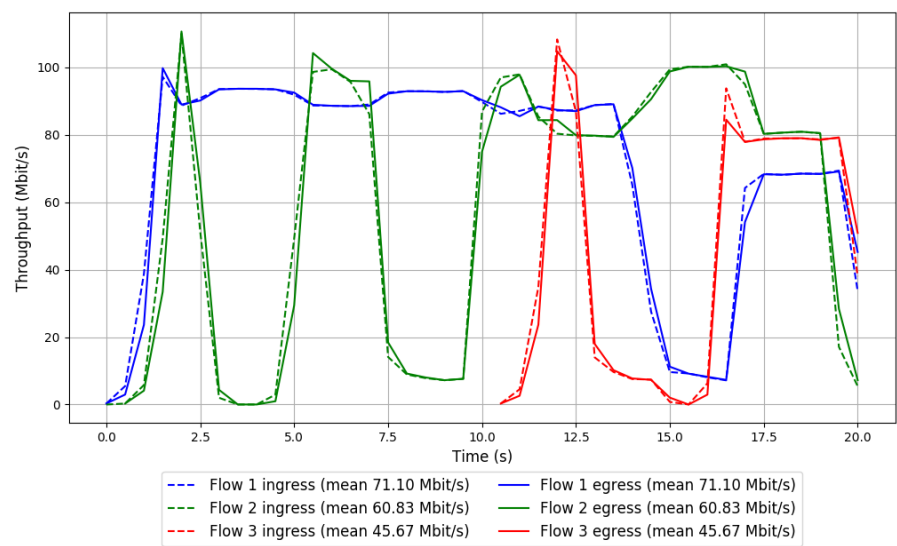
Start at: 2017-11-30 21:41:42

End at: 2017-11-30 21:42:13

Local clock offset: 0.273 ms

Remote clock offset: -1.496 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 22:01:43

End at: 2017-11-30 22:02:13

Local clock offset: 0.121 ms

Remote clock offset: 3.428 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.24 Mbit/s

95th percentile per-packet one-way delay: 86.121 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 86.198 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.06 Mbit/s

95th percentile per-packet one-way delay: 86.027 ms

Loss rate: 0.00%

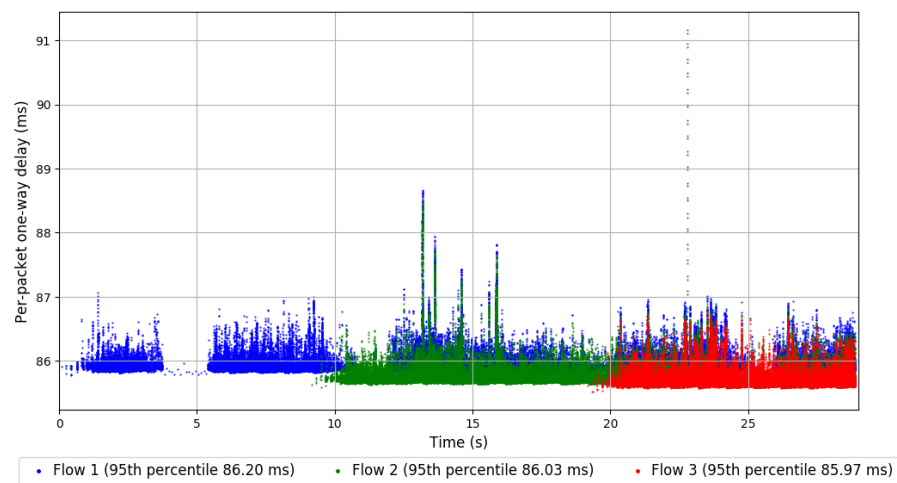
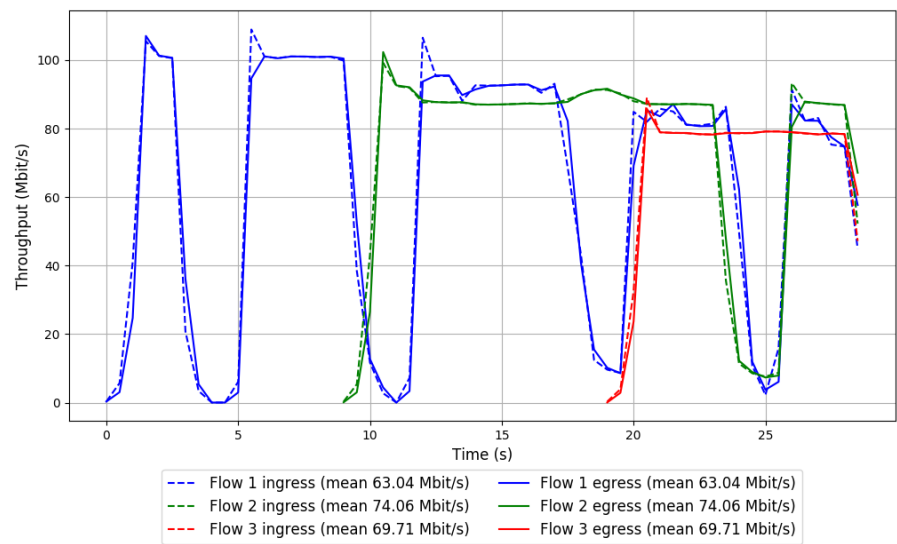
-- Flow 3:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 85.972 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

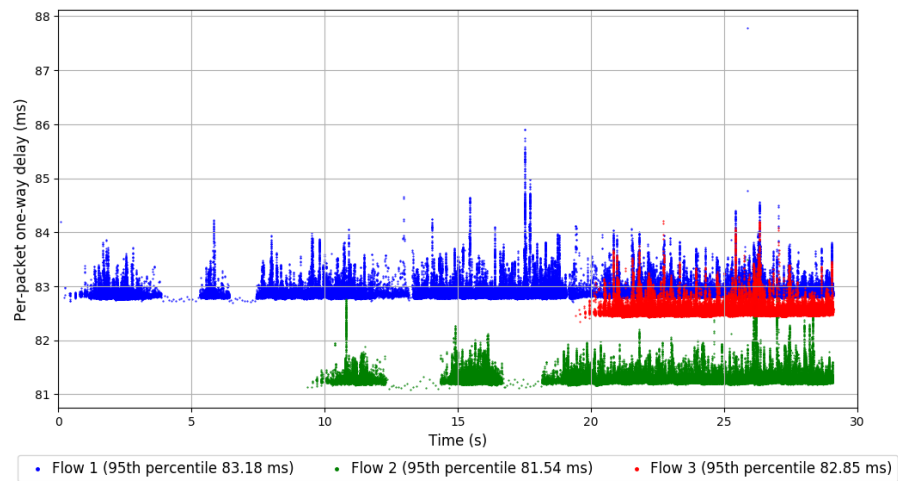
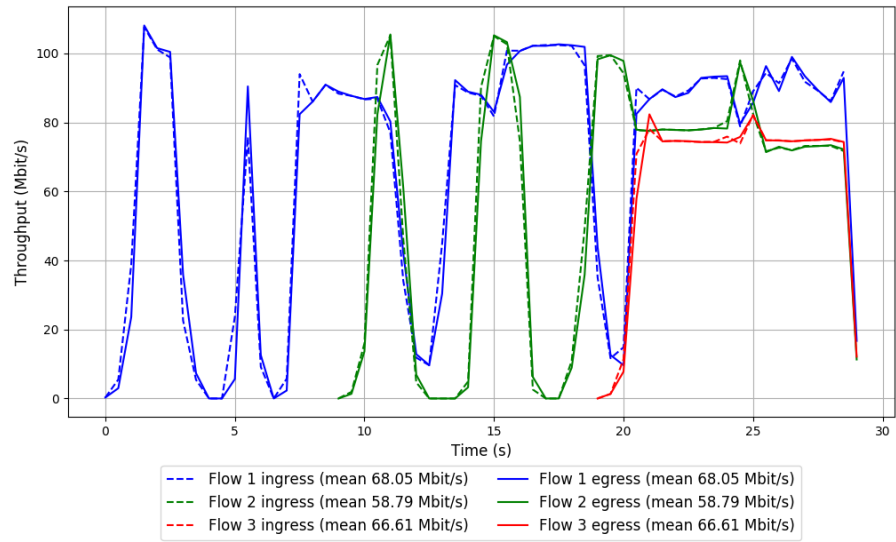


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 22:21:54
End at: 2017-11-30 22:22:24
Local clock offset: 0.013 ms
Remote clock offset: -1.882 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 130.25 Mbit/s
95th percentile per-packet one-way delay: 83.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.05 Mbit/s
95th percentile per-packet one-way delay: 83.181 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 81.541 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.61 Mbit/s
95th percentile per-packet one-way delay: 82.848 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

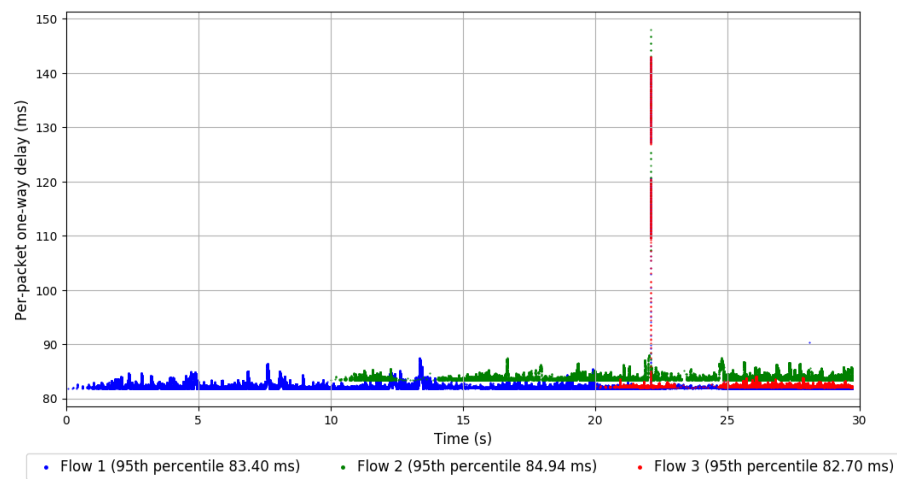
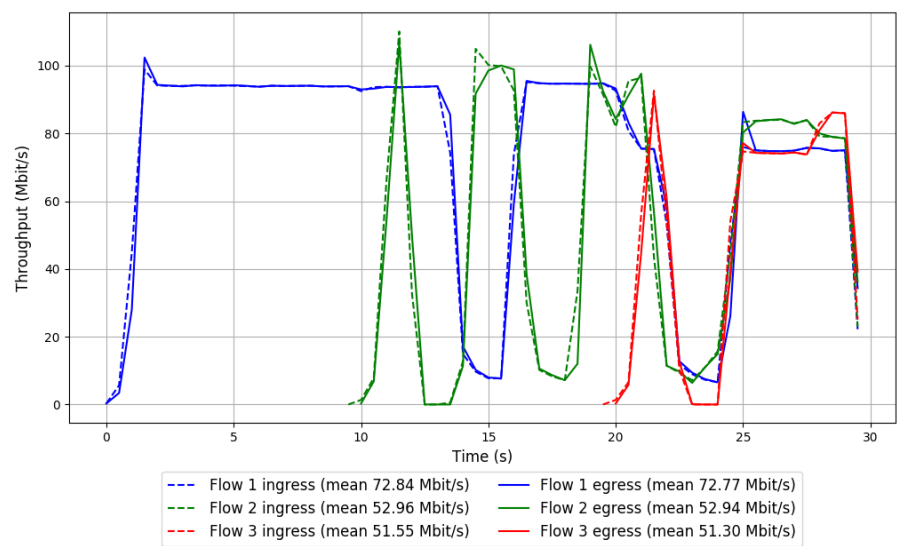


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 22:42:01
End at: 2017-11-30 22:42:31
Local clock offset: -0.154 ms
Remote clock offset: -1.881 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 124.75 Mbit/s
95th percentile per-packet one-way delay: 84.229 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 72.77 Mbit/s
95th percentile per-packet one-way delay: 83.402 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 52.94 Mbit/s
95th percentile per-packet one-way delay: 84.938 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 82.702 ms
Loss rate: 0.48%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

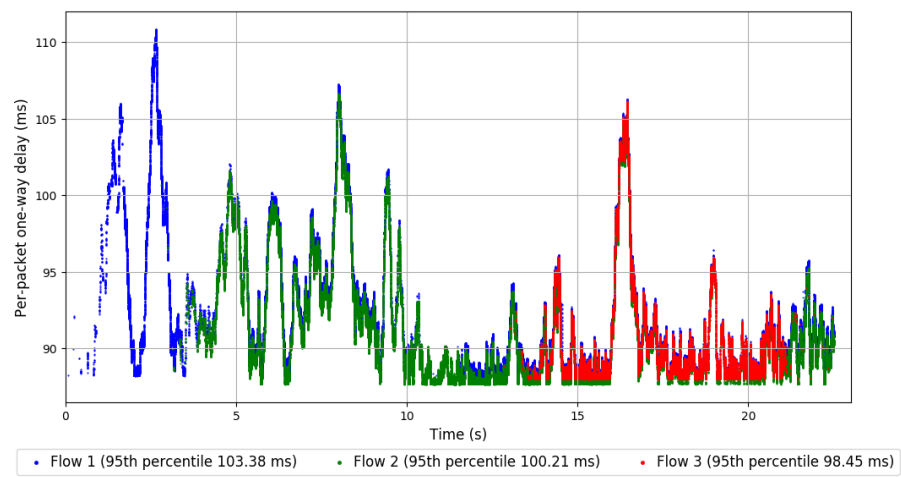
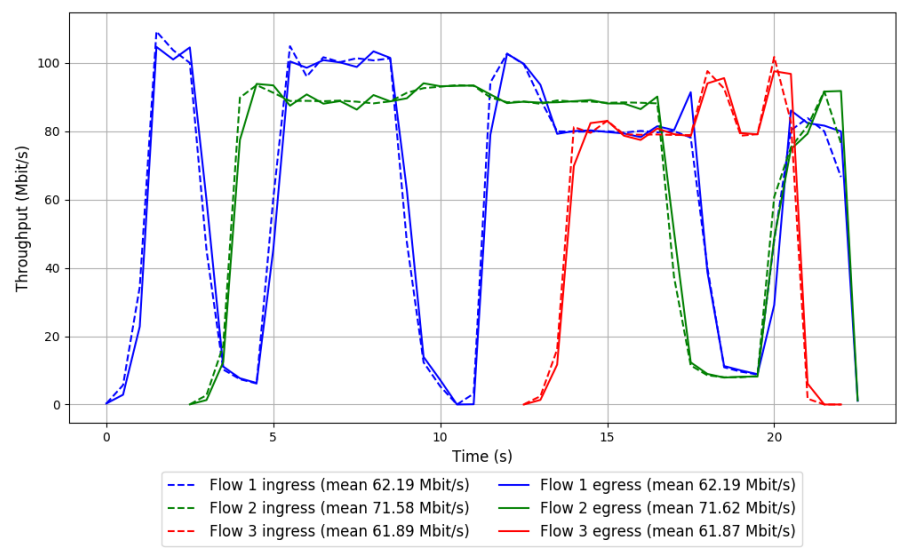
Start at: 2017-11-30 23:02:14

End at: 2017-11-30 23:02:44

Local clock offset: -0.197 ms

Remote clock offset: 3.37 ms

Run 6: Report of QUIC Cubic — Data Link

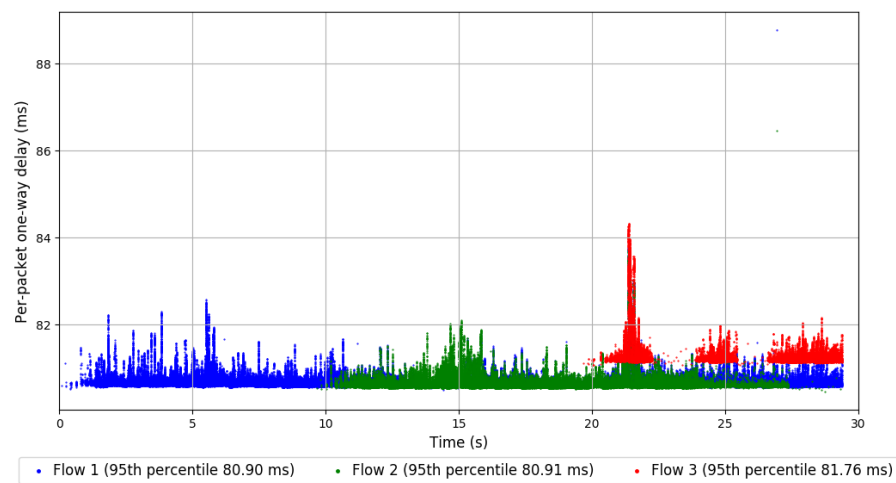
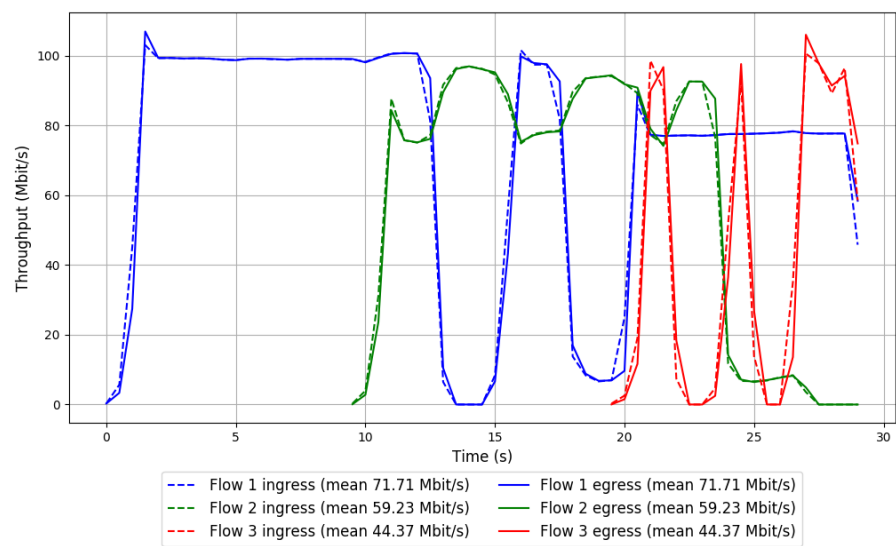


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 23:22:25
End at: 2017-11-30 23:22:55
Local clock offset: -0.194 ms
Remote clock offset: -1.405 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.10 Mbit/s
95th percentile per-packet one-way delay: 81.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 80.896 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.23 Mbit/s
95th percentile per-packet one-way delay: 80.911 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.37 Mbit/s
95th percentile per-packet one-way delay: 81.761 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 23:42:27

End at: 2017-11-30 23:42:57

Local clock offset: -0.278 ms

Remote clock offset: 3.46 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.70 Mbit/s

95th percentile per-packet one-way delay: 88.026 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.60 Mbit/s

95th percentile per-packet one-way delay: 88.269 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.93 Mbit/s

95th percentile per-packet one-way delay: 85.673 ms

Loss rate: 0.00%

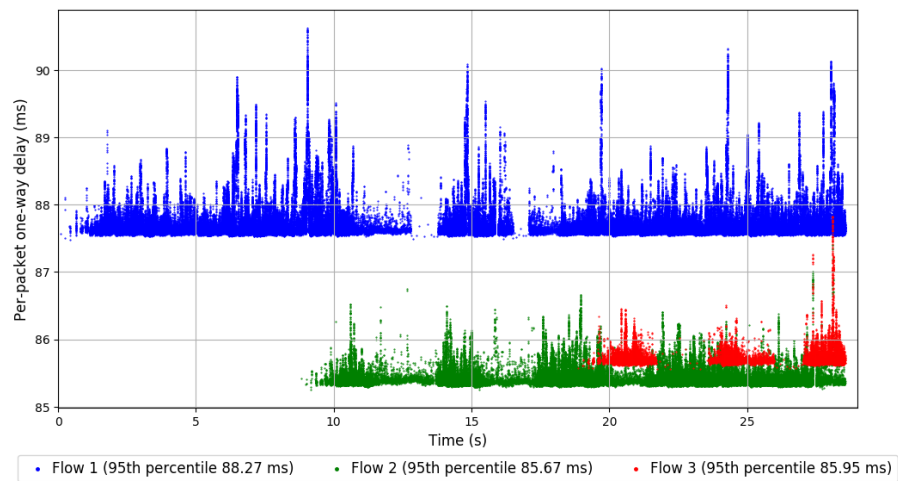
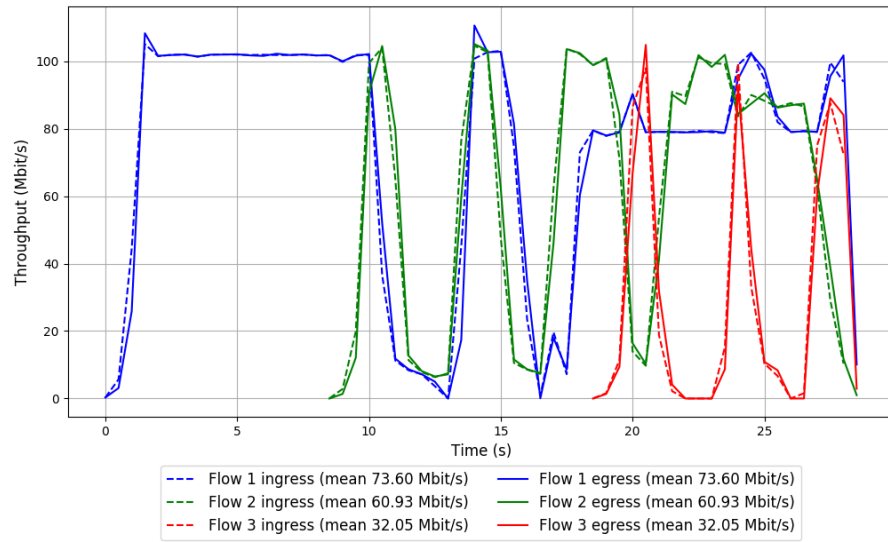
-- Flow 3:

Average throughput: 32.05 Mbit/s

95th percentile per-packet one-way delay: 85.947 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

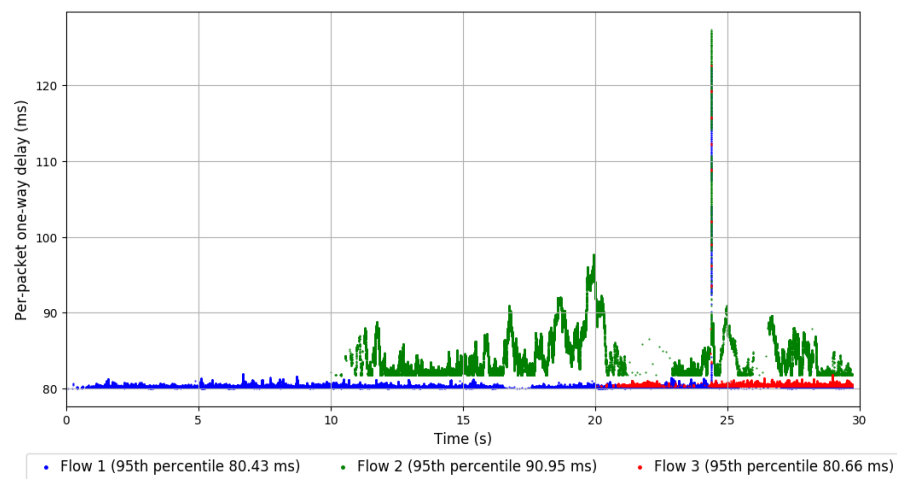
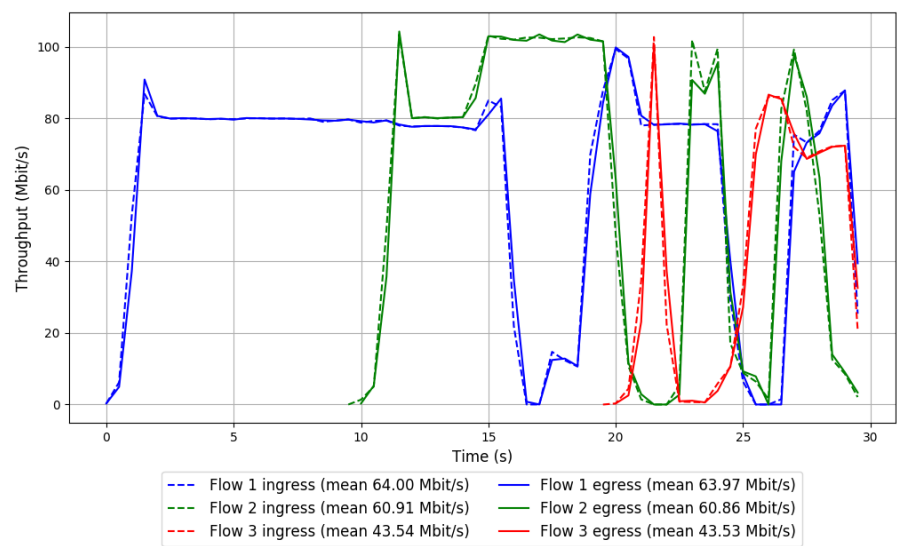


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-01 00:02:34
End at: 2017-12-01 00:03:04
Local clock offset: -0.208 ms
Remote clock offset: -1.677 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.61 Mbit/s
95th percentile per-packet one-way delay: 87.414 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 80.434 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 60.86 Mbit/s
95th percentile per-packet one-way delay: 90.950 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 80.655 ms
Loss rate: 0.03%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-01 00:22:40

End at: 2017-12-01 00:23:10

Local clock offset: -0.241 ms

Remote clock offset: 4.217 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.38 Mbit/s

95th percentile per-packet one-way delay: 86.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 86.780 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 86.544 ms

Loss rate: 0.00%

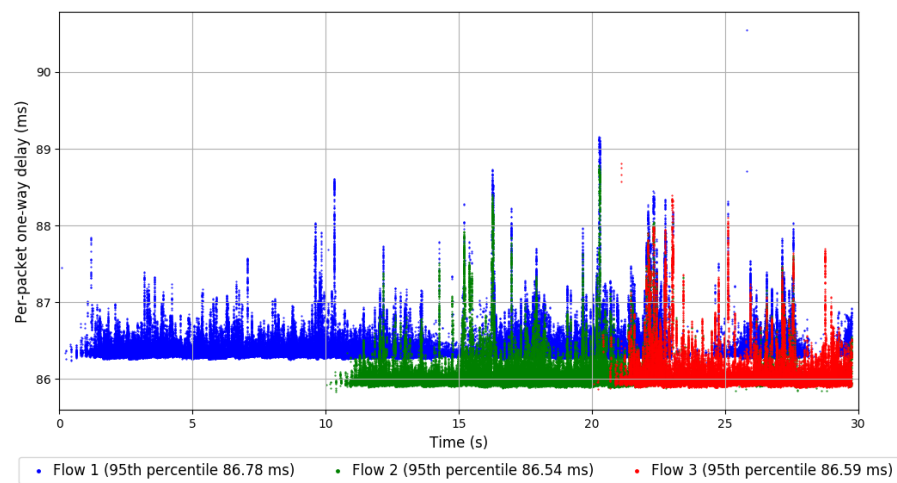
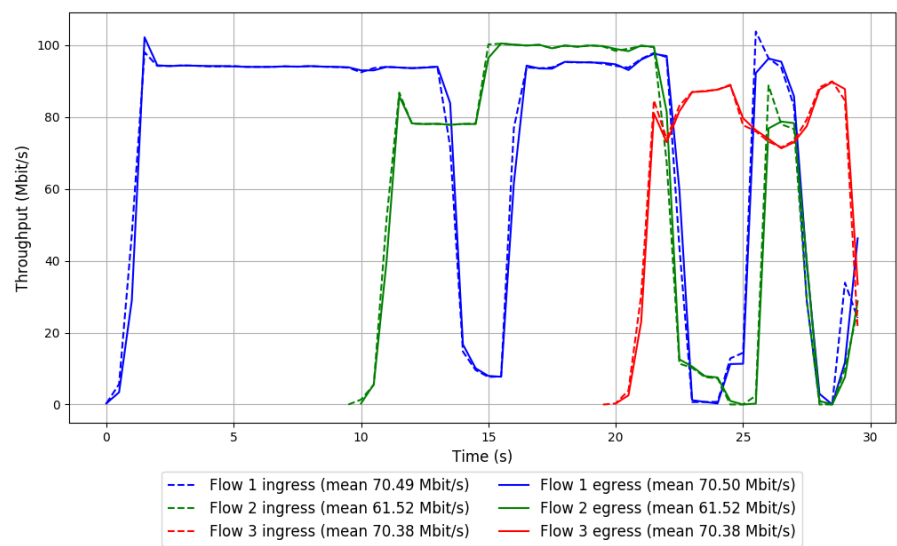
-- Flow 3:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 86.595 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

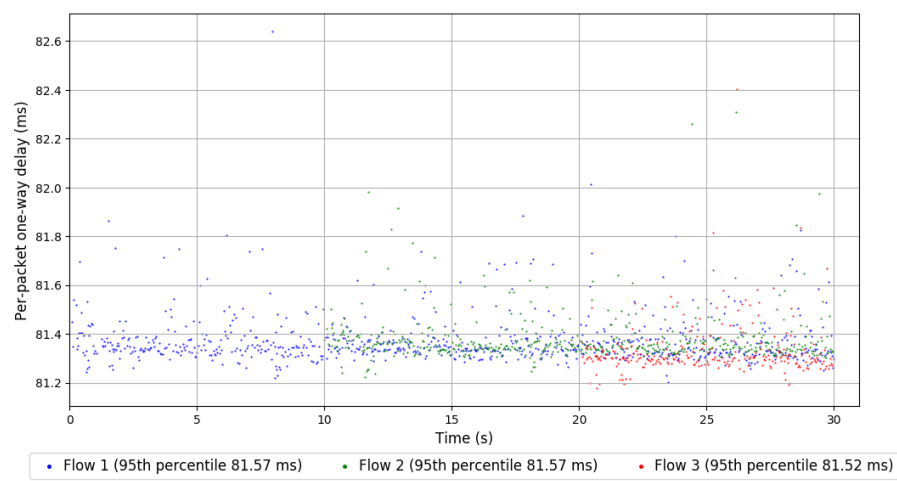
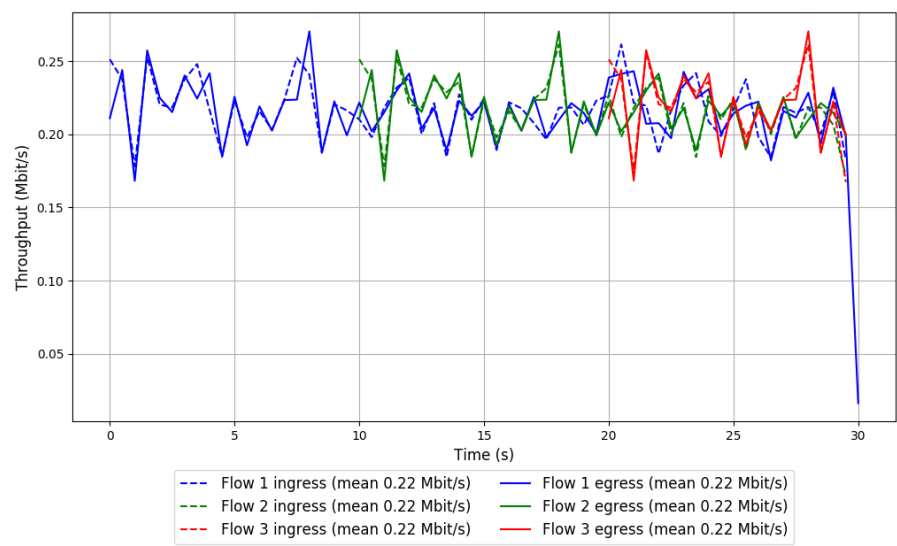


```
Run 1: Statistics of SReAM

Start at: 2017-11-30 21:15:03
End at: 2017-11-30 21:15:33
Local clock offset: 0.434 ms
Remote clock offset: -4.707 ms

# Below is generated by plot.py at 2017-12-01 01:40:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.518 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2017-11-30 21:34:57

End at: 2017-11-30 21:35:27

Local clock offset: 0.211 ms

Remote clock offset: 4.036 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 89.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.153 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

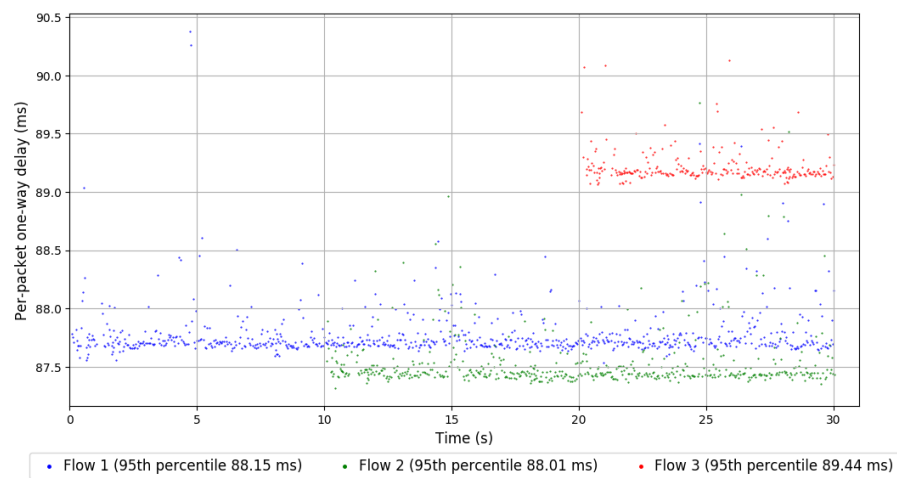
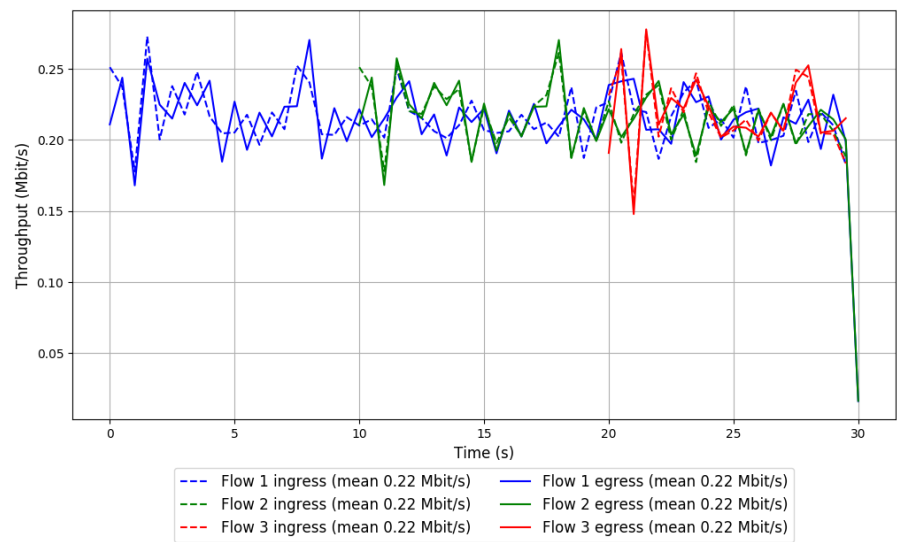
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.442 ms

Loss rate: 0.00%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-30 21:54:56

End at: 2017-11-30 21:55:26

Local clock offset: 0.154 ms

Remote clock offset: 4.914 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 89.762 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.203 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.364 ms

Loss rate: 0.00%

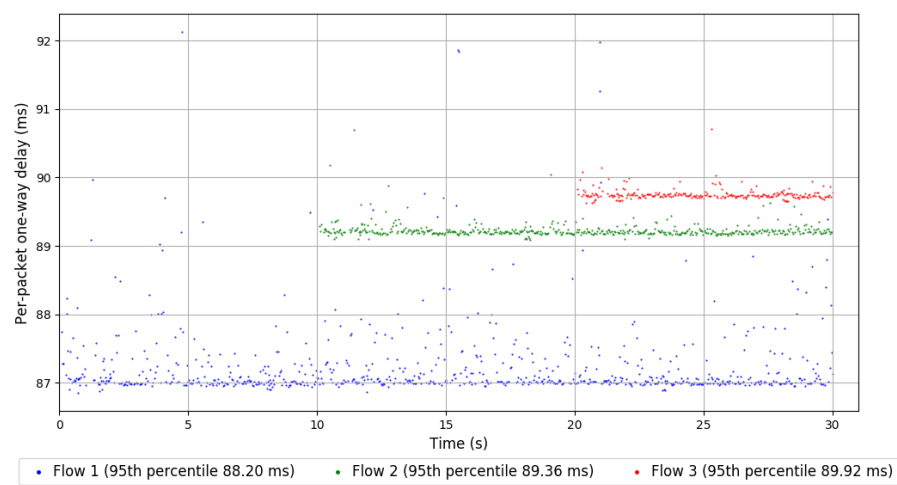
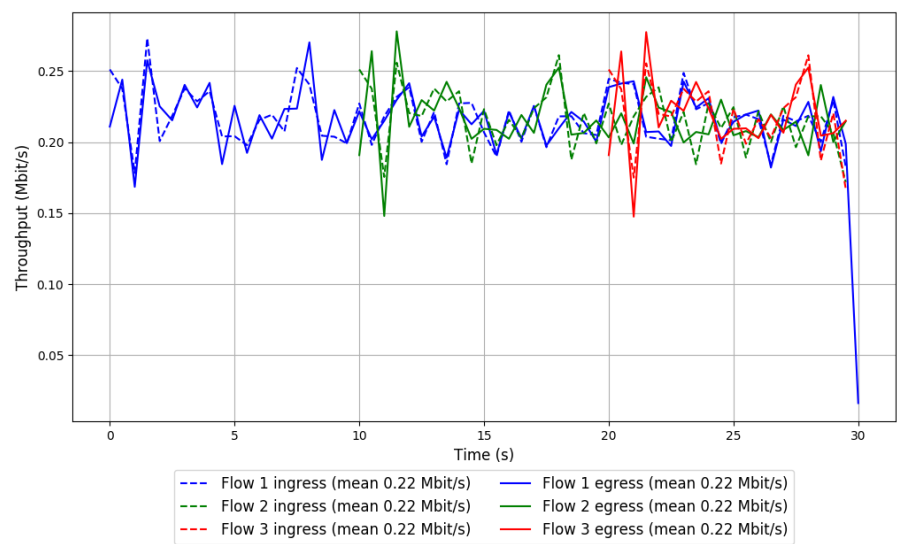
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.921 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

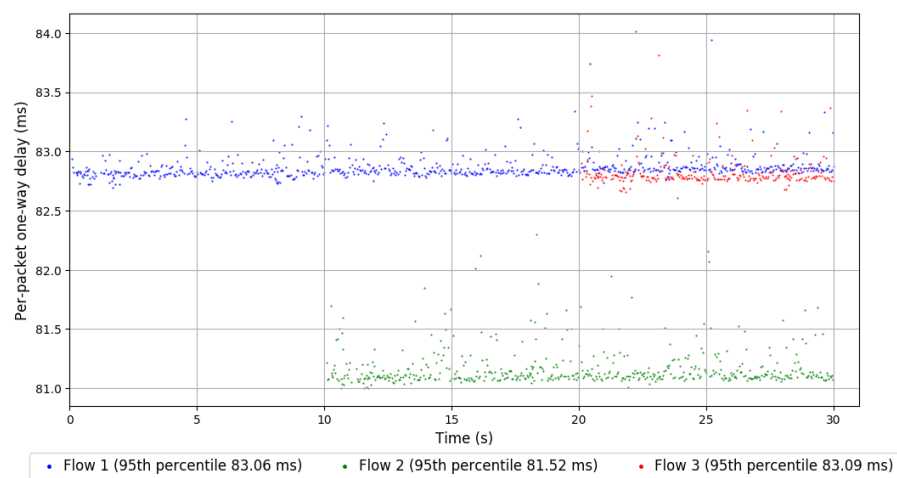
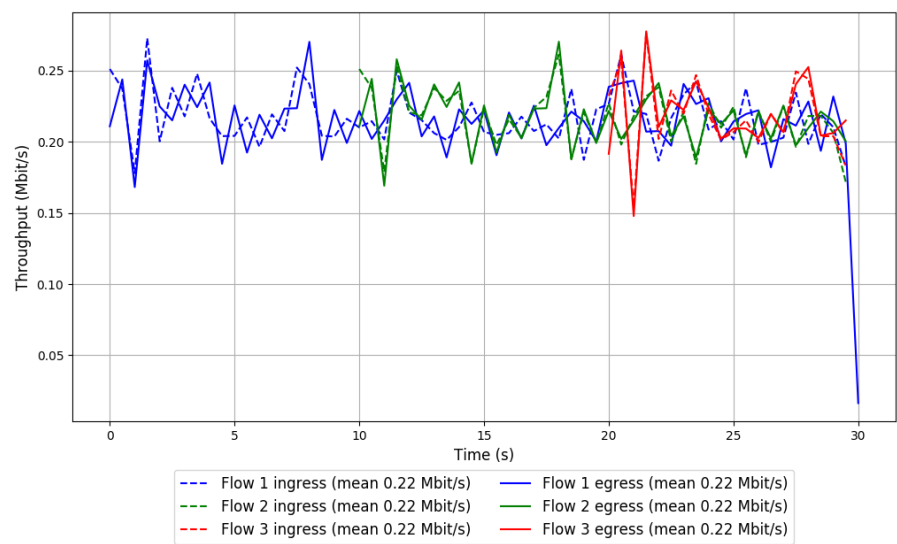


Run 4: Statistics of SReAM

Start at: 2017-11-30 22:15:04
End at: 2017-11-30 22:15:34
Local clock offset: 0.047 ms
Remote clock offset: -1.491 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.055 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.524 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.095 ms
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link

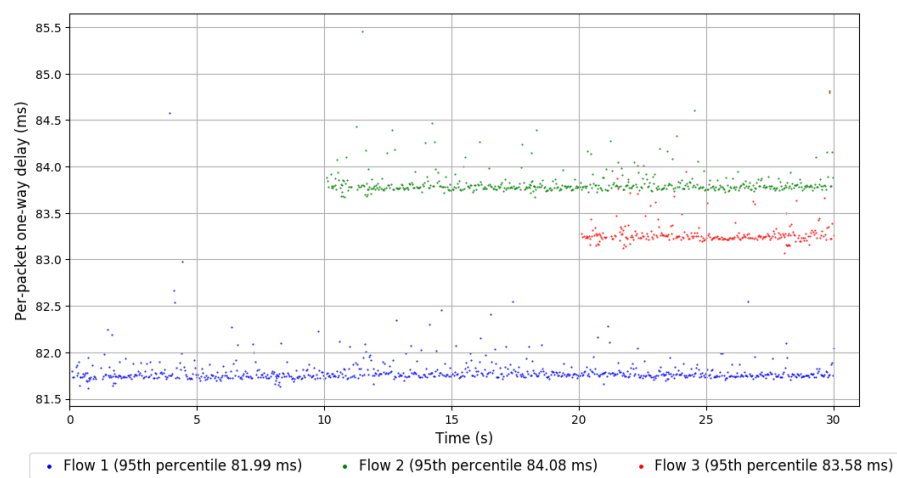
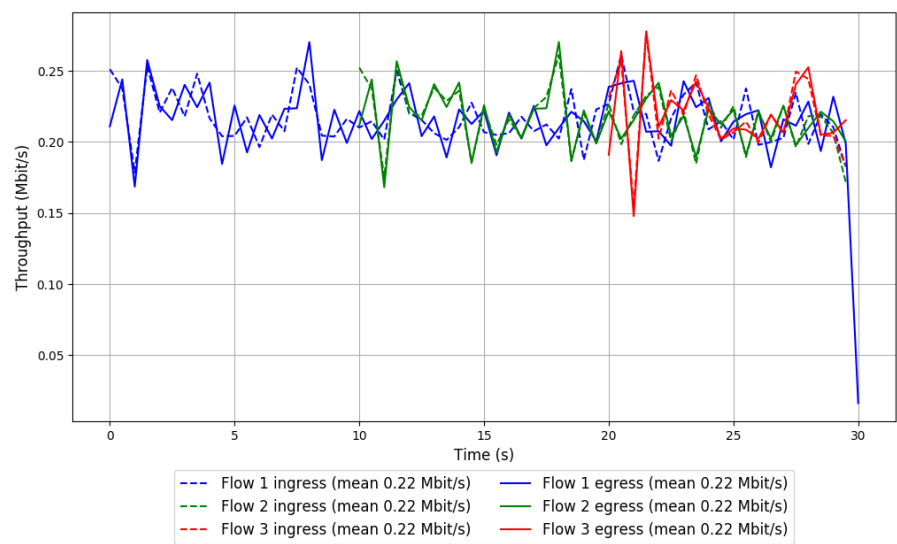


Run 5: Statistics of SReAM

Start at: 2017-11-30 22:35:04
End at: 2017-11-30 22:35:34
Local clock offset: -0.084 ms
Remote clock offset: -1.768 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.082 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.582 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-11-30 22:55:24

End at: 2017-11-30 22:55:54

Local clock offset: -0.114 ms

Remote clock offset: 2.831 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 88.062 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.278 ms

Loss rate: 0.00%

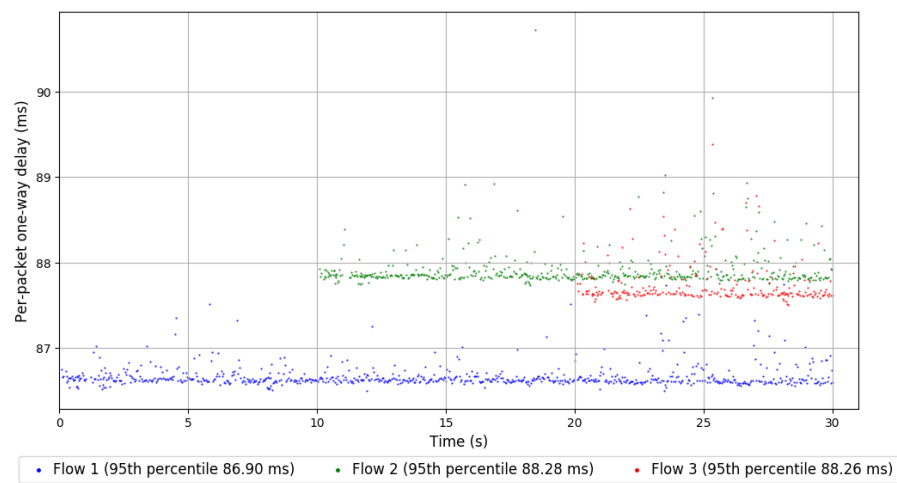
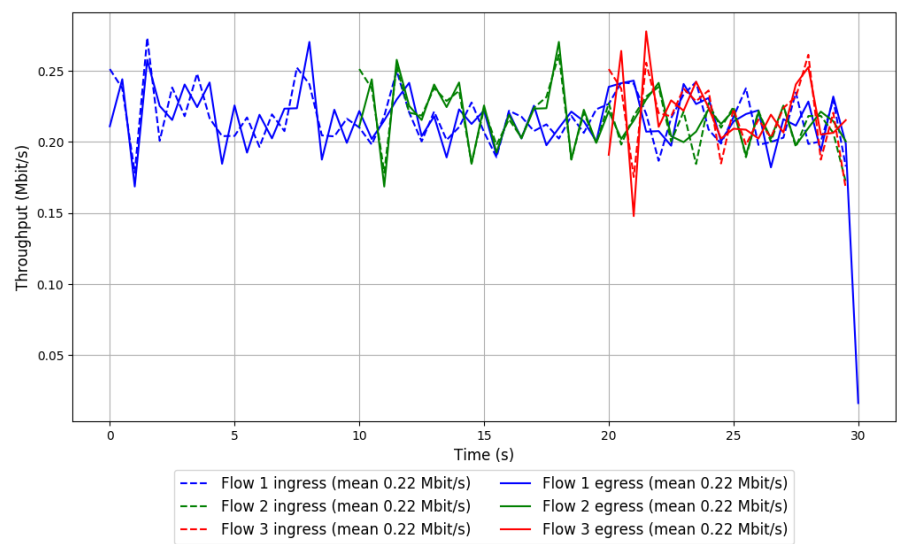
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.257 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

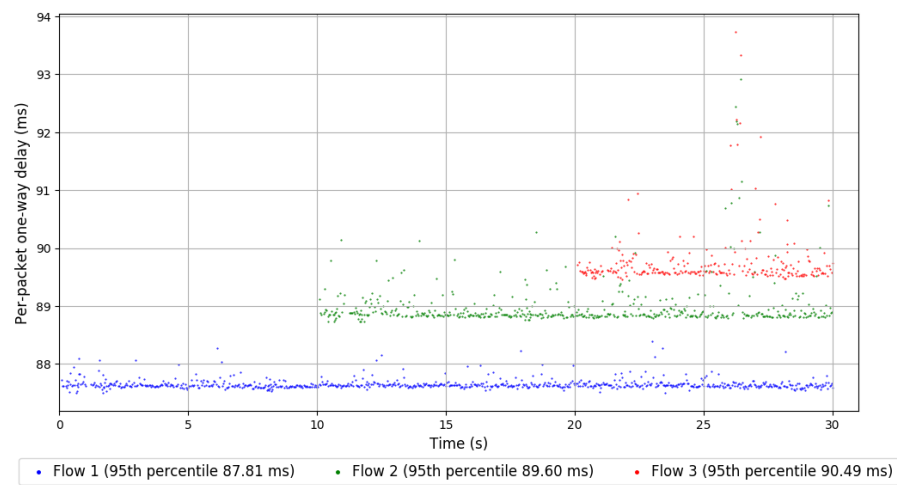
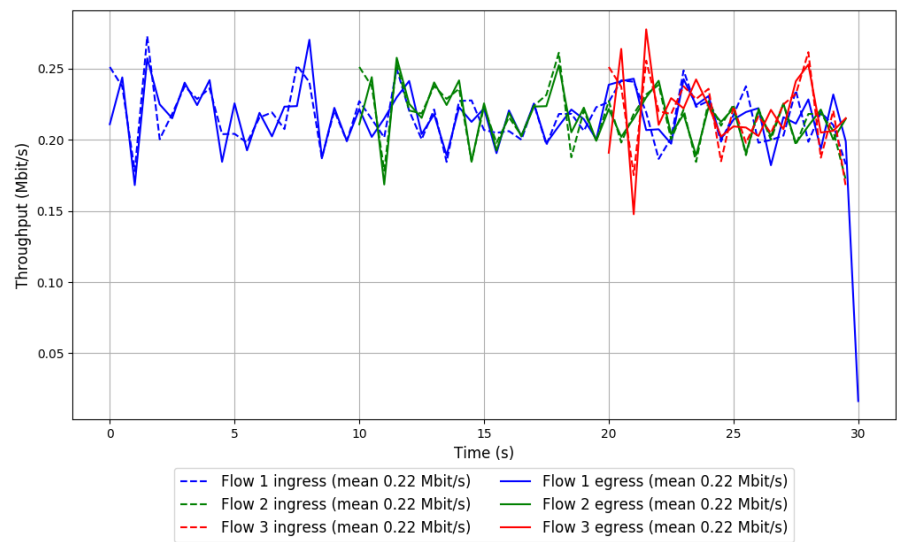


Run 7: Statistics of SReAM

Start at: 2017-11-30 23:15:34
End at: 2017-11-30 23:16:04
Local clock offset: -0.238 ms
Remote clock offset: 5.157 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 89.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.808 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.599 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.493 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-30 23:35:38

End at: 2017-11-30 23:36:08

Local clock offset: -0.29 ms

Remote clock offset: 3.871 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 91.205 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.319 ms

Loss rate: 0.00%

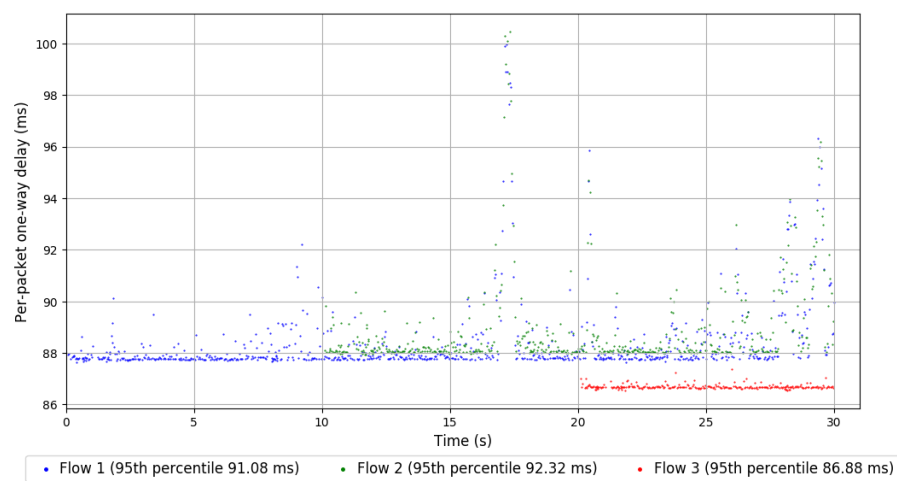
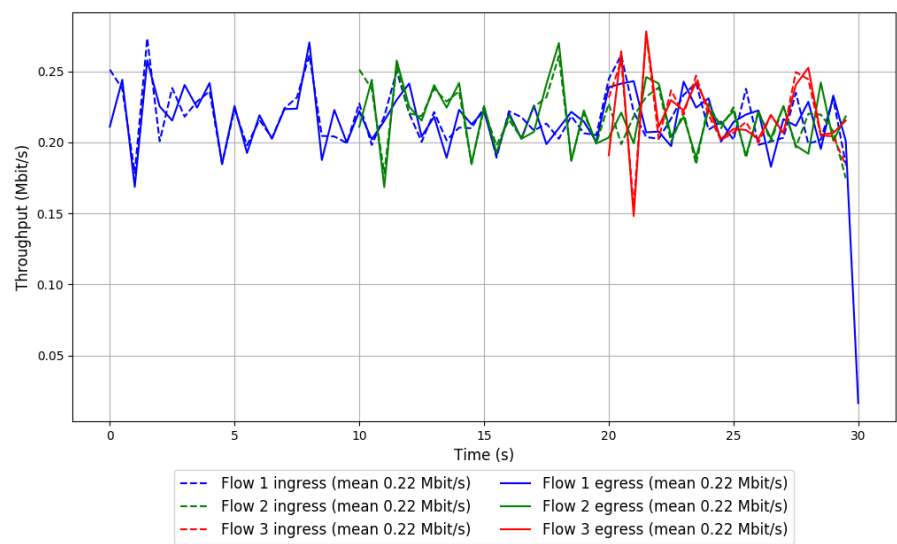
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.878 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

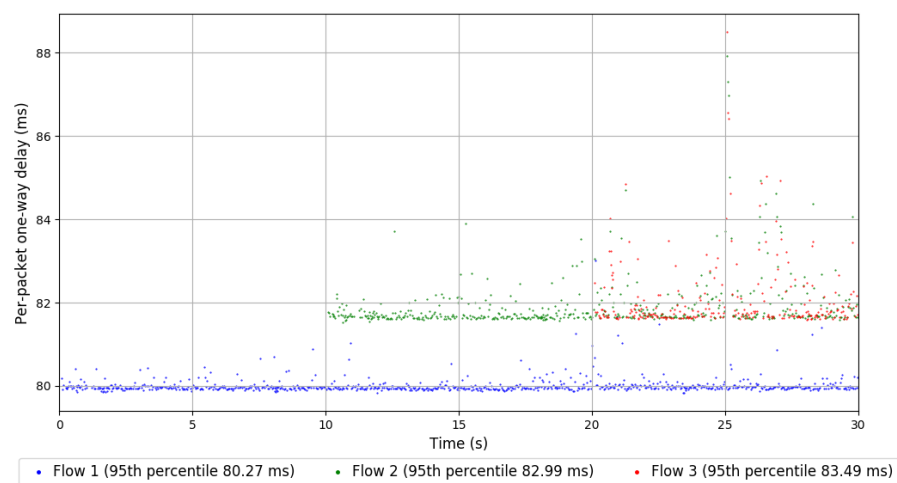
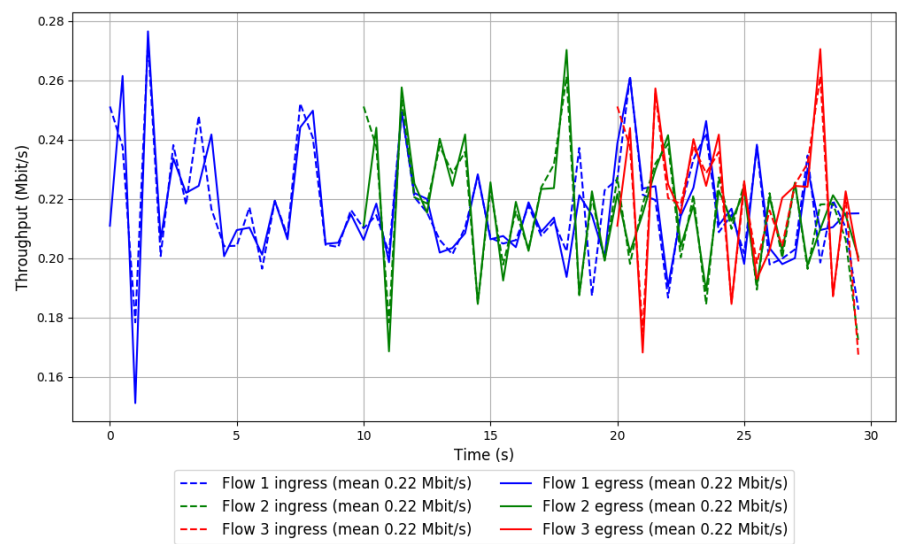


Run 9: Statistics of SReAM

Start at: 2017-11-30 23:55:38
End at: 2017-11-30 23:56:08
Local clock offset: -0.21 ms
Remote clock offset: -1.994 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.272 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.487 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

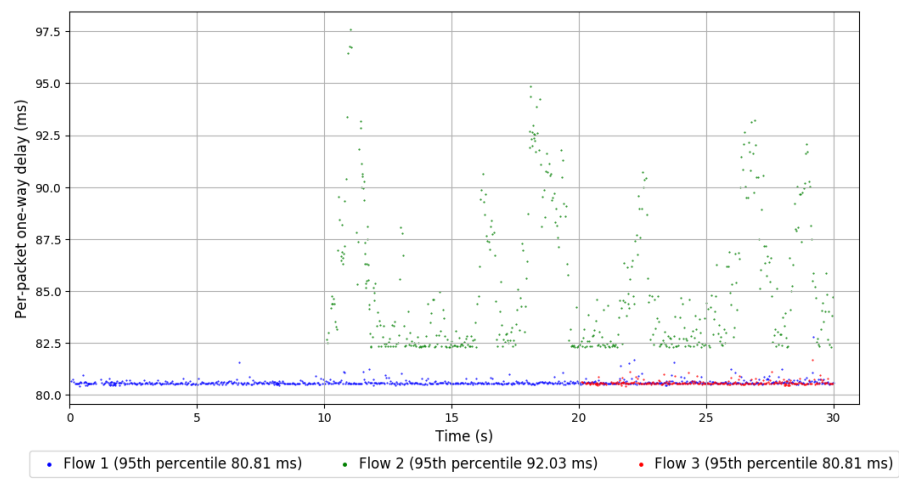
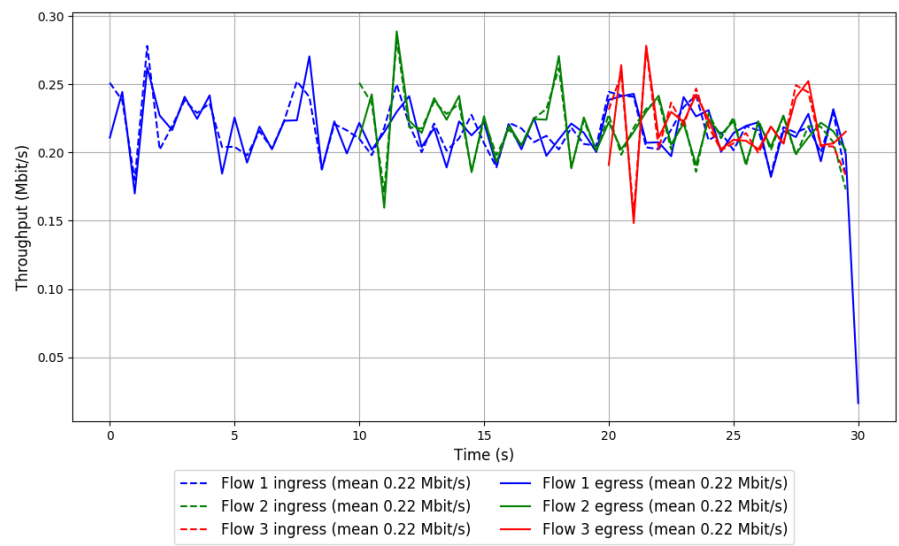


Run 10: Statistics of SReAM

Start at: 2017-12-01 00:15:47
End at: 2017-12-01 00:16:17
Local clock offset: -0.271 ms
Remote clock offset: -1.445 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 89.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.805 ms
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-11-30 21:26:11

End at: 2017-11-30 21:26:41

Local clock offset: 0.355 ms

Remote clock offset: 2.156 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 87.969 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 87.051 ms

Loss rate: 0.00%

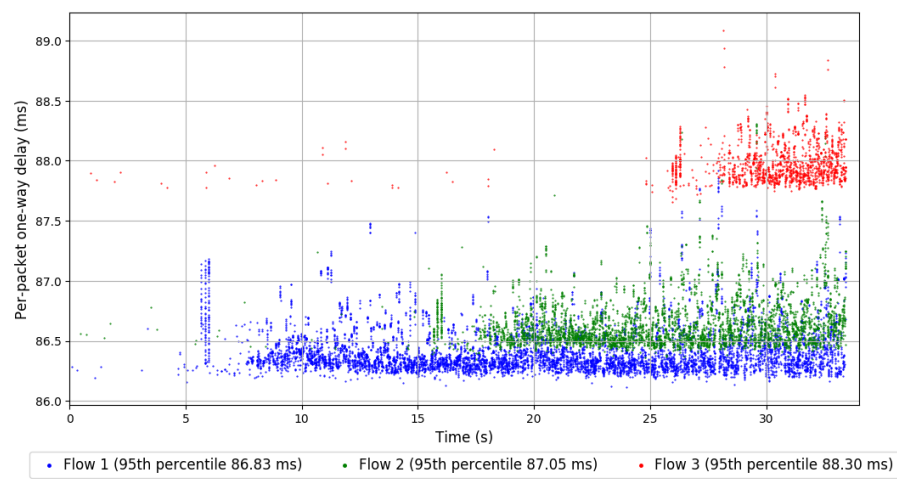
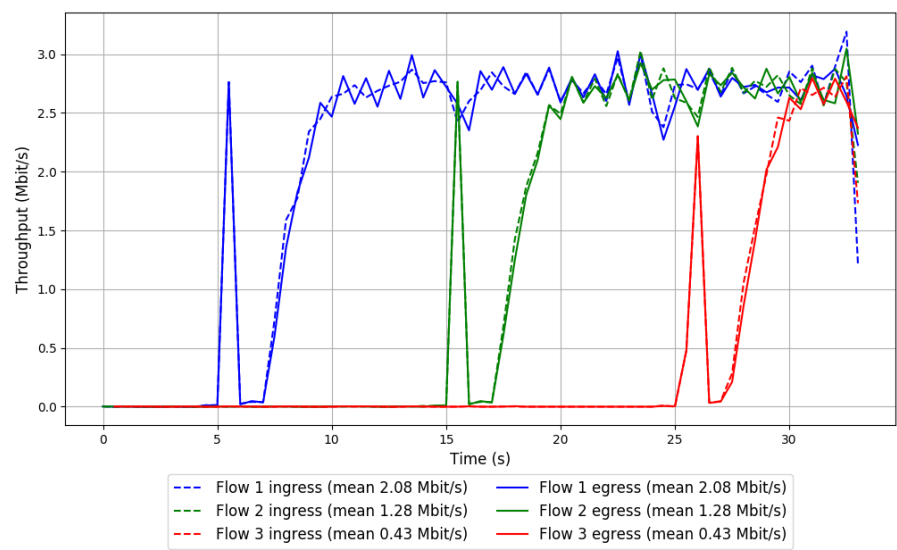
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 88.296 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

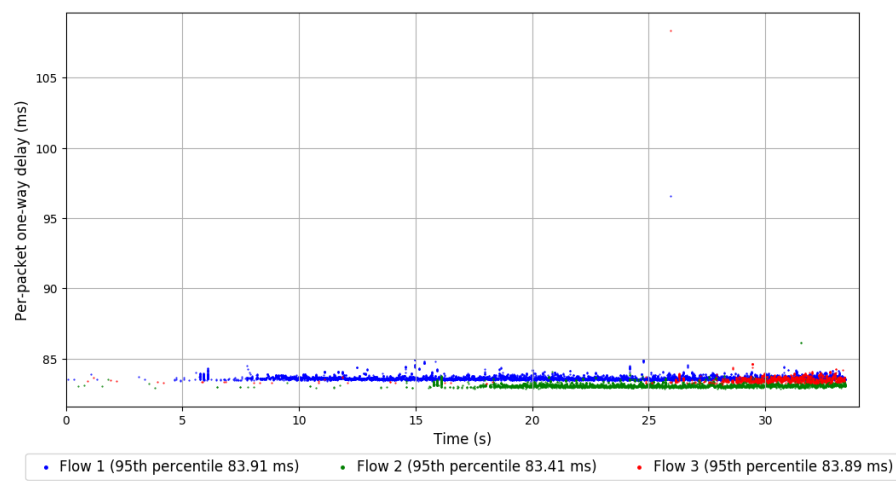
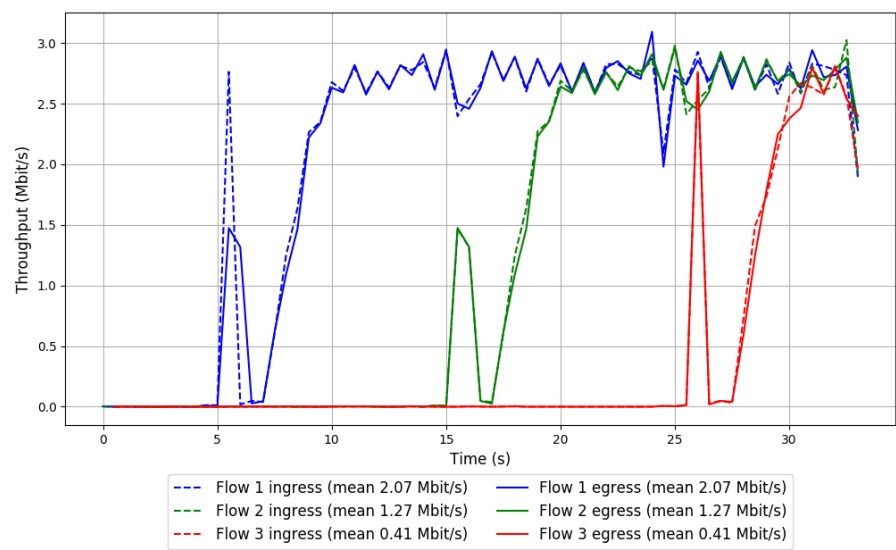


Run 2: Statistics of WebRTC media

Start at: 2017-11-30 21:46:03
End at: 2017-11-30 21:46:33
Local clock offset: 0.157 ms
Remote clock offset: -0.968 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 83.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 83.905 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 83.407 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 83.887 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

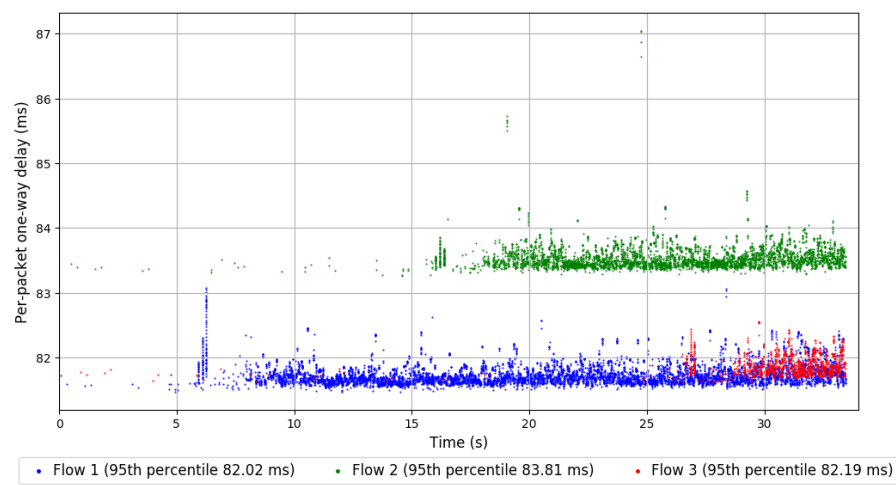
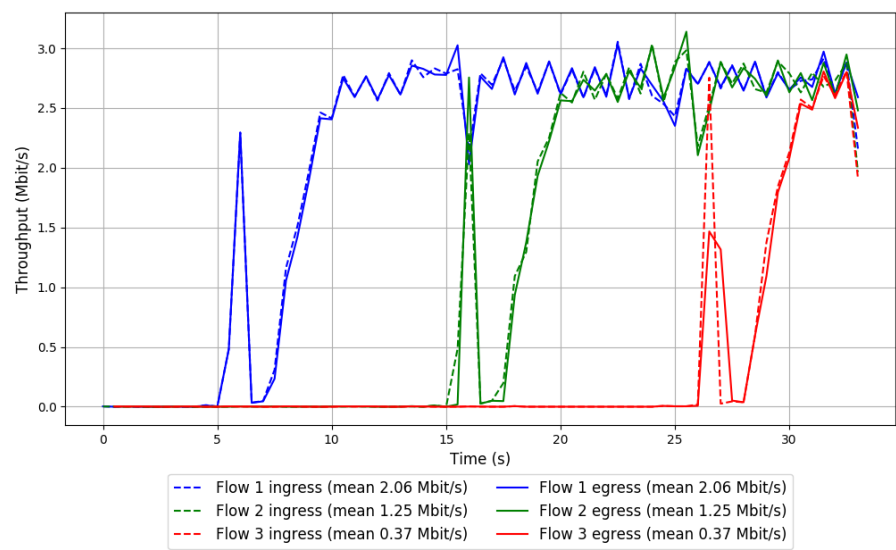


Run 3: Statistics of WebRTC media

Start at: 2017-11-30 22:06:05
End at: 2017-11-30 22:06:35
Local clock offset: 0.088 ms
Remote clock offset: -0.857 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 83.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 82.022 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 83.815 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 82.193 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 22:26:15

End at: 2017-11-30 22:26:45

Local clock offset: -0.006 ms

Remote clock offset: 1.888 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 87.364 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 87.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 87.398 ms

Loss rate: 0.00%

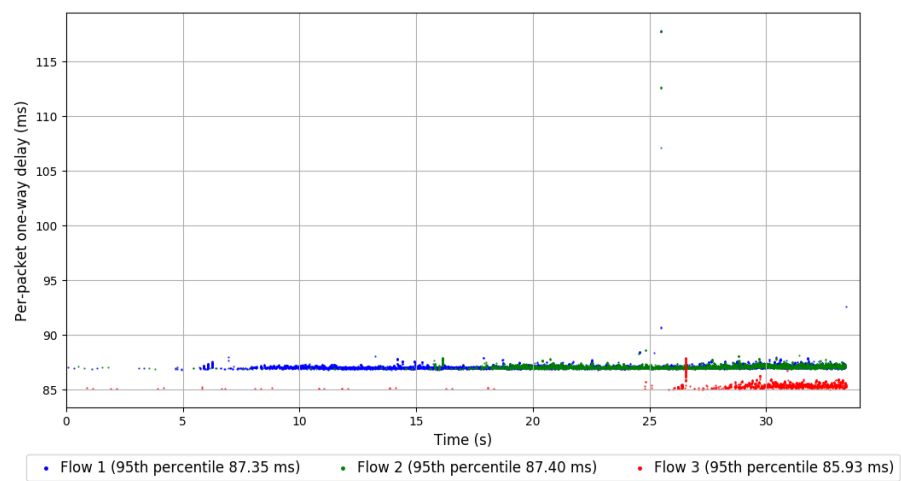
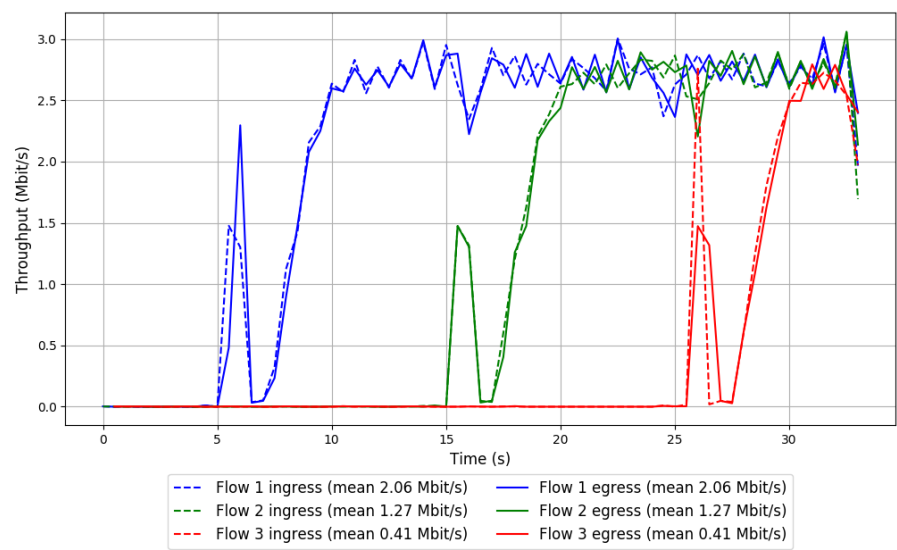
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 85.932 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 22:46:23

End at: 2017-11-30 22:46:53

Local clock offset: -0.088 ms

Remote clock offset: 1.599 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 87.881 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 85.614 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 0.00%

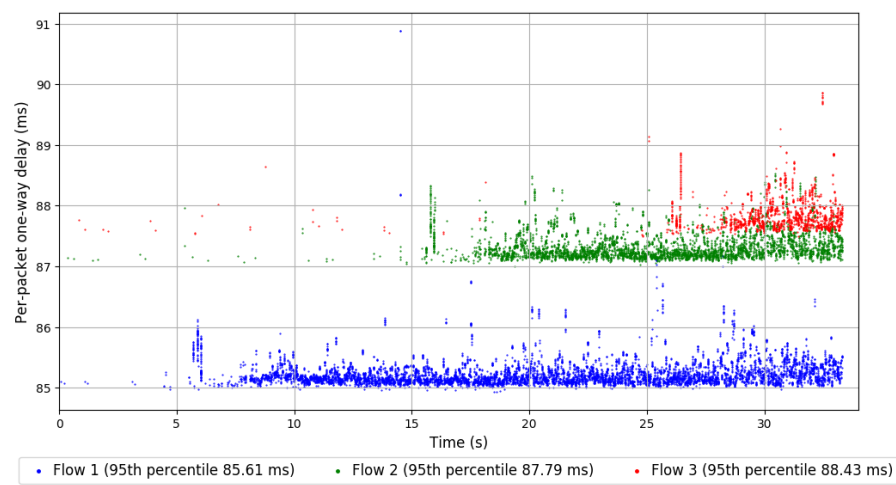
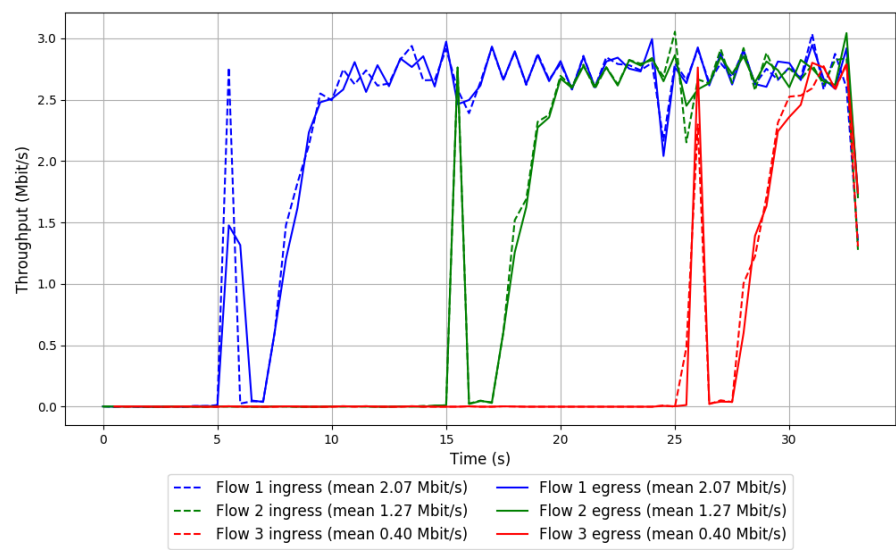
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 88.430 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

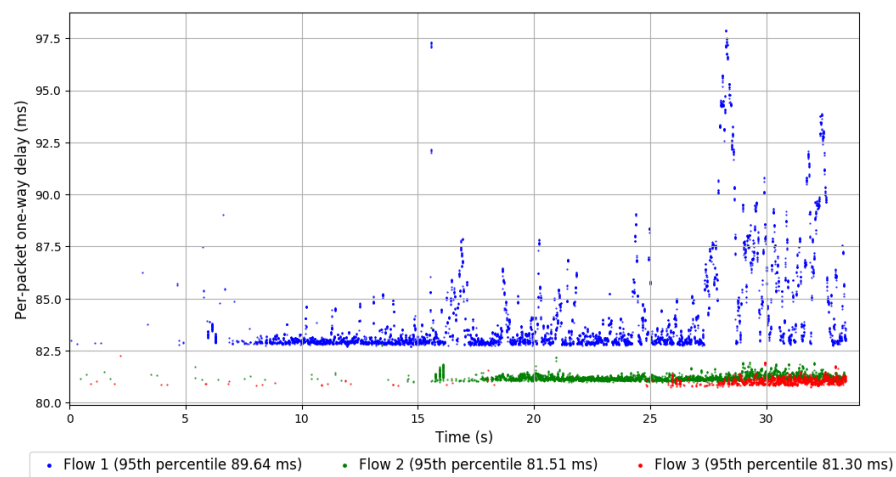
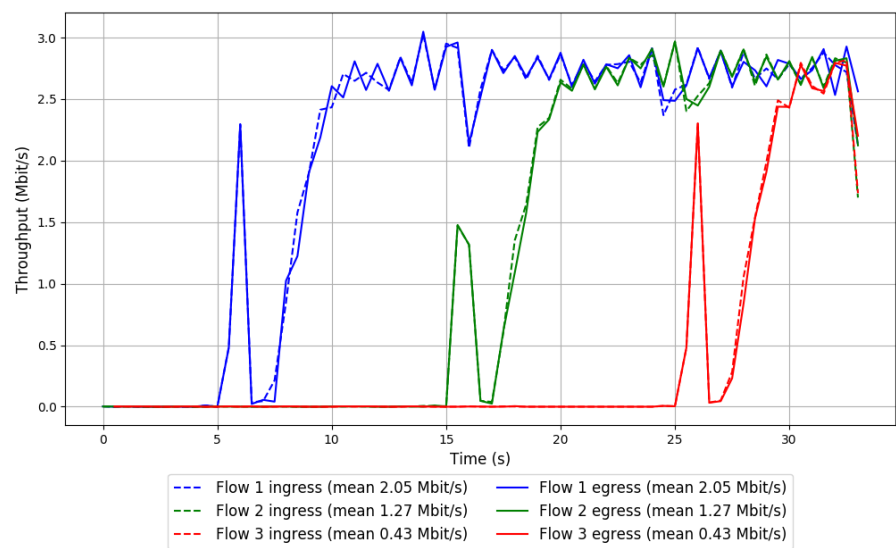


Run 6: Statistics of WebRTC media

Start at: 2017-11-30 23:06:40
End at: 2017-11-30 23:07:10
Local clock offset: -0.217 ms
Remote clock offset: -1.752 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 87.702 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 89.641 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 81.509 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.303 ms
Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link

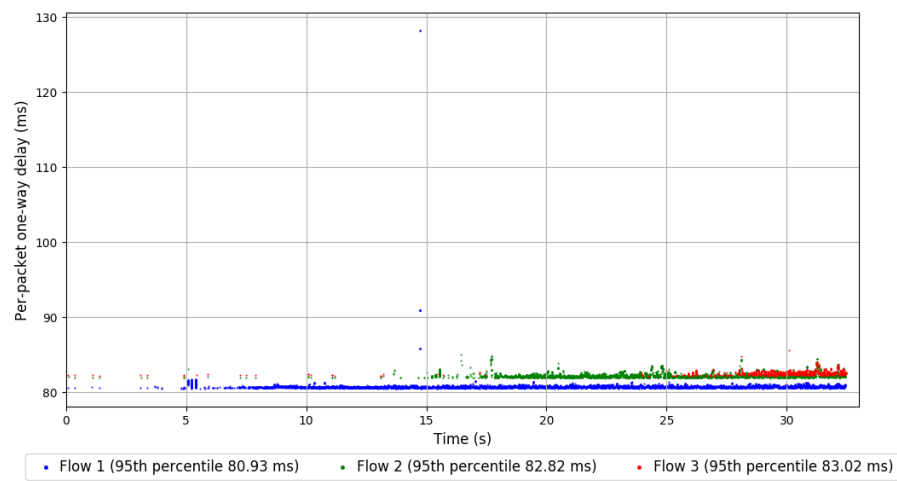
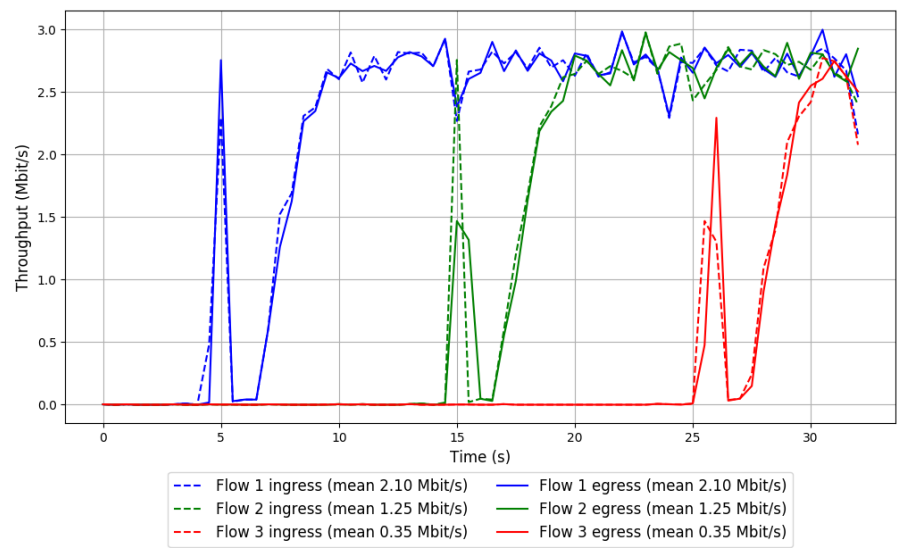


Run 7: Statistics of WebRTC media

Start at: 2017-11-30 23:26:51
End at: 2017-11-30 23:27:21
Local clock offset: -0.269 ms
Remote clock offset: -1.431 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 82.621 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 80.928 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 82.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 83.017 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

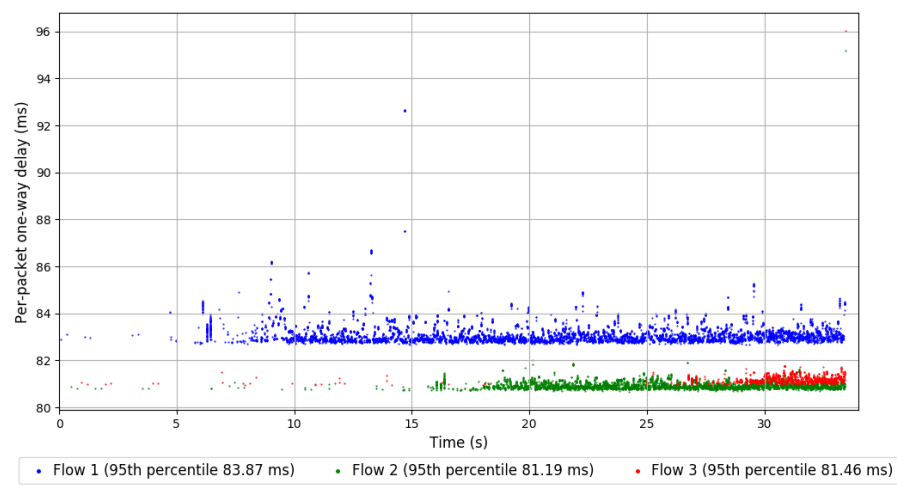
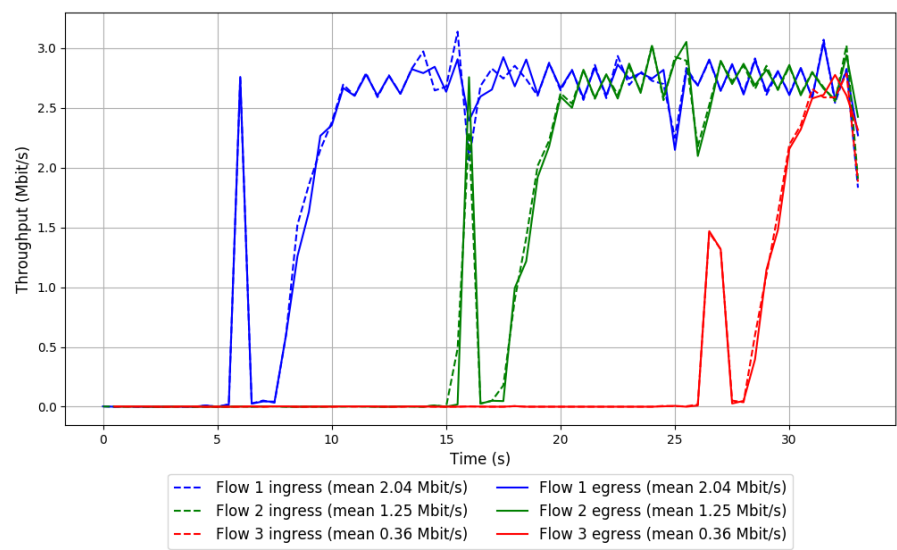


Run 8: Statistics of WebRTC media

Start at: 2017-11-30 23:46:49
End at: 2017-11-30 23:47:19
Local clock offset: -0.207 ms
Remote clock offset: -1.283 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 83.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 83.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 81.193 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 81.463 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

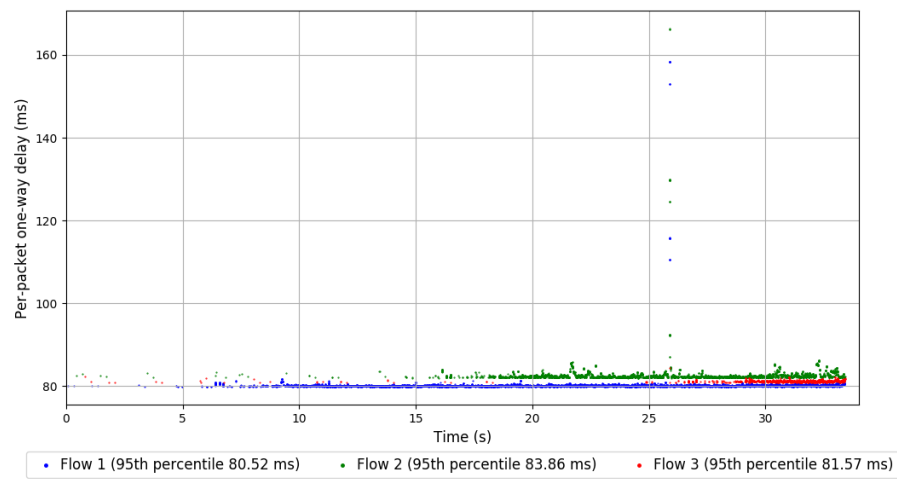
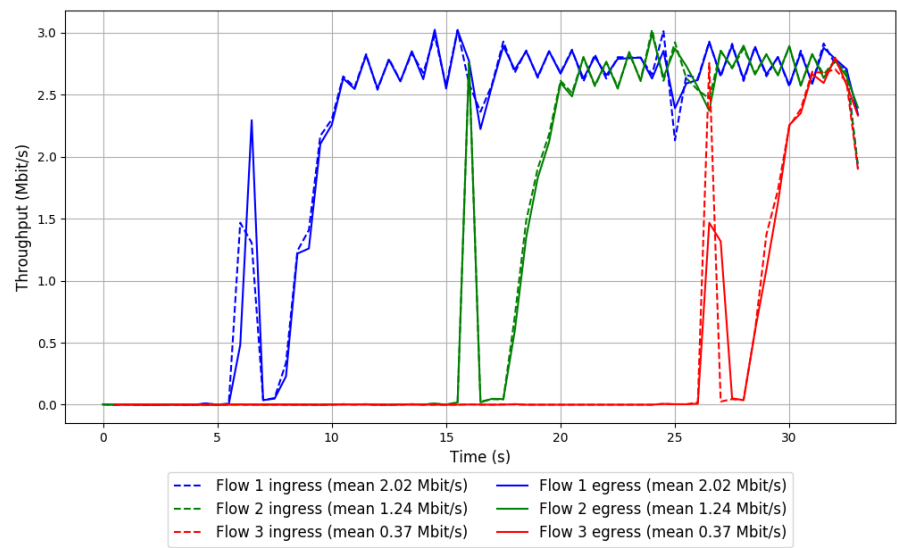


Run 9: Statistics of WebRTC media

Start at: 2017-12-01 00:06:55
End at: 2017-12-01 00:07:25
Local clock offset: -0.217 ms
Remote clock offset: -1.539 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 82.949 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 80.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 83.860 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 81.571 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-01 00:27:01

End at: 2017-12-01 00:27:31

Local clock offset: -0.158 ms

Remote clock offset: 5.08 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 87.230 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 87.290 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.00%

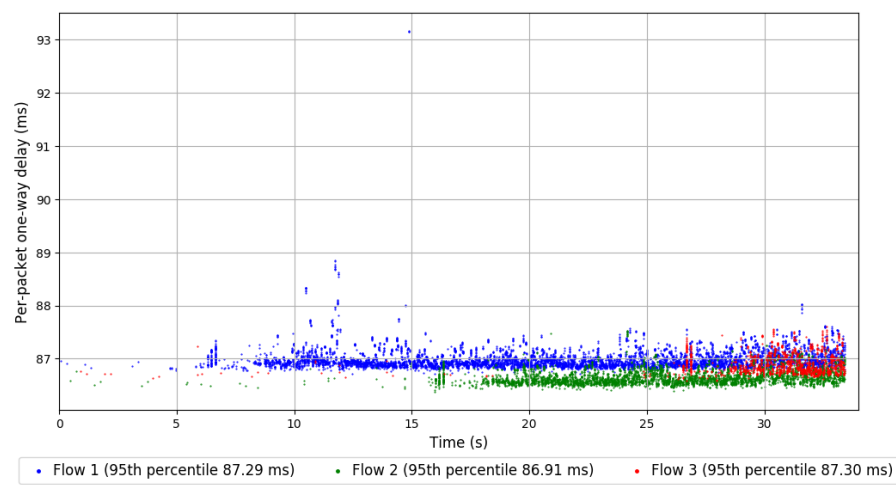
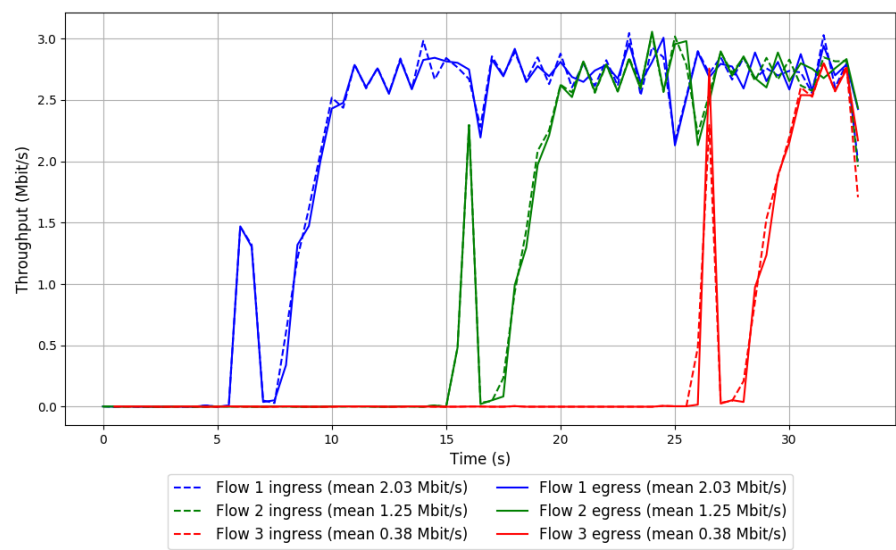
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 87.298 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

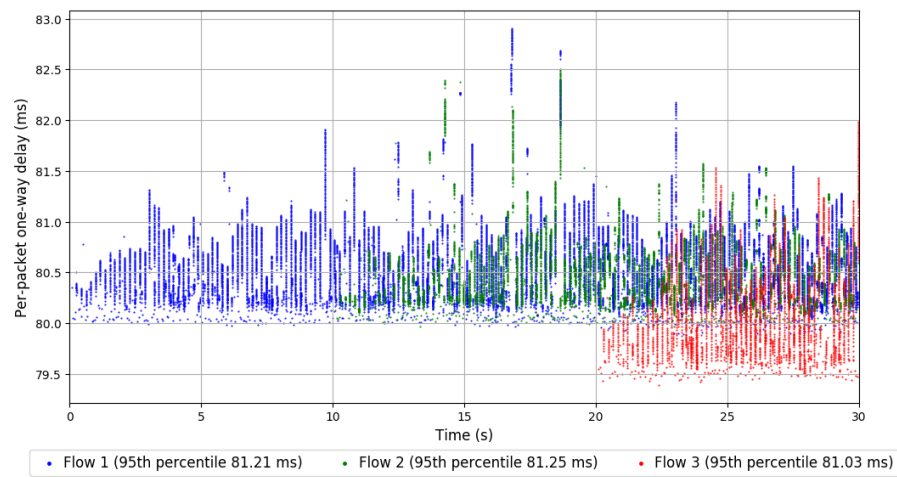
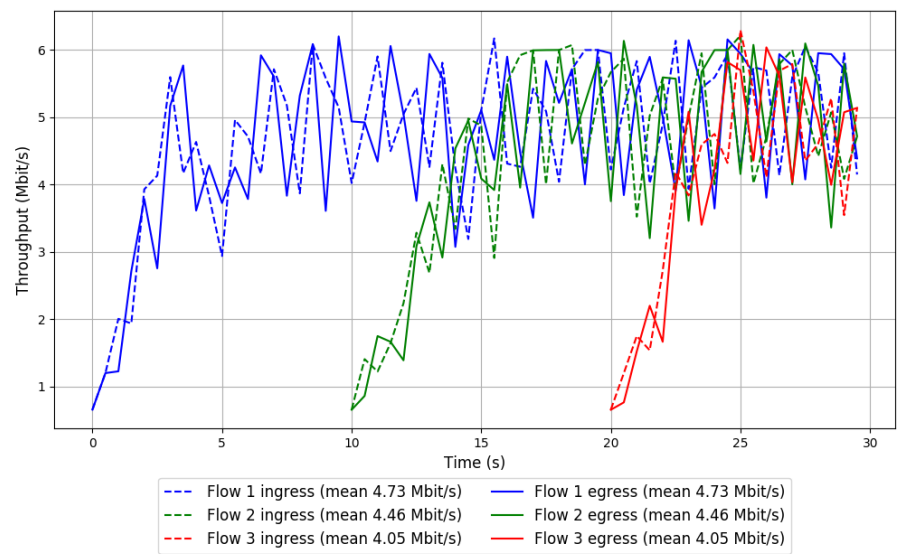


Run 1: Statistics of Sprout

Start at: 2017-11-30 21:16:16
End at: 2017-11-30 21:16:46
Local clock offset: 0.449 ms
Remote clock offset: -4.586 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 81.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.73 Mbit/s
95th percentile per-packet one-way delay: 81.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 81.247 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 81.028 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

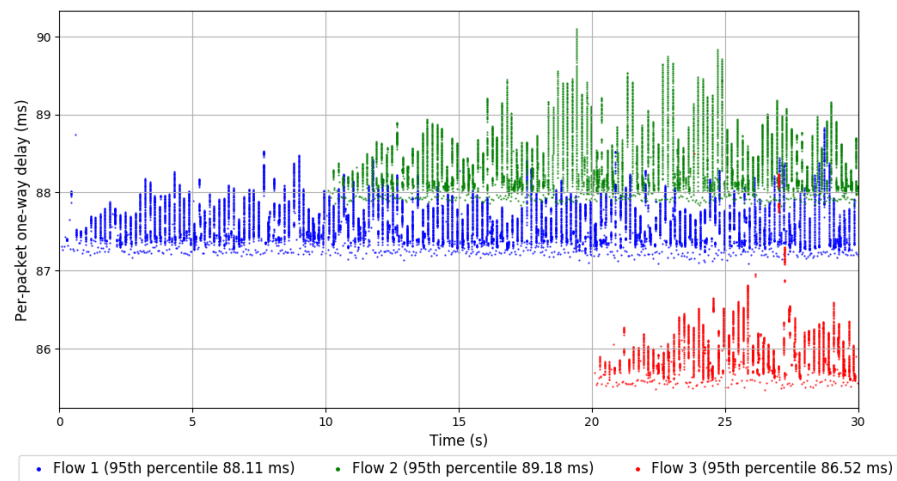
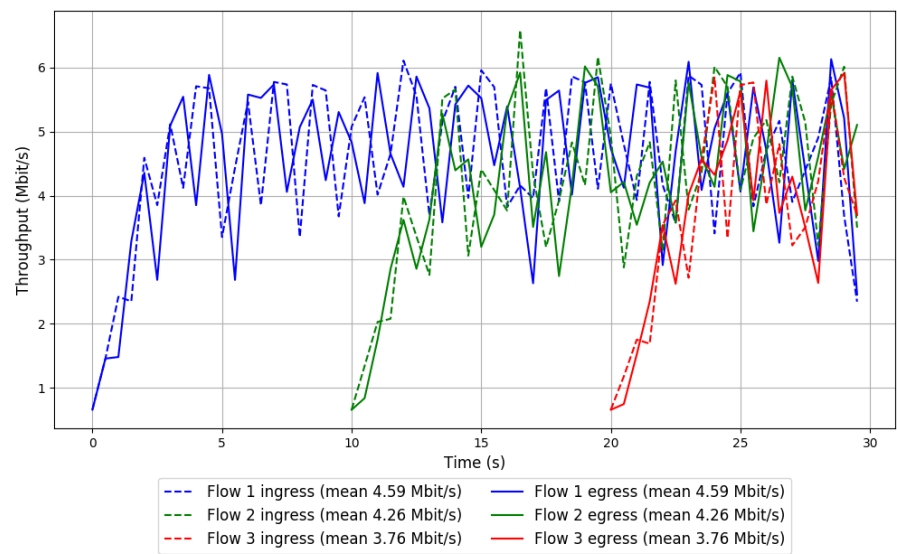


Run 2: Statistics of Sprout

Start at: 2017-11-30 21:36:11
End at: 2017-11-30 21:36:41
Local clock offset: 0.258 ms
Remote clock offset: 2.45 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 88.831 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 88.108 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 89.180 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 86.522 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

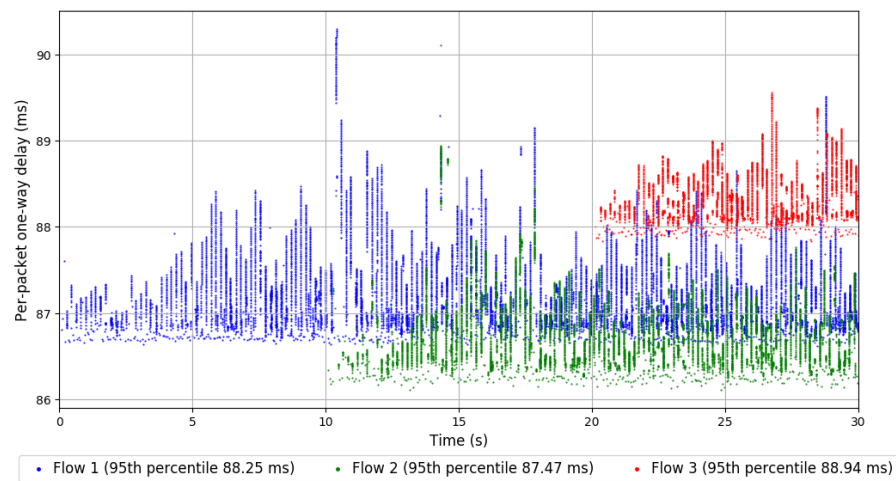
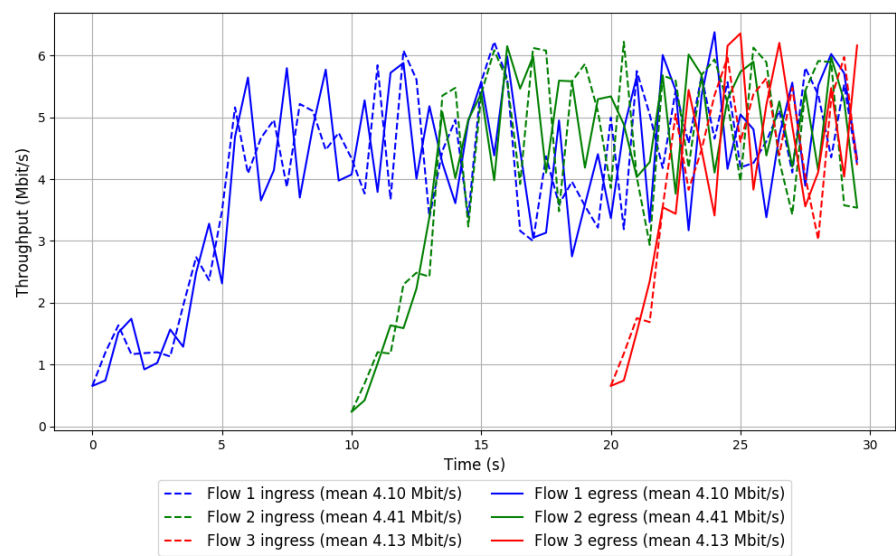


Run 3: Statistics of Sprout

Start at: 2017-11-30 21:56:10
End at: 2017-11-30 21:56:40
Local clock offset: 0.144 ms
Remote clock offset: 3.727 ms

```
# Below is generated by plot.py at 2017-12-01 01:40:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 88.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 88.254 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 88.945 ms
Loss rate: 0.00%
```


Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 22:16:18

End at: 2017-11-30 22:16:48

Local clock offset: 0.04 ms

Remote clock offset: -1.51 ms

Below is generated by plot.py at 2017-12-01 01:40:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.69 Mbit/s

95th percentile per-packet one-way delay: 83.849 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 82.050 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 84.005 ms

Loss rate: 0.00%

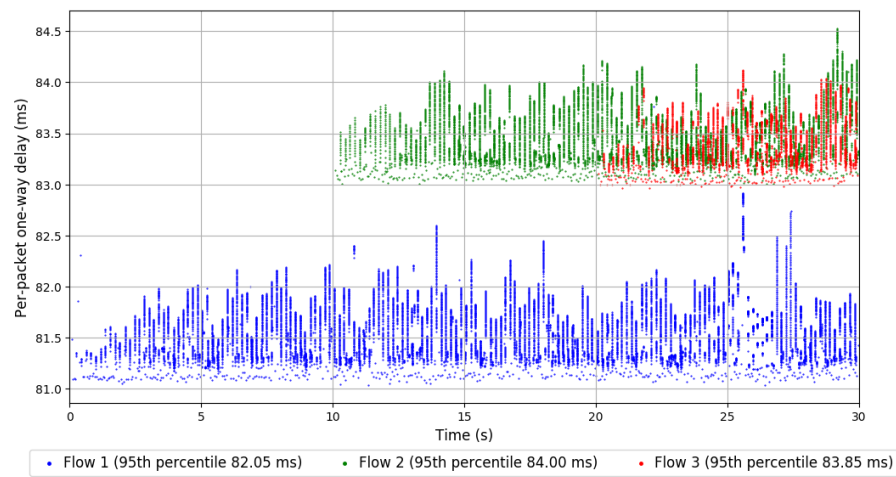
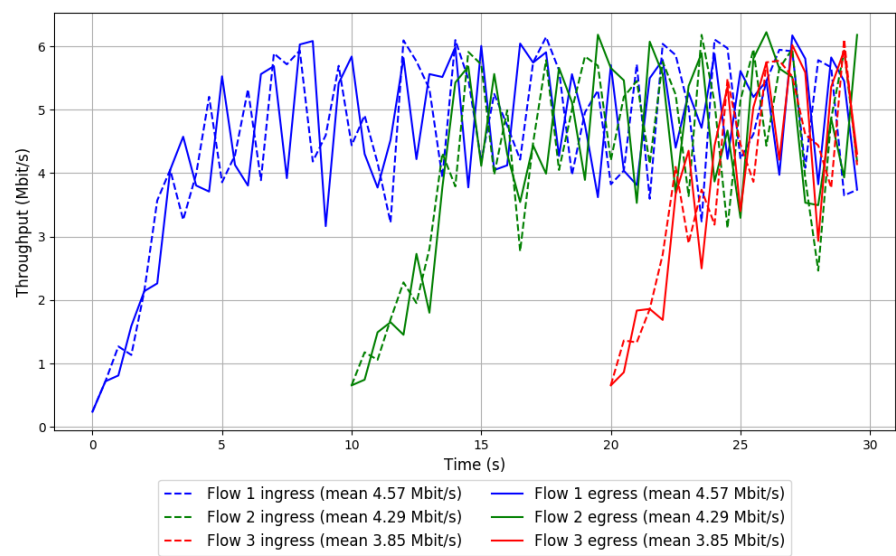
-- Flow 3:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 83.846 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

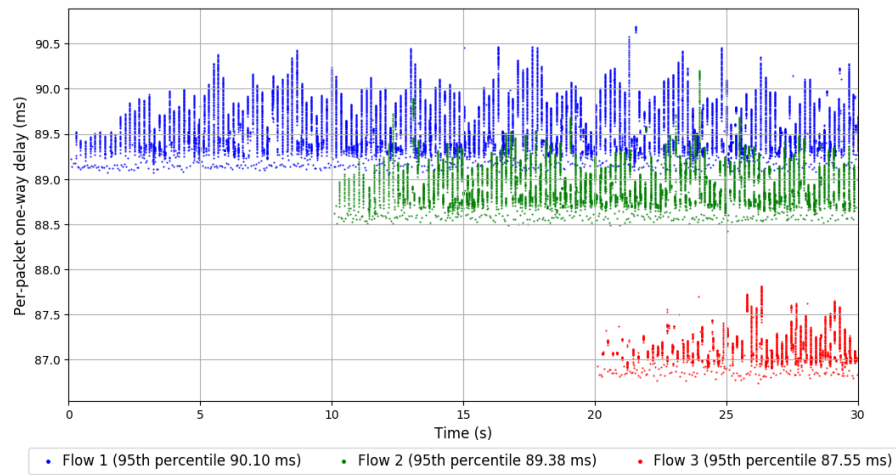
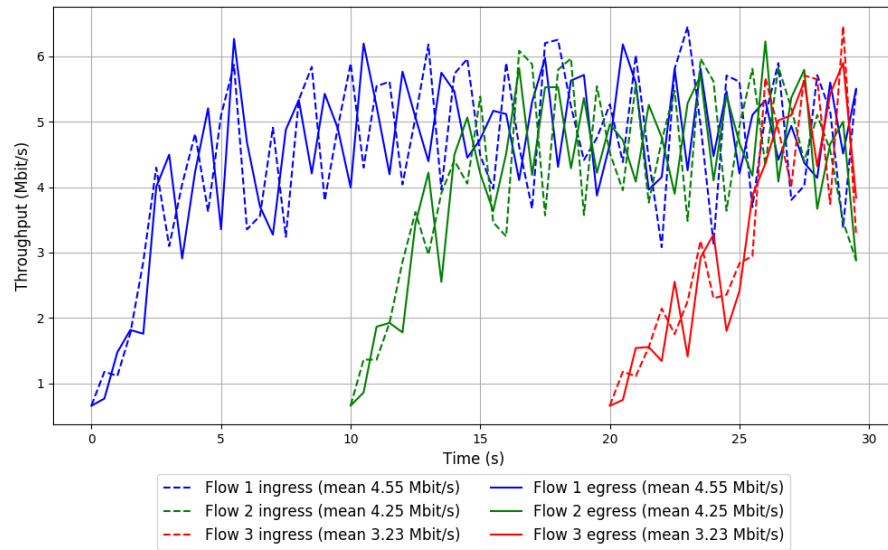


Run 5: Statistics of Sprout

Start at: 2017-11-30 22:36:18
End at: 2017-11-30 22:36:48
Local clock offset: -0.043 ms
Remote clock offset: 3.71 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 89.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 90.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 89.382 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 87.550 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

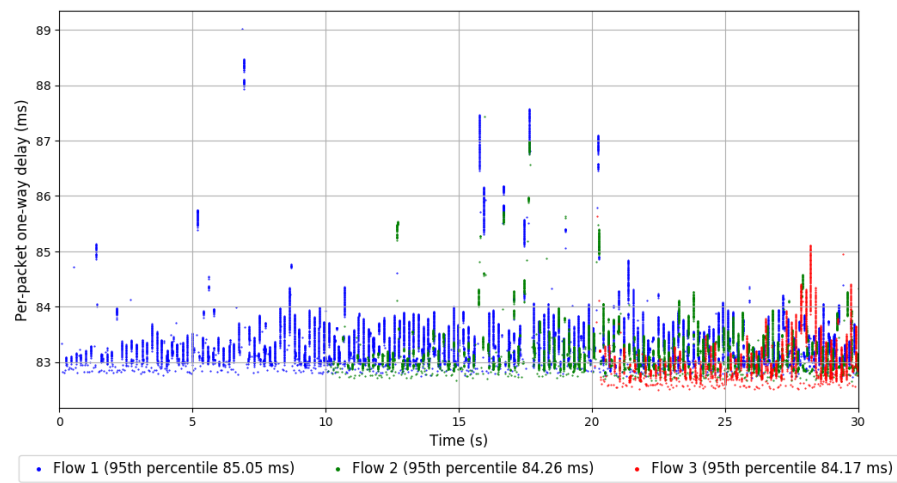
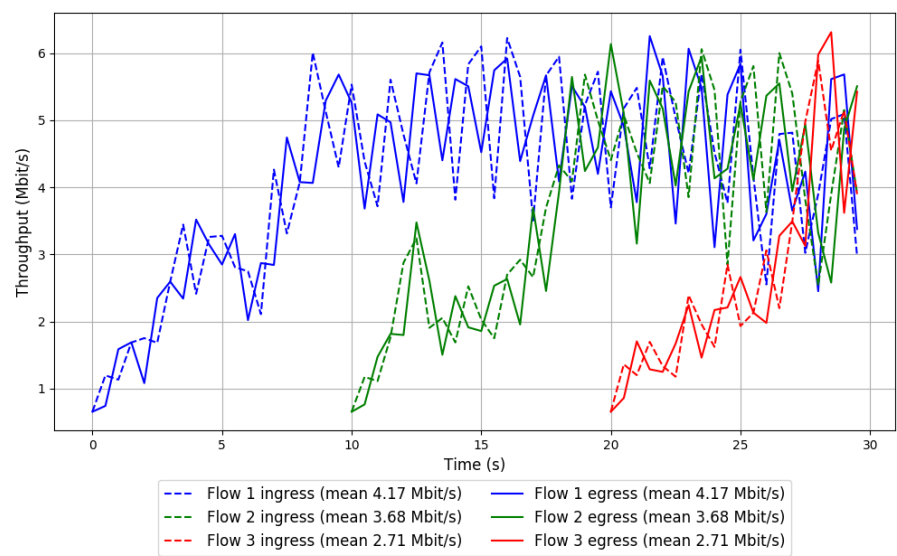


Run 6: Statistics of Sprout

Start at: 2017-11-30 22:56:37
End at: 2017-11-30 22:57:07
Local clock offset: -0.145 ms
Remote clock offset: -2.089 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 84.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 85.047 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 84.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 84.173 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

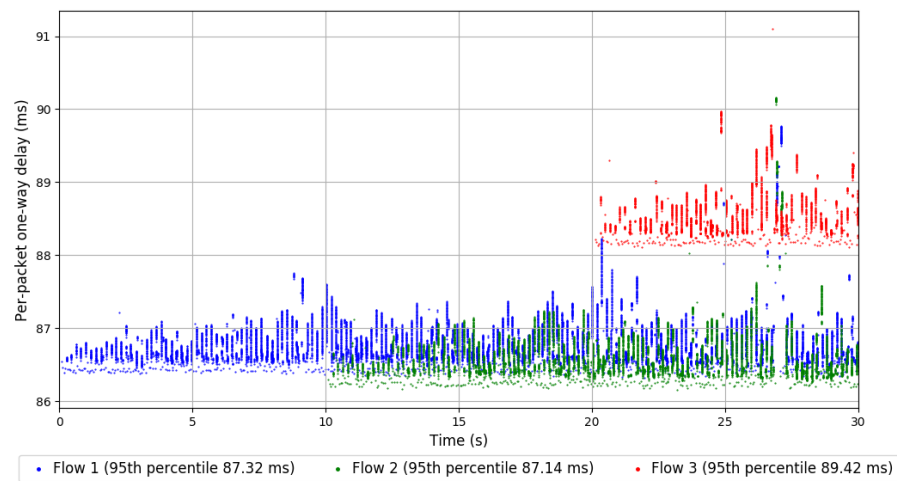
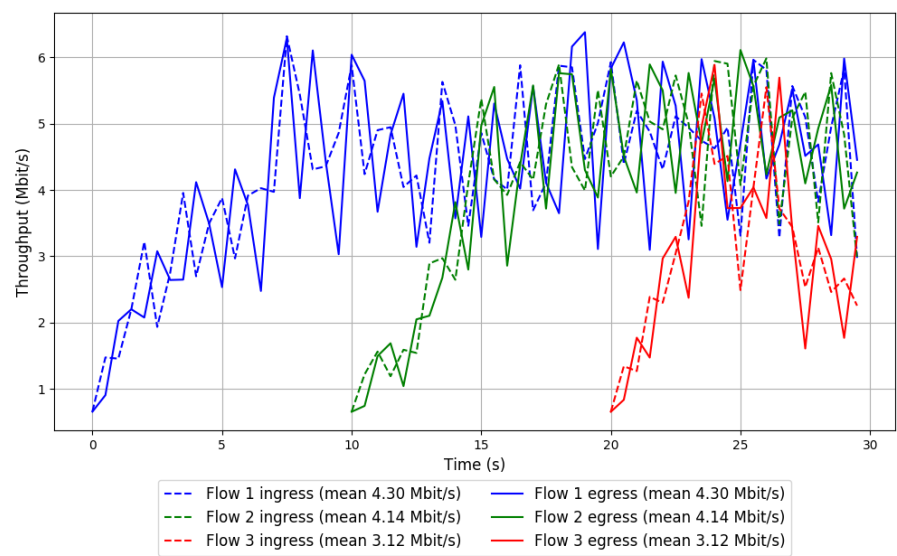


Run 7: Statistics of Sprout

Start at: 2017-11-30 23:16:47
End at: 2017-11-30 23:17:17
Local clock offset: -0.172 ms
Remote clock offset: 4.227 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 88.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 87.319 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 87.142 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 89.418 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

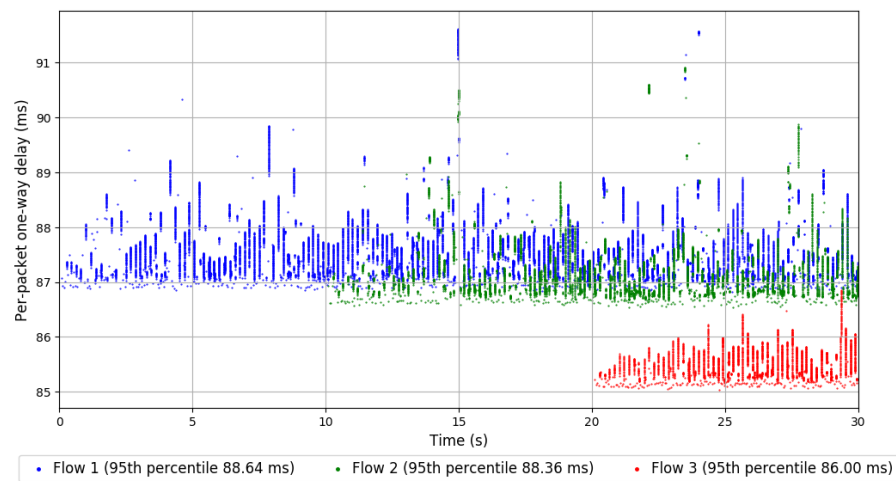
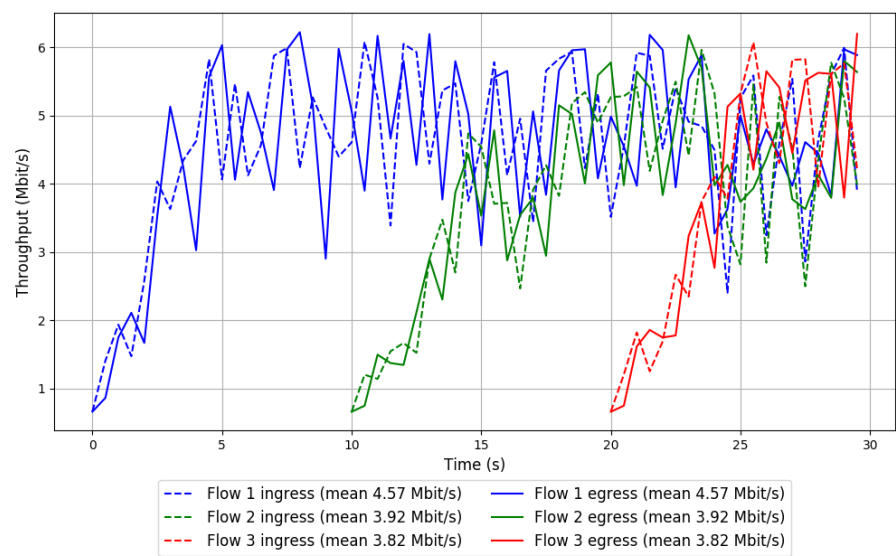


Run 8: Statistics of Sprout

Start at: 2017-11-30 23:36:51
End at: 2017-11-30 23:37:21
Local clock offset: -0.292 ms
Remote clock offset: 3.07 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 88.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 88.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 88.361 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 85.999 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

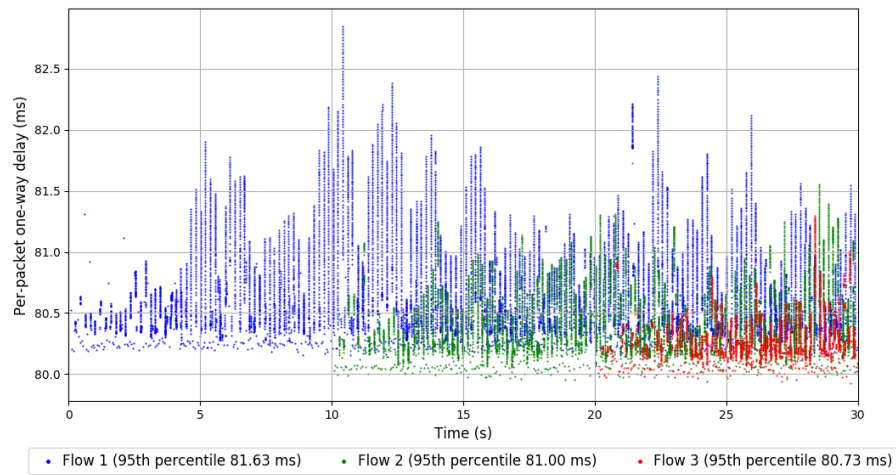
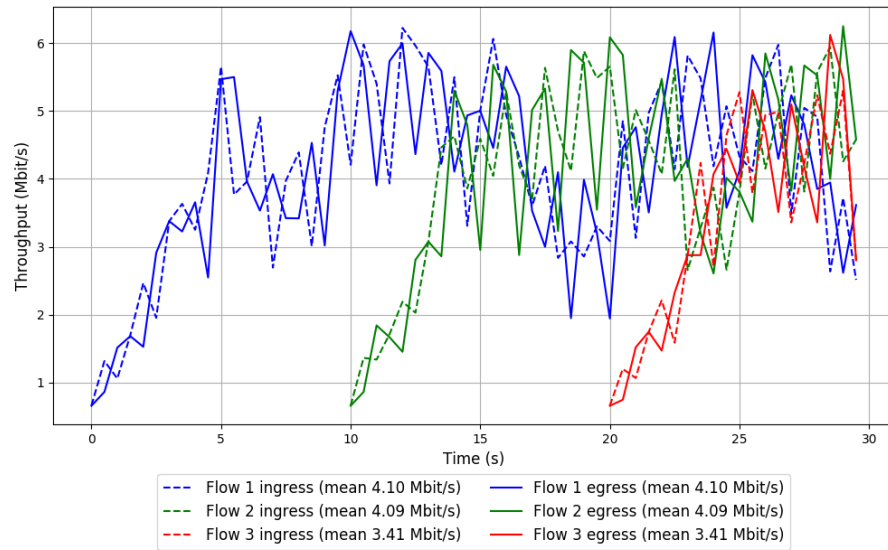


Run 9: Statistics of Sprout

Start at: 2017-11-30 23:56:52
End at: 2017-11-30 23:57:22
Local clock offset: -0.233 ms
Remote clock offset: -1.986 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 81.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 81.629 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 81.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 80.735 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

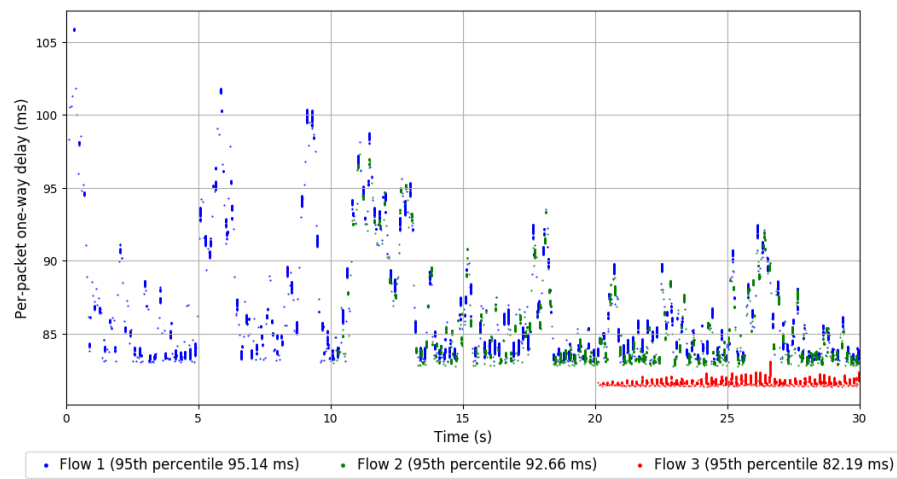
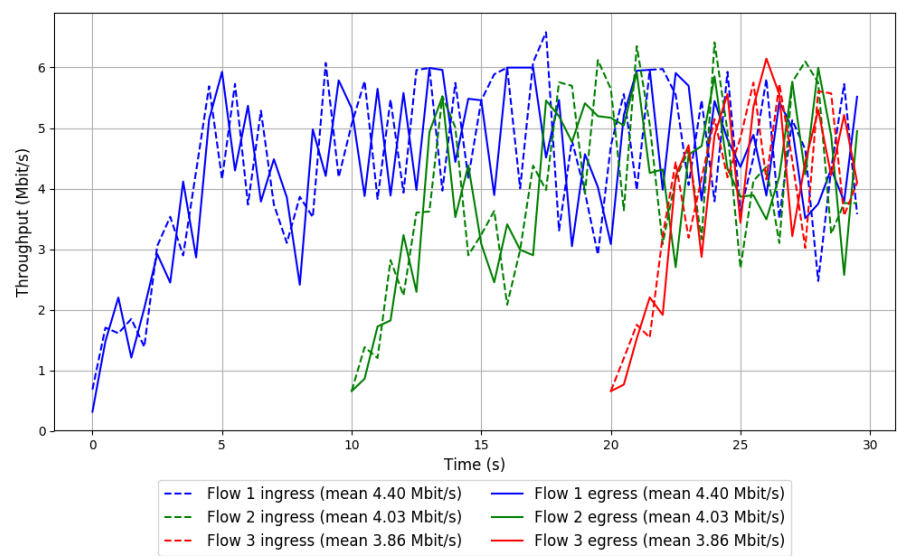


Run 10: Statistics of Sprout

Start at: 2017-12-01 00:17:01
End at: 2017-12-01 00:17:31
Local clock offset: -0.253 ms
Remote clock offset: -0.567 ms

Below is generated by plot.py at 2017-12-01 01:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 94.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 95.145 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 92.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 82.193 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

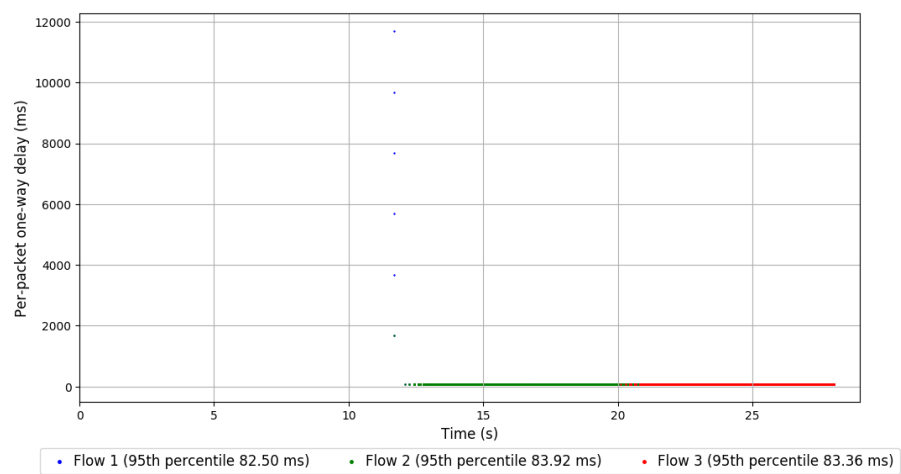
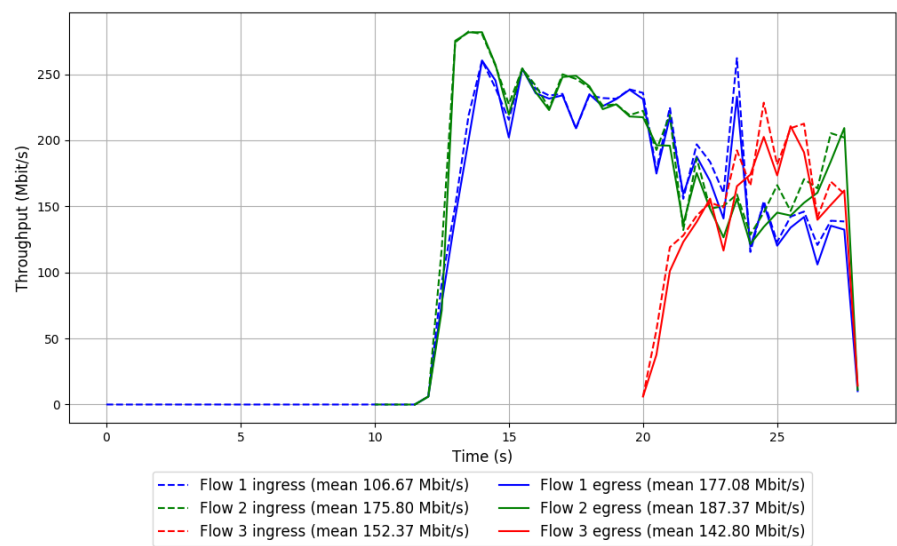
Start at: 2017-11-30 21:11:57

End at: 2017-11-30 21:12:27

Local clock offset: 0.45 ms

Remote clock offset: -3.696 ms

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 21:31:41

End at: 2017-11-30 21:32:11

Local clock offset: 0.247 ms

Remote clock offset: 2.753 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.08 Mbit/s

95th percentile per-packet one-way delay: 87.986 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 212.90 Mbit/s

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

Loss rate: 1.79%

-- Flow 2:

Average throughput: 201.44 Mbit/s

95th percentile per-packet one-way delay: 88.072 ms

Loss rate: 2.81%

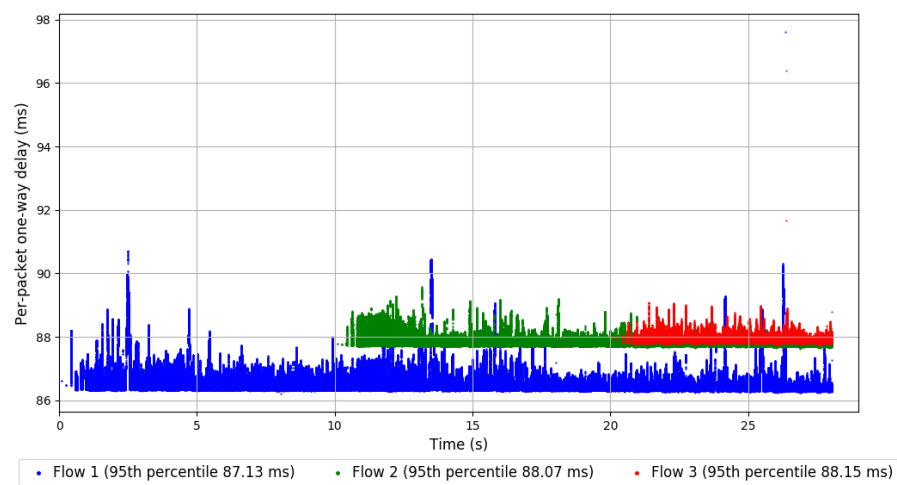
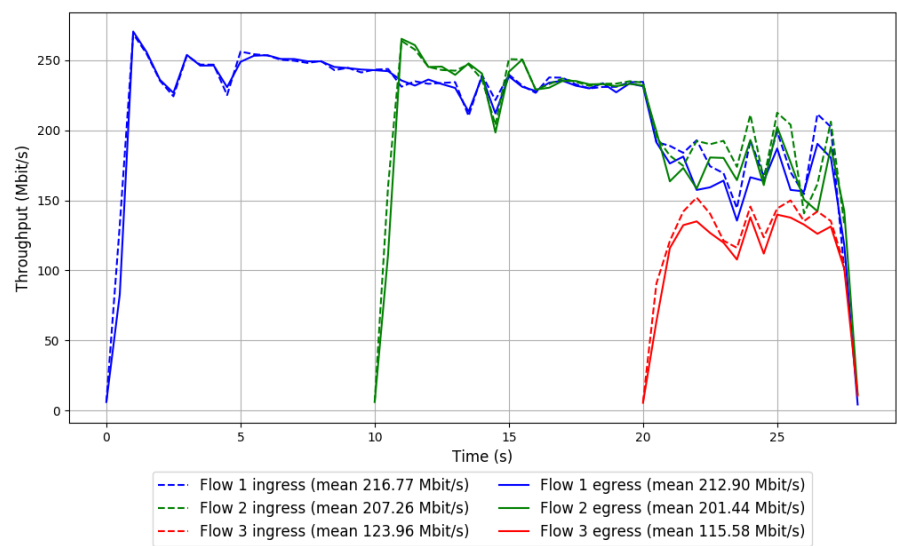
-- Flow 3:

Average throughput: 115.58 Mbit/s

95th percentile per-packet one-way delay: 88.151 ms

Loss rate: 6.76%

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

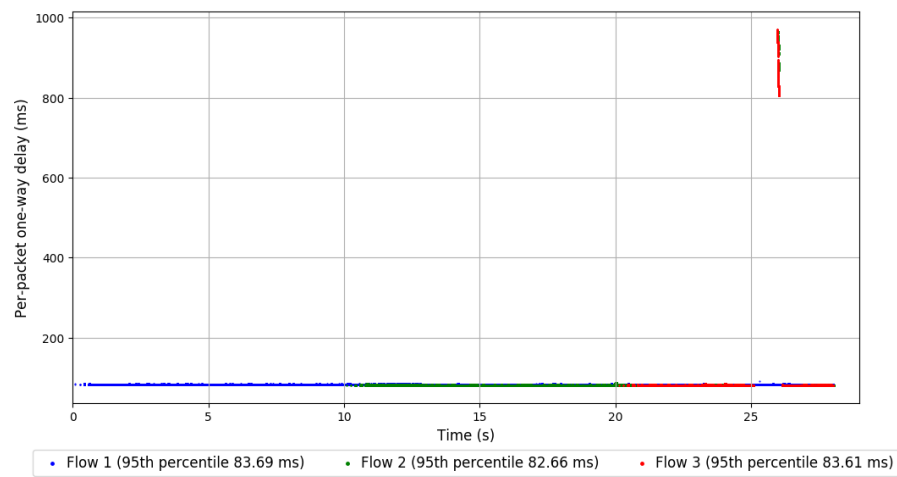
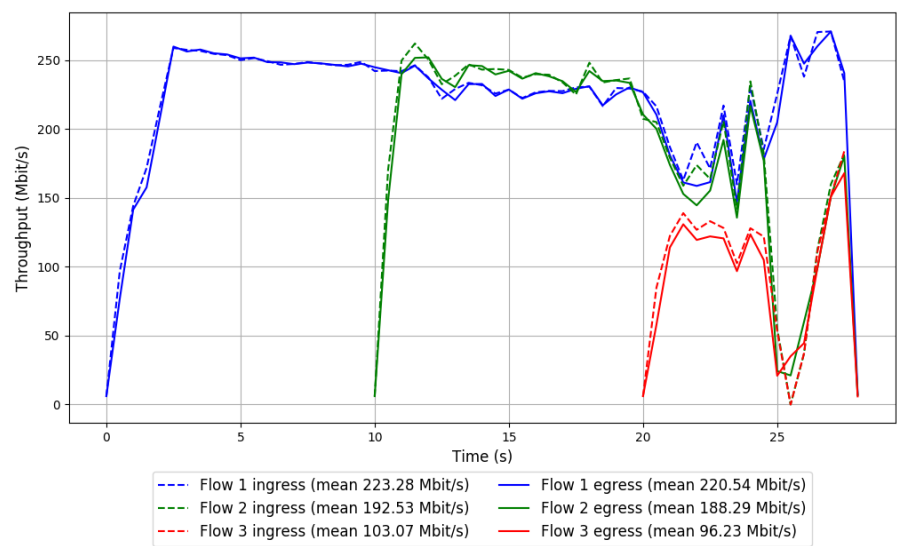


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 21:51:42
End at: 2017-11-30 21:52:12
Local clock offset: 0.18 ms
Remote clock offset: -0.893 ms

Below is generated by plot.py at 2017-12-01 01:48:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 368.49 Mbit/s
95th percentile per-packet one-way delay: 83.642 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 220.54 Mbit/s
95th percentile per-packet one-way delay: 83.690 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 188.29 Mbit/s
95th percentile per-packet one-way delay: 82.655 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 83.610 ms
Loss rate: 6.64%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 22:11:44

End at: 2017-11-30 22:12:14

Local clock offset: 0.077 ms

Remote clock offset: 3.761 ms

Below is generated by plot.py at 2017-12-01 01:49:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.24 Mbit/s

95th percentile per-packet one-way delay: 87.748 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 216.69 Mbit/s

95th percentile per-packet one-way delay: 87.265 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 203.12 Mbit/s

95th percentile per-packet one-way delay: 88.230 ms

Loss rate: 2.52%

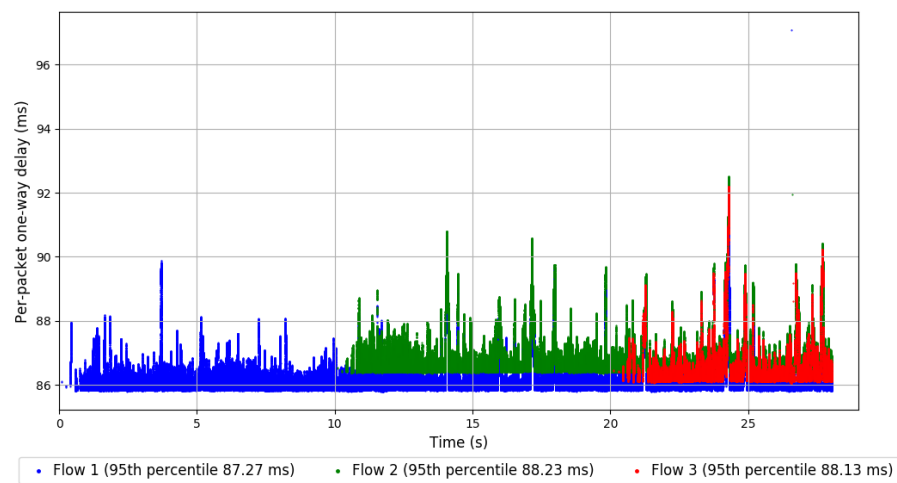
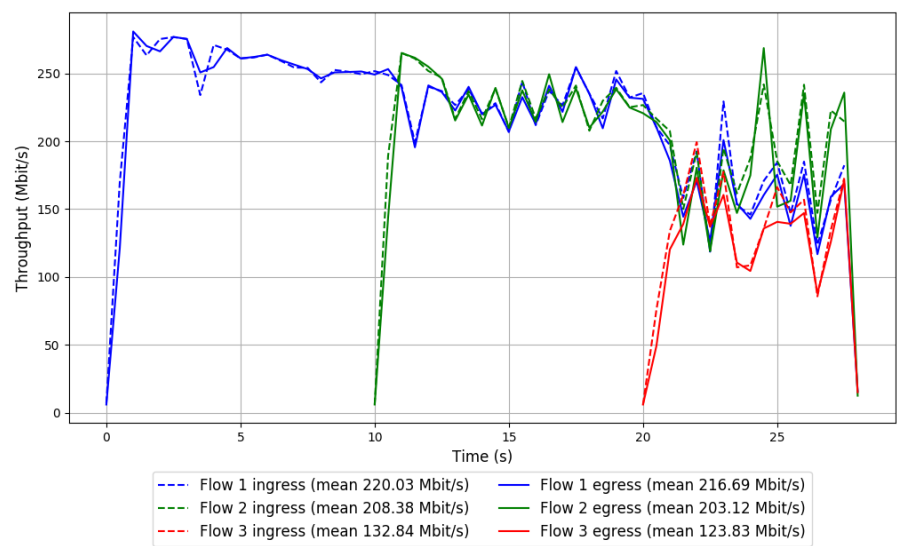
-- Flow 3:

Average throughput: 123.83 Mbit/s

95th percentile per-packet one-way delay: 88.134 ms

Loss rate: 6.78%

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

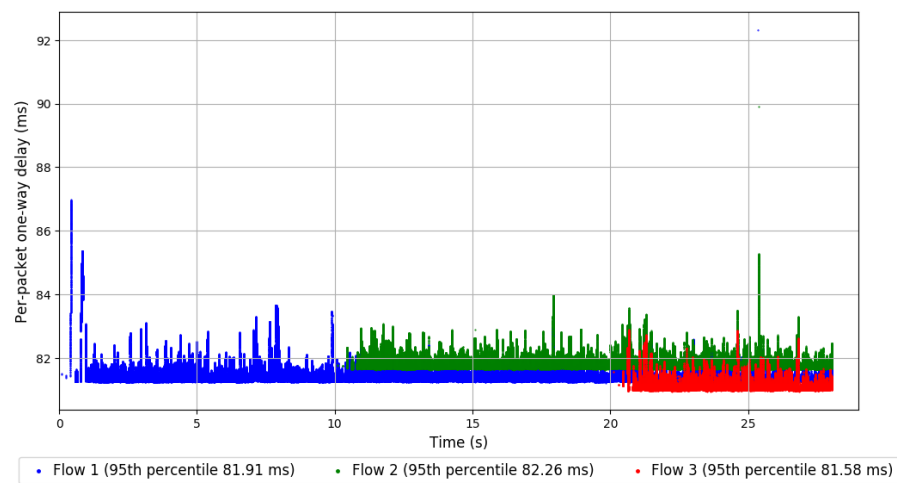
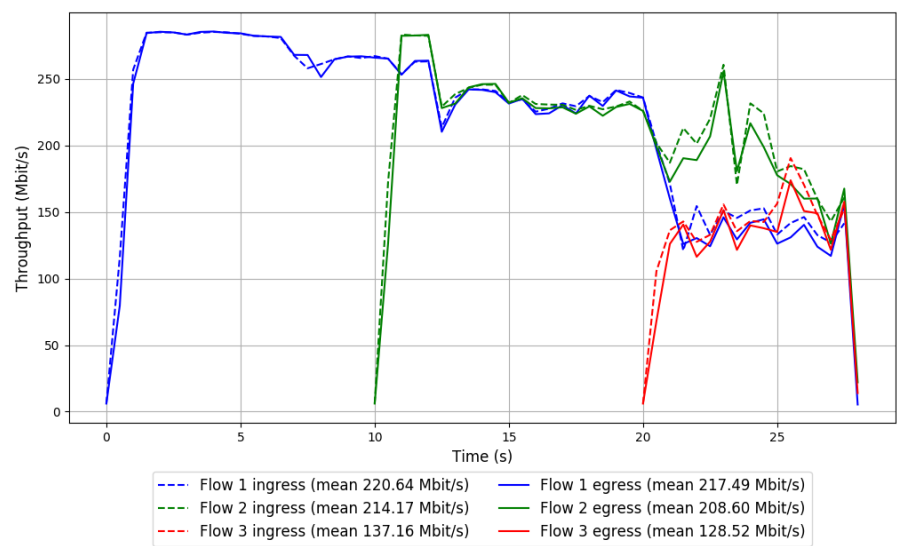


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 22:31:47
End at: 2017-11-30 22:32:17
Local clock offset: -0.034 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2017-12-01 01:49:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 387.70 Mbit/s
95th percentile per-packet one-way delay: 82.090 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 217.49 Mbit/s
95th percentile per-packet one-way delay: 81.912 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 208.60 Mbit/s
95th percentile per-packet one-way delay: 82.260 ms
Loss rate: 2.60%
-- Flow 3:
Average throughput: 128.52 Mbit/s
95th percentile per-packet one-way delay: 81.579 ms
Loss rate: 6.30%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 22:52:05

End at: 2017-11-30 22:52:35

Local clock offset: -0.112 ms

Remote clock offset: 2.494 ms

Below is generated by plot.py at 2017-12-01 01:50:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.70 Mbit/s

95th percentile per-packet one-way delay: 88.790 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 221.56 Mbit/s

95th percentile per-packet one-way delay: 86.380 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 208.80 Mbit/s

95th percentile per-packet one-way delay: 89.188 ms

Loss rate: 2.80%

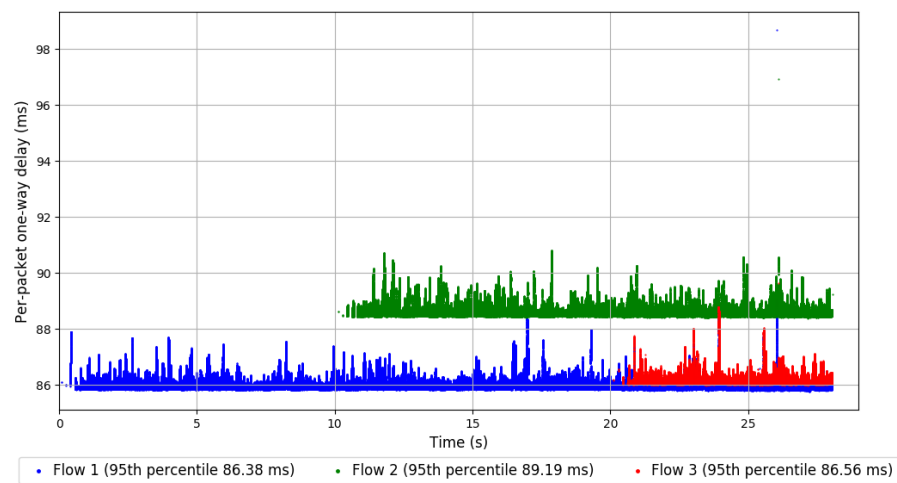
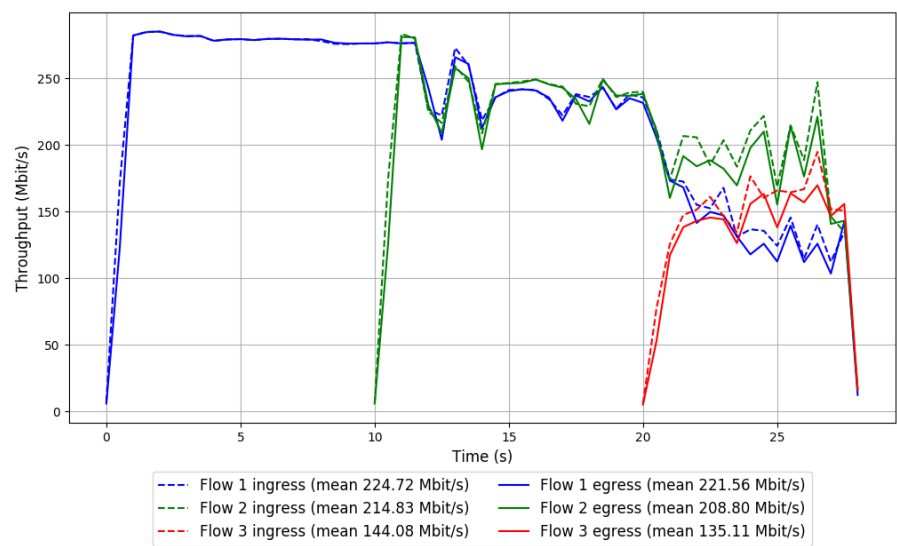
-- Flow 3:

Average throughput: 135.11 Mbit/s

95th percentile per-packet one-way delay: 86.563 ms

Loss rate: 6.22%

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

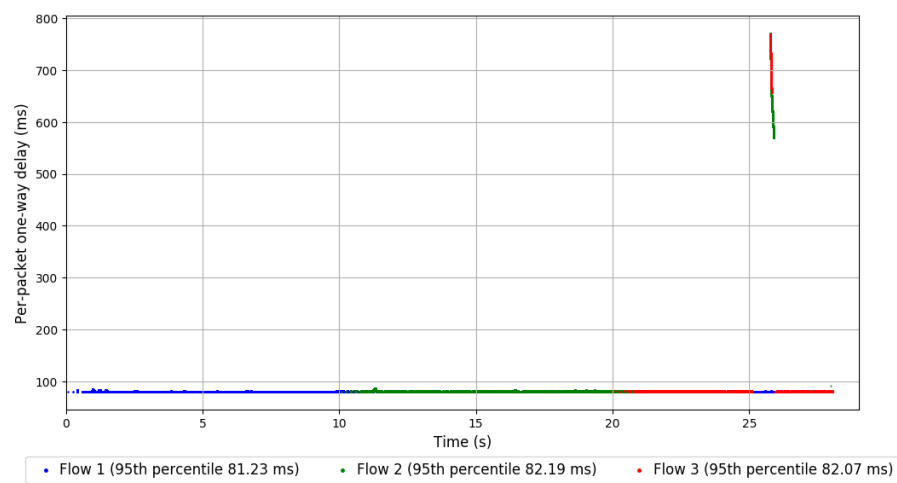
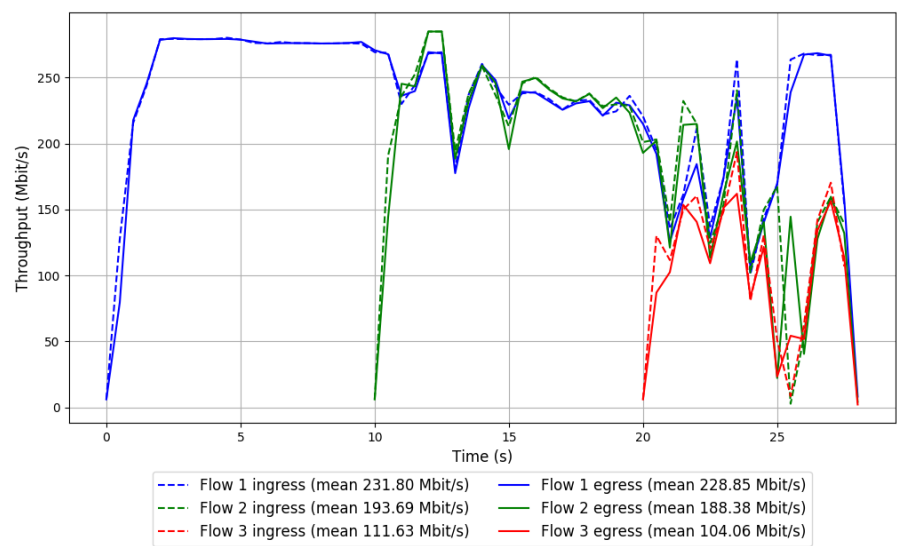


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 23:12:18
End at: 2017-11-30 23:12:48
Local clock offset: -0.175 ms
Remote clock offset: -1.641 ms

Below is generated by plot.py at 2017-12-01 01:50:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 379.20 Mbit/s
95th percentile per-packet one-way delay: 81.777 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 228.85 Mbit/s
95th percentile per-packet one-way delay: 81.227 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 188.38 Mbit/s
95th percentile per-packet one-way delay: 82.192 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 104.06 Mbit/s
95th percentile per-packet one-way delay: 82.069 ms
Loss rate: 6.78%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 23:32:24

End at: 2017-11-30 23:32:54

Local clock offset: -0.188 ms

Remote clock offset: 3.116 ms

Below is generated by plot.py at 2017-12-01 01:50:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.08 Mbit/s

95th percentile per-packet one-way delay: 85.783 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 229.20 Mbit/s

95th percentile per-packet one-way delay: 85.828 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 192.22 Mbit/s

95th percentile per-packet one-way delay: 85.648 ms

Loss rate: 2.74%

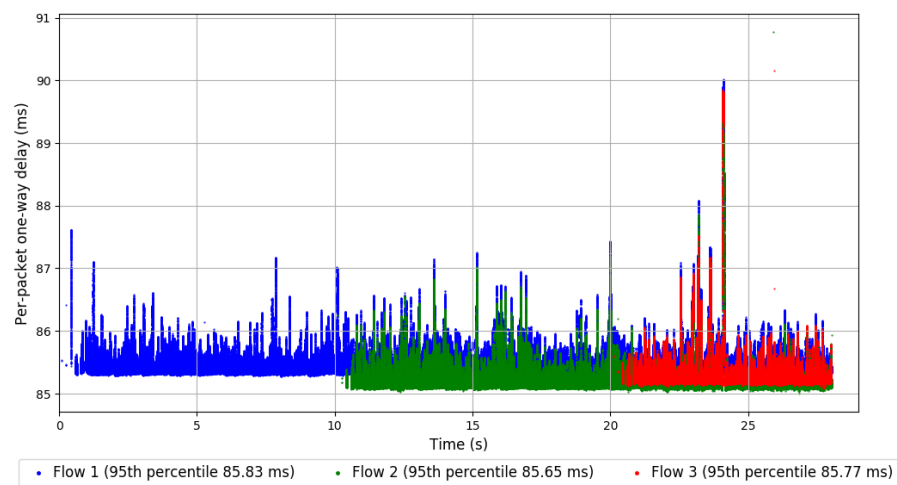
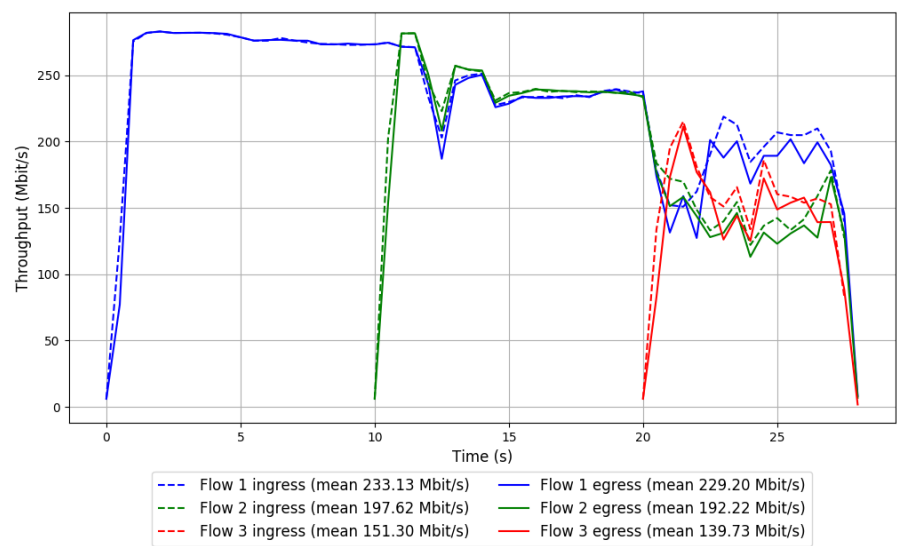
-- Flow 3:

Average throughput: 139.73 Mbit/s

95th percentile per-packet one-way delay: 85.774 ms

Loss rate: 7.64%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 23:52:25

End at: 2017-11-30 23:52:55

Local clock offset: -0.293 ms

Remote clock offset: 3.131 ms

Below is generated by plot.py at 2017-12-01 01:54:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.77 Mbit/s

95th percentile per-packet one-way delay: 89.847 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 209.64 Mbit/s

95th percentile per-packet one-way delay: 91.911 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 201.45 Mbit/s

95th percentile per-packet one-way delay: 85.529 ms

Loss rate: 2.67%

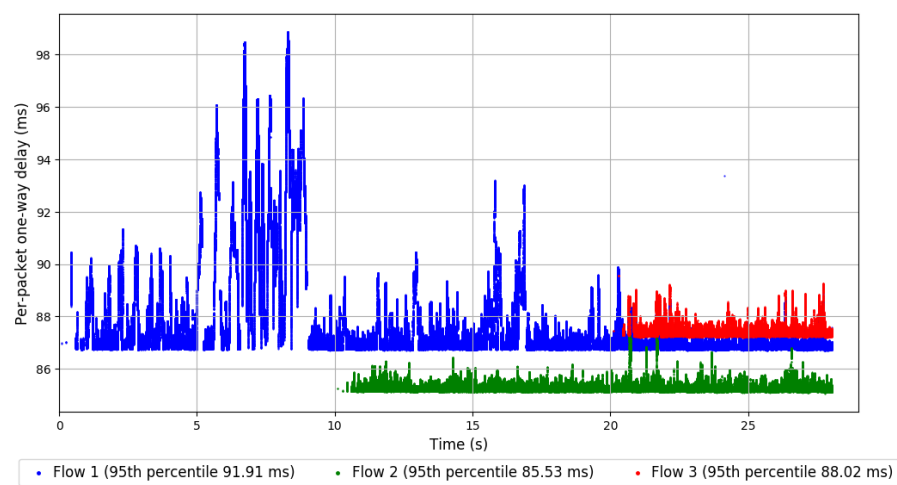
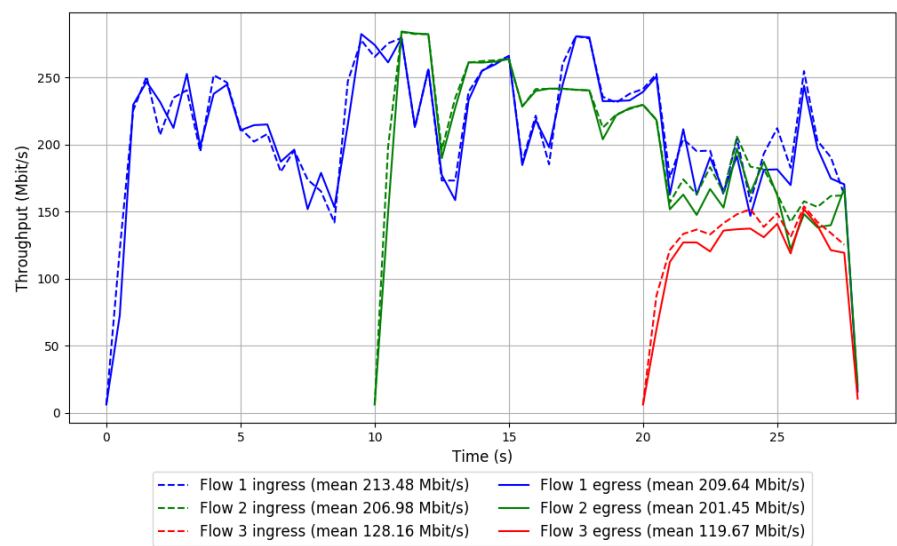
-- Flow 3:

Average throughput: 119.67 Mbit/s

95th percentile per-packet one-way delay: 88.019 ms

Loss rate: 6.63%

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

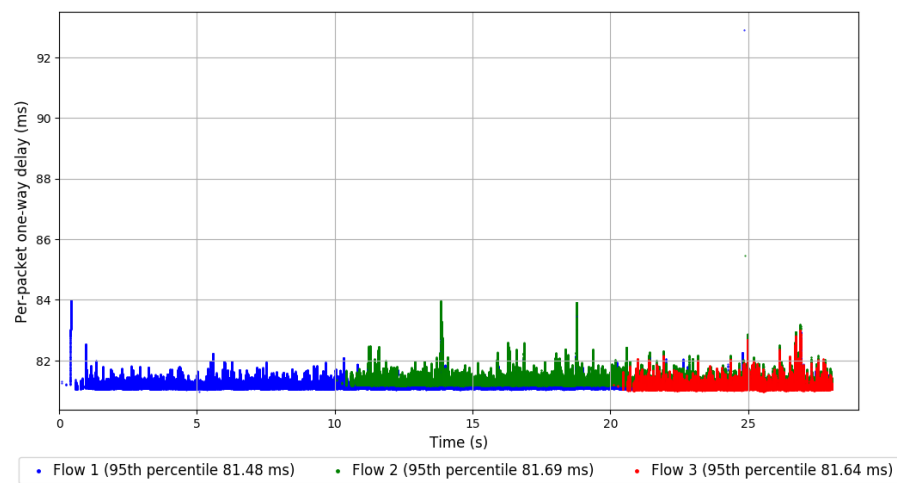
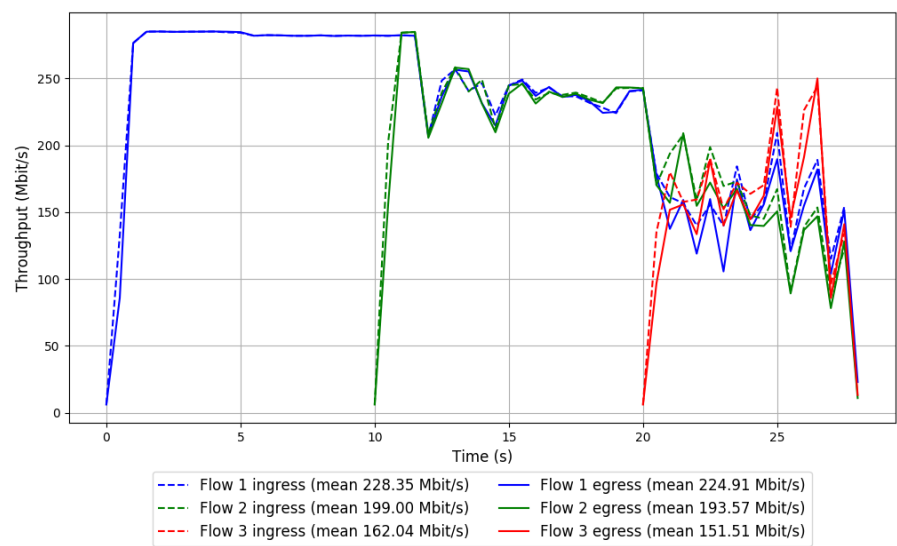


Run 10: Statistics of TaoVA-100x

Start at: 2017-12-01 00:12:30
End at: 2017-12-01 00:13:00
Local clock offset: -0.202 ms
Remote clock offset: -0.665 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 392.16 Mbit/s
95th percentile per-packet one-way delay: 81.579 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 224.91 Mbit/s
95th percentile per-packet one-way delay: 81.476 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 193.57 Mbit/s
95th percentile per-packet one-way delay: 81.689 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 151.51 Mbit/s
95th percentile per-packet one-way delay: 81.636 ms
Loss rate: 6.50%

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

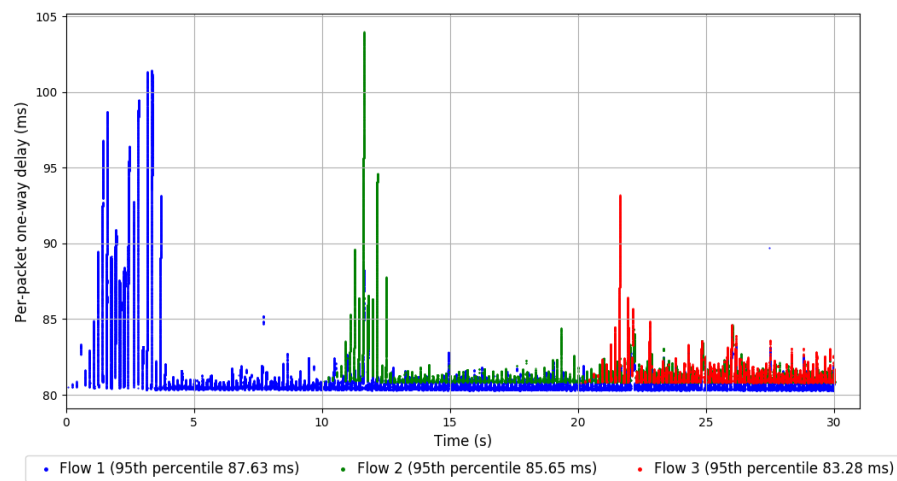
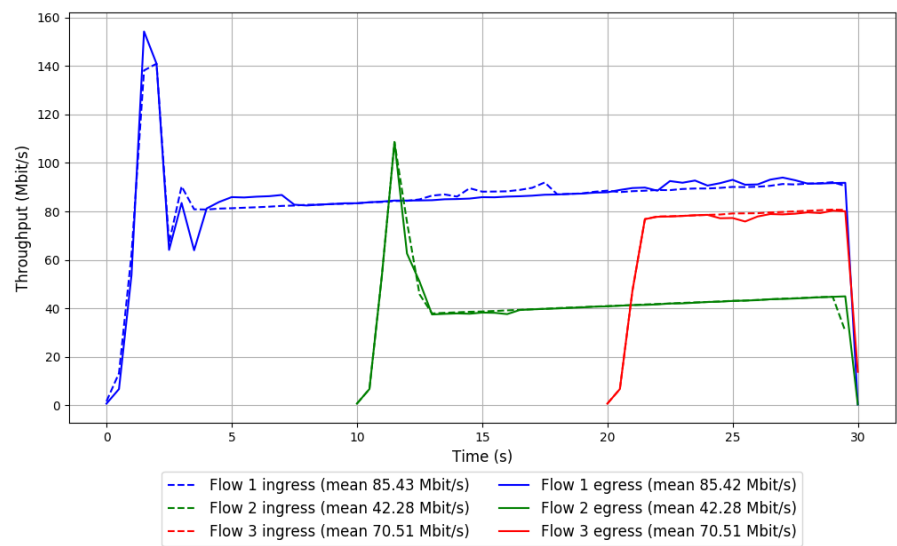


Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 21:17:31
End at: 2017-11-30 21:18:01
Local clock offset: 0.397 ms
Remote clock offset: -3.738 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.90 Mbit/s
95th percentile per-packet one-way delay: 86.354 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 87.629 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 85.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.51 Mbit/s
95th percentile per-packet one-way delay: 83.279 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 21:37:25

End at: 2017-11-30 21:37:55

Local clock offset: 0.266 ms

Remote clock offset: 3.307 ms

Below is generated by plot.py at 2017-12-01 01:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.89 Mbit/s

95th percentile per-packet one-way delay: 96.886 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.38 Mbit/s

95th percentile per-packet one-way delay: 97.253 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 96.888 ms

Loss rate: 0.01%

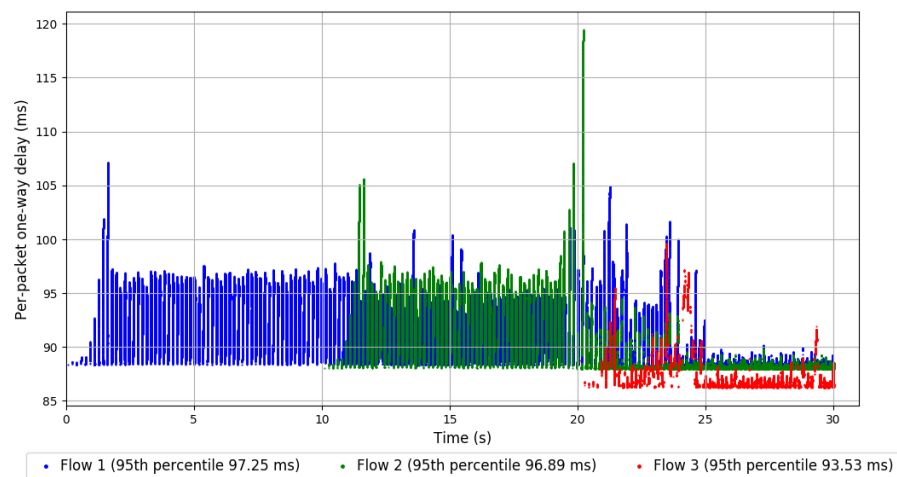
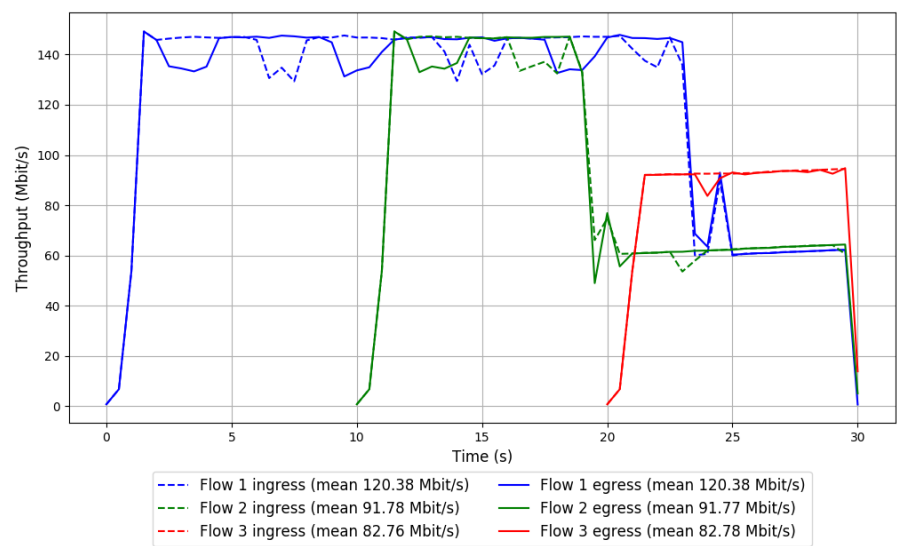
-- Flow 3:

Average throughput: 82.78 Mbit/s

95th percentile per-packet one-way delay: 93.530 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

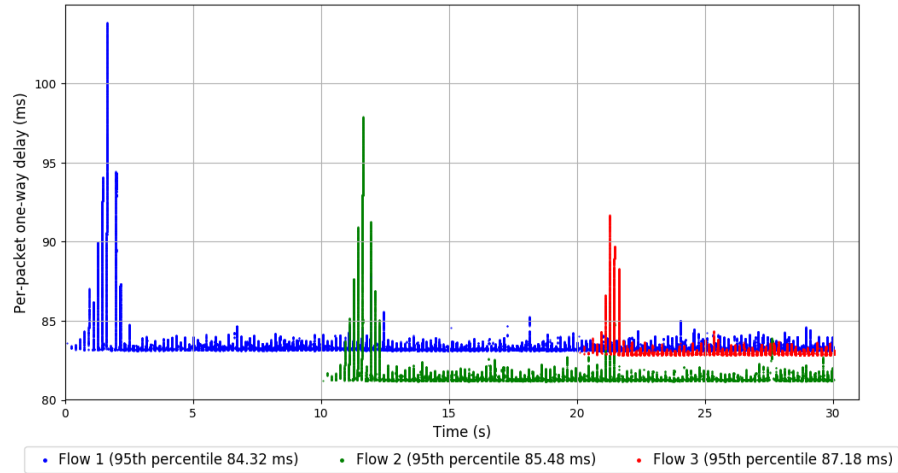
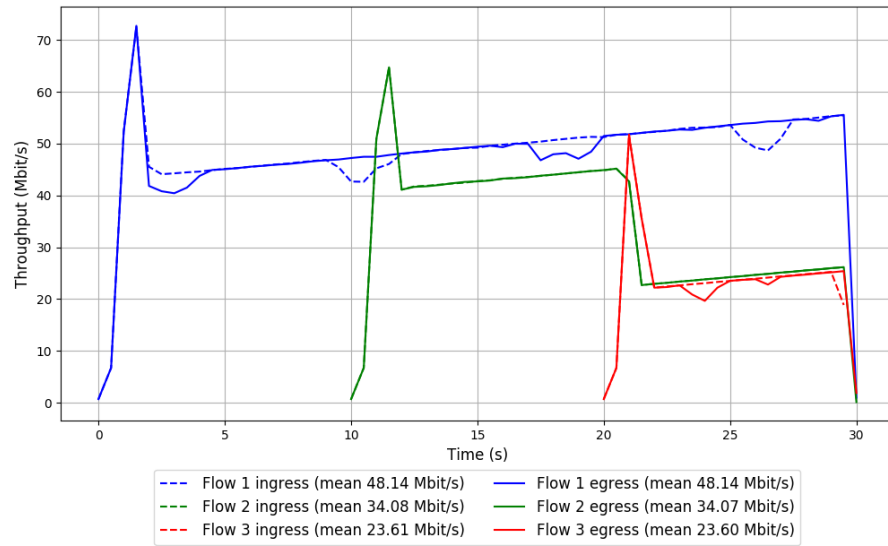


Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 21:57:24
End at: 2017-11-30 21:57:54
Local clock offset: 0.076 ms
Remote clock offset: -1.165 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.63 Mbit/s
95th percentile per-packet one-way delay: 84.854 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 84.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.07 Mbit/s
95th percentile per-packet one-way delay: 85.478 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 87.179 ms
Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 22:17:32

End at: 2017-11-30 22:18:02

Local clock offset: 0.037 ms

Remote clock offset: 3.156 ms

Below is generated by plot.py at 2017-12-01 01:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.21 Mbit/s

95th percentile per-packet one-way delay: 97.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.26 Mbit/s

95th percentile per-packet one-way delay: 92.088 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.36 Mbit/s

95th percentile per-packet one-way delay: 98.748 ms

Loss rate: 0.00%

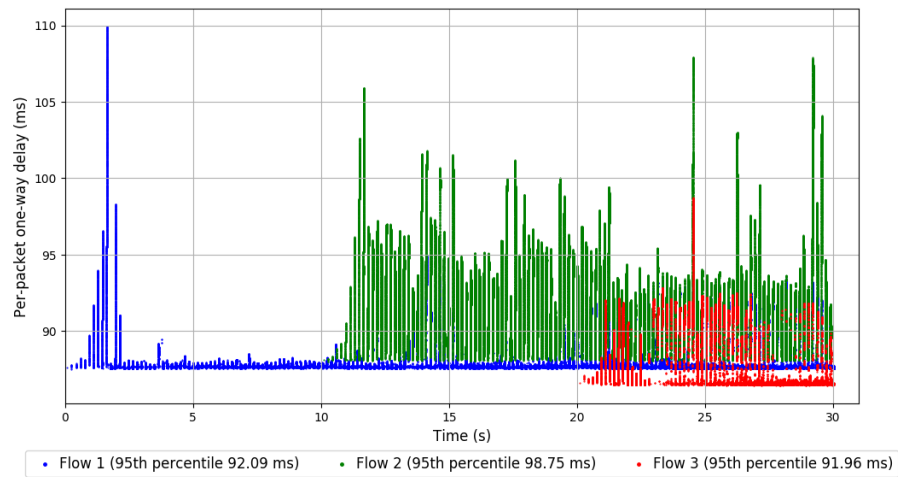
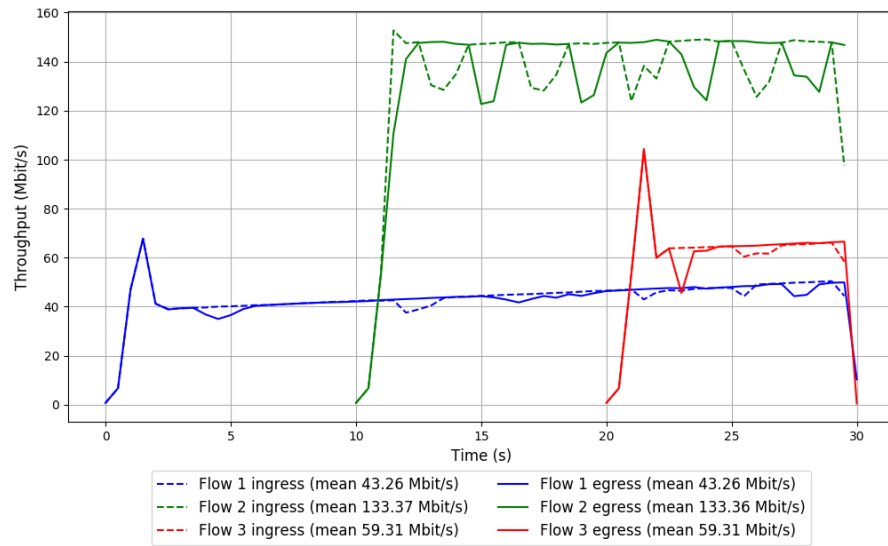
-- Flow 3:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 91.961 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

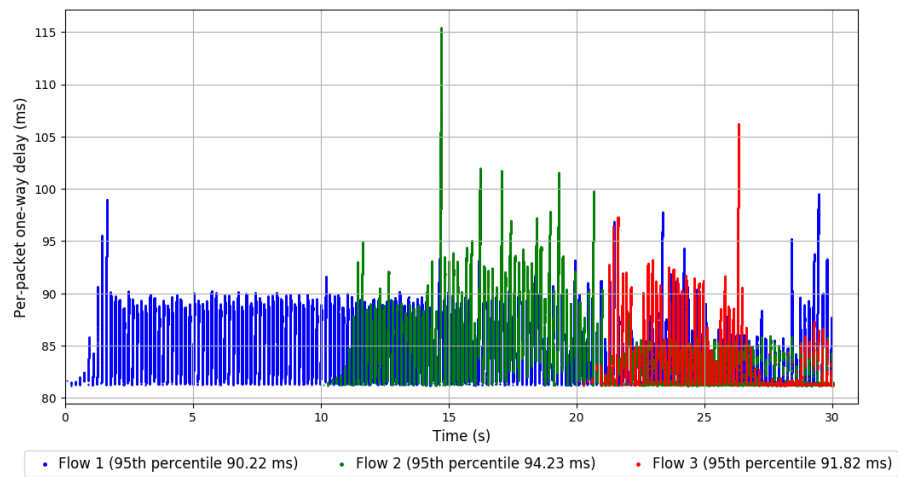
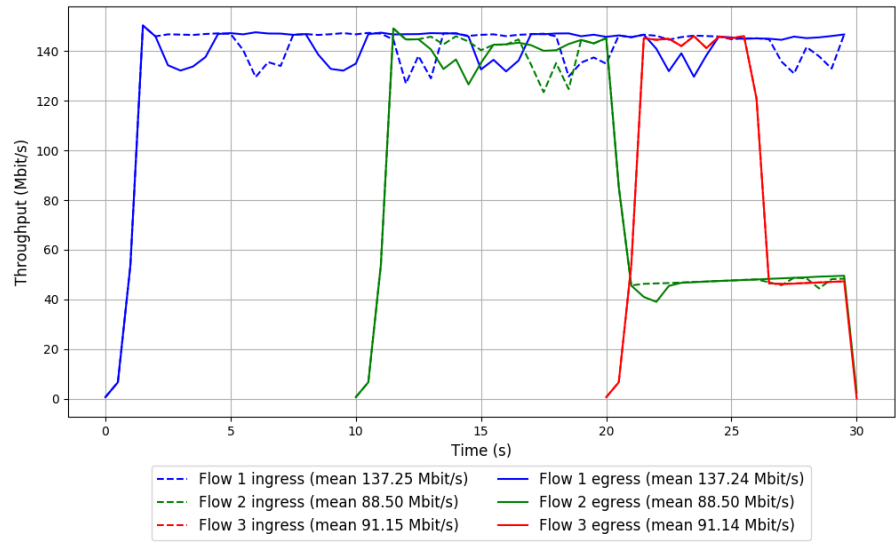


Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 22:37:32
End at: 2017-11-30 22:38:02
Local clock offset: -0.065 ms
Remote clock offset: -1.973 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.08 Mbit/s
95th percentile per-packet one-way delay: 92.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.24 Mbit/s
95th percentile per-packet one-way delay: 90.221 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 94.233 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 91.819 ms
Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 22:57:51

End at: 2017-11-30 22:58:21

Local clock offset: -0.141 ms

Remote clock offset: 3.573 ms

Below is generated by plot.py at 2017-12-01 01:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.42 Mbit/s

95th percentile per-packet one-way delay: 97.695 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 97.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.32 Mbit/s

95th percentile per-packet one-way delay: 98.142 ms

Loss rate: 0.00%

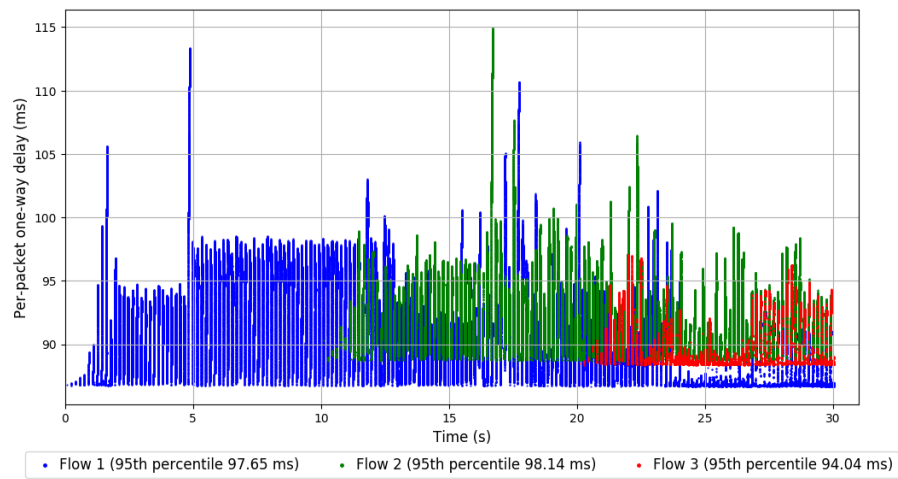
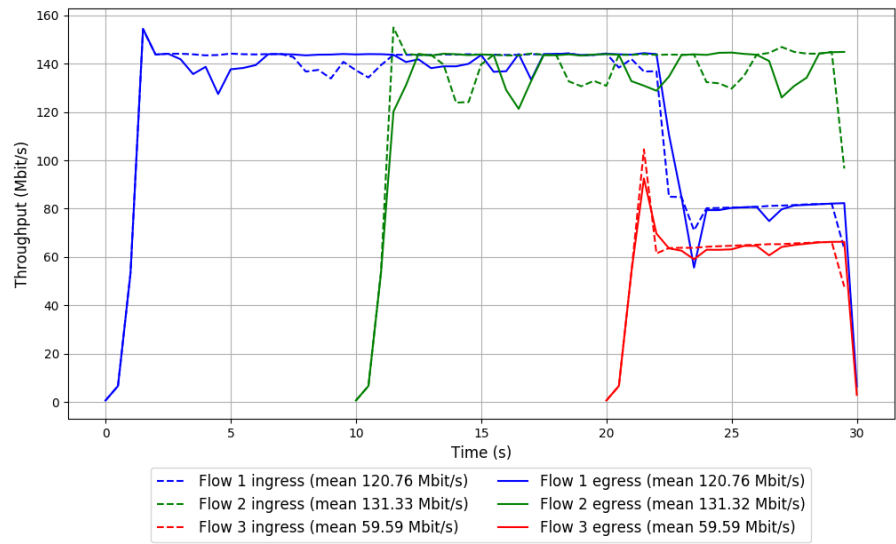
-- Flow 3:

Average throughput: 59.59 Mbit/s

95th percentile per-packet one-way delay: 94.043 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

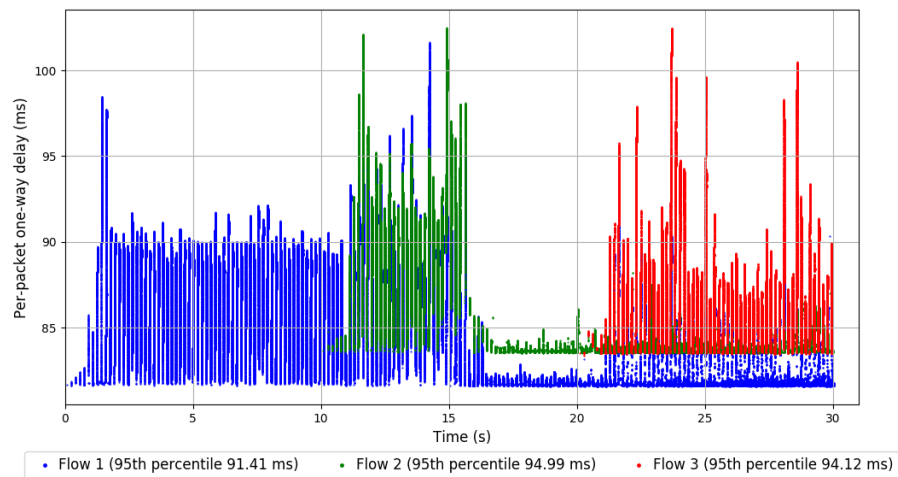
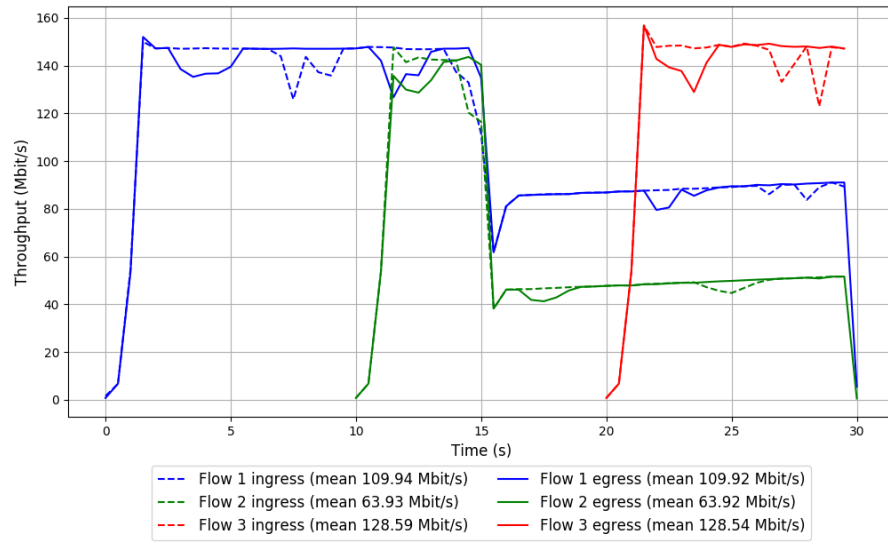


Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 23:18:01
End at: 2017-11-30 23:18:31
Local clock offset: -0.203 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.74 Mbit/s
95th percentile per-packet one-way delay: 93.253 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 109.92 Mbit/s
95th percentile per-packet one-way delay: 91.413 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 94.988 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 128.54 Mbit/s
95th percentile per-packet one-way delay: 94.116 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

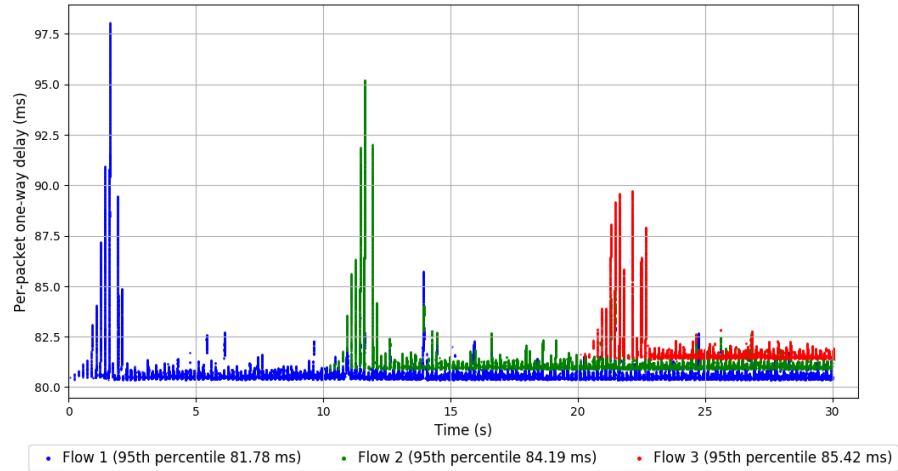
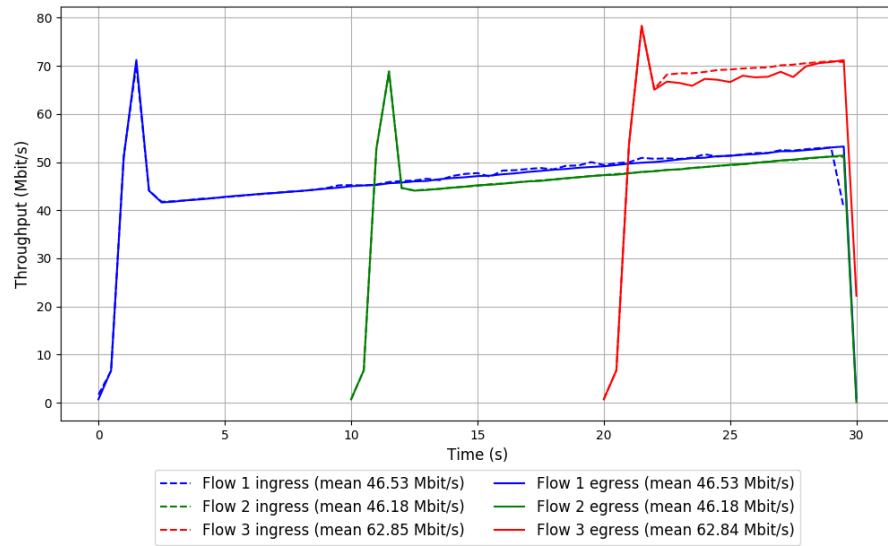


Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 23:38:06
End at: 2017-11-30 23:38:36
Local clock offset: -0.214 ms
Remote clock offset: -1.348 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 98.05 Mbit/s
95th percentile per-packet one-way delay: 83.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 81.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.18 Mbit/s
95th percentile per-packet one-way delay: 84.189 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 85.420 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 23:58:06

End at: 2017-11-30 23:58:36

Local clock offset: -0.273 ms

Remote clock offset: 2.79 ms

Below is generated by plot.py at 2017-12-01 01:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.22 Mbit/s

95th percentile per-packet one-way delay: 100.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 131.77 Mbit/s

95th percentile per-packet one-way delay: 102.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.14 Mbit/s

95th percentile per-packet one-way delay: 98.333 ms

Loss rate: 0.00%

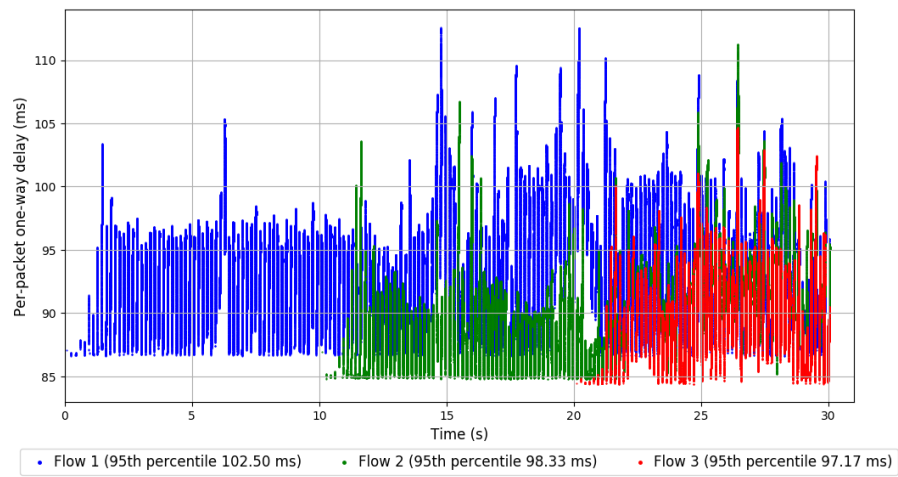
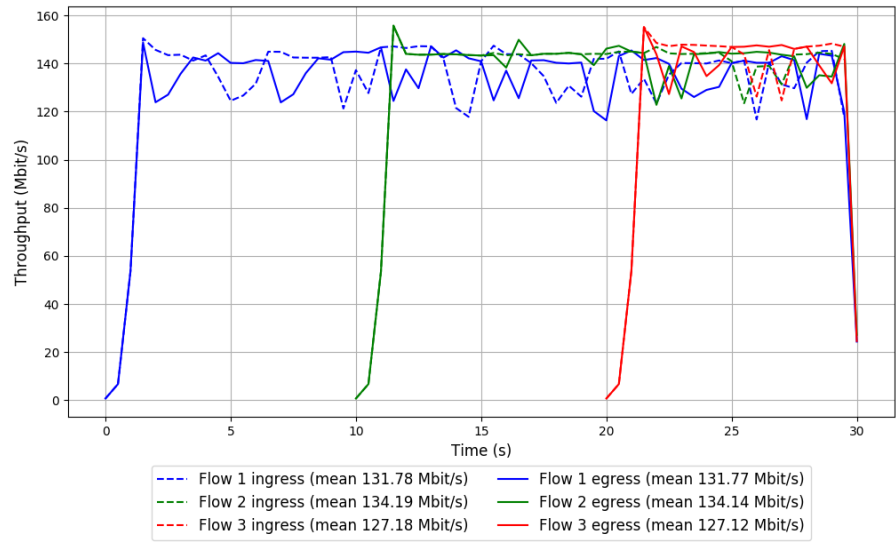
-- Flow 3:

Average throughput: 127.12 Mbit/s

95th percentile per-packet one-way delay: 97.169 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

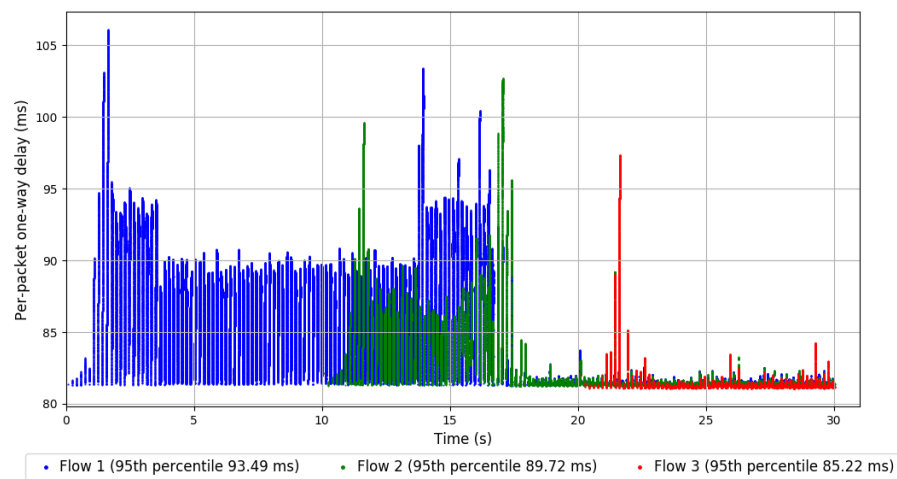
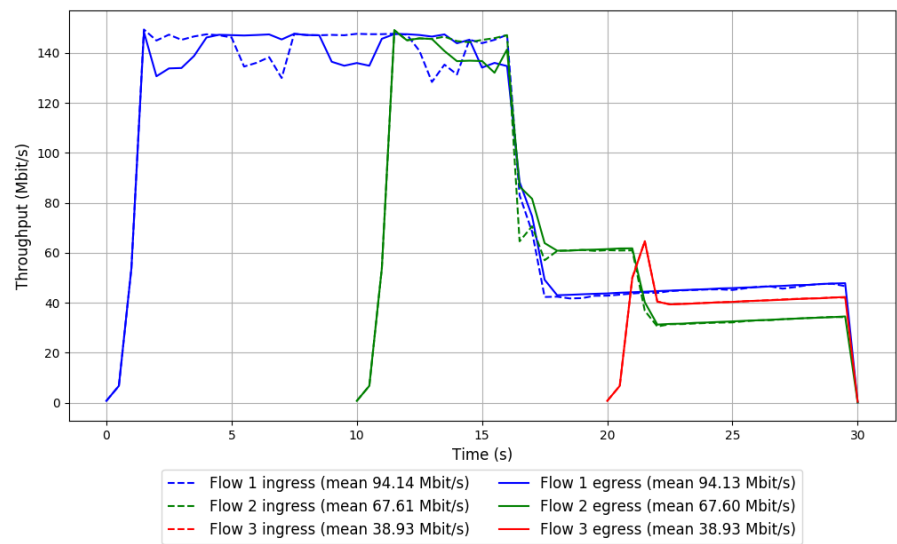


Run 10: Statistics of TCP Vegas

Start at: 2017-12-01 00:18:16
End at: 2017-12-01 00:18:46
Local clock offset: -0.22 ms
Remote clock offset: -0.644 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.95 Mbit/s
95th percentile per-packet one-way delay: 93.097 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 93.487 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 89.725 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 38.93 Mbit/s
95th percentile per-packet one-way delay: 85.221 ms
Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link

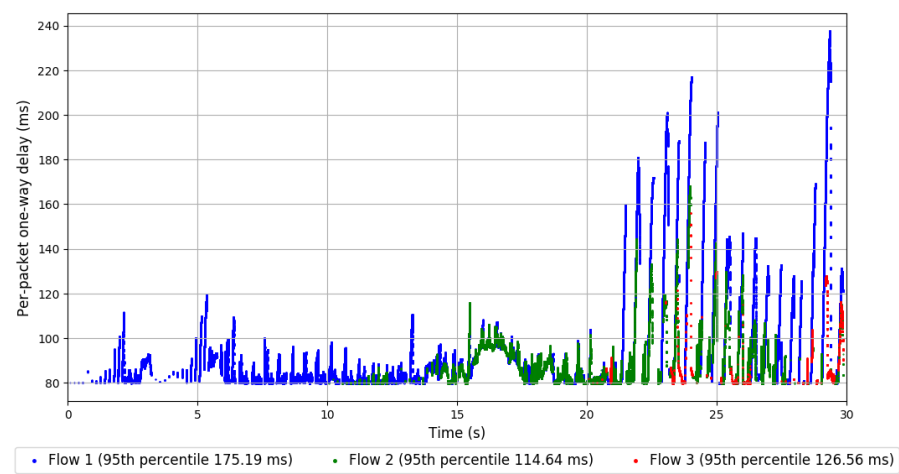
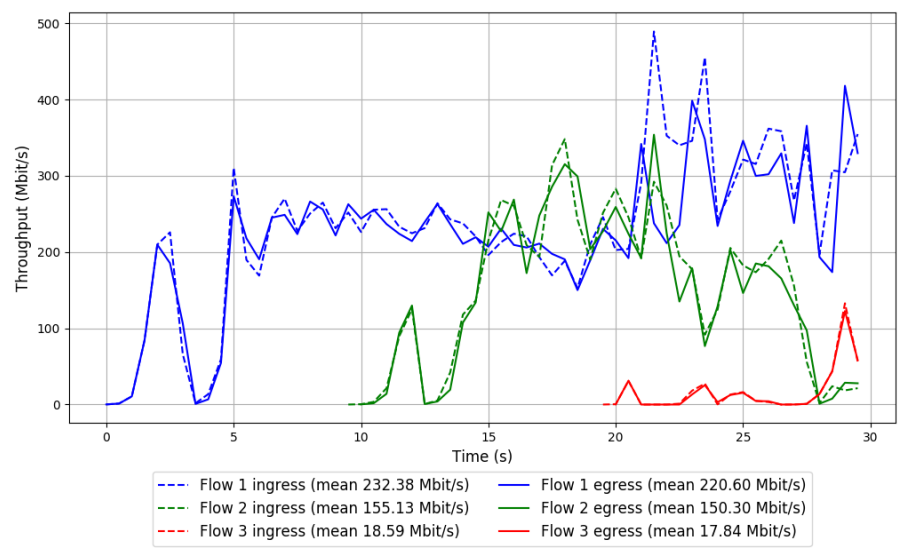


Run 1: Statistics of Verus

Start at: 2017-11-30 21:10:19
End at: 2017-11-30 21:10:49
Local clock offset: 0.475 ms
Remote clock offset: -5.006 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 326.42 Mbit/s
95th percentile per-packet one-way delay: 163.133 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 220.60 Mbit/s
95th percentile per-packet one-way delay: 175.192 ms
Loss rate: 4.98%
-- Flow 2:
Average throughput: 150.30 Mbit/s
95th percentile per-packet one-way delay: 114.644 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 126.560 ms
Loss rate: 3.97%

Run 1: Report of Verus — Data Link

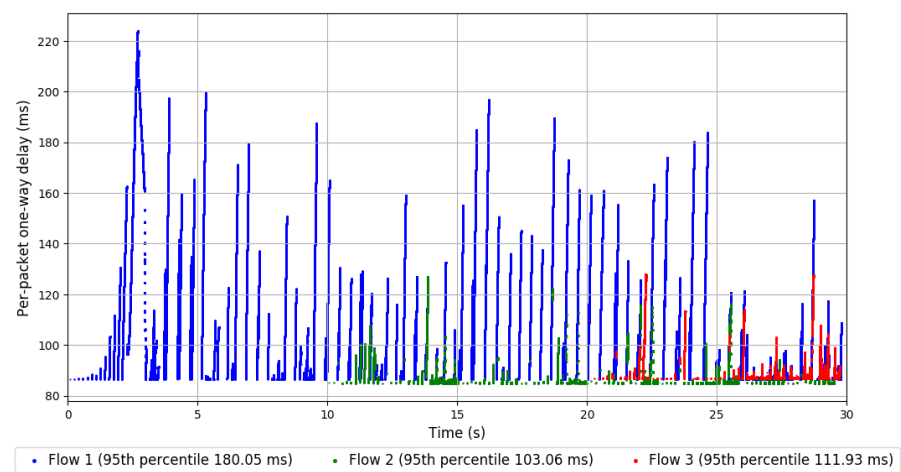
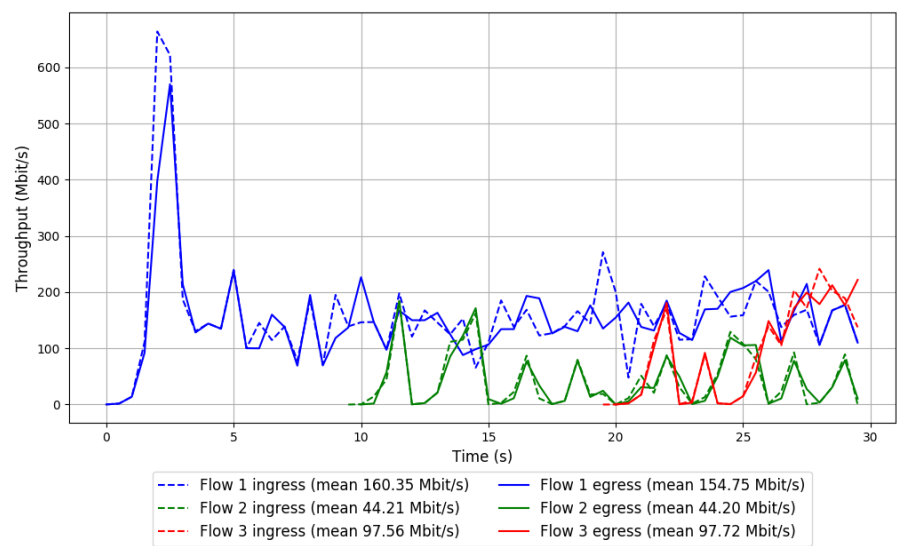


Run 2: Statistics of Verus

Start at: 2017-11-30 21:30:12
End at: 2017-11-30 21:30:42
Local clock offset: 0.329 ms
Remote clock offset: 1.345 ms

Below is generated by plot.py at 2017-12-01 01:58:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.76 Mbit/s
95th percentile per-packet one-way delay: 172.489 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 154.75 Mbit/s
95th percentile per-packet one-way delay: 180.053 ms
Loss rate: 3.42%
-- Flow 2:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 103.065 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 97.72 Mbit/s
95th percentile per-packet one-way delay: 111.932 ms
Loss rate: 0.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 21:50:06

End at: 2017-11-30 21:50:36

Local clock offset: 0.197 ms

Remote clock offset: 4.19 ms

Below is generated by plot.py at 2017-12-01 01:58:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.44 Mbit/s

95th percentile per-packet one-way delay: 215.448 ms

Loss rate: 14.81%

-- Flow 1:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 129.505 ms

Loss rate: 11.13%

-- Flow 2:

Average throughput: 297.88 Mbit/s

95th percentile per-packet one-way delay: 222.473 ms

Loss rate: 16.83%

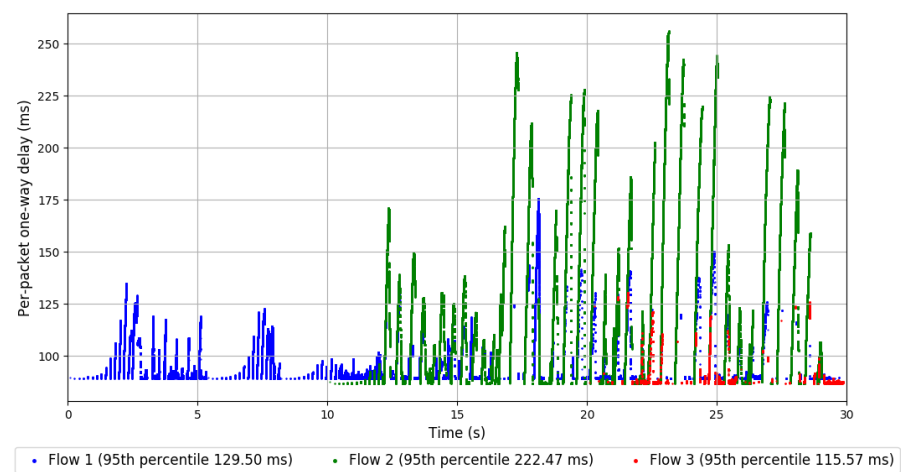
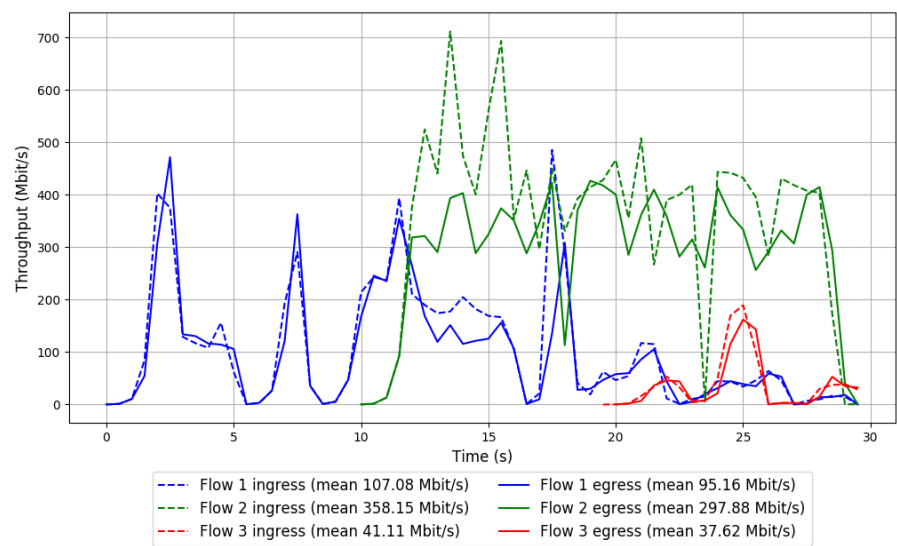
-- Flow 3:

Average throughput: 37.62 Mbit/s

95th percentile per-packet one-way delay: 115.574 ms

Loss rate: 8.49%

Run 3: Report of Verus — Data Link

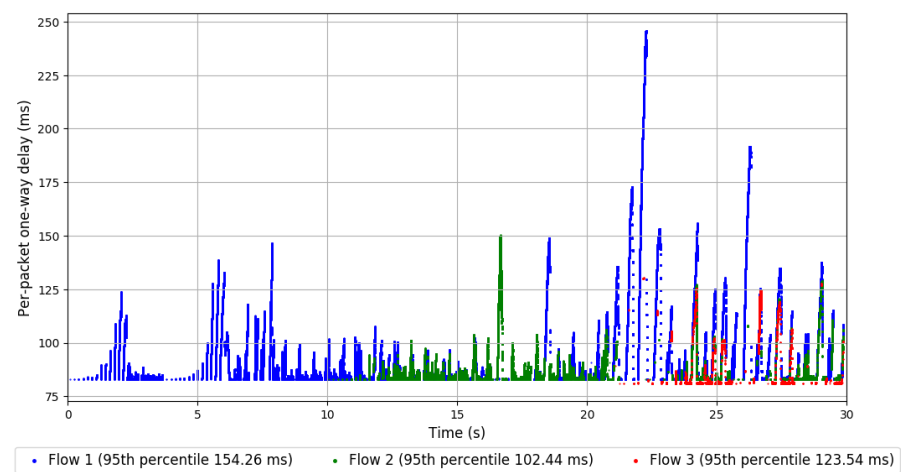
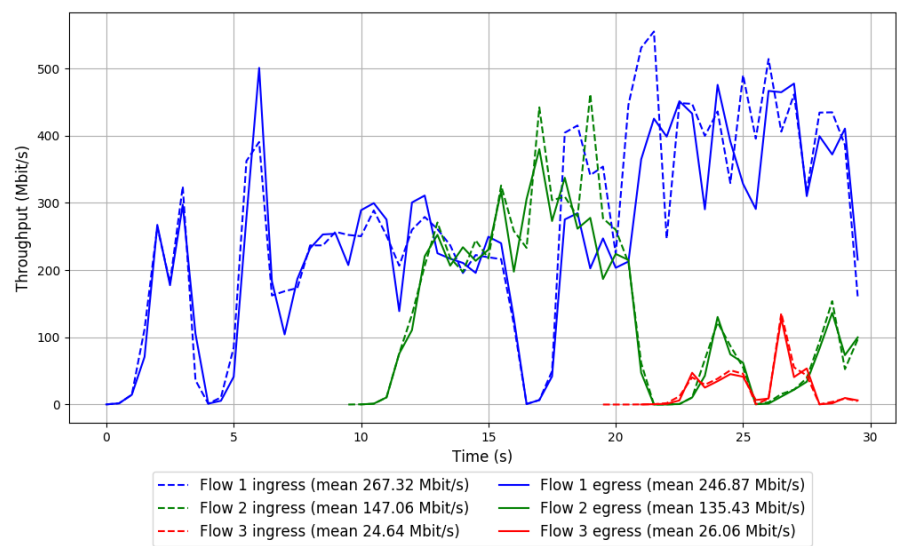


Run 4: Statistics of Verus

Start at: 2017-11-30 22:10:05
End at: 2017-11-30 22:10:35
Local clock offset: 0.015 ms
Remote clock offset: -1.531 ms

Below is generated by plot.py at 2017-12-01 01:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 344.60 Mbit/s
95th percentile per-packet one-way delay: 145.843 ms
Loss rate: 7.61%
-- Flow 1:
Average throughput: 246.87 Mbit/s
95th percentile per-packet one-way delay: 154.263 ms
Loss rate: 7.59%
-- Flow 2:
Average throughput: 135.43 Mbit/s
95th percentile per-packet one-way delay: 102.442 ms
Loss rate: 7.86%
-- Flow 3:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 123.542 ms
Loss rate: 4.99%

Run 4: Report of Verus — Data Link

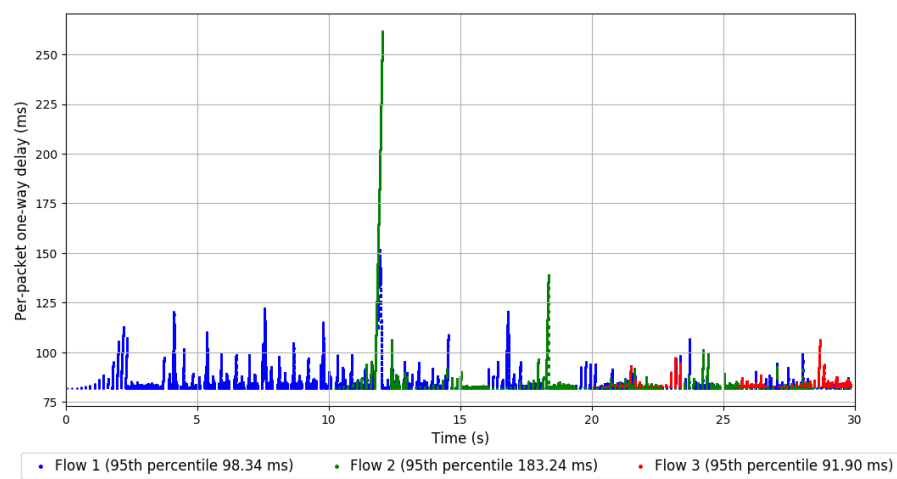
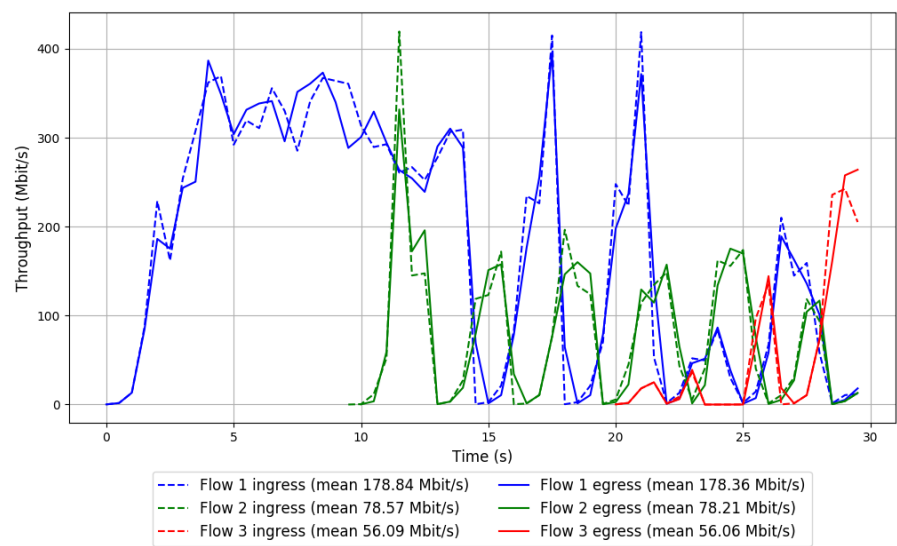


Run 5: Statistics of Verus

Start at: 2017-11-30 22:30:16
End at: 2017-11-30 22:30:46
Local clock offset: -0.037 ms
Remote clock offset: -3.065 ms

Below is generated by plot.py at 2017-12-01 01:59:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 248.08 Mbit/s
95th percentile per-packet one-way delay: 103.686 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 178.36 Mbit/s
95th percentile per-packet one-way delay: 98.342 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 78.21 Mbit/s
95th percentile per-packet one-way delay: 183.235 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 56.06 Mbit/s
95th percentile per-packet one-way delay: 91.903 ms
Loss rate: 0.05%

Run 5: Report of Verus — Data Link

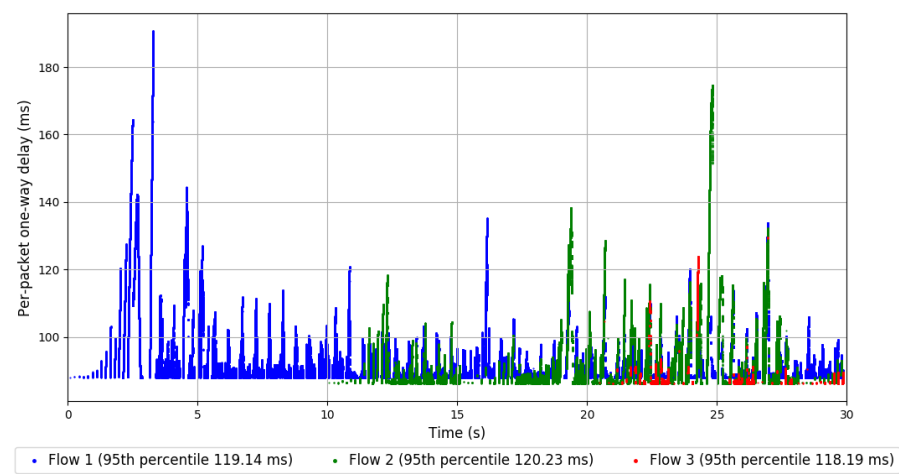
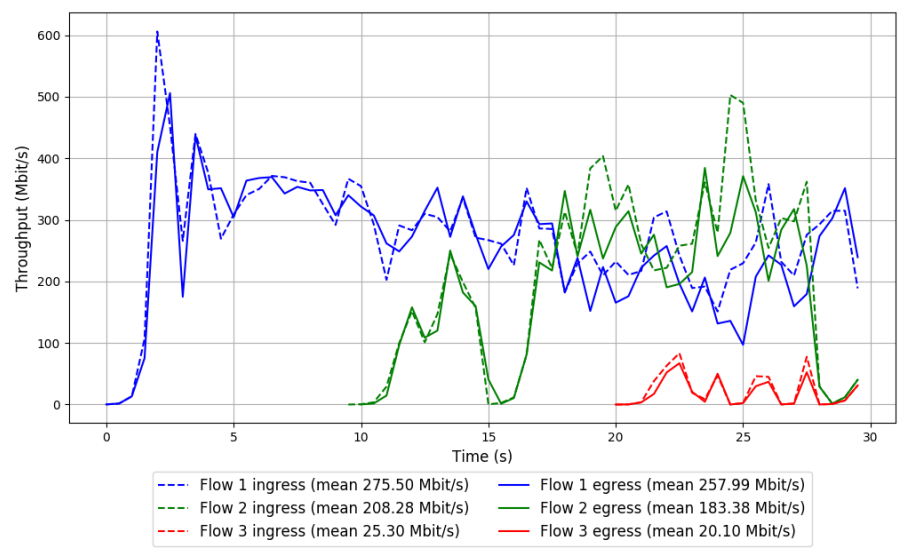


Run 6: Statistics of Verus

Start at: 2017-11-30 22:50:24
End at: 2017-11-30 22:50:54
Local clock offset: -0.103 ms
Remote clock offset: 2.835 ms

Below is generated by plot.py at 2017-12-01 02:00:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 385.91 Mbit/s
95th percentile per-packet one-way delay: 119.315 ms
Loss rate: 8.45%
-- Flow 1:
Average throughput: 257.99 Mbit/s
95th percentile per-packet one-way delay: 119.140 ms
Loss rate: 6.36%
-- Flow 2:
Average throughput: 183.38 Mbit/s
95th percentile per-packet one-way delay: 120.230 ms
Loss rate: 11.92%
-- Flow 3:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 118.190 ms
Loss rate: 20.53%

Run 6: Report of Verus — Data Link

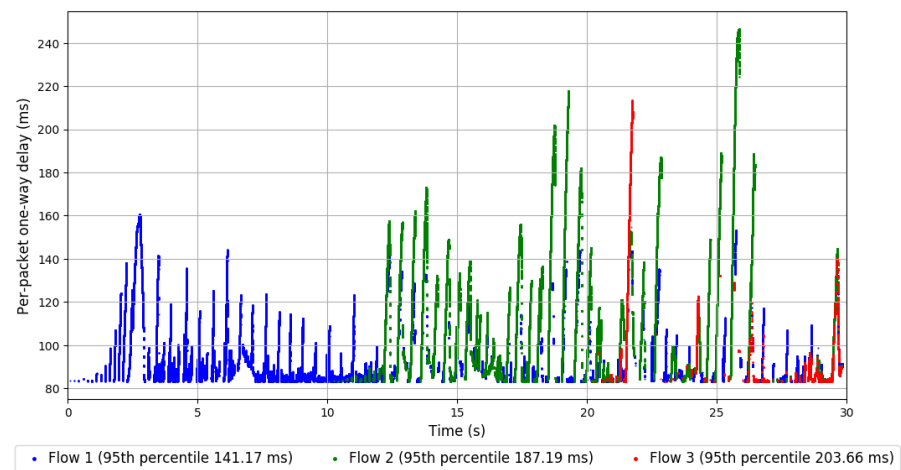
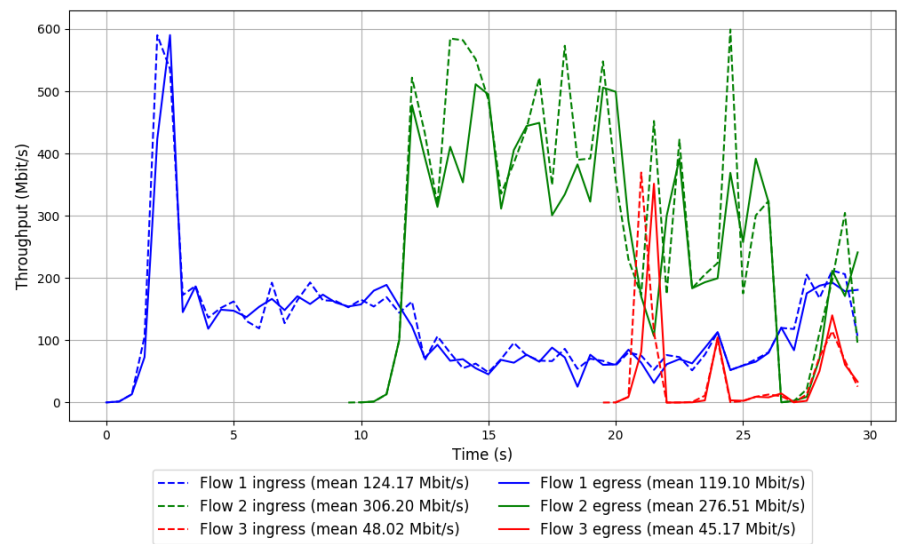


Run 7: Statistics of Verus

Start at: 2017-11-30 23:10:41
End at: 2017-11-30 23:11:11
Local clock offset: -0.168 ms
Remote clock offset: -1.582 ms

Below is generated by plot.py at 2017-12-01 02:00:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.16 Mbit/s
95th percentile per-packet one-way delay: 180.143 ms
Loss rate: 7.47%
-- Flow 1:
Average throughput: 119.10 Mbit/s
95th percentile per-packet one-way delay: 141.173 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 276.51 Mbit/s
95th percentile per-packet one-way delay: 187.186 ms
Loss rate: 9.66%
-- Flow 3:
Average throughput: 45.17 Mbit/s
95th percentile per-packet one-way delay: 203.662 ms
Loss rate: 6.07%

Run 7: Report of Verus — Data Link

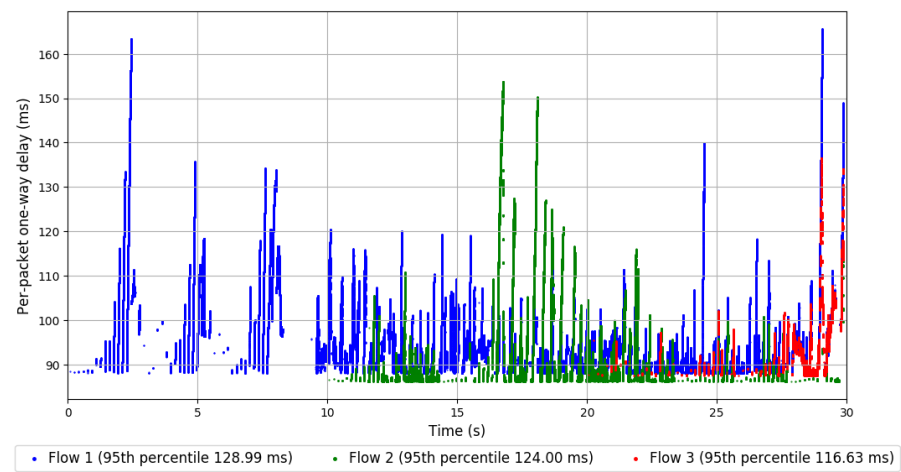
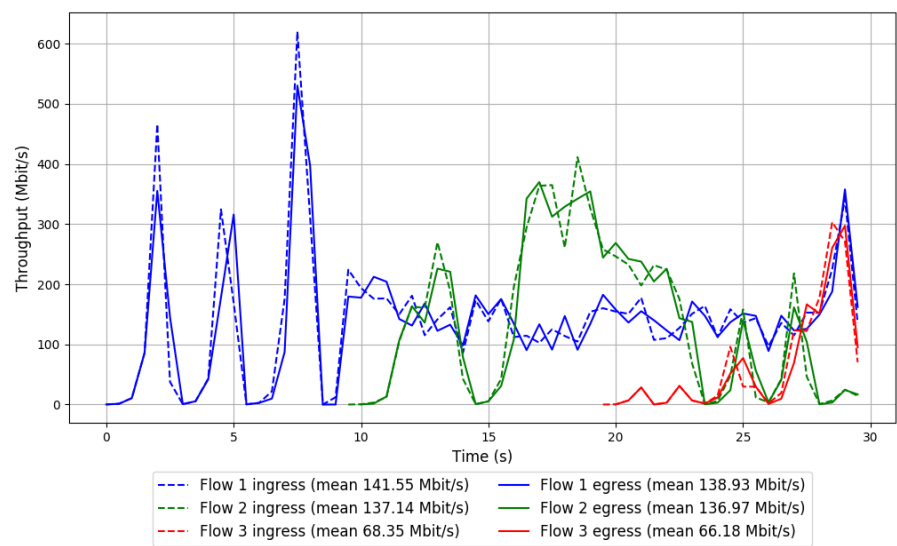


Run 8: Statistics of Verus

Start at: 2017-11-30 23:30:51
End at: 2017-11-30 23:31:21
Local clock offset: -0.264 ms
Remote clock offset: 4.153 ms

Below is generated by plot.py at 2017-12-01 02:00:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.76 Mbit/s
95th percentile per-packet one-way delay: 126.318 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 138.93 Mbit/s
95th percentile per-packet one-way delay: 128.993 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 136.97 Mbit/s
95th percentile per-packet one-way delay: 124.005 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 66.18 Mbit/s
95th percentile per-packet one-way delay: 116.630 ms
Loss rate: 2.95%

Run 8: Report of Verus — Data Link

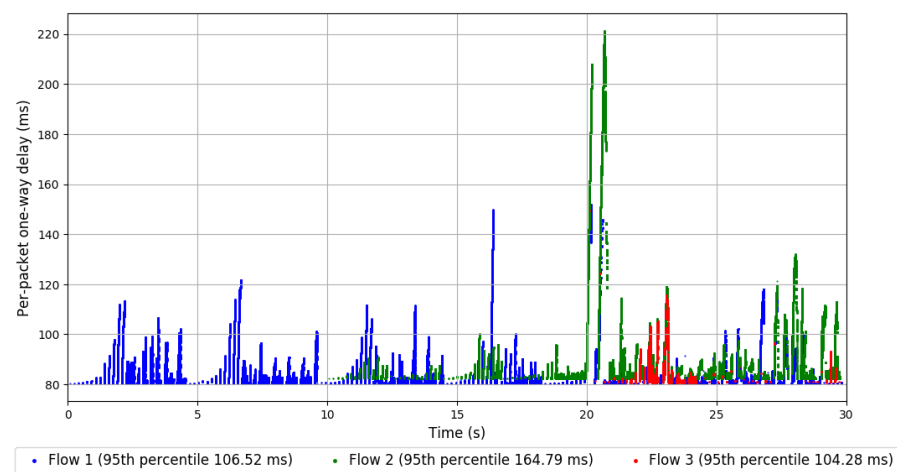
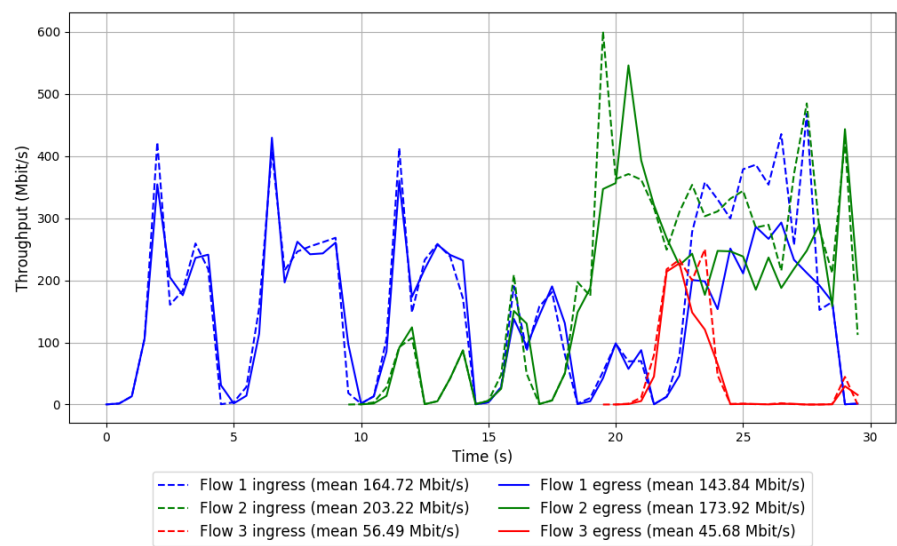


Run 9: Statistics of Verus

Start at: 2017-11-30 23:50:51
End at: 2017-11-30 23:51:21
Local clock offset: -0.204 ms
Remote clock offset: -1.291 ms

Below is generated by plot.py at 2017-12-01 02:01:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.76 Mbit/s
95th percentile per-packet one-way delay: 119.404 ms
Loss rate: 13.82%
-- Flow 1:
Average throughput: 143.84 Mbit/s
95th percentile per-packet one-way delay: 106.524 ms
Loss rate: 12.68%
-- Flow 2:
Average throughput: 173.92 Mbit/s
95th percentile per-packet one-way delay: 164.788 ms
Loss rate: 14.42%
-- Flow 3:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 104.279 ms
Loss rate: 19.72%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-01 00:10:53

End at: 2017-12-01 00:11:23

Local clock offset: -0.208 ms

Remote clock offset: 3.368 ms

Below is generated by plot.py at 2017-12-01 02:02:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.69 Mbit/s

95th percentile per-packet one-way delay: 144.151 ms

Loss rate: 6.98%

-- Flow 1:

Average throughput: 220.75 Mbit/s

95th percentile per-packet one-way delay: 160.249 ms

Loss rate: 7.16%

-- Flow 2:

Average throughput: 136.13 Mbit/s

95th percentile per-packet one-way delay: 121.168 ms

Loss rate: 7.23%

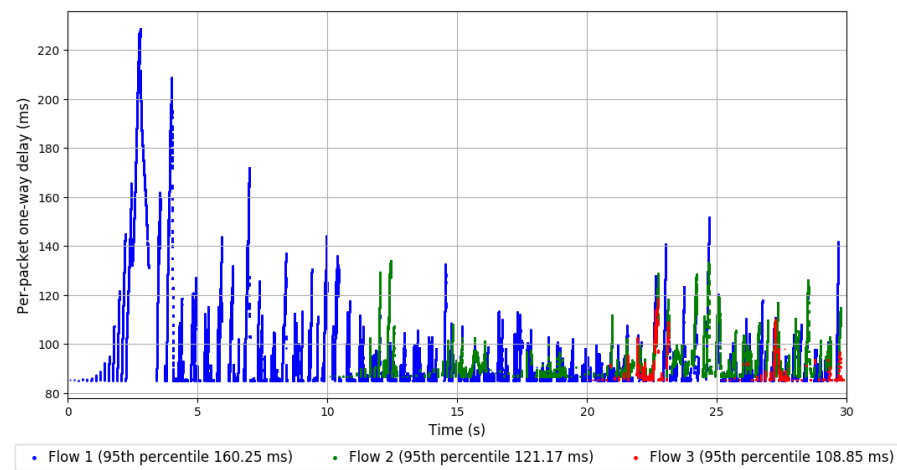
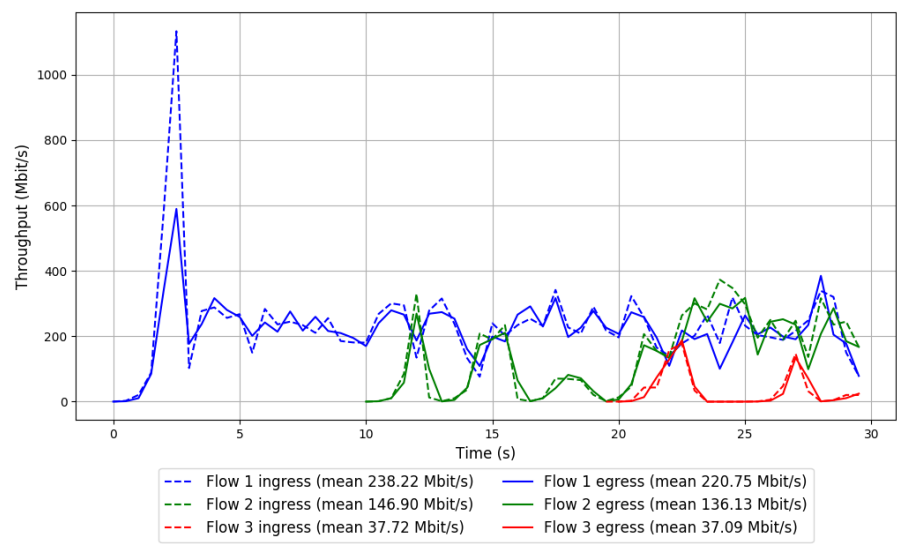
-- Flow 3:

Average throughput: 37.09 Mbit/s

95th percentile per-packet one-way delay: 108.852 ms

Loss rate: 1.67%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-30 21:13:33

End at: 2017-11-30 21:14:03

Local clock offset: 0.472 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2017-12-01 02:02:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 169.73 Mbit/s

95th percentile per-packet one-way delay: 86.879 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.00%

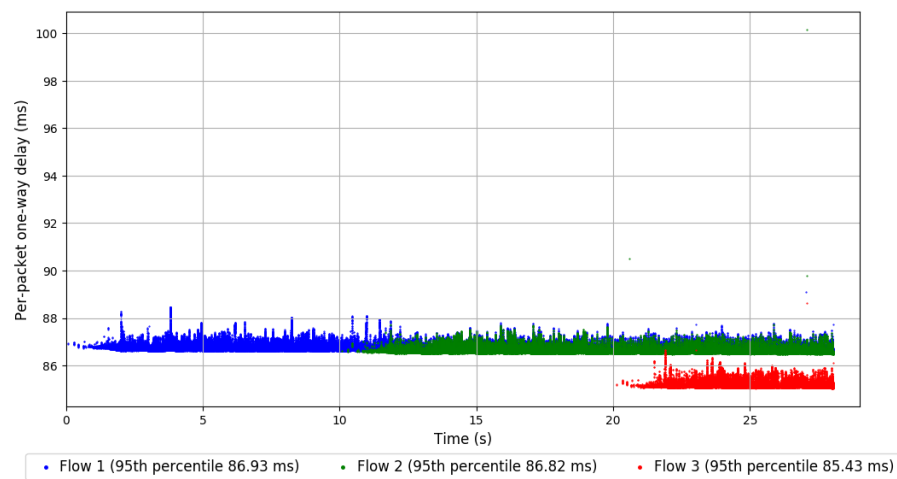
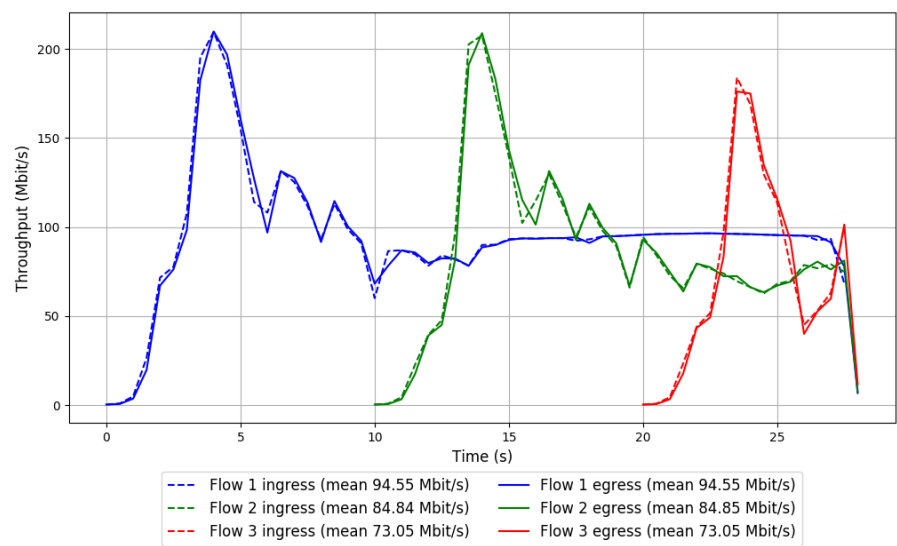
-- Flow 3:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 85.429 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 21:33:27

End at: 2017-11-30 21:33:57

Local clock offset: 0.327 ms

Remote clock offset: 2.249 ms

Below is generated by plot.py at 2017-12-01 02:02:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.39 Mbit/s

95th percentile per-packet one-way delay: 87.879 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 87.350 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.87 Mbit/s

95th percentile per-packet one-way delay: 87.391 ms

Loss rate: 0.01%

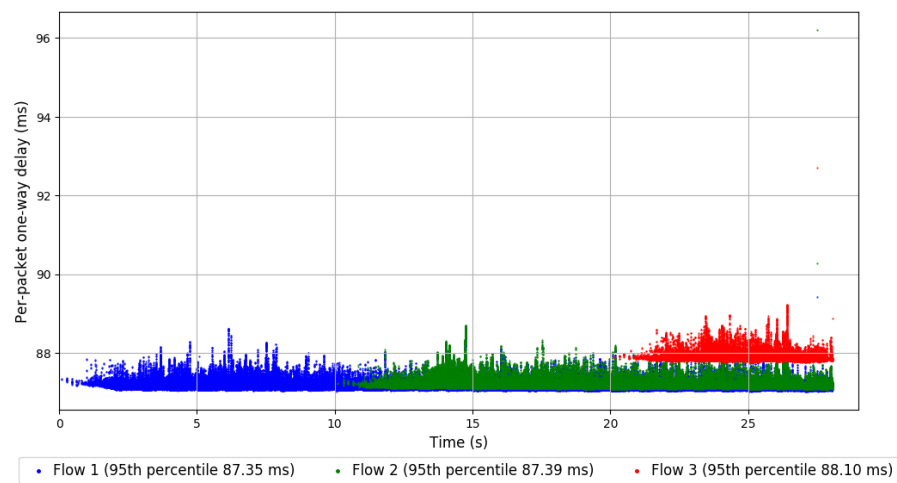
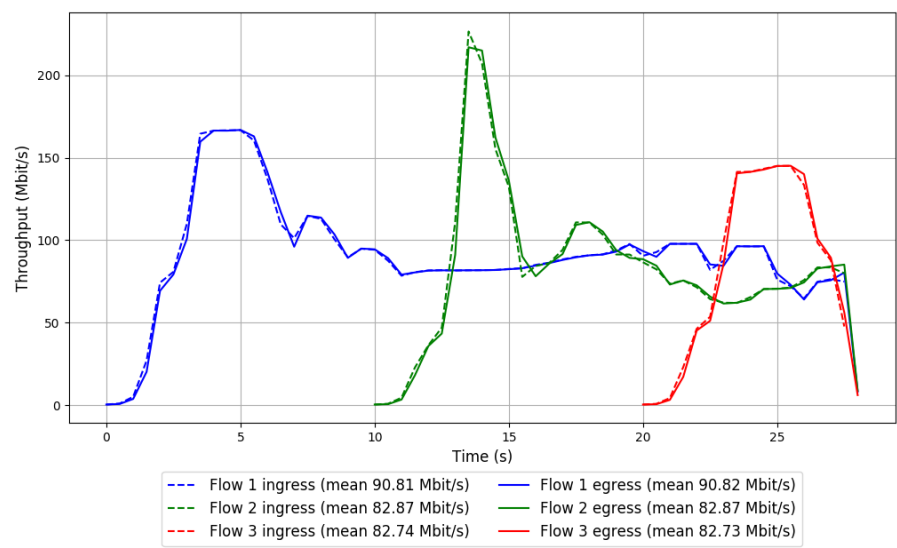
-- Flow 3:

Average throughput: 82.73 Mbit/s

95th percentile per-packet one-way delay: 88.099 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 21:53:28

End at: 2017-11-30 21:53:58

Local clock offset: 0.168 ms

Remote clock offset: 3.963 ms

Below is generated by plot.py at 2017-12-01 02:03:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.91 Mbit/s

95th percentile per-packet one-way delay: 88.103 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.73 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 87.339 ms

Loss rate: 0.00%

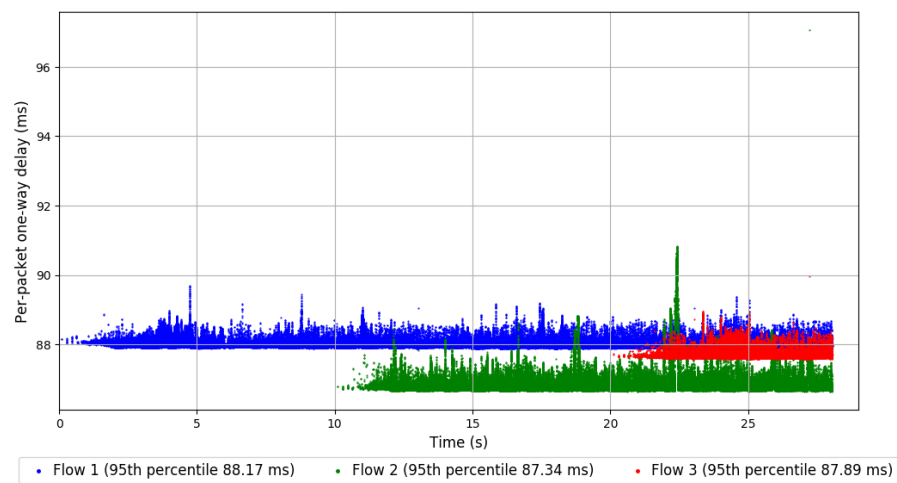
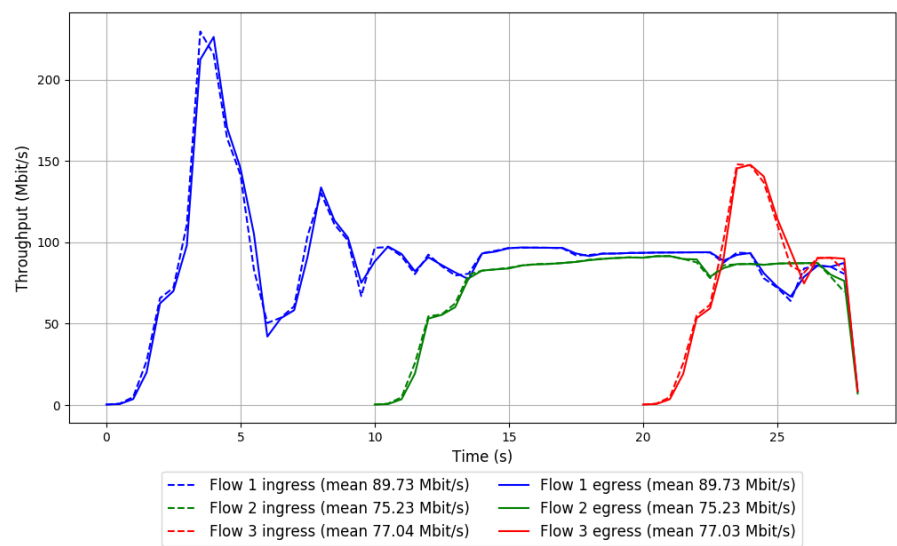
-- Flow 3:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 87.895 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

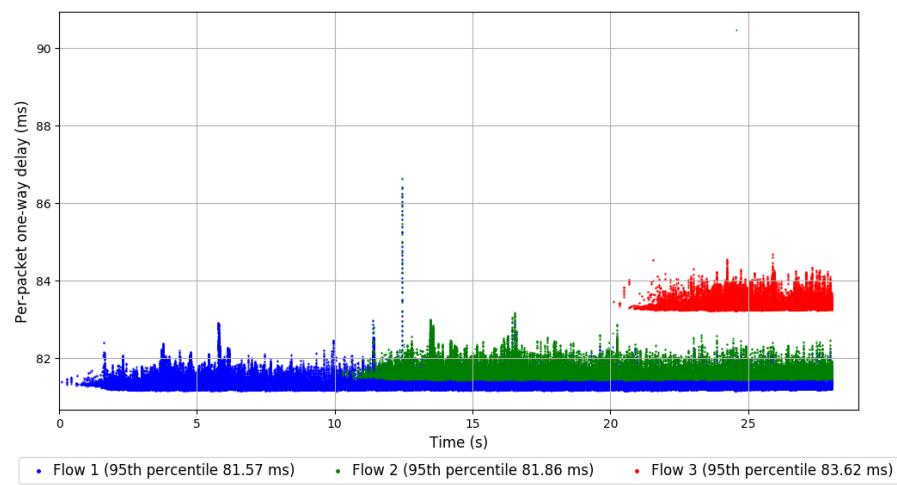
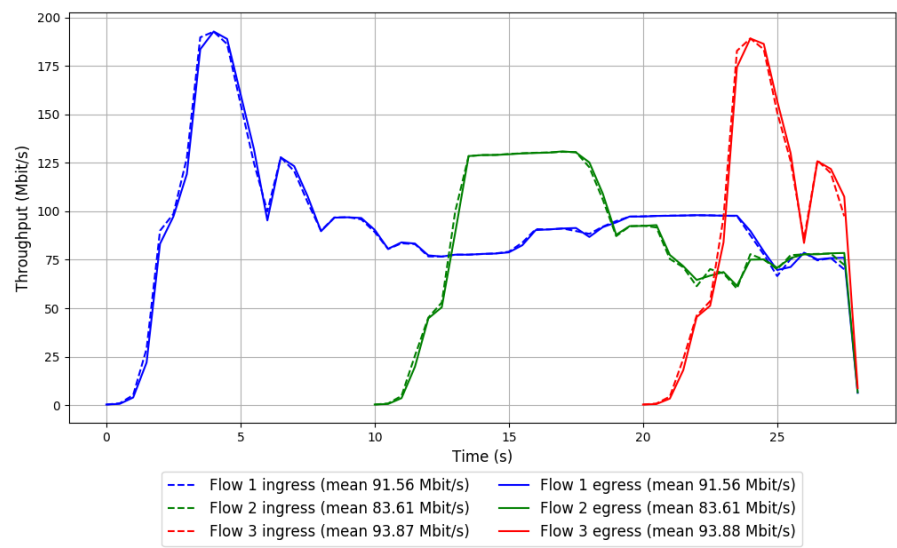


Run 4: Statistics of Copa

Start at: 2017-11-30 22:13:34
End at: 2017-11-30 22:14:04
Local clock offset: 0.073 ms
Remote clock offset: -1.054 ms

Below is generated by plot.py at 2017-12-01 02:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.83 Mbit/s
95th percentile per-packet one-way delay: 83.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.56 Mbit/s
95th percentile per-packet one-way delay: 81.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 81.857 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 83.617 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 22:33:35

End at: 2017-11-30 22:34:05

Local clock offset: -0.099 ms

Remote clock offset: 3.057 ms

Below is generated by plot.py at 2017-12-01 02:04:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.08 Mbit/s

95th percentile per-packet one-way delay: 88.444 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 88.456 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.33 Mbit/s

95th percentile per-packet one-way delay: 87.144 ms

Loss rate: 0.00%

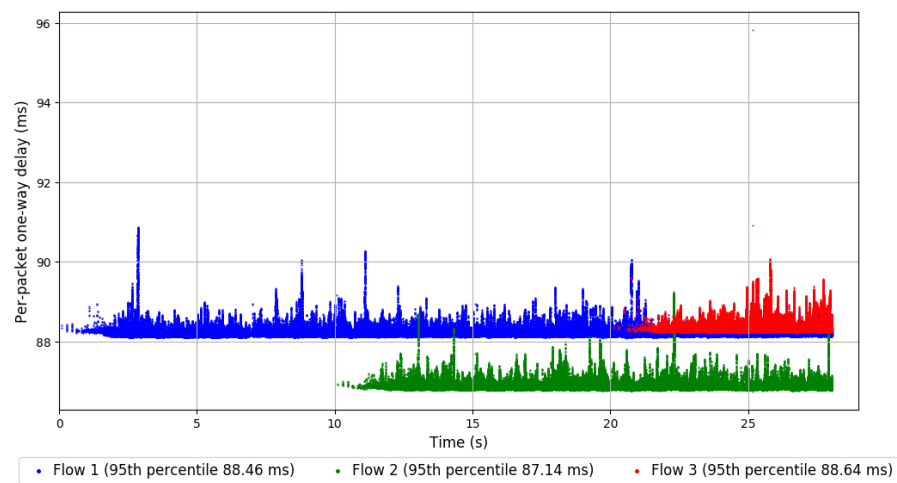
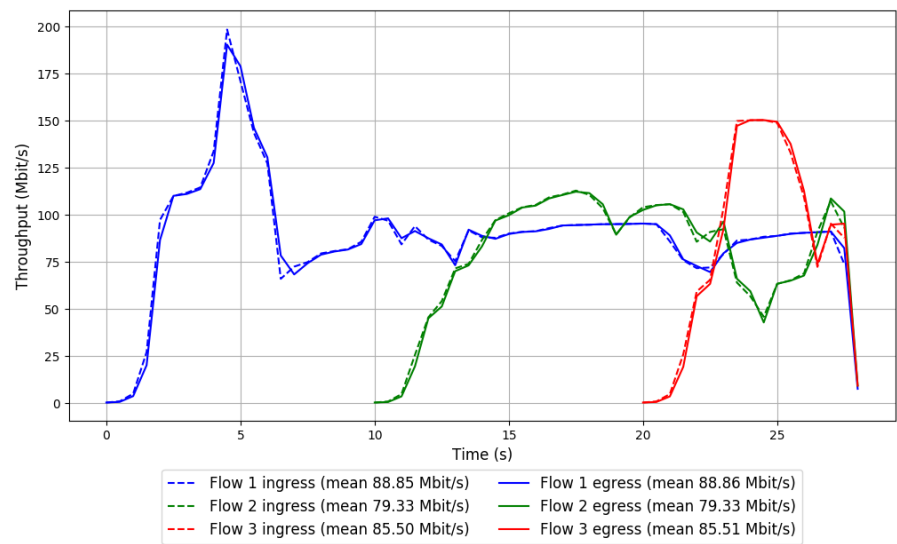
-- Flow 3:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 88.643 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 22:53:54

End at: 2017-11-30 22:54:24

Local clock offset: -0.12 ms

Remote clock offset: 2.557 ms

Below is generated by plot.py at 2017-12-01 02:05:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.94 Mbit/s

95th percentile per-packet one-way delay: 88.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 88.869 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 86.977 ms

Loss rate: 0.00%

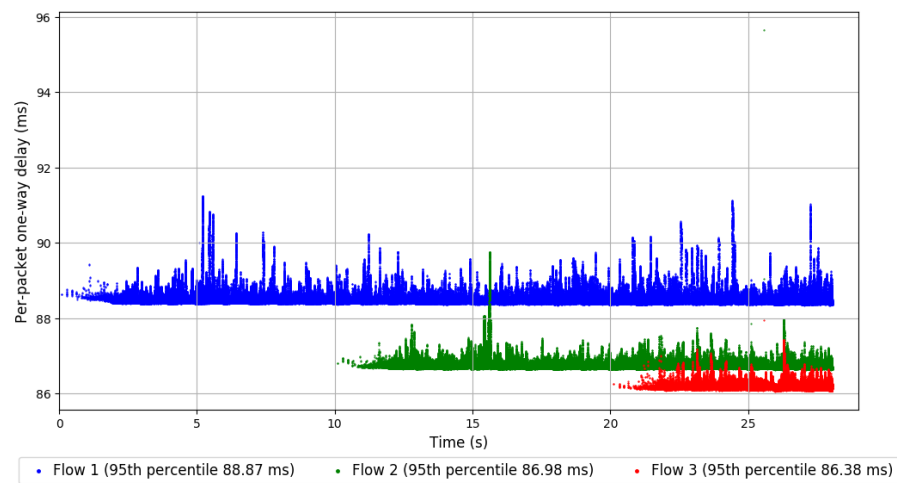
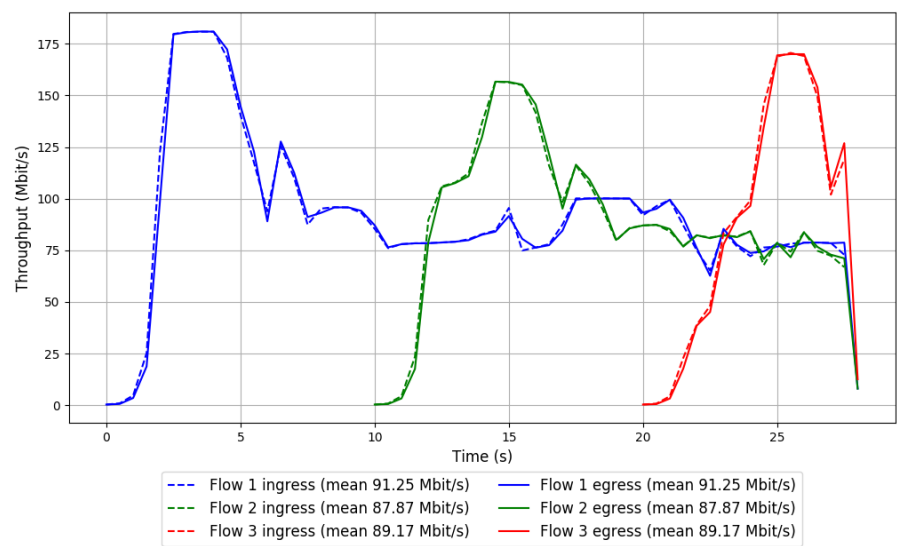
-- Flow 3:

Average throughput: 89.17 Mbit/s

95th percentile per-packet one-way delay: 86.378 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

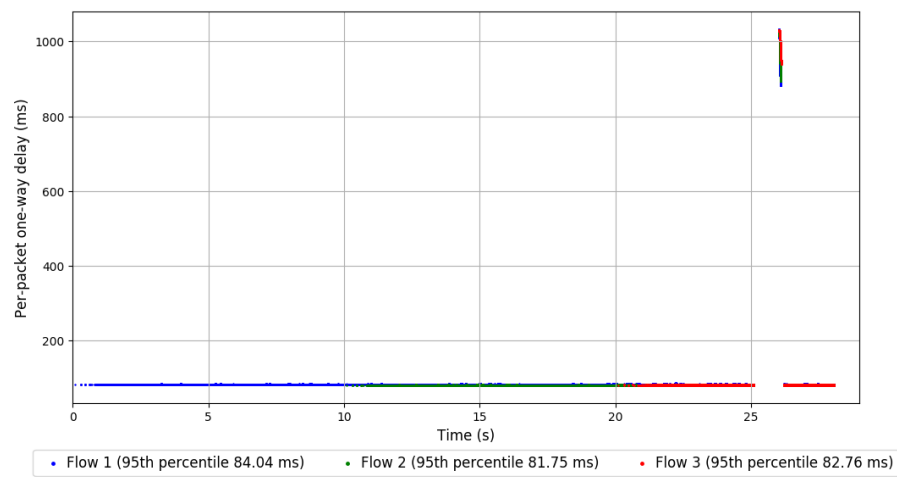
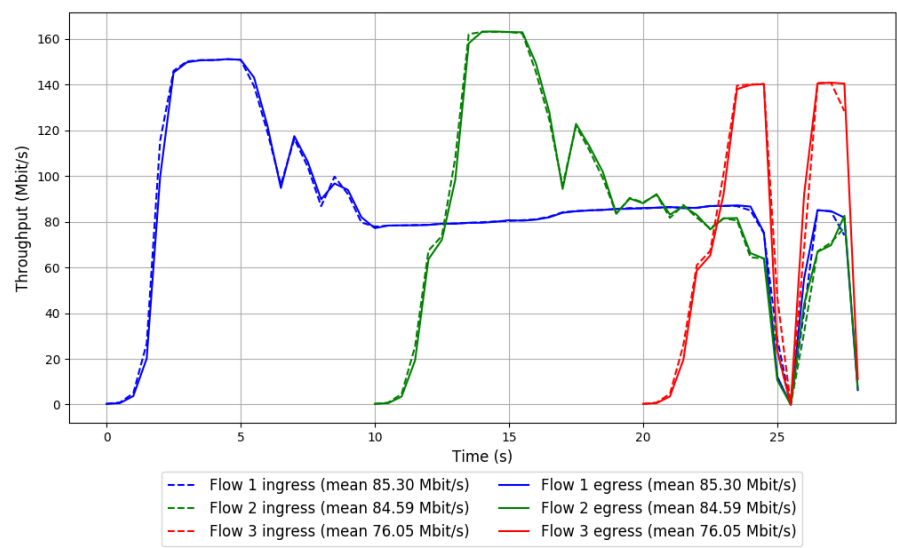


Run 7: Statistics of Copa

Start at: 2017-11-30 23:14:05
End at: 2017-11-30 23:14:35
Local clock offset: -0.232 ms
Remote clock offset: -0.773 ms

Below is generated by plot.py at 2017-12-01 02:05:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 161.16 Mbit/s
95th percentile per-packet one-way delay: 83.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.30 Mbit/s
95th percentile per-packet one-way delay: 84.036 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 81.745 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.05 Mbit/s
95th percentile per-packet one-way delay: 82.757 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

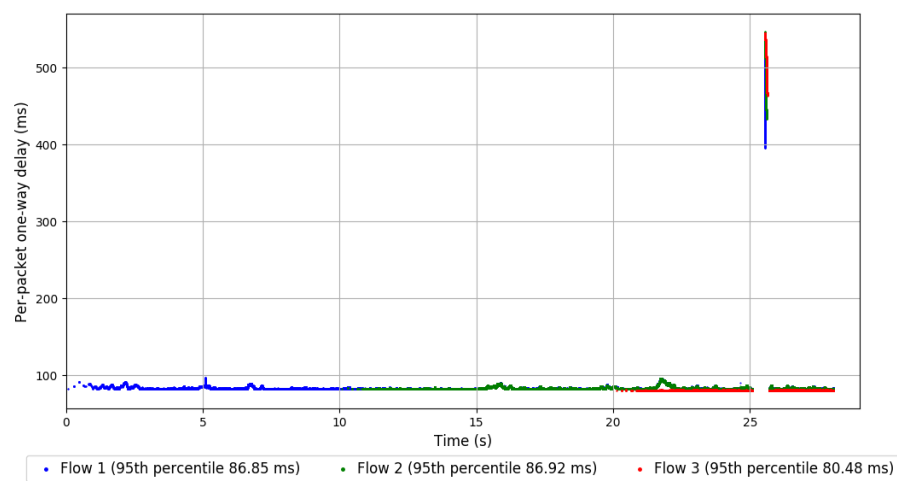
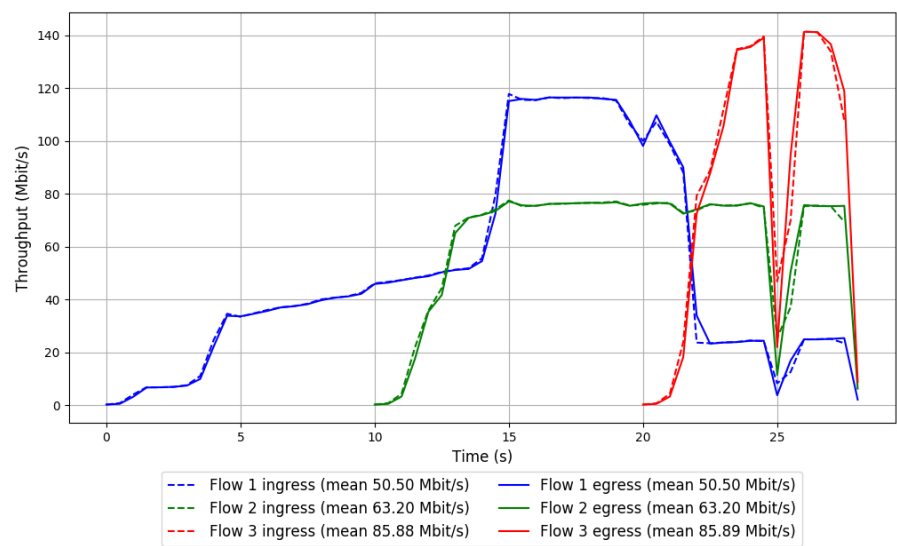


Run 8: Statistics of Copa

Start at: 2017-11-30 23:34:13
End at: 2017-11-30 23:34:43
Local clock offset: -0.192 ms
Remote clock offset: -2.148 ms

Below is generated by plot.py at 2017-12-01 02:05:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.44 Mbit/s
95th percentile per-packet one-way delay: 86.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.50 Mbit/s
95th percentile per-packet one-way delay: 86.846 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.20 Mbit/s
95th percentile per-packet one-way delay: 86.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 80.477 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

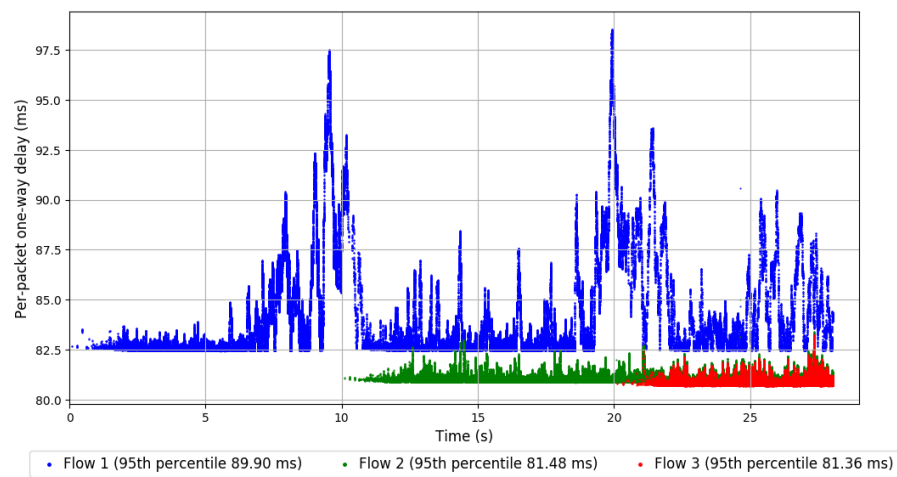
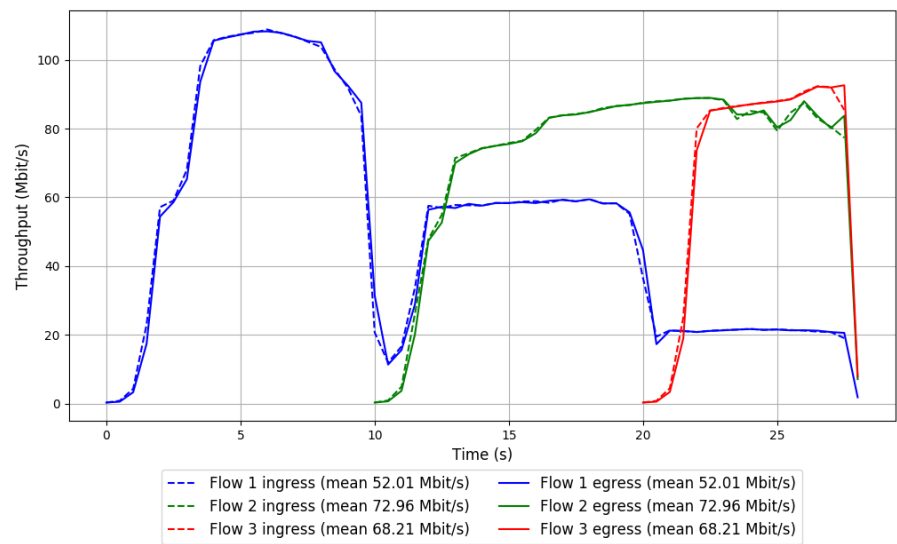


Run 9: Statistics of Copa

Start at: 2017-11-30 23:54:13
End at: 2017-11-30 23:54:43
Local clock offset: -0.206 ms
Remote clock offset: -1.142 ms

Below is generated by plot.py at 2017-12-01 02:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.16 Mbit/s
95th percentile per-packet one-way delay: 87.444 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 89.897 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.96 Mbit/s
95th percentile per-packet one-way delay: 81.478 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 81.364 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

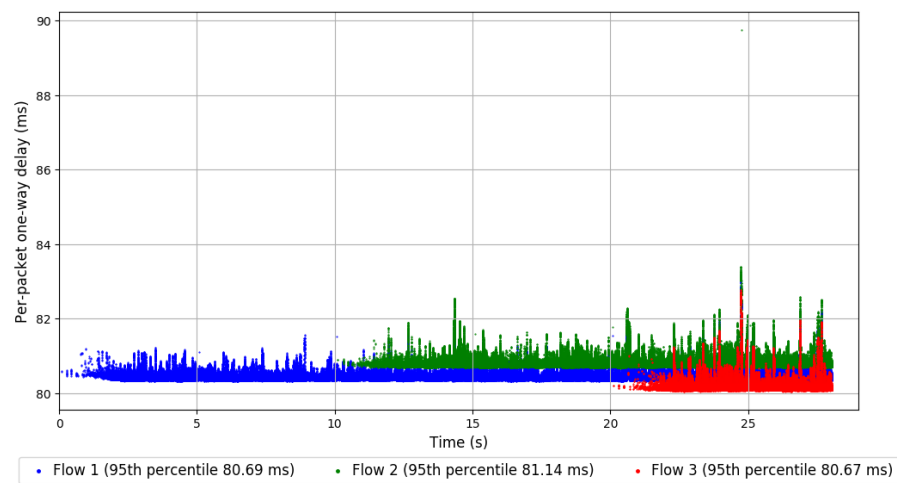
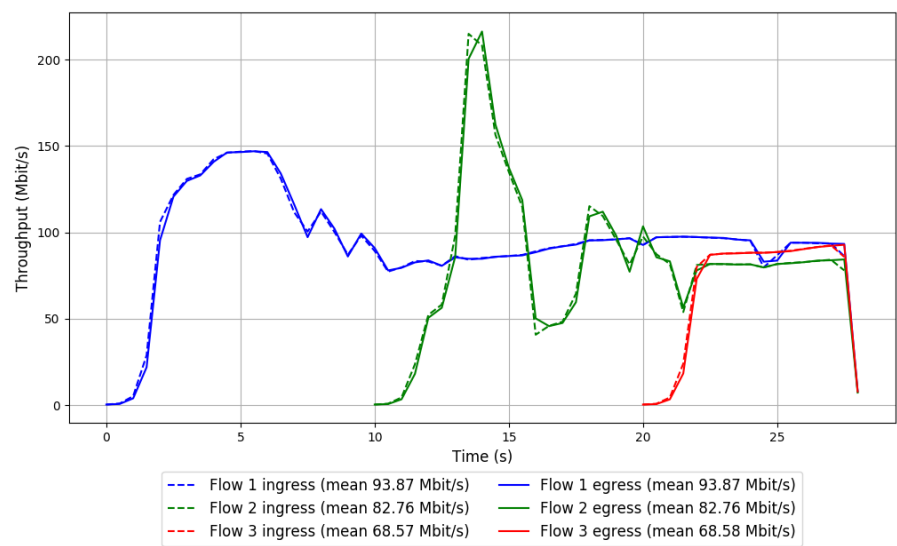


Run 10: Statistics of Copa

Start at: 2017-12-01 00:14:18
End at: 2017-12-01 00:14:48
Local clock offset: -0.194 ms
Remote clock offset: -1.589 ms

Below is generated by plot.py at 2017-12-01 02:07:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 166.40 Mbit/s
95th percentile per-packet one-way delay: 80.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 80.695 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 81.142 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.58 Mbit/s
95th percentile per-packet one-way delay: 80.670 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

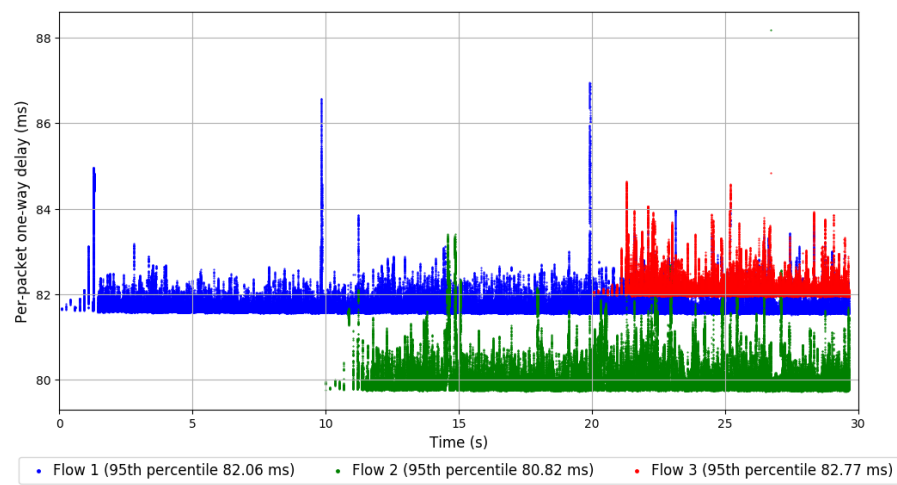
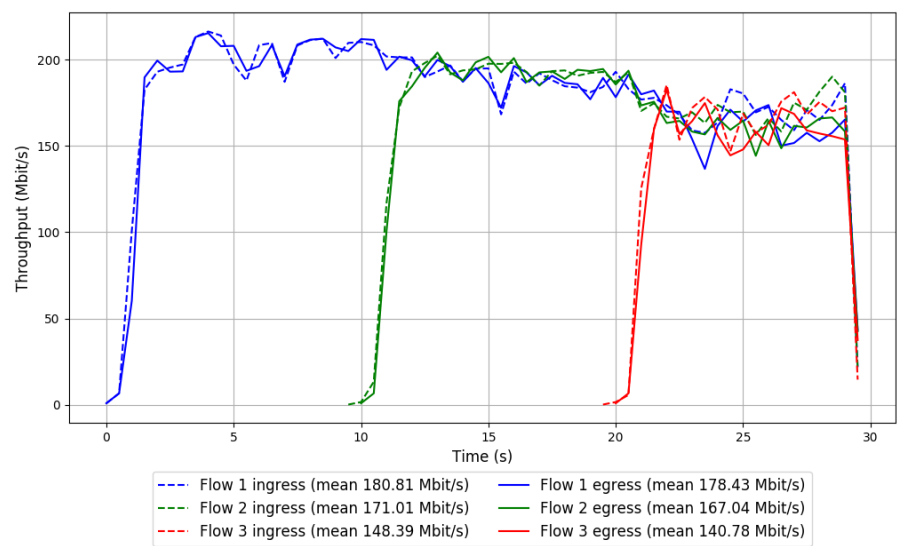


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 21:23:10
End at: 2017-11-30 21:23:40
Local clock offset: 0.362 ms
Remote clock offset: -4.082 ms

# Below is generated by plot.py at 2017-12-01 02:07:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.02 Mbit/s
95th percentile per-packet one-way delay: 82.196 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 178.43 Mbit/s
95th percentile per-packet one-way delay: 82.056 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 167.04 Mbit/s
95th percentile per-packet one-way delay: 80.819 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 140.78 Mbit/s
95th percentile per-packet one-way delay: 82.765 ms
Loss rate: 5.13%
```


Run 1: Report of Indigo — Data Link

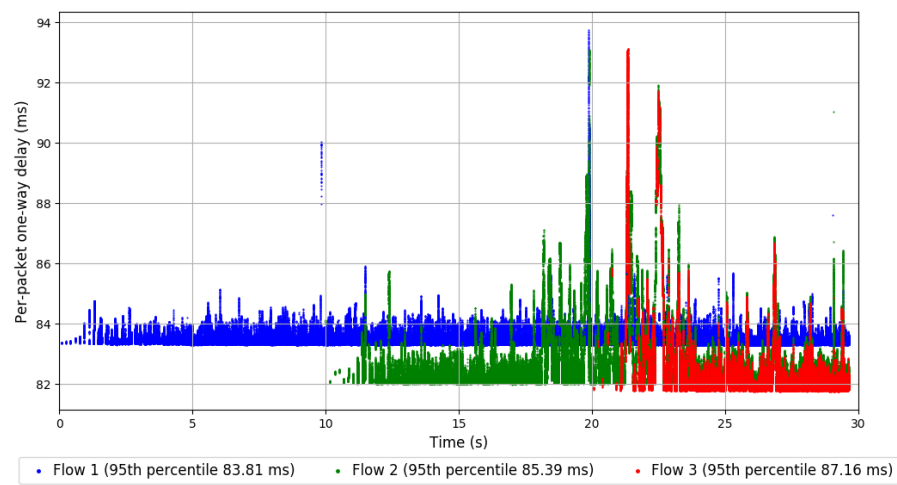
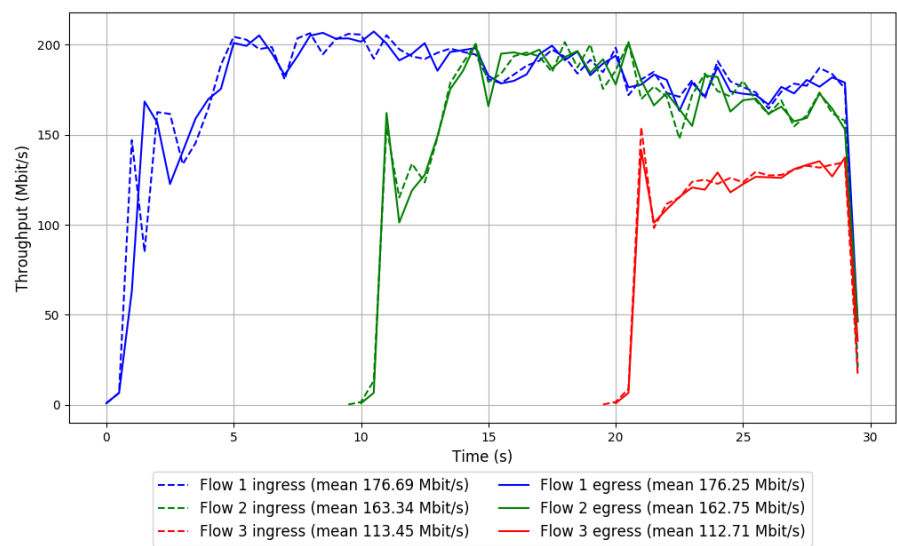


Run 2: Statistics of Indigo

Start at: 2017-11-30 21:43:02
End at: 2017-11-30 21:43:32
Local clock offset: 0.168 ms
Remote clock offset: -1.046 ms

Below is generated by plot.py at 2017-12-01 02:08:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.93 Mbit/s
95th percentile per-packet one-way delay: 84.390 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 176.25 Mbit/s
95th percentile per-packet one-way delay: 83.813 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 162.75 Mbit/s
95th percentile per-packet one-way delay: 85.389 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 112.71 Mbit/s
95th percentile per-packet one-way delay: 87.162 ms
Loss rate: 0.65%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 22:03:04

End at: 2017-11-30 22:03:34

Local clock offset: 0.057 ms

Remote clock offset: 4.774 ms

Below is generated by plot.py at 2017-12-01 02:09:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.66 Mbit/s

95th percentile per-packet one-way delay: 89.386 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 172.02 Mbit/s

95th percentile per-packet one-way delay: 89.310 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 163.49 Mbit/s

95th percentile per-packet one-way delay: 89.463 ms

Loss rate: 2.16%

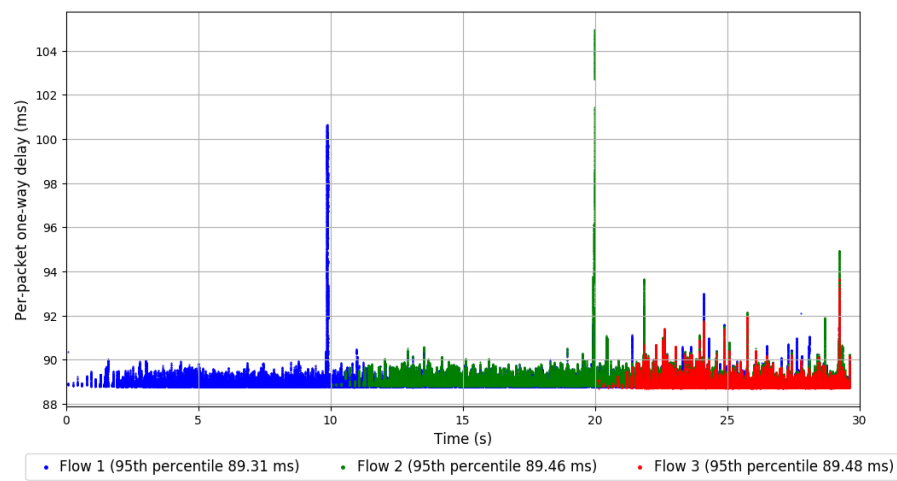
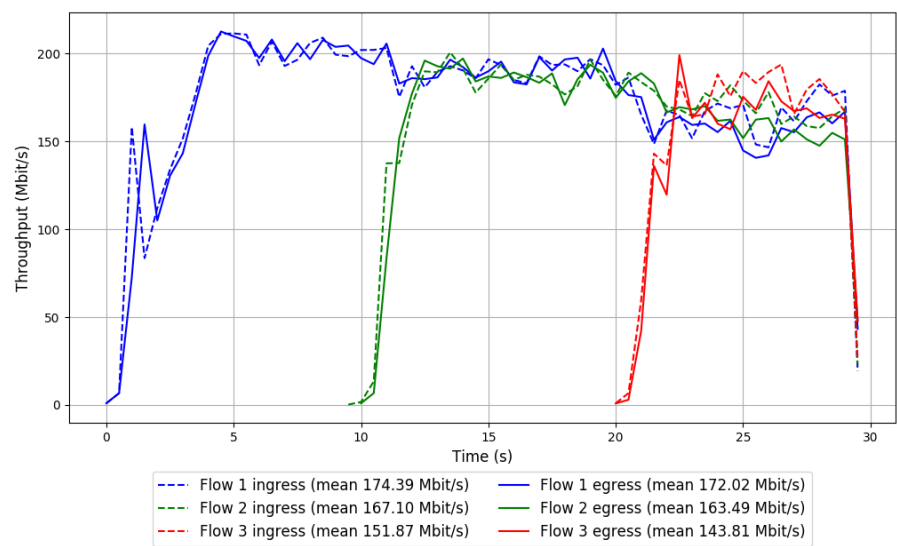
-- Flow 3:

Average throughput: 143.81 Mbit/s

95th percentile per-packet one-way delay: 89.476 ms

Loss rate: 5.30%

Run 3: Report of Indigo — Data Link

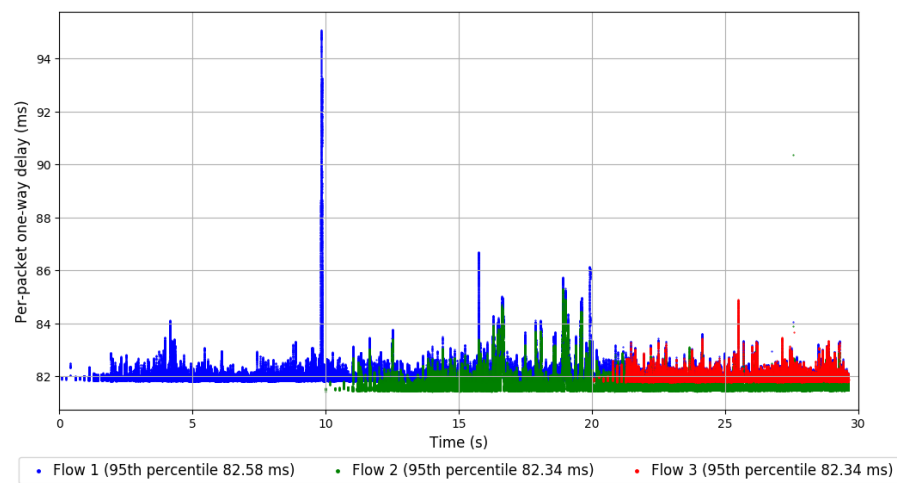
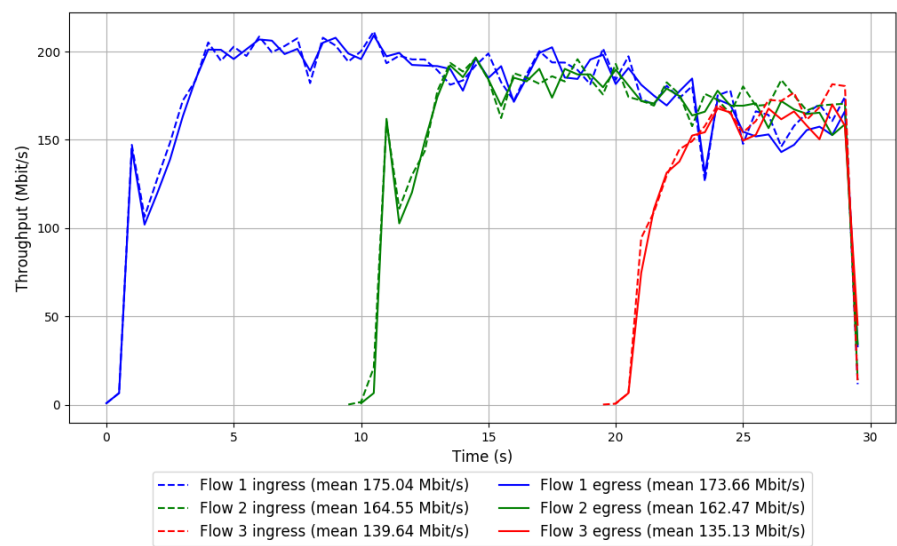


Run 4: Statistics of Indigo

Start at: 2017-11-30 22:23:14
End at: 2017-11-30 22:23:44
Local clock offset: 0.006 ms
Remote clock offset: -1.527 ms

Below is generated by plot.py at 2017-12-01 02:10:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.24 Mbit/s
95th percentile per-packet one-way delay: 82.481 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 173.66 Mbit/s
95th percentile per-packet one-way delay: 82.575 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 162.47 Mbit/s
95th percentile per-packet one-way delay: 82.345 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 135.13 Mbit/s
95th percentile per-packet one-way delay: 82.337 ms
Loss rate: 3.23%

Run 4: Report of Indigo — Data Link

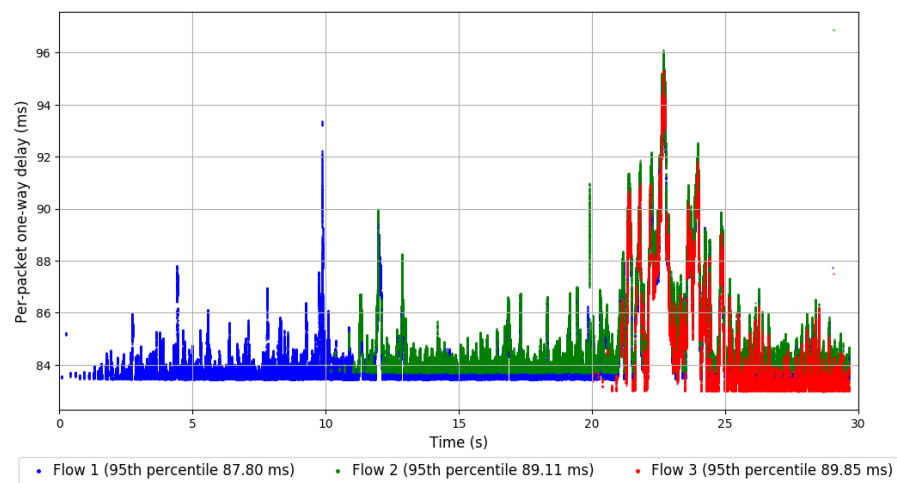
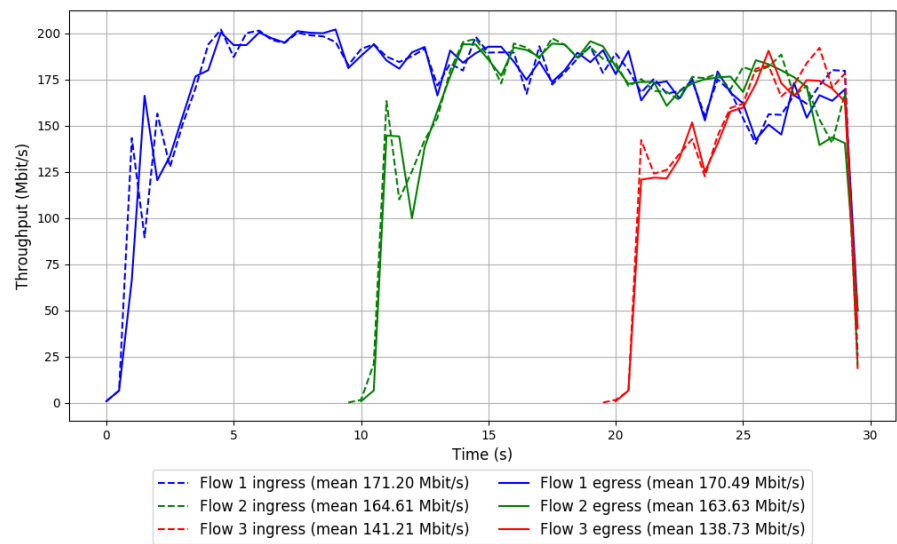


Run 5: Statistics of Indigo

Start at: 2017-11-30 22:43:22
End at: 2017-11-30 22:43:52
Local clock offset: -0.059 ms
Remote clock offset: -2.268 ms

Below is generated by plot.py at 2017-12-01 02:10:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.24 Mbit/s
95th percentile per-packet one-way delay: 88.695 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 170.49 Mbit/s
95th percentile per-packet one-way delay: 87.796 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 163.63 Mbit/s
95th percentile per-packet one-way delay: 89.115 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 138.73 Mbit/s
95th percentile per-packet one-way delay: 89.847 ms
Loss rate: 1.75%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 23:03:34

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

Local clock offset: -0.21 ms

Remote clock offset: 2.549 ms

Below is generated by plot.py at 2017-12-01 02:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.34 Mbit/s

95th percentile per-packet one-way delay: 88.131 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 177.79 Mbit/s

95th percentile per-packet one-way delay: 85.841 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 165.09 Mbit/s

95th percentile per-packet one-way delay: 86.111 ms

Loss rate: 1.36%

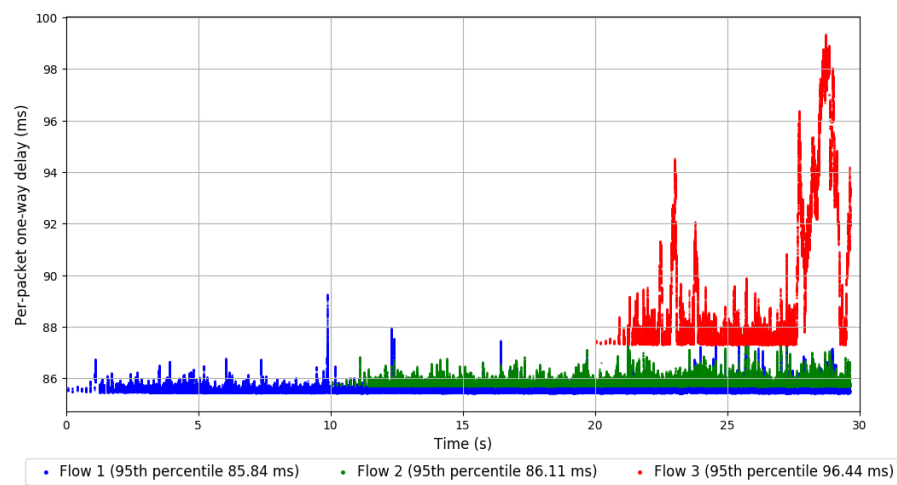
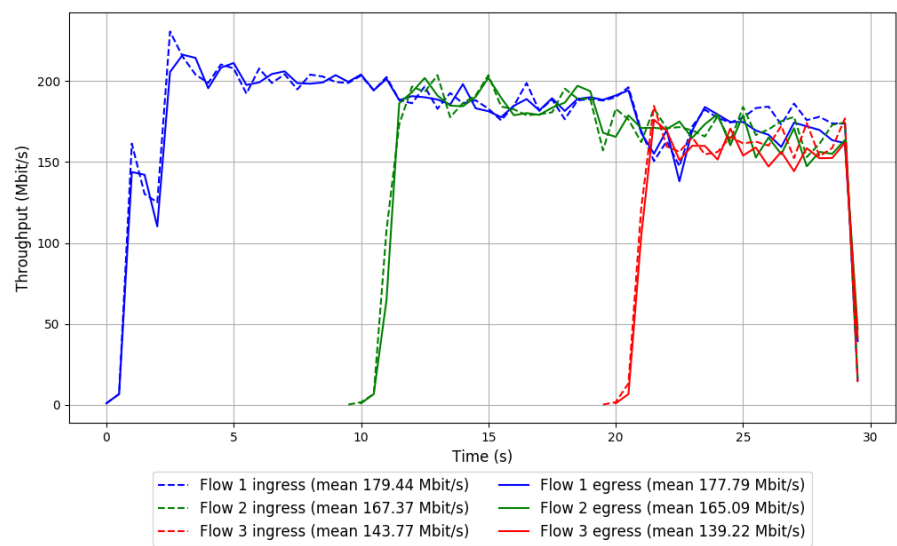
-- Flow 3:

Average throughput: 139.22 Mbit/s

95th percentile per-packet one-way delay: 96.445 ms

Loss rate: 3.12%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 23:23:46

End at: 2017-11-30 23:24:16

Local clock offset: -0.196 ms

Remote clock offset: -1.37 ms

Below is generated by plot.py at 2017-12-01 02:10:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.40 Mbit/s

95th percentile per-packet one-way delay: 82.770 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 175.98 Mbit/s

95th percentile per-packet one-way delay: 81.639 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 160.55 Mbit/s

95th percentile per-packet one-way delay: 83.536 ms

Loss rate: 1.01%

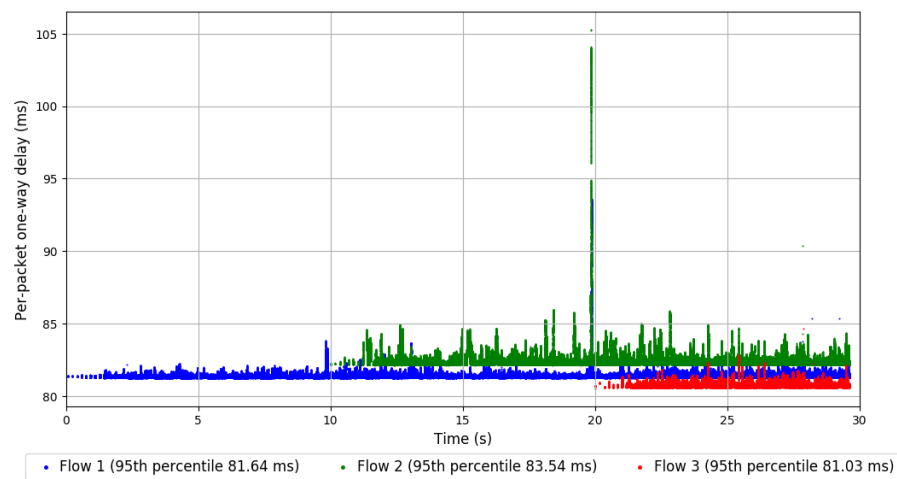
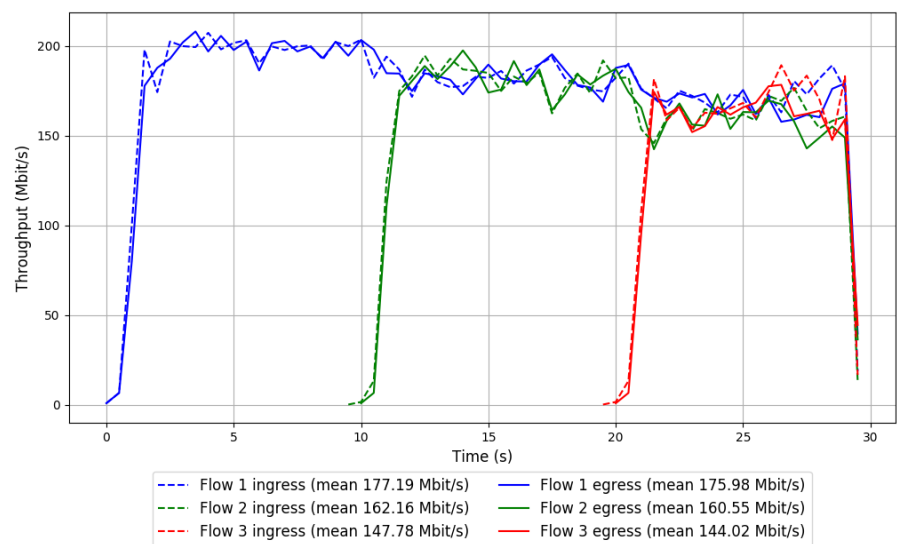
-- Flow 3:

Average throughput: 144.02 Mbit/s

95th percentile per-packet one-way delay: 81.026 ms

Loss rate: 2.54%

Run 7: Report of Indigo — Data Link

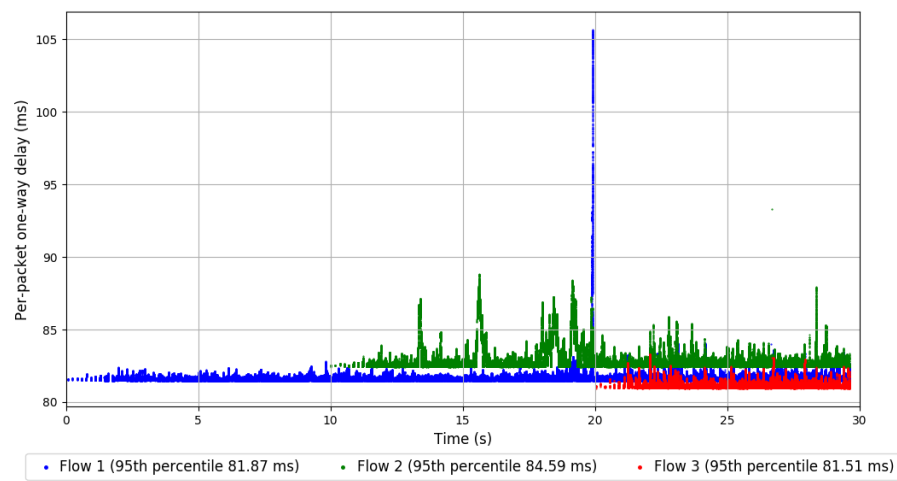
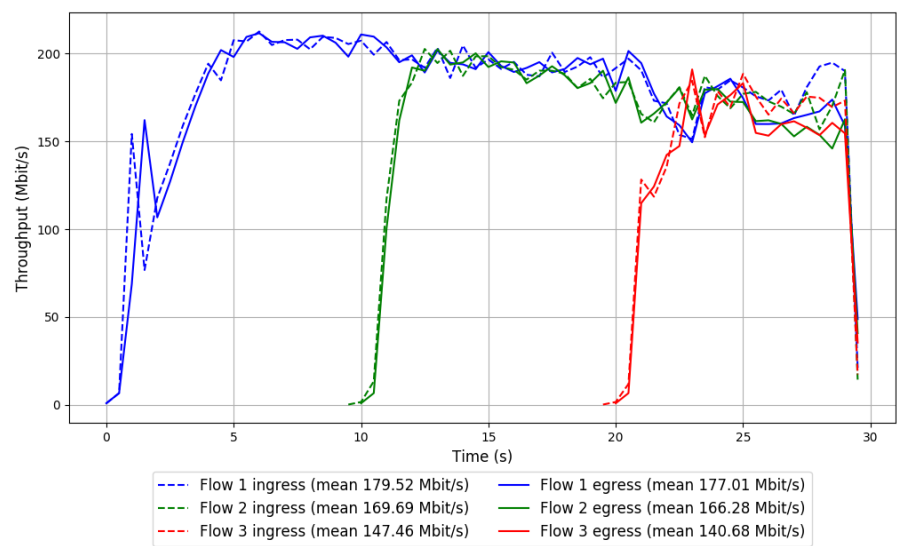


Run 8: Statistics of Indigo

Start at: 2017-11-30 23:43:47
End at: 2017-11-30 23:44:17
Local clock offset: -0.221 ms
Remote clock offset: -1.071 ms

Below is generated by plot.py at 2017-12-01 02:11:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.13 Mbit/s
95th percentile per-packet one-way delay: 83.224 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 177.01 Mbit/s
95th percentile per-packet one-way delay: 81.871 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 166.28 Mbit/s
95th percentile per-packet one-way delay: 84.588 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 140.68 Mbit/s
95th percentile per-packet one-way delay: 81.509 ms
Loss rate: 4.59%

Run 8: Report of Indigo — Data Link

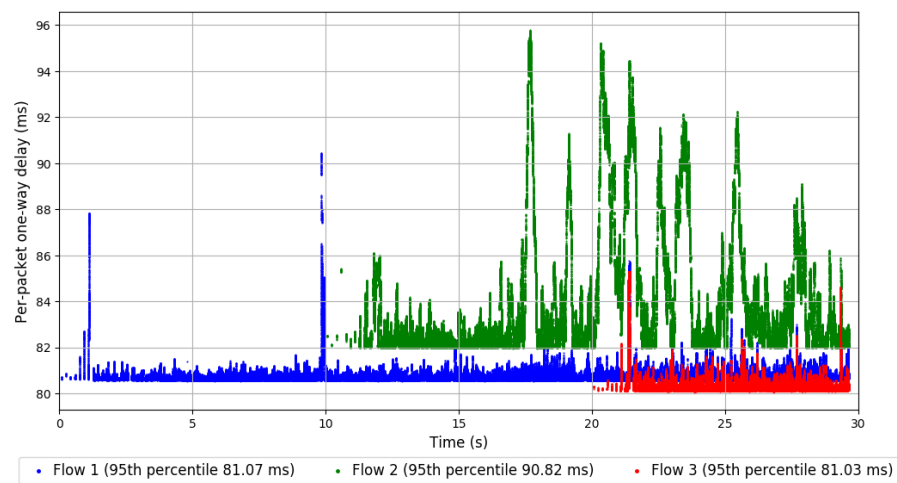
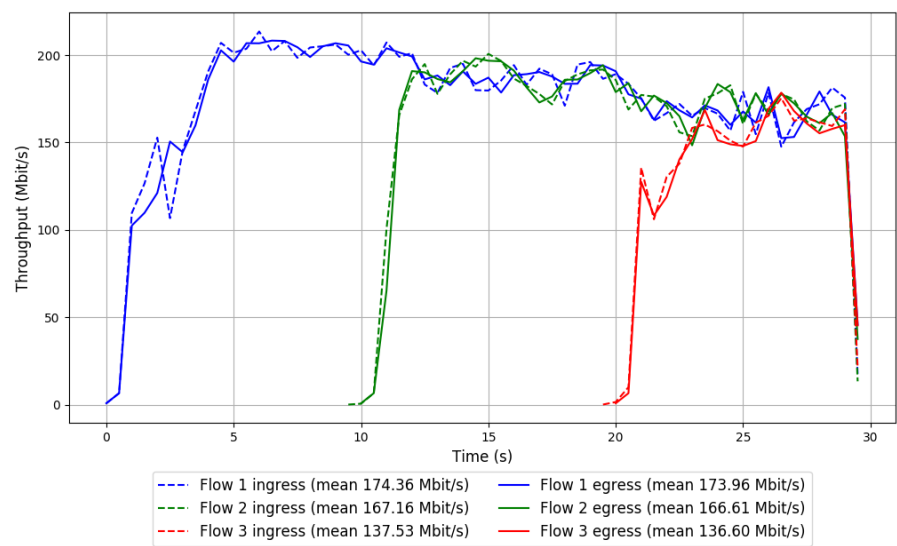


Run 9: Statistics of Indigo

Start at: 2017-12-01 00:03:54
End at: 2017-12-01 00:04:24
Local clock offset: -0.27 ms
Remote clock offset: -1.613 ms

Below is generated by plot.py at 2017-12-01 02:12:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.54 Mbit/s
95th percentile per-packet one-way delay: 86.551 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 173.96 Mbit/s
95th percentile per-packet one-way delay: 81.070 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 166.61 Mbit/s
95th percentile per-packet one-way delay: 90.823 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 136.60 Mbit/s
95th percentile per-packet one-way delay: 81.029 ms
Loss rate: 0.68%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-01 00:24:02

End at: 2017-12-01 00:24:32

Local clock offset: -0.176 ms

Remote clock offset: 4.208 ms

Below is generated by plot.py at 2017-12-01 02:13:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.53 Mbit/s

95th percentile per-packet one-way delay: 105.142 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 137.28 Mbit/s

95th percentile per-packet one-way delay: 109.810 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 170.81 Mbit/s

95th percentile per-packet one-way delay: 86.405 ms

Loss rate: 0.09%

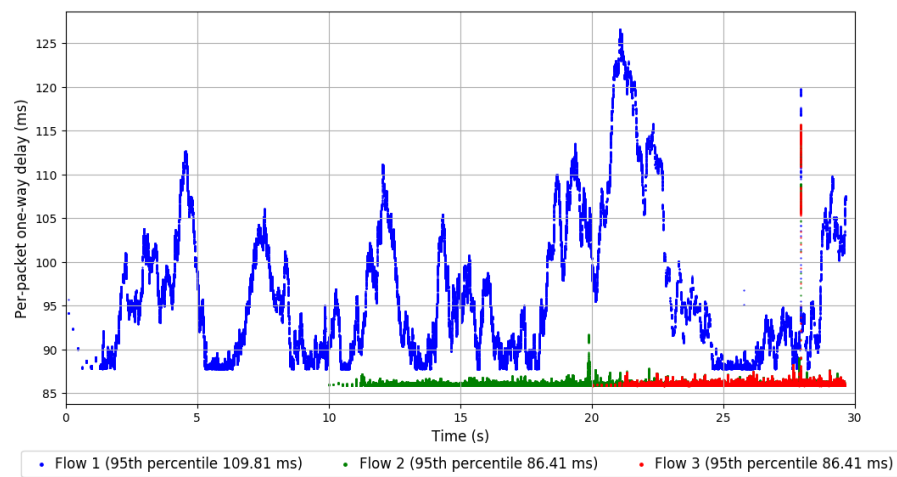
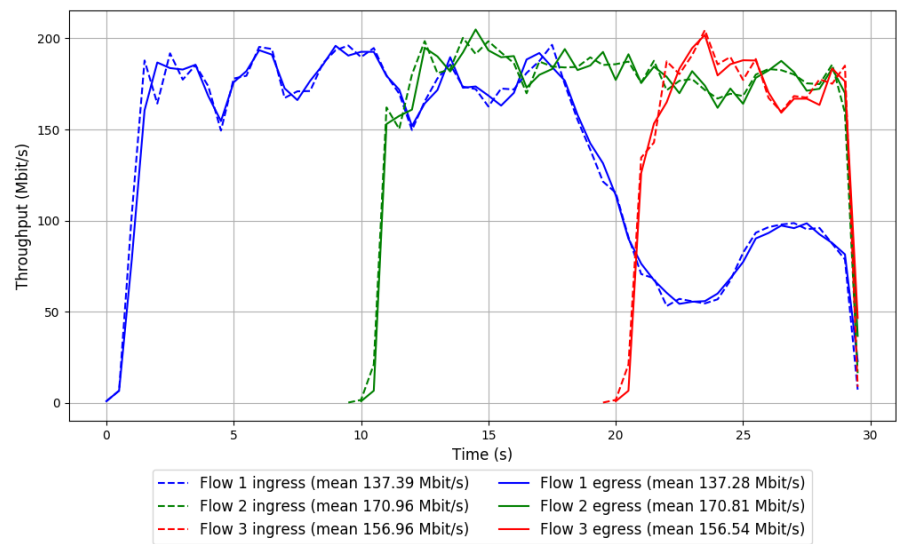
-- Flow 3:

Average throughput: 156.54 Mbit/s

95th percentile per-packet one-way delay: 86.409 ms

Loss rate: 0.27%

Run 10: Report of Indigo — Data Link

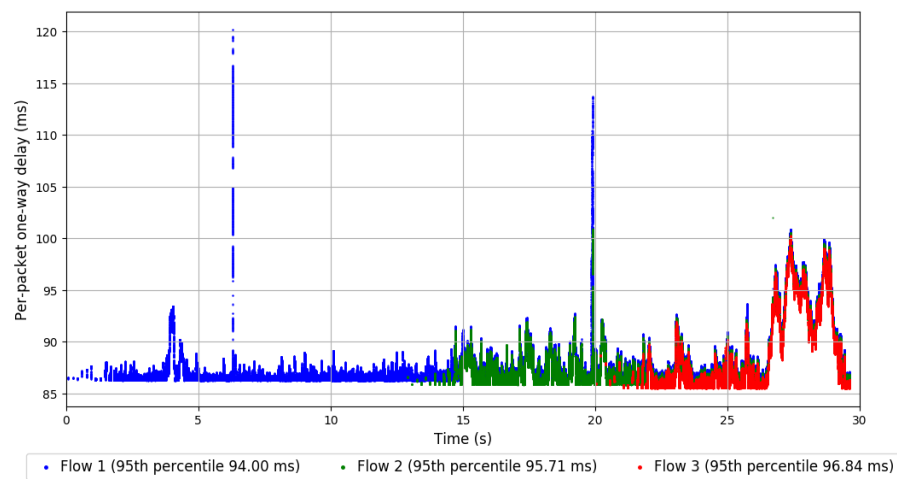
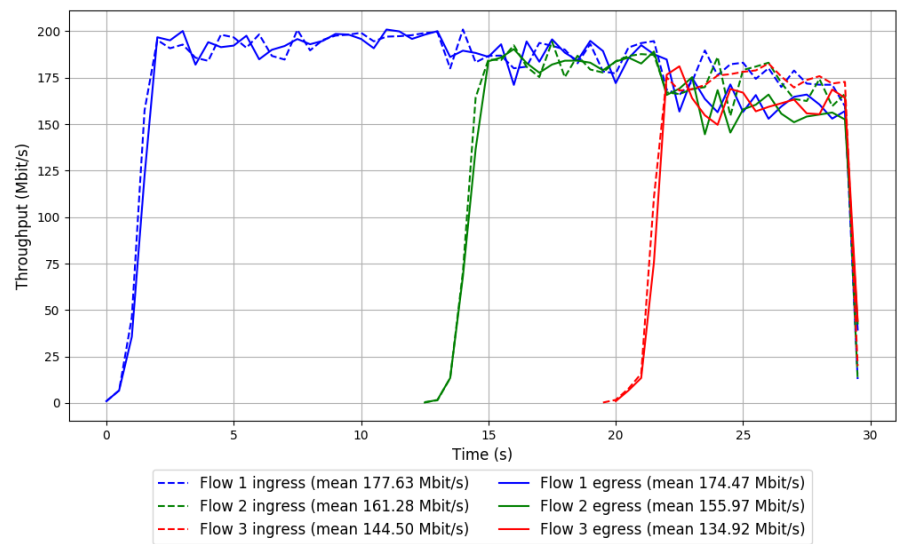


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 21:20:15
End at: 2017-11-30 21:20:45
Local clock offset: 0.392 ms
Remote clock offset: 1.692 ms

# Below is generated by plot.py at 2017-12-01 02:13:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.51 Mbit/s
95th percentile per-packet one-way delay: 95.471 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 174.47 Mbit/s
95th percentile per-packet one-way delay: 94.000 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 155.97 Mbit/s
95th percentile per-packet one-way delay: 95.714 ms
Loss rate: 3.33%
-- Flow 3:
Average throughput: 134.92 Mbit/s
95th percentile per-packet one-way delay: 96.843 ms
Loss rate: 6.64%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

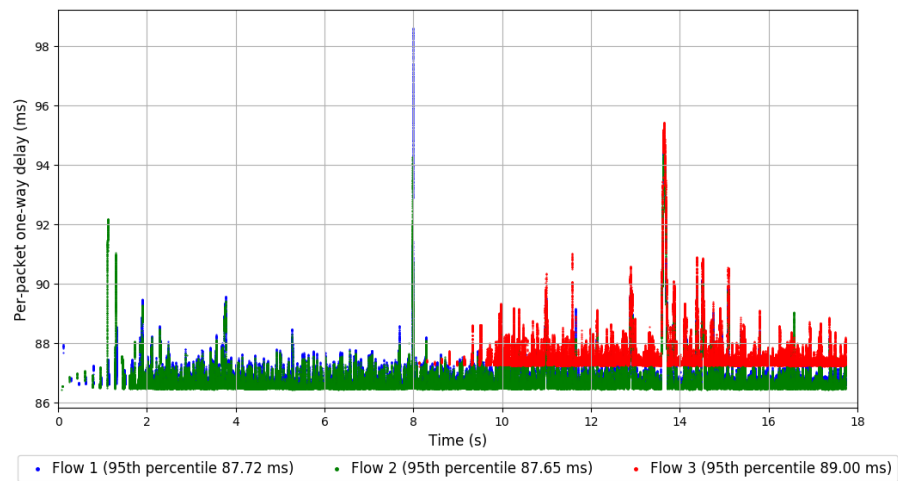
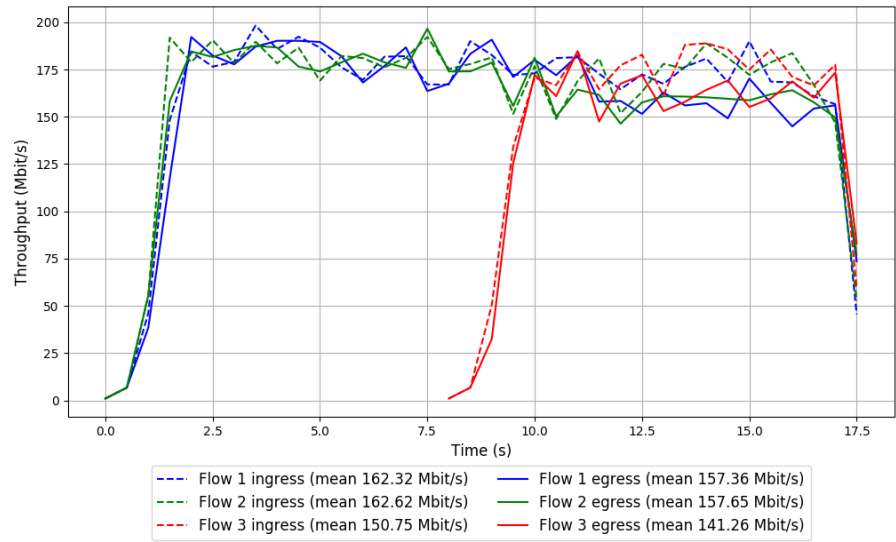
Start at: 2017-11-30 21:40:12

End at: 2017-11-30 21:40:42

Local clock offset: 0.265 ms

Remote clock offset: 3.508 ms

Run 2: Report of Indigo-calib — Data Link

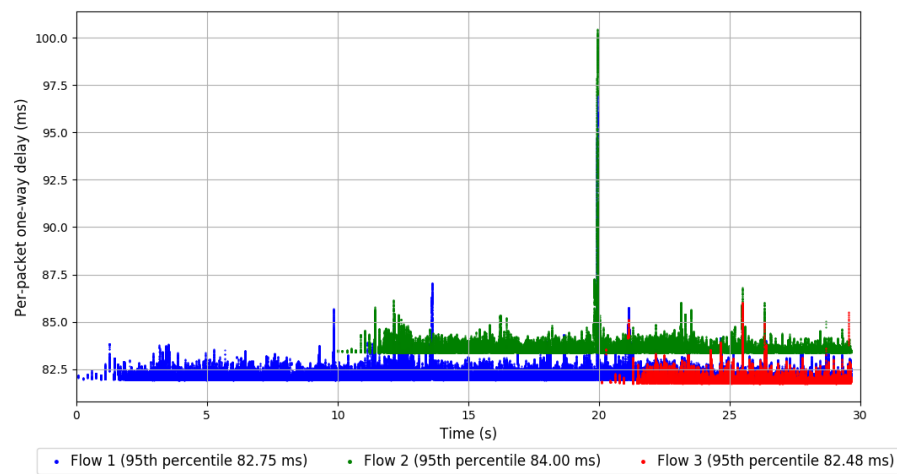
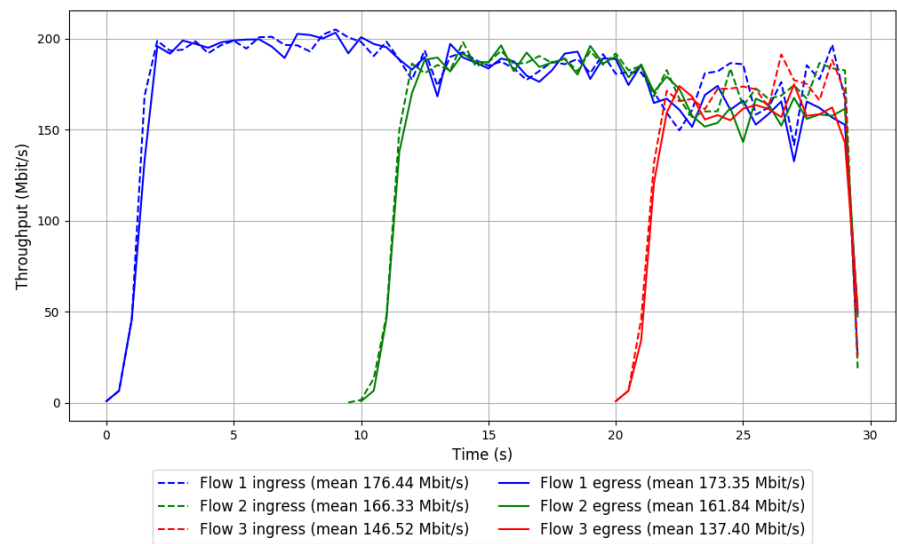


Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 22:00:05
End at: 2017-11-30 22:00:35
Local clock offset: 0.067 ms
Remote clock offset: -0.565 ms

Below is generated by plot.py at 2017-12-01 02:14:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.20 Mbit/s
95th percentile per-packet one-way delay: 83.674 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 173.35 Mbit/s
95th percentile per-packet one-way delay: 82.752 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 161.84 Mbit/s
95th percentile per-packet one-way delay: 83.998 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 137.40 Mbit/s
95th percentile per-packet one-way delay: 82.484 ms
Loss rate: 6.22%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 22:20:17

End at: 2017-11-30 22:20:47

Local clock offset: 0.025 ms

Remote clock offset: 2.178 ms

Below is generated by plot.py at 2017-12-01 02:15:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.18 Mbit/s

95th percentile per-packet one-way delay: 87.299 ms

Loss rate: 2.54%

-- Flow 1:

Average throughput: 173.84 Mbit/s

95th percentile per-packet one-way delay: 87.446 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 163.63 Mbit/s

95th percentile per-packet one-way delay: 86.343 ms

Loss rate: 2.64%

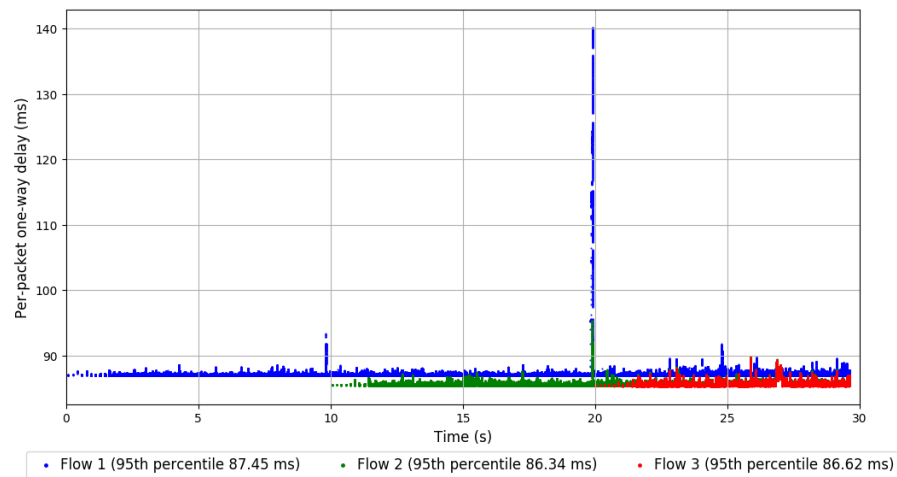
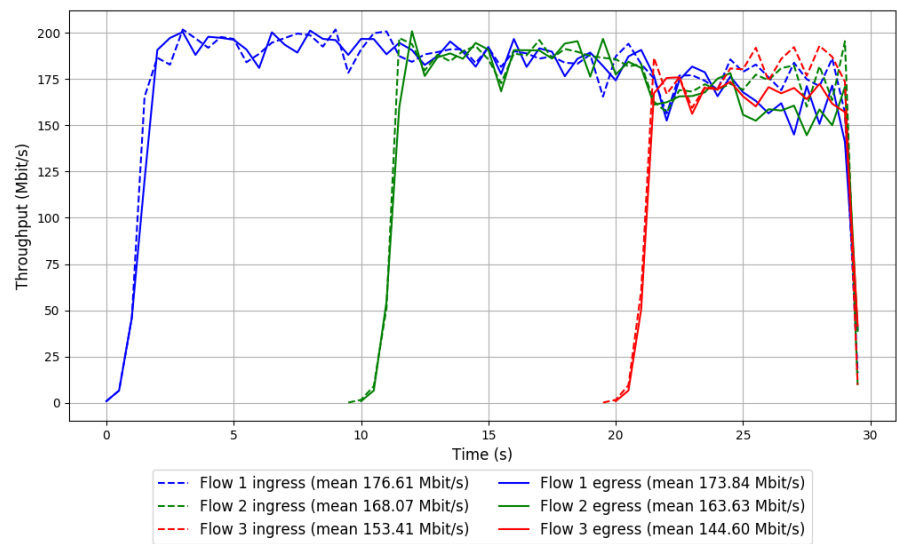
-- Flow 3:

Average throughput: 144.60 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 5.74%

Run 4: Report of Indigo-calib — Data Link

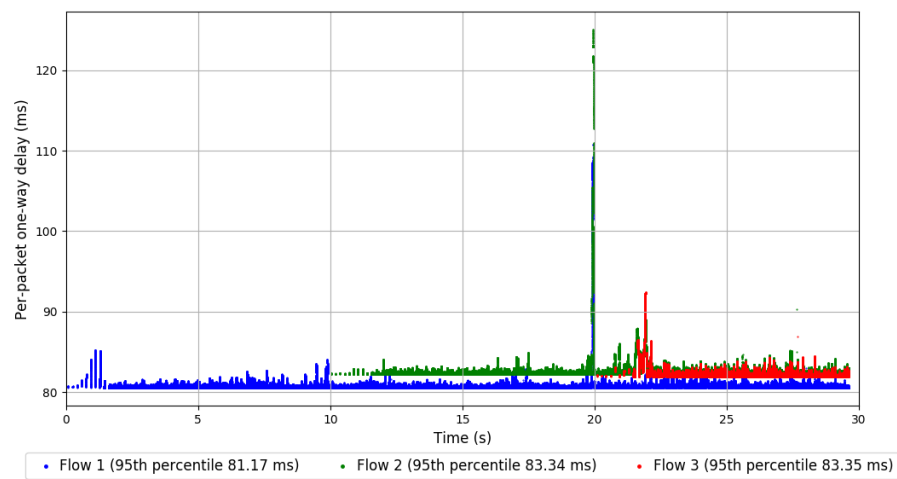
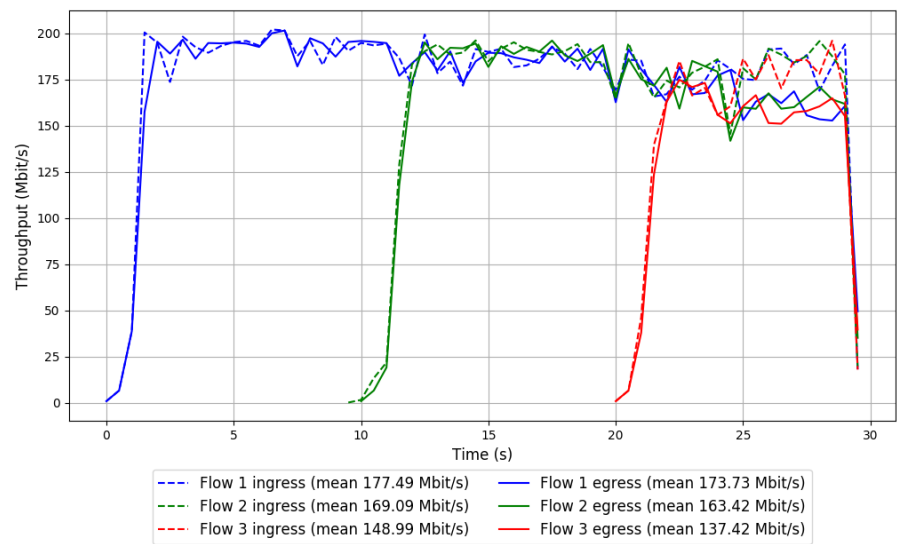


Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 22:40:24
End at: 2017-11-30 22:40:54
Local clock offset: -0.074 ms
Remote clock offset: -3.027 ms

Below is generated by plot.py at 2017-12-01 02:15:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 326.48 Mbit/s
95th percentile per-packet one-way delay: 82.799 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 173.73 Mbit/s
95th percentile per-packet one-way delay: 81.173 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 163.42 Mbit/s
95th percentile per-packet one-way delay: 83.345 ms
Loss rate: 3.35%
-- Flow 3:
Average throughput: 137.42 Mbit/s
95th percentile per-packet one-way delay: 83.346 ms
Loss rate: 7.77%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

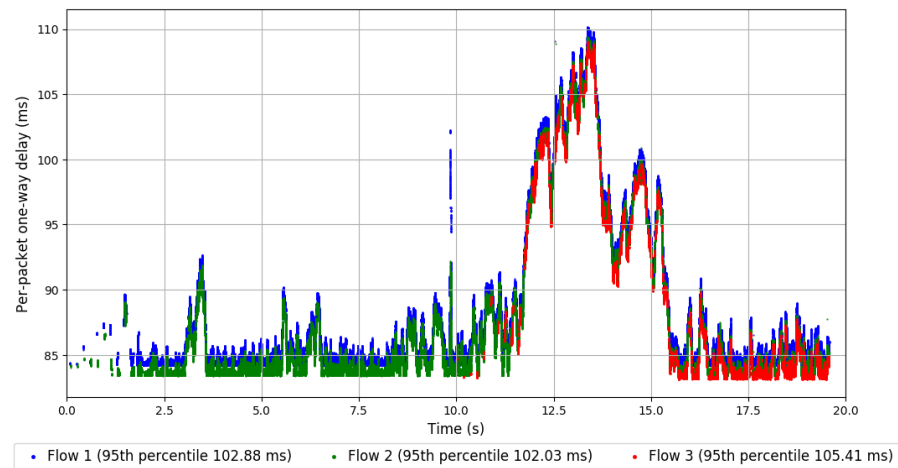
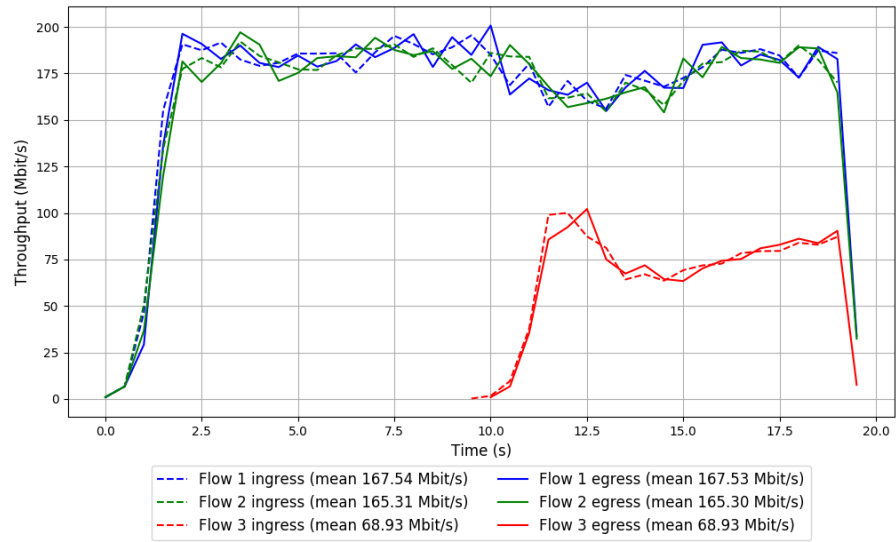
Start at: 2017-11-30 23:00:43

End at: 2017-11-30 23:01:13

Local clock offset: -0.23 ms

Remote clock offset: -1.303 ms

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

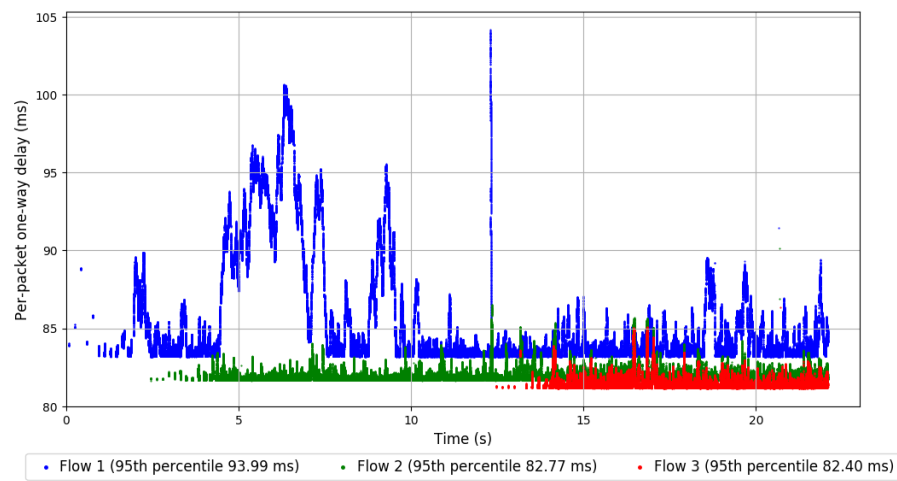
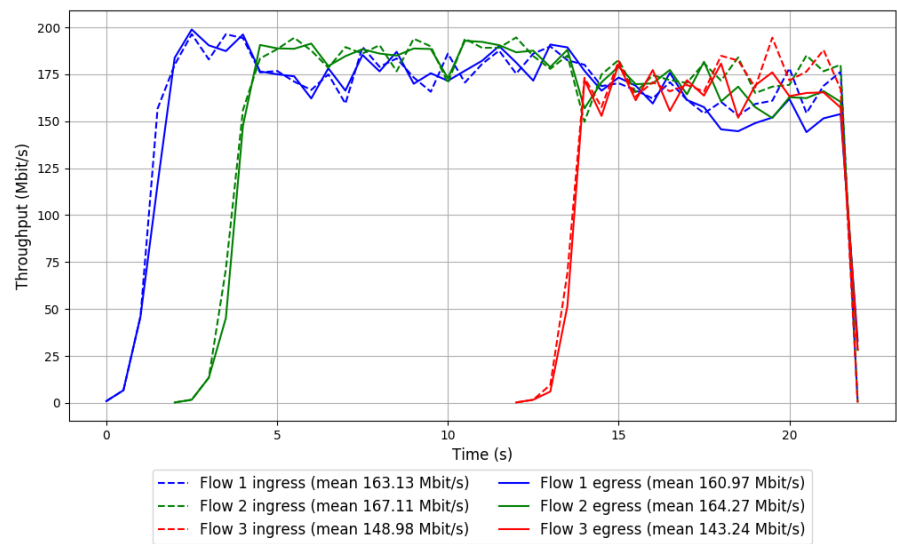
Start at: 2017-11-30 23:20:52

End at: 2017-11-30 23:21:22

Local clock offset: -0.177 ms

Remote clock offset: -0.44 ms

Run 7: Report of Indigo-calib — Data Link

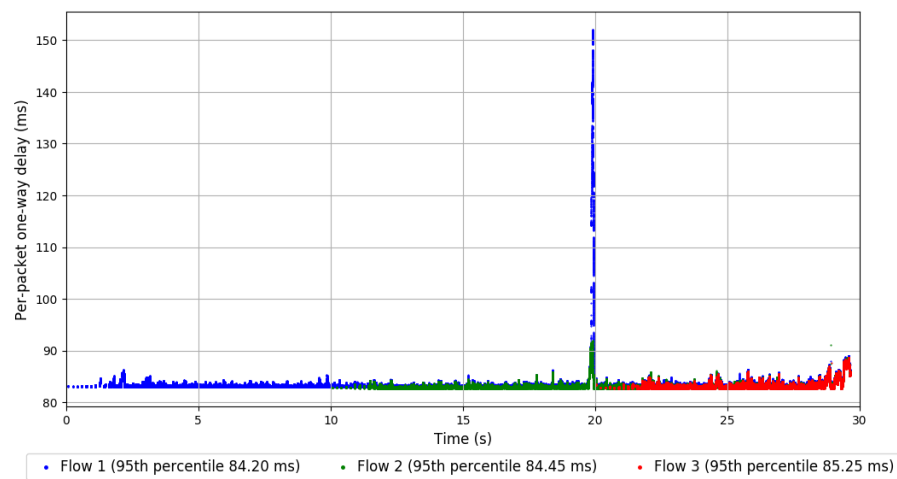
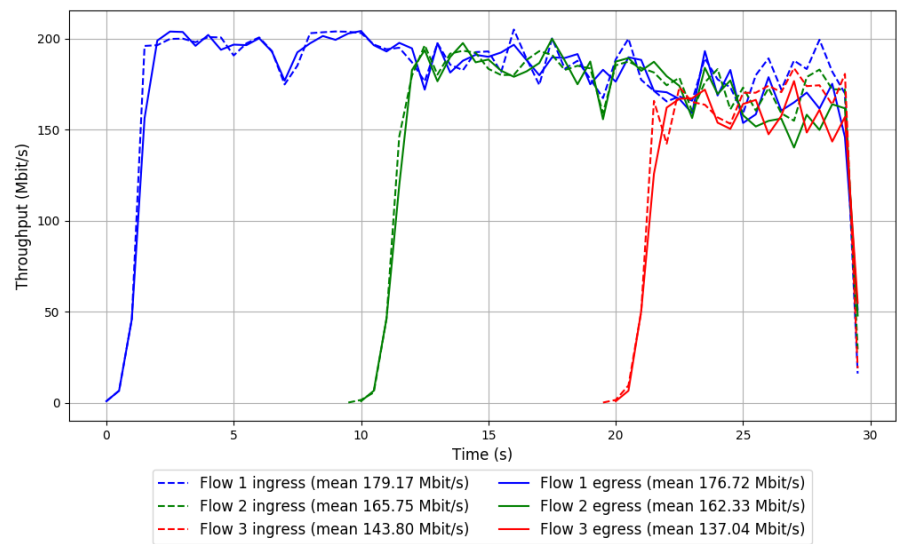


Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 23:40:50
End at: 2017-11-30 23:41:20
Local clock offset: -0.206 ms
Remote clock offset: -1.102 ms

Below is generated by plot.py at 2017-12-01 02:16:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.80 Mbit/s
95th percentile per-packet one-way delay: 84.455 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 176.72 Mbit/s
95th percentile per-packet one-way delay: 84.200 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 162.33 Mbit/s
95th percentile per-packet one-way delay: 84.454 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 137.04 Mbit/s
95th percentile per-packet one-way delay: 85.252 ms
Loss rate: 4.68%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-01 00:00:57

End at: 2017-12-01 00:01:27

Local clock offset: -0.241 ms

Remote clock offset: 4.012 ms

Below is generated by plot.py at 2017-12-01 02:16:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.96 Mbit/s

95th percentile per-packet one-way delay: 97.666 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 175.93 Mbit/s

95th percentile per-packet one-way delay: 86.519 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 162.86 Mbit/s

95th percentile per-packet one-way delay: 99.508 ms

Loss rate: 0.42%

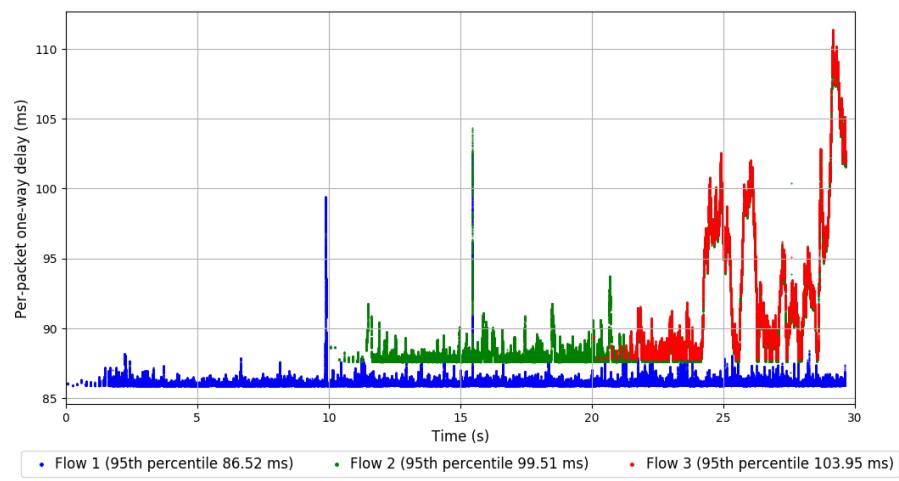
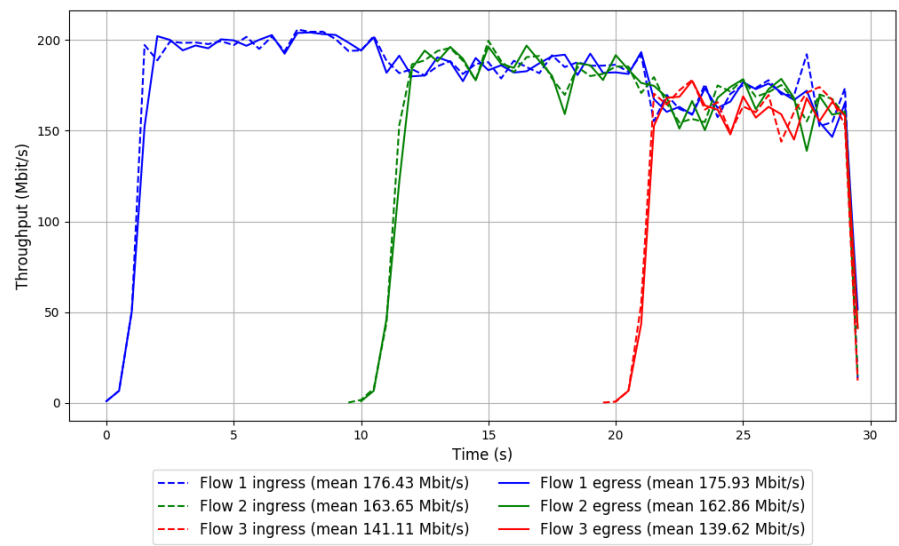
-- Flow 3:

Average throughput: 139.62 Mbit/s

95th percentile per-packet one-way delay: 103.949 ms

Loss rate: 0.92%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-01 00:21:04

End at: 2017-12-01 00:21:34

Local clock offset: -0.186 ms

Remote clock offset: 3.338 ms

Below is generated by plot.py at 2017-12-01 02:16:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.59 Mbit/s

95th percentile per-packet one-way delay: 87.648 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 174.47 Mbit/s

95th percentile per-packet one-way delay: 85.826 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 163.36 Mbit/s

95th percentile per-packet one-way delay: 85.633 ms

Loss rate: 1.17%

-- Flow 3:

Average throughput: 141.38 Mbit/s

95th percentile per-packet one-way delay: 90.406 ms

Loss rate: 2.85%

Run 10: Report of Indigo-calib — Data Link

