

Pantheon Report

Generated at 2017-12-12 03:36:41 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

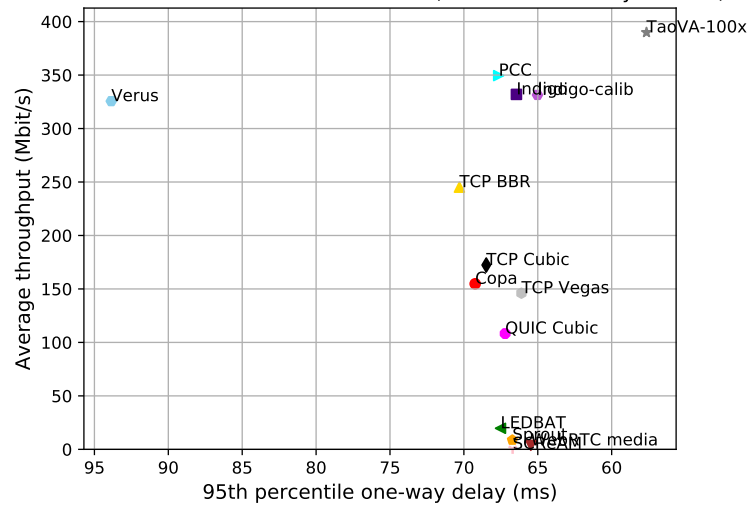
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

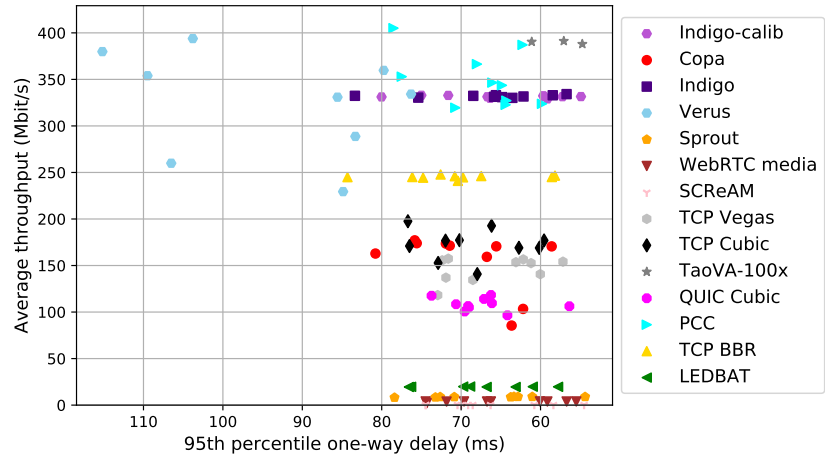
Git summary:

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

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



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



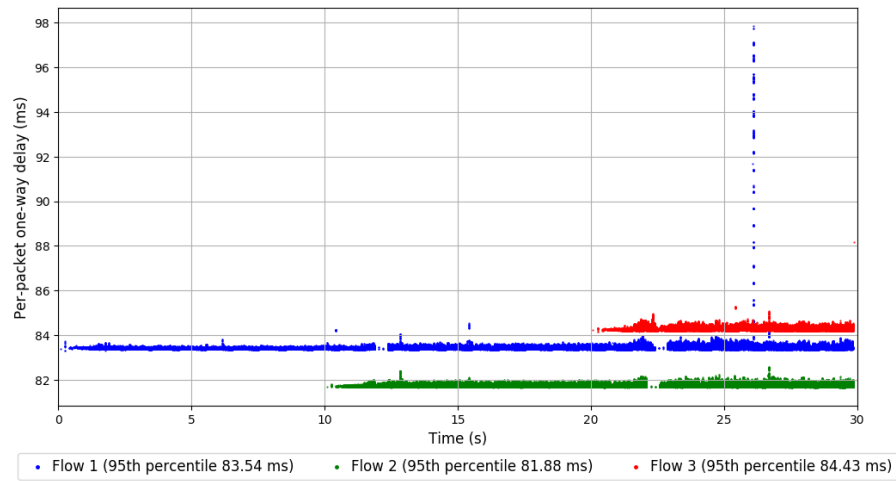
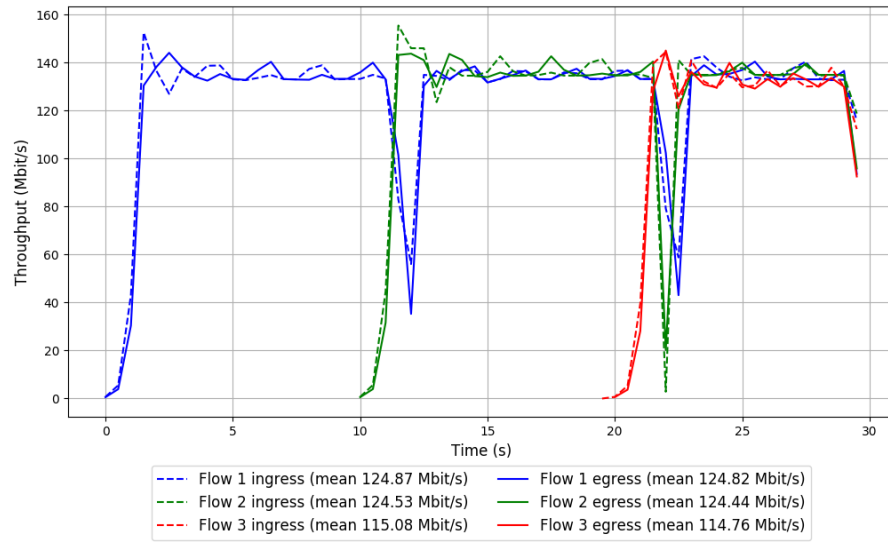
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	125.29	123.06	116.72	69.56	69.19	69.92	0.59	0.86	1.93
TCP Cubic	10	92.44	83.19	71.05	67.94	67.78	68.00	0.61	1.07	1.85
LEDBAT	8	12.85	8.35	4.06	66.29	66.96	66.16	1.12	1.71	3.42
PCC	10	237.84	92.20	154.67	67.86	66.08	67.13	11.53	16.80	18.17
QUIC Cubic	10	59.06	54.02	27.71	66.08	66.09	66.12	0.76	1.05	3.40
SCReAM	10	0.22	0.22	0.22	66.14	65.71	65.52	0.51	1.03	1.56
WebRTC media	10	1.94	1.32	0.49	64.69	65.04	64.65	0.70	0.61	2.61
Sprout	9	4.63	4.36	3.80	65.92	65.86	65.47	0.65	1.01	2.48
TaoVA-100x	3	228.65	201.99	113.85	57.32	56.19	57.32	2.13	3.87	7.75
TCP Vegas	10	74.32	74.54	68.08	65.10	65.23	66.13	0.58	0.93	1.88
Verus	9	191.79	151.34	102.91	94.10	92.68	88.35	4.08	6.26	8.74
Copa	10	77.71	84.04	81.67	212.00	68.50	68.23	0.56	1.06	2.50
Indigo	10	177.45	166.00	138.17	65.62	66.10	65.42	3.58	6.02	12.02
Indigo-calib	10	177.80	165.37	136.71	64.24	64.48	64.36	4.23	7.16	15.45

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 19:56:47
End at: 2017-12-11 19:57:17
Local clock offset: -0.033 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2017-12-12 02:47:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.98 Mbit/s
95th percentile per-packet one-way delay: 84.310 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 124.82 Mbit/s
95th percentile per-packet one-way delay: 83.541 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 124.44 Mbit/s
95th percentile per-packet one-way delay: 81.881 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 114.76 Mbit/s
95th percentile per-packet one-way delay: 84.433 ms
Loss rate: 1.91%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 20:16:52

End at: 2017-12-11 20:17:22

Local clock offset: -0.01 ms

Remote clock offset: 13.28 ms

Below is generated by plot.py at 2017-12-12 02:47:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.75 Mbit/s

95th percentile per-packet one-way delay: 69.763 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 124.40 Mbit/s

95th percentile per-packet one-way delay: 69.800 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 123.13 Mbit/s

95th percentile per-packet one-way delay: 66.903 ms

Loss rate: 0.90%

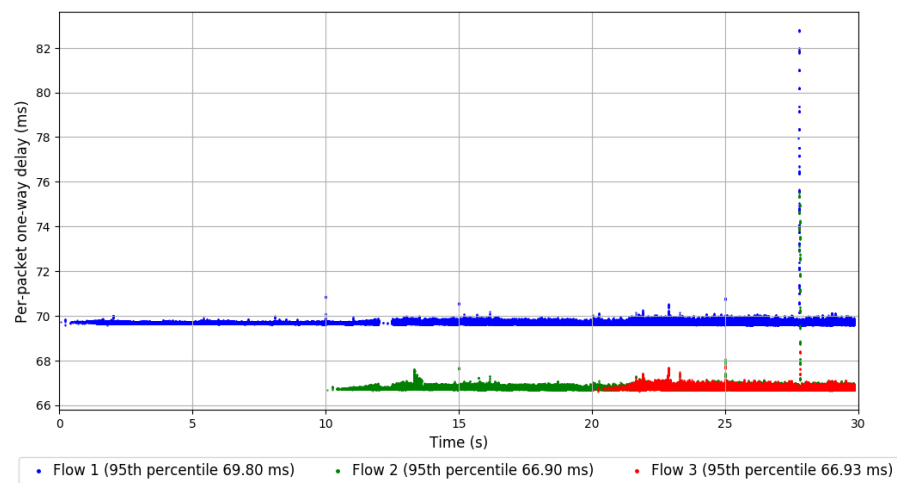
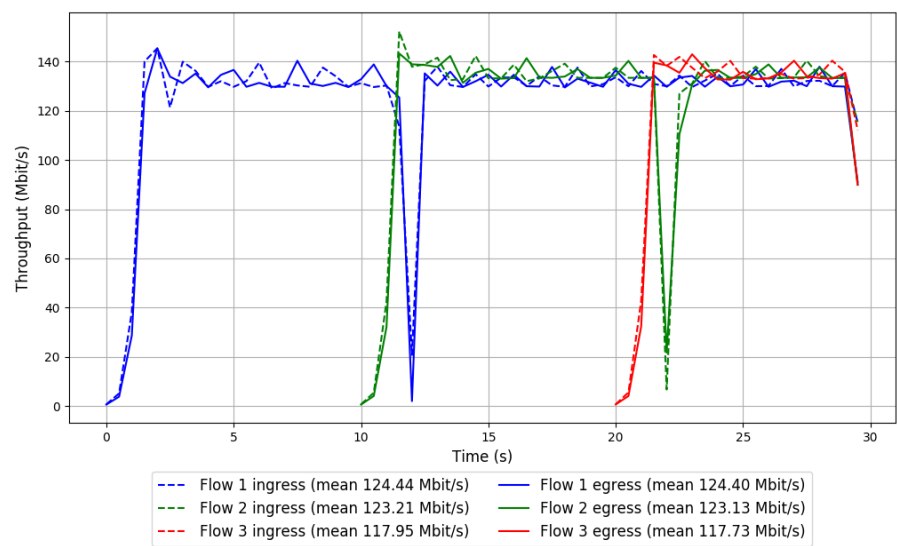
-- Flow 3:

Average throughput: 117.73 Mbit/s

95th percentile per-packet one-way delay: 66.934 ms

Loss rate: 1.85%

Run 2: Report of TCP BBR — Data Link

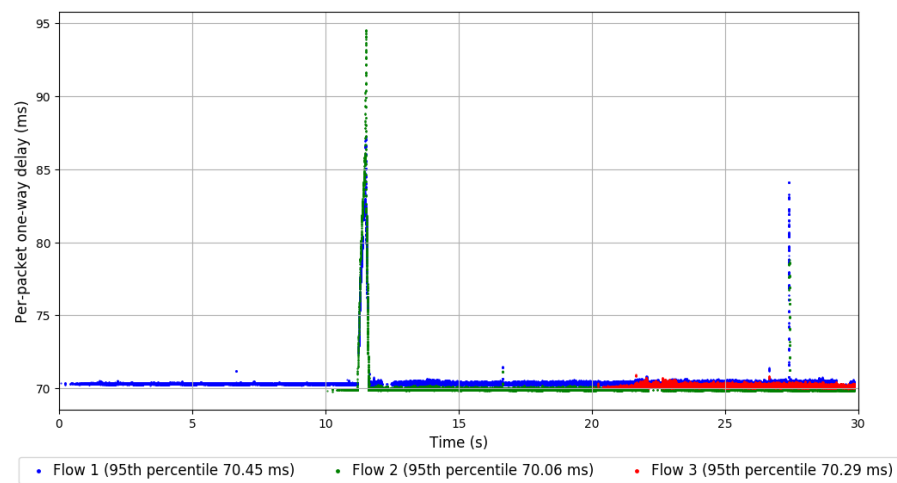
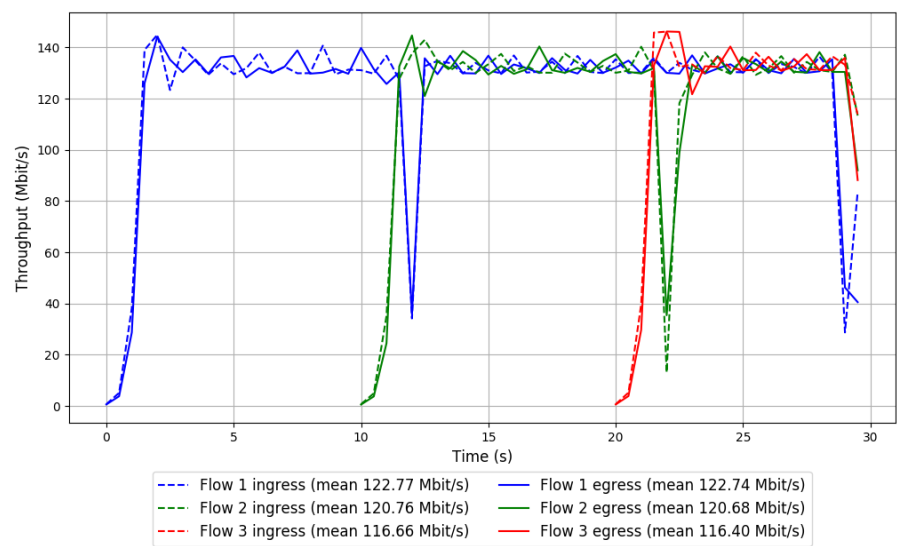


Run 3: Statistics of TCP BBR

Start at: 2017-12-11 20:37:00
End at: 2017-12-11 20:37:30
Local clock offset: 0.048 ms
Remote clock offset: 11.601 ms

Below is generated by plot.py at 2017-12-12 02:47:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.00 Mbit/s
95th percentile per-packet one-way delay: 70.408 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 122.74 Mbit/s
95th percentile per-packet one-way delay: 70.448 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 120.68 Mbit/s
95th percentile per-packet one-way delay: 70.056 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 116.40 Mbit/s
95th percentile per-packet one-way delay: 70.286 ms
Loss rate: 1.91%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 20:57:39

End at: 2017-12-11 20:58:09

Local clock offset: -0.122 ms

Remote clock offset: 2.939 ms

Below is generated by plot.py at 2017-12-12 02:47:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.12 Mbit/s

95th percentile per-packet one-way delay: 76.149 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 124.62 Mbit/s

95th percentile per-packet one-way delay: 75.194 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 123.37 Mbit/s

95th percentile per-packet one-way delay: 75.220 ms

Loss rate: 0.89%

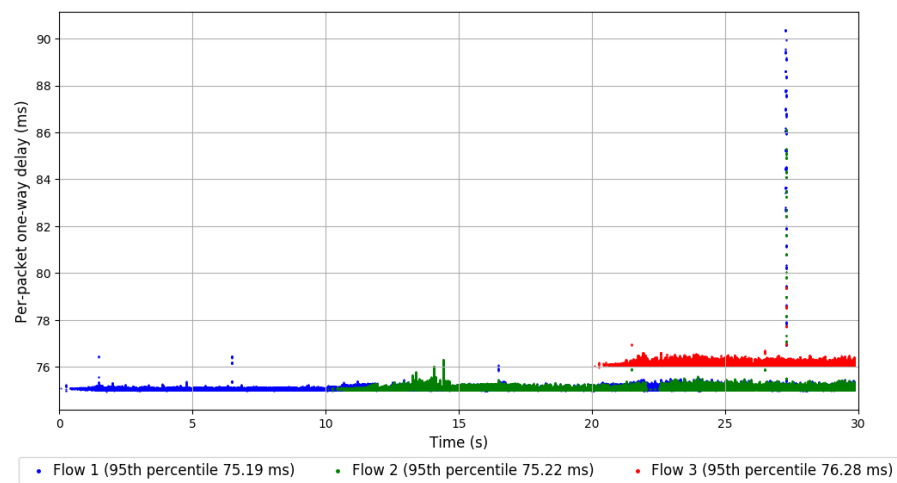
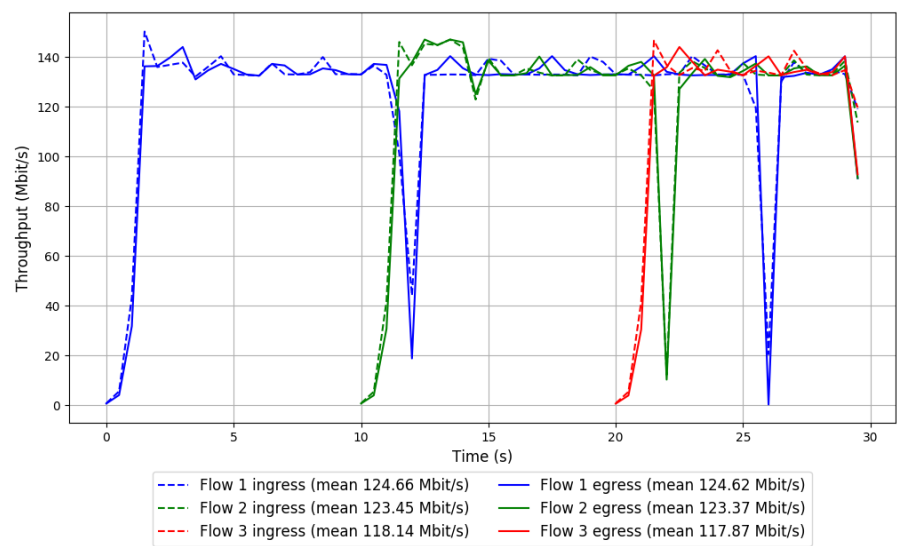
-- Flow 3:

Average throughput: 117.87 Mbit/s

95th percentile per-packet one-way delay: 76.278 ms

Loss rate: 1.90%

Run 4: Report of TCP BBR — Data Link

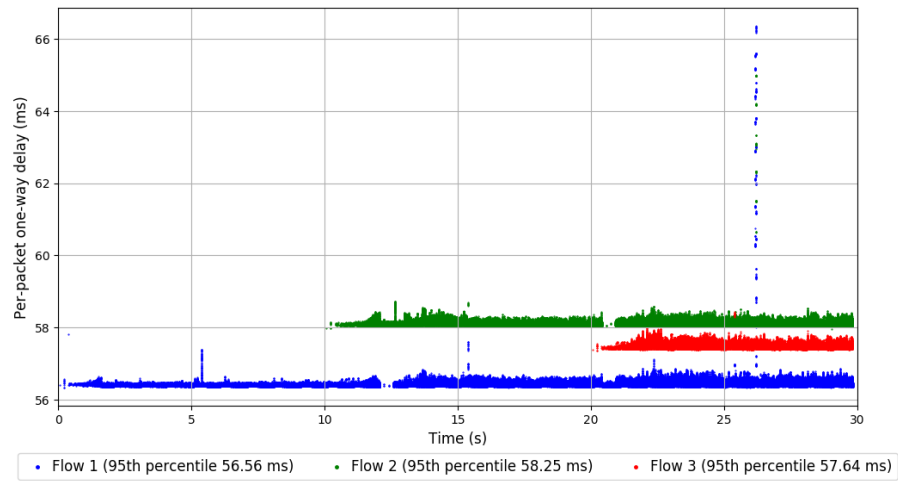
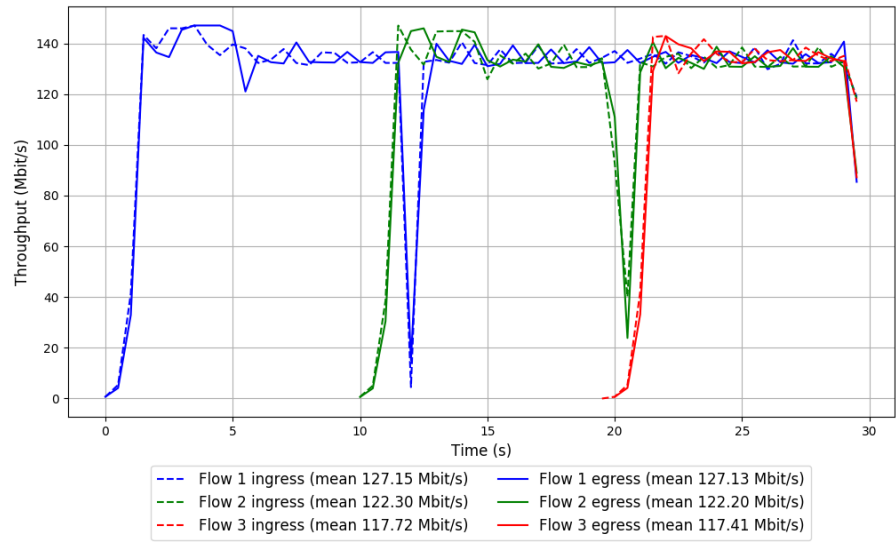


Run 5: Statistics of TCP BBR

Start at: 2017-12-11 21:17:44
End at: 2017-12-11 21:18:14
Local clock offset: -0.083 ms
Remote clock offset: 21.787 ms

Below is generated by plot.py at 2017-12-12 02:47:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.64 Mbit/s
95th percentile per-packet one-way delay: 58.182 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 127.13 Mbit/s
95th percentile per-packet one-way delay: 56.556 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 122.20 Mbit/s
95th percentile per-packet one-way delay: 58.247 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 117.41 Mbit/s
95th percentile per-packet one-way delay: 57.641 ms
Loss rate: 2.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 21:37:48

End at: 2017-12-11 21:38:18

Local clock offset: -0.084 ms

Remote clock offset: 6.063 ms

Below is generated by plot.py at 2017-12-12 02:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.41 Mbit/s

95th percentile per-packet one-way delay: 74.789 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 125.53 Mbit/s

95th percentile per-packet one-way delay: 74.682 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 121.46 Mbit/s

95th percentile per-packet one-way delay: 74.034 ms

Loss rate: 0.97%

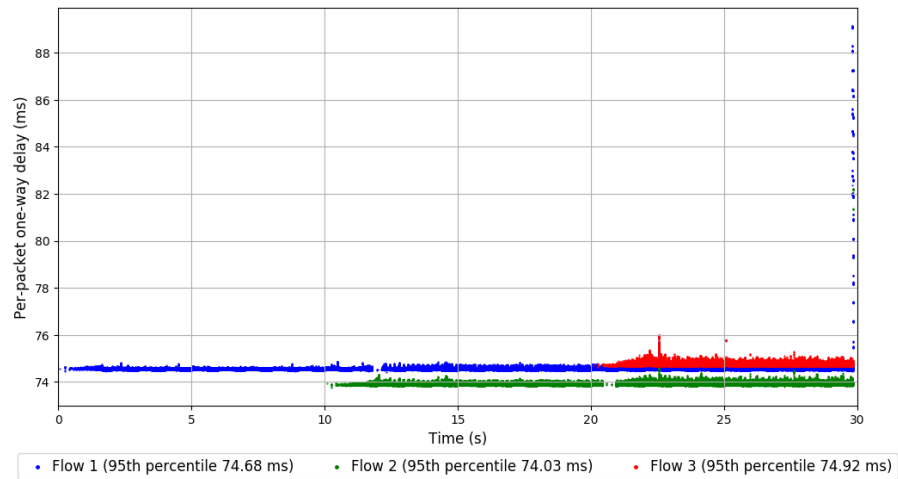
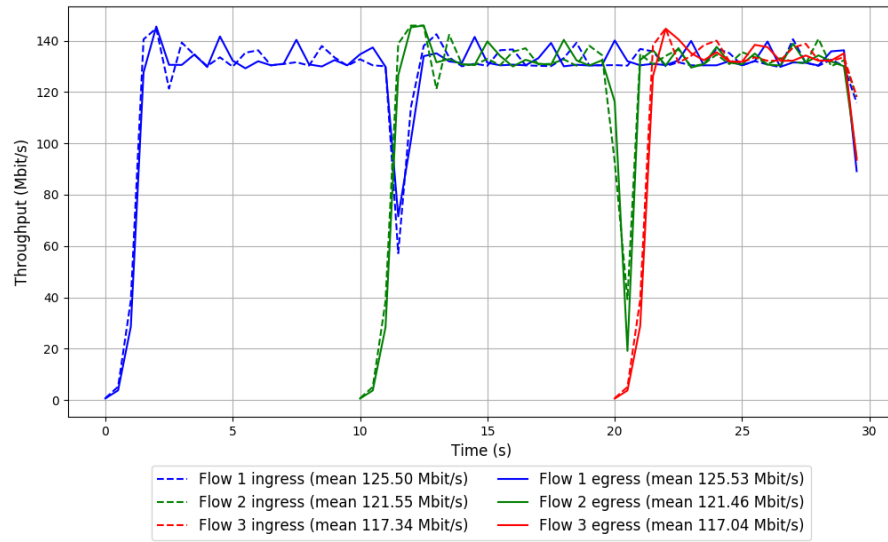
-- Flow 3:

Average throughput: 117.04 Mbit/s

95th percentile per-packet one-way delay: 74.919 ms

Loss rate: 2.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 21:58:13

End at: 2017-12-11 21:58:43

Local clock offset: -0.133 ms

Remote clock offset: 20.66 ms

Below is generated by plot.py at 2017-12-12 02:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.10 Mbit/s

95th percentile per-packet one-way delay: 58.577 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 124.32 Mbit/s

95th percentile per-packet one-way delay: 58.621 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 124.00 Mbit/s

95th percentile per-packet one-way delay: 57.789 ms

Loss rate: 0.97%

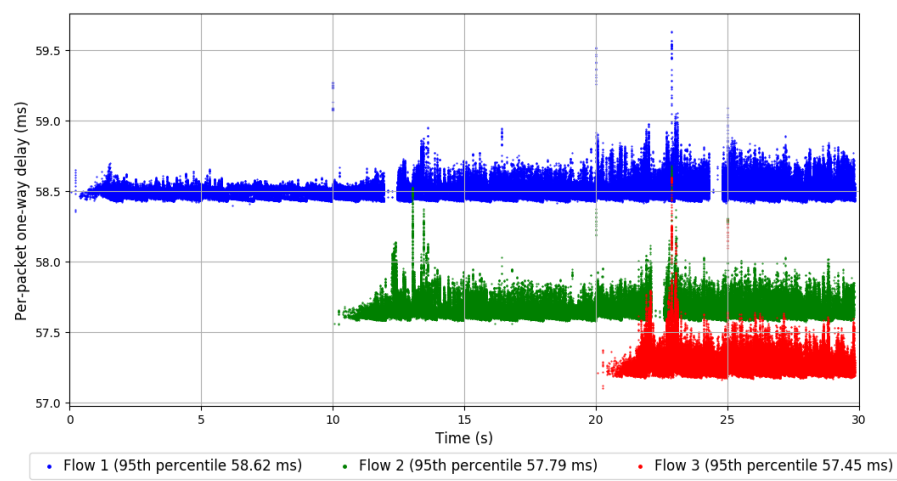
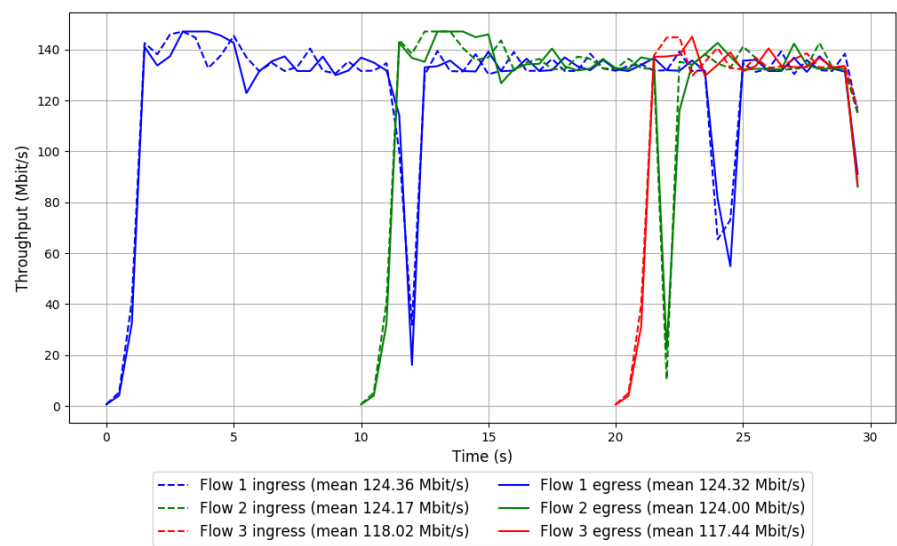
-- Flow 3:

Average throughput: 117.44 Mbit/s

95th percentile per-packet one-way delay: 57.447 ms

Loss rate: 1.97%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 22:18:14

End at: 2017-12-11 22:18:44

Local clock offset: -0.151 ms

Remote clock offset: 8.993 ms

Below is generated by plot.py at 2017-12-12 02:47:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.82 Mbit/s

95th percentile per-packet one-way delay: 72.587 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 128.59 Mbit/s

95th percentile per-packet one-way delay: 69.941 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 122.79 Mbit/s

95th percentile per-packet one-way delay: 71.642 ms

Loss rate: 0.90%

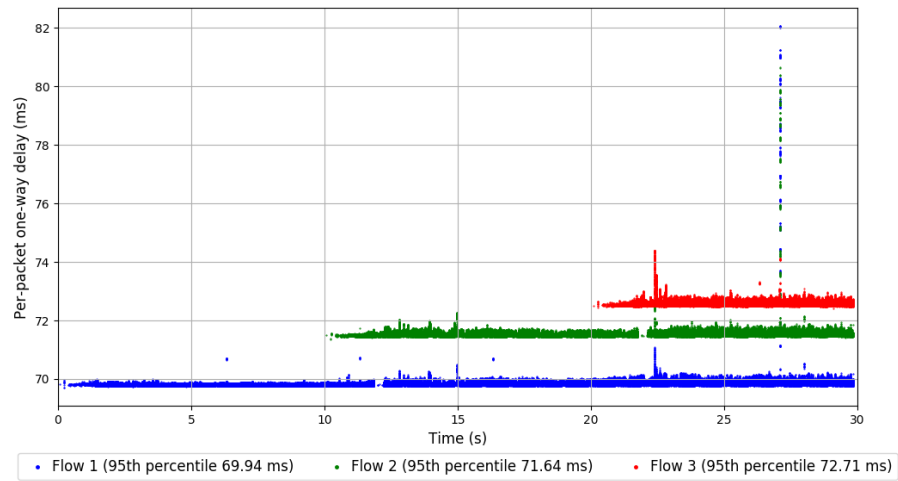
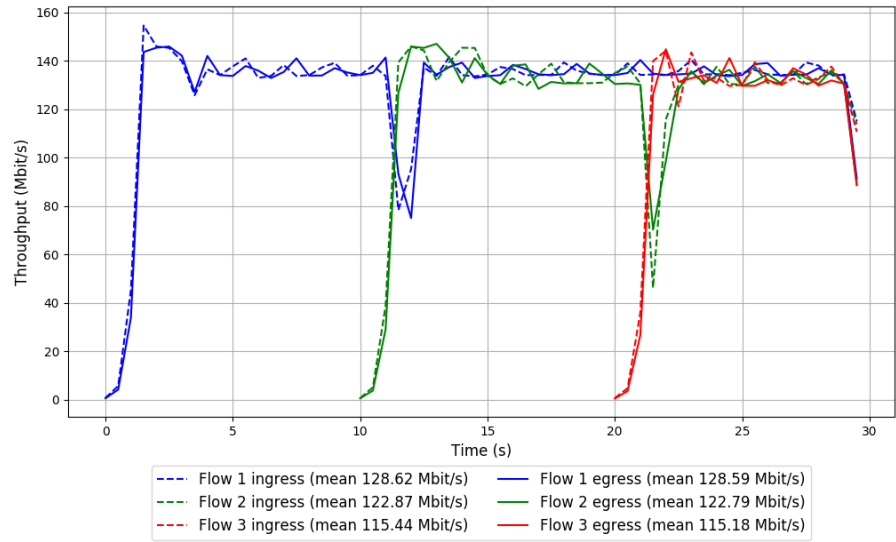
-- Flow 3:

Average throughput: 115.18 Mbit/s

95th percentile per-packet one-way delay: 72.710 ms

Loss rate: 1.92%

Run 8: Report of TCP BBR — Data Link

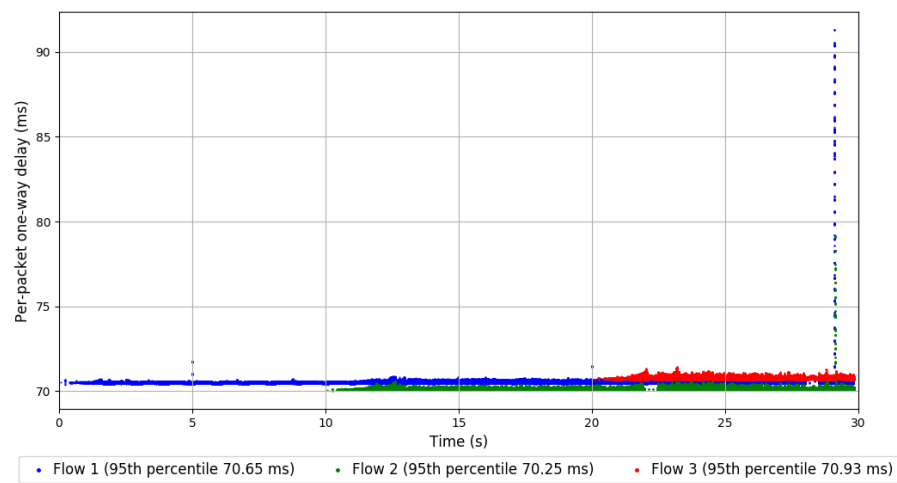
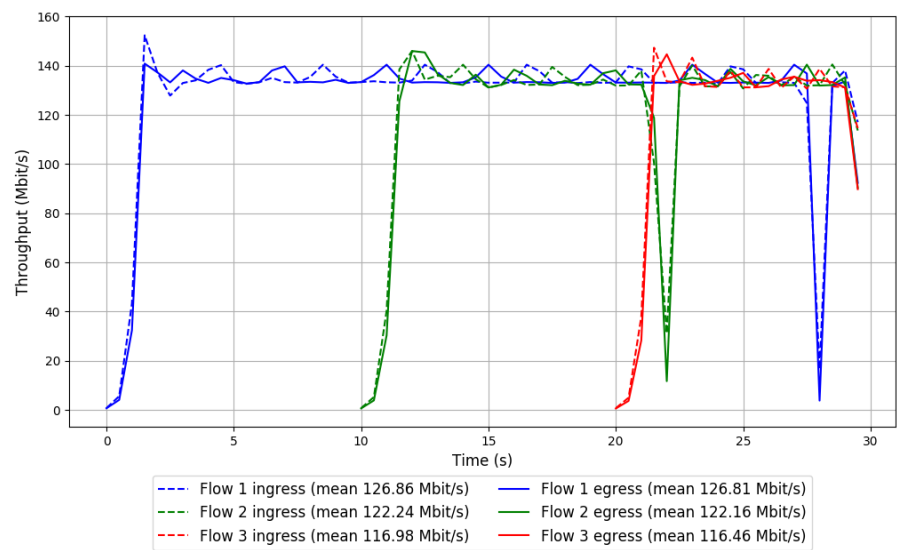


Run 9: Statistics of TCP BBR

Start at: 2017-12-11 22:38:11
End at: 2017-12-11 22:38:41
Local clock offset: -0.18 ms
Remote clock offset: 10.038 ms

Below is generated by plot.py at 2017-12-12 02:51:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.98 Mbit/s
95th percentile per-packet one-way delay: 70.796 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 126.81 Mbit/s
95th percentile per-packet one-way delay: 70.652 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 122.16 Mbit/s
95th percentile per-packet one-way delay: 70.254 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 116.46 Mbit/s
95th percentile per-packet one-way delay: 70.928 ms
Loss rate: 1.89%

Run 9: Report of TCP BBR — Data Link

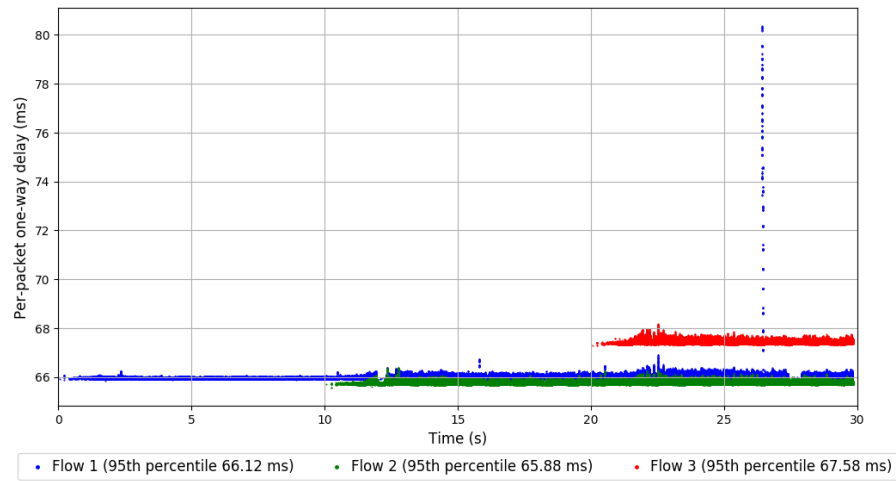
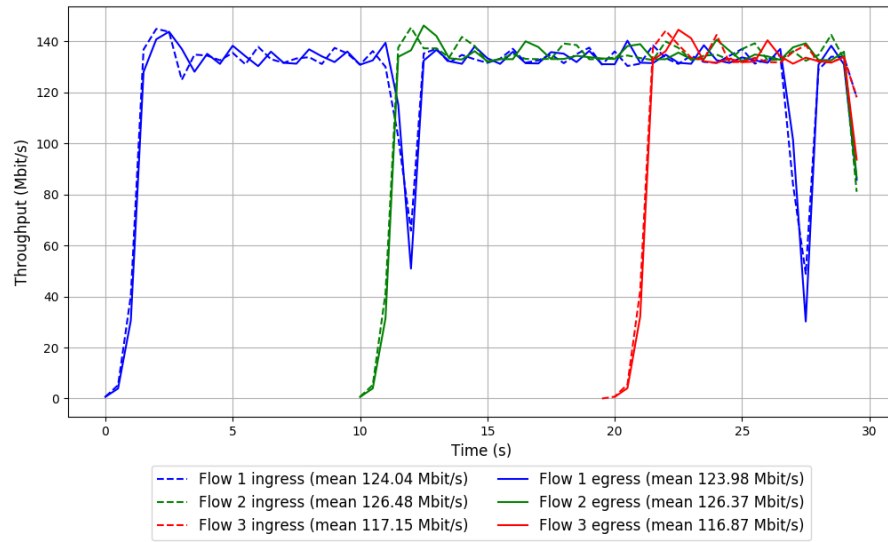


Run 10: Statistics of TCP BBR

Start at: 2017-12-11 22:58:08
End at: 2017-12-11 22:58:38
Local clock offset: -0.282 ms
Remote clock offset: 15.631 ms

Below is generated by plot.py at 2017-12-12 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.13 Mbit/s
95th percentile per-packet one-way delay: 67.466 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 123.98 Mbit/s
95th percentile per-packet one-way delay: 66.116 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 126.37 Mbit/s
95th percentile per-packet one-way delay: 65.881 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 116.87 Mbit/s
95th percentile per-packet one-way delay: 67.576 ms
Loss rate: 1.96%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 20:15:26

End at: 2017-12-11 20:15:56

Local clock offset: 0.02 ms

Remote clock offset: 9.712 ms

Below is generated by plot.py at 2017-12-12 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.59 Mbit/s

95th percentile per-packet one-way delay: 76.703 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 102.47 Mbit/s

95th percentile per-packet one-way delay: 77.895 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 73.228 ms

Loss rate: 1.11%

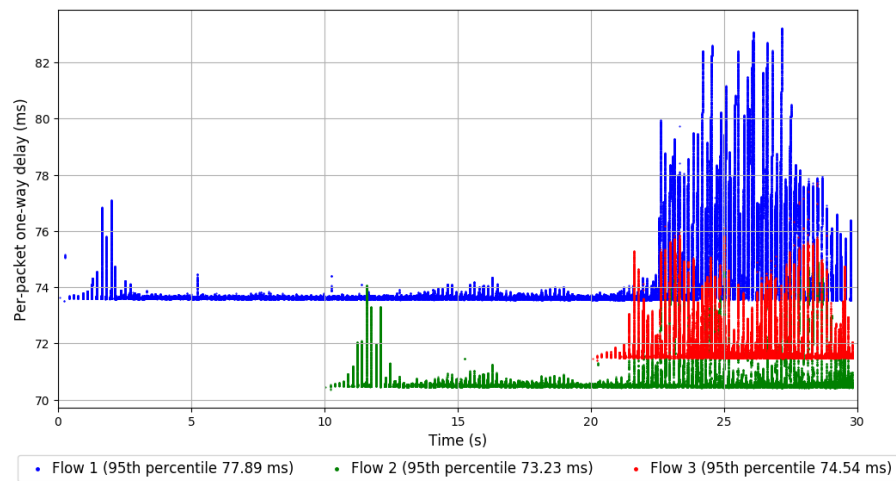
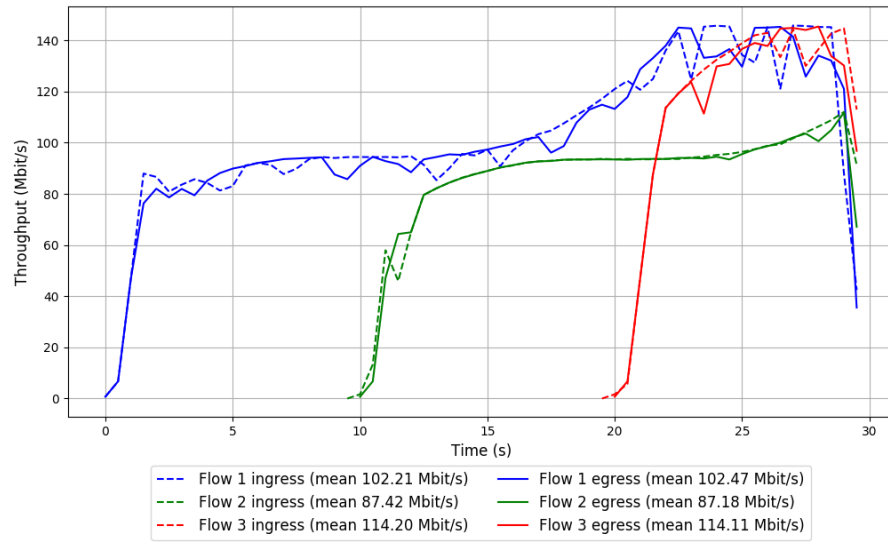
-- Flow 3:

Average throughput: 114.11 Mbit/s

95th percentile per-packet one-way delay: 74.544 ms

Loss rate: 1.79%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 20:35:37

End at: 2017-12-11 20:36:07

Local clock offset: 0.047 ms

Remote clock offset: 7.865 ms

Below is generated by plot.py at 2017-12-12 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.76 Mbit/s

95th percentile per-packet one-way delay: 72.898 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 72.460 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 71.960 ms

Loss rate: 1.17%

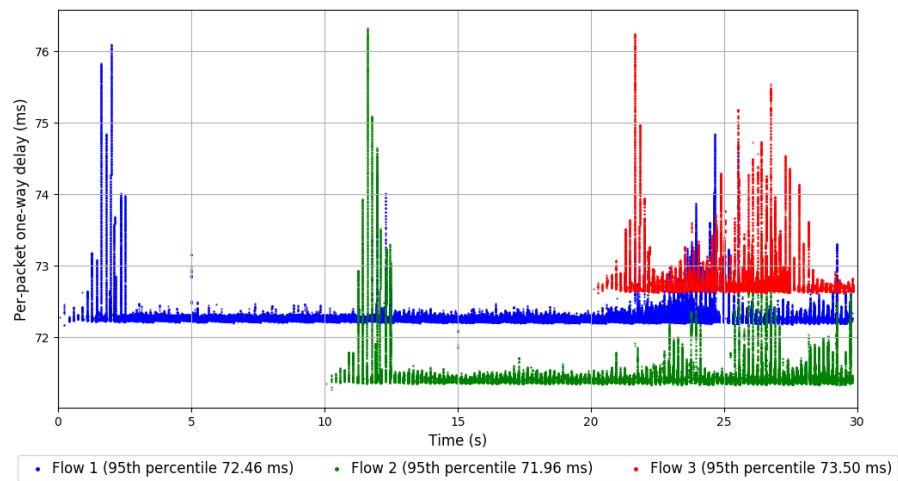
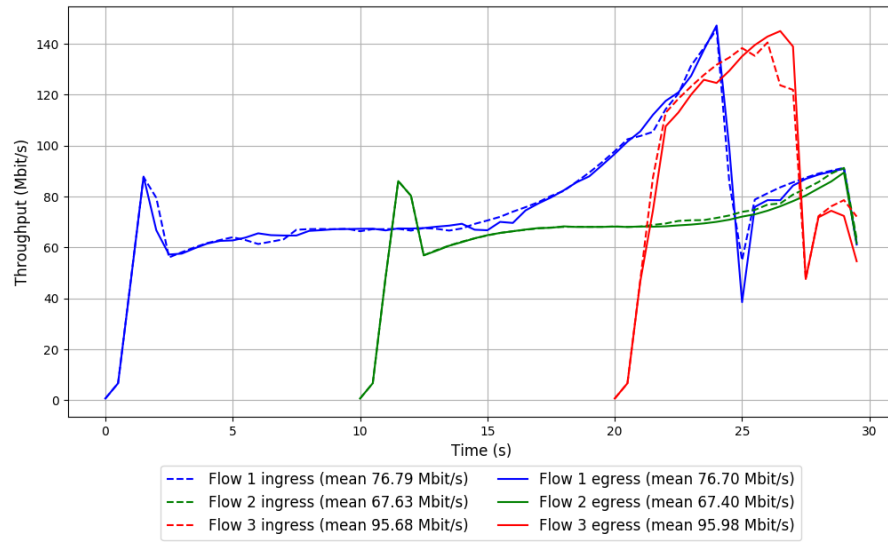
-- Flow 3:

Average throughput: 95.98 Mbit/s

95th percentile per-packet one-way delay: 73.499 ms

Loss rate: 1.37%

Run 2: Report of TCP Cubic — Data Link

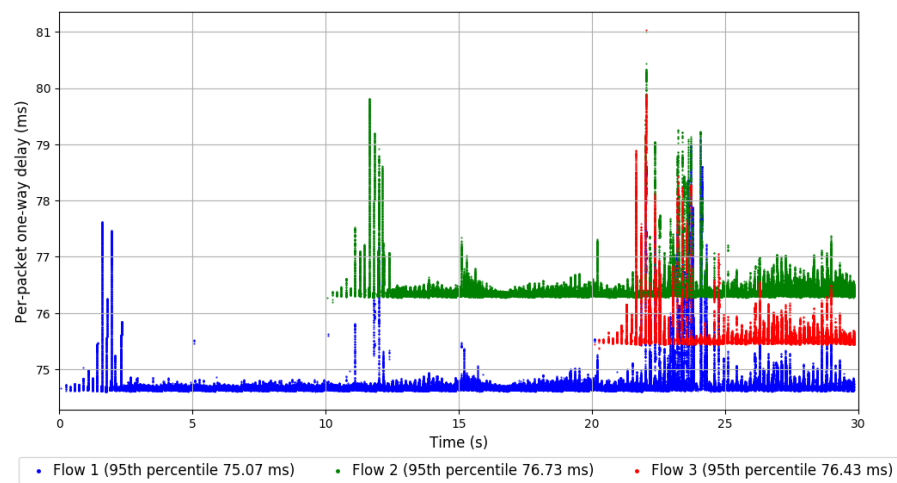
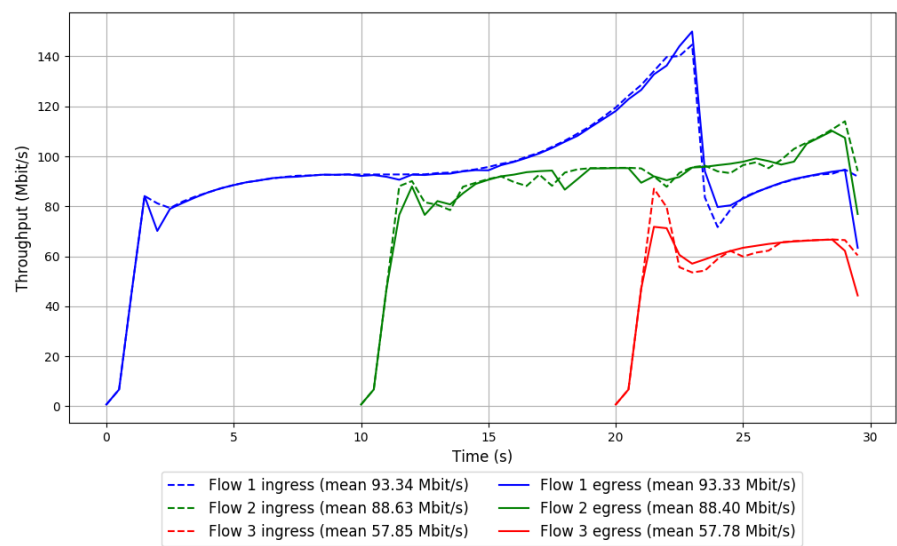


Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 20:56:14
End at: 2017-12-11 20:56:44
Local clock offset: -0.034 ms
Remote clock offset: 4.237 ms

Below is generated by plot.py at 2017-12-12 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 170.93 Mbit/s
95th percentile per-packet one-way delay: 76.504 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 75.066 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 76.731 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 57.78 Mbit/s
95th percentile per-packet one-way delay: 76.431 ms
Loss rate: 1.82%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 21:16:19

End at: 2017-12-11 21:16:49

Local clock offset: -0.066 ms

Remote clock offset: 20.81 ms

Below is generated by plot.py at 2017-12-12 02:51:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.89 Mbit/s

95th percentile per-packet one-way delay: 60.164 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 102.34 Mbit/s

95th percentile per-packet one-way delay: 58.490 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 65.43 Mbit/s

95th percentile per-packet one-way delay: 60.395 ms

Loss rate: 1.20%

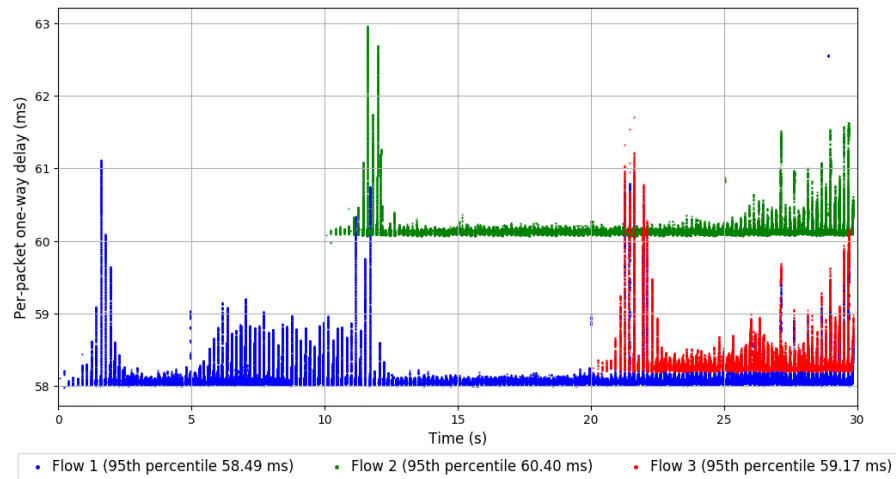
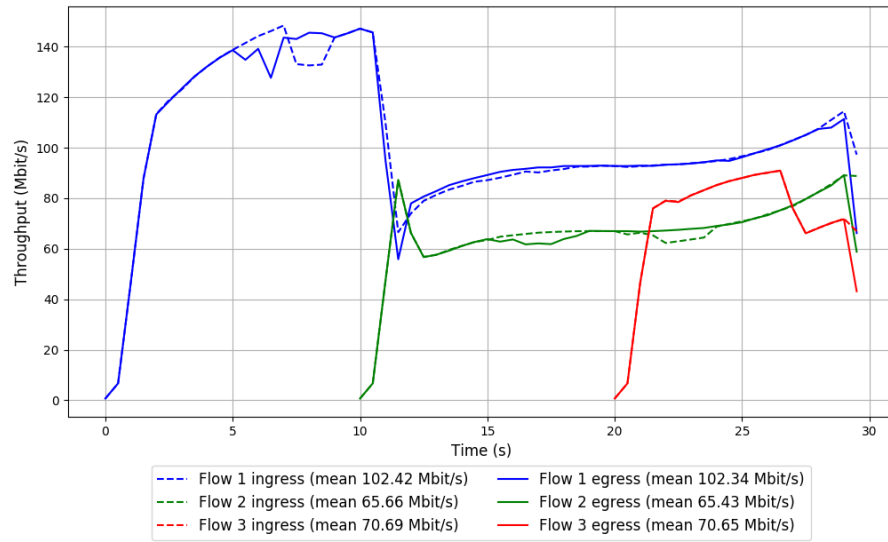
-- Flow 3:

Average throughput: 70.65 Mbit/s

95th percentile per-packet one-way delay: 59.174 ms

Loss rate: 1.73%

Run 4: Report of TCP Cubic — Data Link

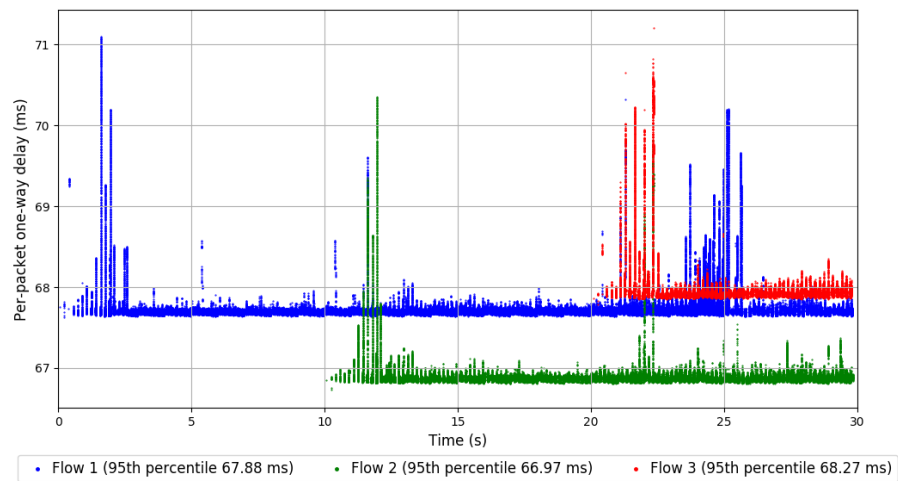
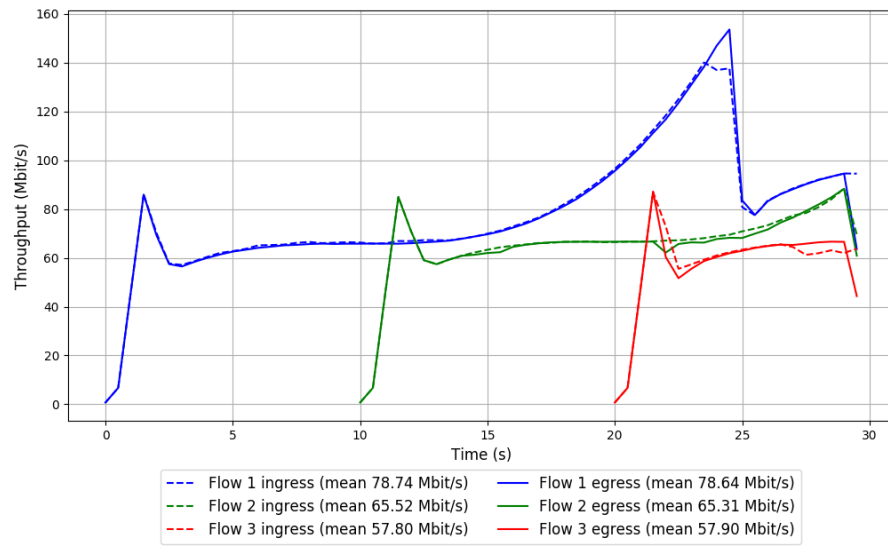


Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 21:36:25
End at: 2017-12-11 21:36:55
Local clock offset: -0.122 ms
Remote clock offset: 11.375 ms

Below is generated by plot.py at 2017-12-12 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.80 Mbit/s
95th percentile per-packet one-way delay: 67.965 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 78.64 Mbit/s
95th percentile per-packet one-way delay: 67.876 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 65.31 Mbit/s
95th percentile per-packet one-way delay: 66.973 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 57.90 Mbit/s
95th percentile per-packet one-way delay: 68.267 ms
Loss rate: 1.94%

Run 5: Report of TCP Cubic — Data Link

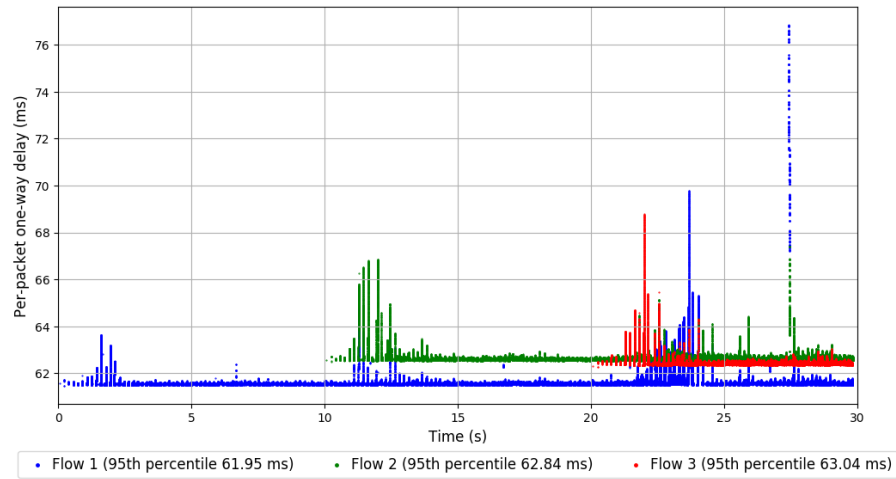
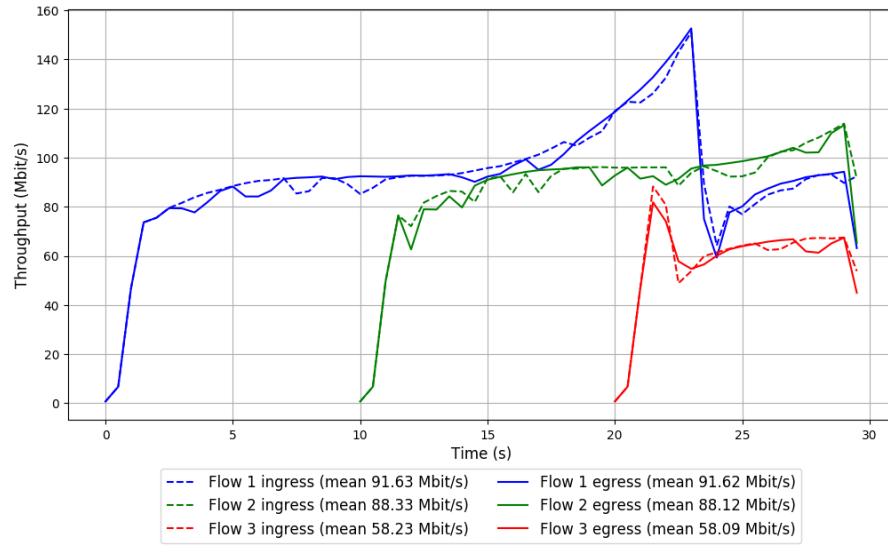


Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 21:56:49
End at: 2017-12-11 21:57:19
Local clock offset: -0.127 ms
Remote clock offset: 18.424 ms

Below is generated by plot.py at 2017-12-12 02:51:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 169.06 Mbit/s
95th percentile per-packet one-way delay: 62.723 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 61.953 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 62.836 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 63.043 ms
Loss rate: 1.95%

Run 6: Report of TCP Cubic — Data Link

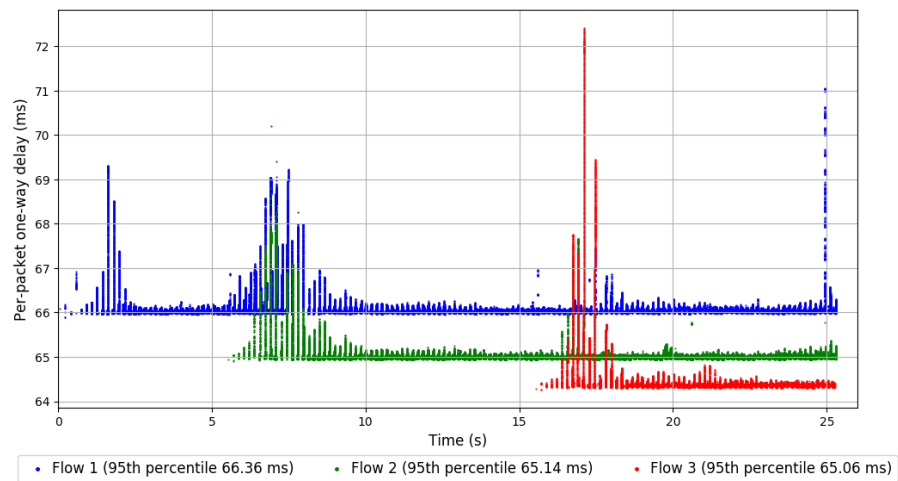
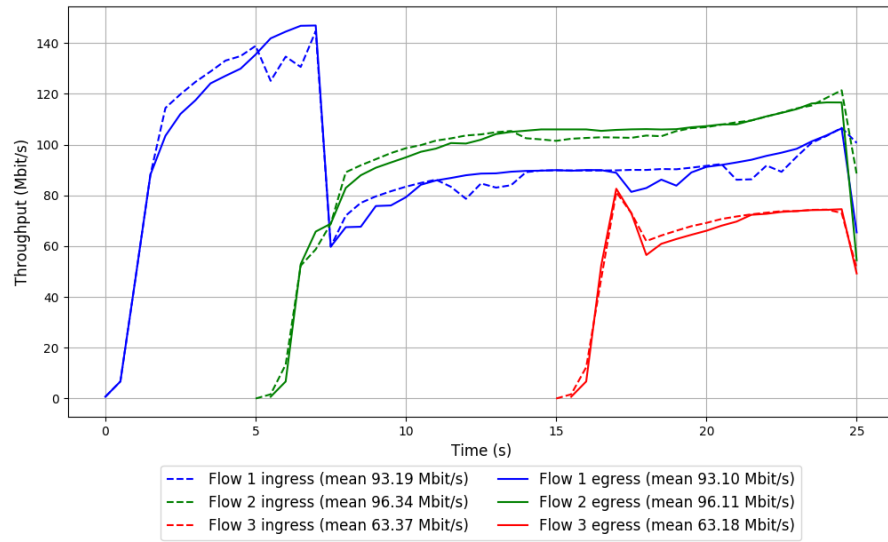


Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 22:16:50
End at: 2017-12-11 22:17:20
Local clock offset: -0.15 ms
Remote clock offset: 15.035 ms

Below is generated by plot.py at 2017-12-12 02:52:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 192.71 Mbit/s
95th percentile per-packet one-way delay: 66.169 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 66.357 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 65.144 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 65.065 ms
Loss rate: 1.99%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 22:36:46

End at: 2017-12-11 22:37:16

Local clock offset: -0.213 ms

Remote clock offset: 9.961 ms

Below is generated by plot.py at 2017-12-12 02:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.75 Mbit/s

95th percentile per-packet one-way delay: 71.965 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 100.10 Mbit/s

95th percentile per-packet one-way delay: 72.091 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 70.876 ms

Loss rate: 1.12%

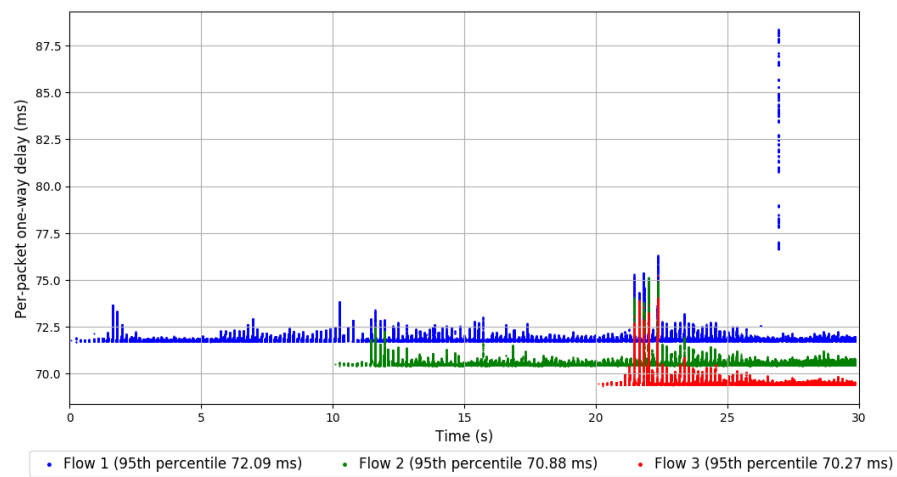
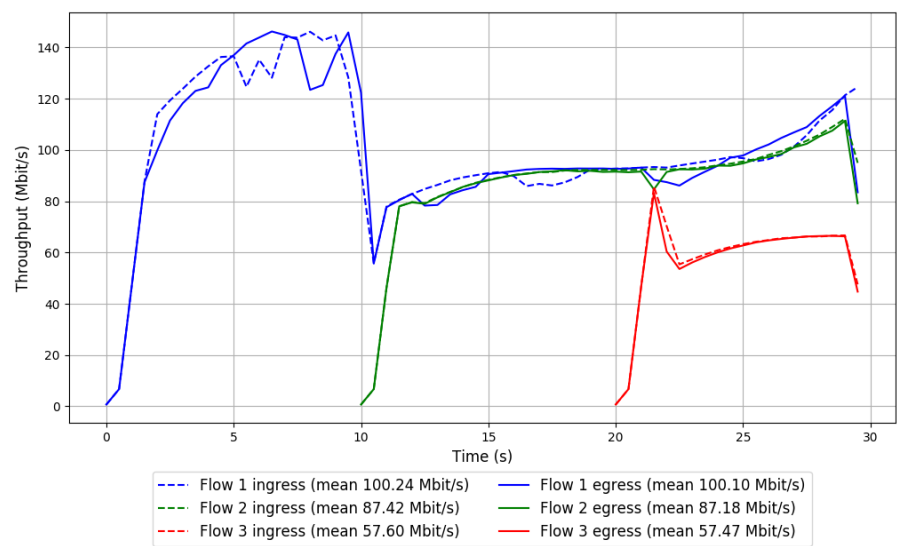
-- Flow 3:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 70.268 ms

Loss rate: 1.94%

Run 8: Report of TCP Cubic — Data Link

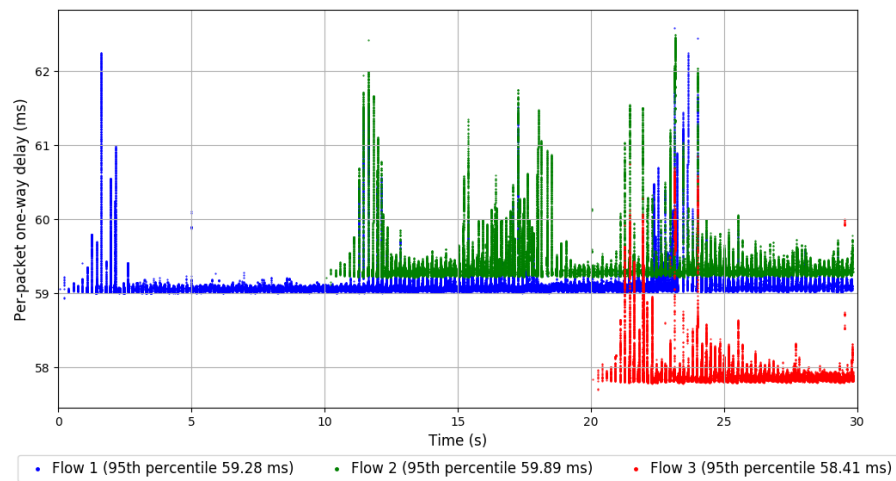
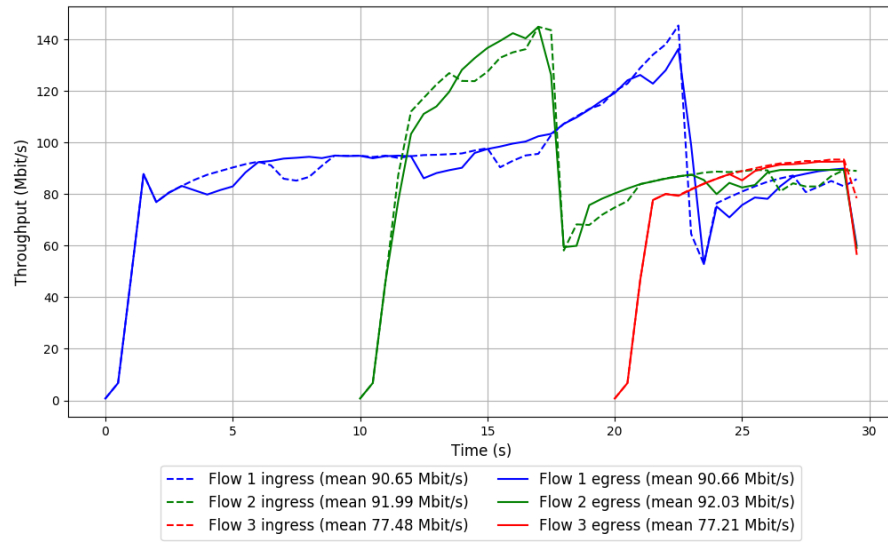


Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 22:56:43
End at: 2017-12-11 22:57:13
Local clock offset: -0.252 ms
Remote clock offset: 23.729 ms

Below is generated by plot.py at 2017-12-12 02:52:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 176.94 Mbit/s
95th percentile per-packet one-way delay: 59.556 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 90.66 Mbit/s
95th percentile per-packet one-way delay: 59.277 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 92.03 Mbit/s
95th percentile per-packet one-way delay: 59.890 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 58.415 ms
Loss rate: 2.02%

Run 9: Report of TCP Cubic — Data Link

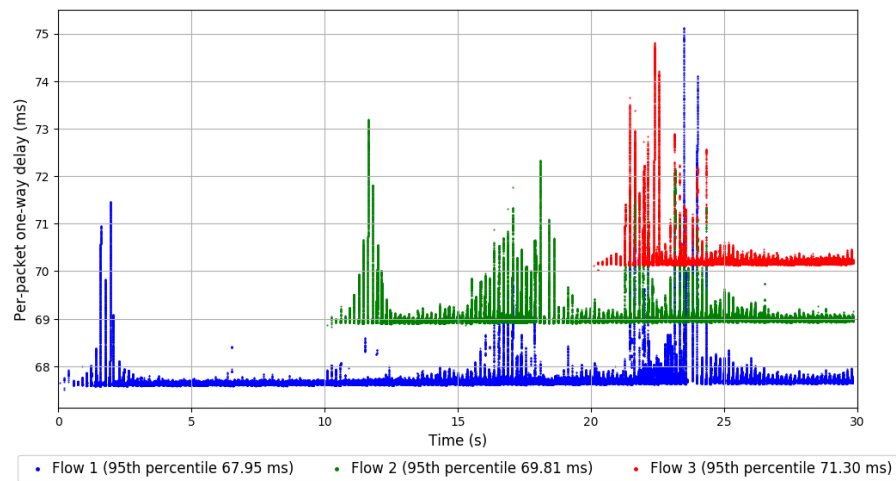
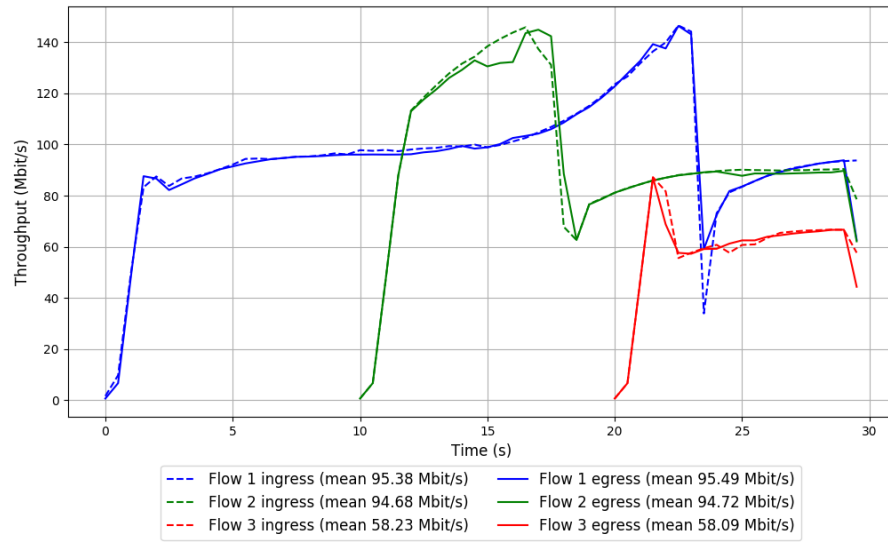


Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 23:16:50
End at: 2017-12-11 23:17:20
Local clock offset: -0.75 ms
Remote clock offset: 13.395 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.22 Mbit/s
95th percentile per-packet one-way delay: 70.212 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 67.951 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 69.811 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 71.295 ms
Loss rate: 1.92%

Run 10: Report of TCP Cubic — Data Link

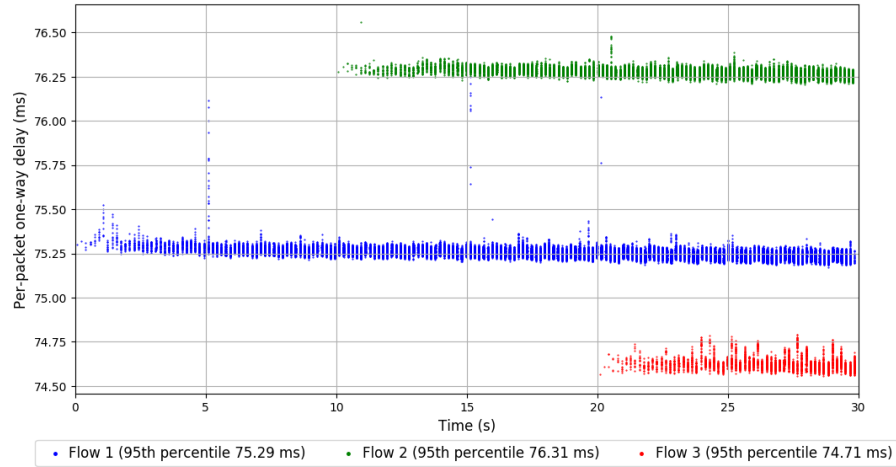
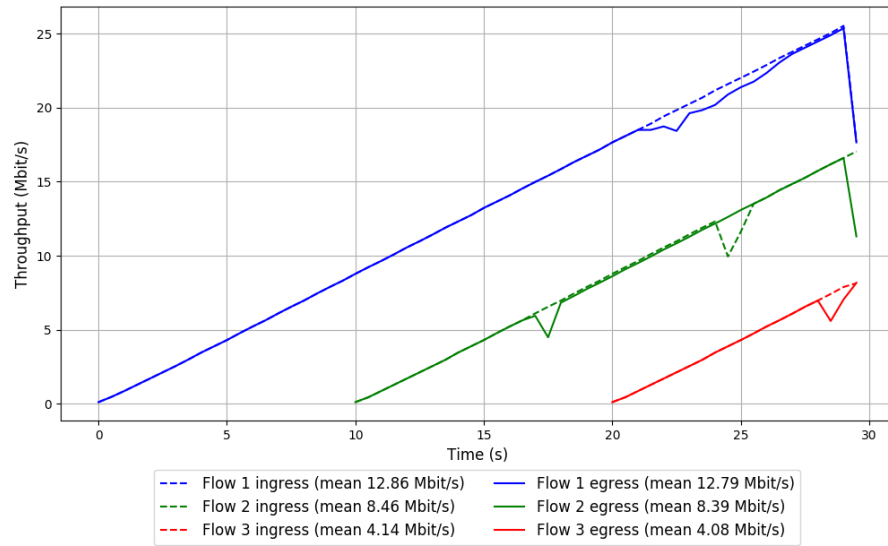


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 20:14:11
End at: 2017-12-11 20:14:41
Local clock offset: 0.001 ms
Remote clock offset: 7.13 ms

# Below is generated by plot.py at 2017-12-12 02:52:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 76.296 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 75.291 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 76.311 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 74.713 ms
Loss rate: 3.23%
```


Run 1: Report of LEDBAT — Data Link

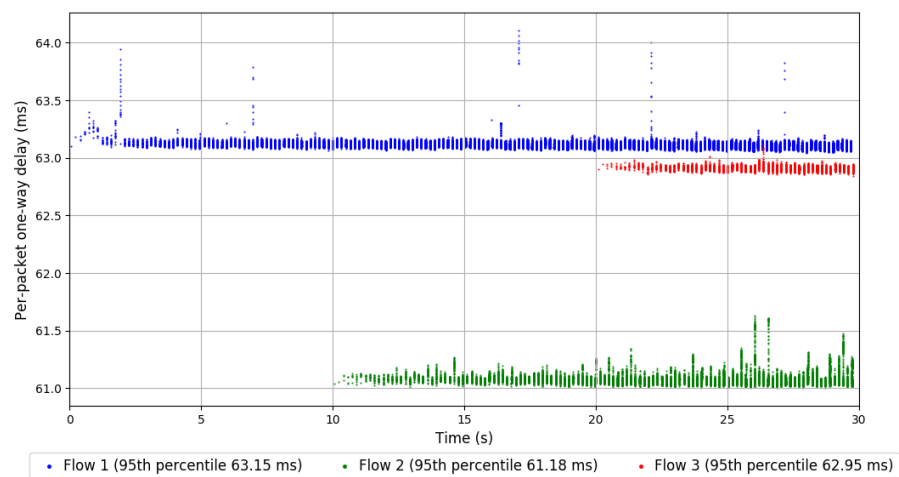
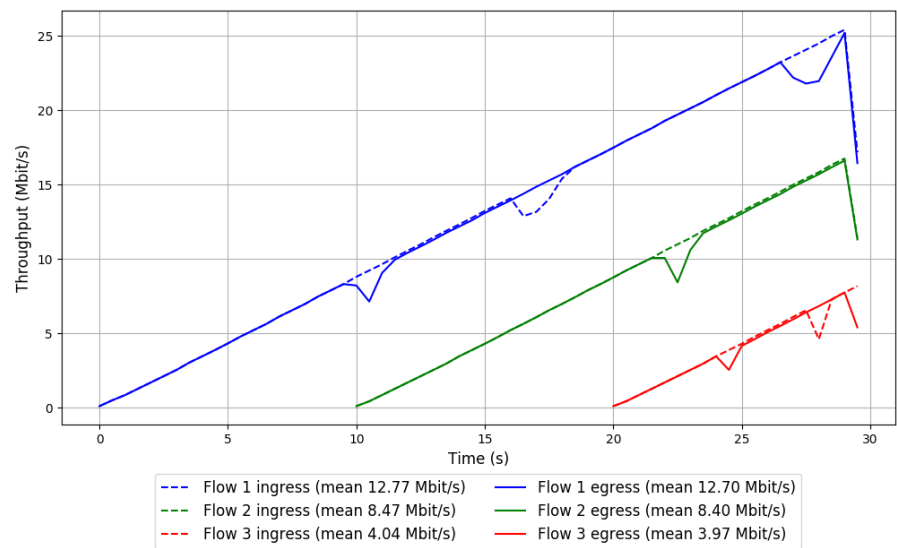


Run 2: Statistics of LEDBAT

Start at: 2017-12-11 20:34:22
End at: 2017-12-11 20:34:52
Local clock offset: 0.048 ms
Remote clock offset: 18.938 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 63.143 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 63.147 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 61.183 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 62.946 ms
Loss rate: 3.48%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

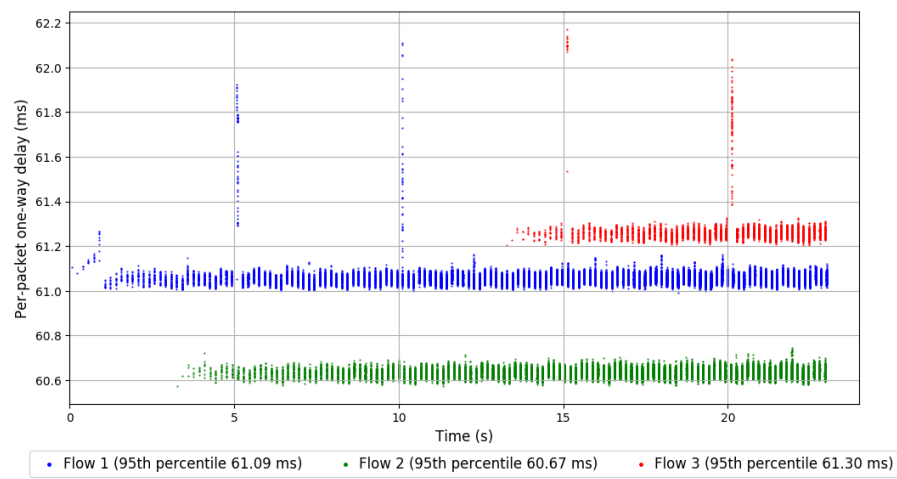
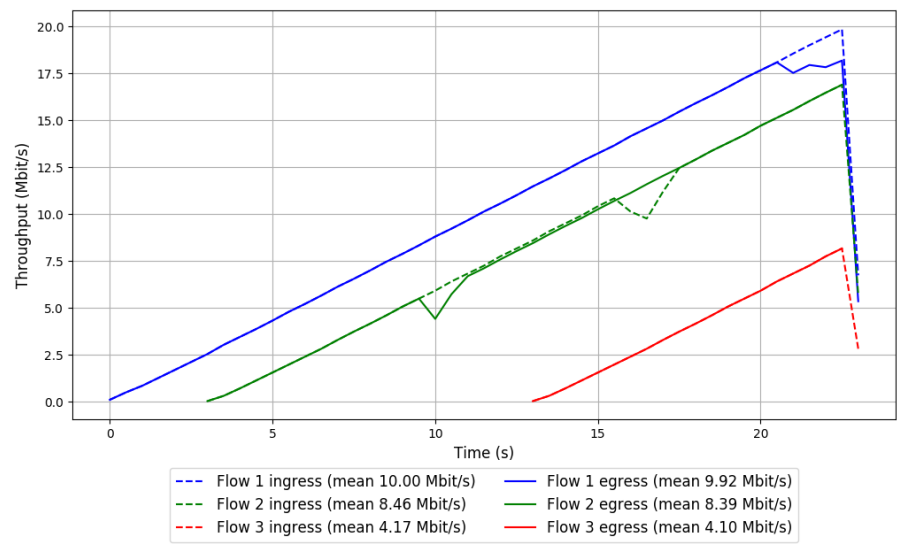
Start at: 2017-12-11 20:54:58

End at: 2017-12-11 20:55:28

Local clock offset: -0.082 ms

Remote clock offset: 18.397 ms

Run 3: Report of LEDBAT — Data Link

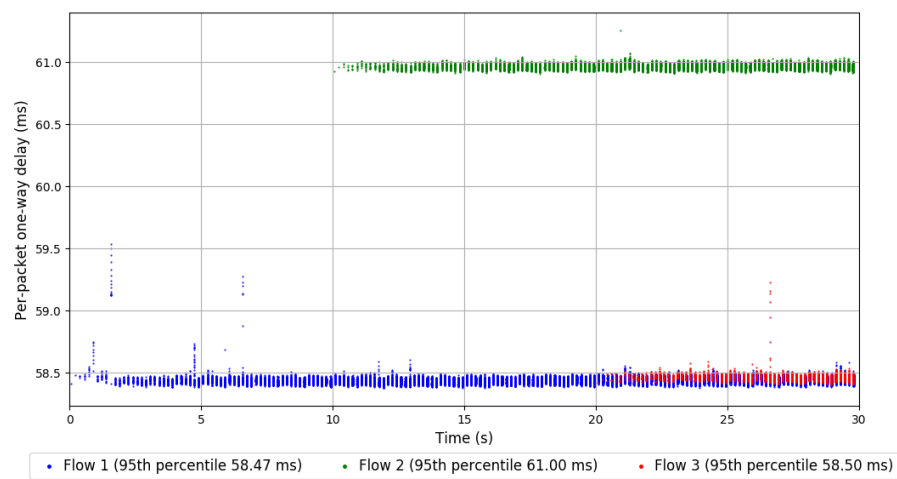
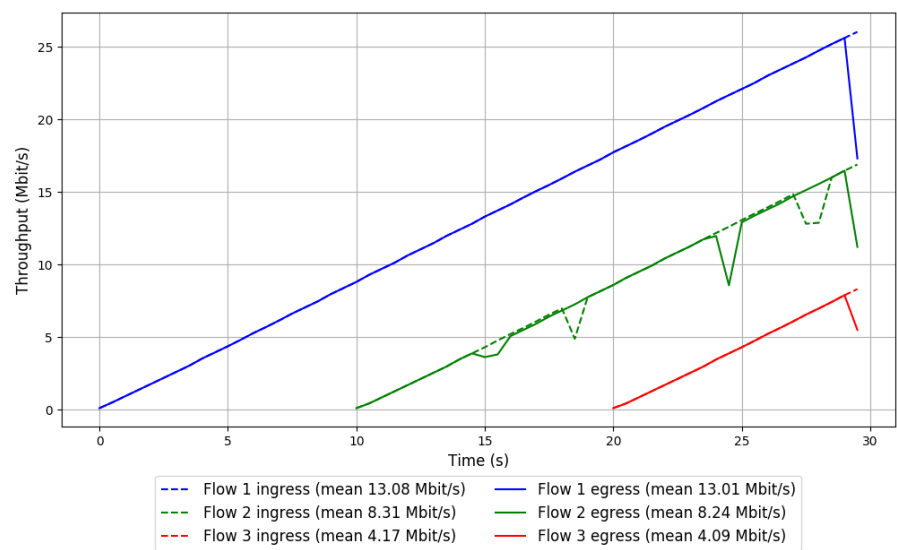


Run 4: Statistics of LEDBAT

Start at: 2017-12-11 21:15:04
End at: 2017-12-11 21:15:34
Local clock offset: -0.137 ms
Remote clock offset: 19.676 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.81 Mbit/s
95th percentile per-packet one-way delay: 60.981 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 58.472 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 60.996 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 58.499 ms
Loss rate: 3.42%

Run 4: Report of LEDBAT — Data Link

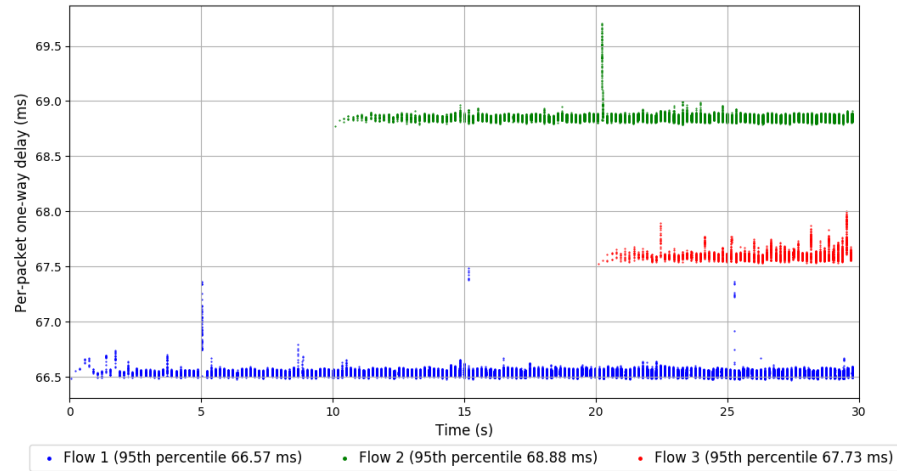
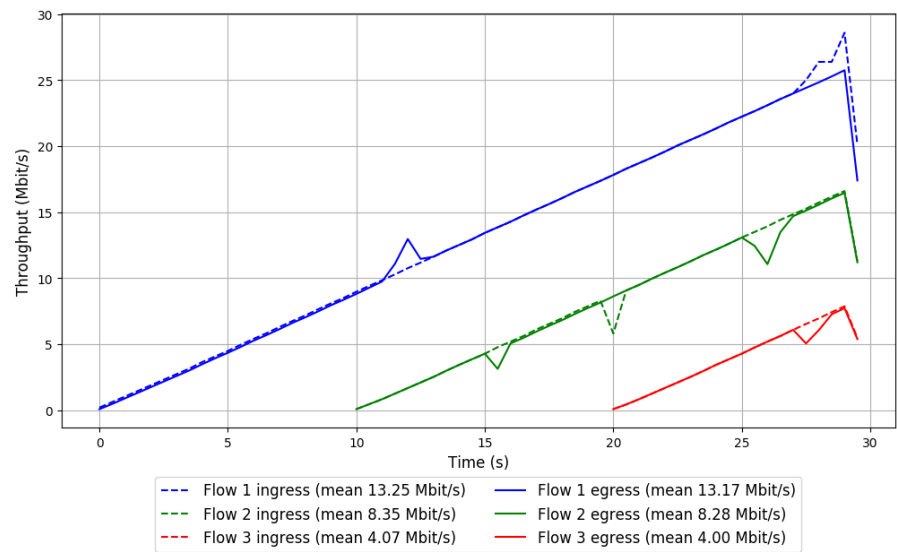


Run 5: Statistics of LEDBAT

Start at: 2017-12-11 21:35:04
End at: 2017-12-11 21:35:34
Local clock offset: -0.165 ms
Remote clock offset: 11.654 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 68.867 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 66.567 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 68.882 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 67.733 ms
Loss rate: 3.48%

Run 5: Report of LEDBAT — Data Link

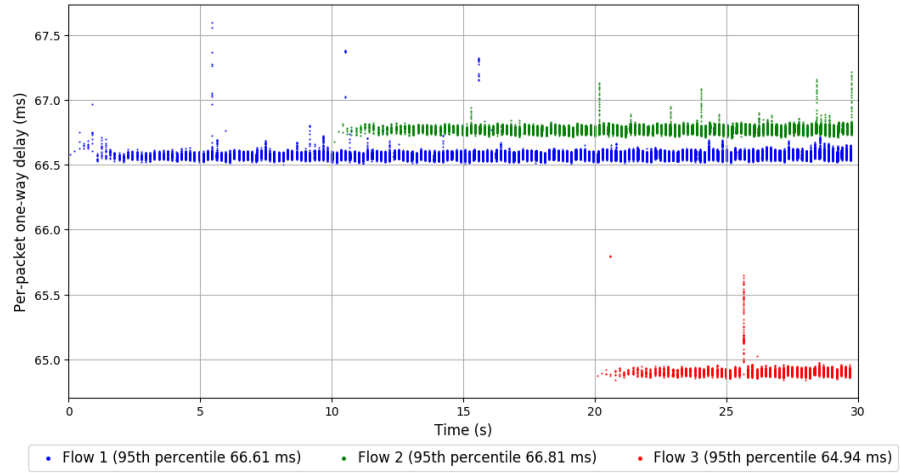
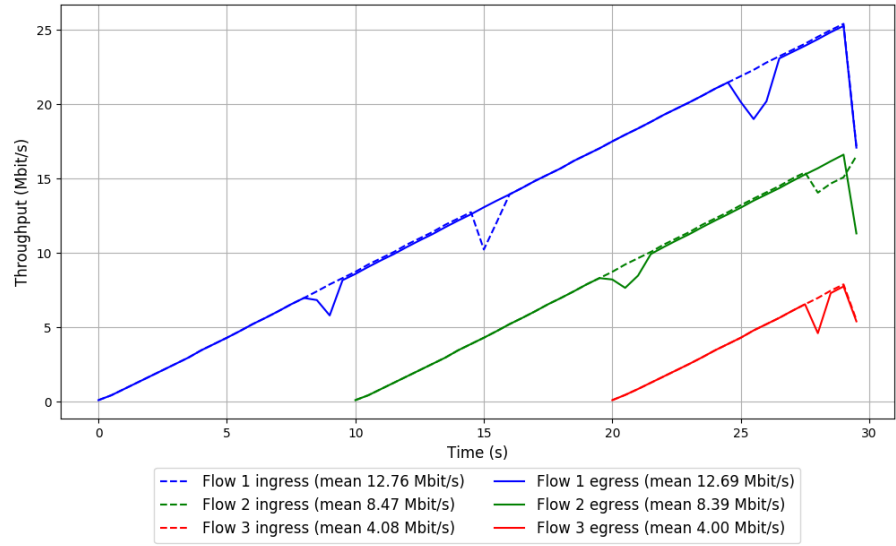


Run 6: Statistics of LEDBAT

Start at: 2017-12-11 21:55:34
End at: 2017-12-11 21:56:04
Local clock offset: -0.205 ms
Remote clock offset: 14.138 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.53 Mbit/s
95th percentile per-packet one-way delay: 66.793 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 66.607 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 66.806 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 64.941 ms
Loss rate: 3.48%

Run 6: Report of LEDBAT — Data Link

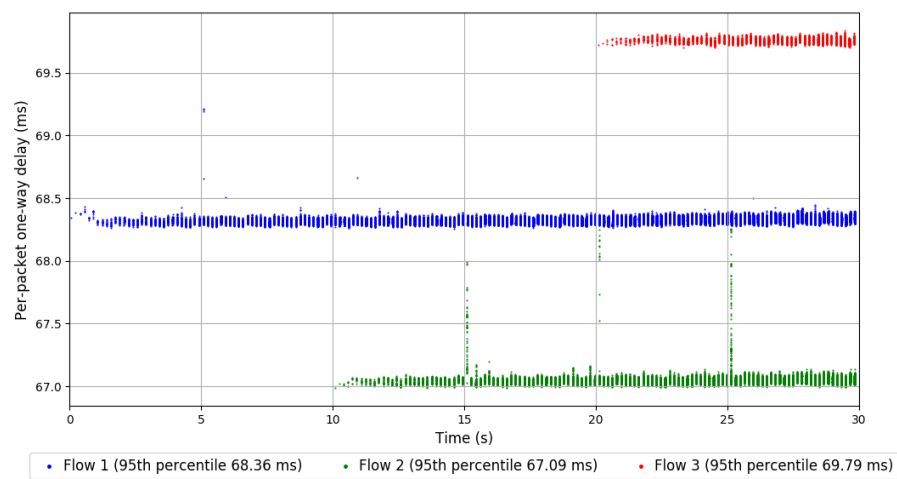
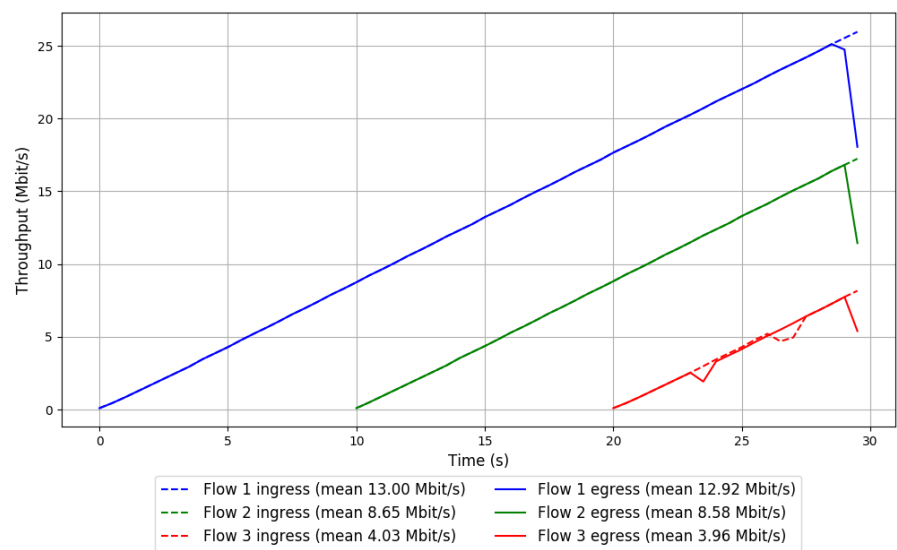


Run 7: Statistics of LEDBAT

Start at: 2017-12-11 22:15:34
End at: 2017-12-11 22:16:04
Local clock offset: -0.154 ms
Remote clock offset: 11.649 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.91 Mbit/s
95th percentile per-packet one-way delay: 69.743 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 68.361 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 67.086 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 69.792 ms
Loss rate: 3.48%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

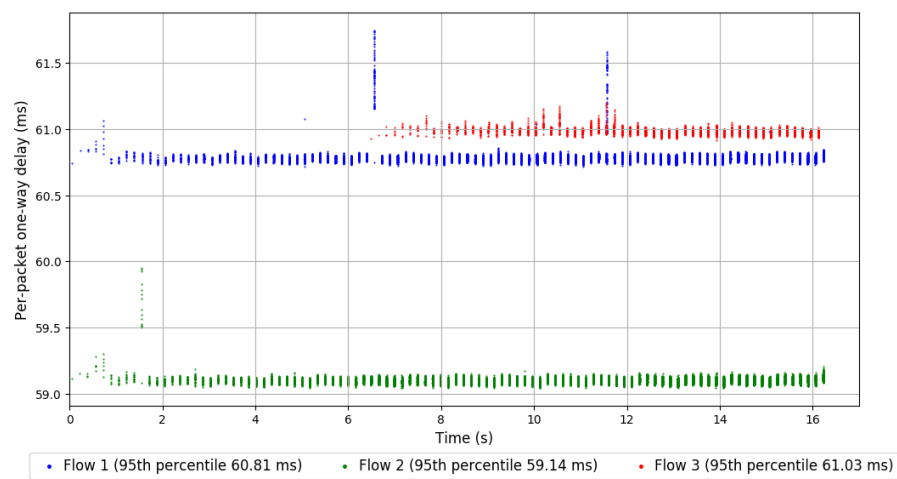
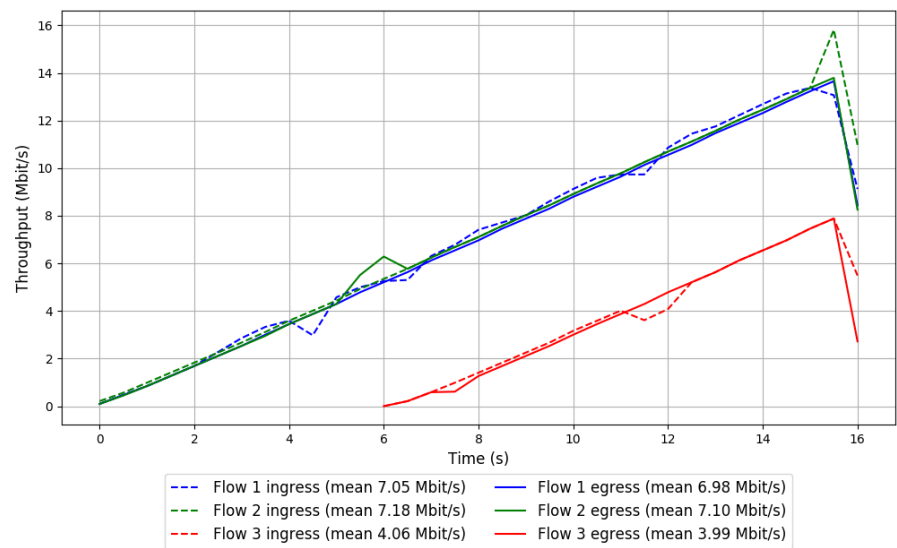
Start at: 2017-12-11 22:35:31

End at: 2017-12-11 22:36:01

Local clock offset: -0.188 ms

Remote clock offset: 19.898 ms

Run 8: Report of LEDBAT — Data Link

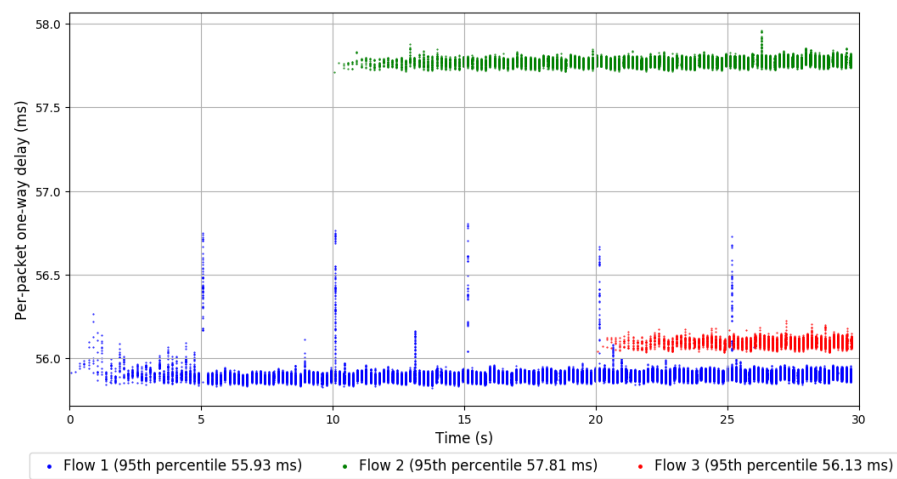
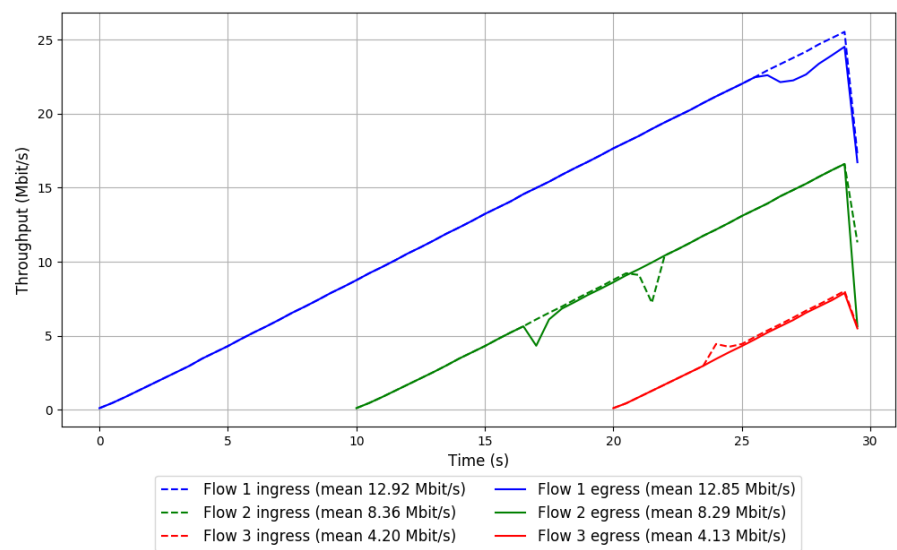


Run 9: Statistics of LEDBAT

Start at: 2017-12-11 22:55:27
End at: 2017-12-11 22:55:57
Local clock offset: -0.267 ms
Remote clock offset: 24.104 ms

Below is generated by plot.py at 2017-12-12 02:52:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.66 Mbit/s
95th percentile per-packet one-way delay: 57.793 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.85 Mbit/s
95th percentile per-packet one-way delay: 55.934 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 57.806 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 56.135 ms
Loss rate: 3.42%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 23:15:34

End at: 2017-12-11 23:16:04

Local clock offset: -0.604 ms

Remote clock offset: 6.22 ms

Below is generated by plot.py at 2017-12-12 02:52:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.48 Mbit/s

95th percentile per-packet one-way delay: 76.574 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 75.941 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 76.620 ms

Loss rate: 1.72%

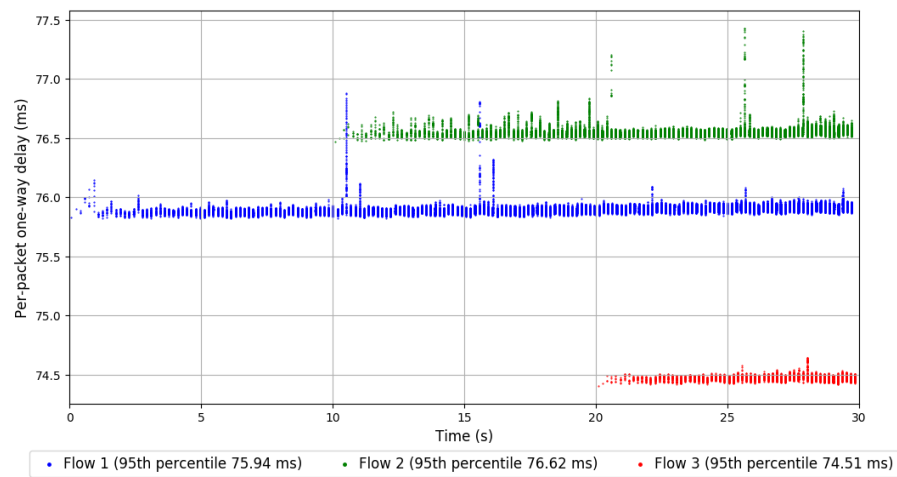
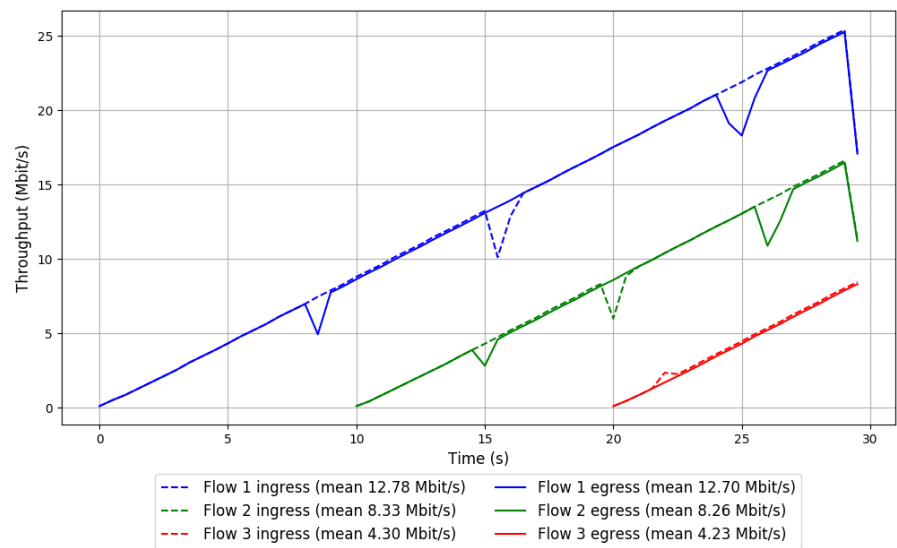
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 74.509 ms

Loss rate: 3.36%

Run 10: Report of LEDBAT — Data Link

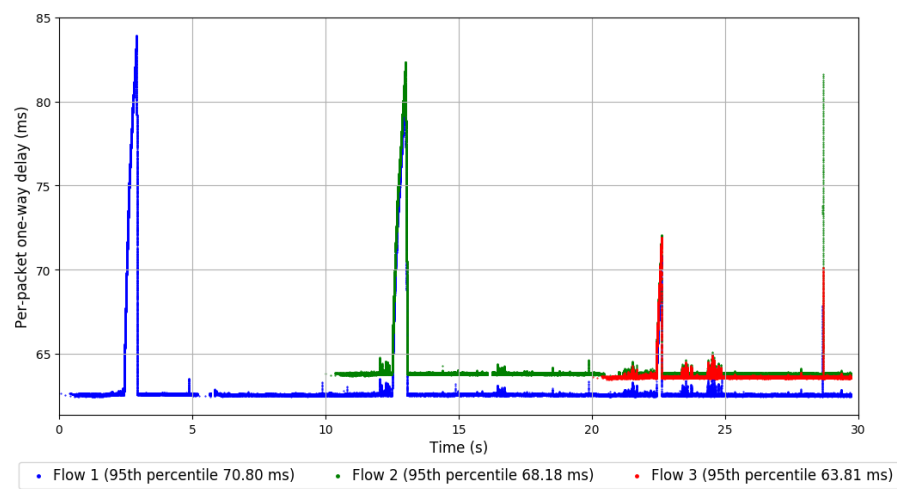
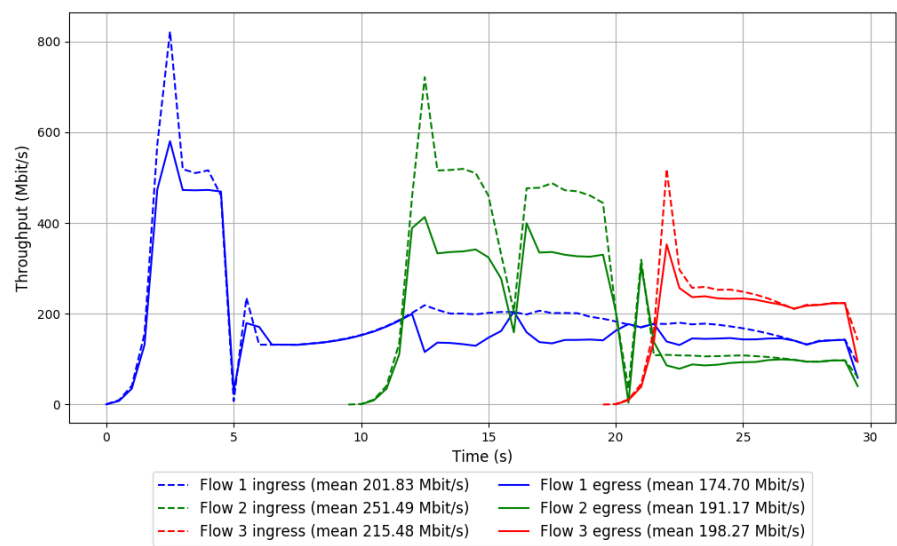


Run 1: Statistics of PCC

Start at: 2017-12-11 20:12:40
End at: 2017-12-11 20:13:10
Local clock offset: 0.006 ms
Remote clock offset: 19.753 ms

Below is generated by plot.py at 2017-12-12 02:57:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 366.43 Mbit/s
95th percentile per-packet one-way delay: 68.010 ms
Loss rate: 17.29%
-- Flow 1:
Average throughput: 174.70 Mbit/s
95th percentile per-packet one-way delay: 70.796 ms
Loss rate: 13.93%
-- Flow 2:
Average throughput: 191.17 Mbit/s
95th percentile per-packet one-way delay: 68.182 ms
Loss rate: 24.63%
-- Flow 3:
Average throughput: 198.27 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 9.56%

Run 1: Report of PCC — Data Link

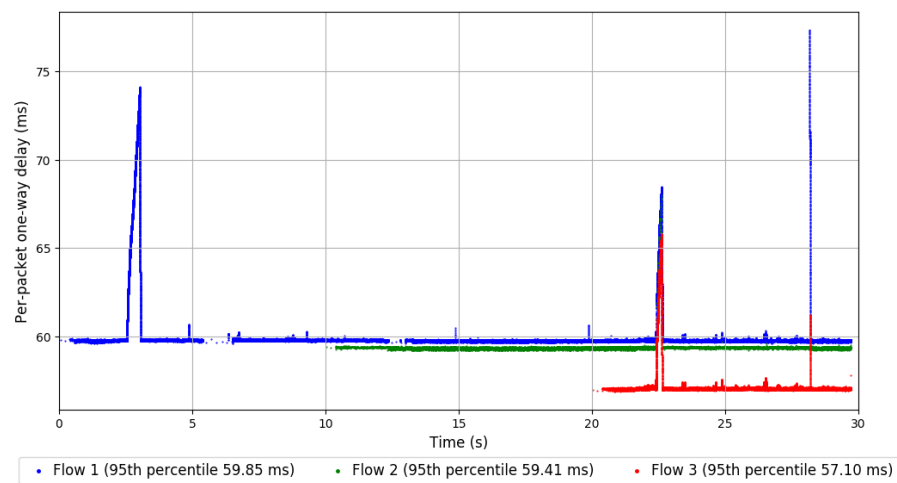
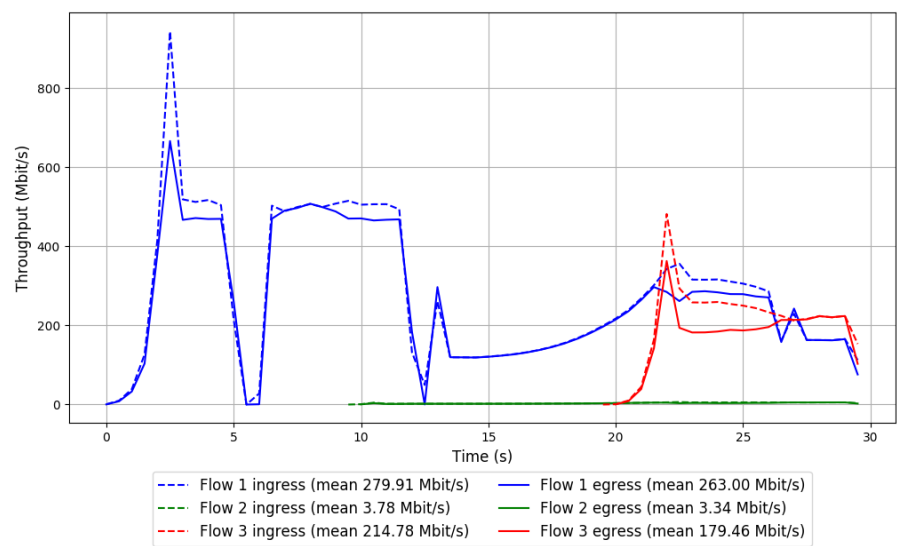


Run 2: Statistics of PCC

Start at: 2017-12-11 20:32:54
End at: 2017-12-11 20:33:24
Local clock offset: 0.053 ms
Remote clock offset: 22.386 ms

Below is generated by plot.py at 2017-12-12 02:57:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 323.78 Mbit/s
95th percentile per-packet one-way delay: 59.823 ms
Loss rate: 8.87%
-- Flow 1:
Average throughput: 263.00 Mbit/s
95th percentile per-packet one-way delay: 59.854 ms
Loss rate: 6.57%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 59.408 ms
Loss rate: 12.25%
-- Flow 3:
Average throughput: 179.46 Mbit/s
95th percentile per-packet one-way delay: 57.097 ms
Loss rate: 17.84%

Run 2: Report of PCC — Data Link

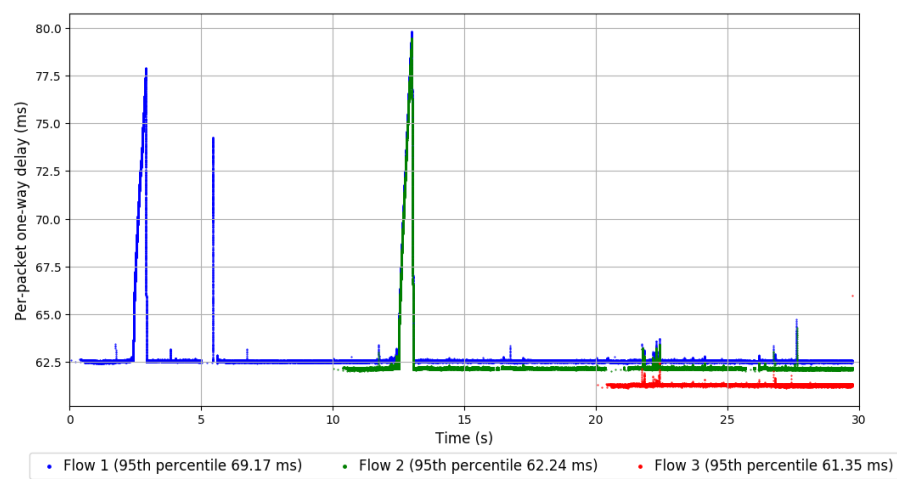
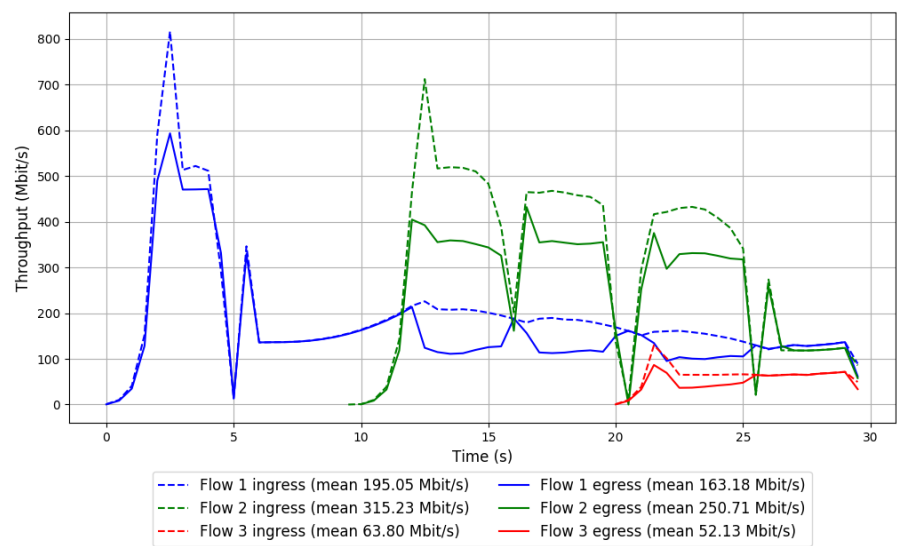


Run 3: Statistics of PCC

Start at: 2017-12-11 20:53:27
End at: 2017-12-11 20:53:57
Local clock offset: -0.016 ms
Remote clock offset: 16.555 ms

Below is generated by plot.py at 2017-12-12 02:57:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.53 Mbit/s
95th percentile per-packet one-way delay: 66.068 ms
Loss rate: 19.08%
-- Flow 1:
Average throughput: 163.18 Mbit/s
95th percentile per-packet one-way delay: 69.174 ms
Loss rate: 16.81%
-- Flow 2:
Average throughput: 250.71 Mbit/s
95th percentile per-packet one-way delay: 62.245 ms
Loss rate: 21.14%
-- Flow 3:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 61.353 ms
Loss rate: 19.63%

Run 3: Report of PCC — Data Link

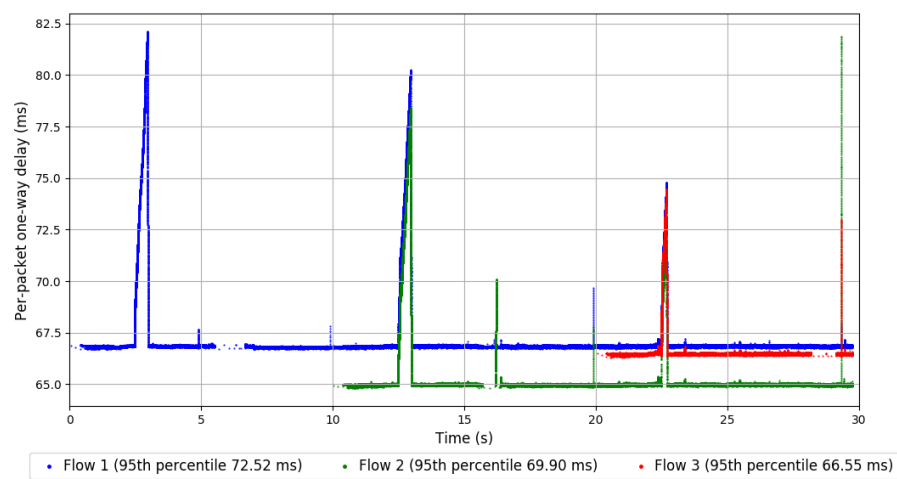
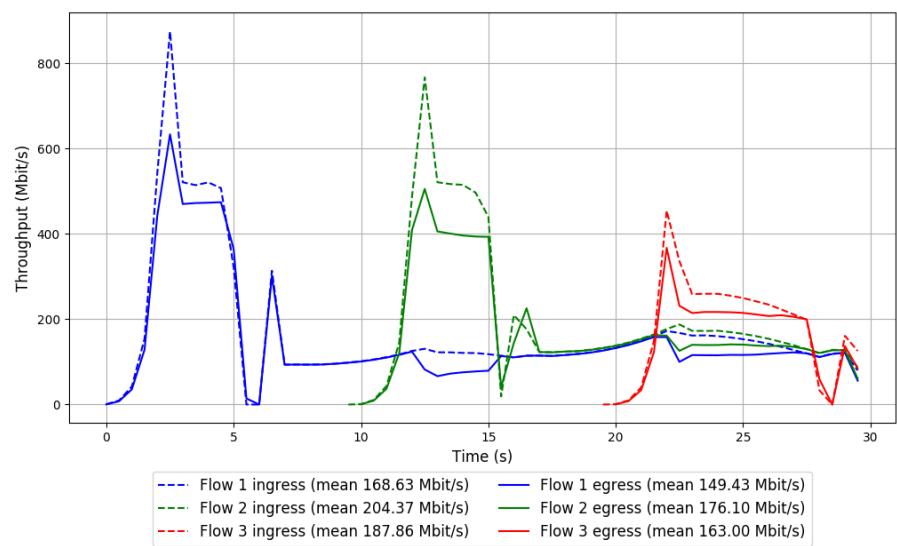


Run 4: Statistics of PCC

Start at: 2017-12-11 21:13:35
End at: 2017-12-11 21:14:05
Local clock offset: -0.125 ms
Remote clock offset: 12.932 ms

Below is generated by plot.py at 2017-12-12 02:57:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.56 Mbit/s
95th percentile per-packet one-way delay: 70.732 ms
Loss rate: 13.35%
-- Flow 1:
Average throughput: 149.43 Mbit/s
95th percentile per-packet one-way delay: 72.515 ms
Loss rate: 11.88%
-- Flow 2:
Average throughput: 176.10 Mbit/s
95th percentile per-packet one-way delay: 69.897 ms
Loss rate: 14.55%
-- Flow 3:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 66.552 ms
Loss rate: 14.70%

Run 4: Report of PCC — Data Link

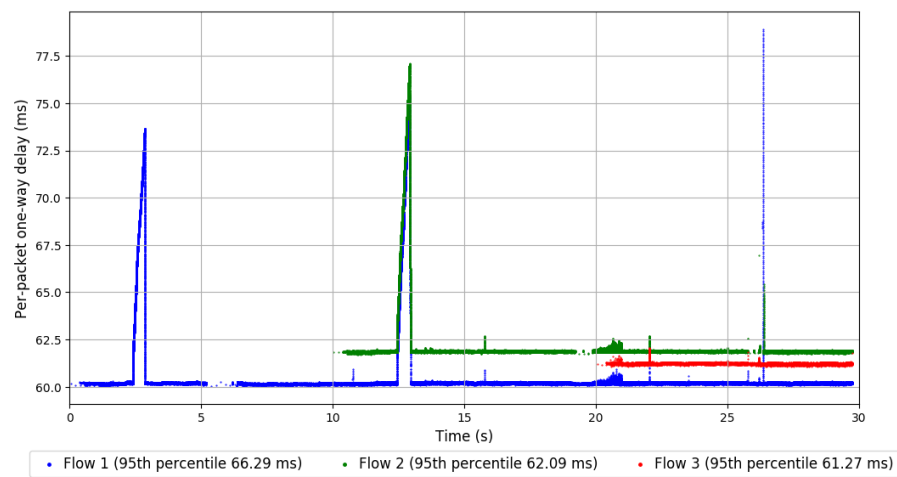
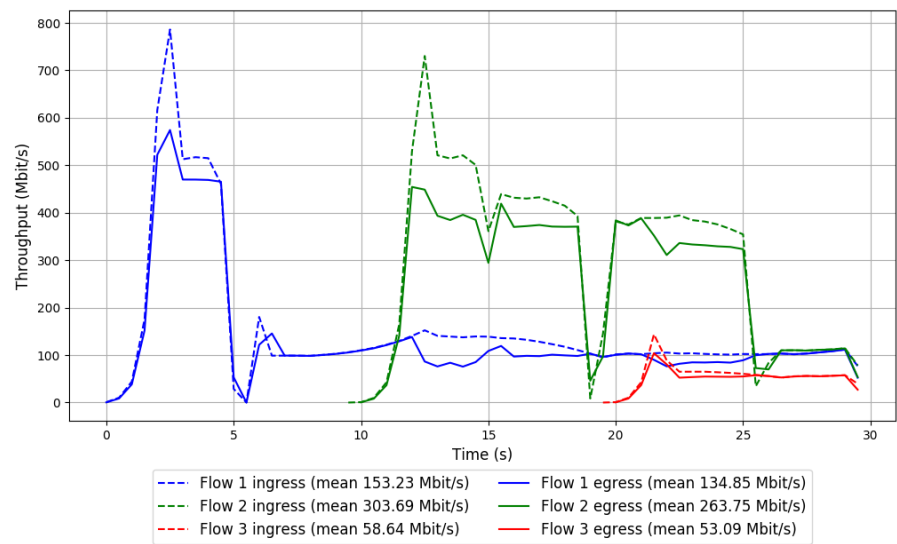


Run 5: Statistics of PCC

Start at: 2017-12-11 21:33:35
End at: 2017-12-11 21:34:05
Local clock offset: -0.067 ms
Remote clock offset: 18.062 ms

Below is generated by plot.py at 2017-12-12 02:57:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.19 Mbit/s
95th percentile per-packet one-way delay: 64.302 ms
Loss rate: 13.16%
-- Flow 1:
Average throughput: 134.85 Mbit/s
95th percentile per-packet one-way delay: 66.288 ms
Loss rate: 12.48%
-- Flow 2:
Average throughput: 263.75 Mbit/s
95th percentile per-packet one-way delay: 62.092 ms
Loss rate: 13.88%
-- Flow 3:
Average throughput: 53.09 Mbit/s
95th percentile per-packet one-way delay: 61.269 ms
Loss rate: 11.00%

Run 5: Report of PCC — Data Link

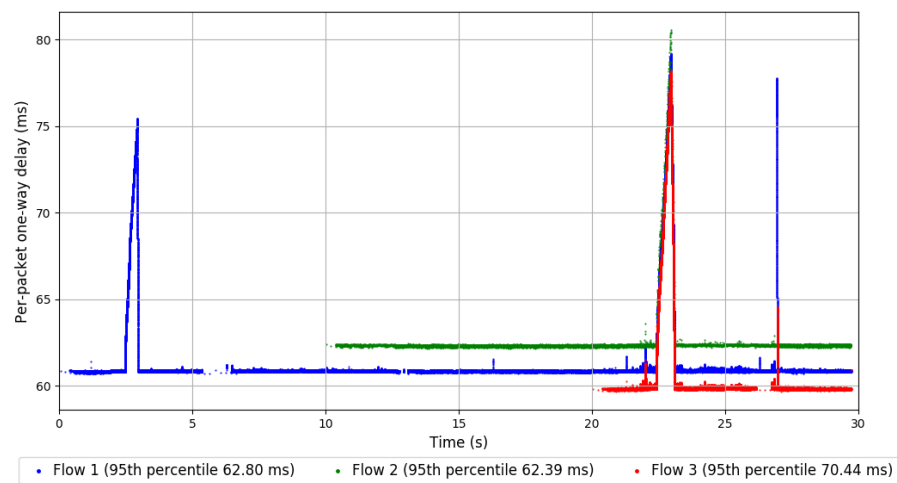
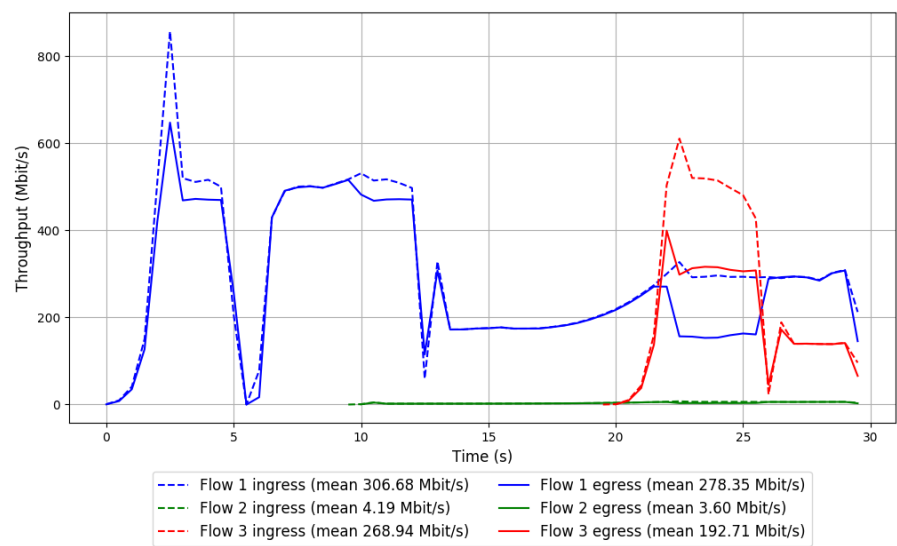


Run 6: Statistics of PCC

Start at: 2017-12-11 21:54:00
End at: 2017-12-11 21:54:30
Local clock offset: -0.134 ms
Remote clock offset: 18.423 ms

Below is generated by plot.py at 2017-12-12 02:57:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.63 Mbit/s
95th percentile per-packet one-way delay: 64.859 ms
Loss rate: 14.19%
-- Flow 1:
Average throughput: 278.35 Mbit/s
95th percentile per-packet one-way delay: 62.800 ms
Loss rate: 9.75%
-- Flow 2:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 62.388 ms
Loss rate: 14.72%
-- Flow 3:
Average throughput: 192.71 Mbit/s
95th percentile per-packet one-way delay: 70.440 ms
Loss rate: 29.54%

Run 6: Report of PCC — Data Link

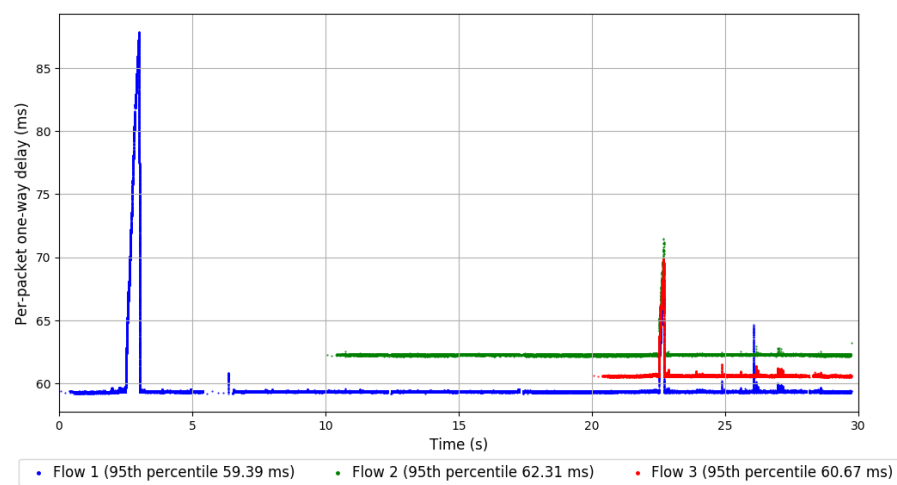
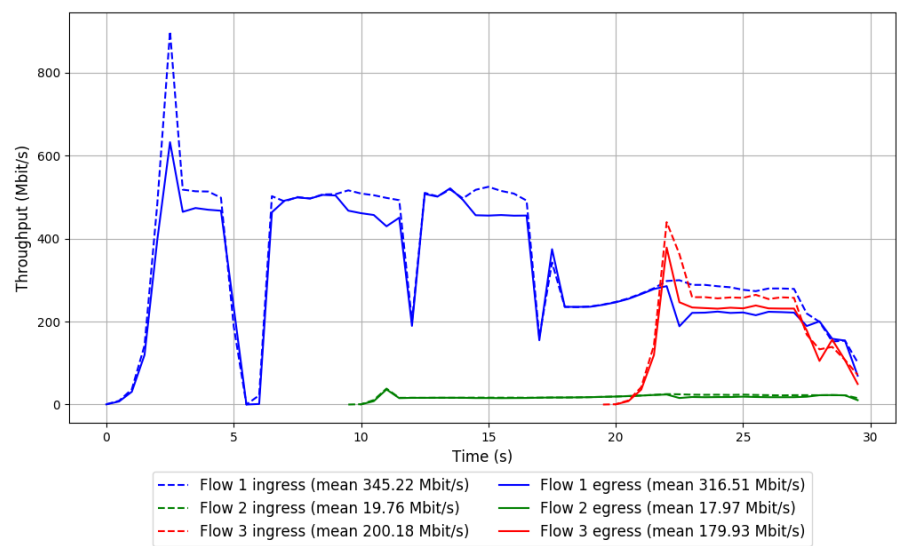


Run 7: Statistics of PCC

Start at: 2017-12-11 22:14:04
End at: 2017-12-11 22:14:34
Local clock offset: -0.147 ms
Remote clock offset: 19.083 ms

Below is generated by plot.py at 2017-12-12 02:58:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 387.10 Mbit/s
95th percentile per-packet one-way delay: 62.265 ms
Loss rate: 9.29%
-- Flow 1:
Average throughput: 316.51 Mbit/s
95th percentile per-packet one-way delay: 59.388 ms
Loss rate: 8.82%
-- Flow 2:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 62.308 ms
Loss rate: 9.80%
-- Flow 3:
Average throughput: 179.93 Mbit/s
95th percentile per-packet one-way delay: 60.672 ms
Loss rate: 11.63%

Run 7: Report of PCC — Data Link

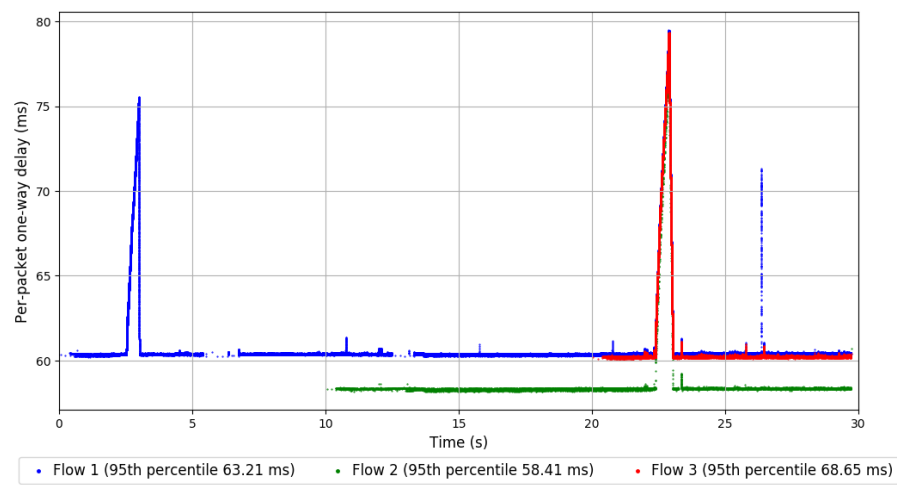
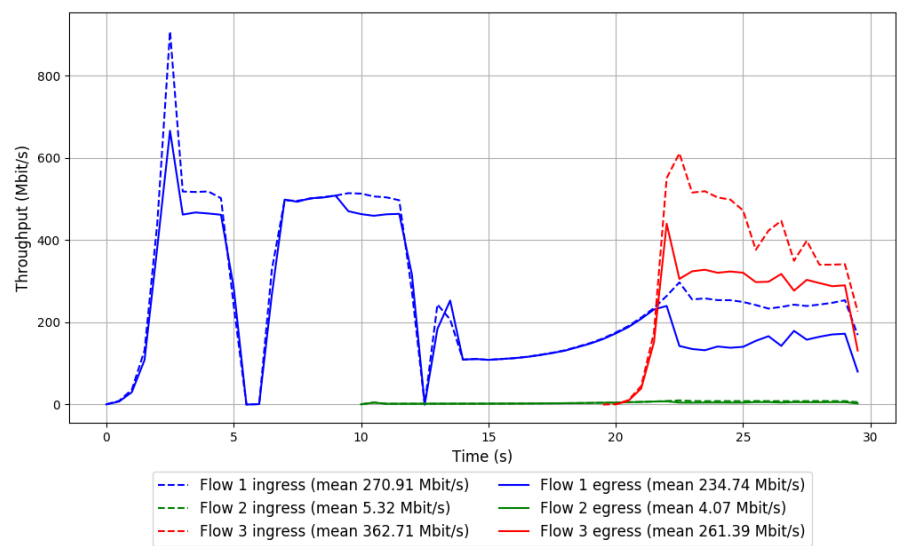


Run 8: Statistics of PCC

Start at: 2017-12-11 22:33:58
End at: 2017-12-11 22:34:28
Local clock offset: -0.193 ms
Remote clock offset: 20.607 ms

Below is generated by plot.py at 2017-12-12 02:58:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.68 Mbit/s
95th percentile per-packet one-way delay: 64.395 ms
Loss rate: 18.58%
-- Flow 1:
Average throughput: 234.74 Mbit/s
95th percentile per-packet one-way delay: 63.211 ms
Loss rate: 13.84%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 58.405 ms
Loss rate: 24.16%
-- Flow 3:
Average throughput: 261.39 Mbit/s
95th percentile per-packet one-way delay: 68.653 ms
Loss rate: 29.16%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 22:53:58

End at: 2017-12-11 22:54:28

Local clock offset: -0.262 ms

Remote clock offset: 5.399 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.95 Mbit/s

95th percentile per-packet one-way delay: 77.477 ms

Loss rate: 12.29%

-- Flow 1:

Average throughput: 314.52 Mbit/s

95th percentile per-packet one-way delay: 77.479 ms

Loss rate: 12.09%

-- Flow 2:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 77.472 ms

Loss rate: 12.95%

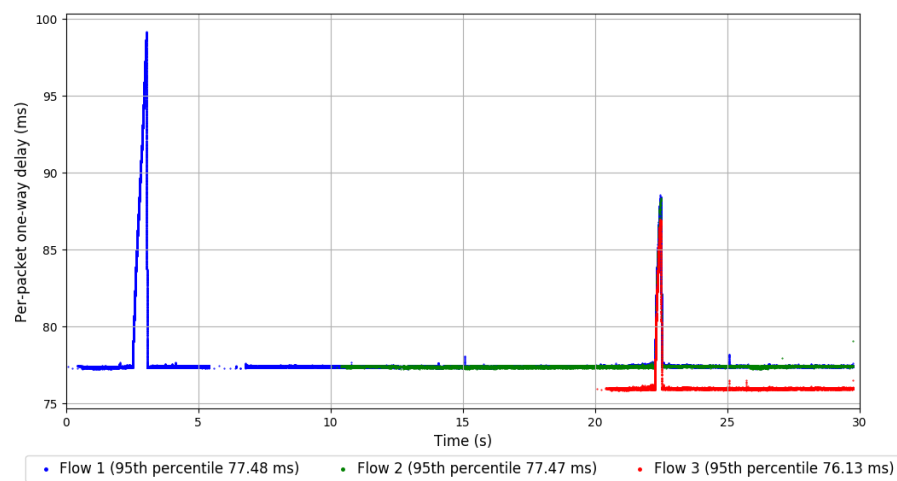
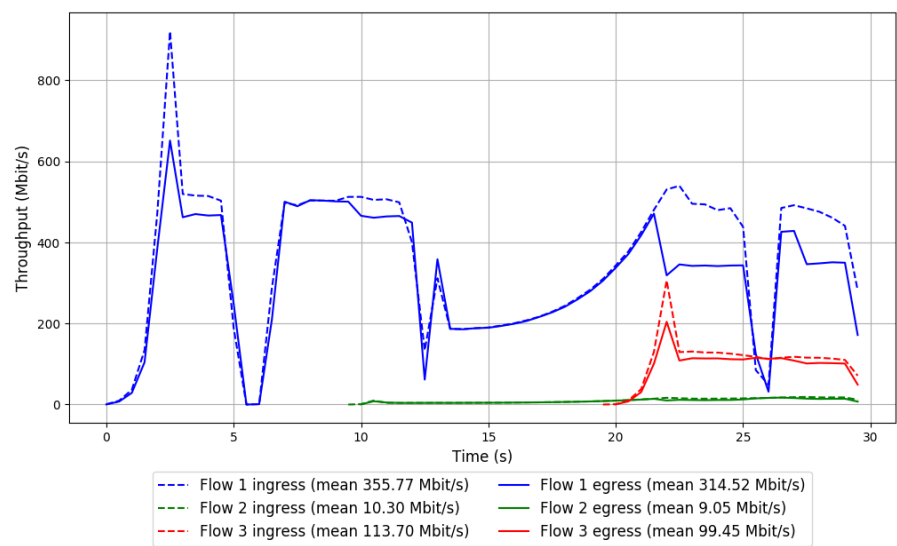
-- Flow 3:

Average throughput: 99.45 Mbit/s

95th percentile per-packet one-way delay: 76.132 ms

Loss rate: 14.01%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 23:14:03

End at: 2017-12-11 23:14:33

Local clock offset: -0.486 ms

Remote clock offset: 5.408 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.04 Mbit/s

95th percentile per-packet one-way delay: 78.516 ms

Loss rate: 11.64%

-- Flow 1:

Average throughput: 349.11 Mbit/s

95th percentile per-packet one-way delay: 77.127 ms

Loss rate: 9.17%

-- Flow 2:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 78.372 ms

Loss rate: 19.94%

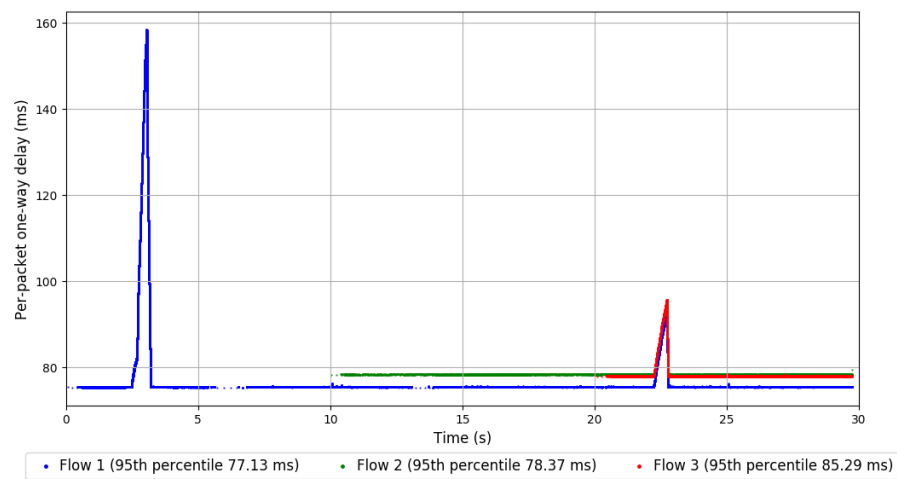
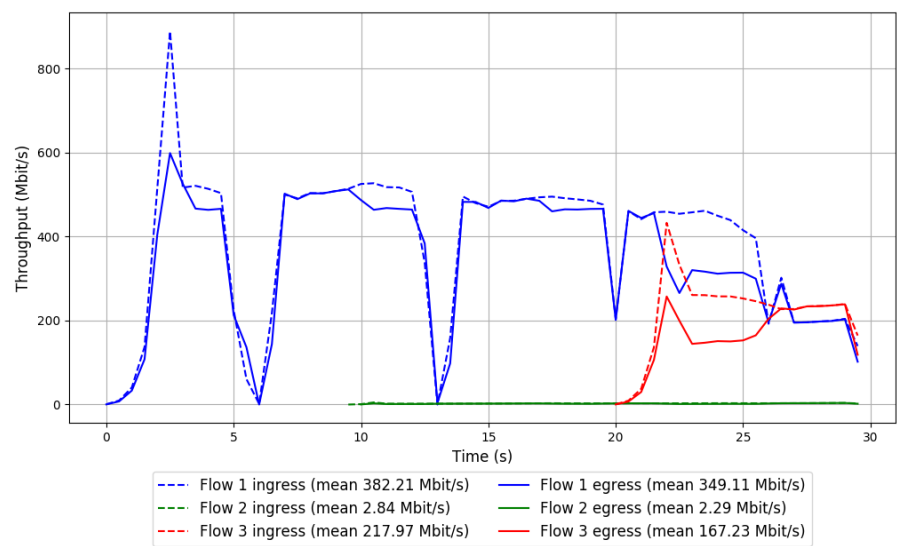
-- Flow 3:

Average throughput: 167.23 Mbit/s

95th percentile per-packet one-way delay: 85.289 ms

Loss rate: 24.59%

Run 10: Report of PCC — Data Link

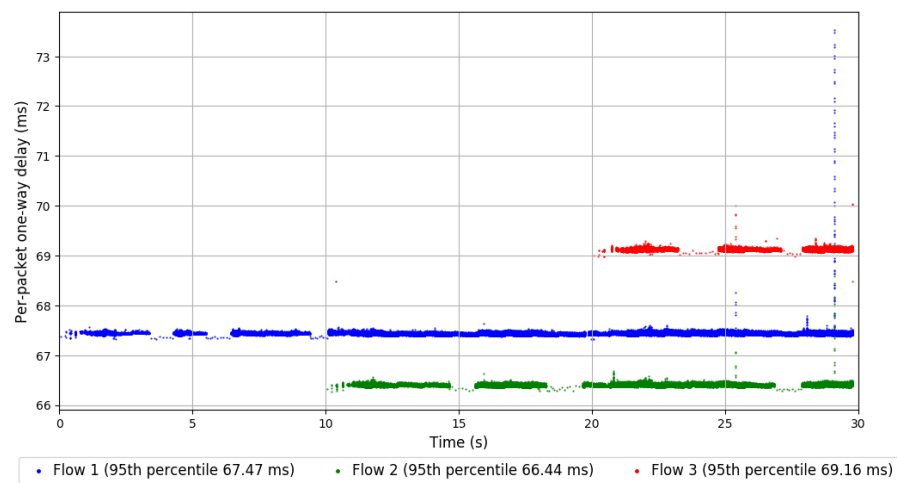
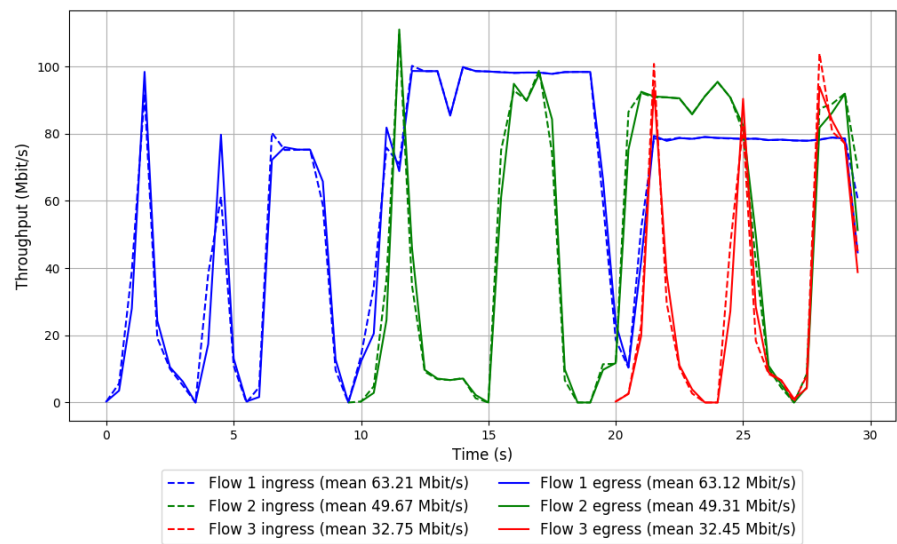


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 20:08:23
End at: 2017-12-11 20:08:53
Local clock offset: -0.012 ms
Remote clock offset: 14.693 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.43 Mbit/s
95th percentile per-packet one-way delay: 69.123 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 67.472 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 49.31 Mbit/s
95th percentile per-packet one-way delay: 66.445 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 69.163 ms
Loss rate: 2.62%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 20:28:31

End at: 2017-12-11 20:29:01

Local clock offset: 0.052 ms

Remote clock offset: 8.712 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 73.727 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 64.46 Mbit/s

95th percentile per-packet one-way delay: 70.637 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 73.740 ms

Loss rate: 1.38%

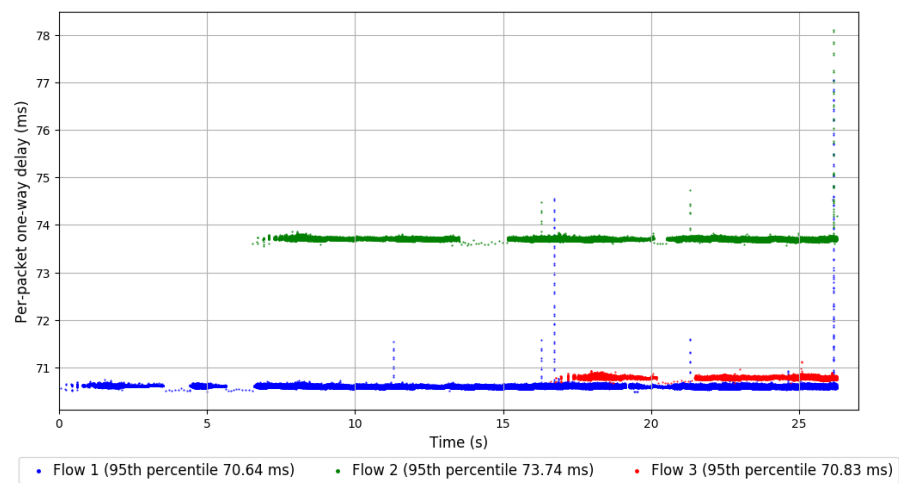
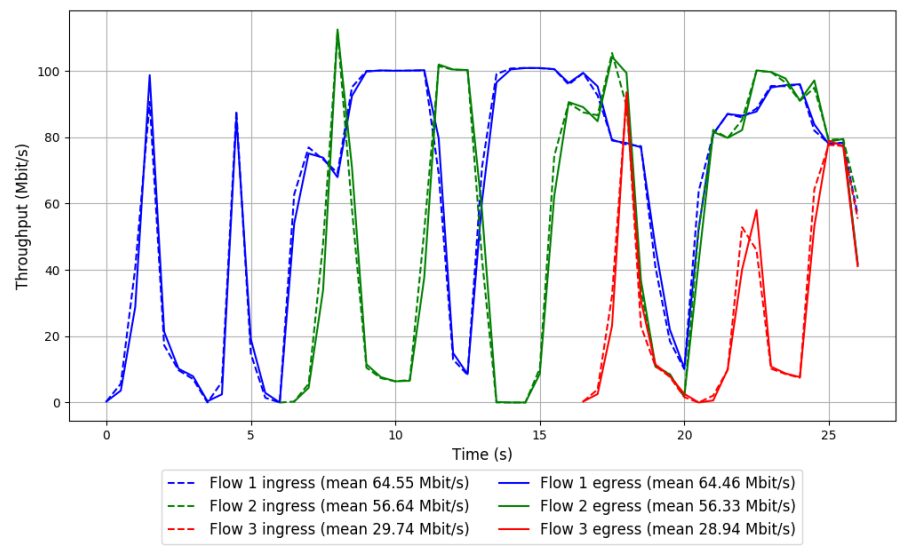
-- Flow 3:

Average throughput: 28.94 Mbit/s

95th percentile per-packet one-way delay: 70.833 ms

Loss rate: 4.33%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 20:49:04

End at: 2017-12-11 20:49:34

Local clock offset: -0.003 ms

Remote clock offset: 9.388 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 70.638 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 64.50 Mbit/s

95th percentile per-packet one-way delay: 70.644 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 54.26 Mbit/s

95th percentile per-packet one-way delay: 69.620 ms

Loss rate: 1.54%

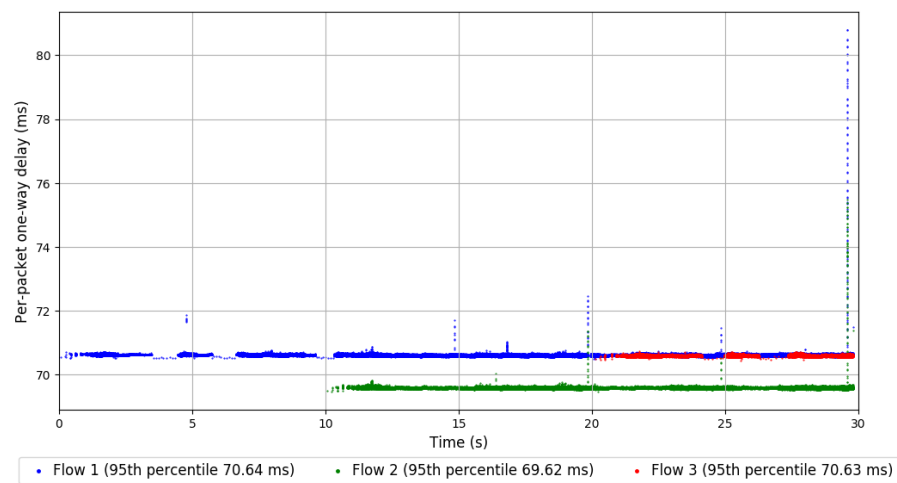
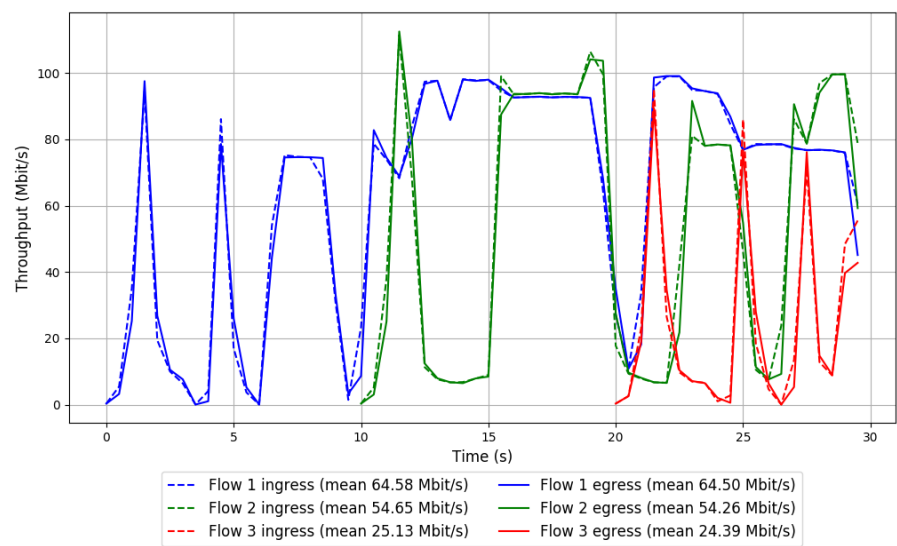
-- Flow 3:

Average throughput: 24.39 Mbit/s

95th percentile per-packet one-way delay: 70.632 ms

Loss rate: 4.59%

Run 3: Report of QUIC Cubic — Data Link

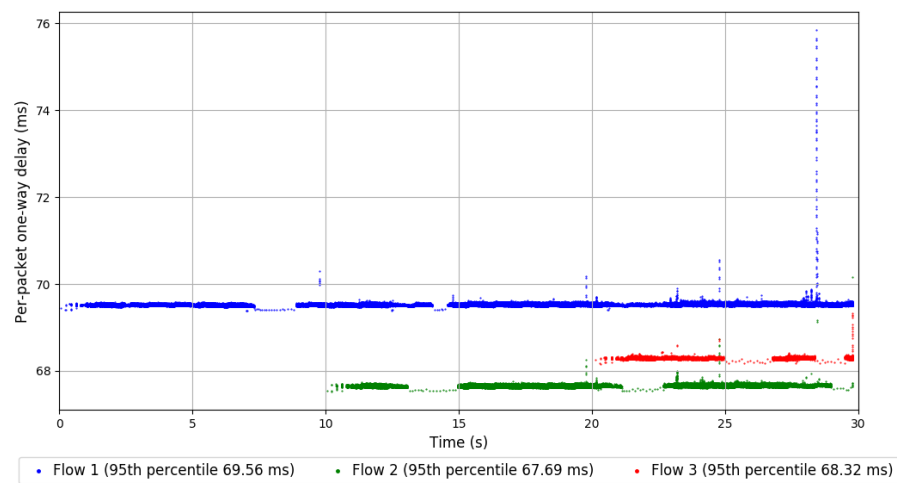
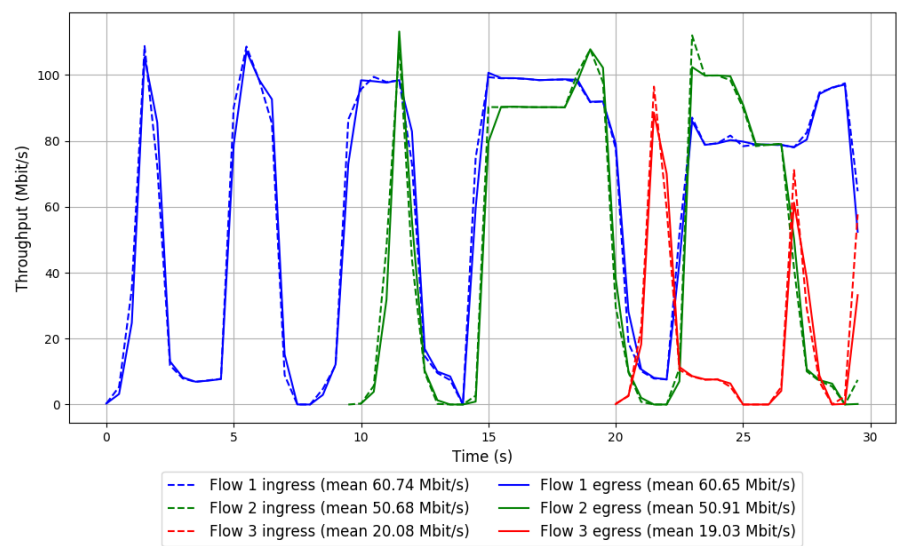


Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 21:09:19
End at: 2017-12-11 21:09:49
Local clock offset: -0.079 ms
Remote clock offset: 11.074 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.61 Mbit/s
95th percentile per-packet one-way delay: 69.553 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: 69.559 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 67.690 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 68.319 ms
Loss rate: 6.80%

Run 4: Report of QUIC Cubic — Data Link

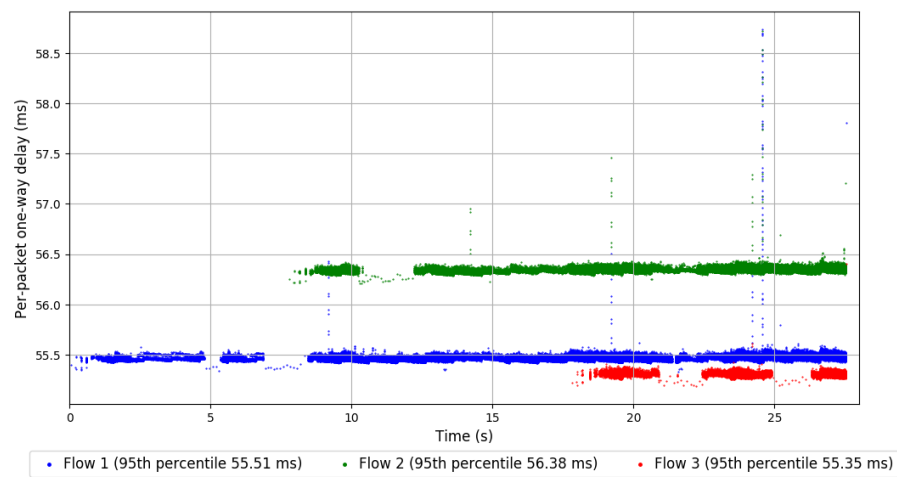
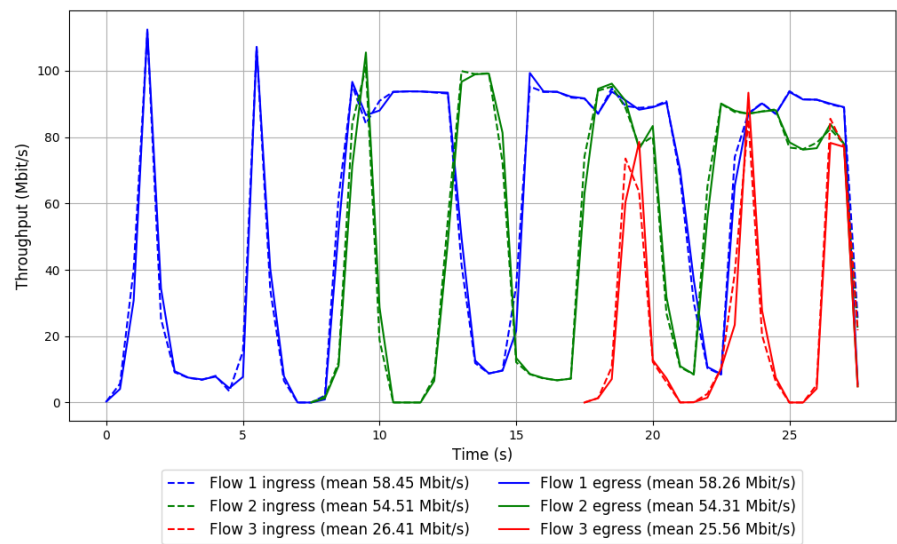


Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 21:29:24
End at: 2017-12-11 21:29:54
Local clock offset: -0.171 ms
Remote clock offset: 22.379 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.26 Mbit/s
95th percentile per-packet one-way delay: 56.368 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 58.26 Mbit/s
95th percentile per-packet one-way delay: 55.507 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 54.31 Mbit/s
95th percentile per-packet one-way delay: 56.382 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 25.56 Mbit/s
95th percentile per-packet one-way delay: 55.346 ms
Loss rate: 4.87%

Run 5: Report of QUIC Cubic — Data Link

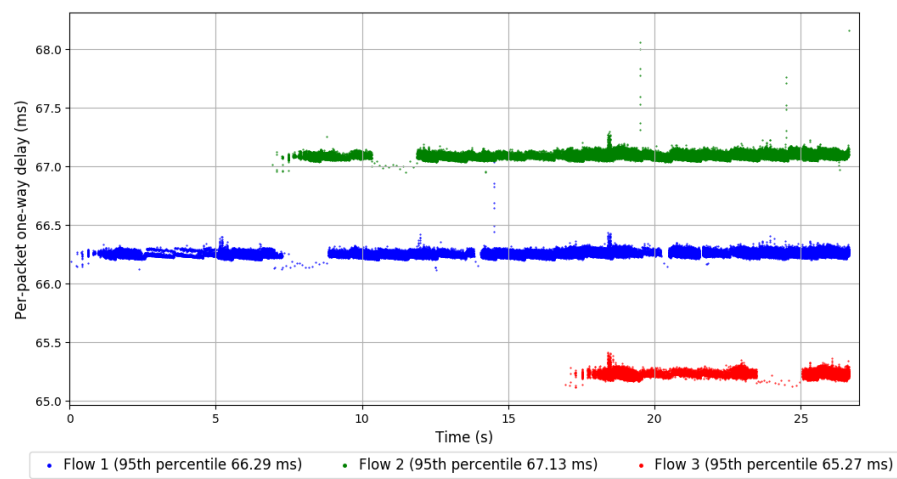
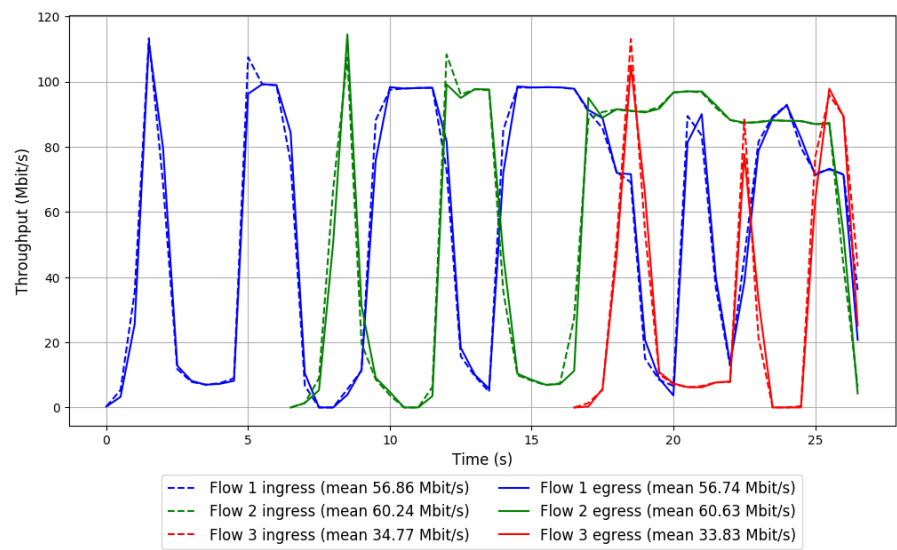


Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 21:49:35
End at: 2017-12-11 21:50:05
Local clock offset: -0.199 ms
Remote clock offset: 13.538 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 114.08 Mbit/s
95th percentile per-packet one-way delay: 67.116 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 66.290 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 67.129 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 65.270 ms
Loss rate: 4.35%

Run 6: Report of QUIC Cubic — Data Link

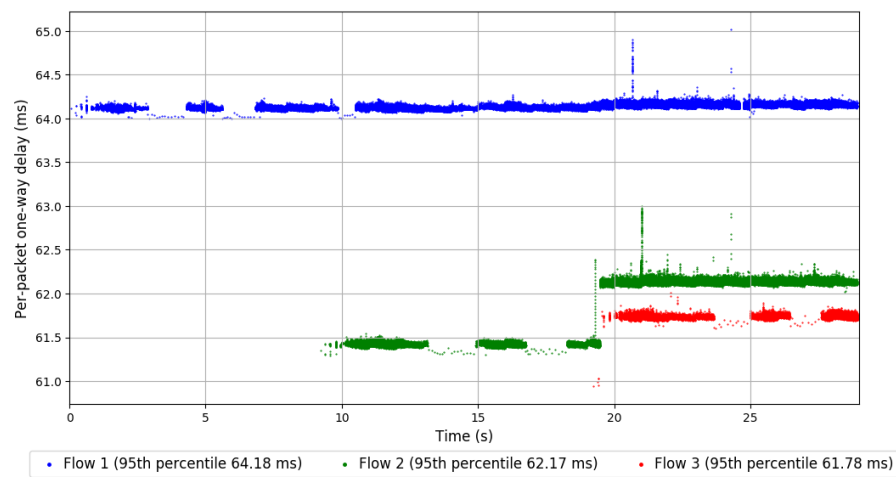
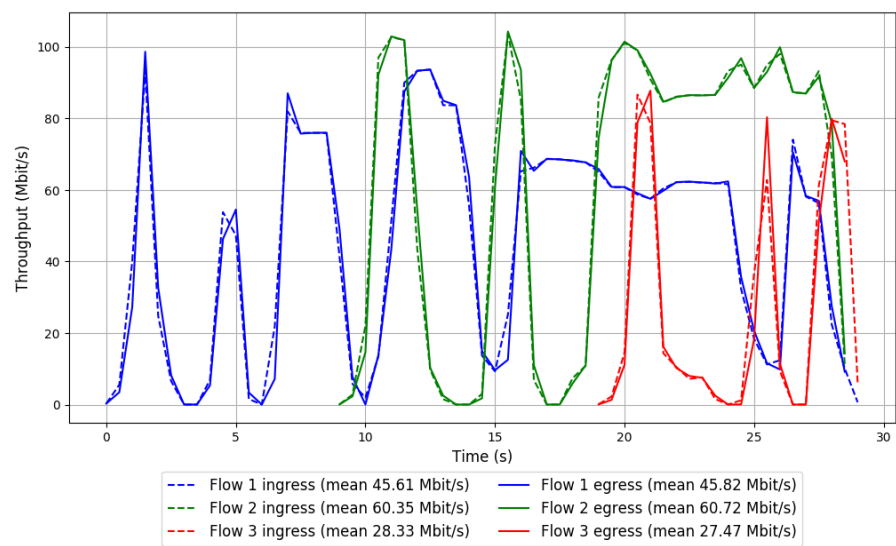


Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 22:09:48
End at: 2017-12-11 22:10:18
Local clock offset: -0.118 ms
Remote clock offset: 17.064 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 45.82 Mbit/s
95th percentile per-packet one-way delay: 64.182 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 60.72 Mbit/s
95th percentile per-packet one-way delay: 62.168 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.47 Mbit/s
95th percentile per-packet one-way delay: 61.781 ms
Loss rate: 4.67%

Run 7: Report of QUIC Cubic — Data Link

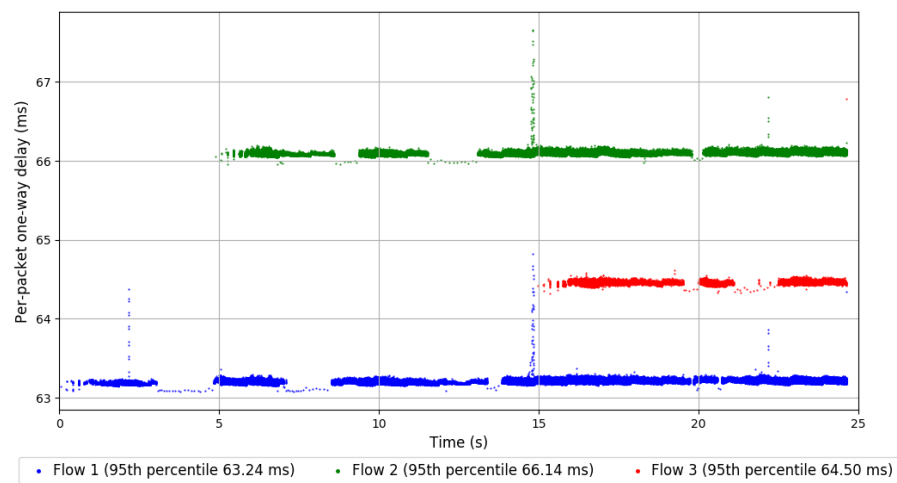
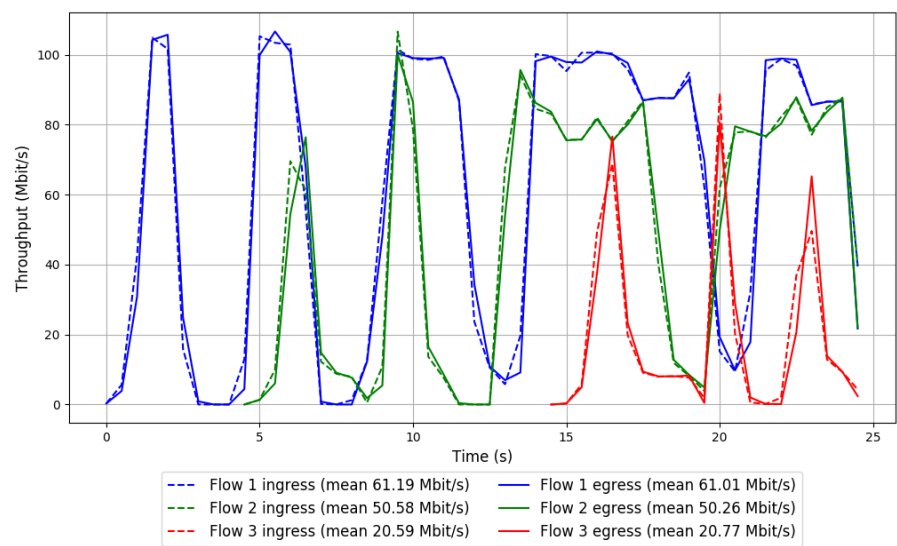


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 22:29:48
End at: 2017-12-11 22:30:18
Local clock offset: -0.25 ms
Remote clock offset: 15.493 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.51 Mbit/s
95th percentile per-packet one-way delay: 66.124 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 63.242 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 66.137 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 64.495 ms
Loss rate: 0.80%

Run 8: Report of QUIC Cubic — Data Link

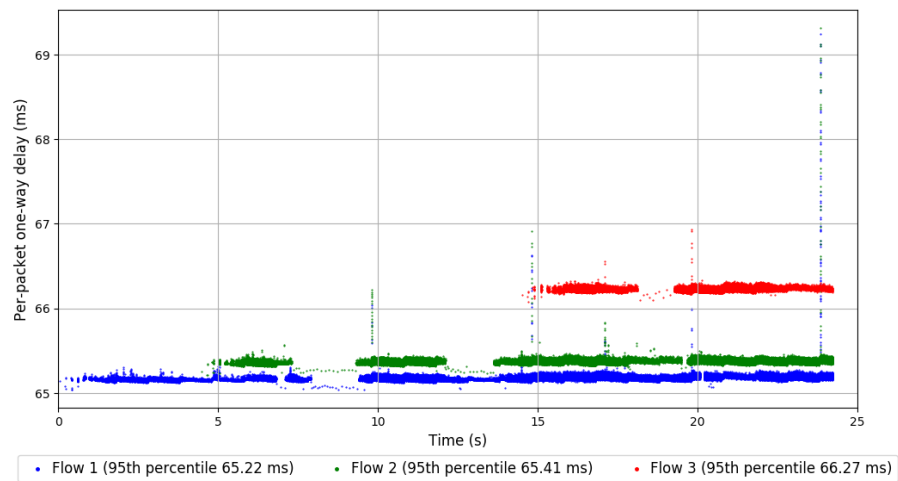
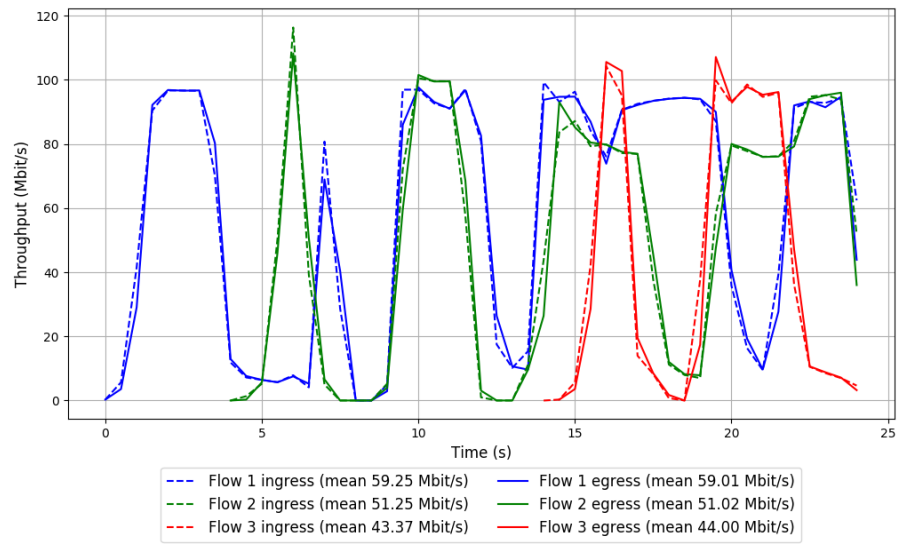


Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 22:49:48
End at: 2017-12-11 22:50:18
Local clock offset: -0.238 ms
Remote clock offset: 16.194 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.35 Mbit/s
95th percentile per-packet one-way delay: 66.240 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 65.215 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 51.02 Mbit/s
95th percentile per-packet one-way delay: 65.411 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 66.267 ms
Loss rate: 0.27%

Run 9: Report of QUIC Cubic — Data Link

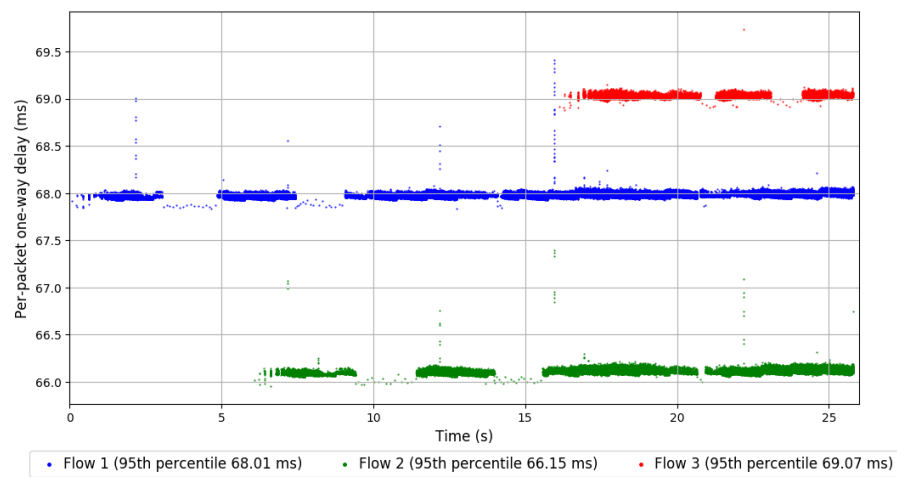
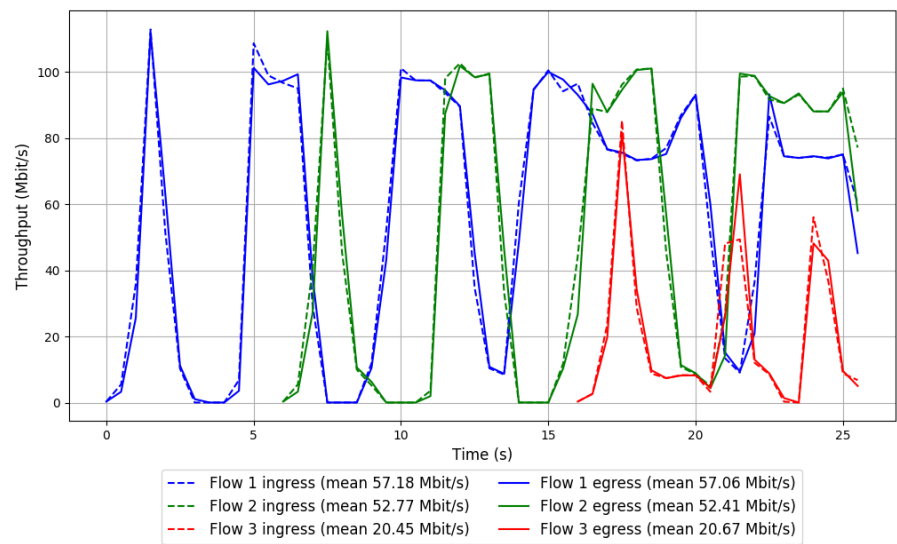


Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 23:09:49
End at: 2017-12-11 23:10:19
Local clock offset: -0.278 ms
Remote clock offset: 14.491 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.01 Mbit/s
95th percentile per-packet one-way delay: 69.021 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 68.014 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 66.152 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 20.67 Mbit/s
95th percentile per-packet one-way delay: 69.069 ms
Loss rate: 0.68%

Run 10: Report of QUIC Cubic — Data Link

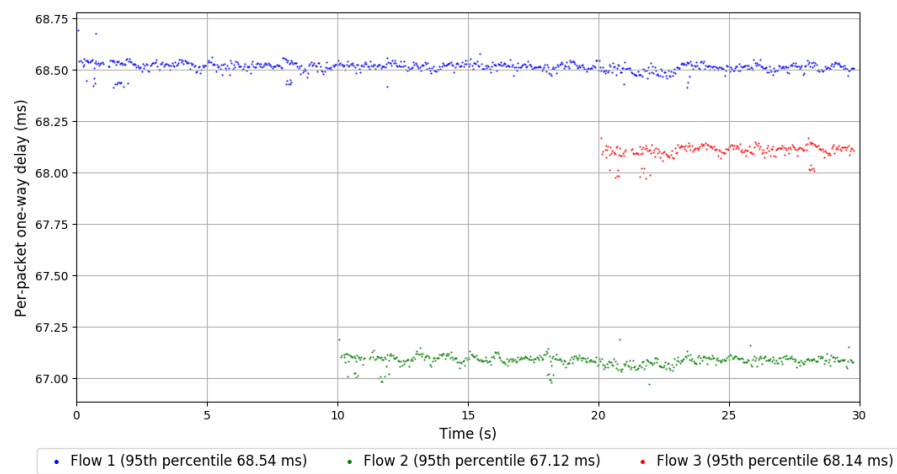
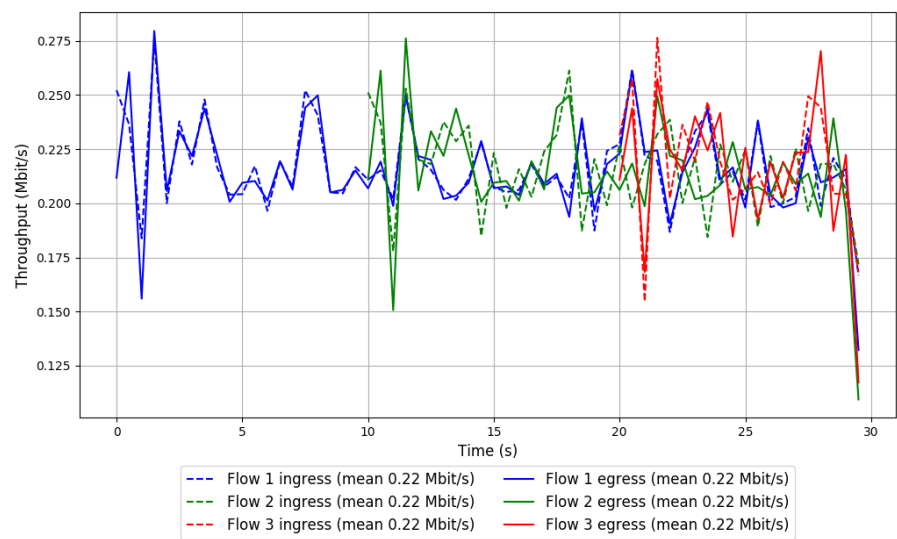


```
Run 1: Statistics of SReAM

Start at: 2017-12-11 20:02:22
End at: 2017-12-11 20:02:52
Local clock offset: -0.008 ms
Remote clock offset: 15.385 ms

# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 68.538 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.544 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.118 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.139 ms
Loss rate: 1.53%
```

Run 1: Report of SReAM — Data Link

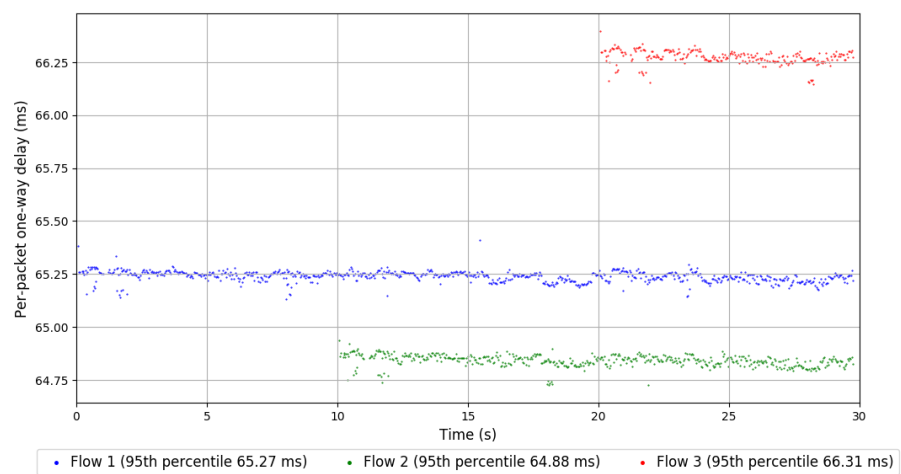
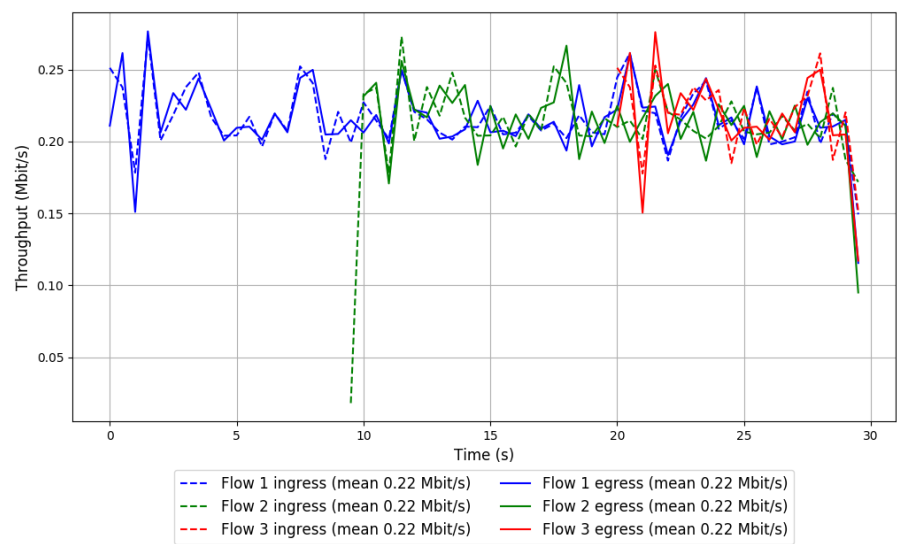


```
Run 2: Statistics of SReAM

Start at: 2017-12-11 20:22:39
End at: 2017-12-11 20:23:09
Local clock offset: 0.01 ms
Remote clock offset: 16.466 ms

# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 66.290 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.271 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.877 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.315 ms
Loss rate: 1.53%
```

Run 2: Report of SReAM — Data Link

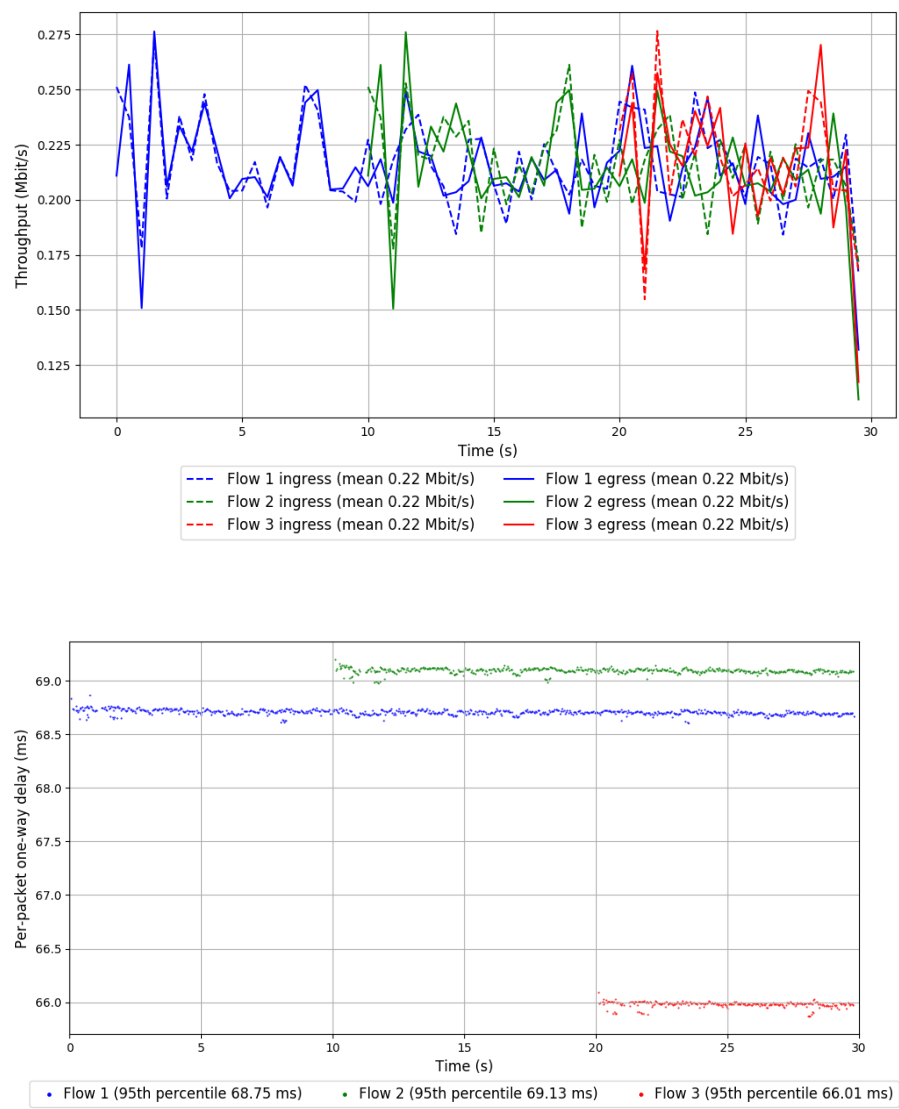


Run 3: Statistics of SReAM

Start at: 2017-12-11 20:42:56
End at: 2017-12-11 20:43:26
Local clock offset: 0.034 ms
Remote clock offset: 12.382 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 69.117 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.745 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.126 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.007 ms
Loss rate: 1.53%

Run 3: Report of SReAM — Data Link

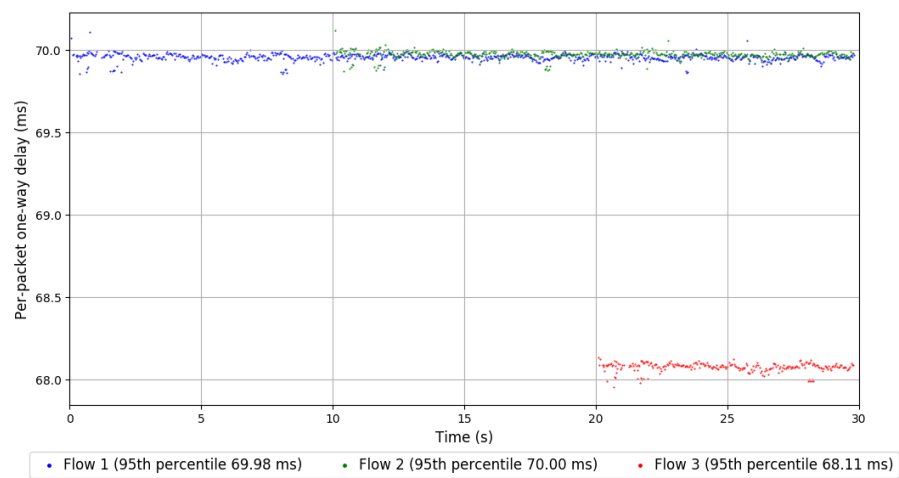
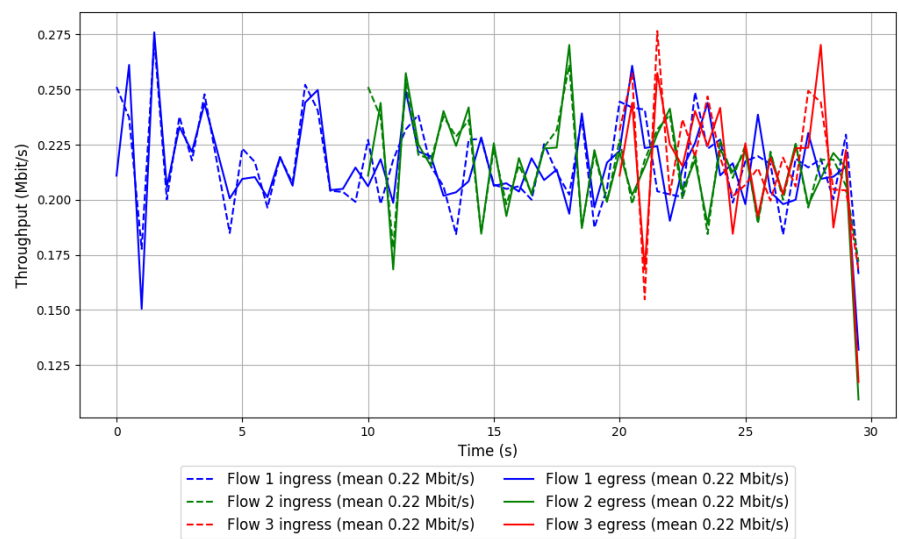


Run 4: Statistics of SReAM

Start at: 2017-12-11 21:03:25
End at: 2017-12-11 21:03:55
Local clock offset: -0.116 ms
Remote clock offset: 9.717 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 69.995 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.984 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.004 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.112 ms
Loss rate: 1.53%

Run 4: Report of SReAM — Data Link

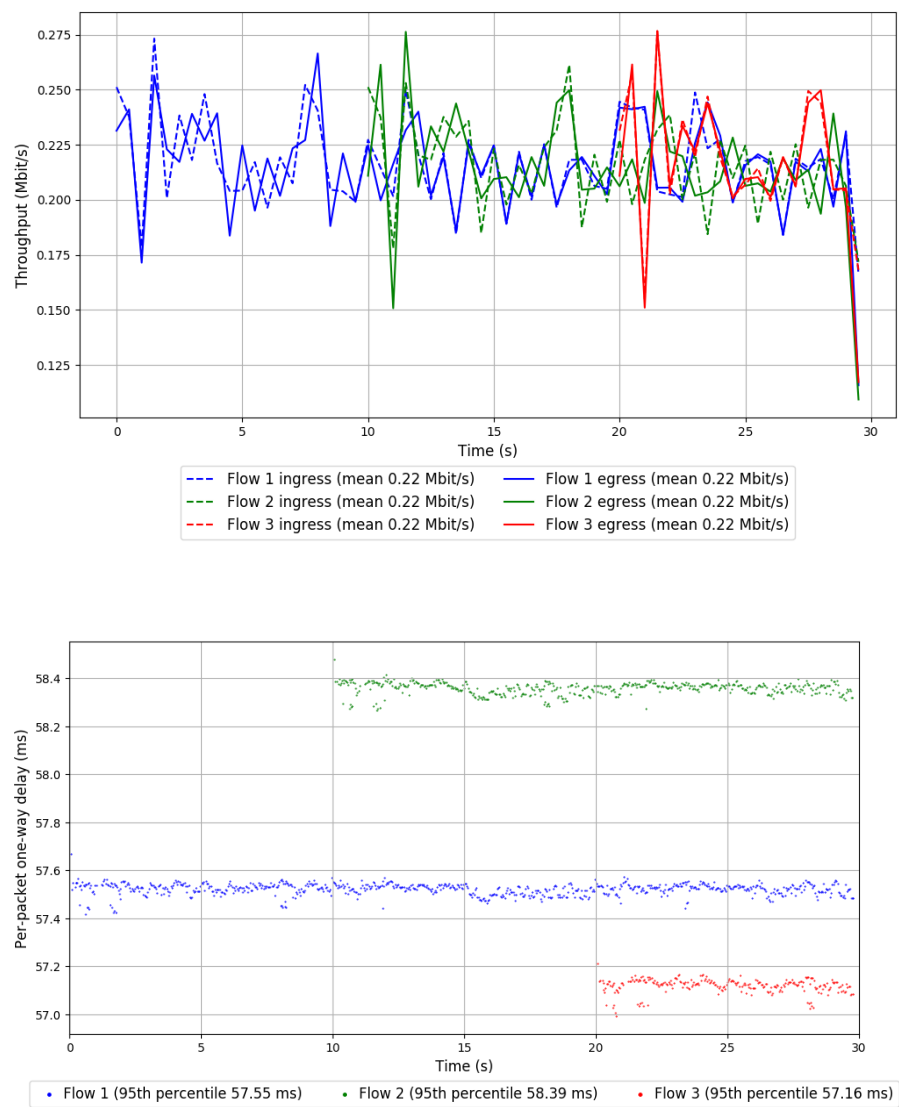


Run 5: Statistics of SReAM

Start at: 2017-12-11 21:23:33
End at: 2017-12-11 21:24:03
Local clock offset: -0.087 ms
Remote clock offset: 20.676 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 58.380 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.552 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.391 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.155 ms
Loss rate: 1.53%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2017-12-11 21:43:44

End at: 2017-12-11 21:44:14

Local clock offset: -0.105 ms

Remote clock offset: 6.496 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 74.474 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 74.480 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.763 ms

Loss rate: 1.05%

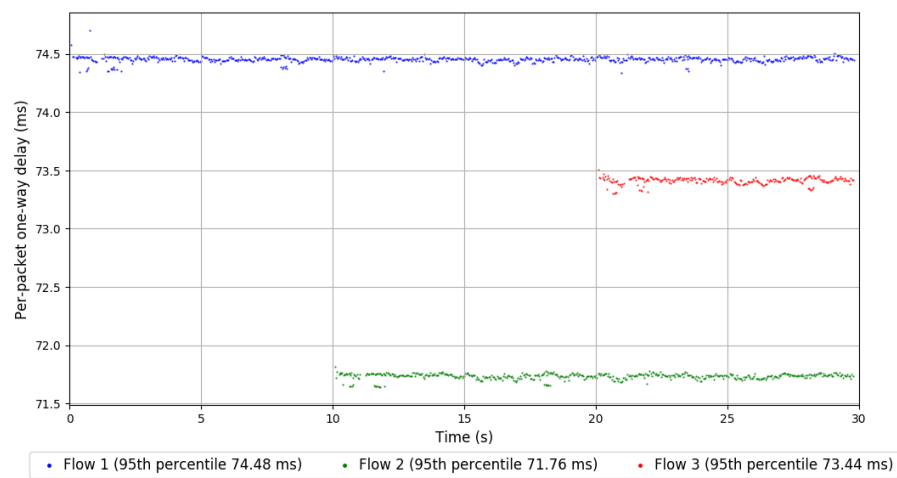
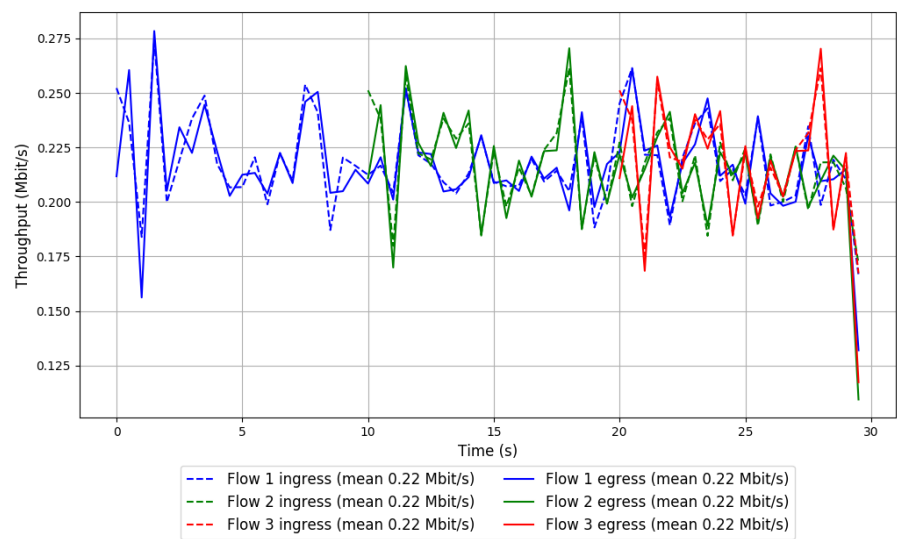
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 73.444 ms

Loss rate: 1.87%

Run 6: Report of SReAM — Data Link

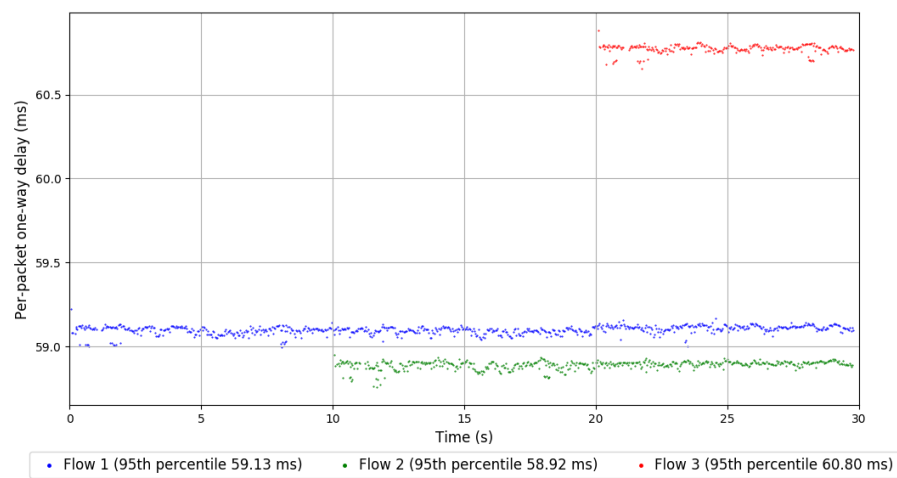
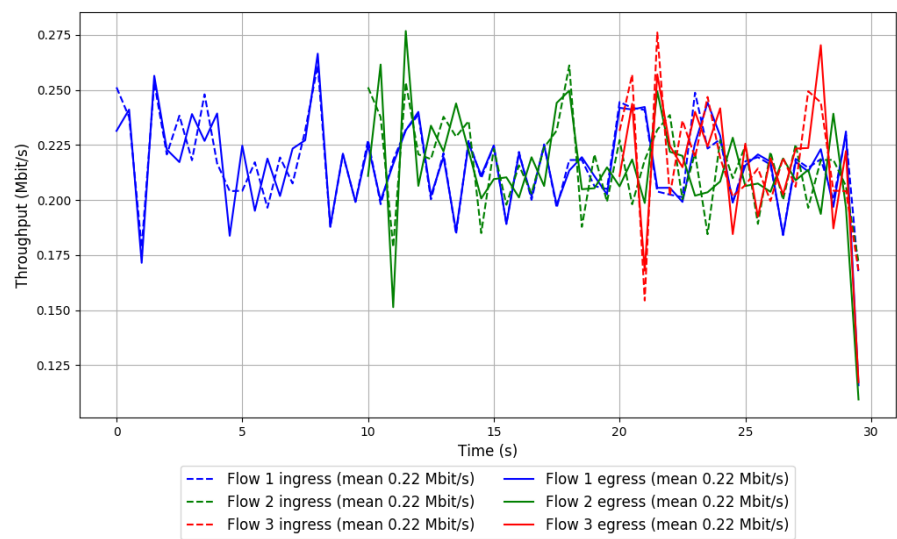


Run 7: Statistics of SReAM

Start at: 2017-12-11 22:03:56
End at: 2017-12-11 22:04:26
Local clock offset: -0.112 ms
Remote clock offset: 19.222 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 60.786 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.128 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.916 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.803 ms
Loss rate: 1.53%

Run 7: Report of SReAM — Data Link

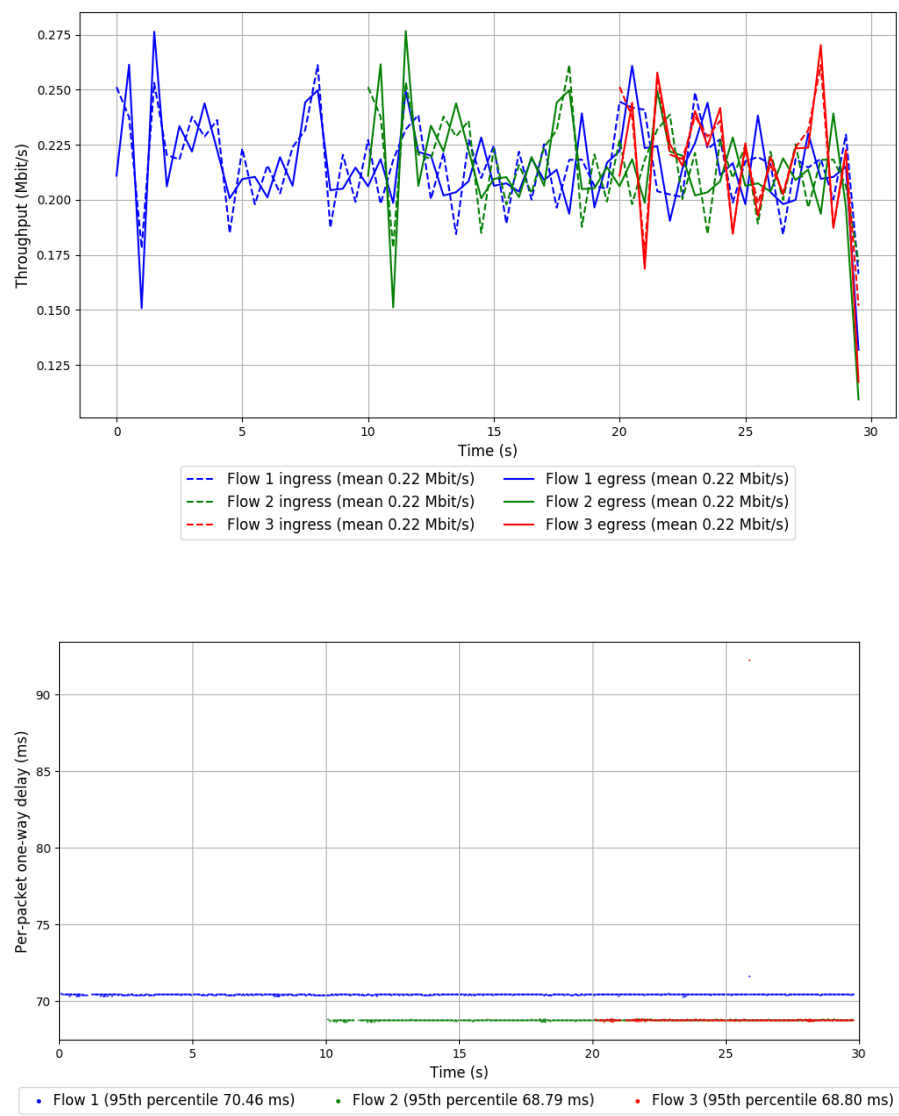


Run 8: Statistics of SReAM

Start at: 2017-12-11 22:23:58
End at: 2017-12-11 22:24:28
Local clock offset: -0.155 ms
Remote clock offset: 10.866 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 70.456 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.460 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.792 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.797 ms
Loss rate: 1.53%

Run 8: Report of SReAM — Data Link

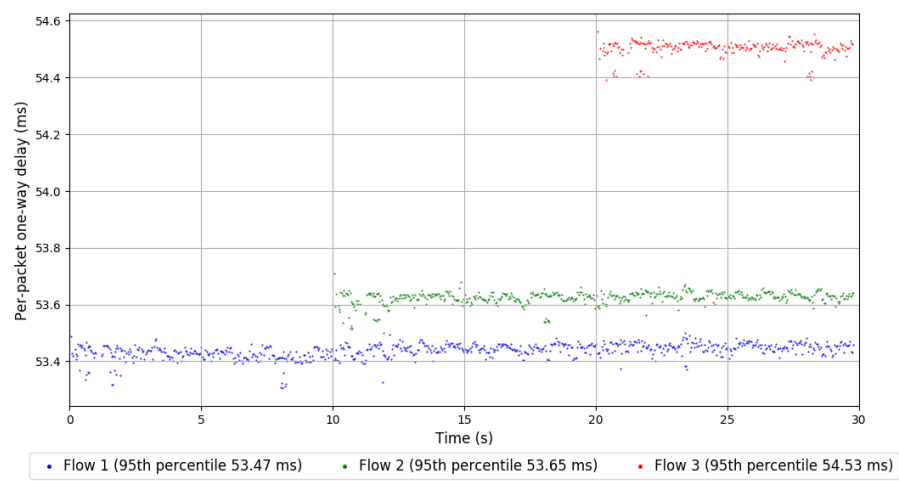
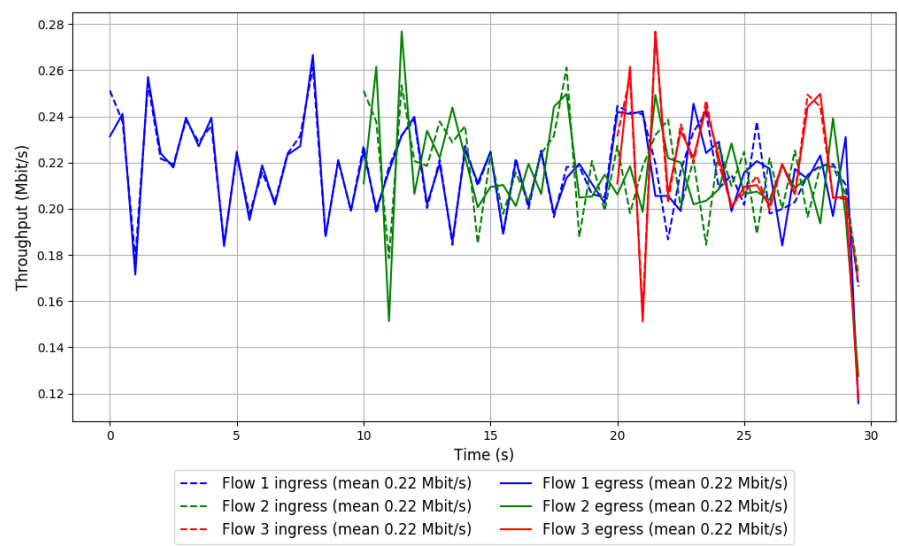


Run 9: Statistics of SReAM

Start at: 2017-12-11 22:43:58
End at: 2017-12-11 22:44:28
Local clock offset: -0.238 ms
Remote clock offset: 25.771 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.517 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.470 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.650 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.529 ms
Loss rate: 1.53%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 23:03:59

End at: 2017-12-11 23:04:29

Local clock offset: -0.267 ms

Remote clock offset: 8.46 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 74.455 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 73.800 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 74.463 ms

Loss rate: 1.05%

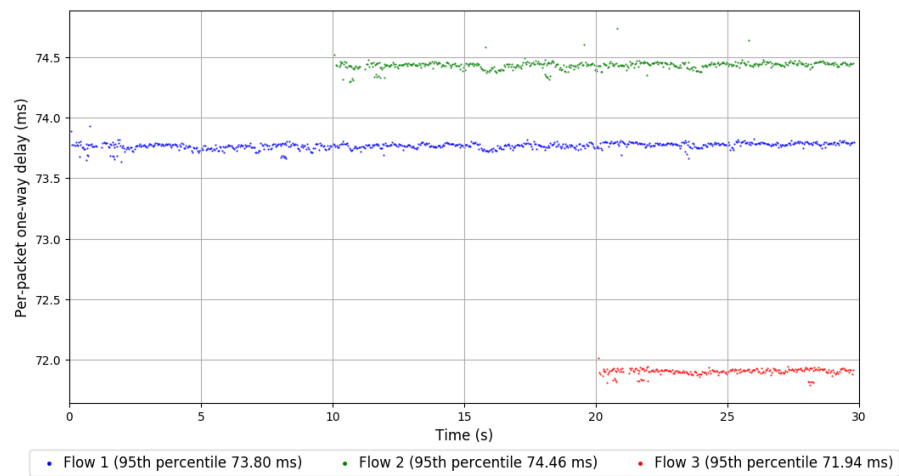
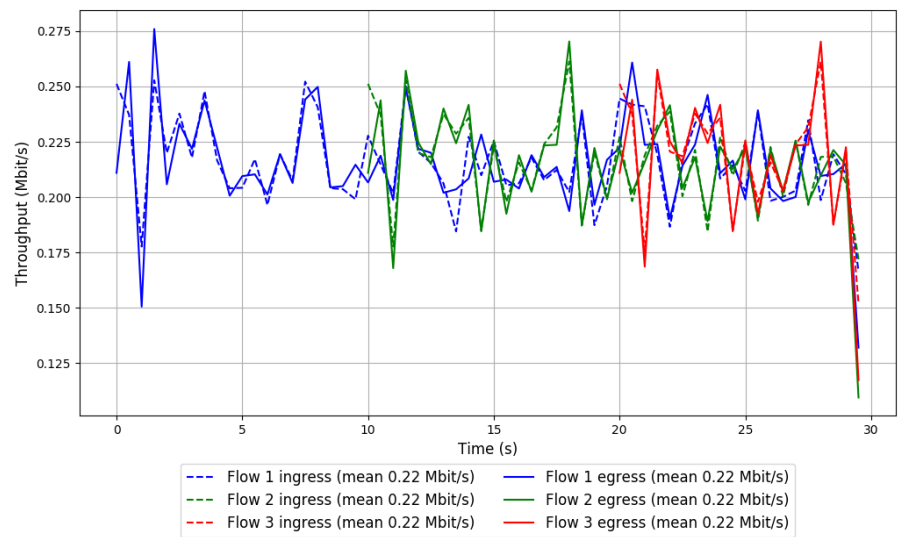
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.936 ms

Loss rate: 1.53%

Run 10: Report of SReAM — Data Link

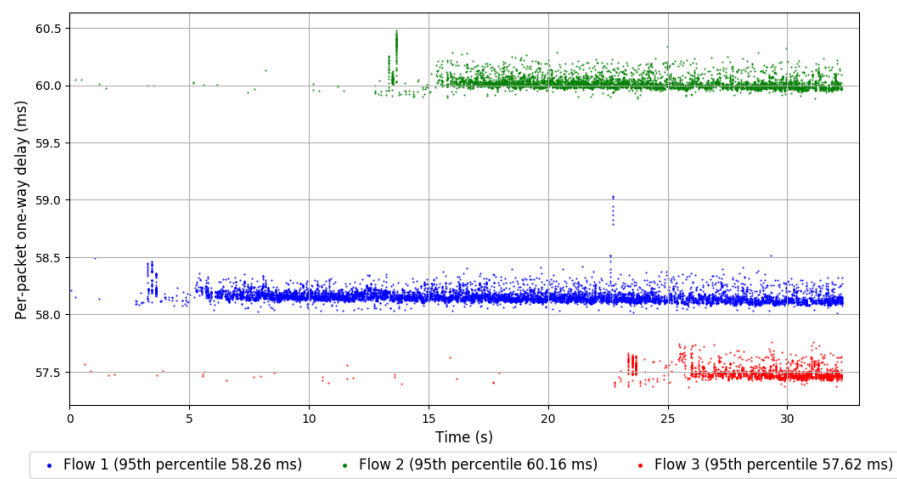
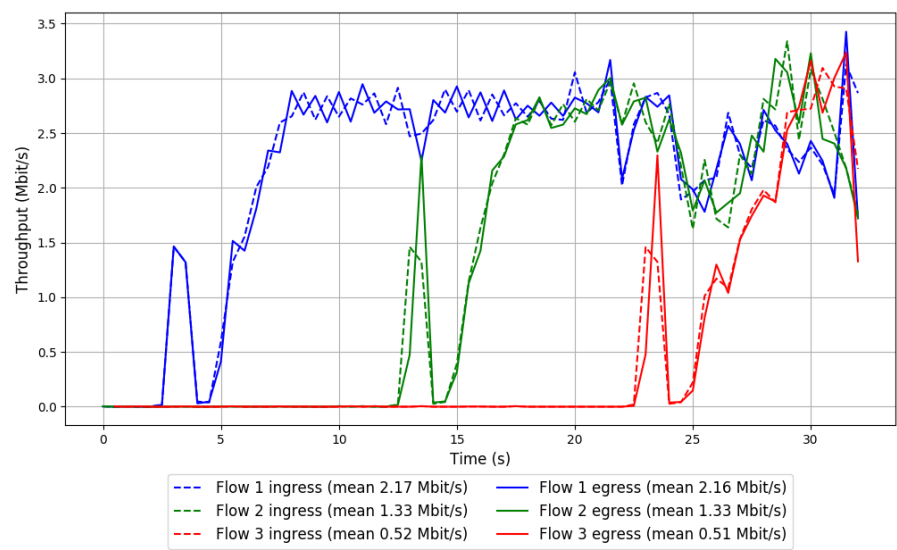


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 20:11:25
End at: 2017-12-11 20:11:55
Local clock offset: 0.024 ms
Remote clock offset: 23.517 ms

# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 60.074 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 58.264 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 60.156 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 57.625 ms
Loss rate: 2.58%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 20:31:39

End at: 2017-12-11 20:32:09

Local clock offset: 0.039 ms

Remote clock offset: 23.94 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 56.715 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 56.709 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 56.721 ms

Loss rate: 0.61%

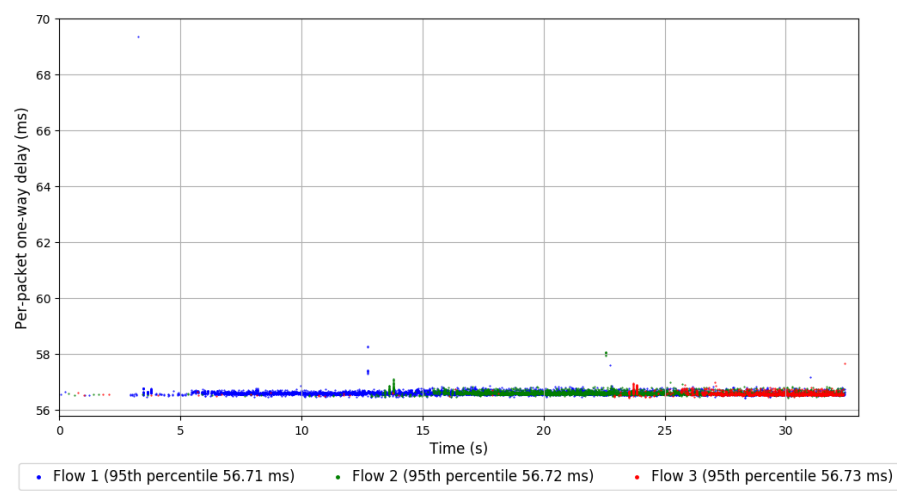
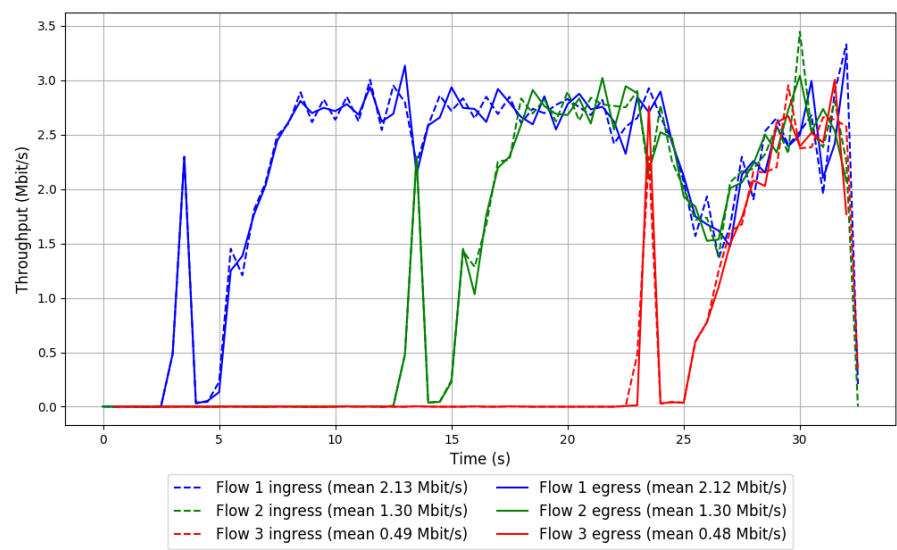
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 56.729 ms

Loss rate: 3.66%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 20:52:13

End at: 2017-12-11 20:52:43

Local clock offset: -0.004 ms

Remote clock offset: 24.41 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 55.503 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 54.892 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 55.554 ms

Loss rate: 0.51%

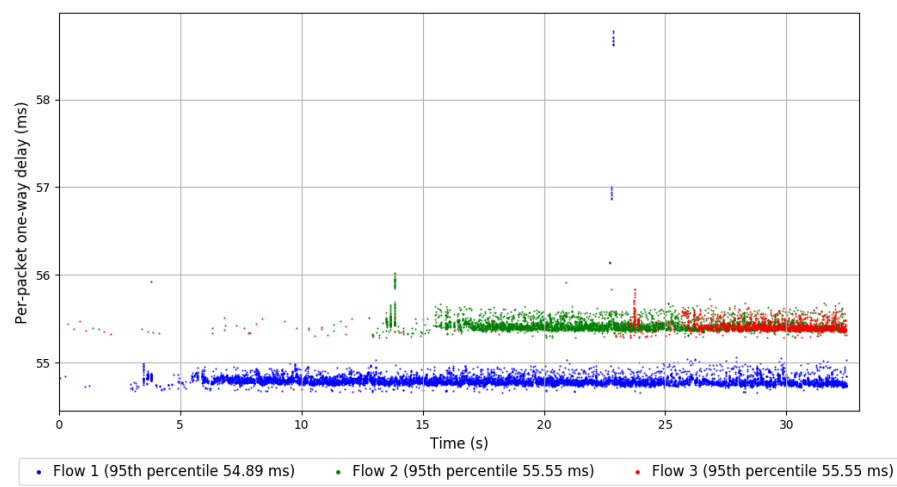
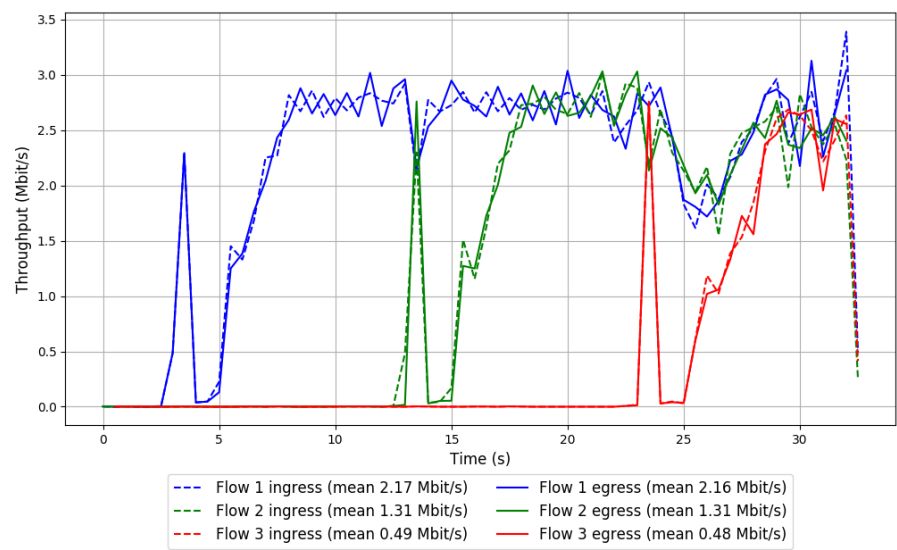
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 55.552 ms

Loss rate: 2.45%

Run 3: Report of WebRTC media — Data Link

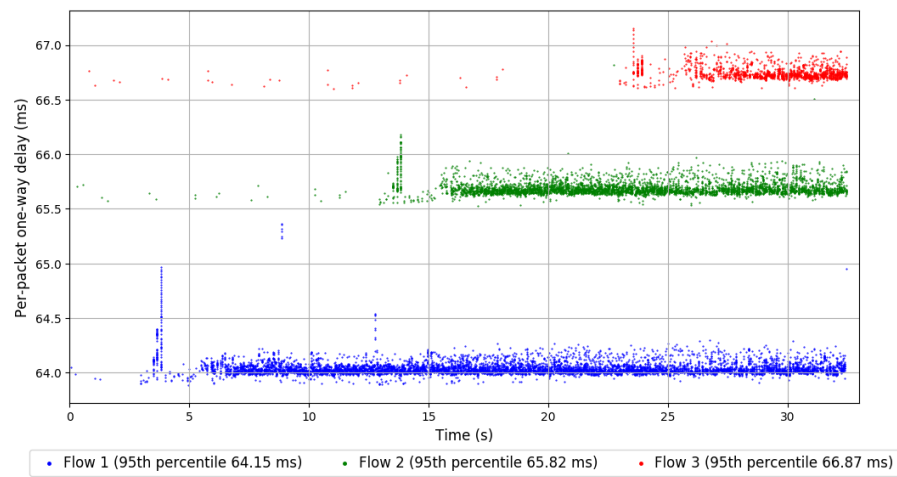
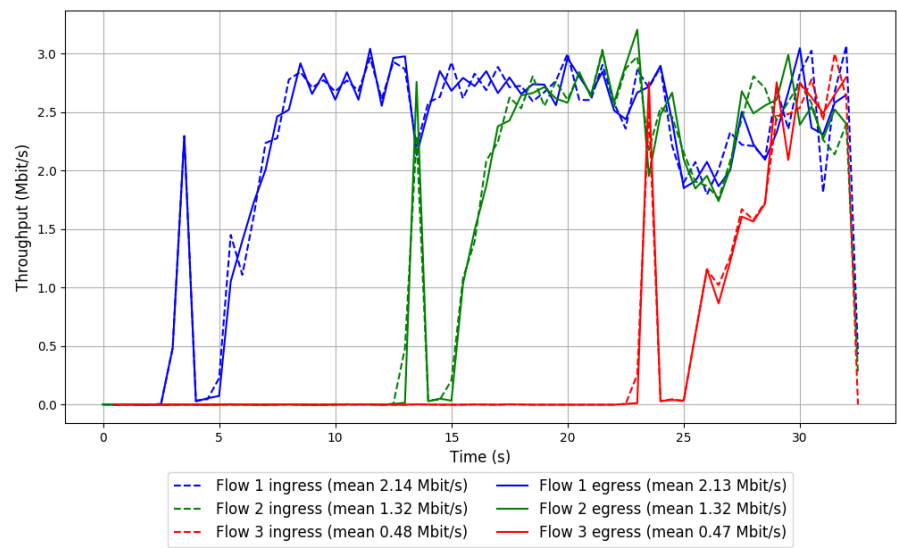


Run 4: Statistics of WebRTC media

Start at: 2017-12-11 21:12:20
End at: 2017-12-11 21:12:50
Local clock offset: -0.069 ms
Remote clock offset: 14.122 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 66.739 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 64.153 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 65.821 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 66.868 ms
Loss rate: 1.47%

Run 4: Report of WebRTC media — Data Link

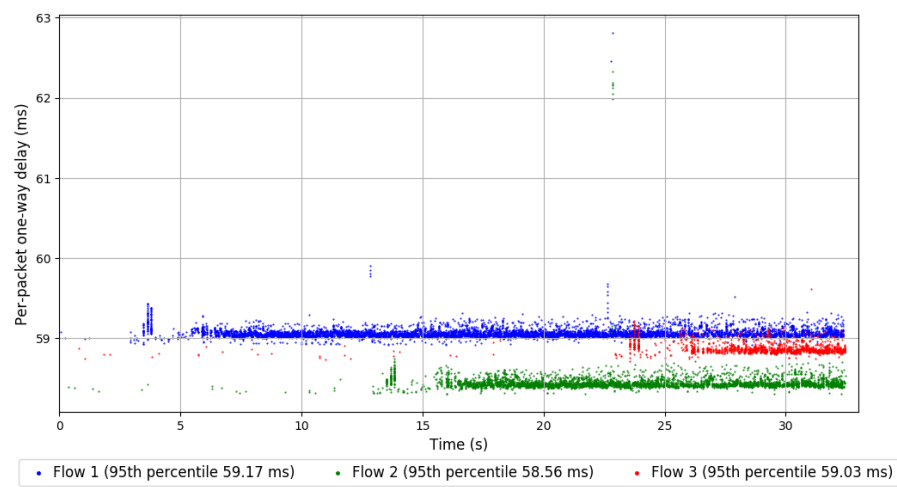
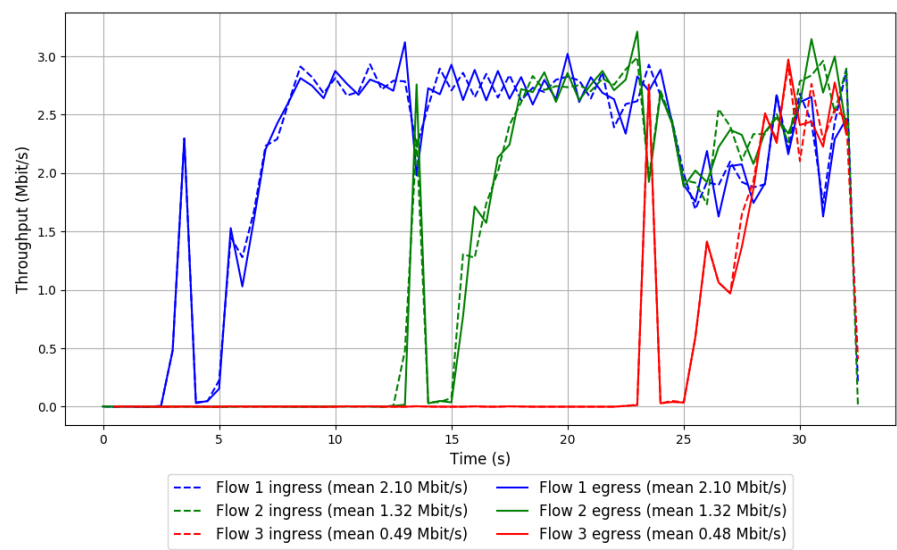


Run 5: Statistics of WebRTC media

Start at: 2017-12-11 21:32:21
End at: 2017-12-11 21:32:51
Local clock offset: -0.077 ms
Remote clock offset: 20.821 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 59.139 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 59.173 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 58.563 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 59.026 ms
Loss rate: 2.26%

Run 5: Report of WebRTC media — Data Link

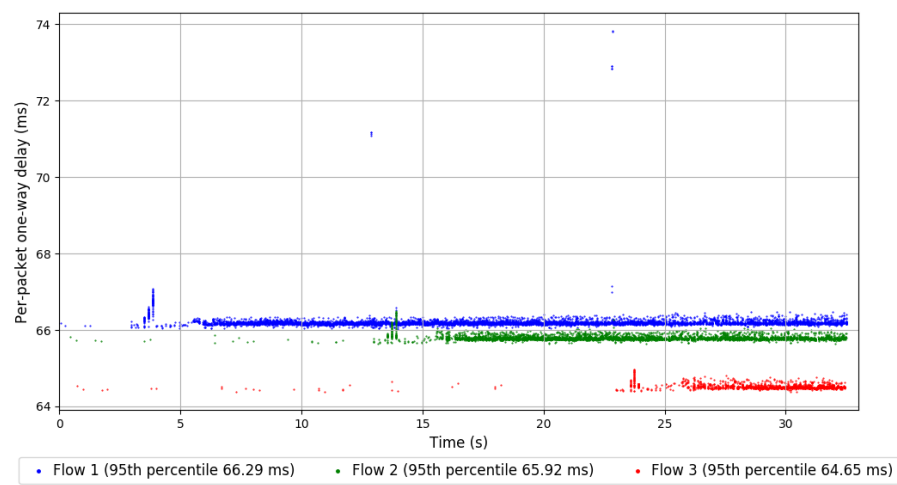
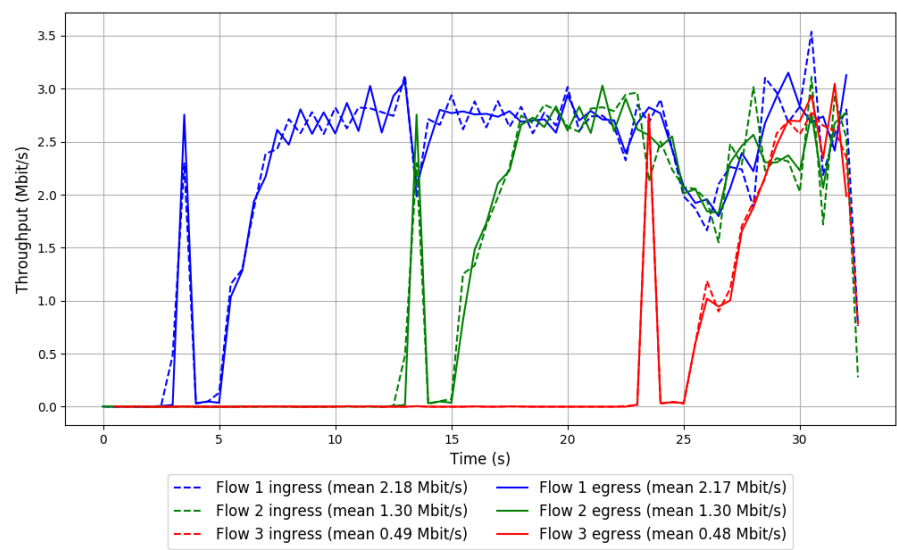


Run 6: Statistics of WebRTC media

Start at: 2017-12-11 21:52:45
End at: 2017-12-11 21:53:15
Local clock offset: -0.108 ms
Remote clock offset: 14.777 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 66.255 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 66.294 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 65.918 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 64.652 ms
Loss rate: 3.63%

Run 6: Report of WebRTC media — Data Link

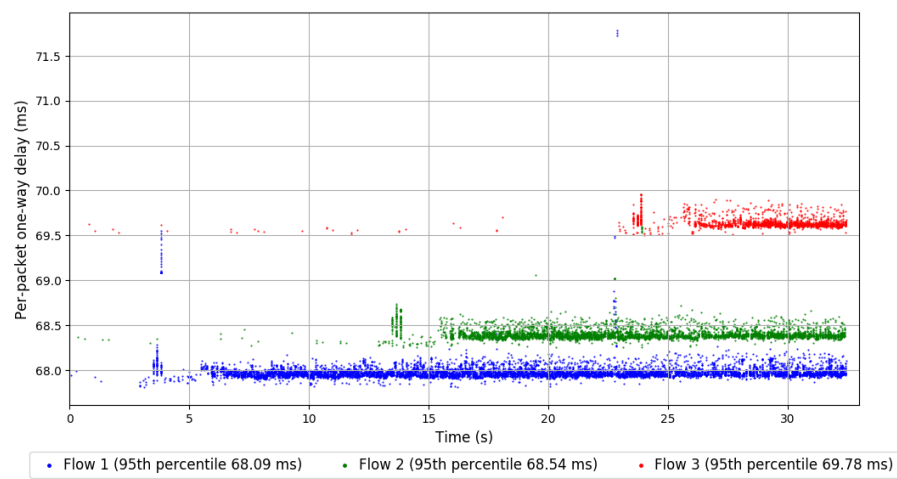
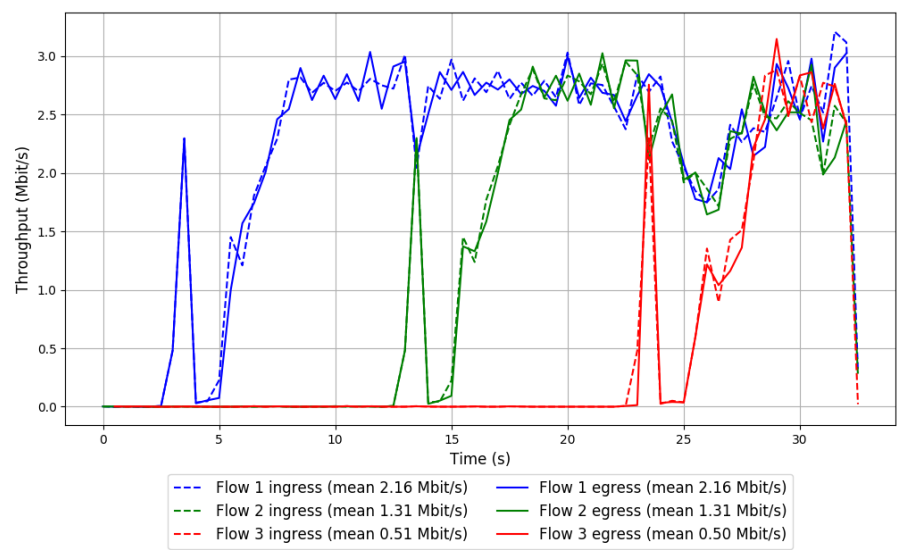


Run 7: Statistics of WebRTC media

Start at: 2017-12-11 22:12:49
End at: 2017-12-11 22:13:19
Local clock offset: -0.1 ms
Remote clock offset: 11.687 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 69.636 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 68.094 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 68.536 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 69.779 ms
Loss rate: 1.26%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 22:32:43

End at: 2017-12-11 22:33:13

Local clock offset: -0.269 ms

Remote clock offset: 9.741 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 71.833 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 71.866 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 1.25 Mbit/s

95th percentile per-packet one-way delay: 70.238 ms

Loss rate: 0.70%

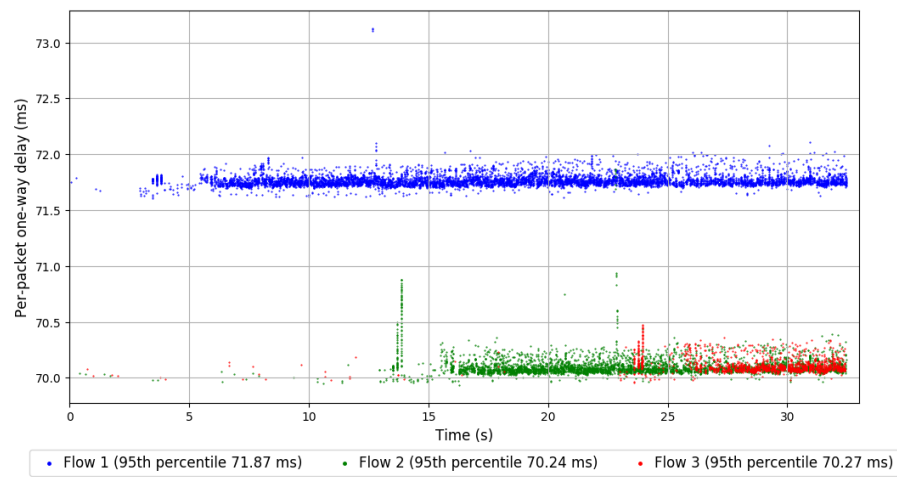
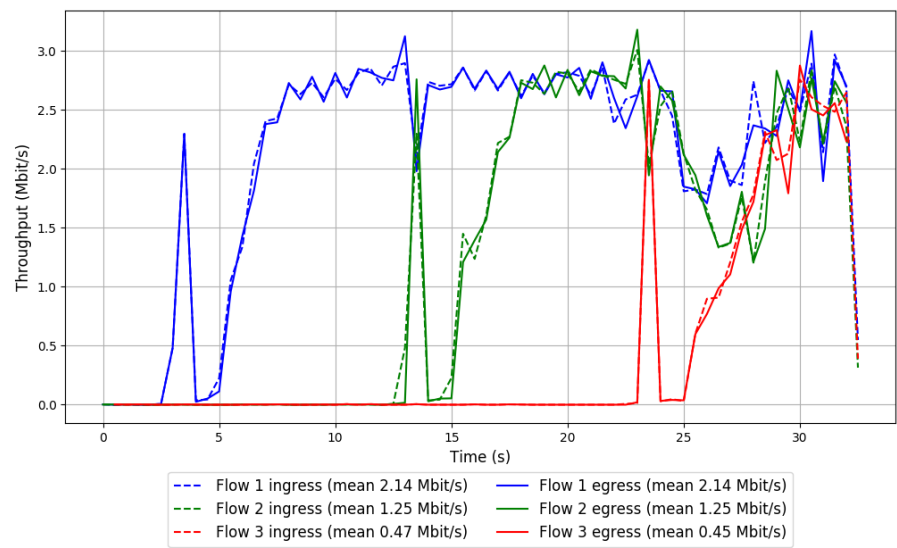
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 70.272 ms

Loss rate: 3.98%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 22:52:43

End at: 2017-12-11 22:53:13

Local clock offset: -0.372 ms

Remote clock offset: 8.285 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 74.463 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 74.456 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 74.491 ms

Loss rate: 0.60%

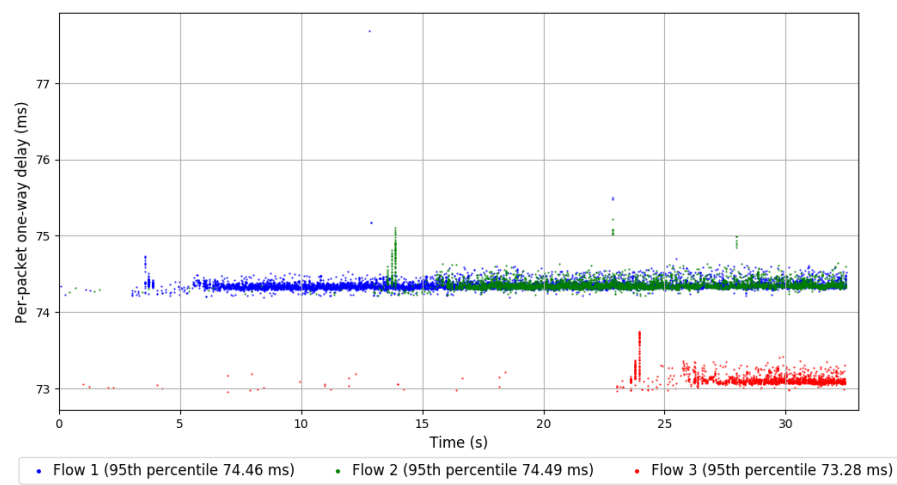
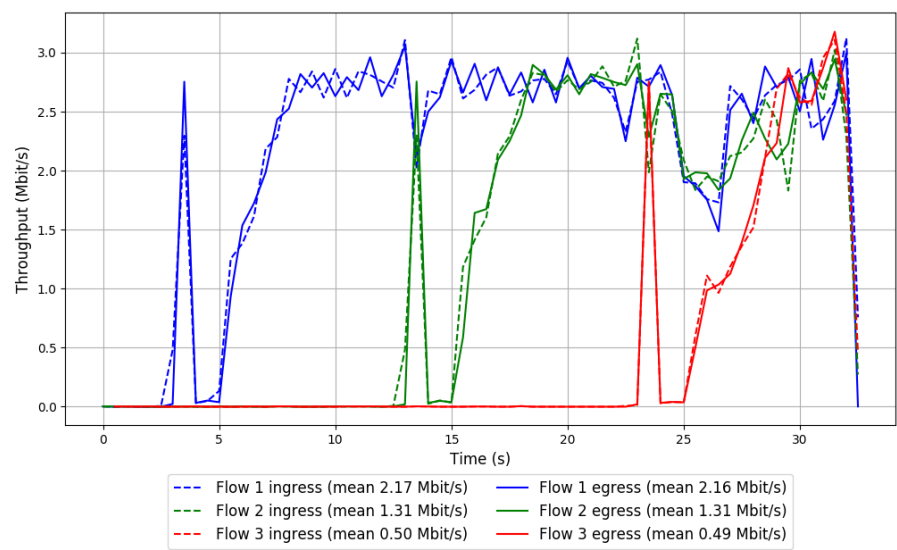
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 73.283 ms

Loss rate: 2.48%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

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

End at: 2017-12-11 23:13:19

Local clock offset: -0.408 ms

Remote clock offset: 9.025 ms

Below is generated by plot.py at 2017-12-12 03:03:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 74.333 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 72.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 74.355 ms

Loss rate: 0.79%

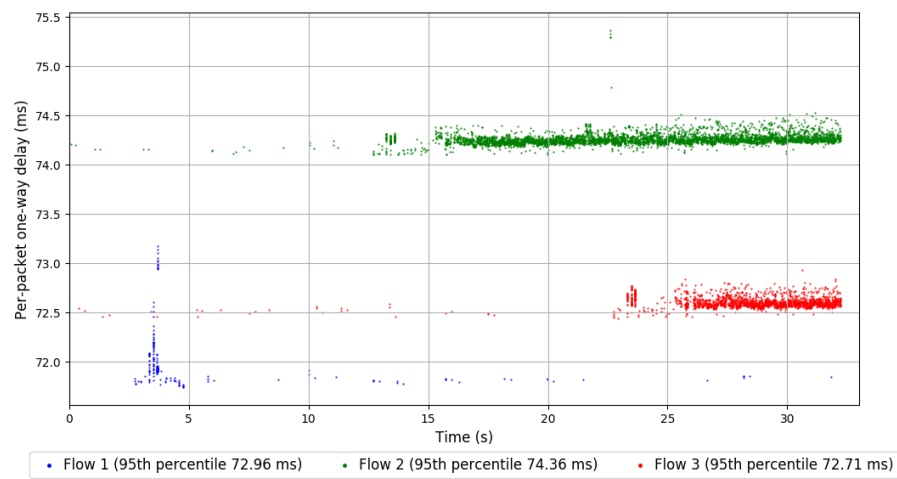
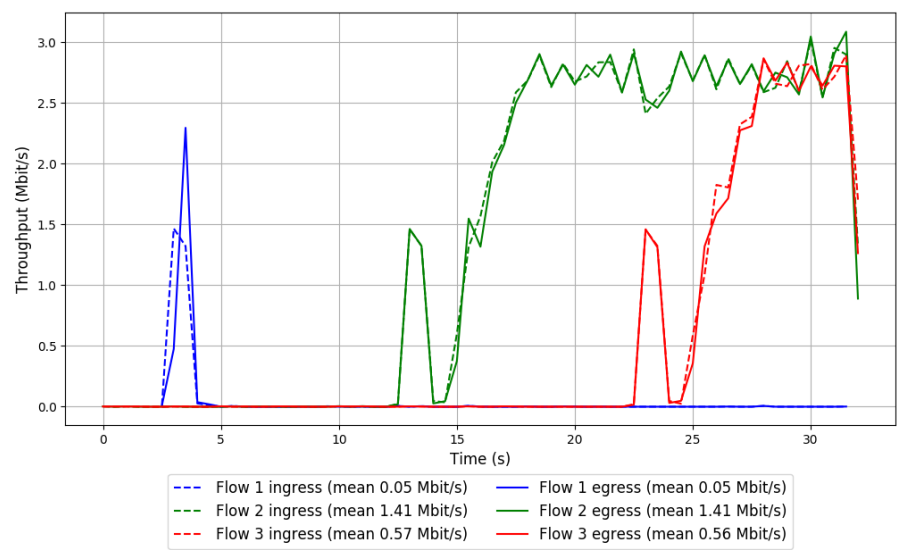
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 72.712 ms

Loss rate: 2.36%

Run 10: Report of WebRTC media — Data Link

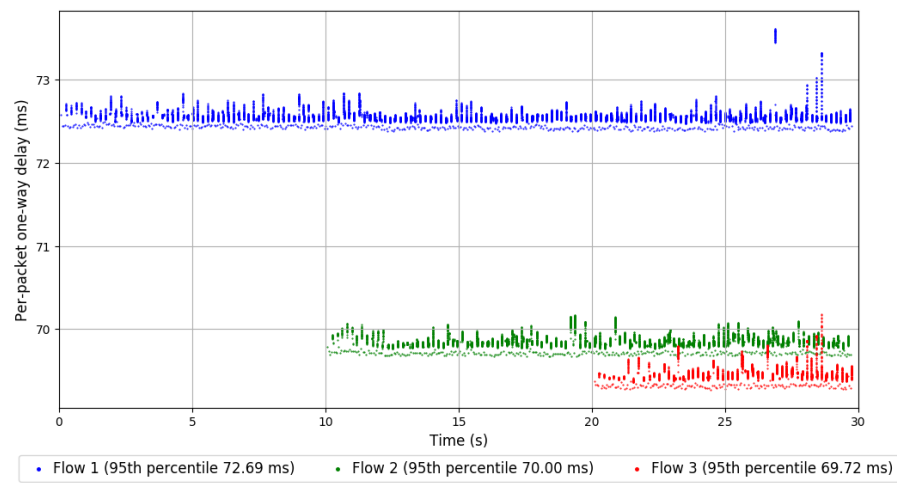
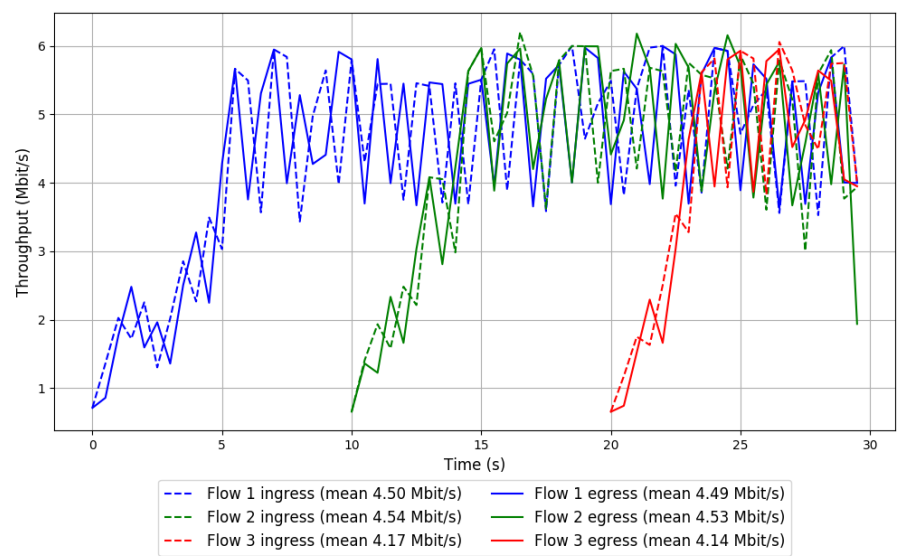


Run 1: Statistics of Sprout

Start at: 2017-12-11 19:59:45
End at: 2017-12-11 20:00:15
Local clock offset: -0.088 ms
Remote clock offset: 11.327 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 72.636 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 72.687 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 70.005 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 69.717 ms
Loss rate: 2.44%

Run 1: Report of Sprout — Data Link

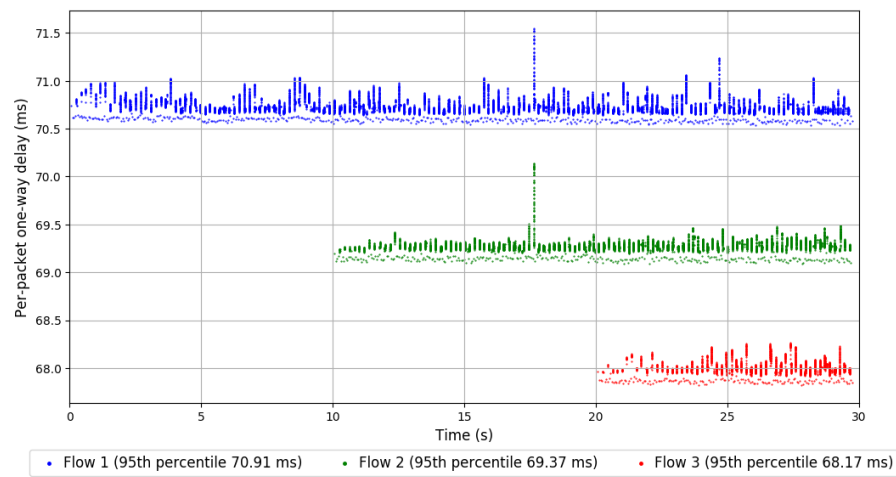
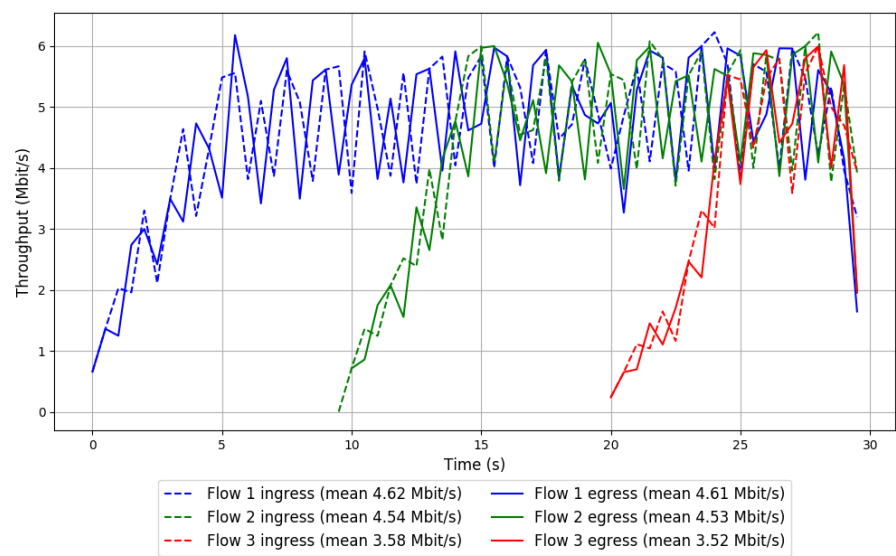


Run 2: Statistics of Sprout

Start at: 2017-12-11 20:19:48
End at: 2017-12-11 20:20:18
Local clock offset: 0.02 ms
Remote clock offset: 12.224 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 70.854 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 70.906 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 69.367 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 68.168 ms
Loss rate: 2.82%

Run 2: Report of Sprout — Data Link

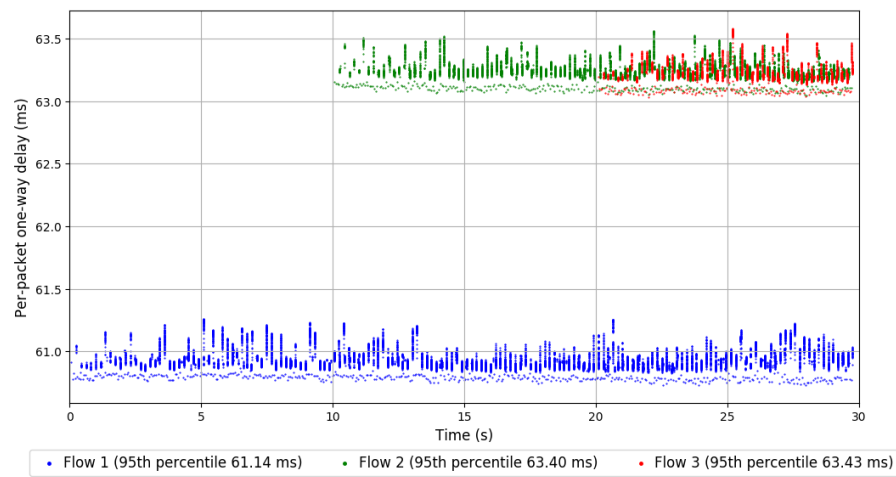
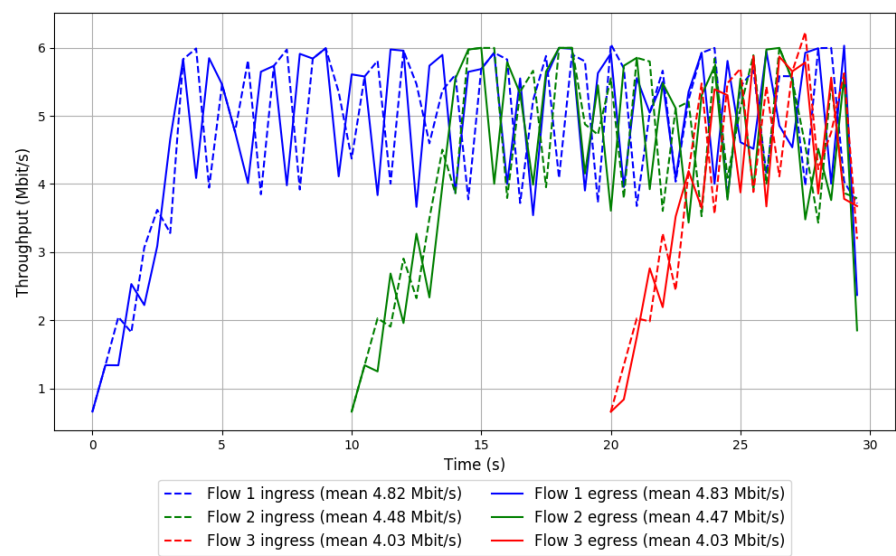


Run 3: Statistics of Sprout

Start at: 2017-12-11 20:39:59
End at: 2017-12-11 20:40:29
Local clock offset: 0.019 ms
Remote clock offset: 18.063 ms

```
# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 63.354 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 61.140 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 63.401 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 1.72%
```


Run 3: Report of Sprout — Data Link

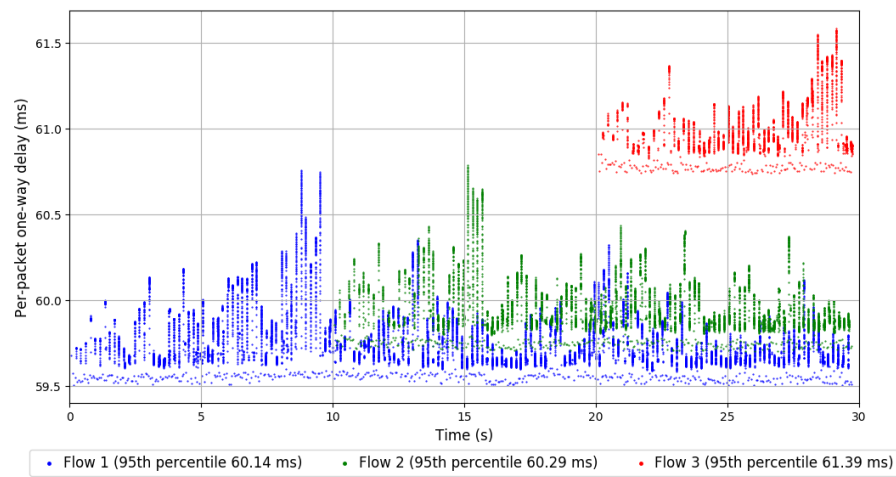
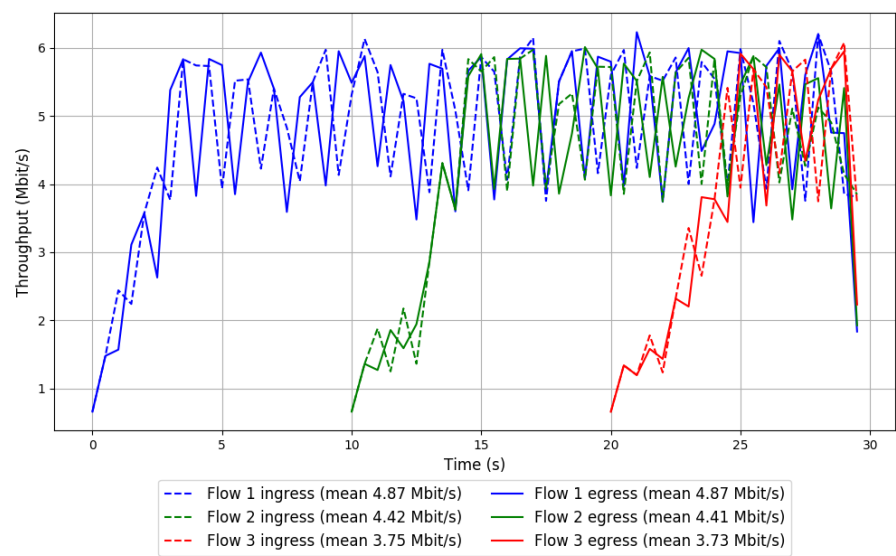


Run 4: Statistics of Sprout

Start at: 2017-12-11 21:00:36
End at: 2017-12-11 21:01:06
Local clock offset: -0.091 ms
Remote clock offset: 18.178 ms

```
# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 61.038 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 60.143 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 60.293 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 61.394 ms
Loss rate: 2.20%
```

Run 4: Report of Sprout — Data Link

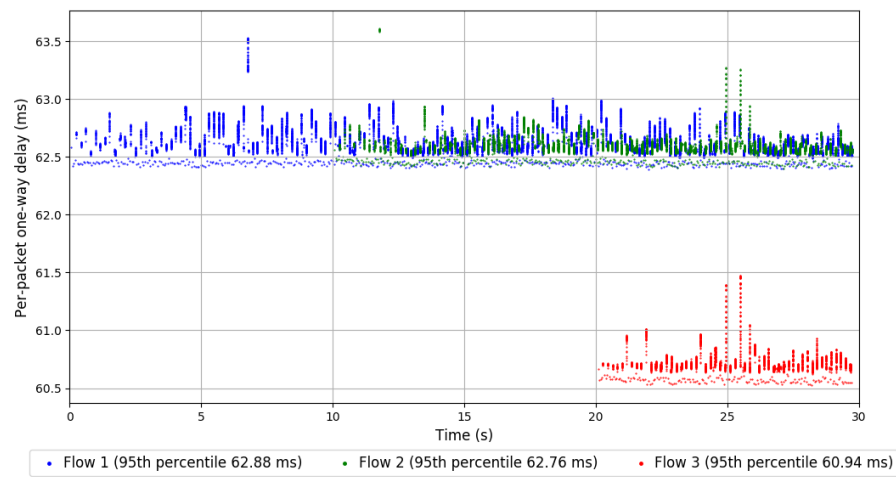
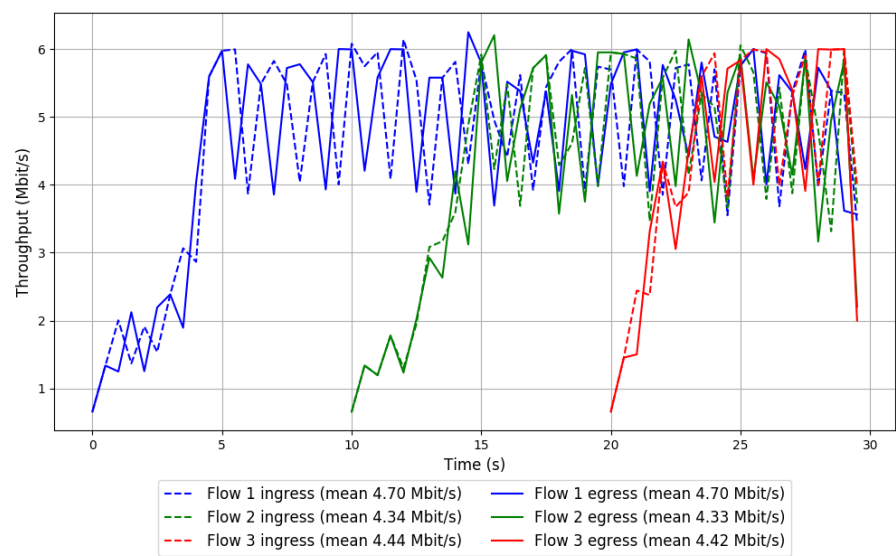


Run 5: Statistics of Sprout

Start at: 2017-12-11 21:20:36
End at: 2017-12-11 21:21:06
Local clock offset: -0.106 ms
Remote clock offset: 17.306 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 62.840 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 62.881 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 62.762 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 60.939 ms
Loss rate: 2.27%

Run 5: Report of Sprout — Data Link

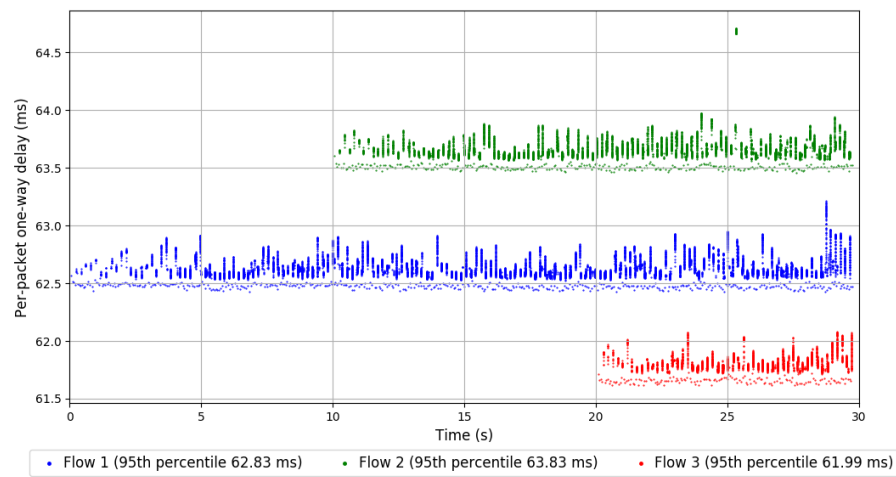
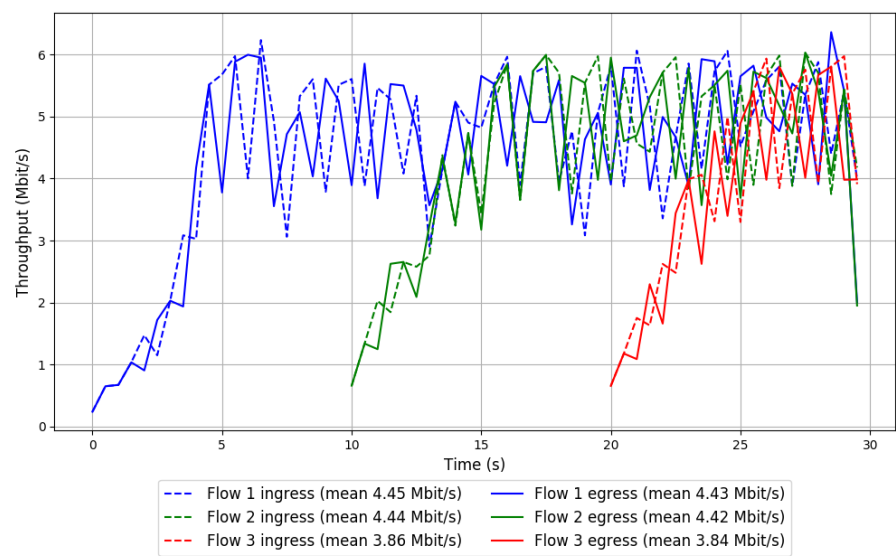


Run 6: Statistics of Sprout

Start at: 2017-12-11 21:40:46
End at: 2017-12-11 21:41:16
Local clock offset: -0.127 ms
Remote clock offset: 17.125 ms

```
# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 63.750 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 62.825 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 61.995 ms
Loss rate: 2.53%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

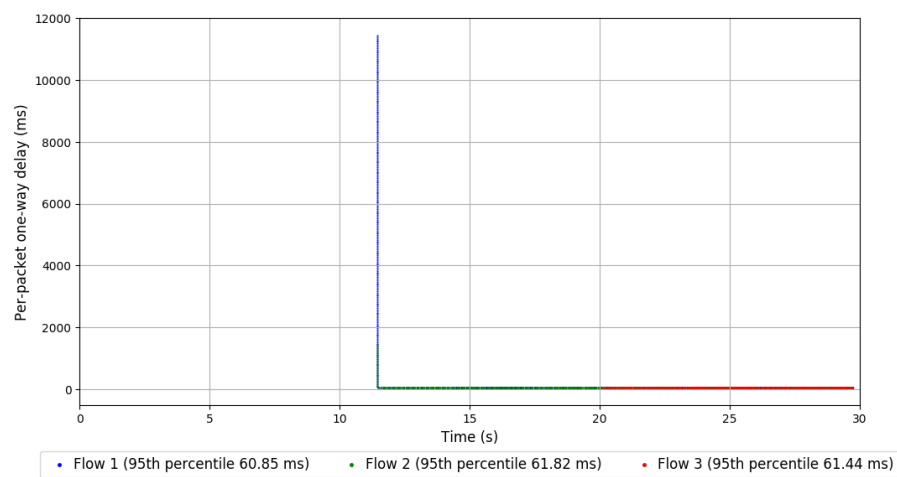
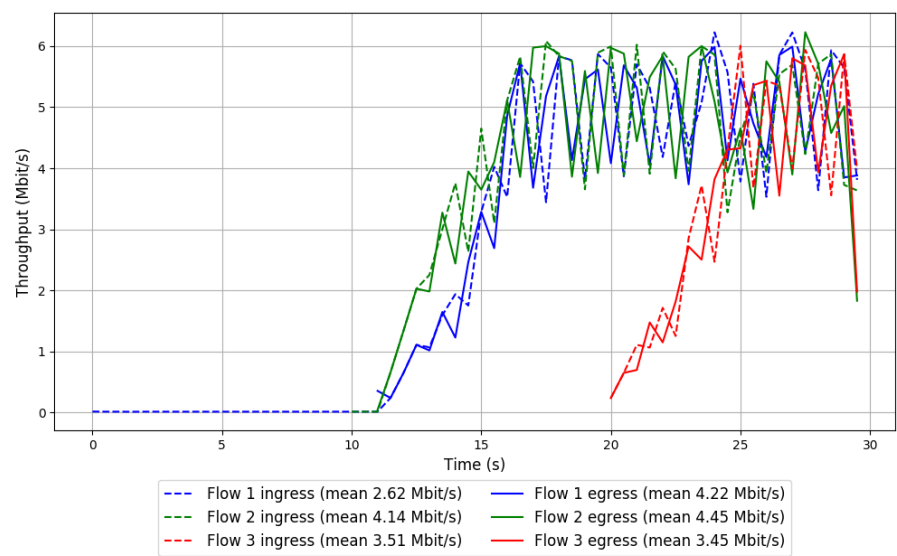
Start at: 2017-12-11 22:01:03

End at: 2017-12-11 22:01:33

Local clock offset: -0.134 ms

Remote clock offset: 19.526 ms

Run 7: Report of Sprout — Data Link

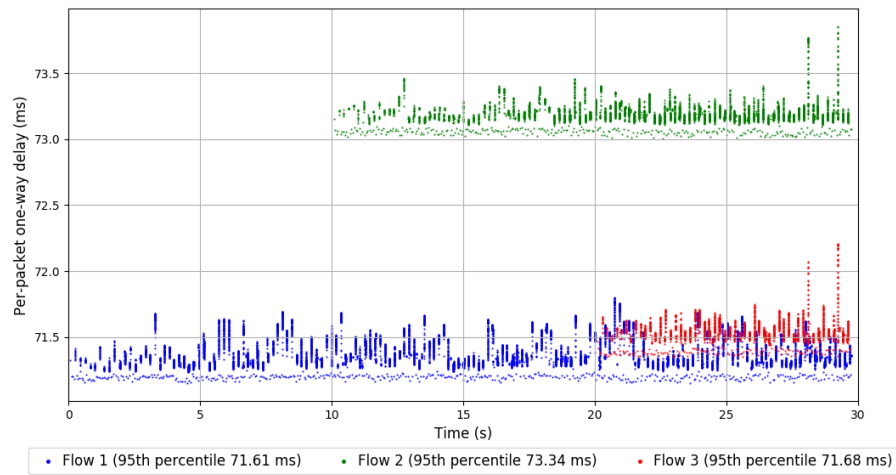
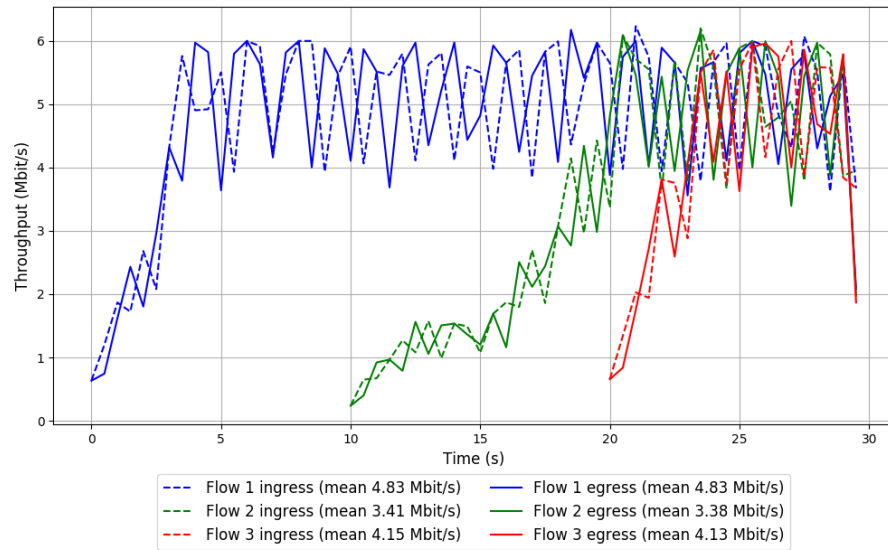


Run 8: Statistics of Sprout

Start at: 2017-12-11 22:21:12
End at: 2017-12-11 22:21:42
Local clock offset: -0.132 ms
Remote clock offset: 8.465 ms

```
# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 73.236 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 71.609 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 73.336 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 71.676 ms
Loss rate: 2.22%
```

Run 8: Report of Sprout — Data Link

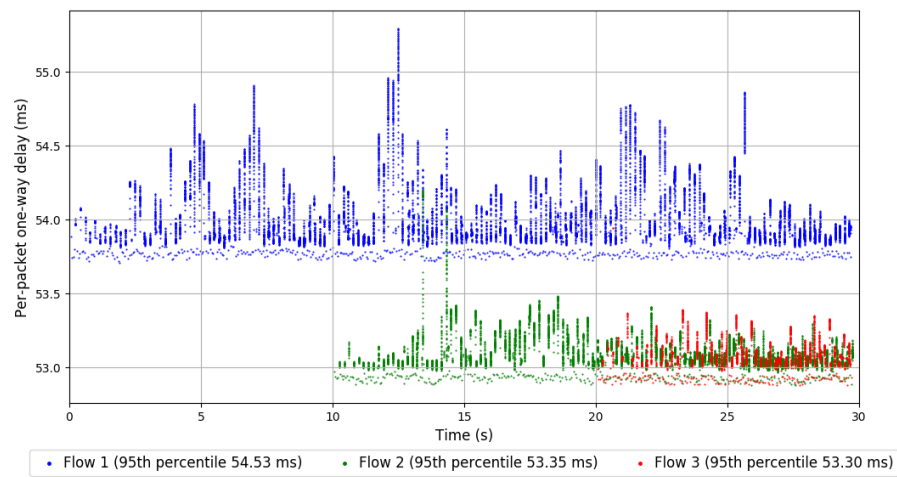
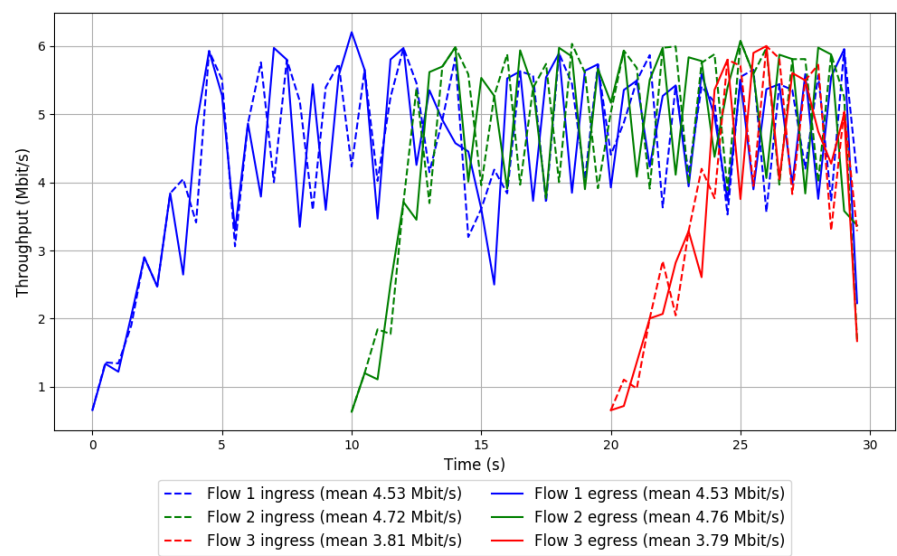


Run 9: Statistics of Sprout

Start at: 2017-12-11 22:41:08
End at: 2017-12-11 22:41:38
Local clock offset: -0.235 ms
Remote clock offset: 26.482 ms

Below is generated by plot.py at 2017-12-12 03:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 54.386 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 53.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 53.299 ms
Loss rate: 2.24%

Run 9: Report of Sprout — Data Link

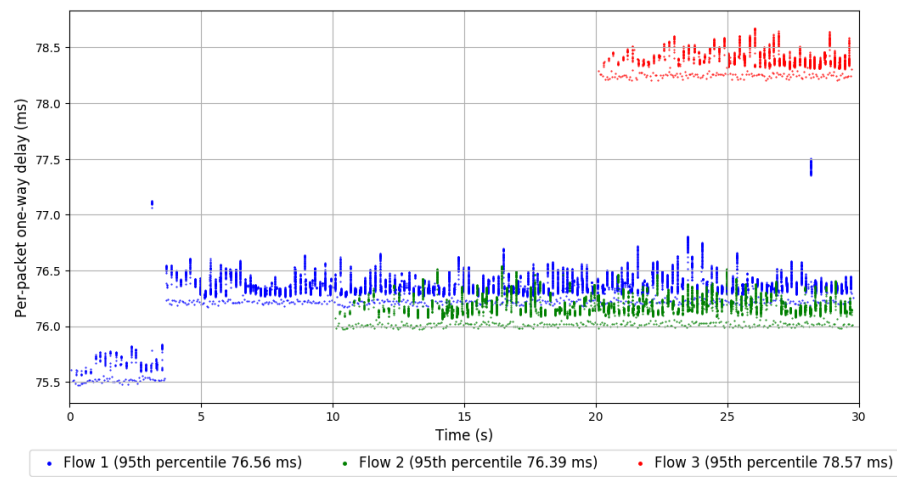
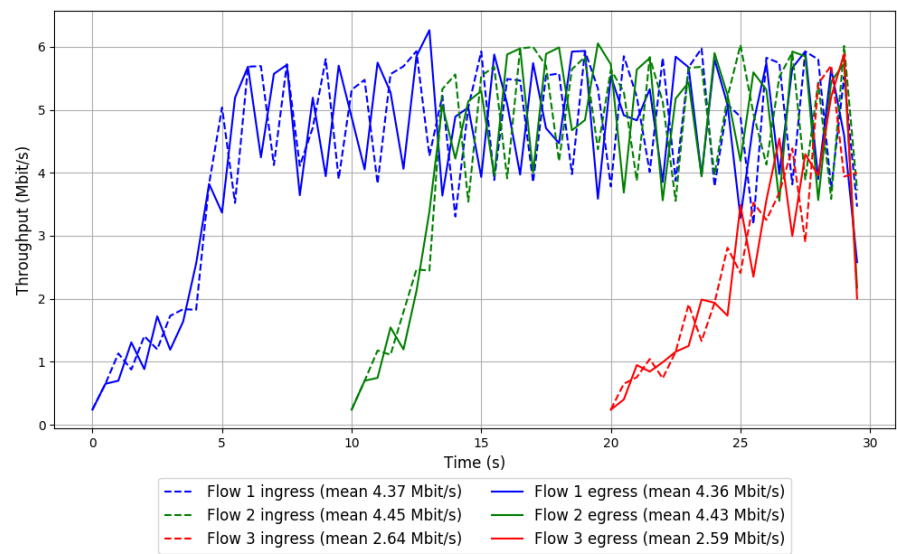


Run 10: Statistics of Sprout

Start at: 2017-12-11 23:01:04
End at: 2017-12-11 23:01:34
Local clock offset: -0.352 ms
Remote clock offset: 4.747 ms

```
# Below is generated by plot.py at 2017-12-12 03:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 78.389 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 76.562 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 76.393 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 78.571 ms
Loss rate: 3.86%
```

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

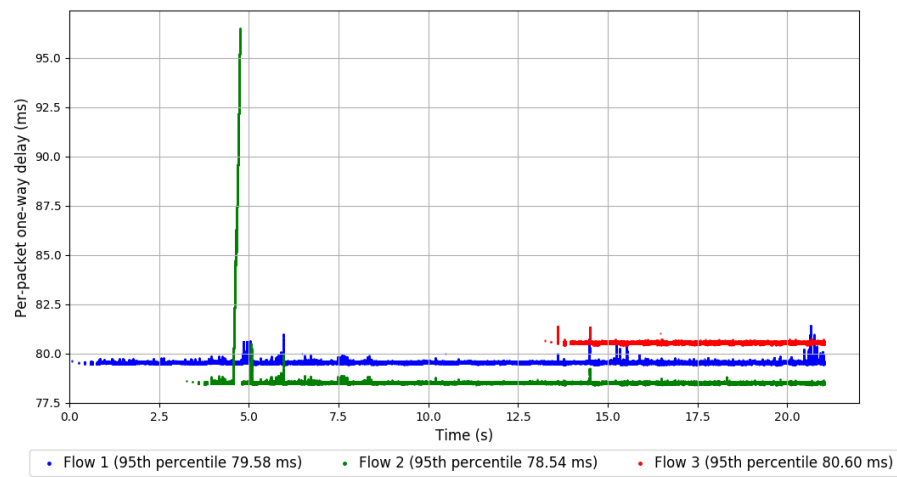
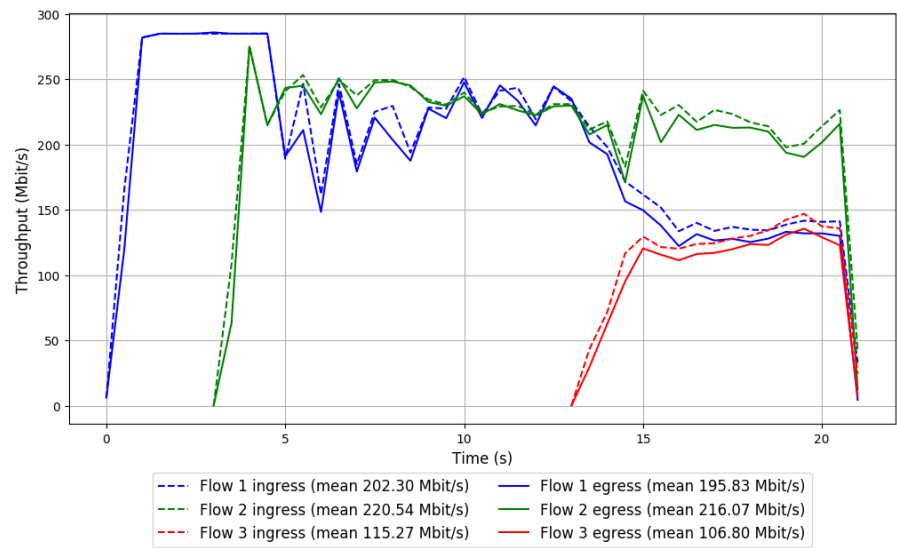
Start at: 2017-12-11 20:09:43

End at: 2017-12-11 20:10:13

Local clock offset: 0.022 ms

Remote clock offset: 2.261 ms

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

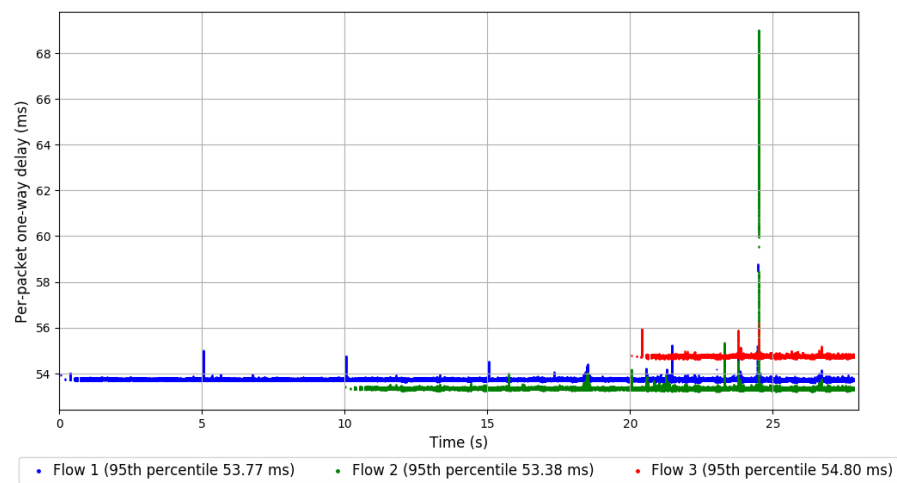
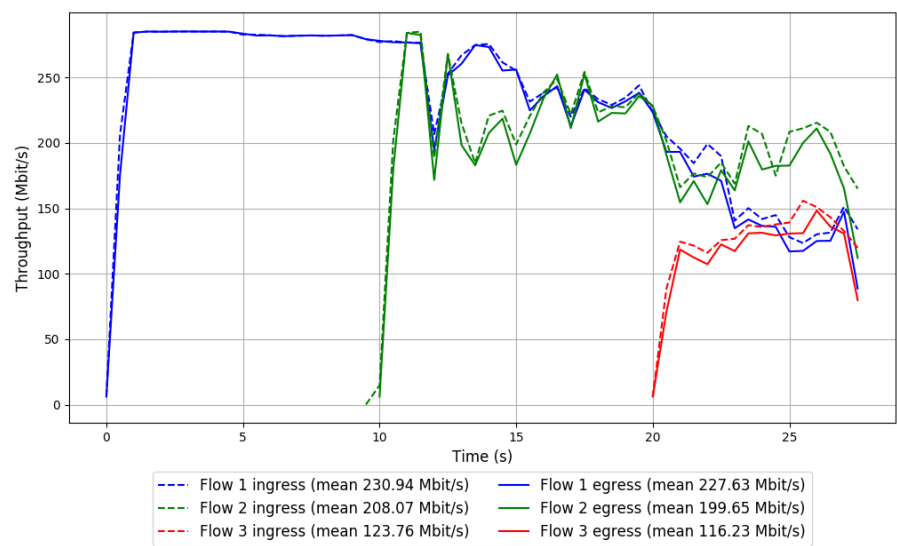


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 20:29:51
End at: 2017-12-11 20:30:21
Local clock offset: 0.018 ms
Remote clock offset: 25.862 ms

# Below is generated by plot.py at 2017-12-12 03:10:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.01 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 227.63 Mbit/s
95th percentile per-packet one-way delay: 53.769 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 199.65 Mbit/s
95th percentile per-packet one-way delay: 53.378 ms
Loss rate: 4.94%
-- Flow 3:
Average throughput: 116.23 Mbit/s
95th percentile per-packet one-way delay: 54.797 ms
Loss rate: 8.07%
```

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

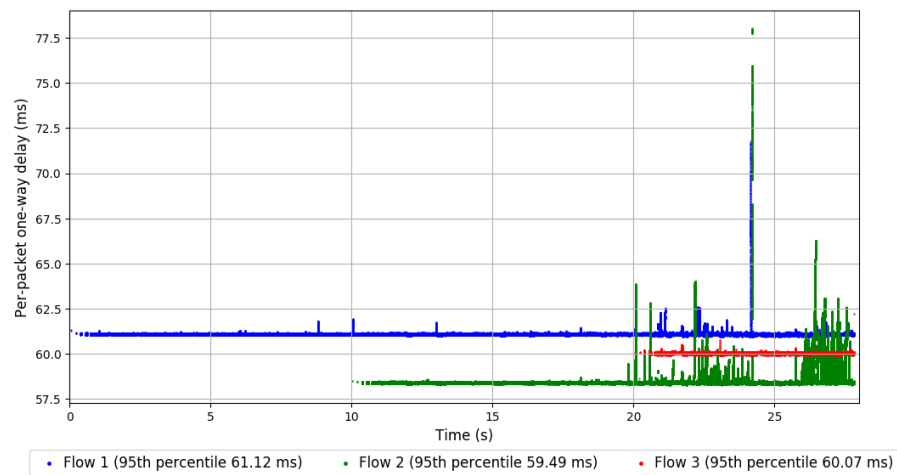
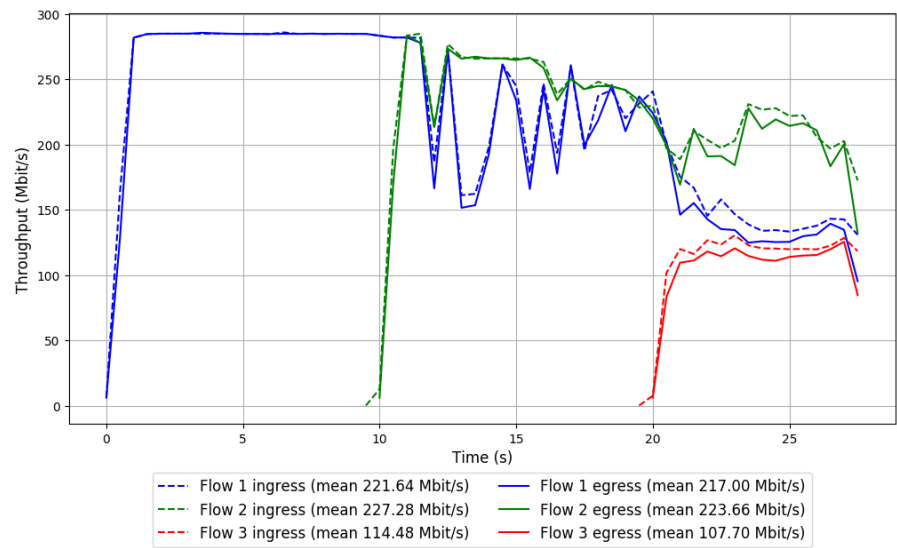


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 20:50:24
End at: 2017-12-11 20:50:54
Local clock offset: -0.018 ms
Remote clock offset: 19.879 ms

Below is generated by plot.py at 2017-12-12 03:10:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.42 Mbit/s
95th percentile per-packet one-way delay: 61.115 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 217.00 Mbit/s
95th percentile per-packet one-way delay: 61.121 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 223.66 Mbit/s
95th percentile per-packet one-way delay: 59.489 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 107.70 Mbit/s
95th percentile per-packet one-way delay: 60.072 ms
Loss rate: 7.91%

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



Run 4: Statistics of TaoVA-100x

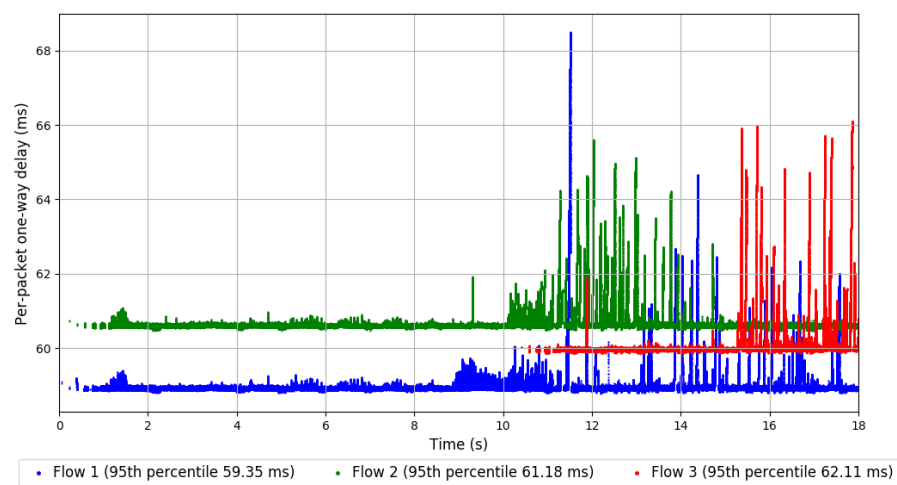
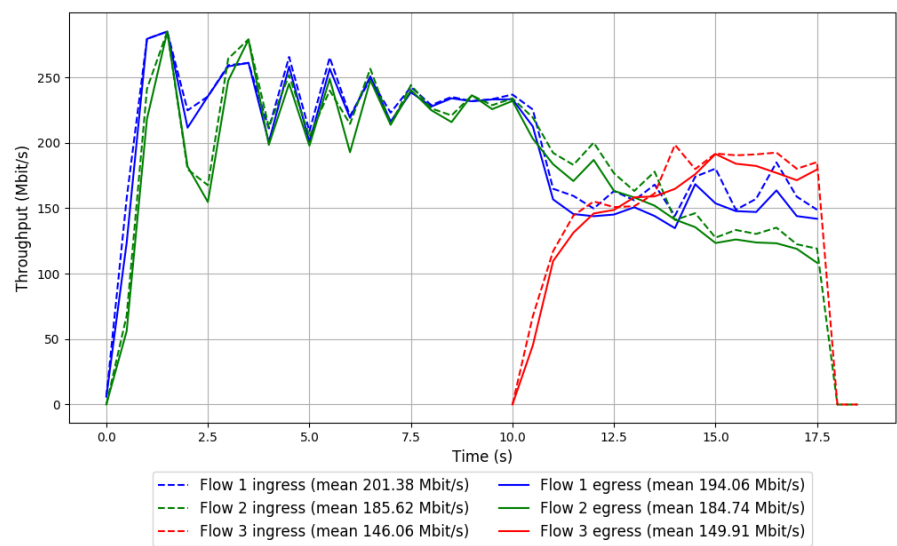
Start at: 2017-12-11 21:10:40

End at: 2017-12-11 21:11:10

Local clock offset: -0.067 ms

Remote clock offset: 19.208 ms

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



Run 5: Statistics of TaoVA-100x

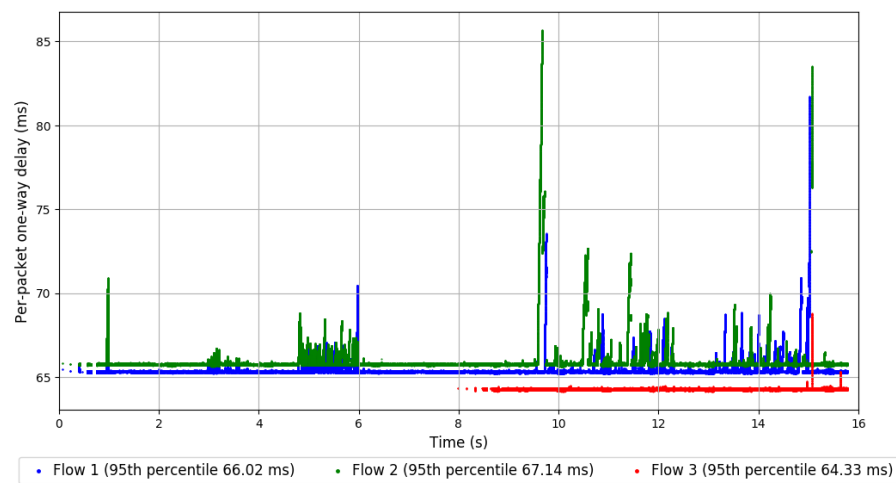
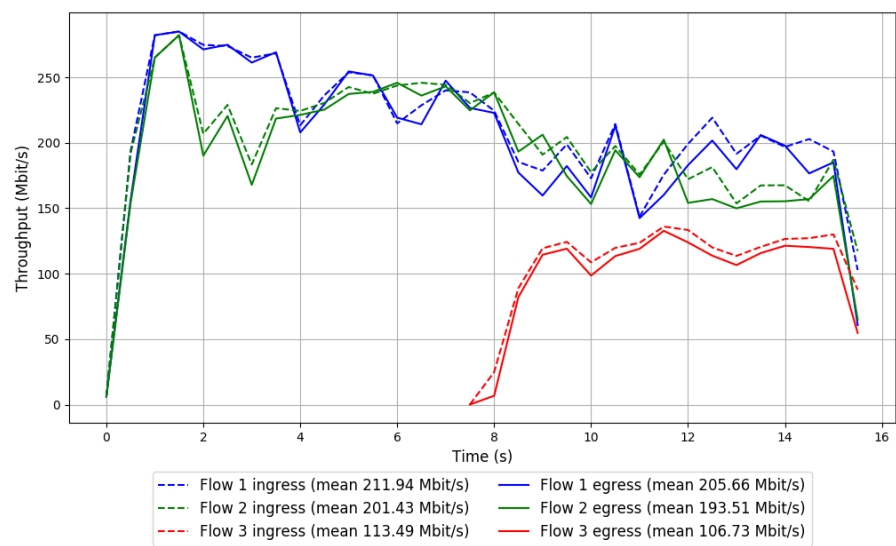
Start at: 2017-12-11 21:30:44

End at: 2017-12-11 21:31:14

Local clock offset: -0.127 ms

Remote clock offset: 13.867 ms

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

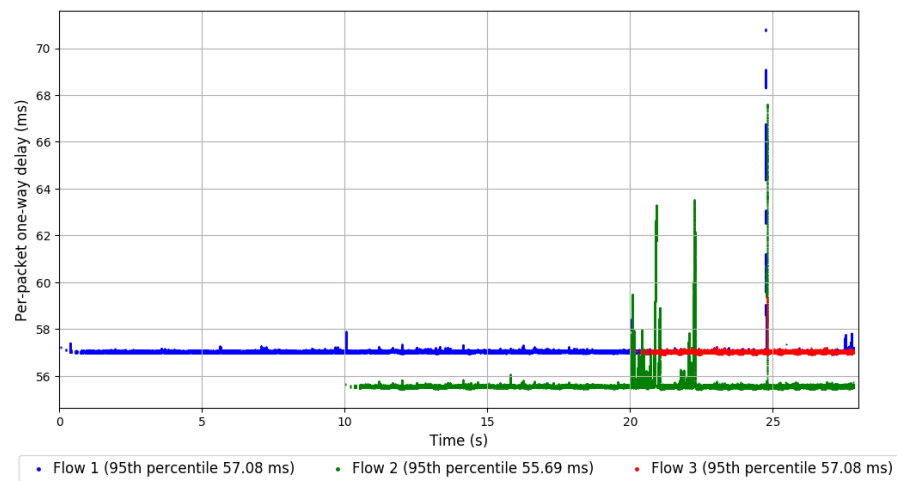
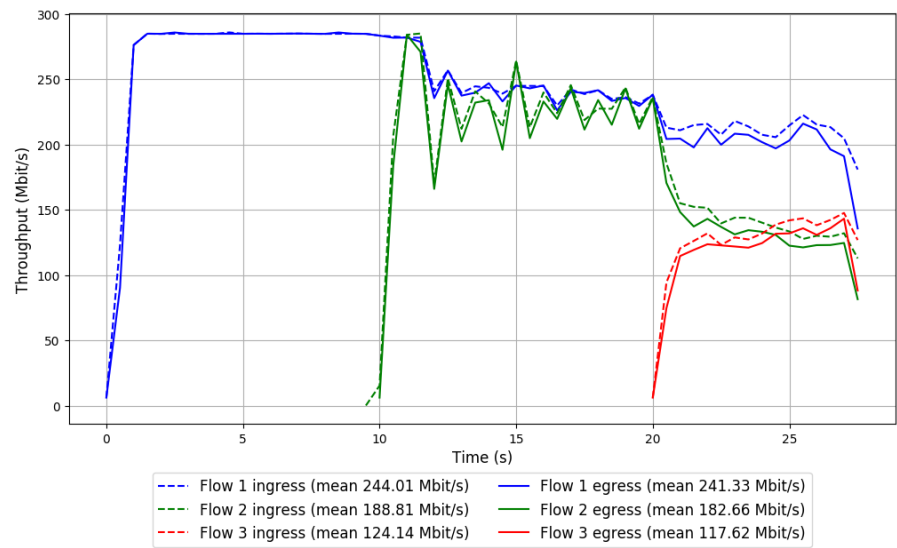


Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 21:50:55
End at: 2017-12-11 21:51:25
Local clock offset: -0.105 ms
Remote clock offset: 23.521 ms

Below is generated by plot.py at 2017-12-12 03:11:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.23 Mbit/s
95th percentile per-packet one-way delay: 57.074 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 241.33 Mbit/s
95th percentile per-packet one-way delay: 57.076 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 182.66 Mbit/s
95th percentile per-packet one-way delay: 55.690 ms
Loss rate: 4.16%
-- Flow 3:
Average throughput: 117.62 Mbit/s
95th percentile per-packet one-way delay: 57.079 ms
Loss rate: 7.27%

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



Run 7: Statistics of TaoVA-100x

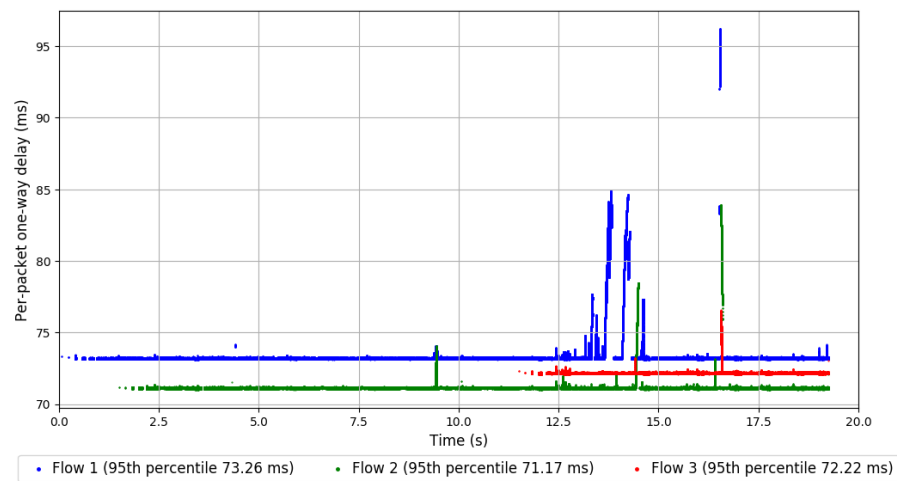
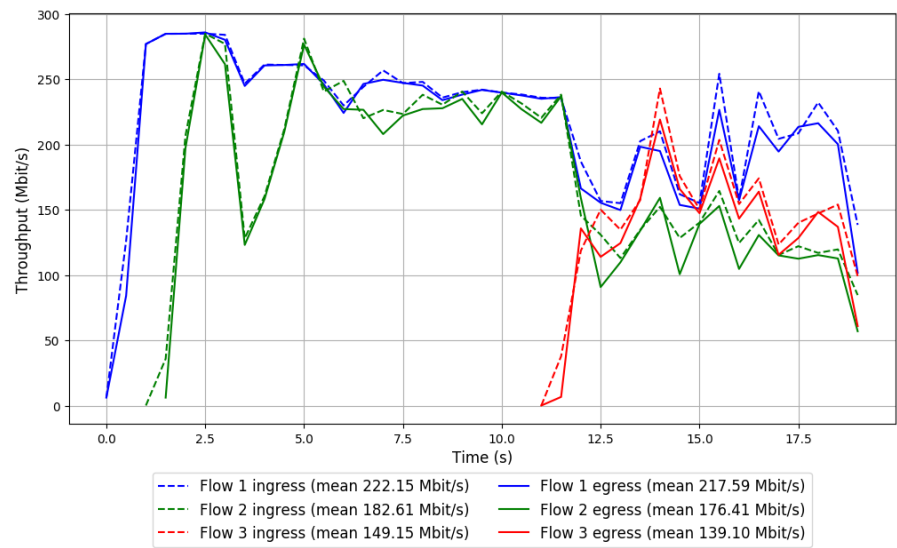
Start at: 2017-12-11 22:11:08

End at: 2017-12-11 22:11:38

Local clock offset: -0.138 ms

Remote clock offset: 7.008 ms

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



Run 8: Statistics of TaoVA-100x

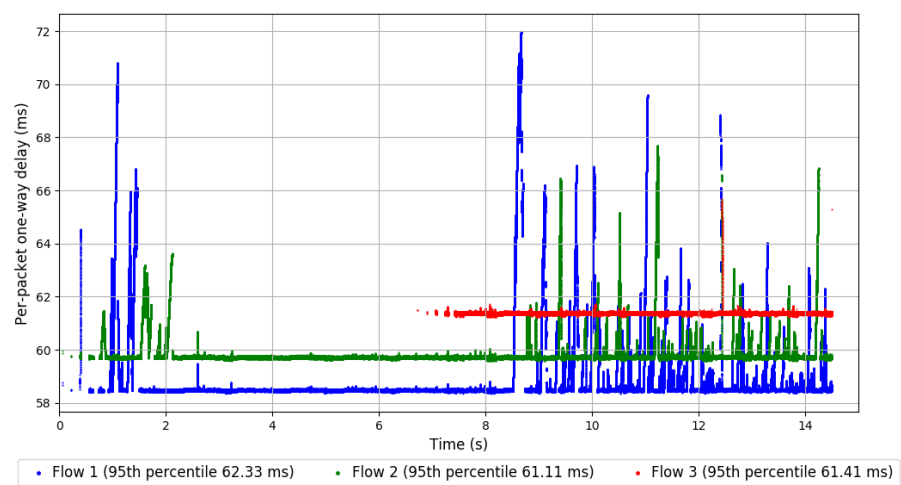
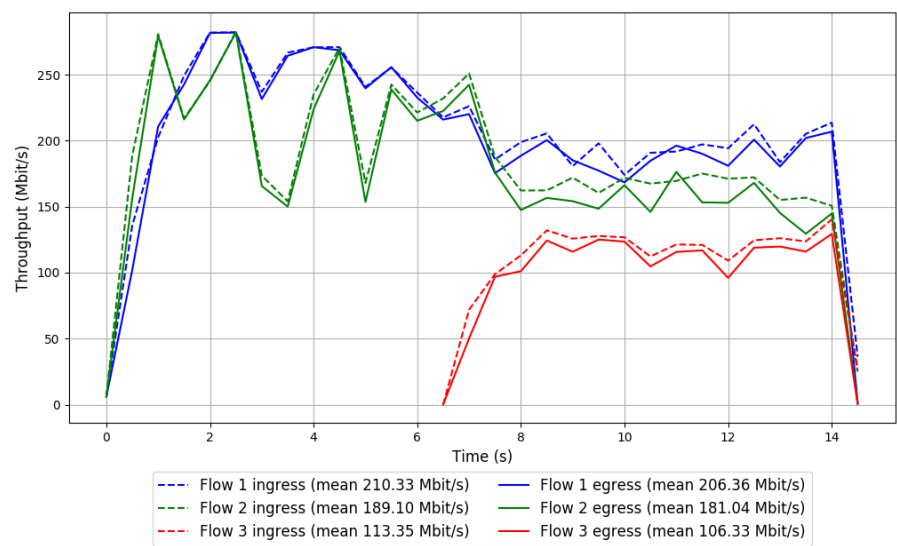
Start at: 2017-12-11 22:31:07

End at: 2017-12-11 22:31:37

Local clock offset: -0.178 ms

Remote clock offset: 20.571 ms

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



Run 9: Statistics of TaoVA-100x

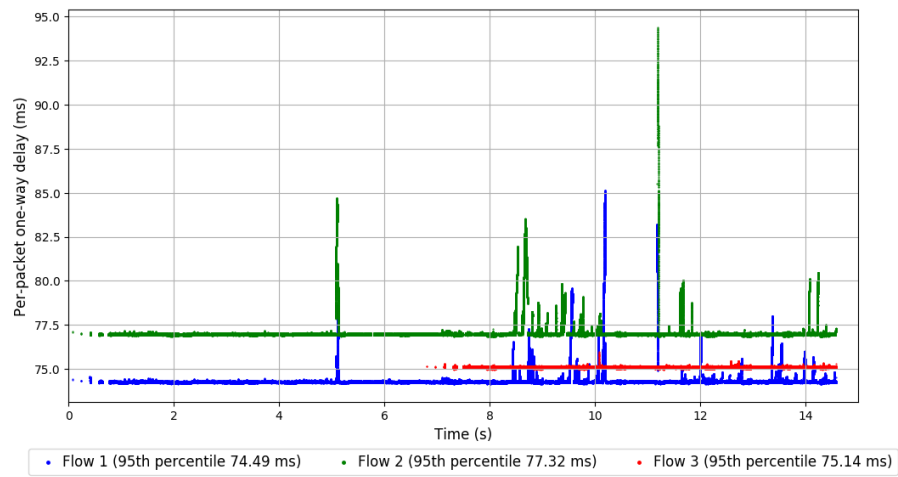
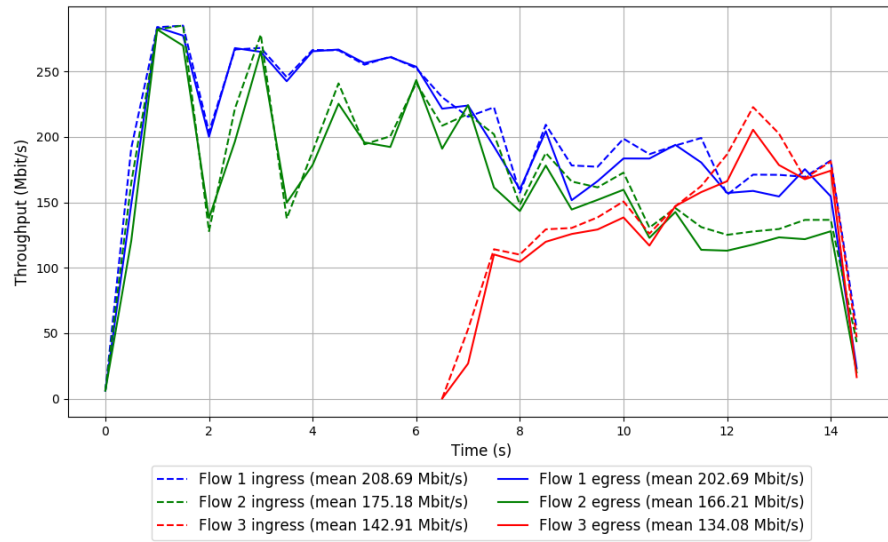
Start at: 2017-12-11 22:51:08

End at: 2017-12-11 22:51:38

Local clock offset: -0.253 ms

Remote clock offset: 5.717 ms

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



Run 10: Statistics of TaoVA-100x

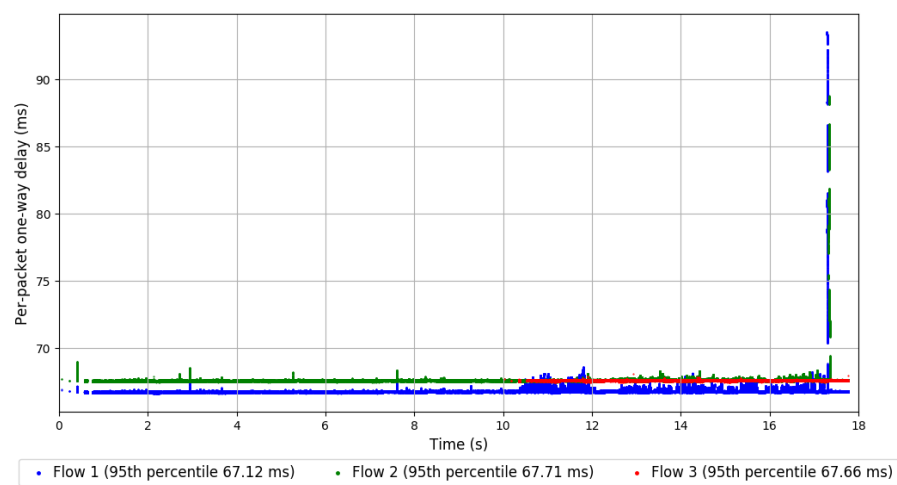
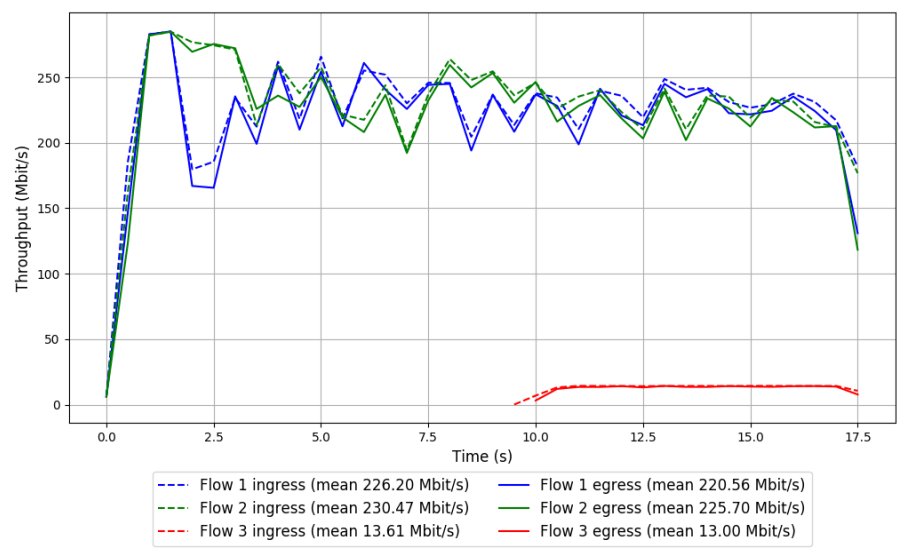
Start at: 2017-12-11 23:11:09

End at: 2017-12-11 23:11:39

Local clock offset: -0.287 ms

Remote clock offset: 14.968 ms

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

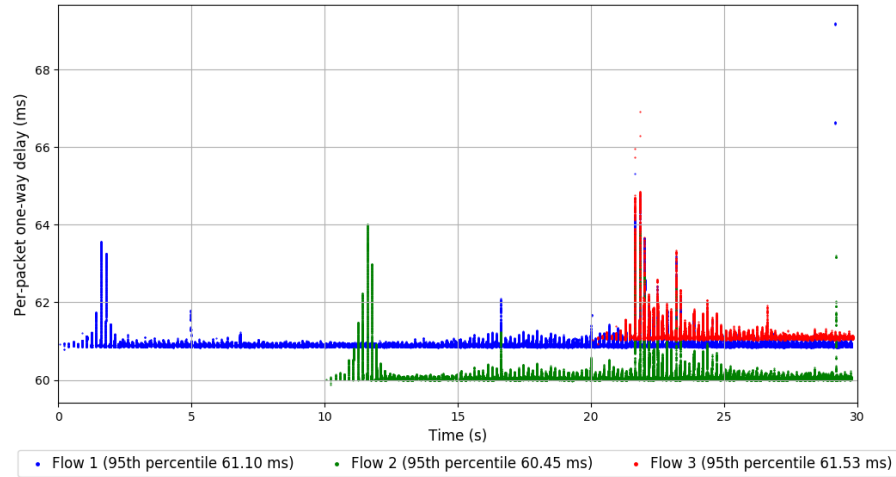
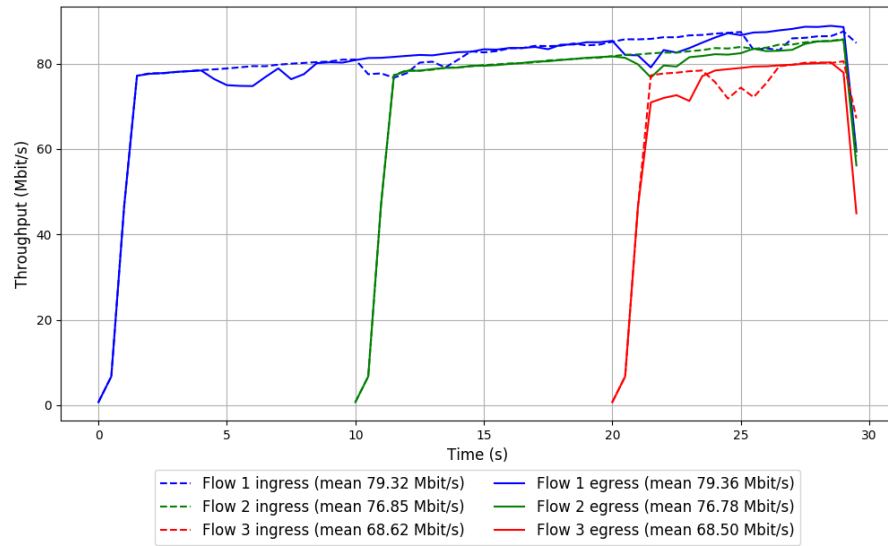


Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 20:05:18
End at: 2017-12-11 20:05:48
Local clock offset: 0.021 ms
Remote clock offset: 22.806 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 152.57 Mbit/s
95th percentile per-packet one-way delay: 61.195 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 61.103 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 60.454 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 68.50 Mbit/s
95th percentile per-packet one-way delay: 61.528 ms
Loss rate: 1.87%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 20:25:30

End at: 2017-12-11 20:26:00

Local clock offset: 0.042 ms

Remote clock offset: 9.8 ms

Below is generated by plot.py at 2017-12-12 03:15:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.37 Mbit/s

95th percentile per-packet one-way delay: 71.619 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 81.59 Mbit/s

95th percentile per-packet one-way delay: 71.058 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 69.863 ms

Loss rate: 0.92%

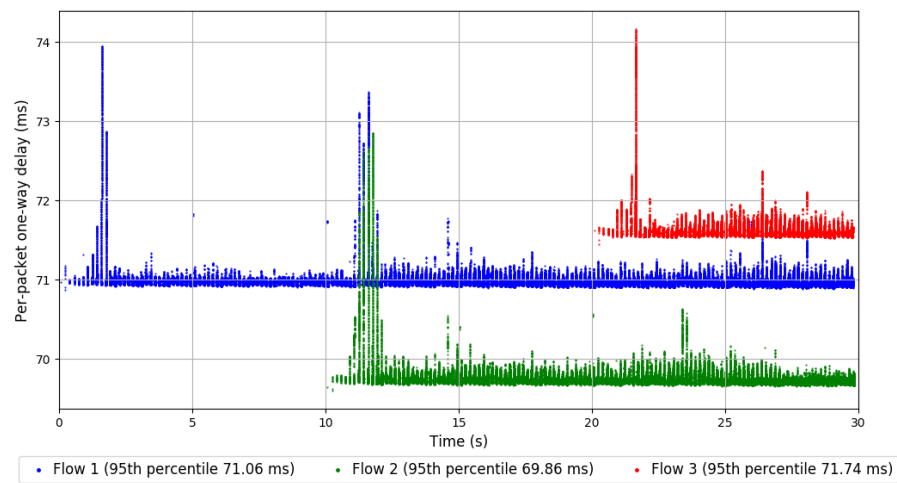
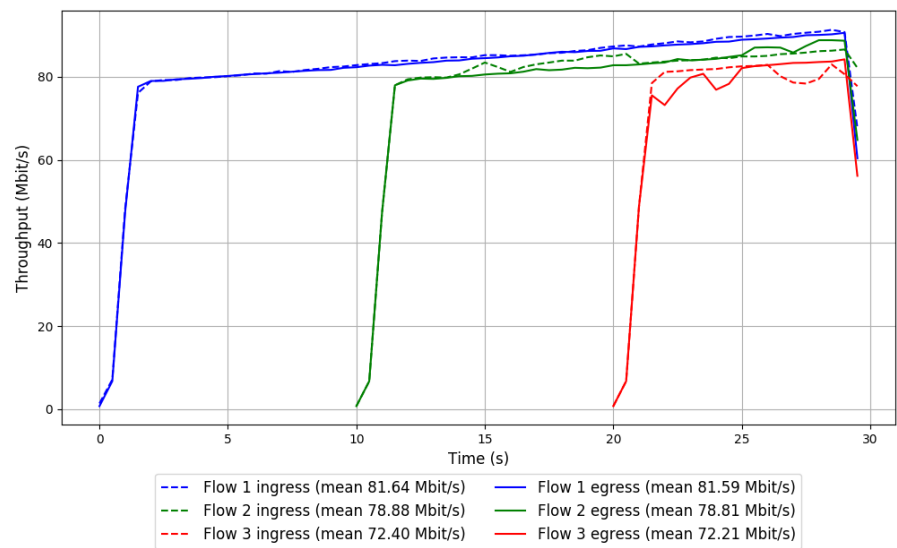
-- Flow 3:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 71.744 ms

Loss rate: 1.96%

Run 2: Report of TCP Vegas — Data Link

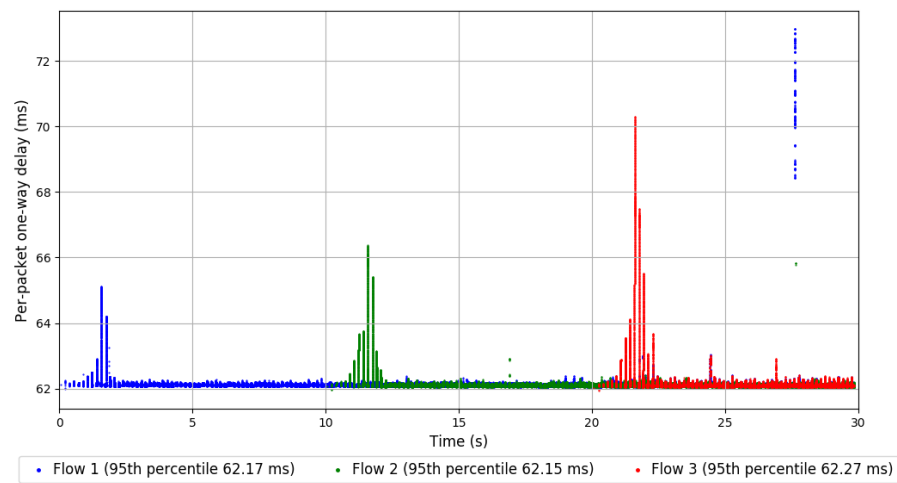
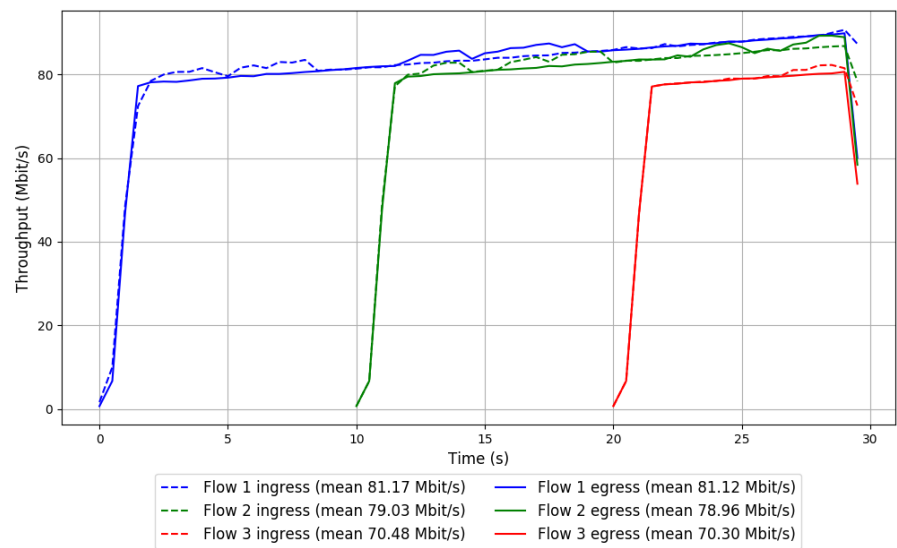


Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 20:45:56
End at: 2017-12-11 20:46:26
Local clock offset: 0.013 ms
Remote clock offset: 16.465 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.55 Mbit/s
95th percentile per-packet one-way delay: 62.175 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 81.12 Mbit/s
95th percentile per-packet one-way delay: 62.167 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 78.96 Mbit/s
95th percentile per-packet one-way delay: 62.153 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 70.30 Mbit/s
95th percentile per-packet one-way delay: 62.274 ms
Loss rate: 1.93%

Run 3: Report of TCP Vegas — Data Link

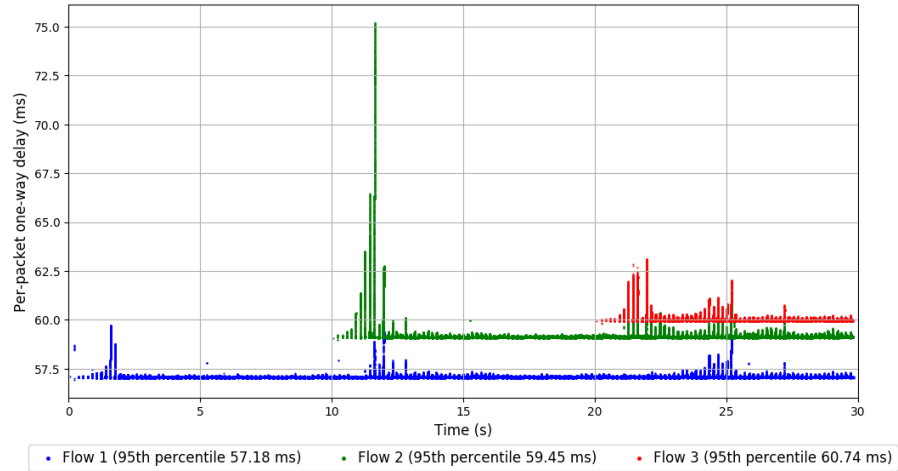
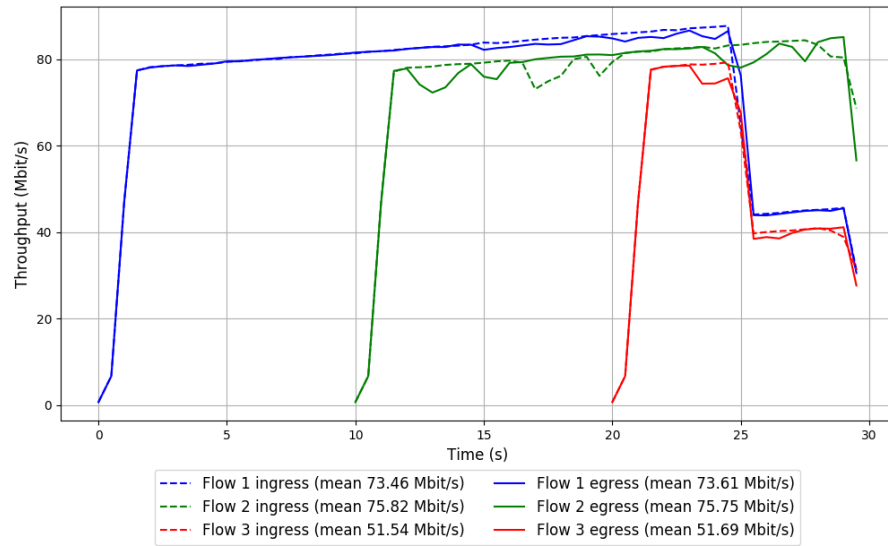


Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 21:06:17
End at: 2017-12-11 21:06:47
Local clock offset: -0.049 ms
Remote clock offset: 20.639 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.69 Mbit/s
95th percentile per-packet one-way delay: 60.029 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 73.61 Mbit/s
95th percentile per-packet one-way delay: 57.179 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 59.453 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 51.69 Mbit/s
95th percentile per-packet one-way delay: 60.737 ms
Loss rate: 1.42%

Run 4: Report of TCP Vegas — Data Link

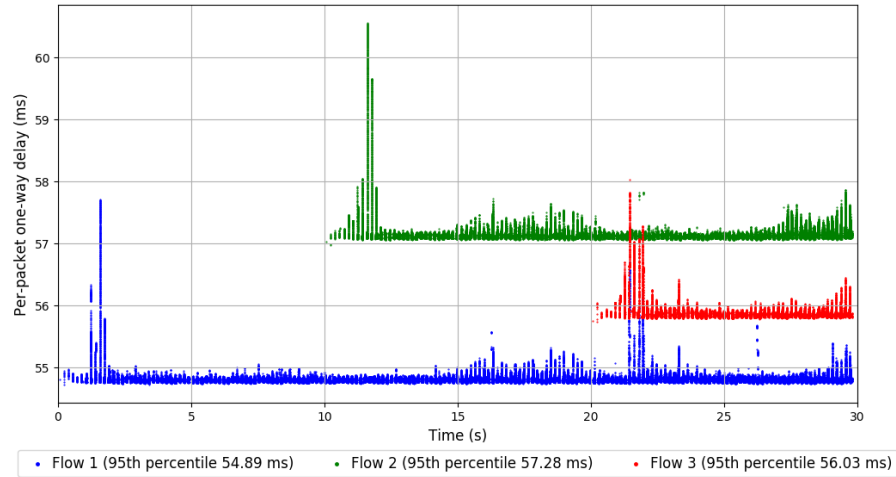
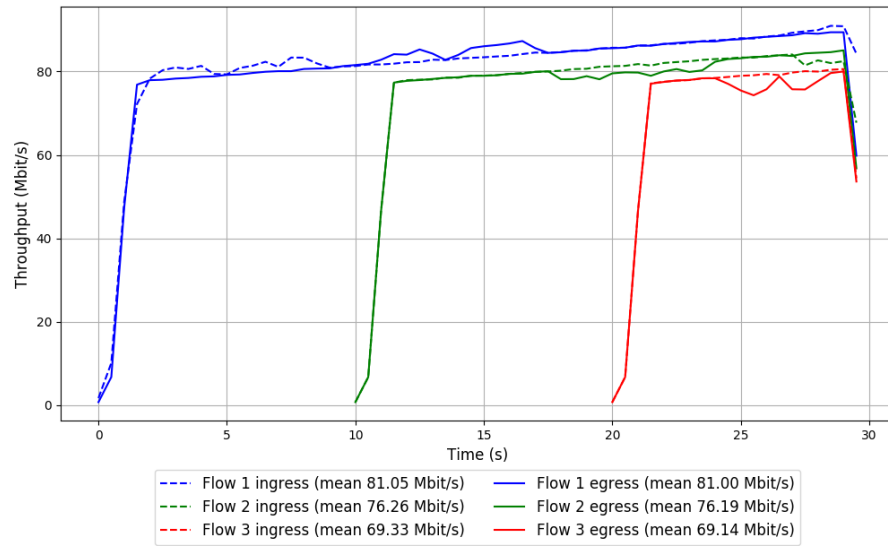


Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 21:26:24
End at: 2017-12-11 21:26:54
Local clock offset: -0.087 ms
Remote clock offset: 23.385 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 154.15 Mbit/s
95th percentile per-packet one-way delay: 57.177 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 81.00 Mbit/s
95th percentile per-packet one-way delay: 54.887 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 76.19 Mbit/s
95th percentile per-packet one-way delay: 57.277 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 69.14 Mbit/s
95th percentile per-packet one-way delay: 56.033 ms
Loss rate: 1.97%

Run 5: Report of TCP Vegas — Data Link

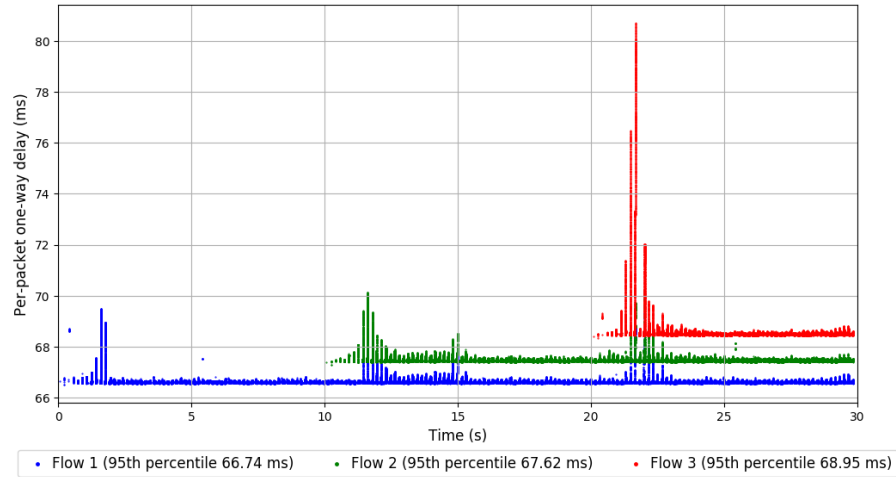
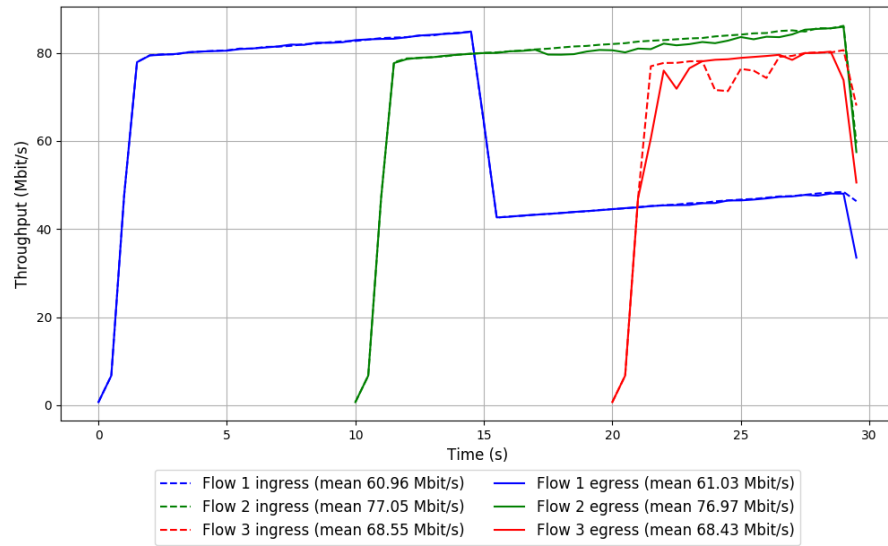


Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 21:46:36
End at: 2017-12-11 21:47:06
Local clock offset: -0.1 ms
Remote clock offset: 12.463 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.52 Mbit/s
95th percentile per-packet one-way delay: 68.526 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 66.743 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 76.97 Mbit/s
95th percentile per-packet one-way delay: 67.616 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 68.948 ms
Loss rate: 1.88%

Run 6: Report of TCP Vegas — Data Link

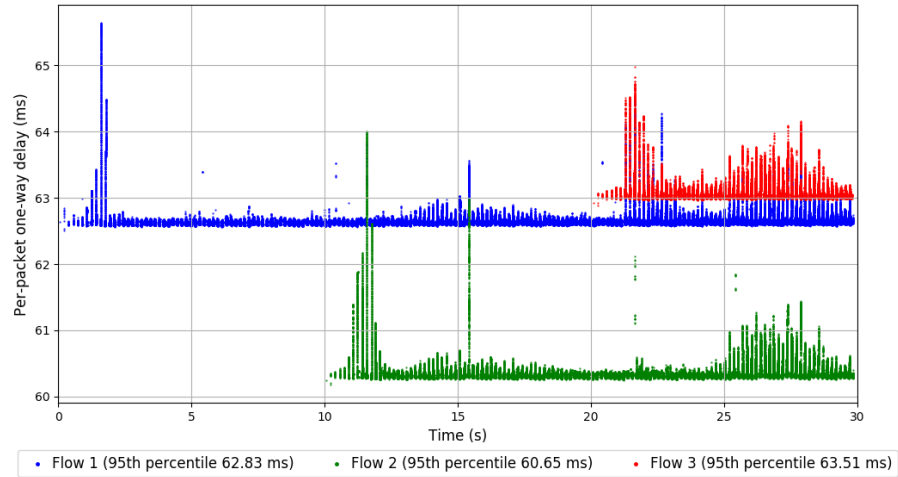
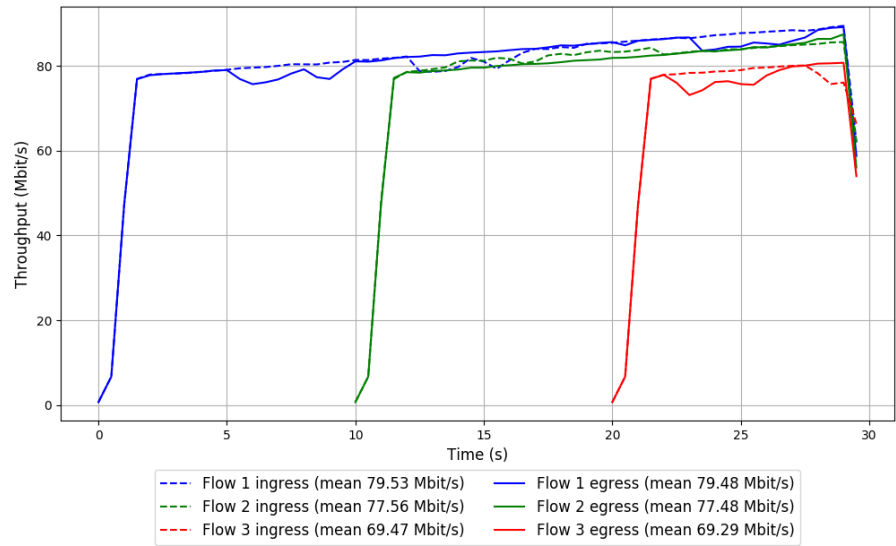


Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 22:06:48
End at: 2017-12-11 22:07:18
Local clock offset: -0.124 ms
Remote clock offset: 18.103 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.57 Mbit/s
95th percentile per-packet one-way delay: 63.099 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 62.831 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 77.48 Mbit/s
95th percentile per-packet one-way delay: 60.649 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 69.29 Mbit/s
95th percentile per-packet one-way delay: 63.506 ms
Loss rate: 1.96%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 22:26:50

End at: 2017-12-11 22:27:20

Local clock offset: -0.193 ms

Remote clock offset: 8.692 ms

Below is generated by plot.py at 2017-12-12 03:15:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.20 Mbit/s

95th percentile per-packet one-way delay: 72.951 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 42.91 Mbit/s

95th percentile per-packet one-way delay: 72.845 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 79.32 Mbit/s

95th percentile per-packet one-way delay: 70.404 ms

Loss rate: 0.92%

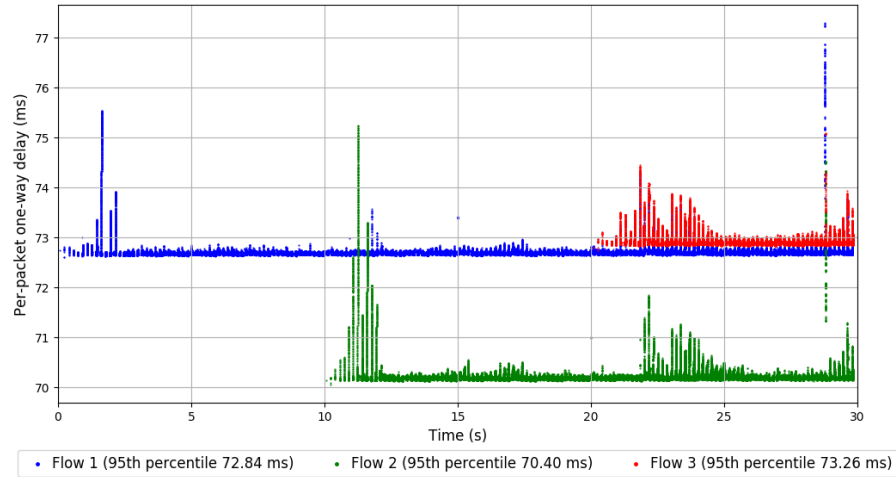
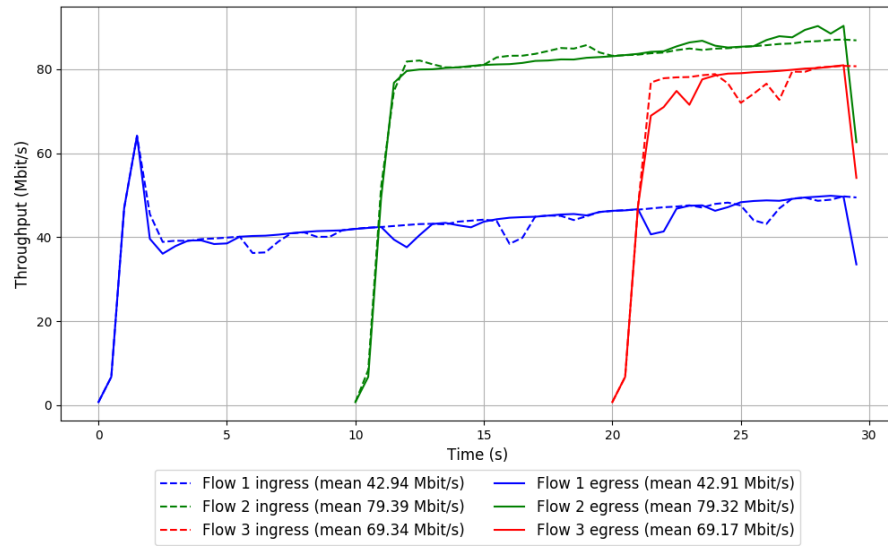
-- Flow 3:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 73.259 ms

Loss rate: 1.96%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 22:46:49

End at: 2017-12-11 22:47:19

Local clock offset: -0.225 ms

Remote clock offset: 9.195 ms

Below is generated by plot.py at 2017-12-12 03:15:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.96 Mbit/s

95th percentile per-packet one-way delay: 71.916 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 82.06 Mbit/s

95th percentile per-packet one-way delay: 70.672 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 47.44 Mbit/s

95th percentile per-packet one-way delay: 71.970 ms

Loss rate: 0.94%

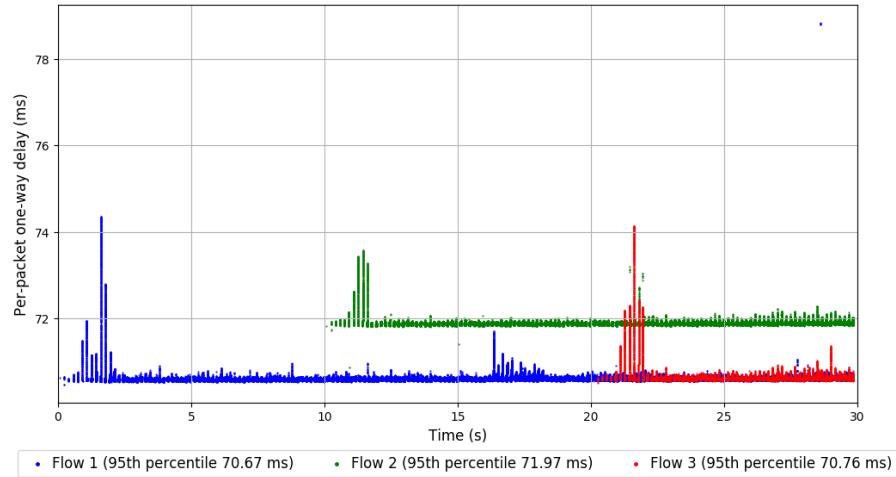
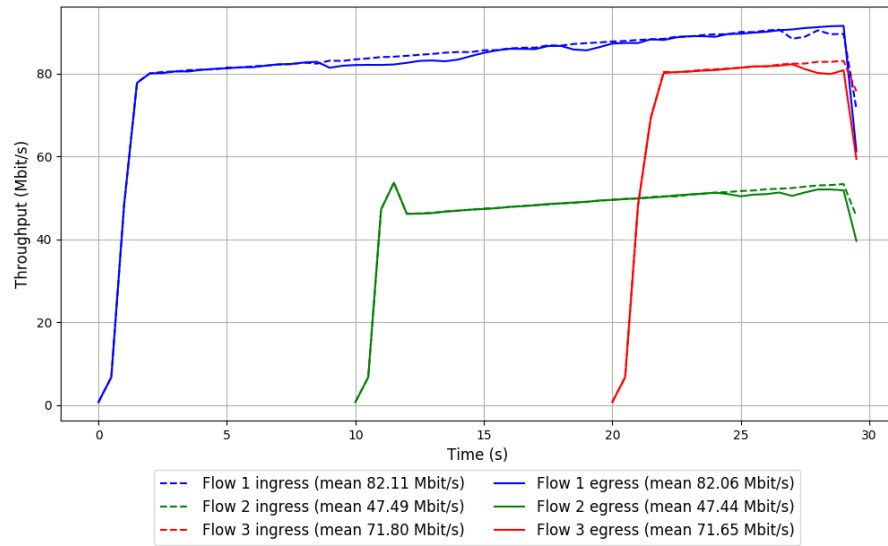
-- Flow 3:

Average throughput: 71.65 Mbit/s

95th percentile per-packet one-way delay: 70.762 ms

Loss rate: 1.87%

Run 9: Report of TCP Vegas — Data Link

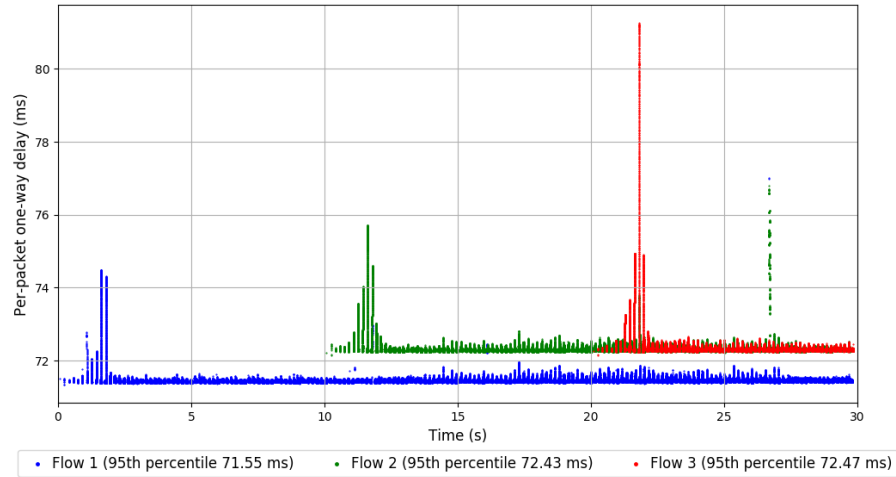
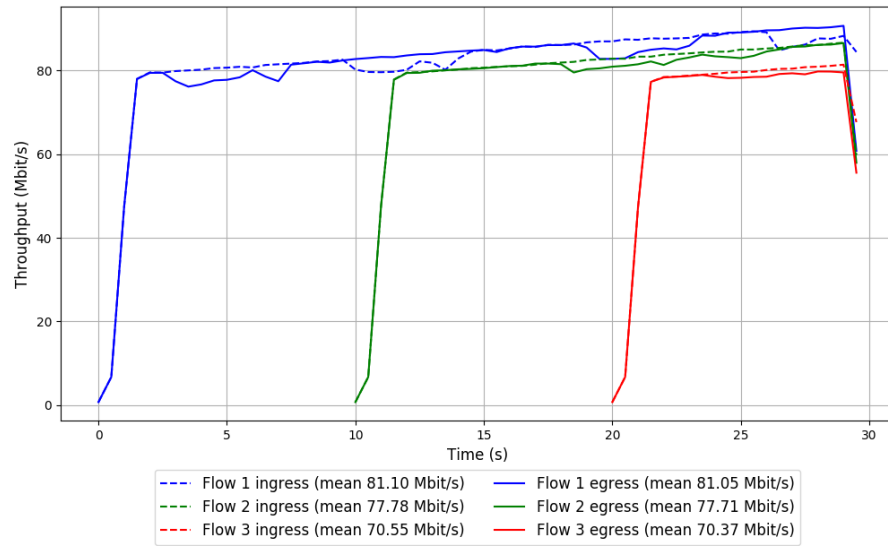


Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 23:06:50
End at: 2017-12-11 23:07:20
Local clock offset: -0.251 ms
Remote clock offset: 10.101 ms

Below is generated by plot.py at 2017-12-12 03:15:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.58 Mbit/s
95th percentile per-packet one-way delay: 72.382 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 71.546 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 77.71 Mbit/s
95th percentile per-packet one-way delay: 72.429 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 70.37 Mbit/s
95th percentile per-packet one-way delay: 72.465 ms
Loss rate: 1.94%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

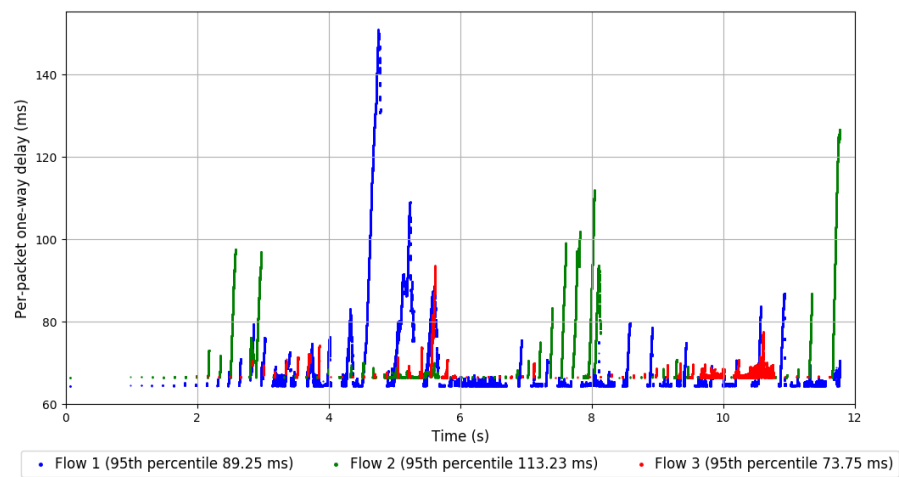
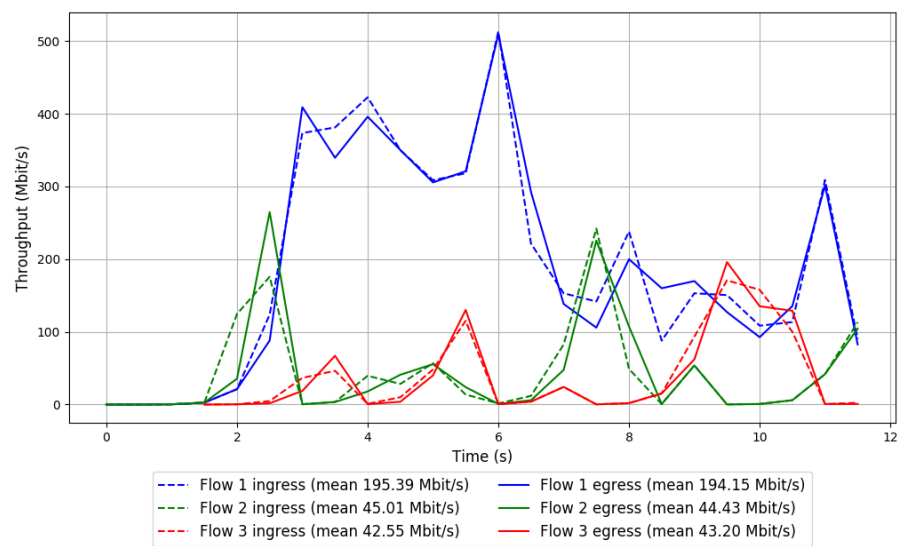
Start at: 2017-12-11 20:01:00

End at: 2017-12-11 20:01:30

Local clock offset: -0.044 ms

Remote clock offset: 16.276 ms

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 20:21:02

End at: 2017-12-11 20:21:32

Local clock offset: 0.03 ms

Remote clock offset: 6.778 ms

Below is generated by plot.py at 2017-12-12 03:17:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.90 Mbit/s

95th percentile per-packet one-way delay: 85.567 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 208.13 Mbit/s

95th percentile per-packet one-way delay: 81.057 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 90.370 ms

Loss rate: 2.15%

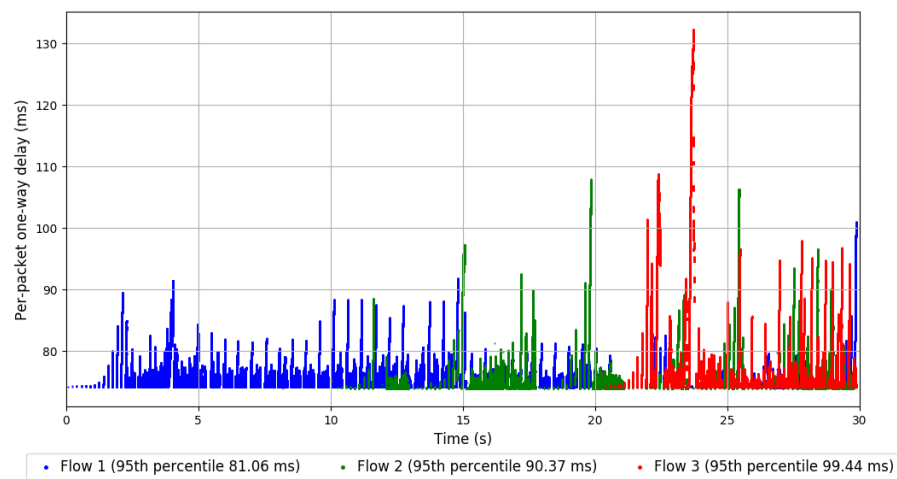
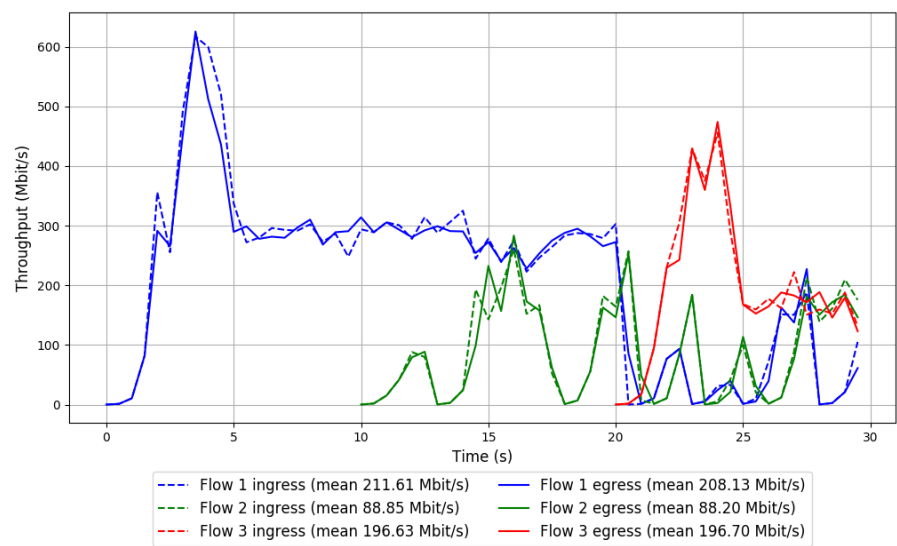
-- Flow 3:

Average throughput: 196.70 Mbit/s

95th percentile per-packet one-way delay: 99.442 ms

Loss rate: 0.64%

Run 2: Report of Verus — Data Link

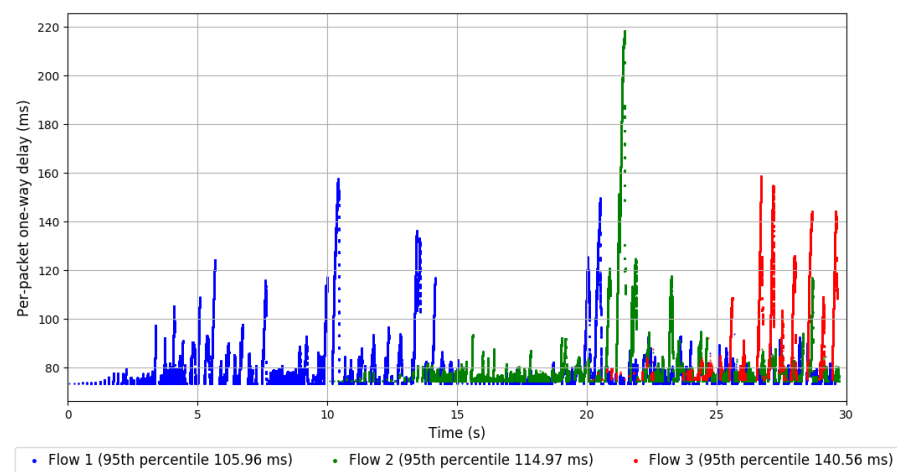
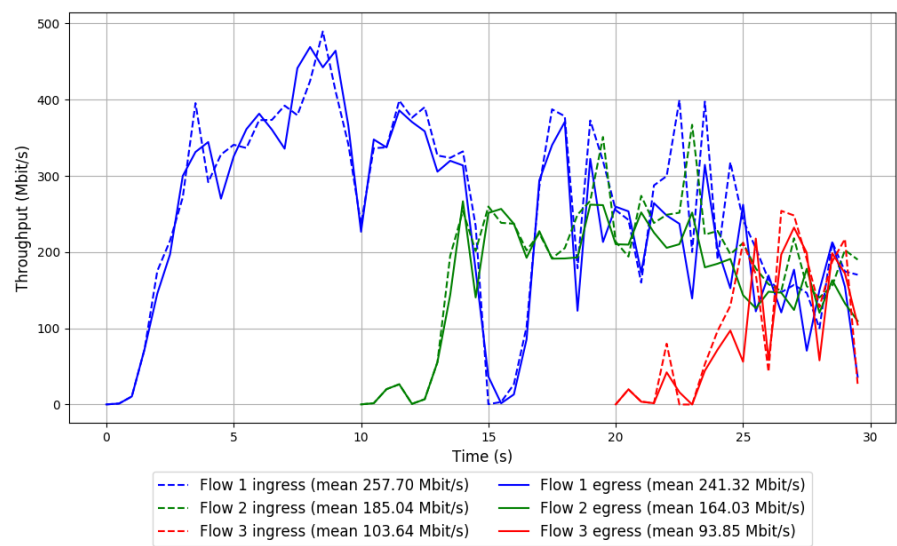


Run 3: Statistics of Verus

Start at: 2017-12-11 20:41:13
End at: 2017-12-11 20:41:43
Local clock offset: -0.057 ms
Remote clock offset: 5.326 ms

Below is generated by plot.py at 2017-12-12 03:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 379.87 Mbit/s
95th percentile per-packet one-way delay: 115.174 ms
Loss rate: 9.51%
-- Flow 1:
Average throughput: 241.32 Mbit/s
95th percentile per-packet one-way delay: 105.957 ms
Loss rate: 7.47%
-- Flow 2:
Average throughput: 164.03 Mbit/s
95th percentile per-packet one-way delay: 114.972 ms
Loss rate: 12.76%
-- Flow 3:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 140.558 ms
Loss rate: 13.15%

Run 3: Report of Verus — Data Link

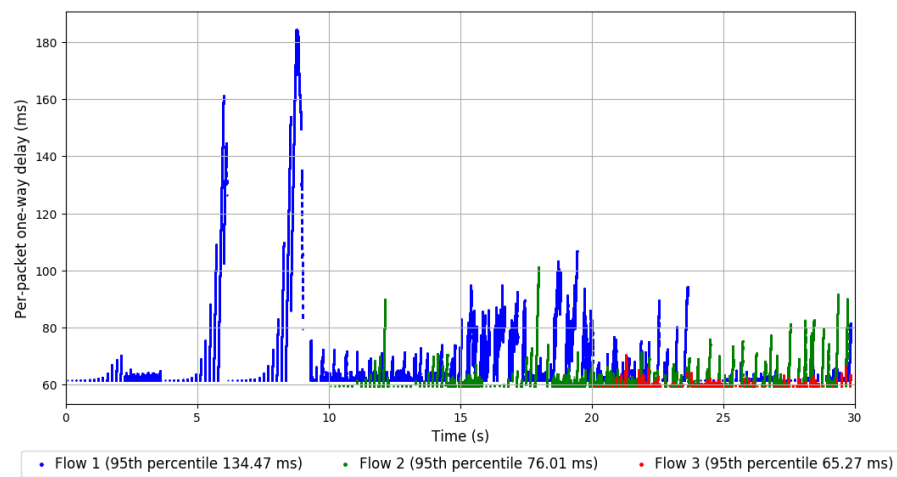
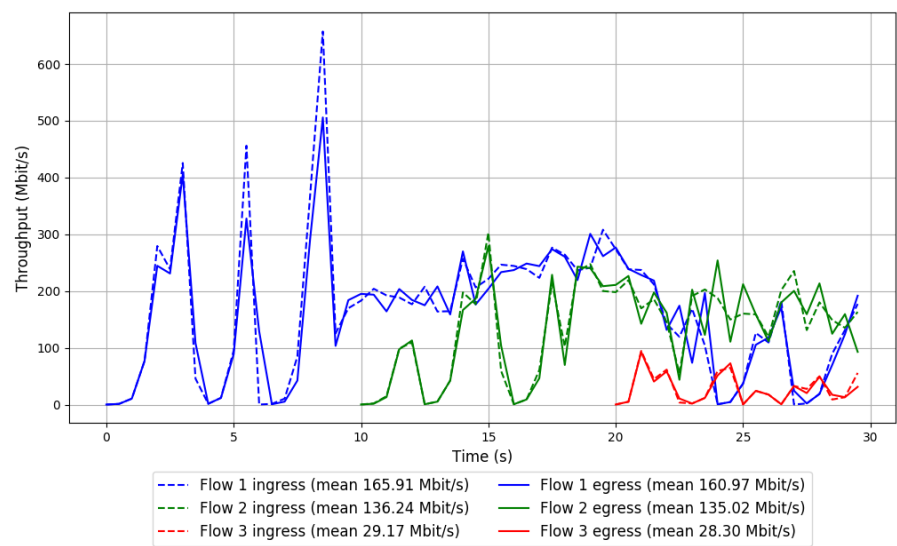


Run 4: Statistics of Verus

Start at: 2017-12-11 21:01:51
End at: 2017-12-11 21:02:21
Local clock offset: -0.036 ms
Remote clock offset: 18.33 ms

Below is generated by plot.py at 2017-12-12 03:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.92 Mbit/s
95th percentile per-packet one-way delay: 106.504 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 160.97 Mbit/s
95th percentile per-packet one-way delay: 134.470 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 135.02 Mbit/s
95th percentile per-packet one-way delay: 76.012 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 65.269 ms
Loss rate: 4.65%

Run 4: Report of Verus — Data Link

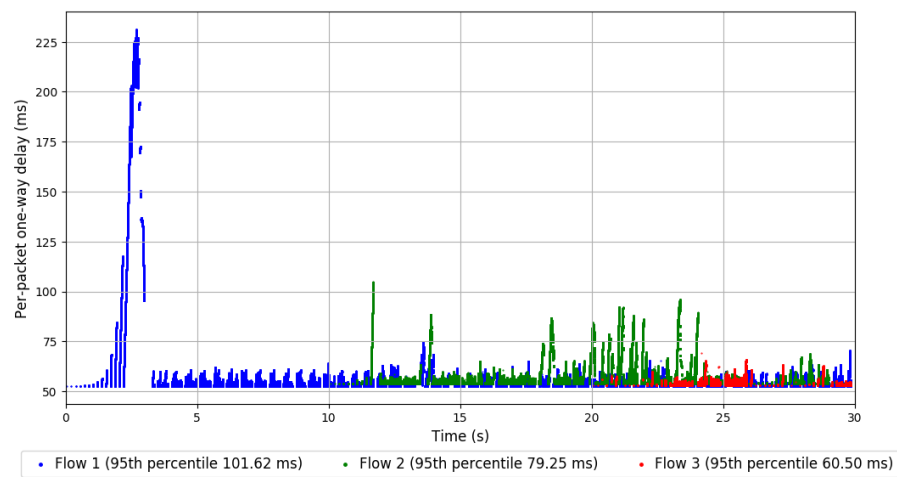
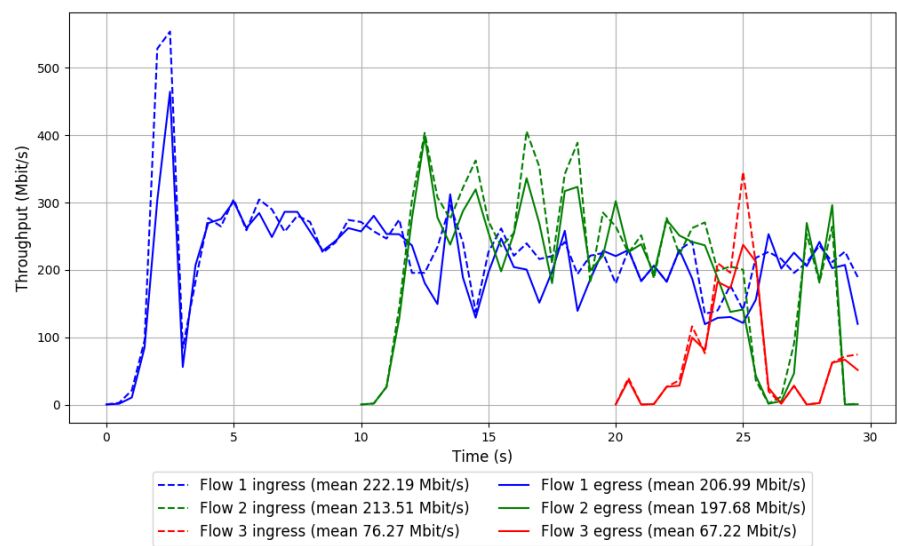


Run 5: Statistics of Verus

Start at: 2017-12-11 21:21:51
End at: 2017-12-11 21:22:21
Local clock offset: -0.091 ms
Remote clock offset: 25.231 ms

Below is generated by plot.py at 2017-12-12 03:18:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.69 Mbit/s
95th percentile per-packet one-way delay: 79.749 ms
Loss rate: 8.05%
-- Flow 1:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 101.621 ms
Loss rate: 7.35%
-- Flow 2:
Average throughput: 197.68 Mbit/s
95th percentile per-packet one-way delay: 79.247 ms
Loss rate: 8.20%
-- Flow 3:
Average throughput: 67.22 Mbit/s
95th percentile per-packet one-way delay: 60.496 ms
Loss rate: 13.32%

Run 5: Report of Verus — Data Link

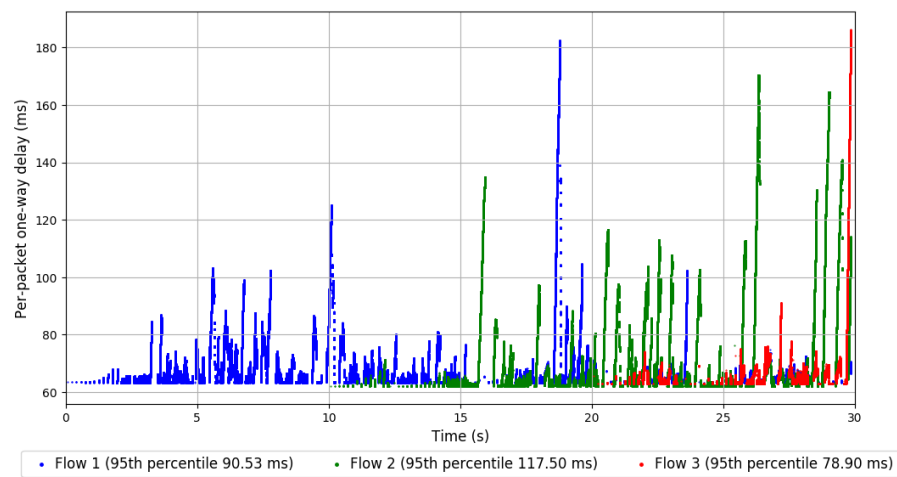
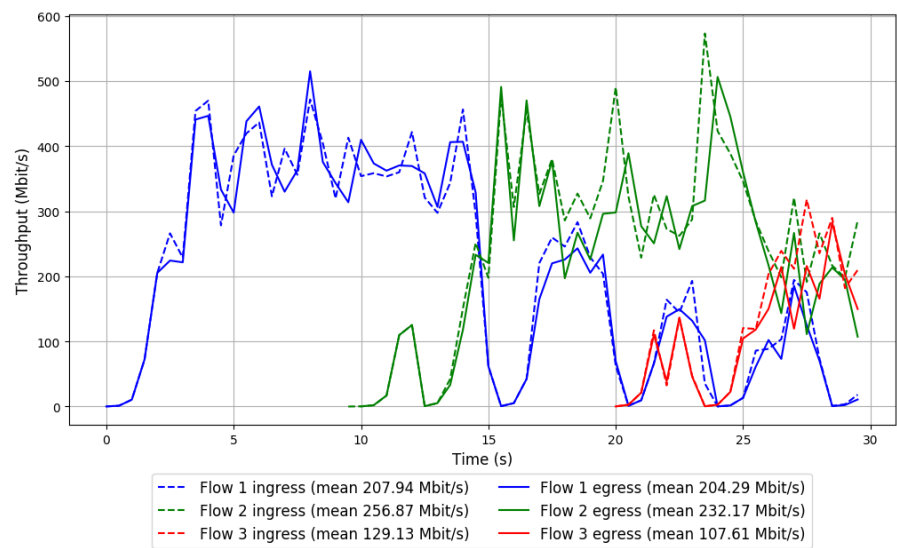


Run 6: Statistics of Verus

Start at: 2017-12-11 21:42:01
End at: 2017-12-11 21:42:31
Local clock offset: -0.089 ms
Remote clock offset: 17.59 ms

Below is generated by plot.py at 2017-12-12 03:19:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 393.88 Mbit/s
95th percentile per-packet one-way delay: 103.787 ms
Loss rate: 6.81%
-- Flow 1:
Average throughput: 204.29 Mbit/s
95th percentile per-packet one-way delay: 90.526 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 232.17 Mbit/s
95th percentile per-packet one-way delay: 117.497 ms
Loss rate: 10.00%
-- Flow 3:
Average throughput: 107.61 Mbit/s
95th percentile per-packet one-way delay: 78.897 ms
Loss rate: 16.18%

Run 6: Report of Verus — Data Link

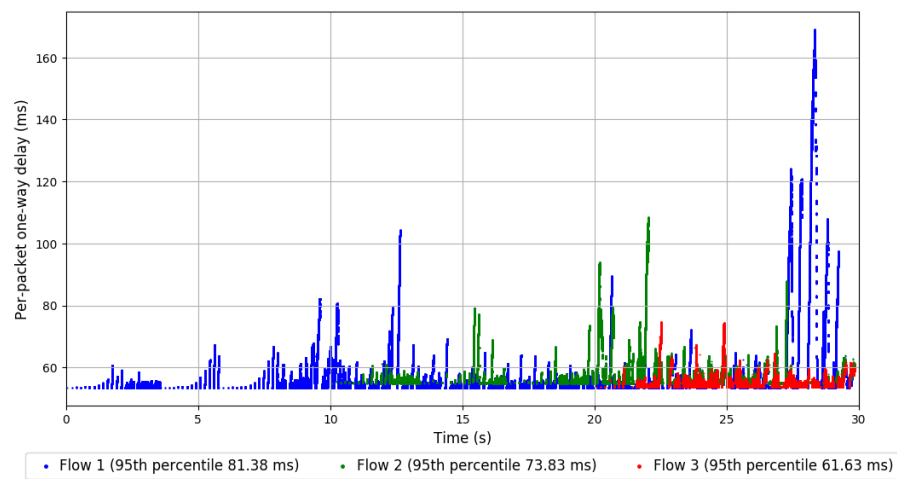
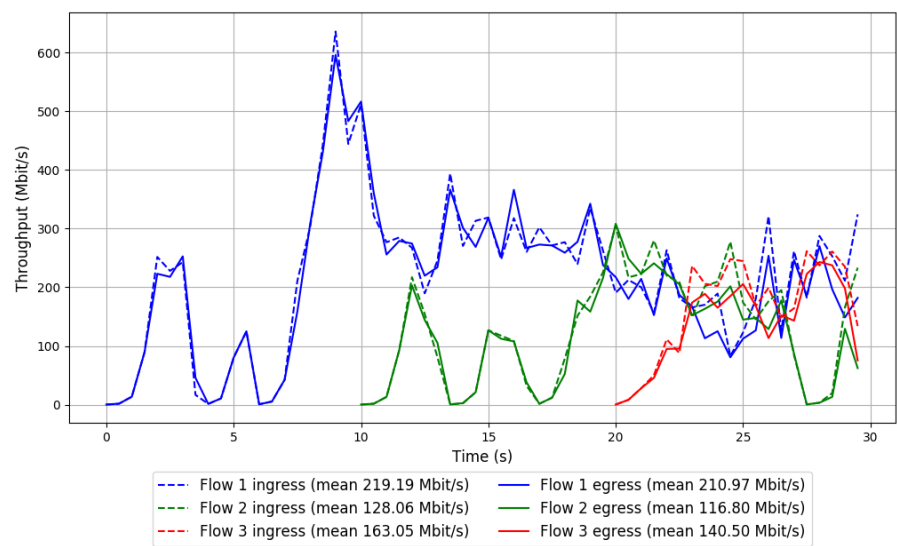


Run 7: Statistics of Verus

Start at: 2017-12-11 22:02:18
End at: 2017-12-11 22:02:48
Local clock offset: -0.131 ms
Remote clock offset: 24.557 ms

Below is generated by plot.py at 2017-12-12 03:19:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.18 Mbit/s
95th percentile per-packet one-way delay: 76.302 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 210.97 Mbit/s
95th percentile per-packet one-way delay: 81.376 ms
Loss rate: 4.48%
-- Flow 2:
Average throughput: 116.80 Mbit/s
95th percentile per-packet one-way delay: 73.830 ms
Loss rate: 9.56%
-- Flow 3:
Average throughput: 140.50 Mbit/s
95th percentile per-packet one-way delay: 61.633 ms
Loss rate: 15.08%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 22:22:27

End at: 2017-12-11 22:22:57

Local clock offset: -0.165 ms

Remote clock offset: 8.596 ms

Below is generated by plot.py at 2017-12-12 03:19:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 84.862 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 134.54 Mbit/s

95th percentile per-packet one-way delay: 79.840 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 128.07 Mbit/s

95th percentile per-packet one-way delay: 89.001 ms

Loss rate: 3.07%

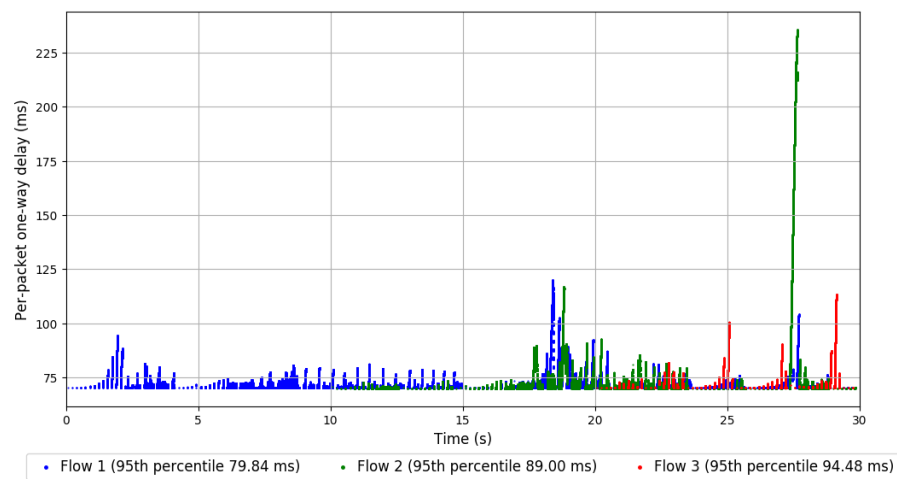
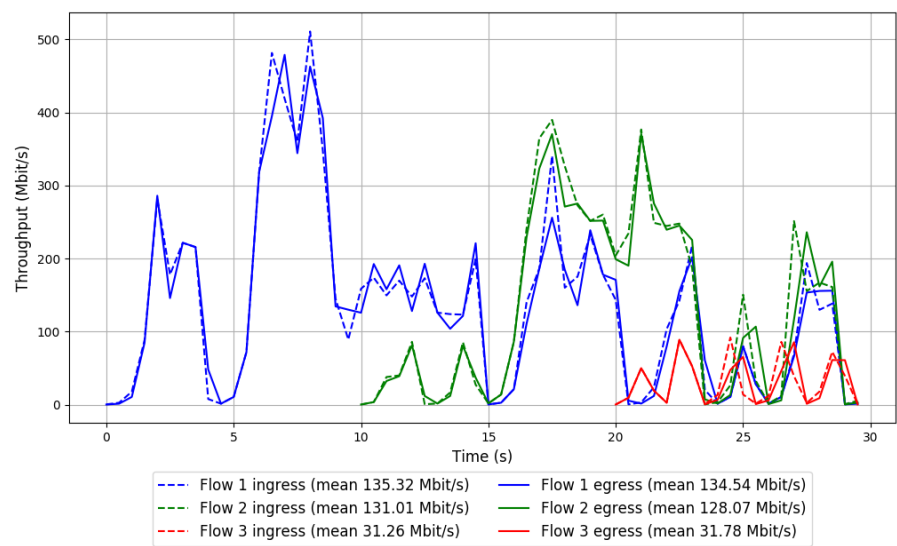
-- Flow 3:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 94.481 ms

Loss rate: 0.06%

Run 8: Report of Verus — Data Link

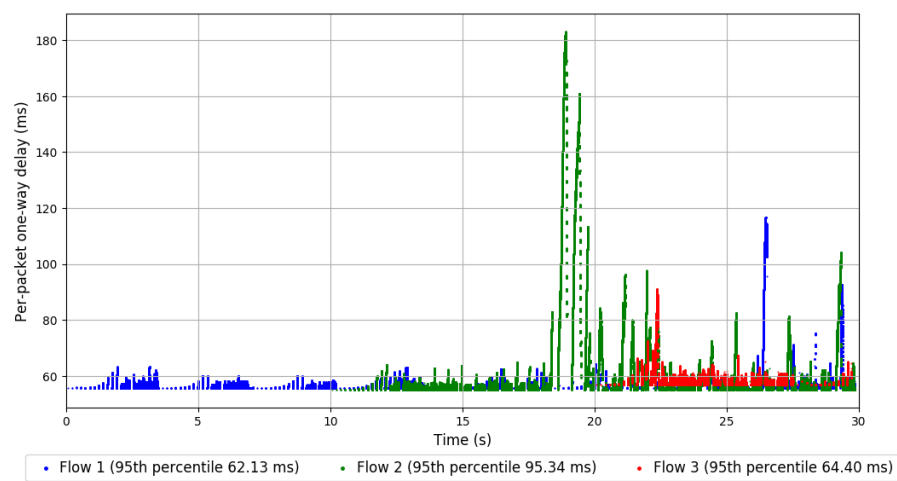
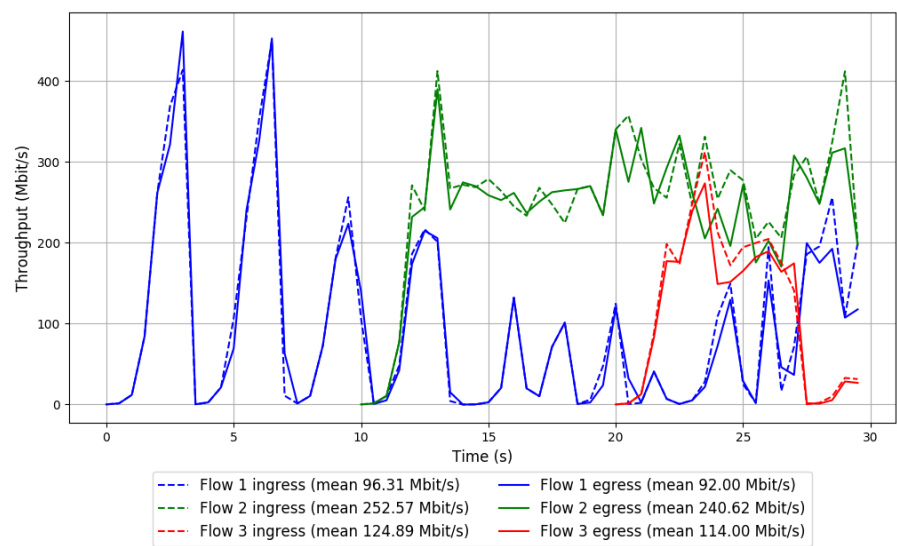


Run 9: Statistics of Verus

Start at: 2017-12-11 22:42:23
End at: 2017-12-11 22:42:53
Local clock offset: -0.221 ms
Remote clock offset: 25.477 ms

Below is generated by plot.py at 2017-12-12 03:19:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.74 Mbit/s
95th percentile per-packet one-way delay: 83.321 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 92.00 Mbit/s
95th percentile per-packet one-way delay: 62.127 ms
Loss rate: 4.70%
-- Flow 2:
Average throughput: 240.62 Mbit/s
95th percentile per-packet one-way delay: 95.343 ms
Loss rate: 4.91%
-- Flow 3:
Average throughput: 114.00 Mbit/s
95th percentile per-packet one-way delay: 64.398 ms
Loss rate: 8.69%

Run 9: Report of Verus — Data Link

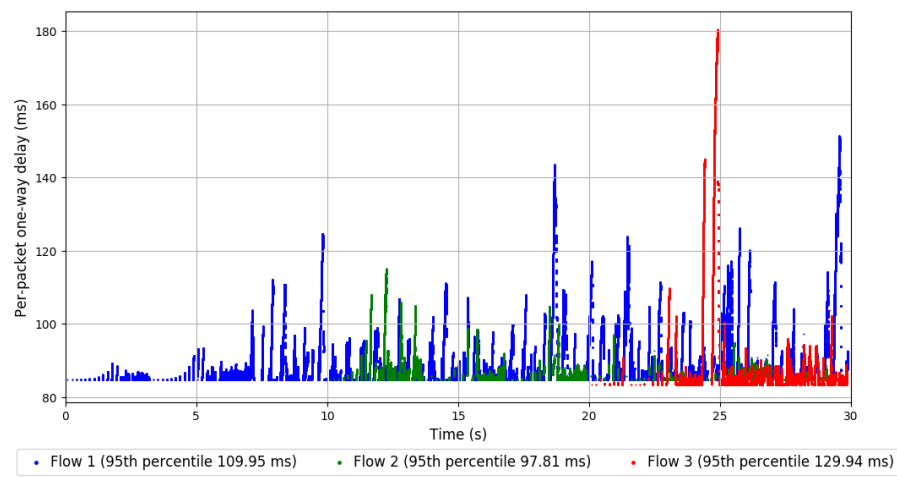
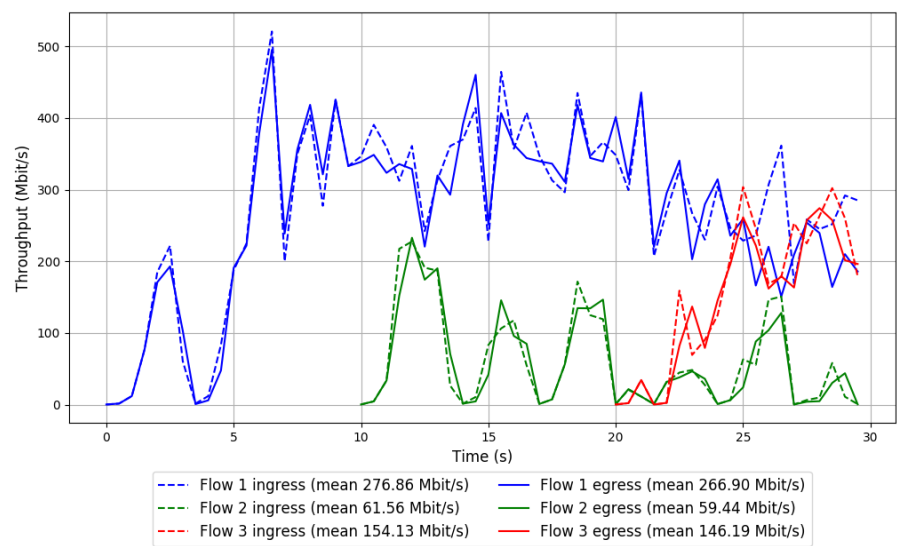


Run 10: Statistics of Verus

Start at: 2017-12-11 23:02:19
End at: 2017-12-11 23:02:49
Local clock offset: -0.368 ms
Remote clock offset: -2.097 ms

Below is generated by plot.py at 2017-12-12 03:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 353.95 Mbit/s
95th percentile per-packet one-way delay: 109.492 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 266.90 Mbit/s
95th percentile per-packet one-way delay: 109.954 ms
Loss rate: 4.14%
-- Flow 2:
Average throughput: 59.44 Mbit/s
95th percentile per-packet one-way delay: 97.805 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 146.19 Mbit/s
95th percentile per-packet one-way delay: 129.945 ms
Loss rate: 6.93%

Run 10: Report of Verus — Data Link

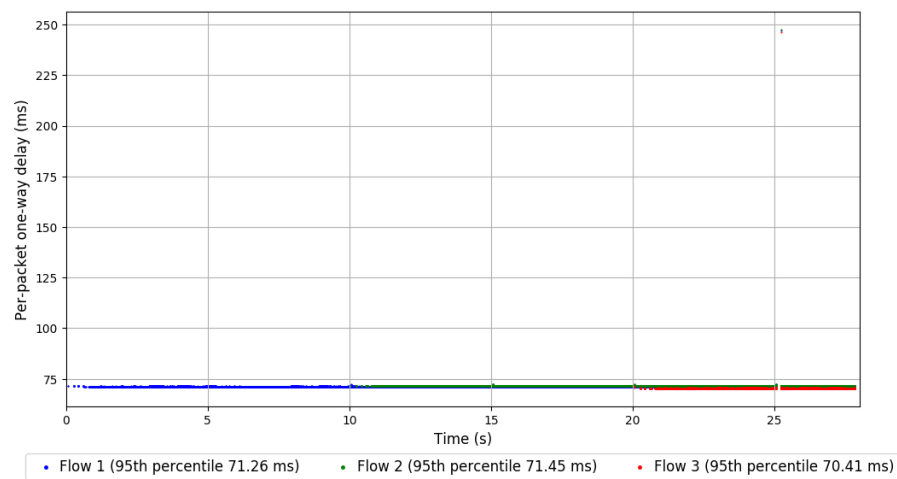
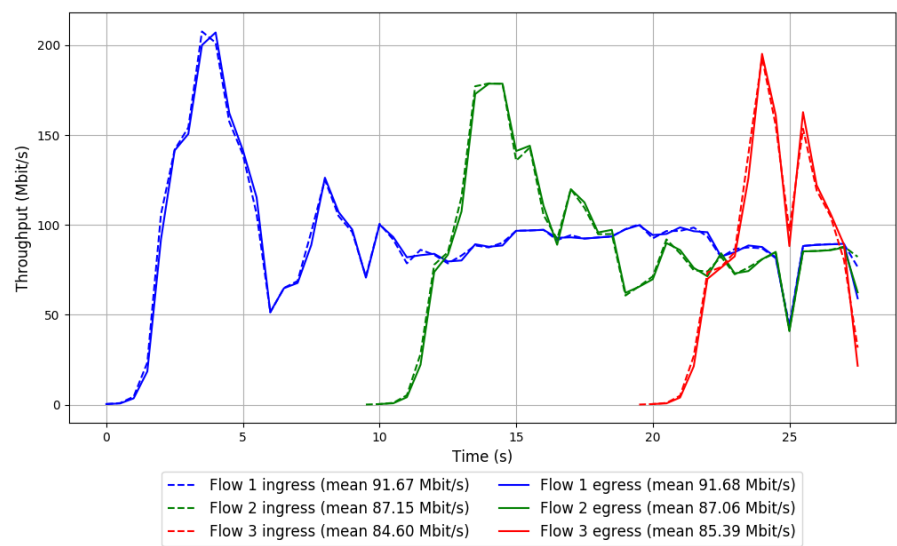


Run 1: Statistics of Copa

Start at: 2017-12-11 19:58:15
End at: 2017-12-11 19:58:45
Local clock offset: -0.044 ms
Remote clock offset: 12.302 ms

Below is generated by plot.py at 2017-12-12 03:22:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.35 Mbit/s
95th percentile per-packet one-way delay: 71.433 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 71.260 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 71.446 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 85.39 Mbit/s
95th percentile per-packet one-way delay: 70.406 ms
Loss rate: 1.17%

Run 1: Report of Copa — Data Link

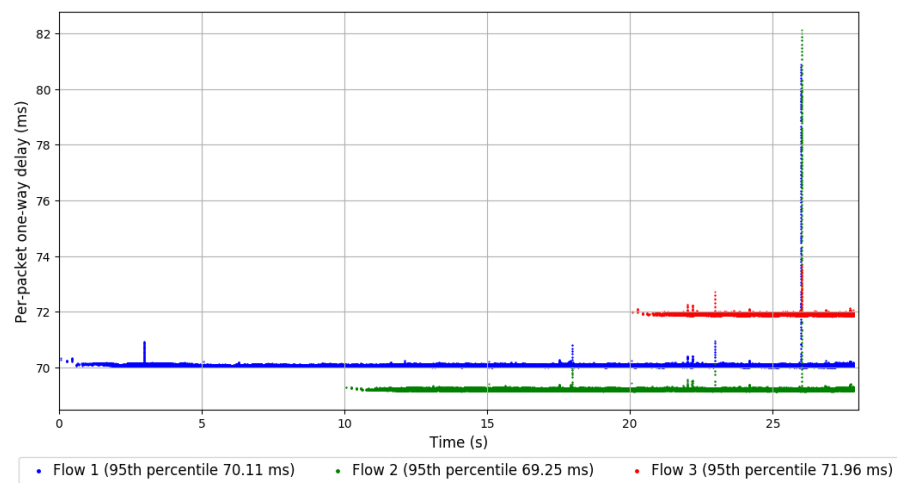
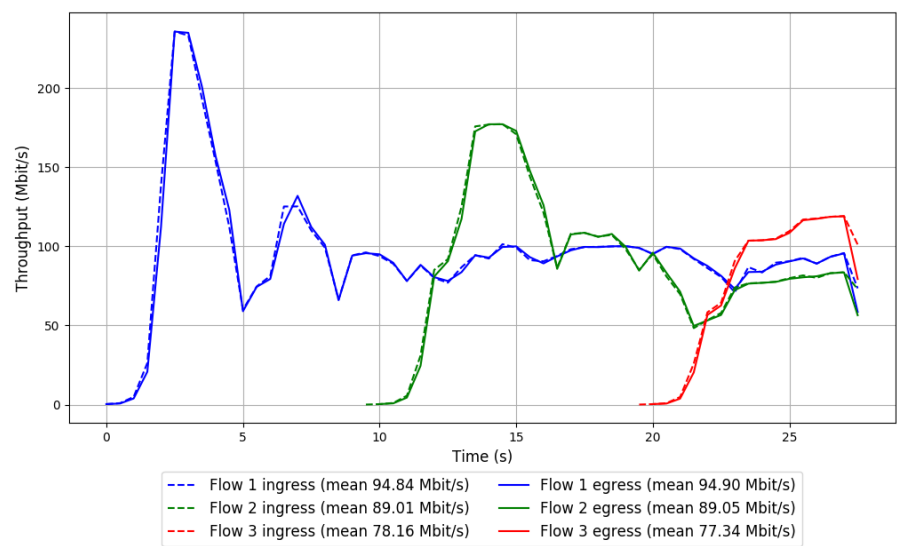


Run 2: Statistics of Copa

Start at: 2017-12-11 20:18:18
End at: 2017-12-11 20:18:48
Local clock offset: -0.074 ms
Remote clock offset: 10.751 ms

Below is generated by plot.py at 2017-12-12 03:22:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 173.58 Mbit/s
95th percentile per-packet one-way delay: 71.922 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 70.115 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 69.253 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 77.34 Mbit/s
95th percentile per-packet one-way delay: 71.957 ms
Loss rate: 3.14%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 20:38:28

End at: 2017-12-11 20:38:58

Local clock offset: -0.067 ms

Remote clock offset: 5.657 ms

Below is generated by plot.py at 2017-12-12 03:23:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.05 Mbit/s

95th percentile per-packet one-way delay: 75.844 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 75.852 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 89.41 Mbit/s

95th percentile per-packet one-way delay: 73.134 ms

Loss rate: 0.80%

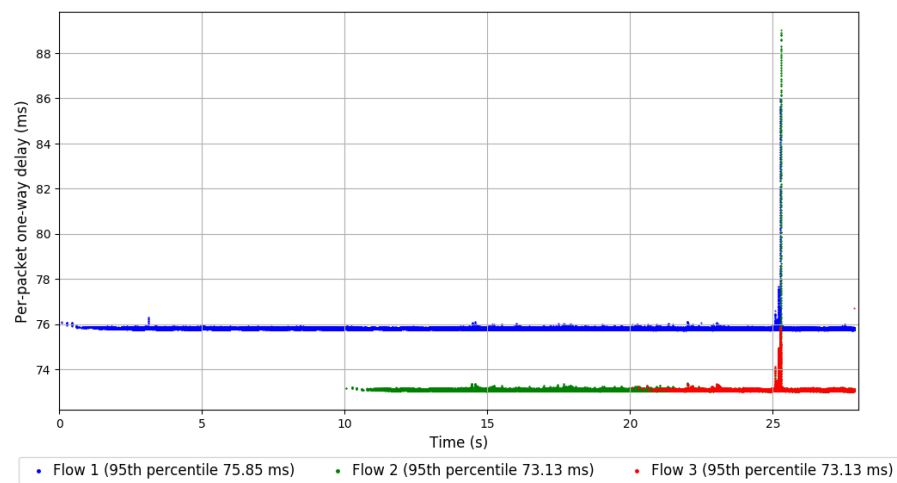
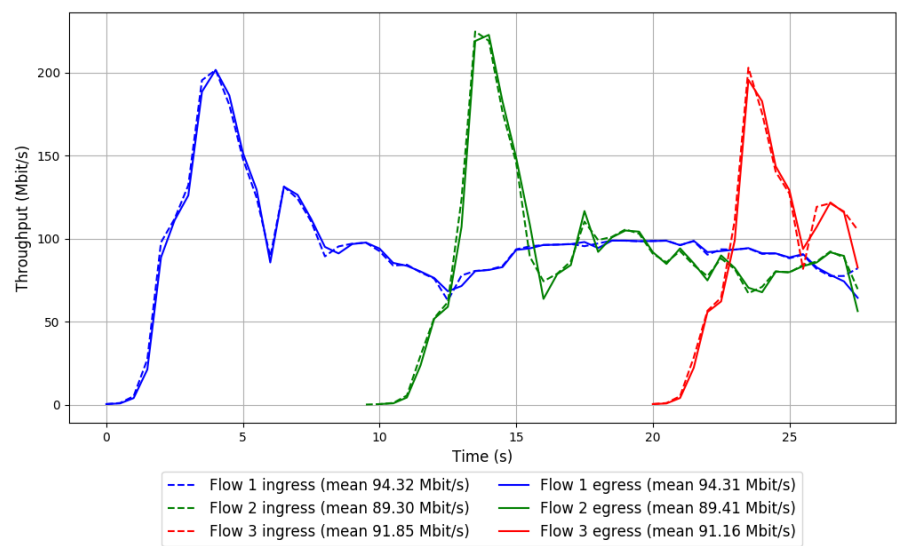
-- Flow 3:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 73.127 ms

Loss rate: 2.78%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 20:59:06

End at: 2017-12-11 20:59:36

Local clock offset: -0.004 ms

Remote clock offset: 19.52 ms

Below is generated by plot.py at 2017-12-12 03:23:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.57 Mbit/s

95th percentile per-packet one-way delay: 58.600 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 90.16 Mbit/s

95th percentile per-packet one-way delay: 58.214 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 83.43 Mbit/s

95th percentile per-packet one-way delay: 58.614 ms

Loss rate: 1.03%

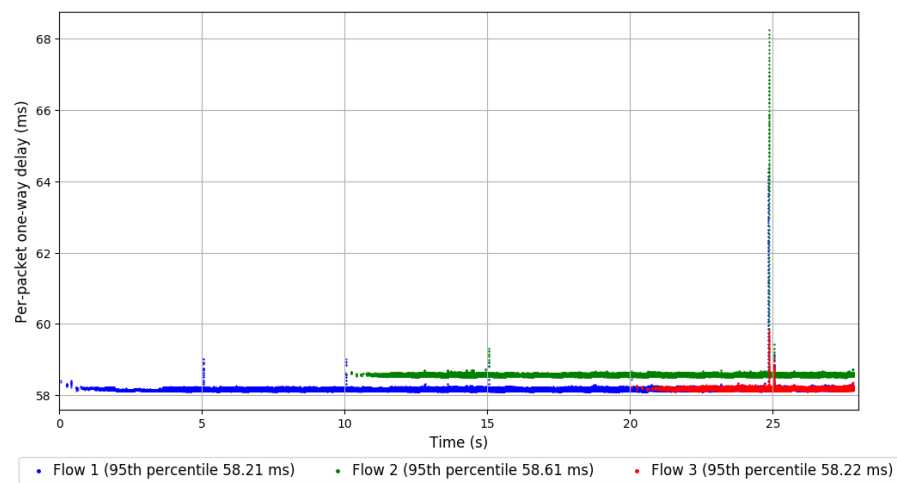
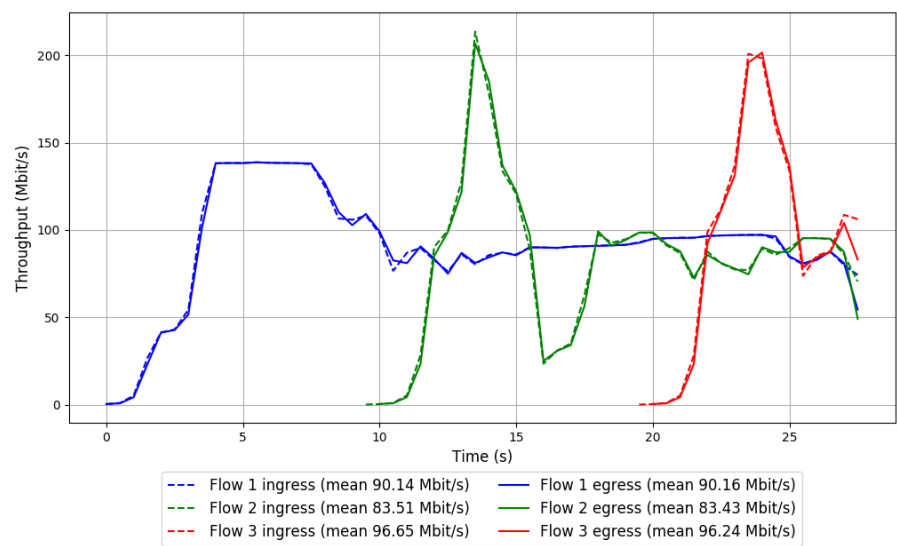
-- Flow 3:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 58.223 ms

Loss rate: 2.50%

Run 4: Report of Copa — Data Link

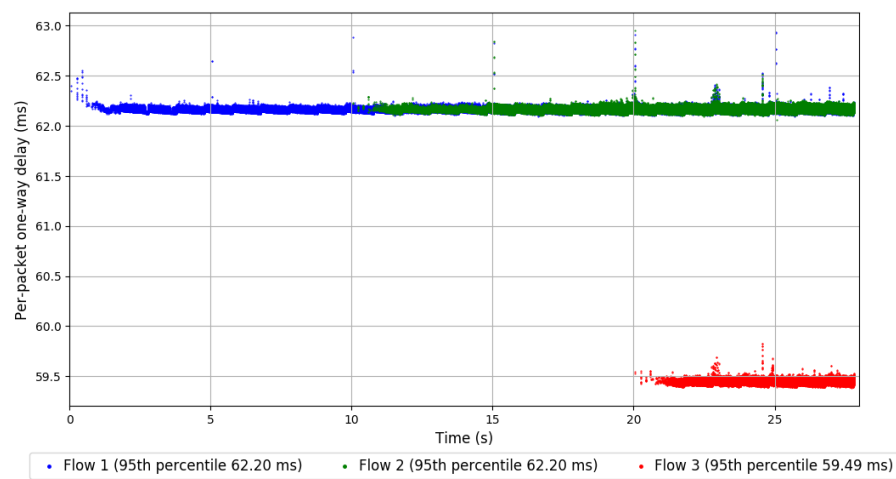
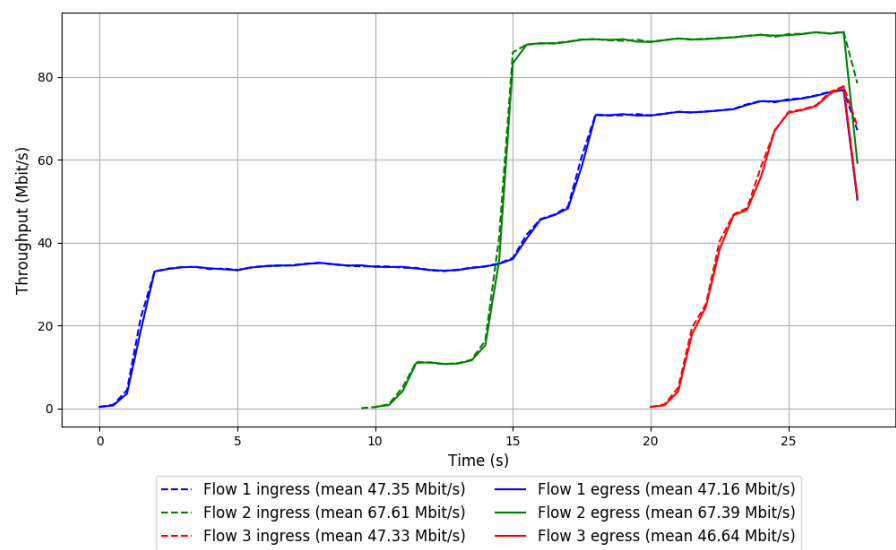


Run 5: Statistics of Copa

Start at: 2017-12-11 21:19:12
End at: 2017-12-11 21:19:42
Local clock offset: -0.077 ms
Remote clock offset: 18.755 ms

Below is generated by plot.py at 2017-12-12 03:23:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 103.38 Mbit/s
95th percentile per-packet one-way delay: 62.199 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 47.16 Mbit/s
95th percentile per-packet one-way delay: 62.197 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 62.204 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 59.488 ms
Loss rate: 3.53%

Run 5: Report of Copa — Data Link

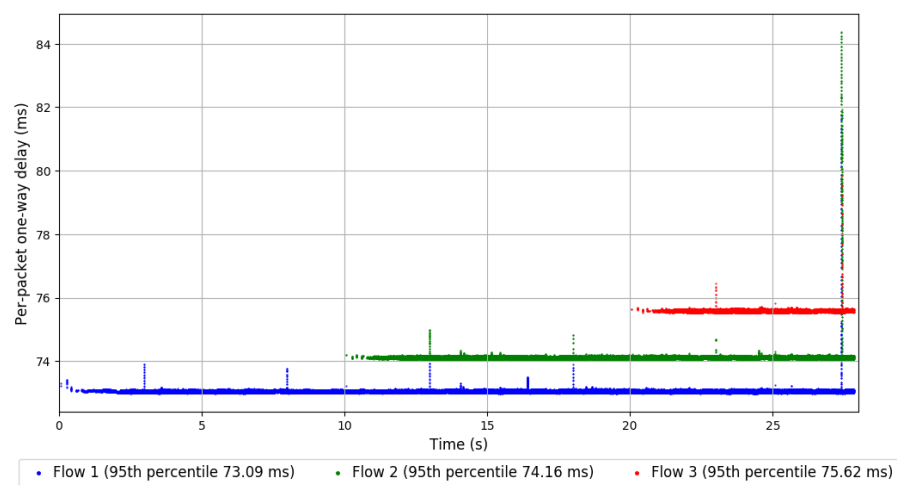
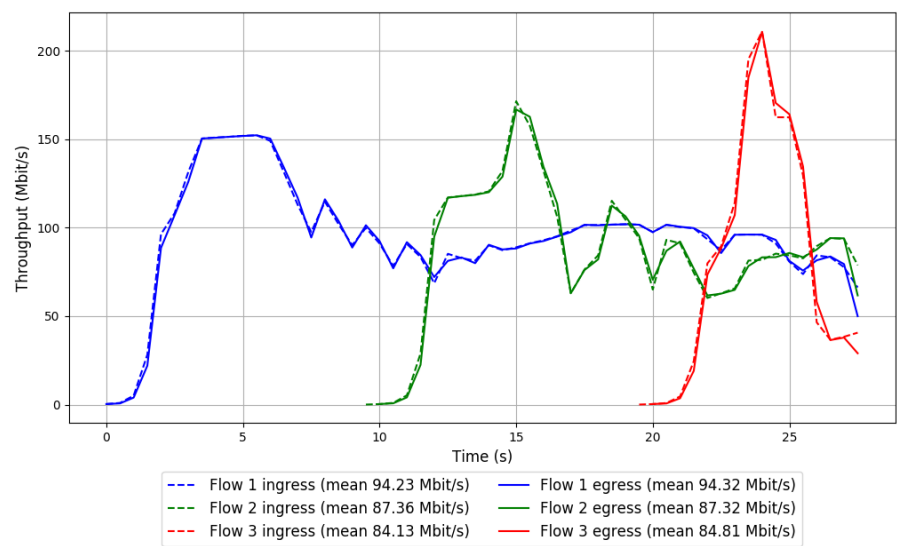


Run 6: Statistics of Copa

Start at: 2017-12-11 21:39:15
End at: 2017-12-11 21:39:45
Local clock offset: -0.095 ms
Remote clock offset: 4.995 ms

Below is generated by plot.py at 2017-12-12 03:24:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 173.98 Mbit/s
95th percentile per-packet one-way delay: 75.592 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 73.090 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 87.32 Mbit/s
95th percentile per-packet one-way delay: 74.155 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 75.622 ms
Loss rate: 1.32%

Run 6: Report of Copa — Data Link

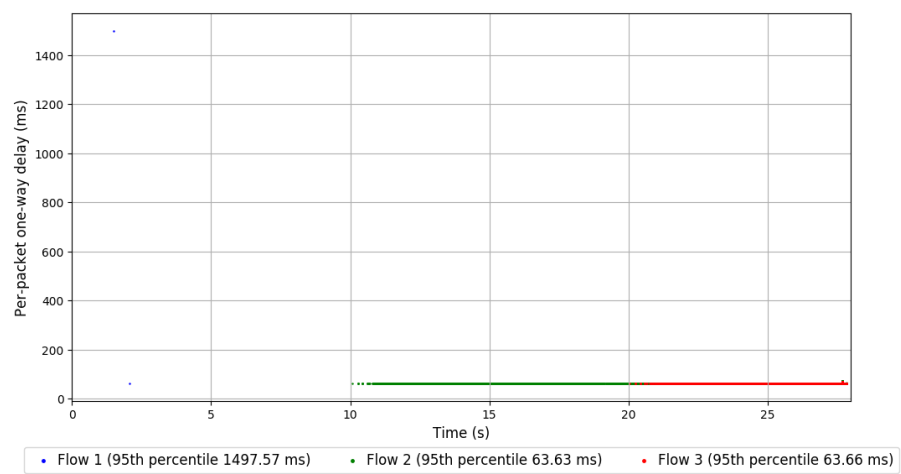
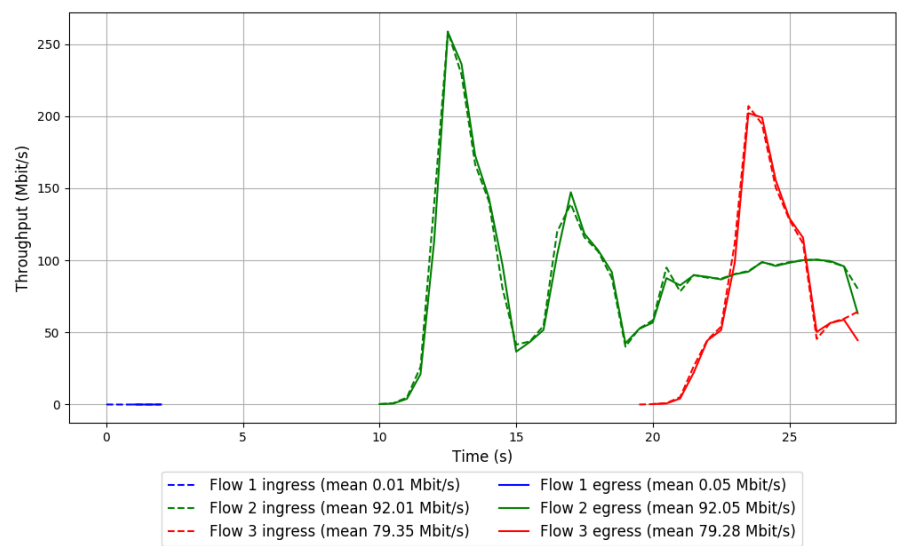


Run 7: Statistics of Copa

Start at: 2017-12-11 21:59:41
End at: 2017-12-11 22:00:11
Local clock offset: -0.102 ms
Remote clock offset: 15.758 ms

Below is generated by plot.py at 2017-12-12 03:24:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1497.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 79.28 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 2.20%

Run 7: Report of Copa — Data Link

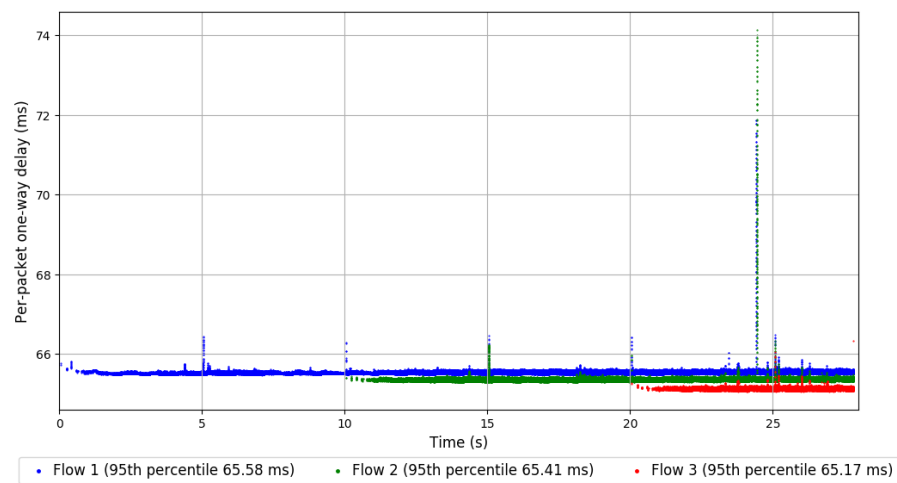
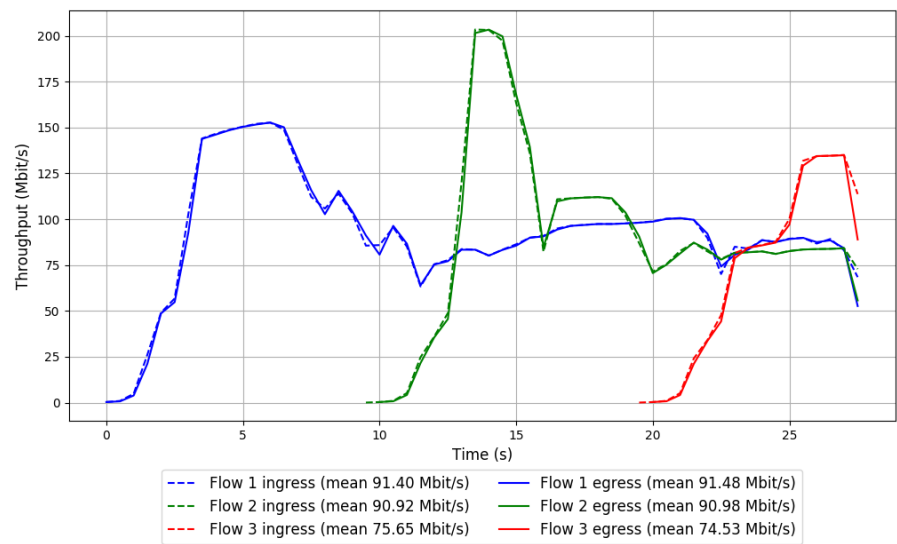


Run 8: Statistics of Copa

Start at: 2017-12-11 22:19:42
End at: 2017-12-11 22:20:12
Local clock offset: -0.145 ms
Remote clock offset: 14.761 ms

Below is generated by plot.py at 2017-12-12 03:26:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 170.62 Mbit/s
95th percentile per-packet one-way delay: 65.575 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 65.583 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 90.98 Mbit/s
95th percentile per-packet one-way delay: 65.405 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 74.53 Mbit/s
95th percentile per-packet one-way delay: 65.169 ms
Loss rate: 3.53%

Run 8: Report of Copa — Data Link

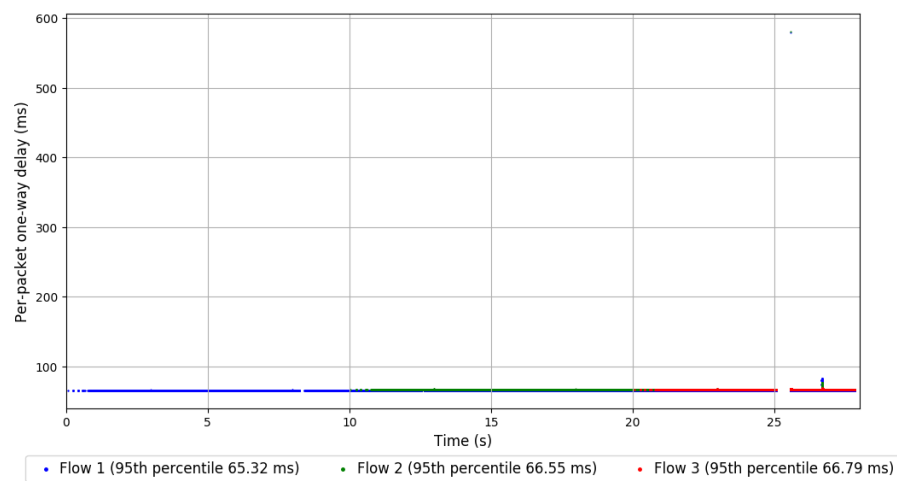
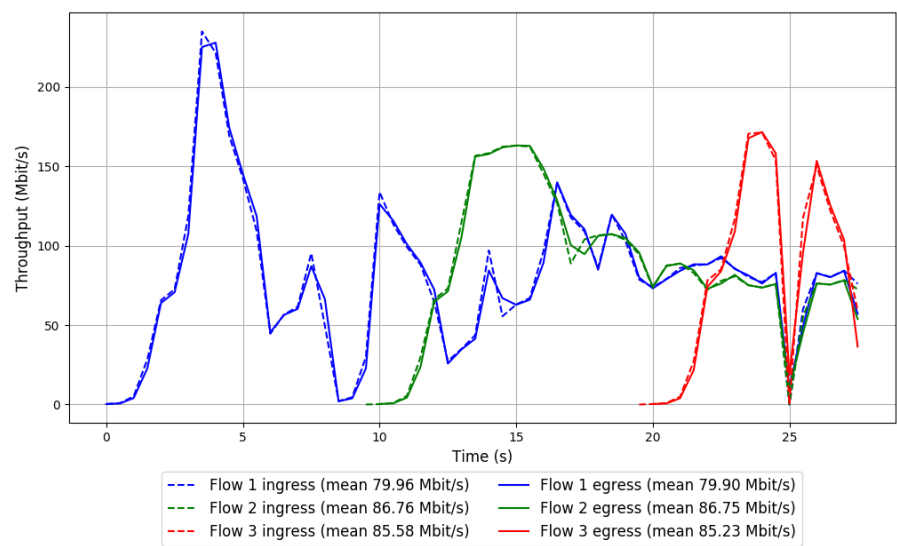


Run 9: Statistics of Copa

Start at: 2017-12-11 22:39:39
End at: 2017-12-11 22:40:09
Local clock offset: -0.208 ms
Remote clock offset: 14.017 ms

Below is generated by plot.py at 2017-12-12 03:26:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.32 Mbit/s
95th percentile per-packet one-way delay: 66.763 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 79.90 Mbit/s
95th percentile per-packet one-way delay: 65.319 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 66.547 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 66.792 ms
Loss rate: 2.50%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 22:59:35

End at: 2017-12-11 23:00:05

Local clock offset: -0.282 ms

Remote clock offset: 2.315 ms

Below is generated by plot.py at 2017-12-12 03:26:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.86 Mbit/s

95th percentile per-packet one-way delay: 80.790 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 80.799 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 80.607 ms

Loss rate: 1.94%

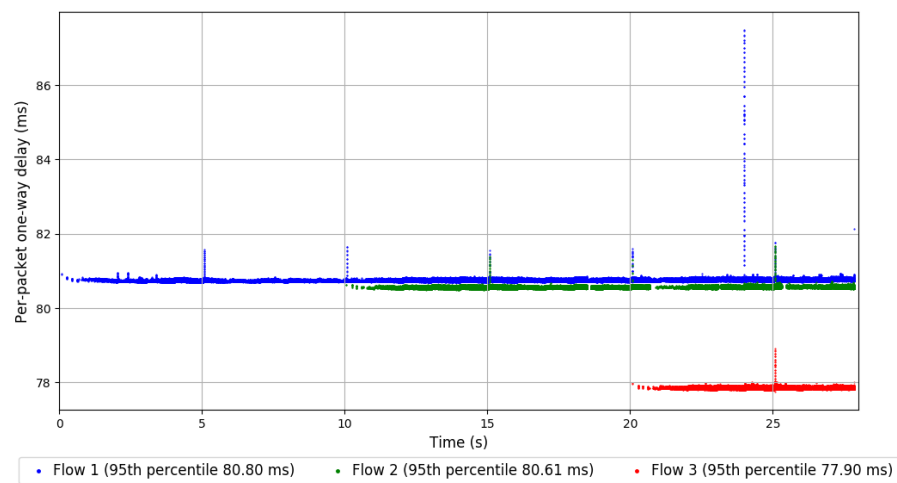
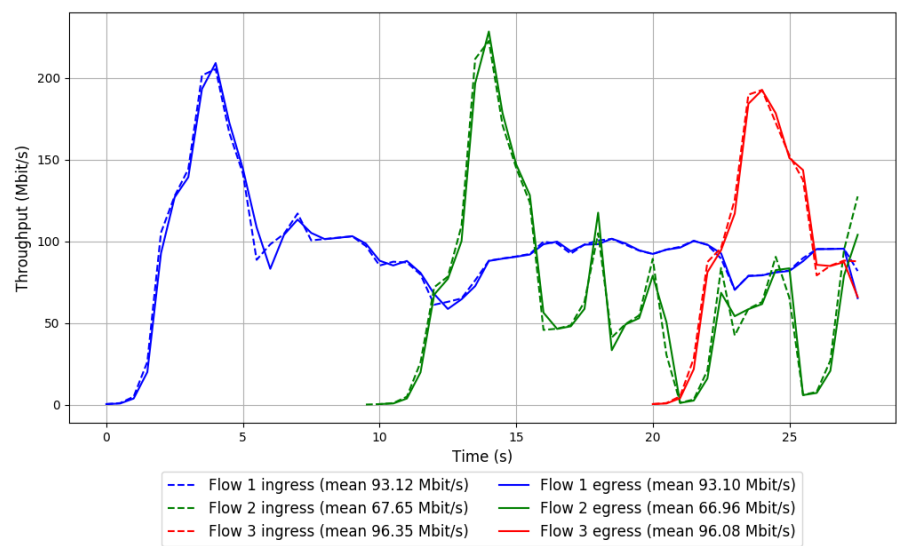
-- Flow 3:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 77.902 ms

Loss rate: 2.36%

Run 10: Report of Copa — Data Link

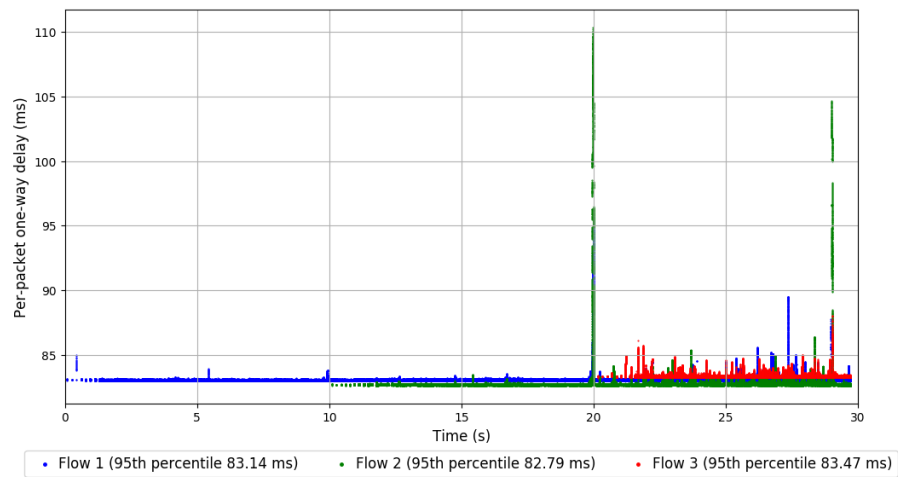
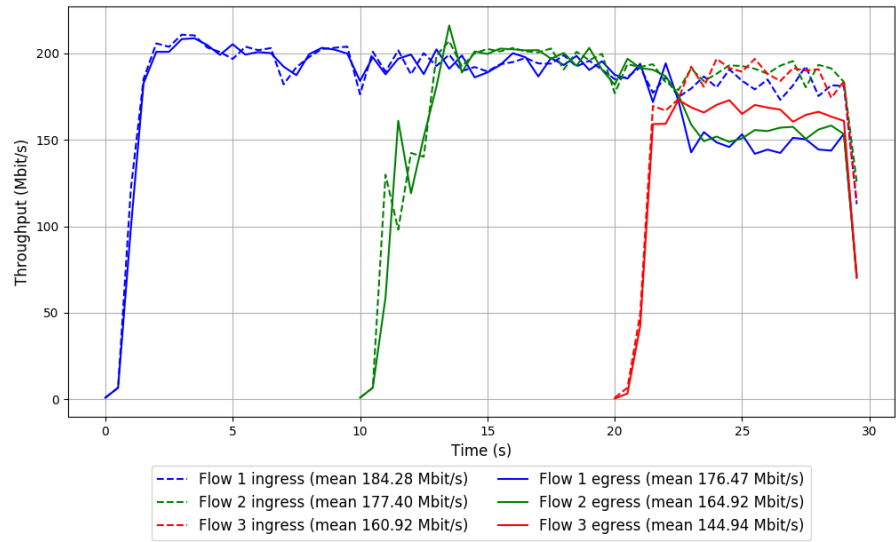


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 20:03:40
End at: 2017-12-11 20:04:10
Local clock offset: -0.005 ms
Remote clock offset: -0.881 ms

# Below is generated by plot.py at 2017-12-12 03:27:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.37 Mbit/s
95th percentile per-packet one-way delay: 83.374 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 176.47 Mbit/s
95th percentile per-packet one-way delay: 83.136 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 164.92 Mbit/s
95th percentile per-packet one-way delay: 82.786 ms
Loss rate: 7.82%
-- Flow 3:
Average throughput: 144.94 Mbit/s
95th percentile per-packet one-way delay: 83.472 ms
Loss rate: 11.48%
```


Run 1: Report of Indigo — Data Link

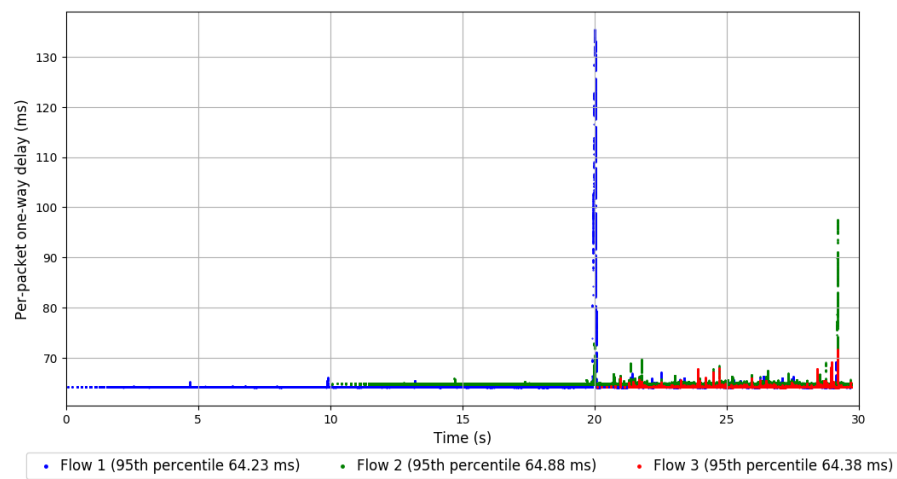
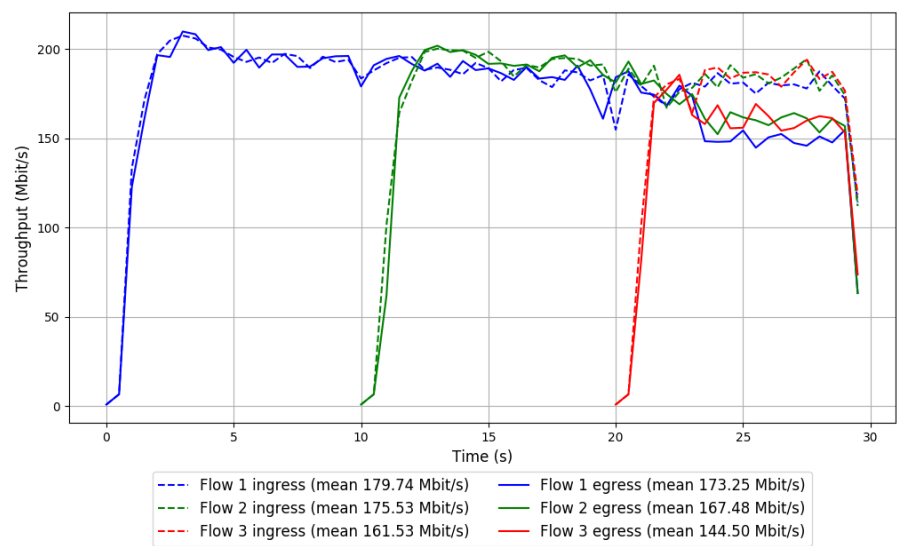


Run 2: Statistics of Indigo

Start at: 2017-12-11 20:23:53
End at: 2017-12-11 20:24:23
Local clock offset: -0.038 ms
Remote clock offset: 16.804 ms

Below is generated by plot.py at 2017-12-12 03:27:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 330.94 Mbit/s
95th percentile per-packet one-way delay: 64.842 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 173.25 Mbit/s
95th percentile per-packet one-way delay: 64.228 ms
Loss rate: 4.15%
-- Flow 2:
Average throughput: 167.48 Mbit/s
95th percentile per-packet one-way delay: 64.875 ms
Loss rate: 5.39%
-- Flow 3:
Average throughput: 144.50 Mbit/s
95th percentile per-packet one-way delay: 64.383 ms
Loss rate: 12.06%

Run 2: Report of Indigo — Data Link

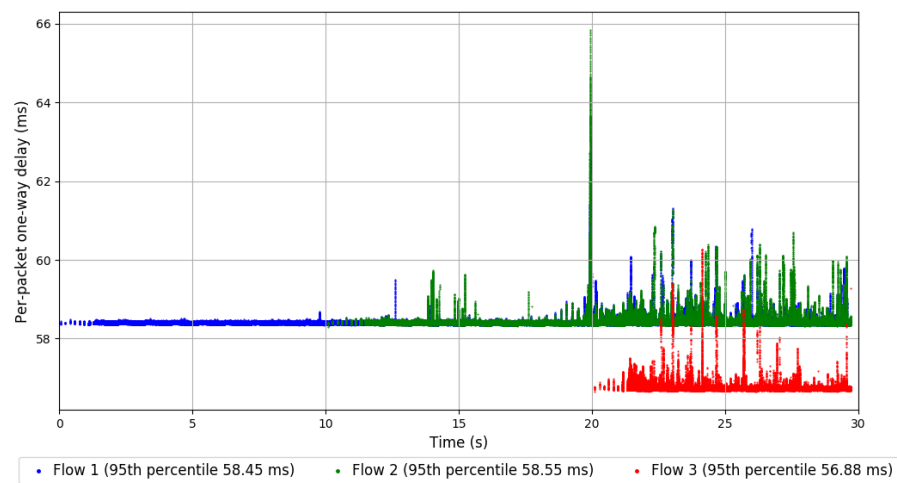
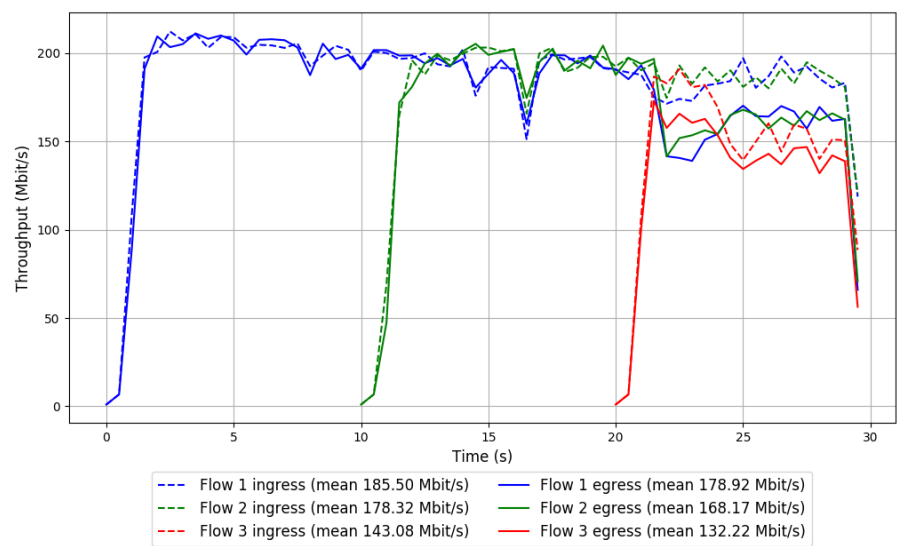


Run 3: Statistics of Indigo

Start at: 2017-12-11 20:44:10
End at: 2017-12-11 20:44:40
Local clock offset: 0.027 ms
Remote clock offset: 22.993 ms

```
# Below is generated by plot.py at 2017-12-12 03:28:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.95 Mbit/s
95th percentile per-packet one-way delay: 58.462 ms
Loss rate: 5.63%
-- Flow 1:
Average throughput: 178.92 Mbit/s
95th percentile per-packet one-way delay: 58.453 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 168.17 Mbit/s
95th percentile per-packet one-way delay: 58.550 ms
Loss rate: 6.58%
-- Flow 3:
Average throughput: 132.22 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 9.28%
```

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 21:04:39

End at: 2017-12-11 21:05:09

Local clock offset: -0.042 ms

Remote clock offset: 4.41 ms

Below is generated by plot.py at 2017-12-12 03:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.42 Mbit/s

95th percentile per-packet one-way delay: 75.400 ms

Loss rate: 6.84%

-- Flow 1:

Average throughput: 174.73 Mbit/s

95th percentile per-packet one-way delay: 75.014 ms

Loss rate: 3.86%

-- Flow 2:

Average throughput: 168.11 Mbit/s

95th percentile per-packet one-way delay: 75.444 ms

Loss rate: 6.43%

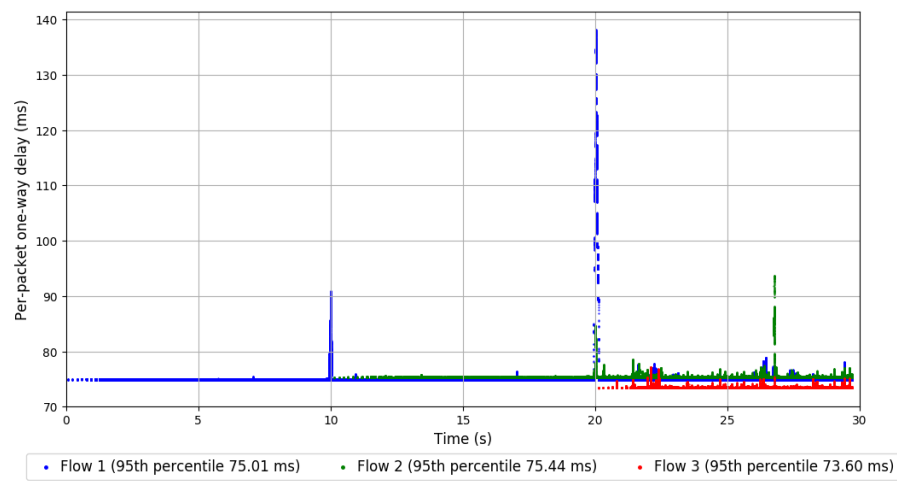
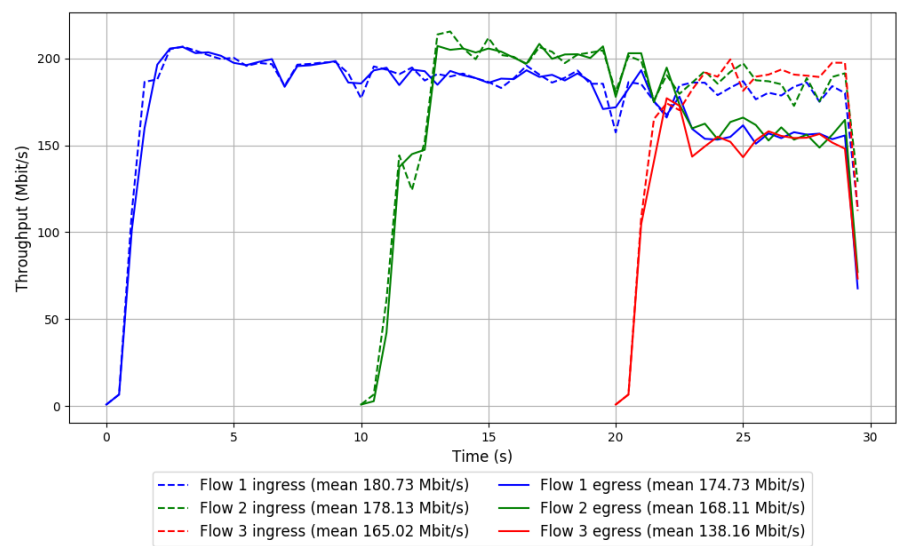
-- Flow 3:

Average throughput: 138.16 Mbit/s

95th percentile per-packet one-way delay: 73.598 ms

Loss rate: 17.71%

Run 4: Report of Indigo — Data Link

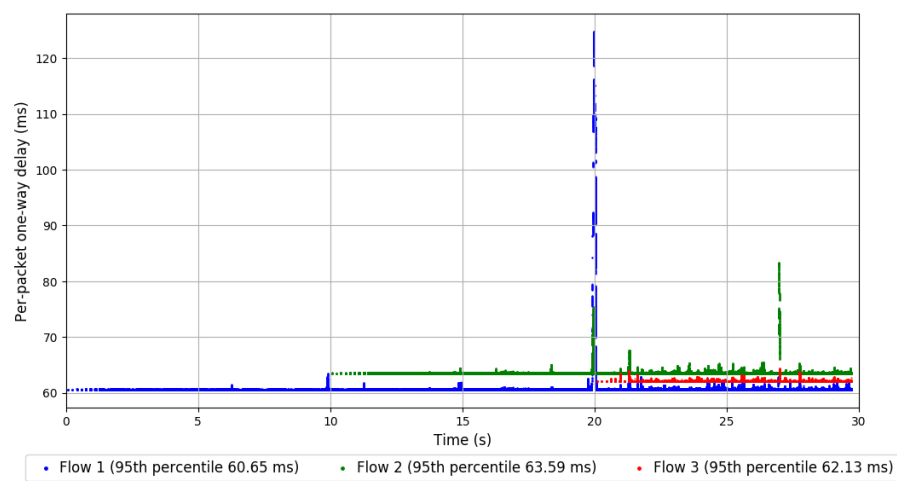
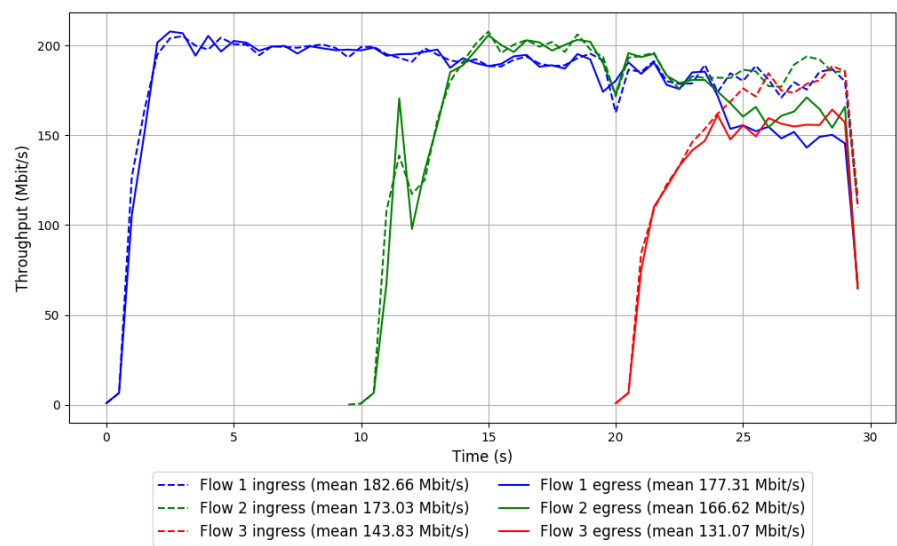


Run 5: Statistics of Indigo

Start at: 2017-12-11 21:24:47
End at: 2017-12-11 21:25:17
Local clock offset: -0.103 ms
Remote clock offset: 17.388 ms

Below is generated by plot.py at 2017-12-12 03:28:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 330.17 Mbit/s
95th percentile per-packet one-way delay: 63.547 ms
Loss rate: 4.78%
-- Flow 1:
Average throughput: 177.31 Mbit/s
95th percentile per-packet one-way delay: 60.653 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 166.62 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 4.53%
-- Flow 3:
Average throughput: 131.07 Mbit/s
95th percentile per-packet one-way delay: 62.132 ms
Loss rate: 10.42%

Run 5: Report of Indigo — Data Link

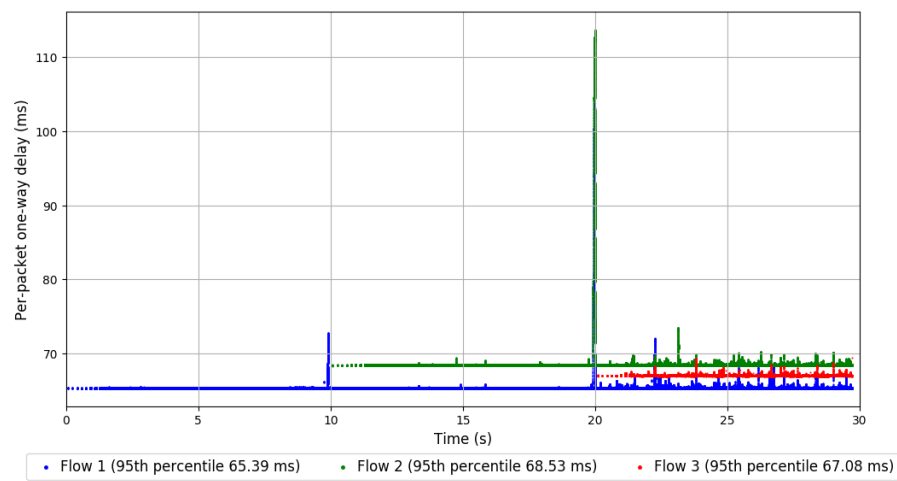
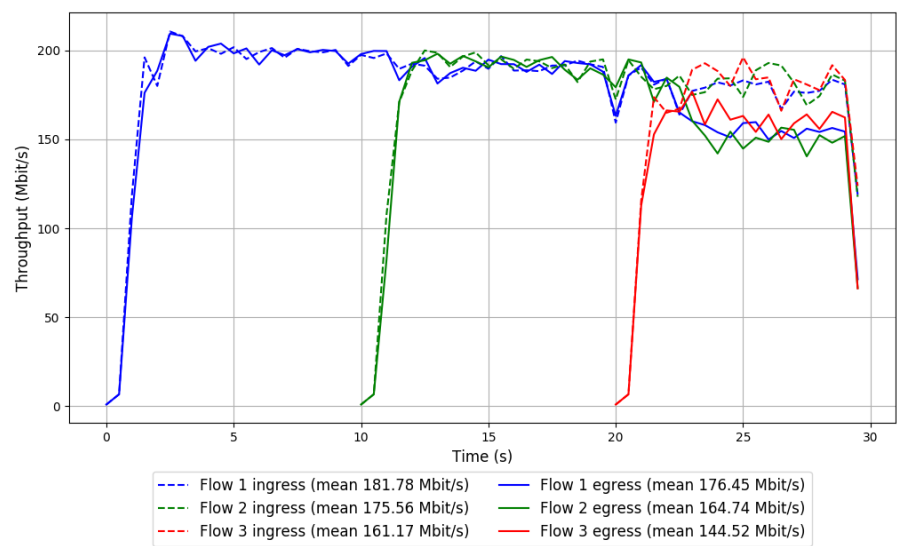


Run 6: Statistics of Indigo

Start at: 2017-12-11 21:44:58
End at: 2017-12-11 21:45:28
Local clock offset: -0.12 ms
Remote clock offset: 12.489 ms

Below is generated by plot.py at 2017-12-12 03:31:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.34 Mbit/s
95th percentile per-packet one-way delay: 68.472 ms
Loss rate: 5.89%
-- Flow 1:
Average throughput: 176.45 Mbit/s
95th percentile per-packet one-way delay: 65.394 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 164.74 Mbit/s
95th percentile per-packet one-way delay: 68.525 ms
Loss rate: 6.96%
-- Flow 3:
Average throughput: 144.52 Mbit/s
95th percentile per-packet one-way delay: 67.080 ms
Loss rate: 11.84%

Run 6: Report of Indigo — Data Link

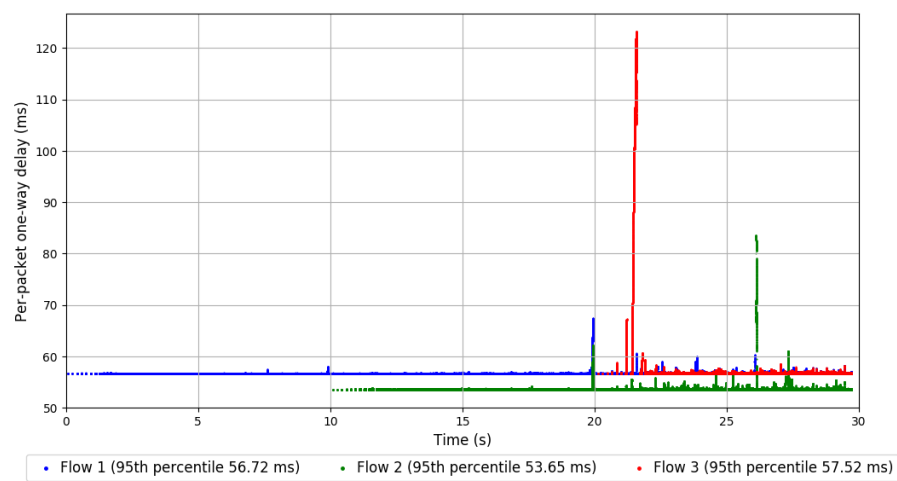
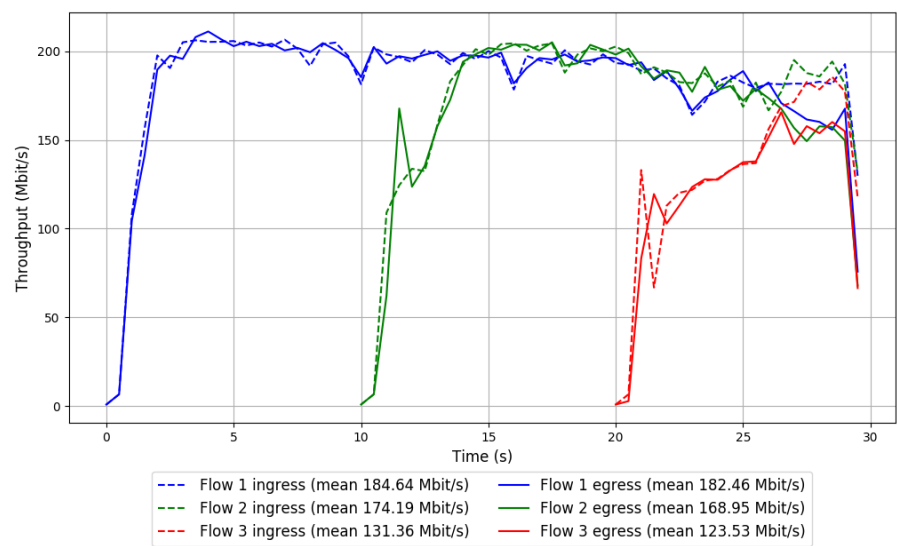


Run 7: Statistics of Indigo

Start at: 2017-12-11 22:05:10
End at: 2017-12-11 22:05:40
Local clock offset: -0.107 ms
Remote clock offset: 24.418 ms

Below is generated by plot.py at 2017-12-12 03:31:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.18 Mbit/s
95th percentile per-packet one-way delay: 56.722 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 182.46 Mbit/s
95th percentile per-packet one-way delay: 56.720 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 168.95 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 123.53 Mbit/s
95th percentile per-packet one-way delay: 57.522 ms
Loss rate: 7.60%

Run 7: Report of Indigo — Data Link

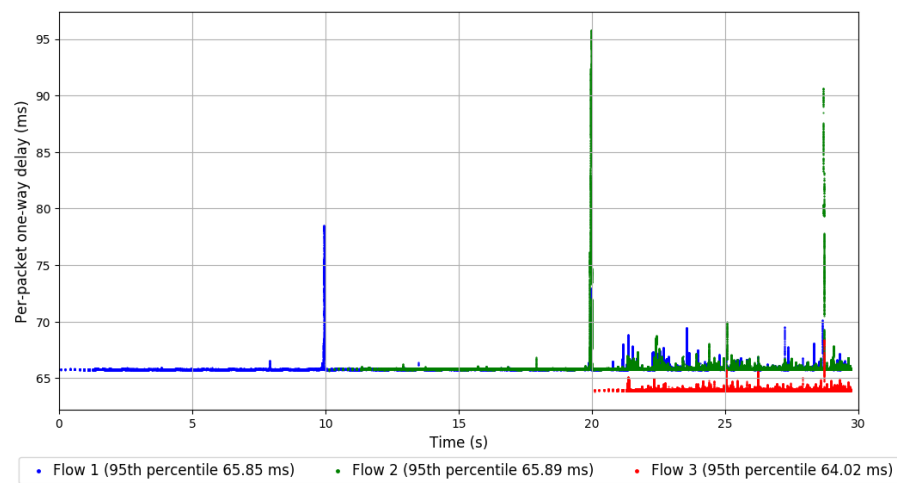
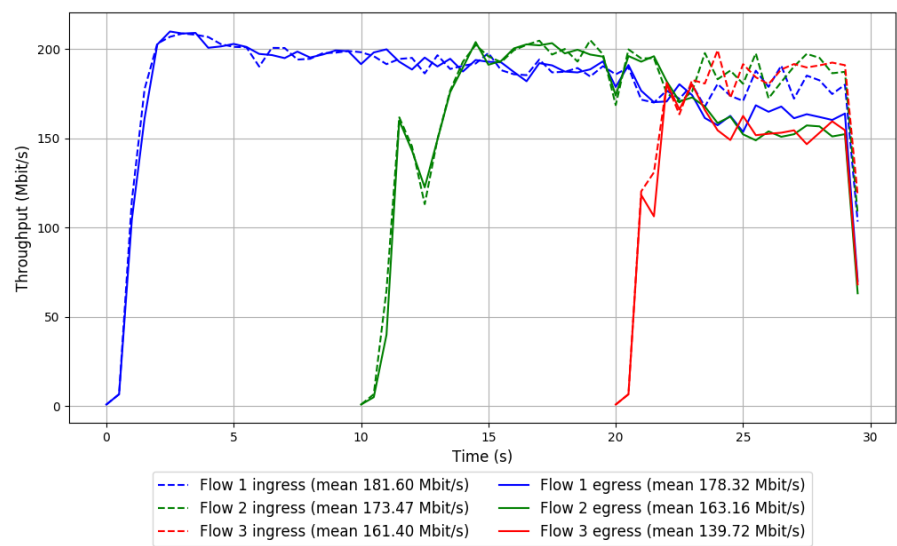


Run 8: Statistics of Indigo

Start at: 2017-12-11 22:25:13
End at: 2017-12-11 22:25:43
Local clock offset: -0.156 ms
Remote clock offset: 14.894 ms

Below is generated by plot.py at 2017-12-12 03:31:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.32 Mbit/s
95th percentile per-packet one-way delay: 65.859 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 178.32 Mbit/s
95th percentile per-packet one-way delay: 65.849 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 163.16 Mbit/s
95th percentile per-packet one-way delay: 65.892 ms
Loss rate: 6.74%
-- Flow 3:
Average throughput: 139.72 Mbit/s
95th percentile per-packet one-way delay: 64.017 ms
Loss rate: 14.90%

Run 8: Report of Indigo — Data Link

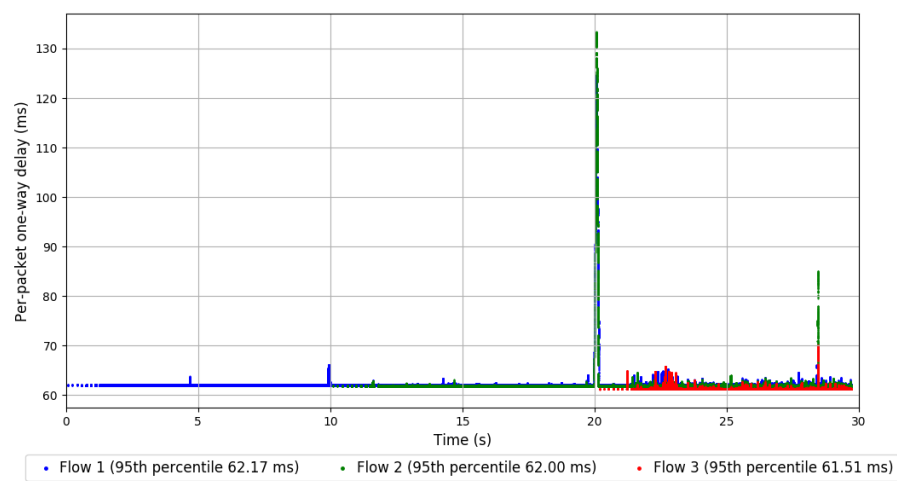
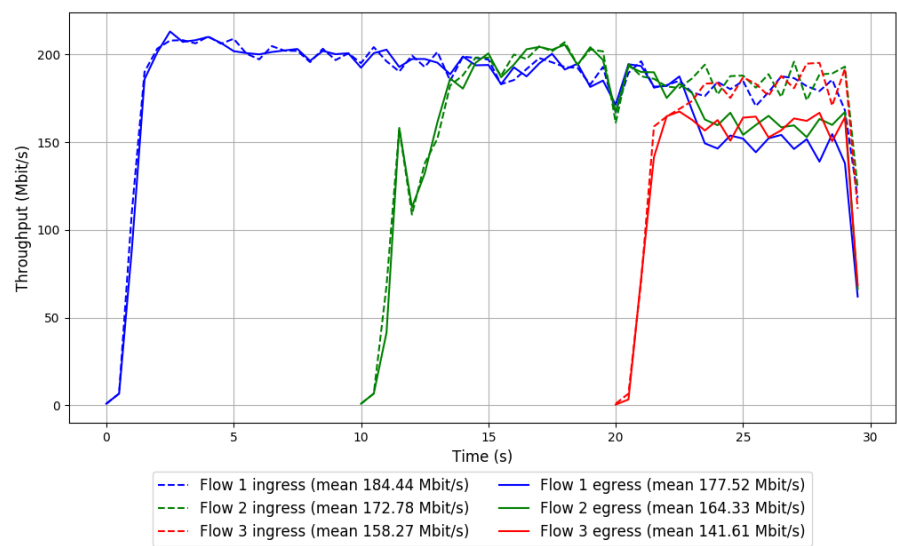


Run 9: Statistics of Indigo

Start at: 2017-12-11 22:45:12
End at: 2017-12-11 22:45:42
Local clock offset: -0.228 ms
Remote clock offset: 20.102 ms

Below is generated by plot.py at 2017-12-12 03:32:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.65 Mbit/s
95th percentile per-packet one-way delay: 62.148 ms
Loss rate: 5.90%
-- Flow 1:
Average throughput: 177.52 Mbit/s
95th percentile per-packet one-way delay: 62.169 ms
Loss rate: 4.29%
-- Flow 2:
Average throughput: 164.33 Mbit/s
95th percentile per-packet one-way delay: 62.003 ms
Loss rate: 5.72%
-- Flow 3:
Average throughput: 141.61 Mbit/s
95th percentile per-packet one-way delay: 61.511 ms
Loss rate: 12.07%

Run 9: Report of Indigo — Data Link

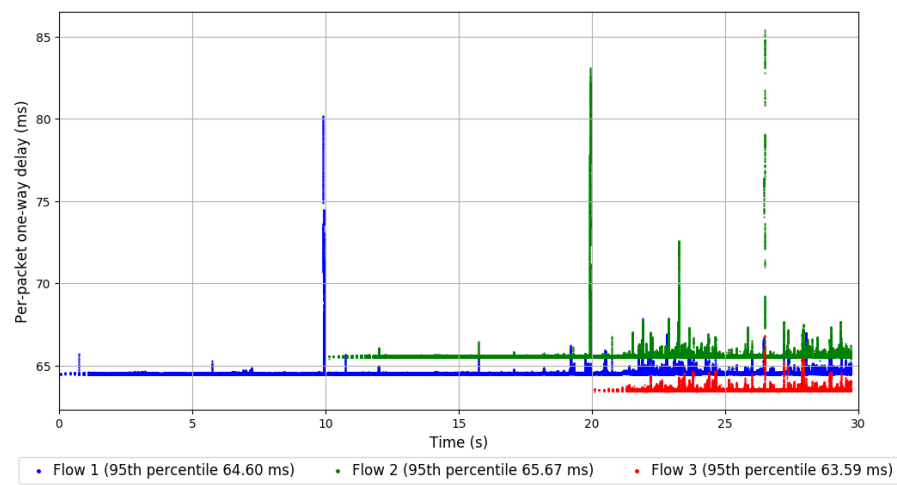
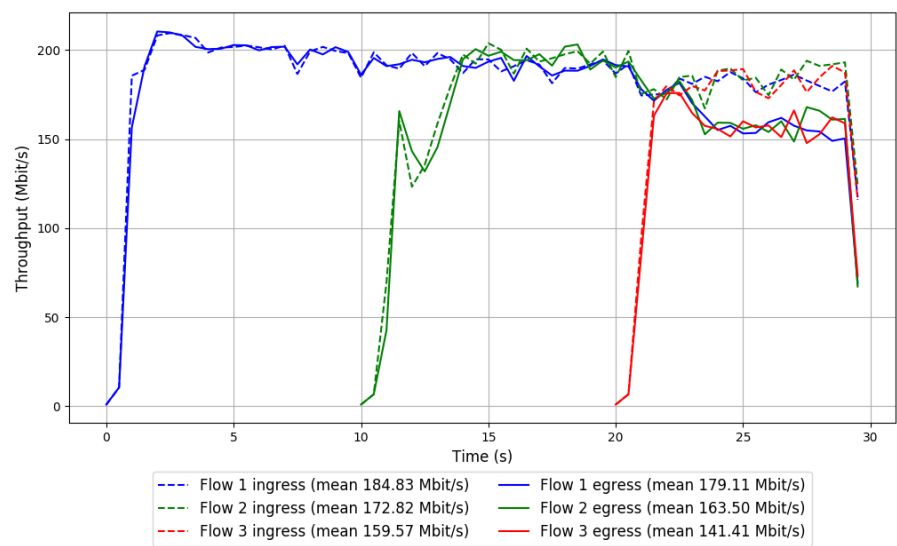


Run 10: Statistics of Indigo

Start at: 2017-12-11 23:05:13
End at: 2017-12-11 23:05:43
Local clock offset: -0.362 ms
Remote clock offset: 16.626 ms

Below is generated by plot.py at 2017-12-12 03:32:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.01 Mbit/s
95th percentile per-packet one-way delay: 65.617 ms
Loss rate: 5.84%
-- Flow 1:
Average throughput: 179.11 Mbit/s
95th percentile per-packet one-way delay: 64.600 ms
Loss rate: 3.63%
-- Flow 2:
Average throughput: 163.50 Mbit/s
95th percentile per-packet one-way delay: 65.675 ms
Loss rate: 6.19%
-- Flow 3:
Average throughput: 141.41 Mbit/s
95th percentile per-packet one-way delay: 63.585 ms
Loss rate: 12.87%

Run 10: Report of Indigo — Data Link

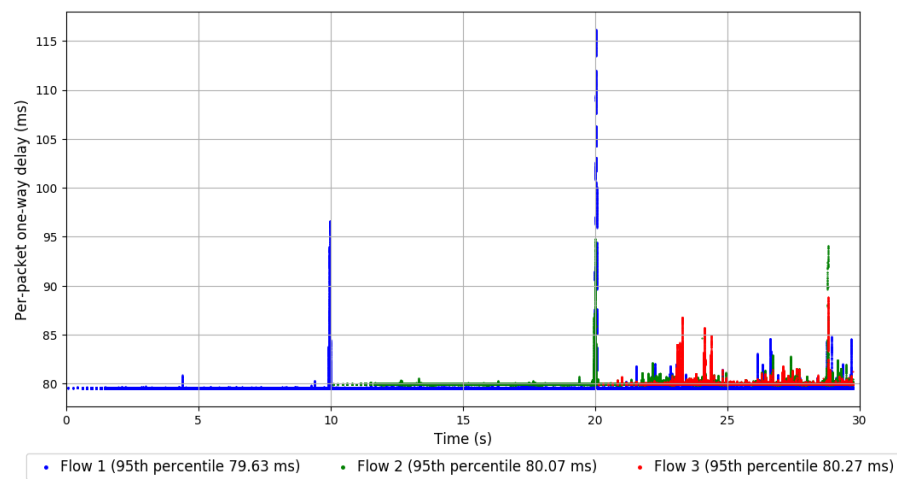
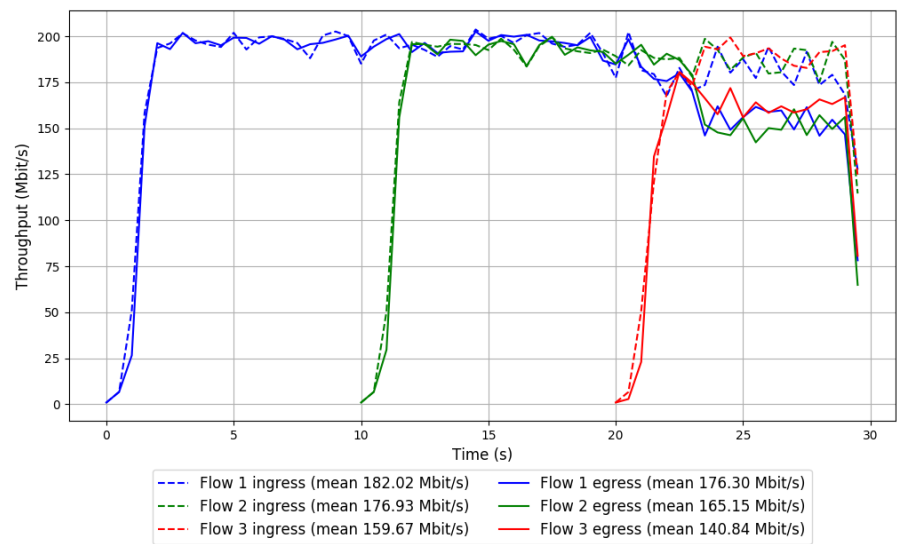


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 20:06:40
End at: 2017-12-11 20:07:10
Local clock offset: 0.0 ms
Remote clock offset: 3.89 ms

# Below is generated by plot.py at 2017-12-12 03:32:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.17 Mbit/s
95th percentile per-packet one-way delay: 80.021 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 176.30 Mbit/s
95th percentile per-packet one-way delay: 79.630 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 165.15 Mbit/s
95th percentile per-packet one-way delay: 80.066 ms
Loss rate: 7.45%
-- Flow 3:
Average throughput: 140.84 Mbit/s
95th percentile per-packet one-way delay: 80.270 ms
Loss rate: 13.30%
```

Run 1: Report of Indigo-calib — Data Link

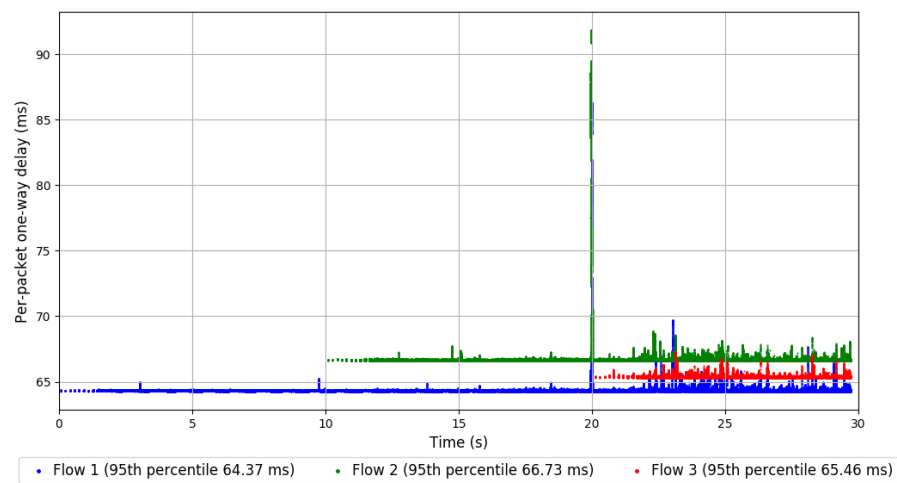
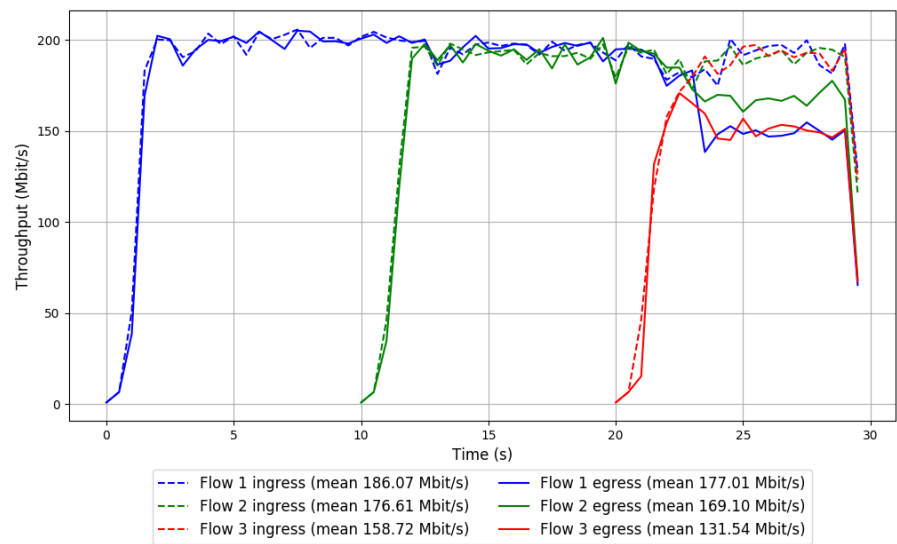


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 20:26:53
End at: 2017-12-11 20:27:23
Local clock offset: -0.043 ms
Remote clock offset: 15.404 ms

# Below is generated by plot.py at 2017-12-12 03:33:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.37 Mbit/s
95th percentile per-packet one-way delay: 66.693 ms
Loss rate: 7.22%
-- Flow 1:
Average throughput: 177.01 Mbit/s
95th percentile per-packet one-way delay: 64.374 ms
Loss rate: 5.40%
-- Flow 2:
Average throughput: 169.10 Mbit/s
95th percentile per-packet one-way delay: 66.735 ms
Loss rate: 5.07%
-- Flow 3:
Average throughput: 131.54 Mbit/s
95th percentile per-packet one-way delay: 65.457 ms
Loss rate: 18.55%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 20:47:25

End at: 2017-12-11 20:47:55

Local clock offset: -0.0 ms

Remote clock offset: 5.995 ms

Below is generated by plot.py at 2017-12-12 03:33:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.94 Mbit/s

95th percentile per-packet one-way delay: 75.009 ms

Loss rate: 6.18%

-- Flow 1:

Average throughput: 179.13 Mbit/s

95th percentile per-packet one-way delay: 75.019 ms

Loss rate: 3.60%

-- Flow 2:

Average throughput: 163.67 Mbit/s

95th percentile per-packet one-way delay: 73.967 ms

Loss rate: 7.56%

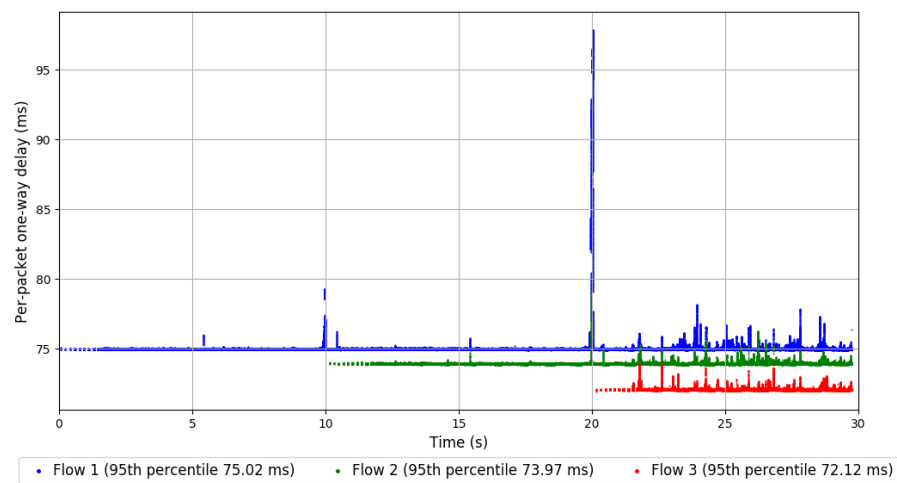
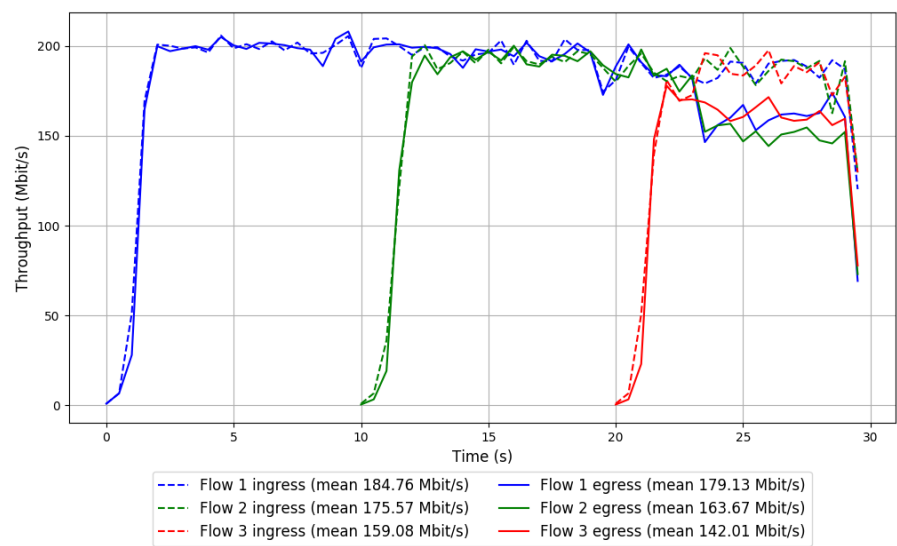
-- Flow 3:

Average throughput: 142.01 Mbit/s

95th percentile per-packet one-way delay: 72.122 ms

Loss rate: 12.25%

Run 3: Report of Indigo-calib — Data Link

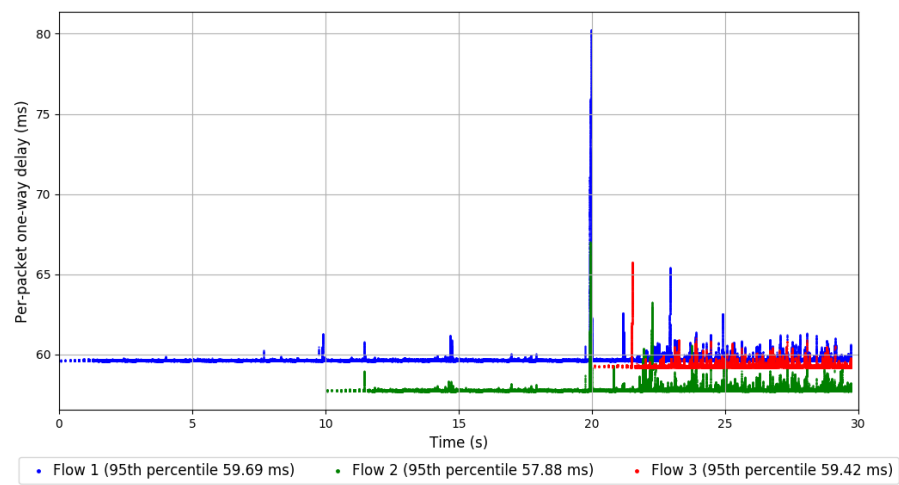
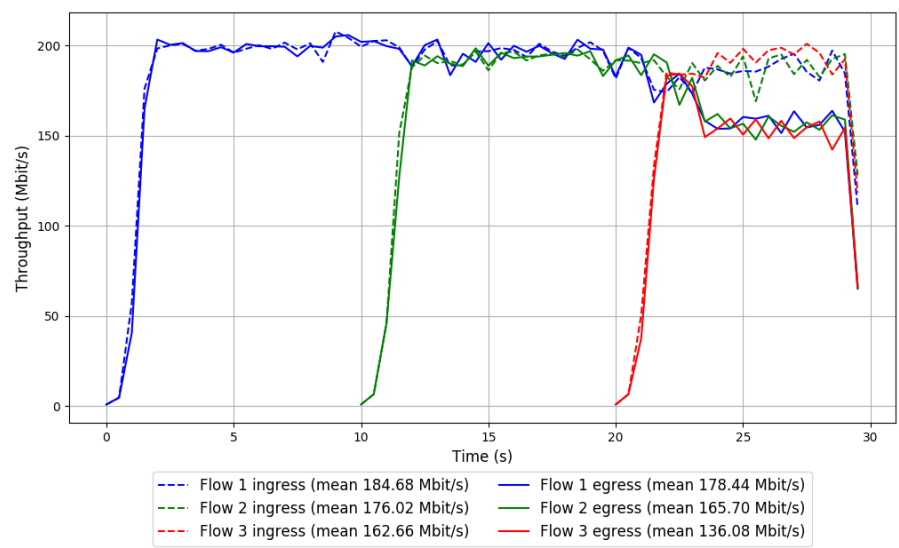


Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 21:07:40
End at: 2017-12-11 21:08:10
Local clock offset: -0.054 ms
Remote clock offset: 20.155 ms

Below is generated by plot.py at 2017-12-12 03:35:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.37 Mbit/s
95th percentile per-packet one-way delay: 59.666 ms
Loss rate: 6.90%
-- Flow 1:
Average throughput: 178.44 Mbit/s
95th percentile per-packet one-way delay: 59.686 ms
Loss rate: 3.92%
-- Flow 2:
Average throughput: 165.70 Mbit/s
95th percentile per-packet one-way delay: 57.876 ms
Loss rate: 6.65%
-- Flow 3:
Average throughput: 136.08 Mbit/s
95th percentile per-packet one-way delay: 59.416 ms
Loss rate: 17.76%

Run 4: Report of Indigo-calib — Data Link

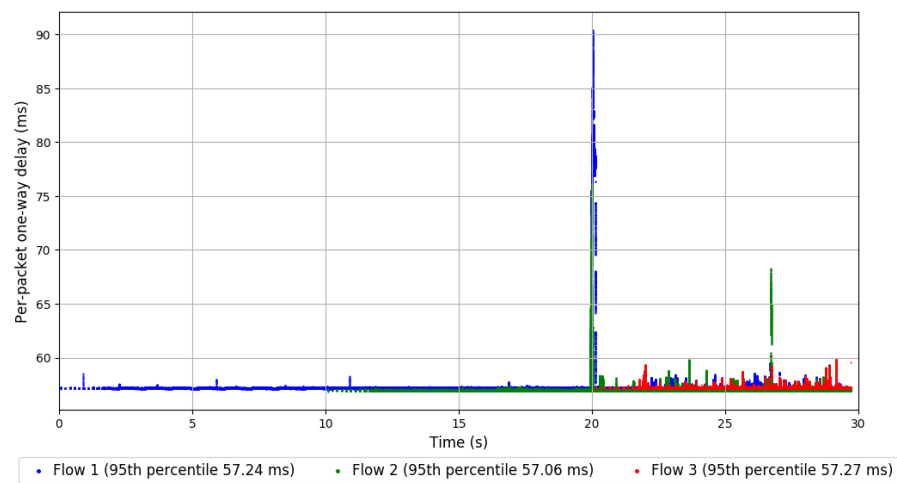
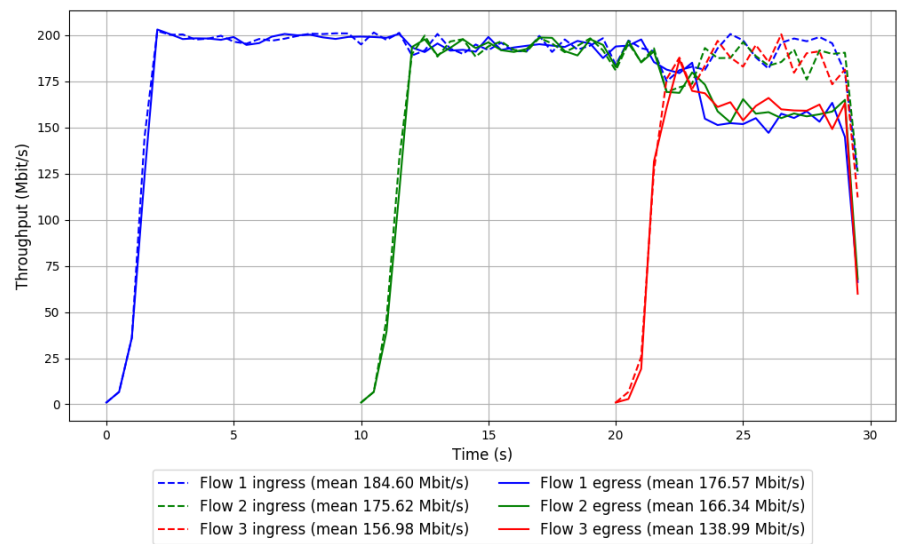


Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 21:27:46
End at: 2017-12-11 21:28:16
Local clock offset: -0.072 ms
Remote clock offset: 22.672 ms

Below is generated by plot.py at 2017-12-12 03:35:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.43 Mbit/s
95th percentile per-packet one-way delay: 57.240 ms
Loss rate: 6.46%
-- Flow 1:
Average throughput: 176.57 Mbit/s
95th percentile per-packet one-way delay: 57.237 ms
Loss rate: 4.89%
-- Flow 2:
Average throughput: 166.34 Mbit/s
95th percentile per-packet one-way delay: 57.056 ms
Loss rate: 6.08%
-- Flow 3:
Average throughput: 138.99 Mbit/s
95th percentile per-packet one-way delay: 57.275 ms
Loss rate: 12.95%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 21:47:57

End at: 2017-12-11 21:48:27

Local clock offset: -0.126 ms

Remote clock offset: 8.94 ms

Below is generated by plot.py at 2017-12-12 03:35:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.80 Mbit/s

95th percentile per-packet one-way delay: 71.621 ms

Loss rate: 6.88%

-- Flow 1:

Average throughput: 180.32 Mbit/s

95th percentile per-packet one-way delay: 69.327 ms

Loss rate: 3.81%

-- Flow 2:

Average throughput: 162.85 Mbit/s

95th percentile per-packet one-way delay: 71.661 ms

Loss rate: 8.37%

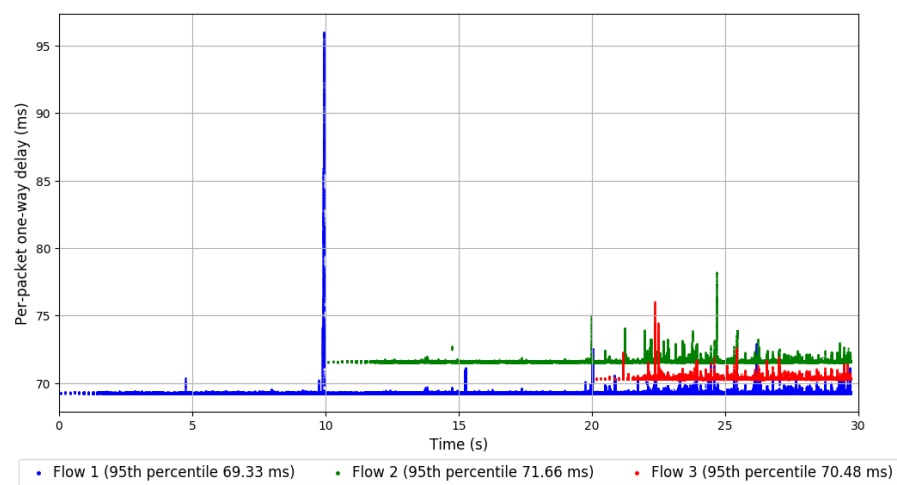
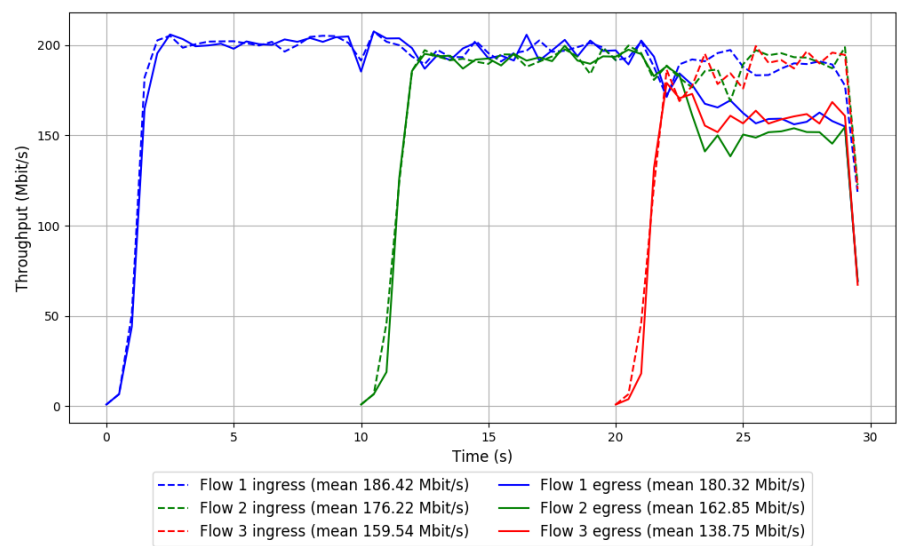
-- Flow 3:

Average throughput: 138.75 Mbit/s

95th percentile per-packet one-way delay: 70.482 ms

Loss rate: 14.52%

Run 6: Report of Indigo-calib — Data Link

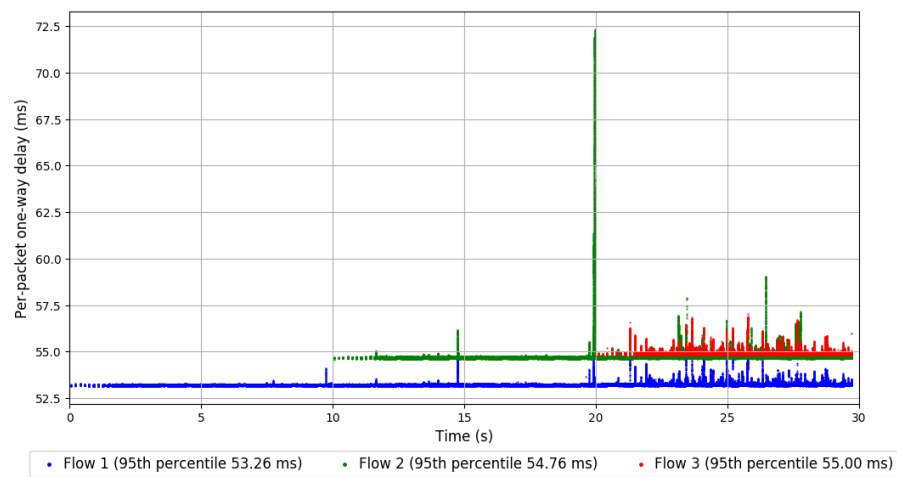
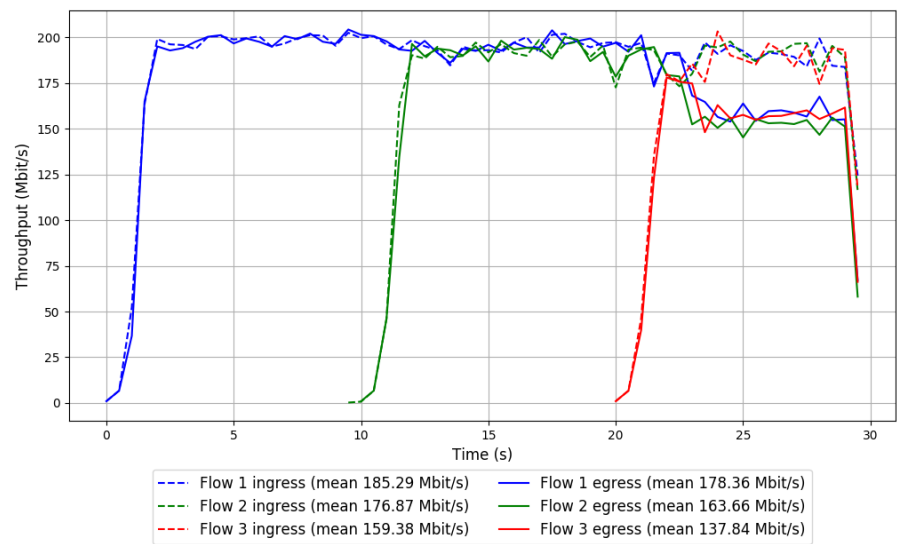


Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 22:08:10
End at: 2017-12-11 22:08:40
Local clock offset: -0.192 ms
Remote clock offset: 25.166 ms

Below is generated by plot.py at 2017-12-12 03:36:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.54 Mbit/s
95th percentile per-packet one-way delay: 54.908 ms
Loss rate: 7.16%
-- Flow 1:
Average throughput: 178.36 Mbit/s
95th percentile per-packet one-way delay: 53.262 ms
Loss rate: 4.27%
-- Flow 2:
Average throughput: 163.66 Mbit/s
95th percentile per-packet one-way delay: 54.764 ms
Loss rate: 8.24%
-- Flow 3:
Average throughput: 137.84 Mbit/s
95th percentile per-packet one-way delay: 54.996 ms
Loss rate: 14.99%

Run 7: Report of Indigo-calib — Data Link

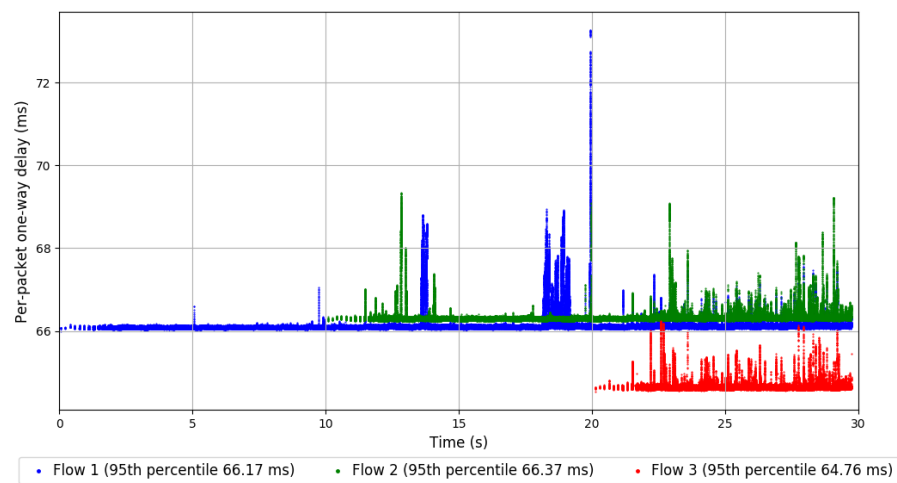
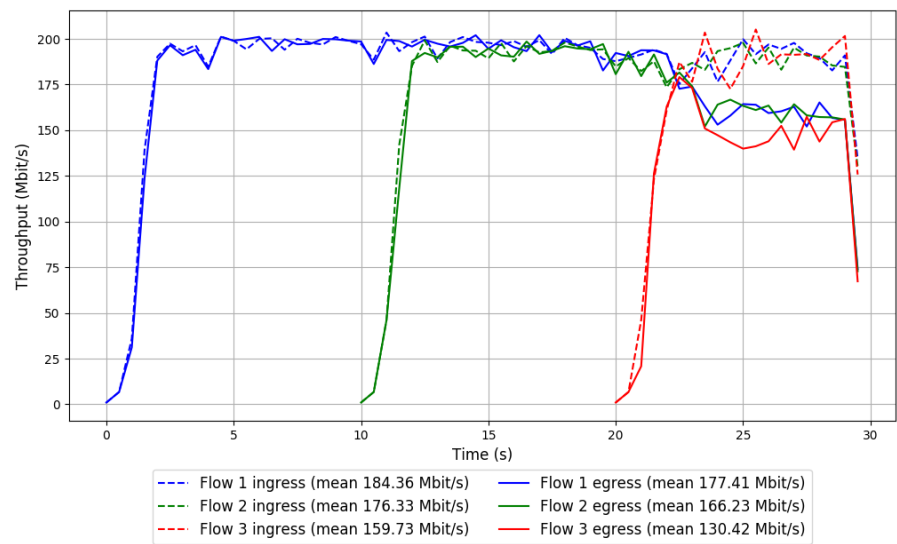


Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 22:28:11
End at: 2017-12-11 22:28:41
Local clock offset: -0.179 ms
Remote clock offset: 14.486 ms

Below is generated by plot.py at 2017-12-12 03:36:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.74 Mbit/s
95th percentile per-packet one-way delay: 66.346 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 177.41 Mbit/s
95th percentile per-packet one-way delay: 66.167 ms
Loss rate: 4.32%
-- Flow 2:
Average throughput: 166.23 Mbit/s
95th percentile per-packet one-way delay: 66.373 ms
Loss rate: 6.53%
-- Flow 3:
Average throughput: 130.42 Mbit/s
95th percentile per-packet one-way delay: 64.764 ms
Loss rate: 19.73%

Run 8: Report of Indigo-calib — Data Link

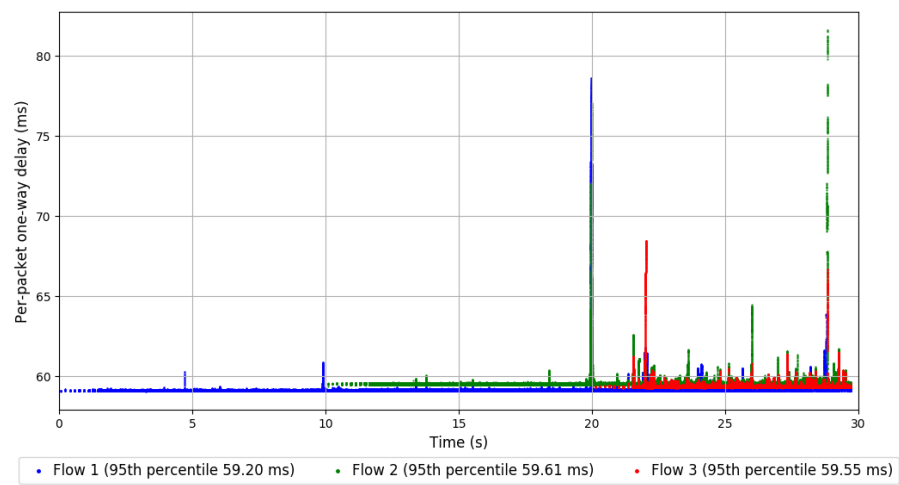
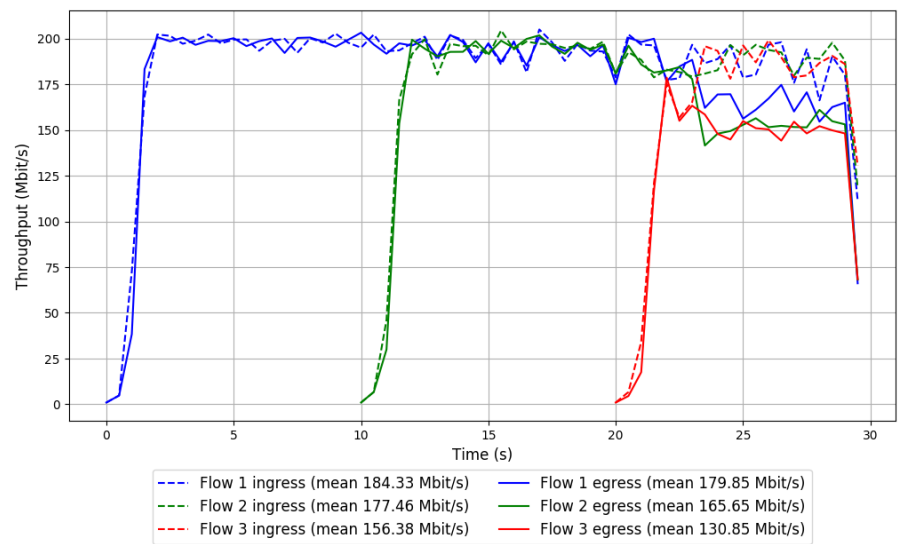


Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 22:48:11
End at: 2017-12-11 22:48:41
Local clock offset: -0.29 ms
Remote clock offset: 22.984 ms

Below is generated by plot.py at 2017-12-12 03:36:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.78 Mbit/s
95th percentile per-packet one-way delay: 59.578 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 179.85 Mbit/s
95th percentile per-packet one-way delay: 59.200 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 165.65 Mbit/s
95th percentile per-packet one-way delay: 59.607 ms
Loss rate: 7.45%
-- Flow 3:
Average throughput: 130.85 Mbit/s
95th percentile per-packet one-way delay: 59.551 ms
Loss rate: 17.77%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 23:08:12
End at: 2017-12-11 23:08:42
Local clock offset: -0.298 ms
Remote clock offset: 23.957 ms

Below is generated by plot.py at 2017-12-12 03:36:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.08 Mbit/s
95th percentile per-packet one-way delay: 59.130 ms
Loss rate: 7.42%
-- Flow 1:
Average throughput: 174.60 Mbit/s
95th percentile per-packet one-way delay: 58.485 ms
Loss rate: 5.42%
-- Flow 2:
Average throughput: 165.33 Mbit/s
95th percentile per-packet one-way delay: 56.660 ms
Loss rate: 8.24%
-- Flow 3:
Average throughput: 139.81 Mbit/s
95th percentile per-packet one-way delay: 59.293 ms
Loss rate: 12.69%

Run 10: Report of Indigo-calib — Data Link

