

Pantheon Report

Generated at 2017-09-23 22:24:24 (UTC).

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

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

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

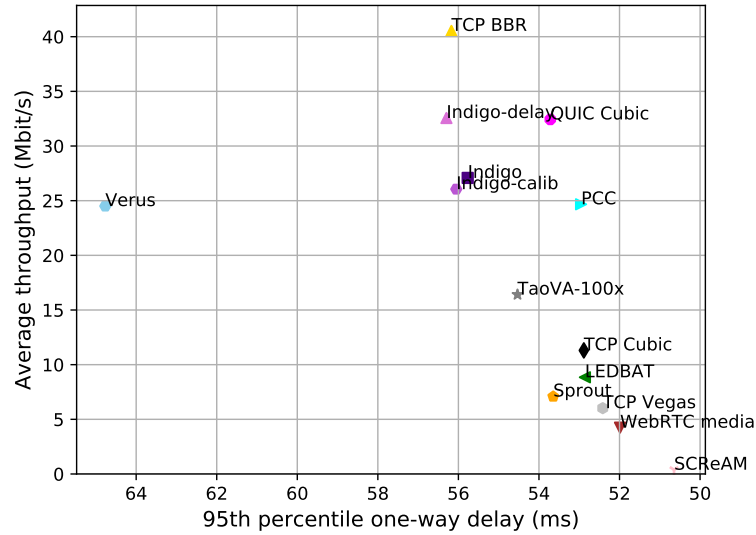
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

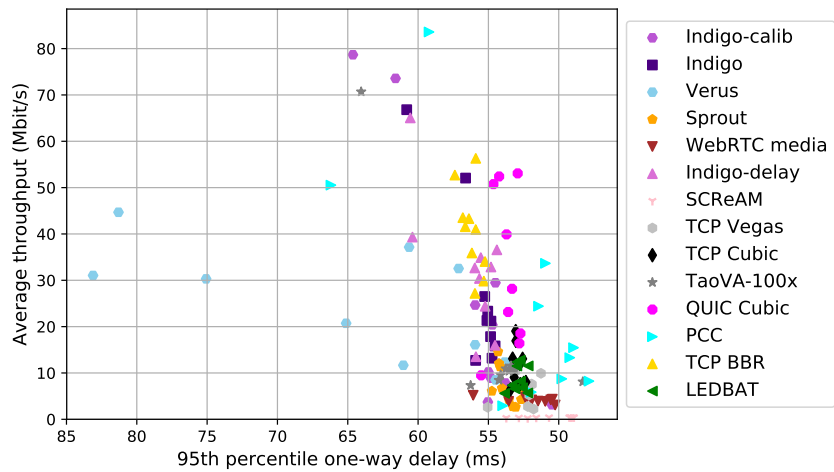
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS Korea Ethernet to China 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	21.95	20.08	18.05	369.47	56.13	57.65	28.46	29.43	28.77
TCP Cubic	10	5.79	5.30	6.02	52.59	52.82	53.35	0.91	1.25	1.58
LEDBAT	10	4.56	4.63	3.71	52.77	52.85	52.79	0.98	1.06	0.93
PCC	10	15.42	10.36	7.16	52.99	52.72	52.49	0.44	0.39	0.42
QUIC Cubic	9	19.25	13.38	13.27	53.36	53.85	54.26	0.56	0.79	0.90
SCReAM	10	0.19	0.21	0.20	50.56	50.57	50.82	0.23	0.12	0.34
WebRTC media	10	2.24	1.46	0.58	51.55	52.26	52.69	0.26	0.31	0.50
Sprout	10	3.88	3.41	2.87	53.62	53.68	53.55	3.19	4.18	3.76
TaoVA-100x	9	11.00	5.65	6.29	53.95	54.56	54.68	3.80	5.69	10.26
TCP Vegas	8	2.48	3.17	4.34	51.95	52.19	52.71	0.50	1.03	2.57
Verus	10	15.53	9.93	7.71	61.91	63.16	58.58	42.24	42.60	30.99
Indigo	10	13.22	13.06	16.22	55.34	55.70	56.01	9.18	12.06	24.17
Indigo-calib	10	13.35	12.69	12.84	56.01	55.79	56.58	16.68	14.39	20.40
Indigo-delay	10	20.81	11.67	12.68	56.42	55.98	55.99	30.39	39.85	45.27

Run 1: Statistics of TCP BBR

Start at: 2017-09-23 18:49:05

End at: 2017-09-23 18:49:35

Local clock offset: -2.043 ms

Remote clock offset: 1.258 ms

Below is generated by plot.py at 2017-09-23 22:18:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.70 Mbit/s

95th percentile per-packet one-way delay: 57.386 ms

Loss rate: 34.28%

-- Flow 1:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 56.648 ms

Loss rate: 31.34%

-- Flow 2:

Average throughput: 29.40 Mbit/s

95th percentile per-packet one-way delay: 57.562 ms

Loss rate: 41.64%

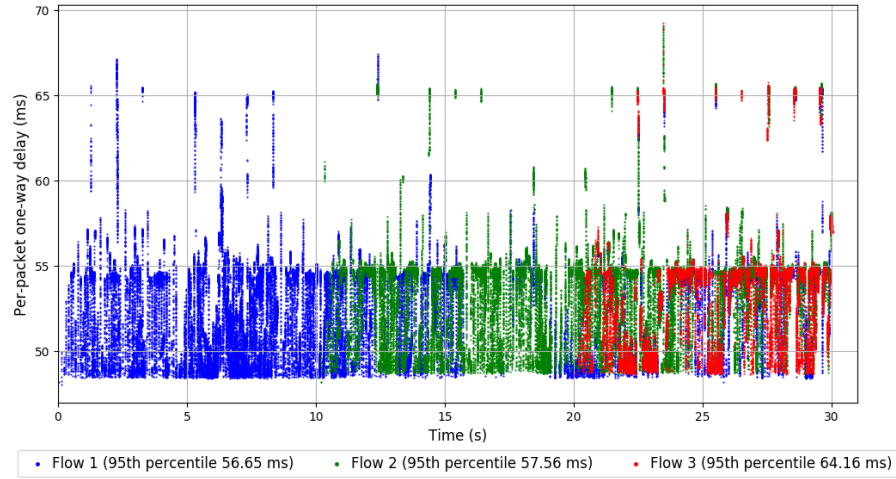
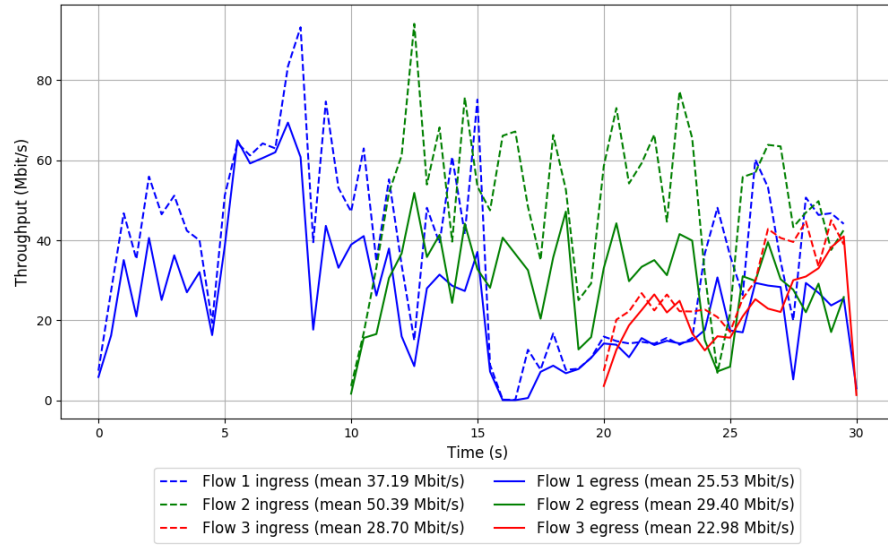
-- Flow 3:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 64.162 ms

Loss rate: 19.87%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-23 19:08:17

End at: 2017-09-23 19:08:47

Local clock offset: -0.542 ms

Remote clock offset: 1.518 ms

Below is generated by plot.py at 2017-09-23 22:18:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.90 Mbit/s

95th percentile per-packet one-way delay: 56.176 ms

Loss rate: 26.07%

-- Flow 1:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 57.490 ms

Loss rate: 23.22%

-- Flow 2:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 55.425 ms

Loss rate: 30.81%

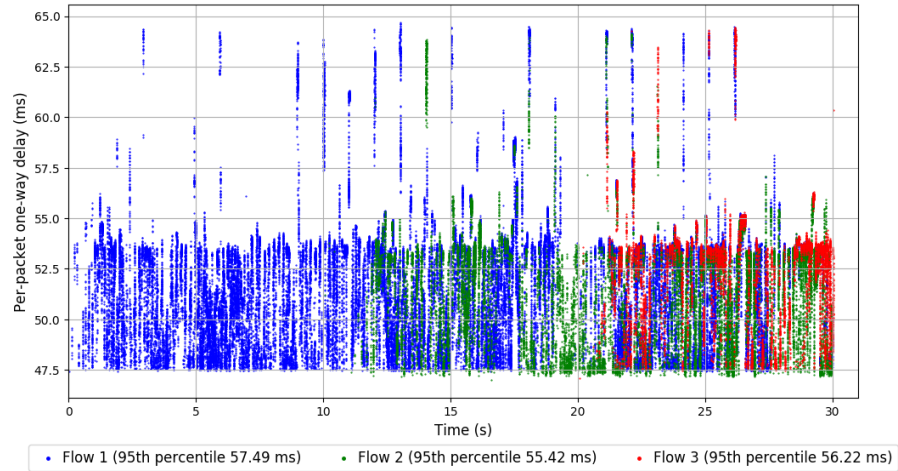
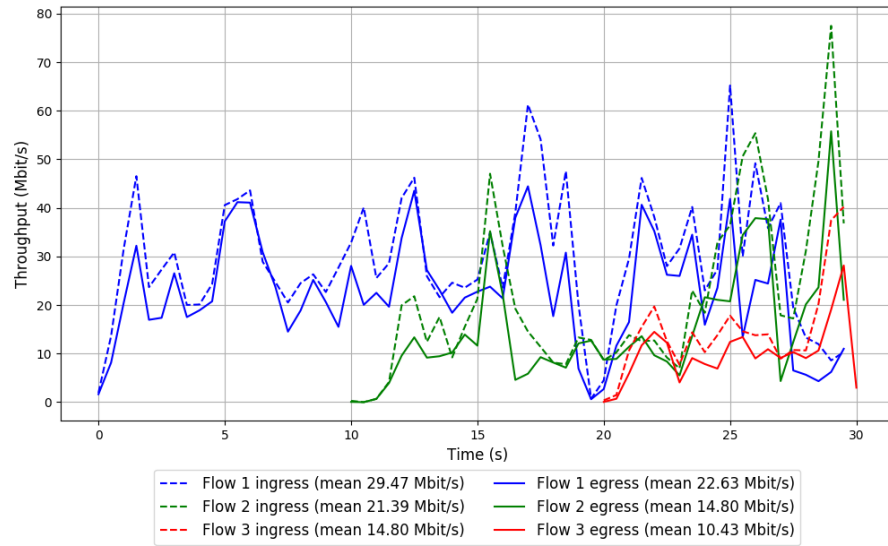
-- Flow 3:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 56.222 ms

Loss rate: 29.44%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-23 19:28:44

End at: 2017-09-23 19:29:14

Local clock offset: -1.432 ms

Remote clock offset: 1.609 ms

Below is generated by plot.py at 2017-09-23 22:18:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 56.387 ms

Loss rate: 34.15%

-- Flow 1:

Average throughput: 22.07 Mbit/s

95th percentile per-packet one-way delay: 55.606 ms

Loss rate: 29.22%

-- Flow 2:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 56.966 ms

Loss rate: 38.87%

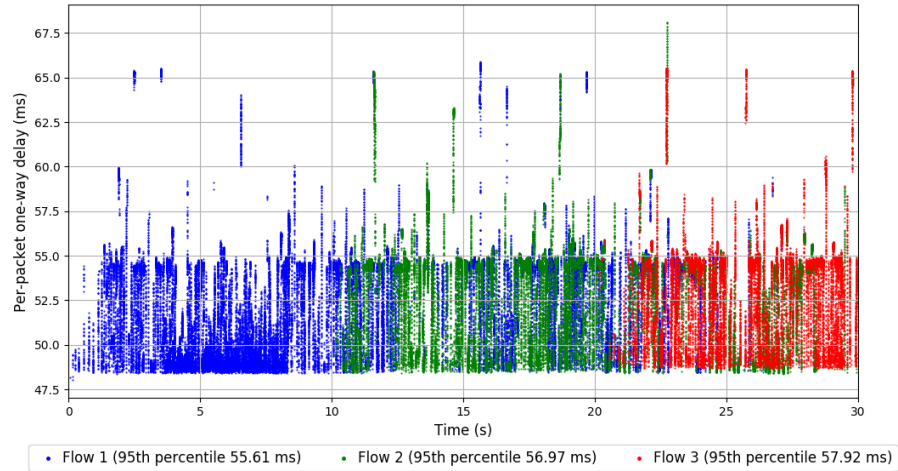
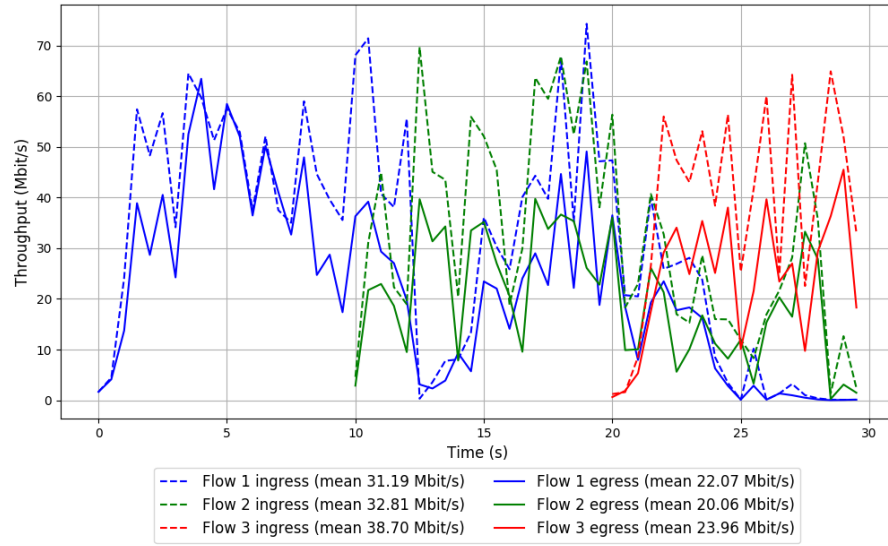
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 57.925 ms

Loss rate: 38.09%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-23 19:47:03

End at: 2017-09-23 19:47:33

Local clock offset: -1.469 ms

Remote clock offset: 1.441 ms

Below is generated by plot.py at 2017-09-23 22:18:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 55.899 ms

Loss rate: 28.95%

-- Flow 1:

Average throughput: 33.52 Mbit/s

95th percentile per-packet one-way delay: 55.599 ms

Loss rate: 26.91%

-- Flow 2:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 56.303 ms

Loss rate: 32.65%

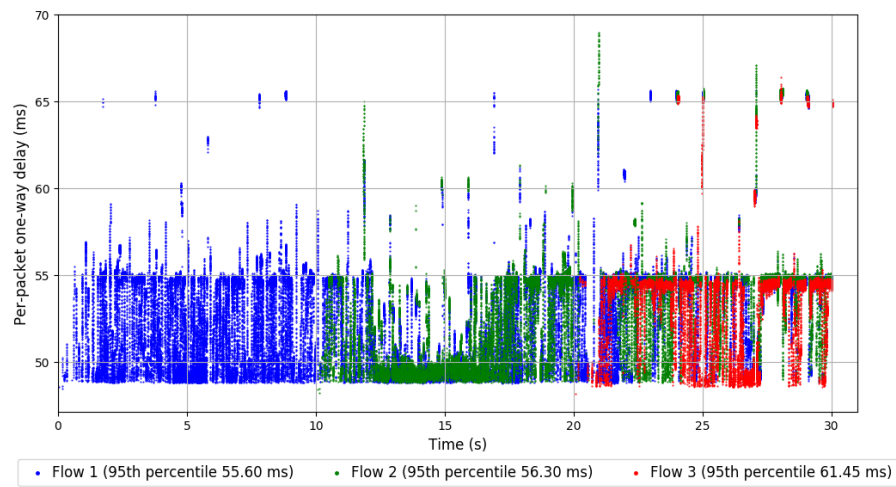
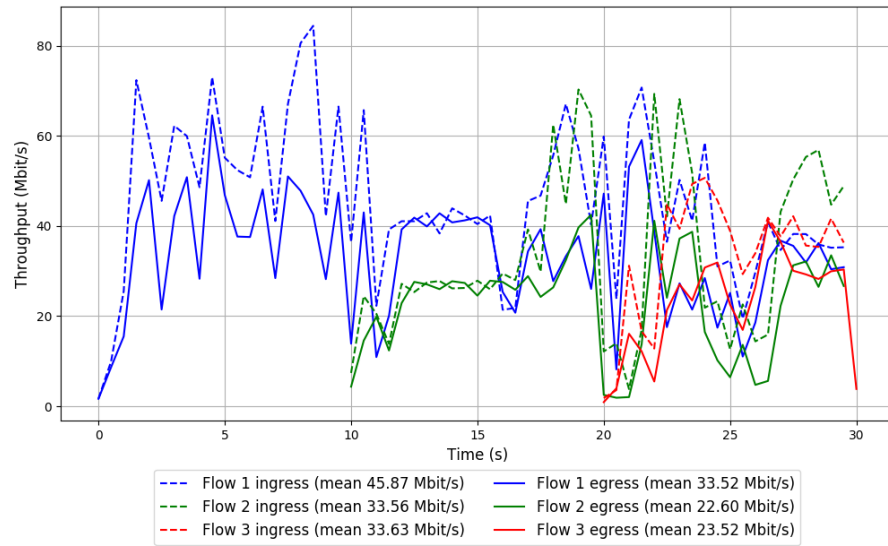
-- Flow 3:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 61.445 ms

Loss rate: 29.93%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-23 20:07:09

End at: 2017-09-23 20:07:39

Local clock offset: -1.45 ms

Remote clock offset: 1.056 ms

Below is generated by plot.py at 2017-09-23 22:18:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.82 Mbit/s

95th percentile per-packet one-way delay: 55.324 ms

Loss rate: 26.90%

-- Flow 1:

Average throughput: 19.09 Mbit/s

95th percentile per-packet one-way delay: 55.208 ms

Loss rate: 30.87%

-- Flow 2:

Average throughput: 8.78 Mbit/s

95th percentile per-packet one-way delay: 55.227 ms

Loss rate: 15.73%

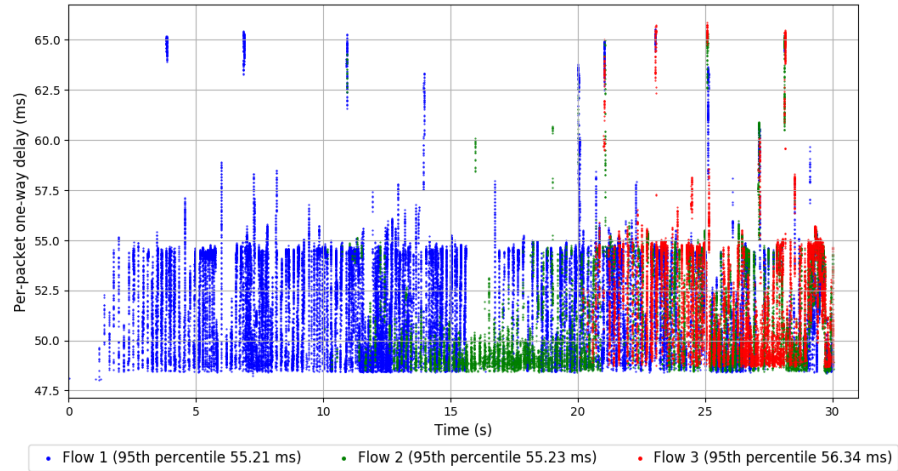
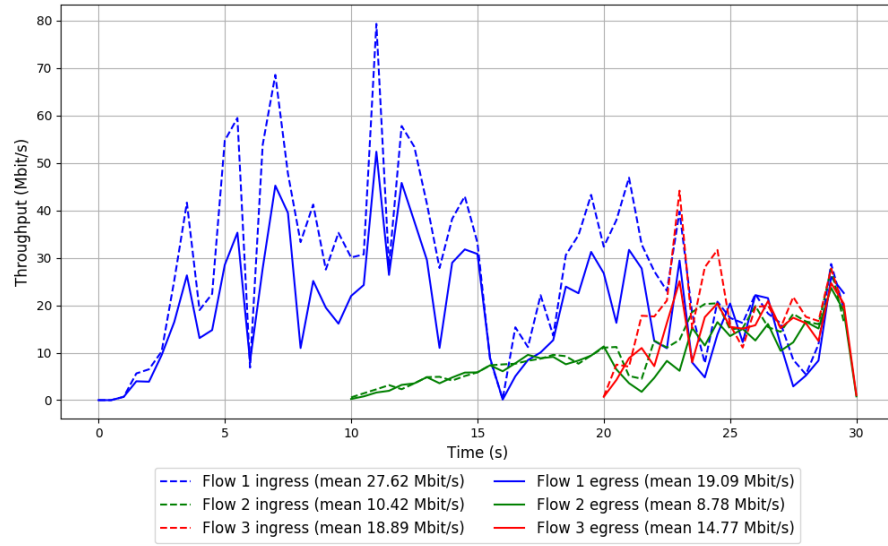
-- Flow 3:

Average throughput: 14.77 Mbit/s

95th percentile per-packet one-way delay: 56.343 ms

Loss rate: 21.77%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-23 20:32:24

End at: 2017-09-23 20:32:54

Local clock offset: -1.895 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2017-09-23 22:18:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.05 Mbit/s

95th percentile per-packet one-way delay: 55.240 ms

Loss rate: 25.08%

-- Flow 1:

Average throughput: 15.65 Mbit/s

95th percentile per-packet one-way delay: 55.858 ms

Loss rate: 25.88%

-- Flow 2:

Average throughput: 19.60 Mbit/s

95th percentile per-packet one-way delay: 55.028 ms

Loss rate: 20.28%

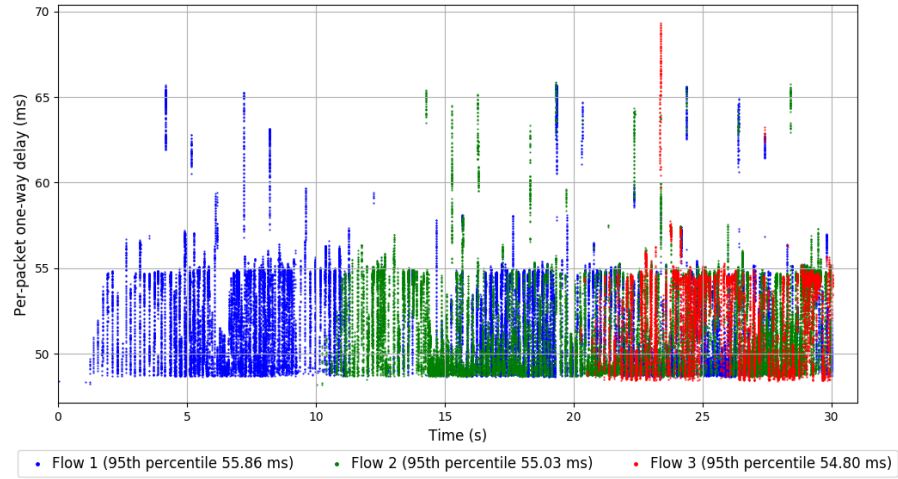
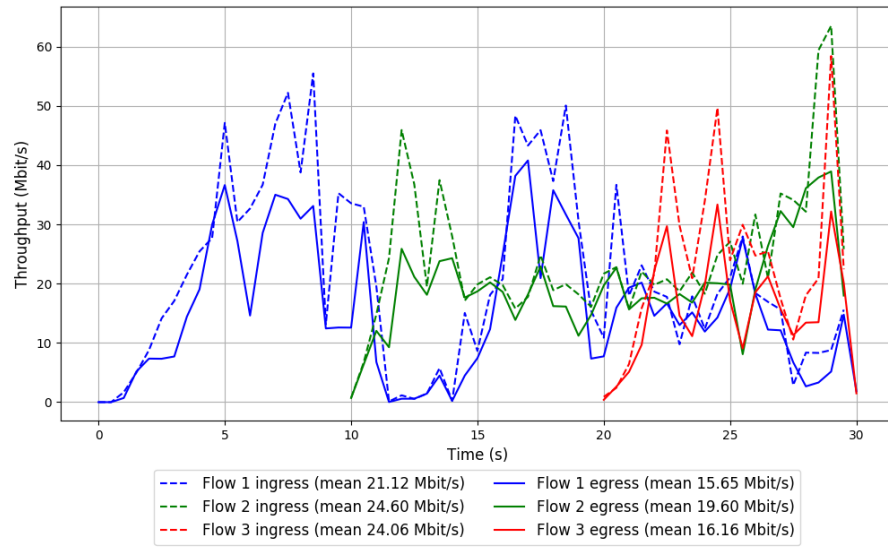
-- Flow 3:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 54.805 ms

Loss rate: 32.79%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-23 20:58:40

End at: 2017-09-23 20:59:10

Local clock offset: -2.46 ms

Remote clock offset: 0.182 ms

Below is generated by plot.py at 2017-09-23 22:18:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.52 Mbit/s

95th percentile per-packet one-way delay: 56.819 ms

Loss rate: 27.53%

-- Flow 1:

Average throughput: 23.89 Mbit/s

95th percentile per-packet one-way delay: 56.658 ms

Loss rate: 23.54%

-- Flow 2:

Average throughput: 21.78 Mbit/s

95th percentile per-packet one-way delay: 56.526 ms

Loss rate: 30.94%

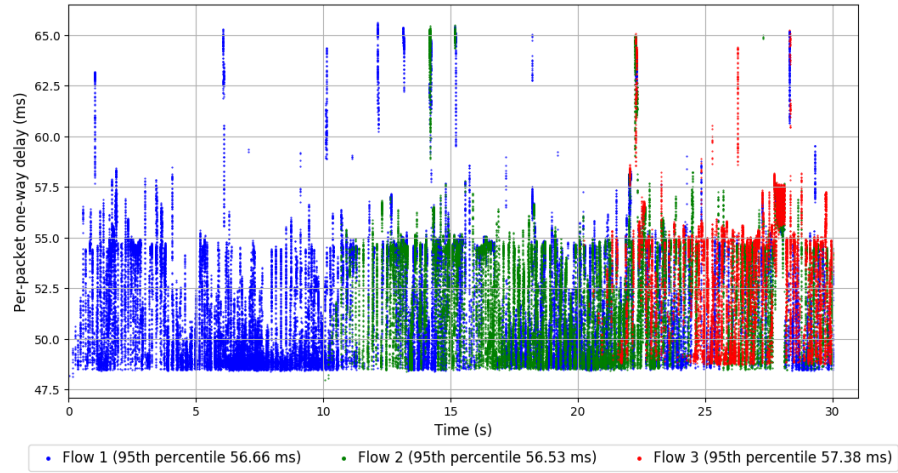
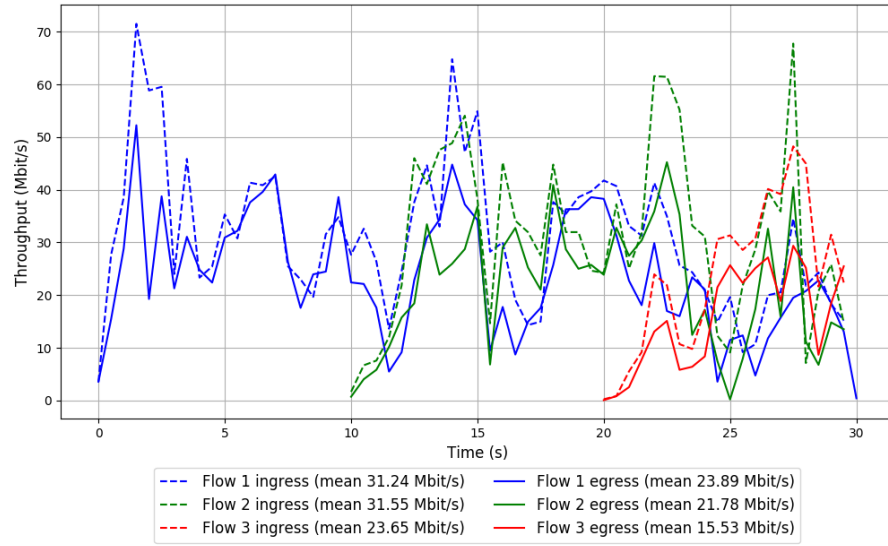
-- Flow 3:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 57.385 ms

Loss rate: 34.32%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-23 21:19:30

End at: 2017-09-23 21:20:00

Local clock offset: -2.909 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2017-09-23 22:18:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 56.643 ms

Loss rate: 33.46%

-- Flow 1:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 57.231 ms

Loss rate: 32.98%

-- Flow 2:

Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 56.668 ms

Loss rate: 35.43%

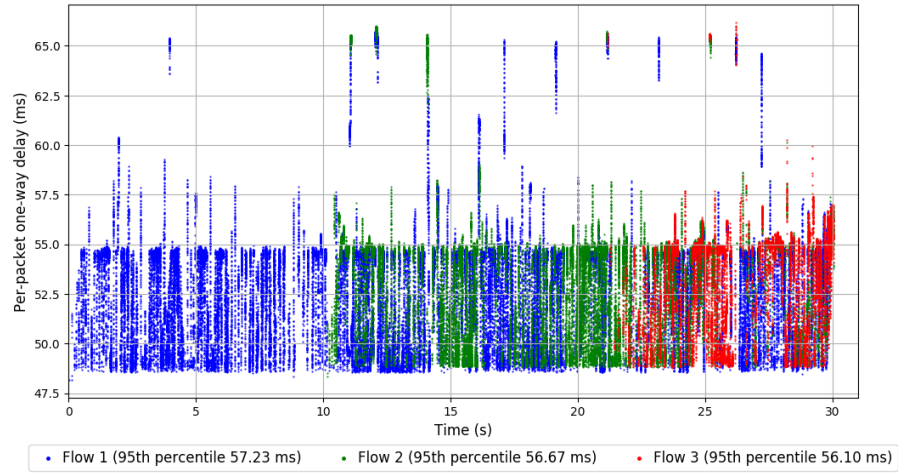
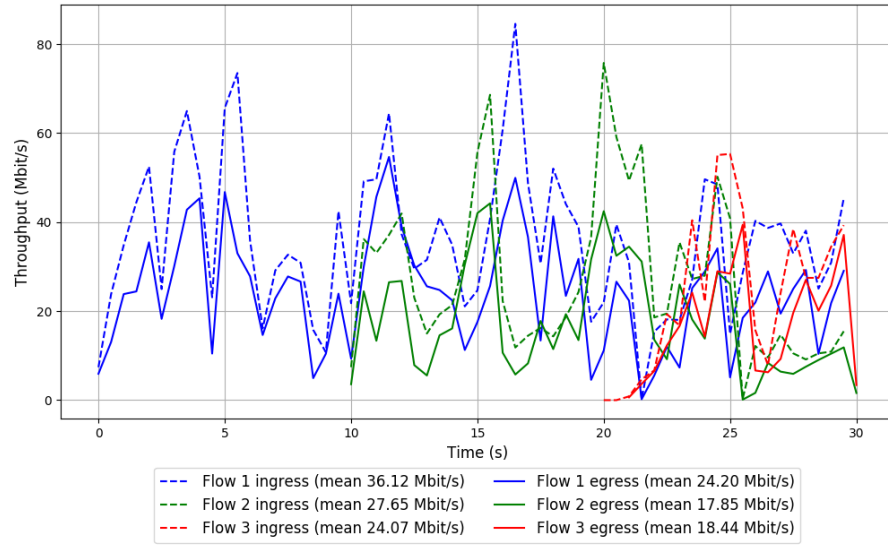
-- Flow 3:

Average throughput: 18.44 Mbit/s

95th percentile per-packet one-way delay: 56.102 ms

Loss rate: 31.11%

Run 8: Report of TCP BBR — Data Link

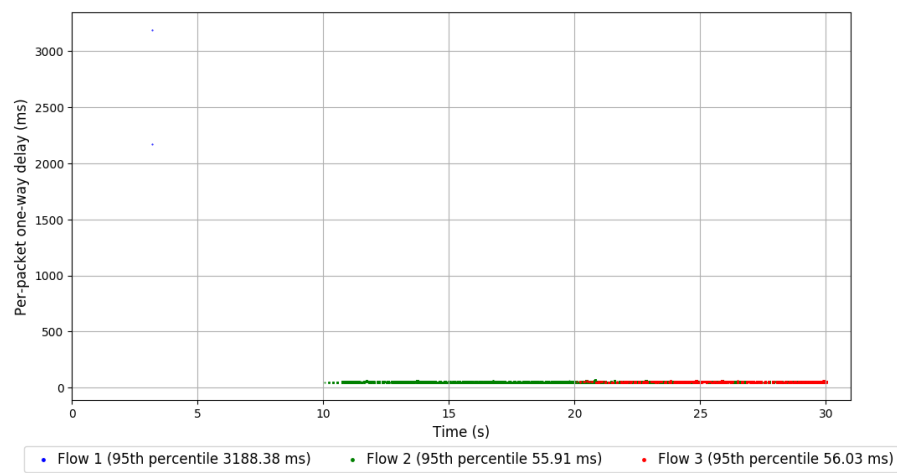
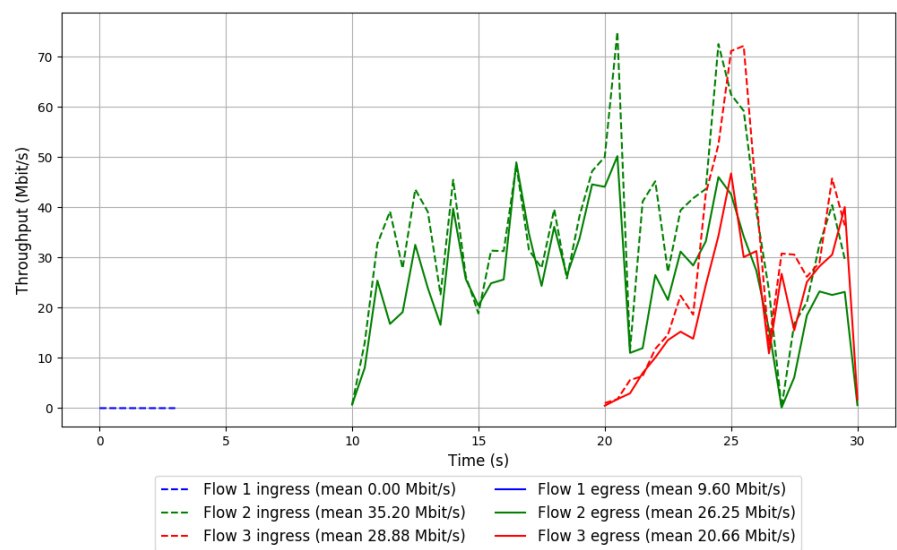


Run 9: Statistics of TCP BBR

Start at: 2017-09-23 21:39:41
End at: 2017-09-23 21:40:11
Local clock offset: -3.143 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2017-09-23 22:18:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 55.958 ms
Loss rate: 26.31%
-- Flow 1:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 3188.380 ms
Loss rate: 33.33%
-- Flow 2:
Average throughput: 26.25 Mbit/s
95th percentile per-packet one-way delay: 55.909 ms
Loss rate: 25.41%
-- Flow 3:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 56.033 ms
Loss rate: 28.49%

Run 9: Report of TCP BBR — Data Link

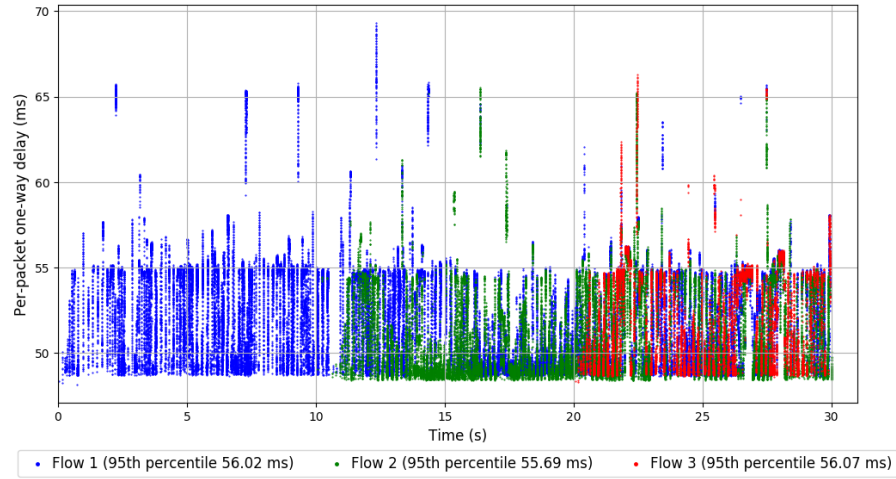
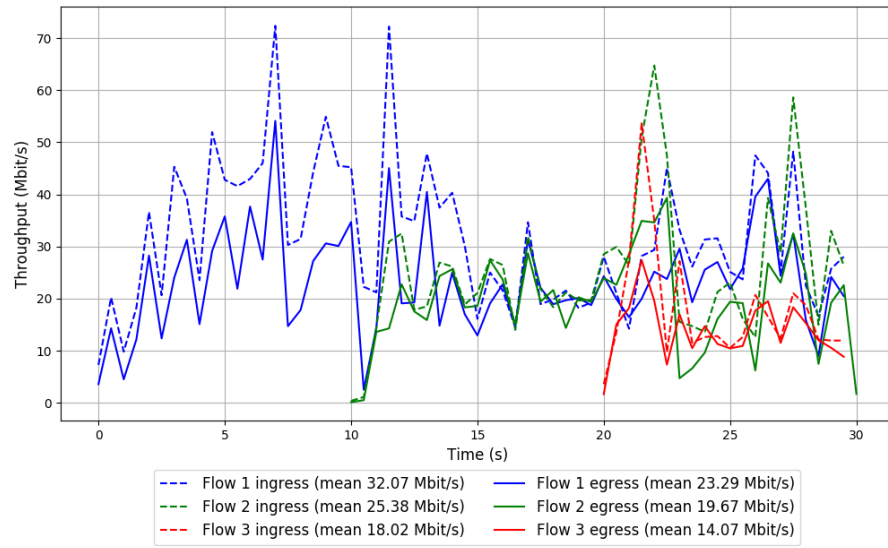


Run 10: Statistics of TCP BBR

Start at: 2017-09-23 22:01:55
End at: 2017-09-23 22:02:25
Local clock offset: -3.182 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2017-09-23 22:18:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 55.903 ms
Loss rate: 25.26%
-- Flow 1:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 56.020 ms
Loss rate: 27.35%
-- Flow 2:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 55.693 ms
Loss rate: 22.49%
-- Flow 3:
Average throughput: 14.07 Mbit/s
95th percentile per-packet one-way delay: 56.070 ms
Loss rate: 21.88%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-23 18:51:33

End at: 2017-09-23 18:52:03

Local clock offset: -2.122 ms

Remote clock offset: 1.208 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.93 Mbit/s

95th percentile per-packet one-way delay: 53.045 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 52.792 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 52.881 ms

Loss rate: 1.41%

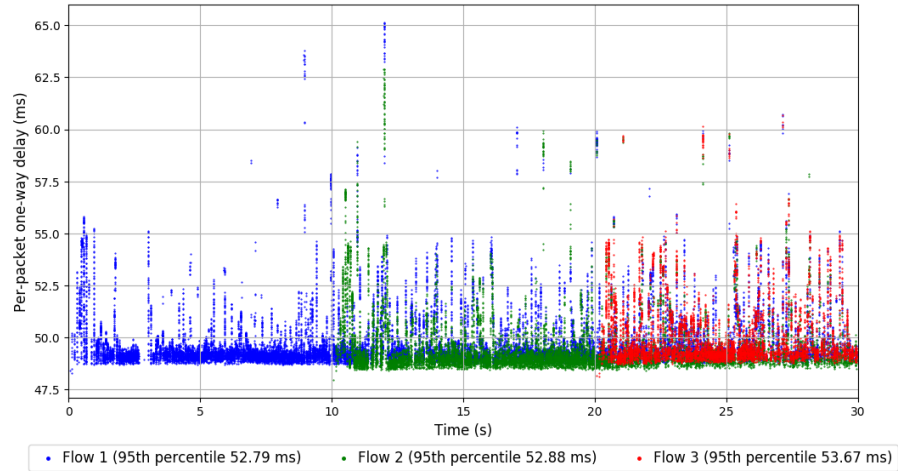
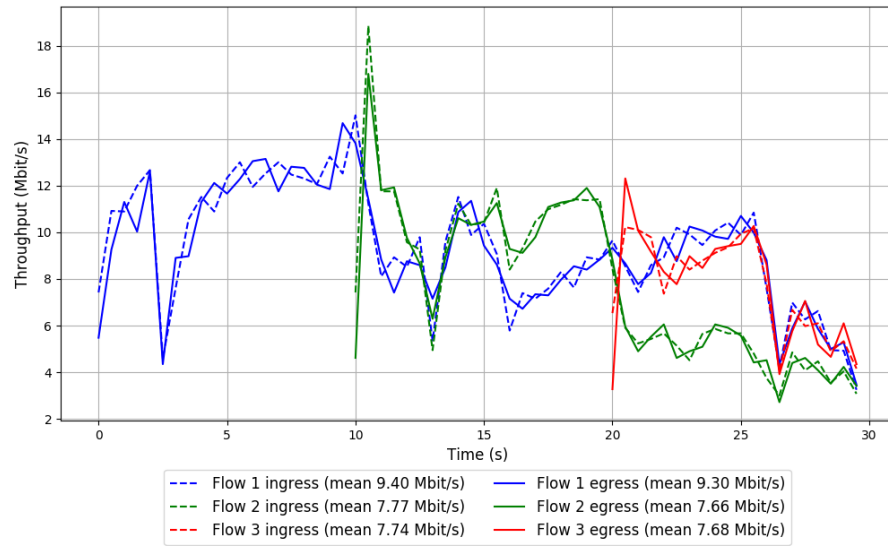
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 53.672 ms

Loss rate: 0.83%

Run 1: Report of TCP Cubic — Data Link

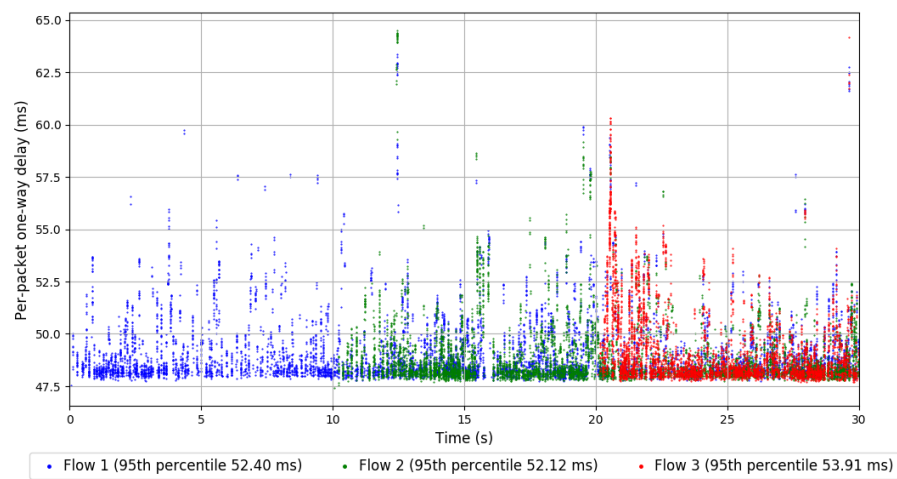
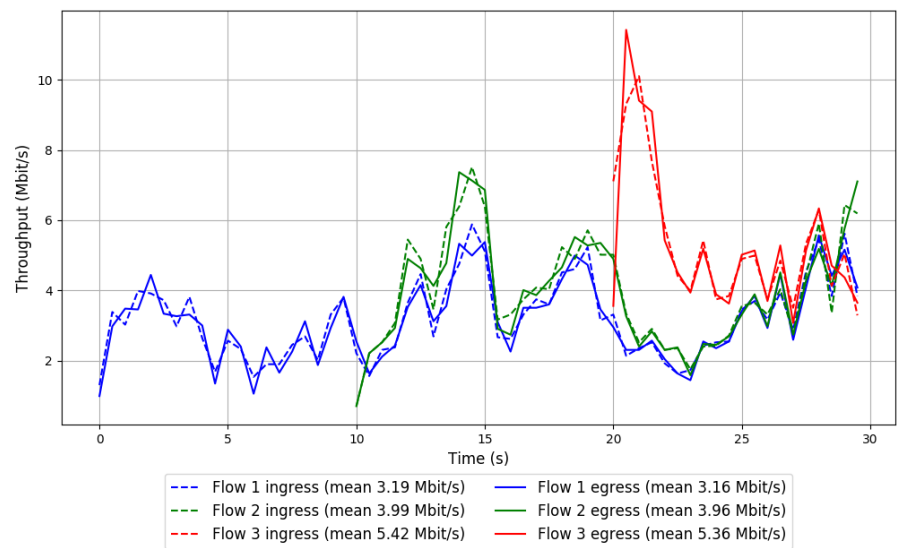


Run 2: Statistics of TCP Cubic

Start at: 2017-09-23 19:11:12
End at: 2017-09-23 19:11:42
Local clock offset: -0.731 ms
Remote clock offset: 1.593 ms

Below is generated by plot.py at 2017-09-23 22:18:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 52.738 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 3.16 Mbit/s
95th percentile per-packet one-way delay: 52.399 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 52.121 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.98%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-23 19:31:25

End at: 2017-09-23 19:31:55

Local clock offset: -1.538 ms

Remote clock offset: 1.477 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.03 Mbit/s

95th percentile per-packet one-way delay: 53.058 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 53.390 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 52.483 ms

Loss rate: 0.45%

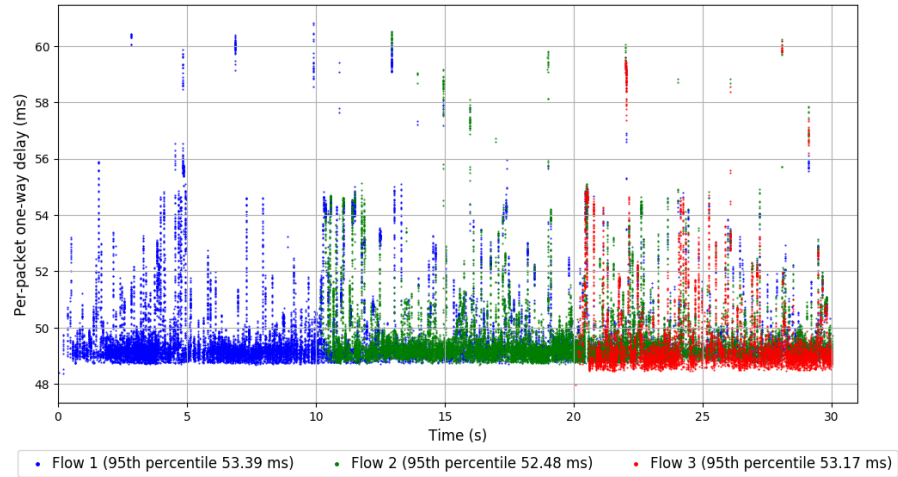
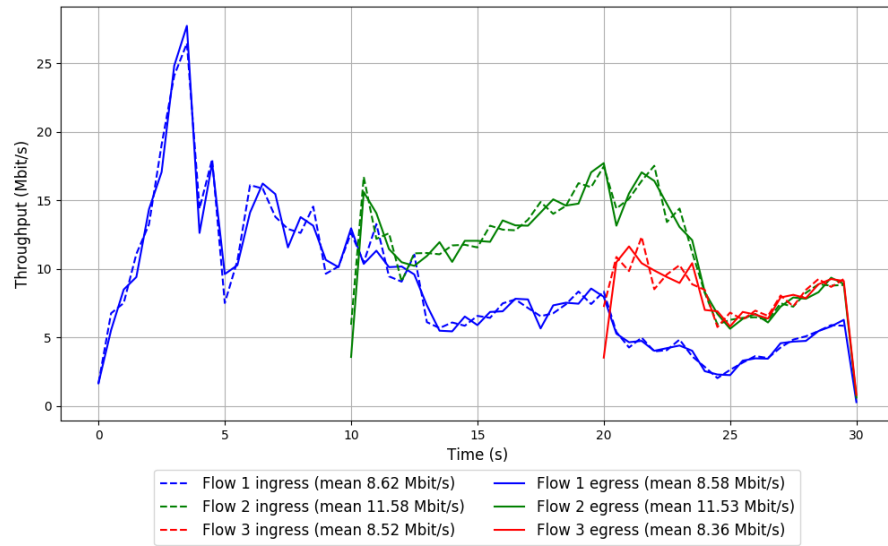
-- Flow 3:

Average throughput: 8.36 Mbit/s

95th percentile per-packet one-way delay: 53.175 ms

Loss rate: 1.81%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-23 19:49:41

End at: 2017-09-23 19:50:11

Local clock offset: -1.386 ms

Remote clock offset: 1.249 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 53.166 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 52.325 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 1.61%

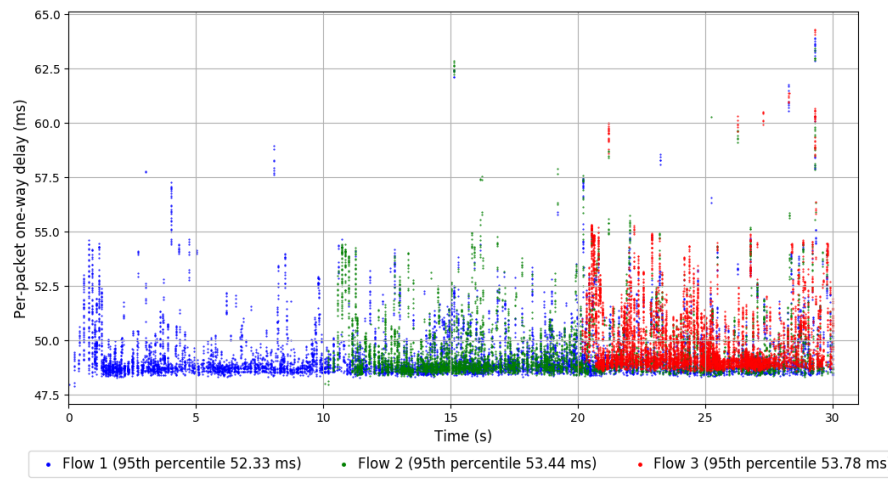
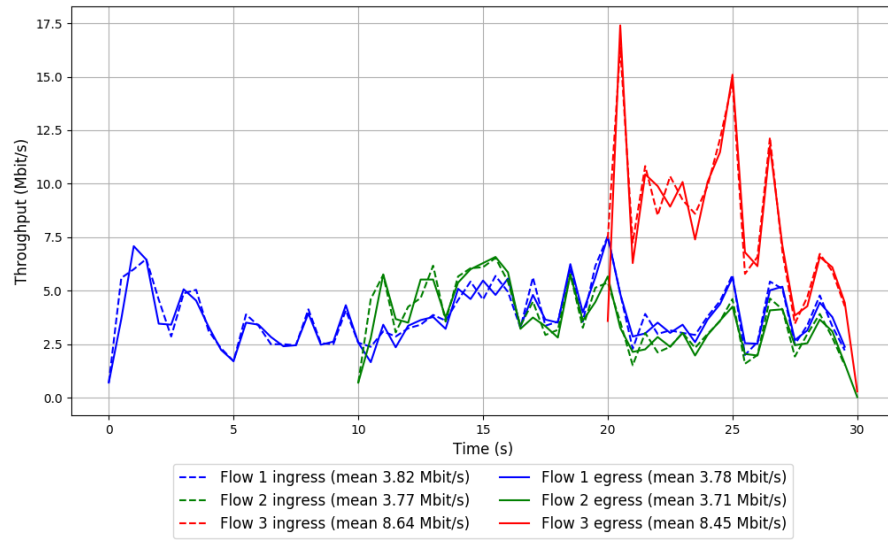
-- Flow 3:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 53.779 ms

Loss rate: 2.17%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-23 20:11:19

End at: 2017-09-23 20:11:49

Local clock offset: -1.563 ms

Remote clock offset: 0.95 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 52.755 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 52.778 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 52.805 ms

Loss rate: 1.14%

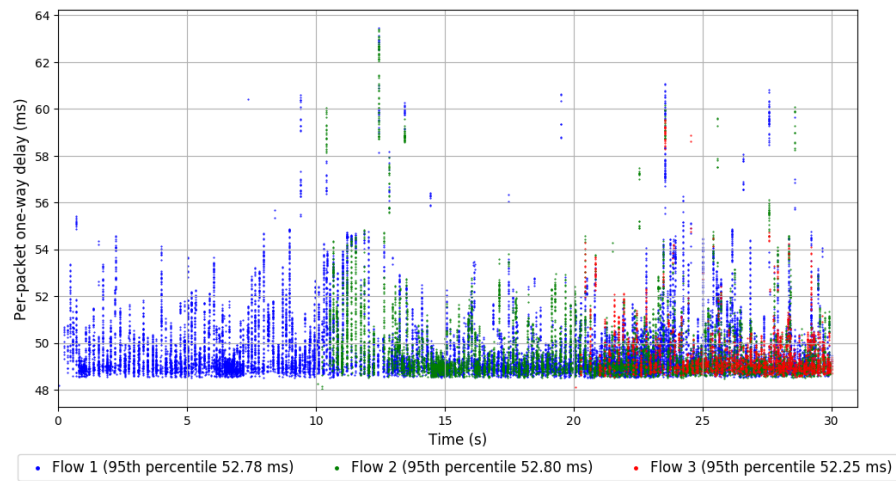
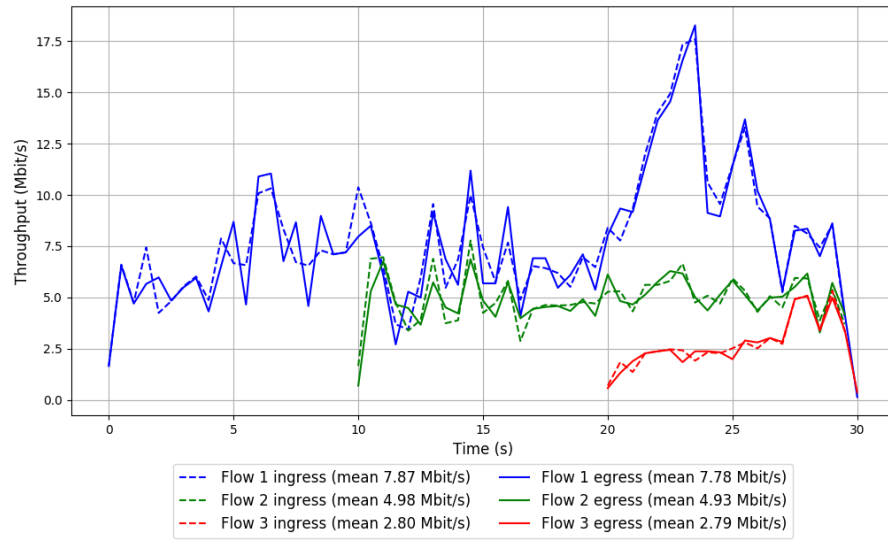
-- Flow 3:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 52.254 ms

Loss rate: 0.30%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-23 20:38:14

End at: 2017-09-23 20:38:44

Local clock offset: -0.874 ms

Remote clock offset: 0.518 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 52.487 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 51.508 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 53.425 ms

Loss rate: 2.88%

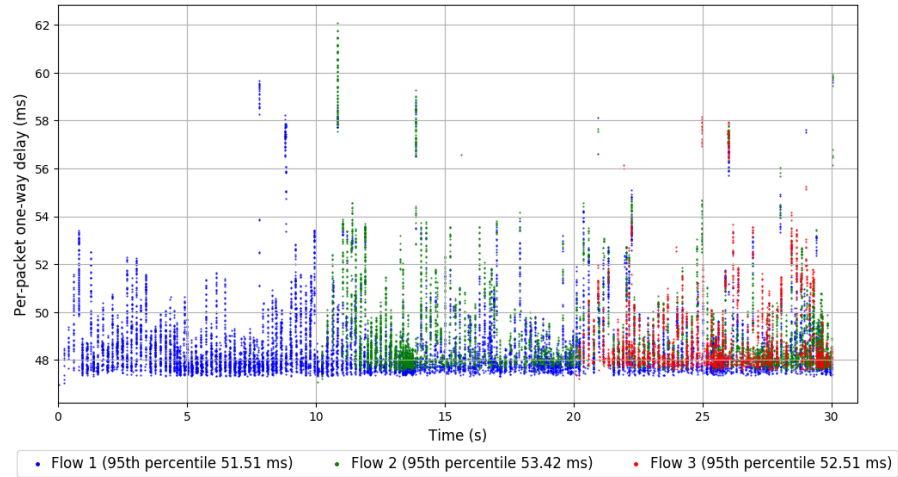
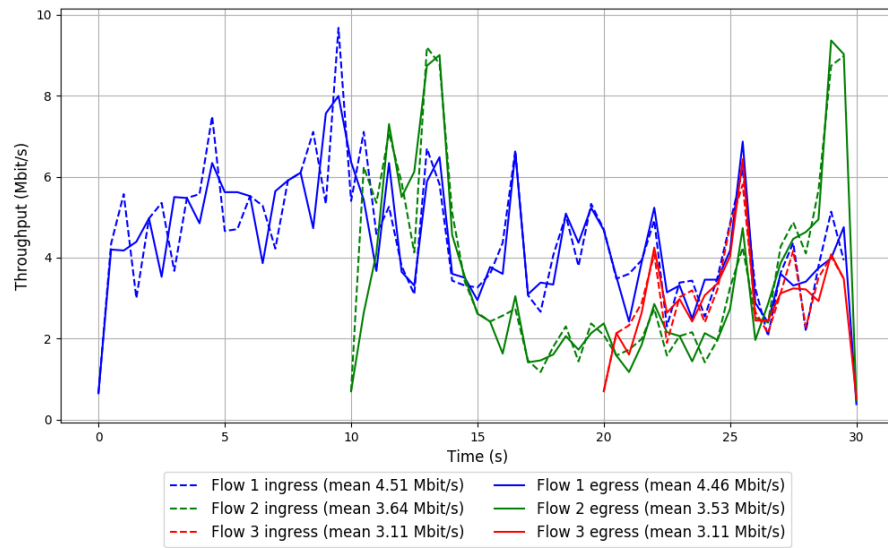
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 52.511 ms

Loss rate: 0.16%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-23 21:01:45

End at: 2017-09-23 21:02:15

Local clock offset: -2.43 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 53.279 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 53.065 ms

Loss rate: 0.96%

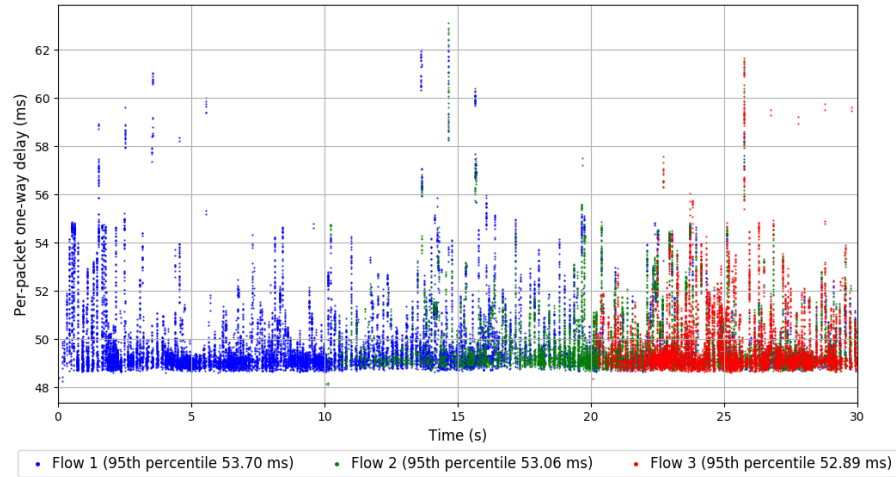
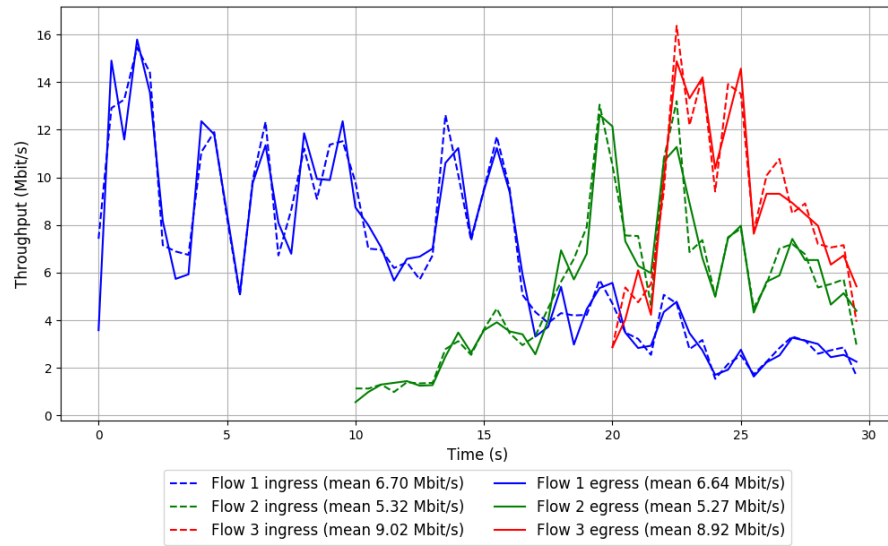
-- Flow 3:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 52.887 ms

Loss rate: 1.03%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-23 21:22:27

End at: 2017-09-23 21:22:57

Local clock offset: -1.64 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 52.336 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 51.426 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 52.385 ms

Loss rate: 1.51%

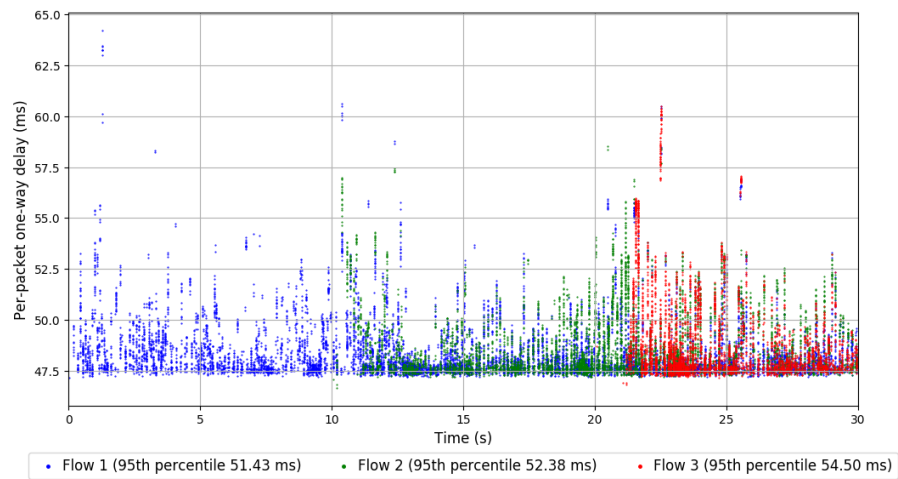
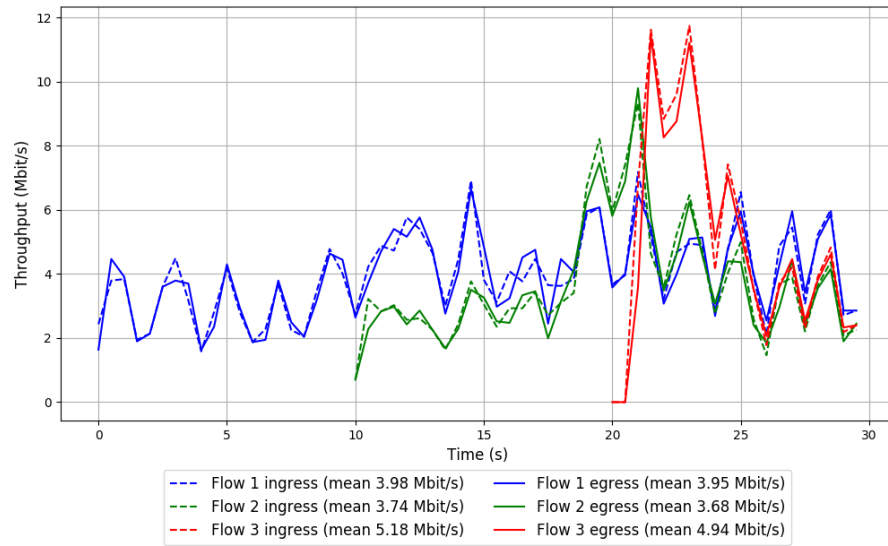
-- Flow 3:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 54.502 ms

Loss rate: 4.53%

Run 8: Report of TCP Cubic — Data Link

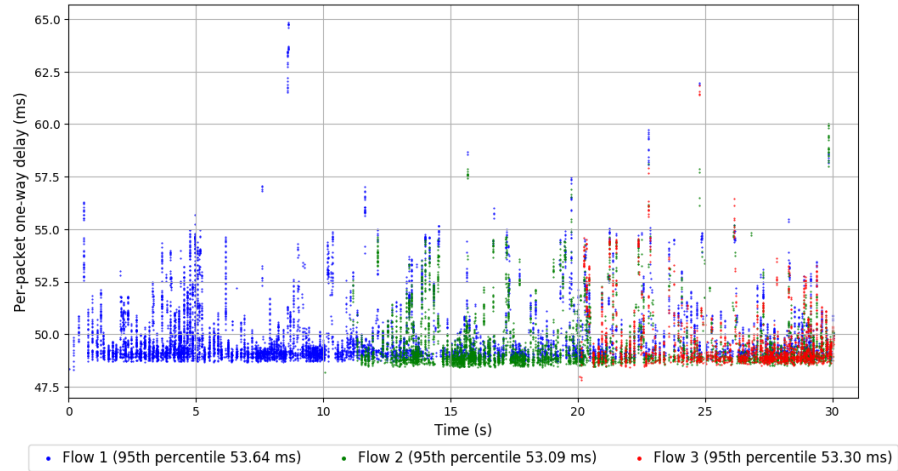
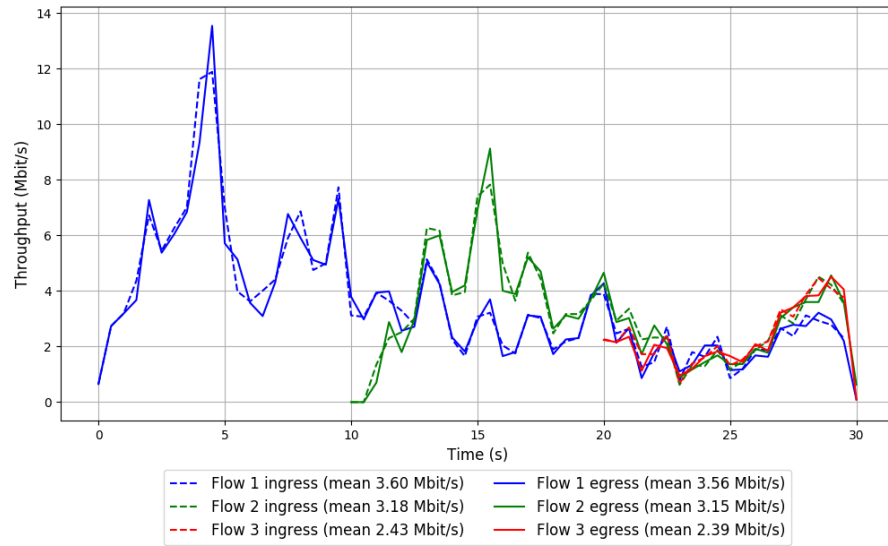


Run 9: Statistics of TCP Cubic

Start at: 2017-09-23 21:42:33
End at: 2017-09-23 21:43:03
Local clock offset: -3.196 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2017-09-23 22:18:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 53.424 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 53.637 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 53.086 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 53.301 ms
Loss rate: 1.69%

Run 9: Report of TCP Cubic — Data Link

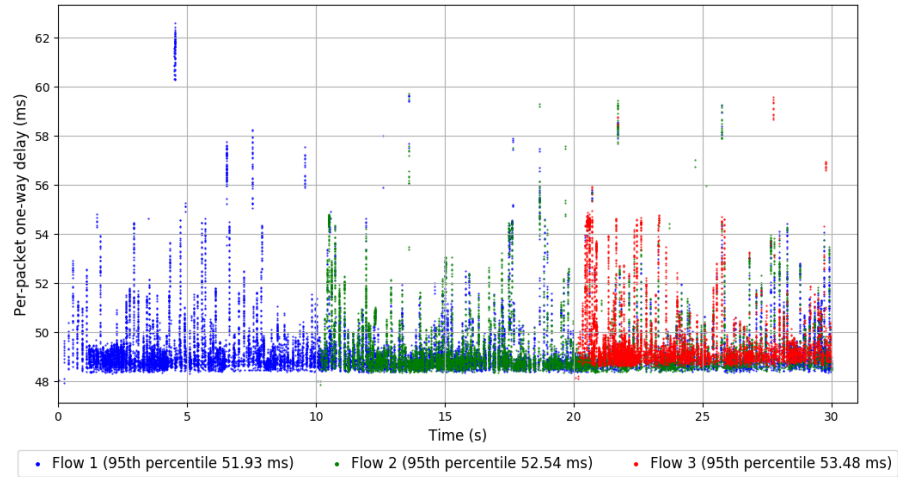
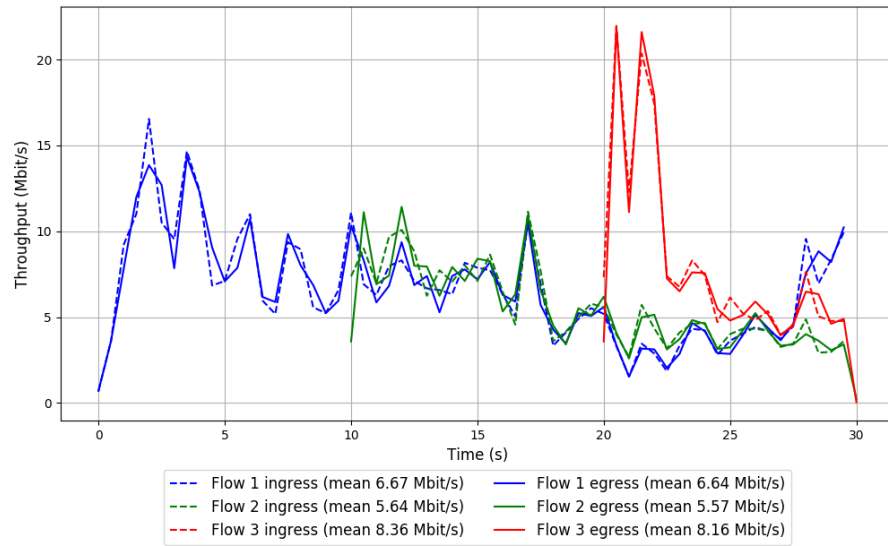


Run 10: Statistics of TCP Cubic

Start at: 2017-09-23 22:04:54
End at: 2017-09-23 22:05:24
Local clock offset: -3.123 ms
Remote clock offset: -0.345 ms

Below is generated by plot.py at 2017-09-23 22:18:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 52.570 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 51.931 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 52.544 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 53.483 ms
Loss rate: 2.31%

Run 10: Report of TCP Cubic — Data Link

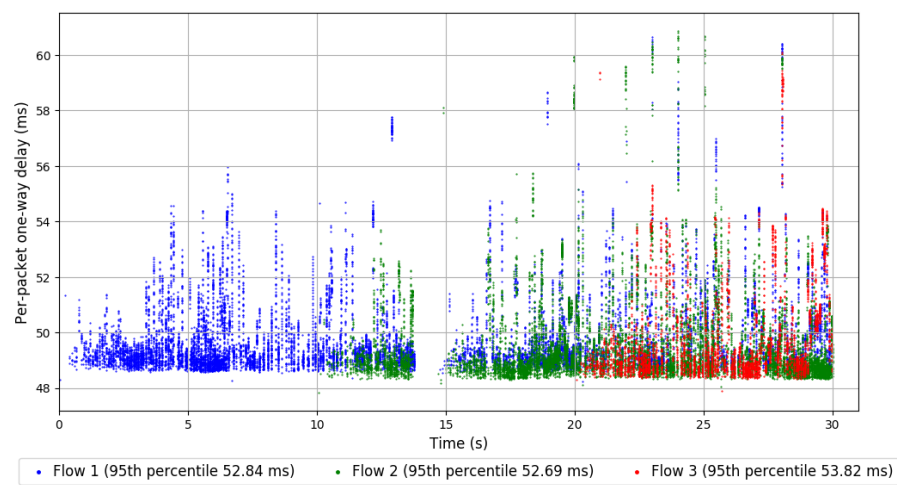
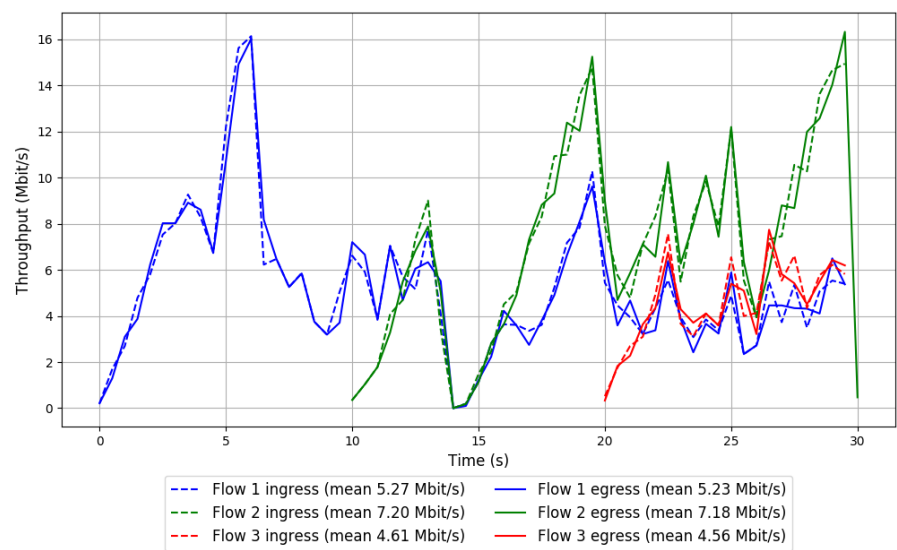


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-23 18:50:21
End at: 2017-09-23 18:50:51
Local clock offset: -2.023 ms
Remote clock offset: 1.208 ms

# Below is generated by plot.py at 2017-09-23 22:18:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 52.977 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 52.839 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 52.694 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 1.13%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-23 19:09:48

End at: 2017-09-23 19:10:18

Local clock offset: -0.57 ms

Remote clock offset: 1.502 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 53.808 ms

Loss rate: 2.14%

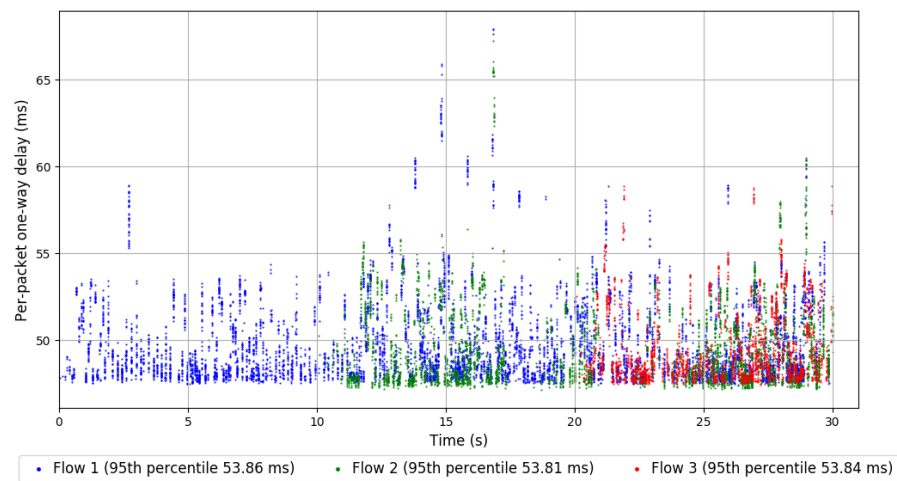
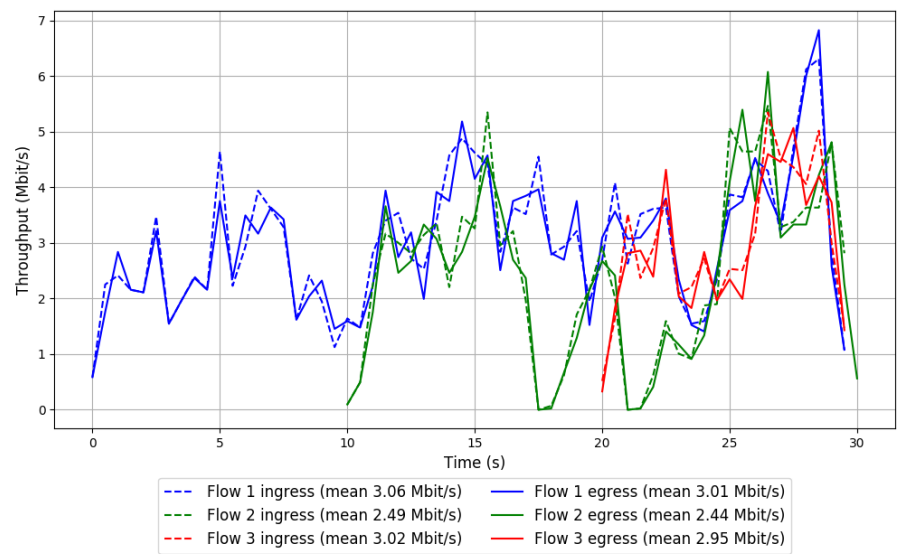
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 2.28%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-23 19:30:11

End at: 2017-09-23 19:30:41

Local clock offset: -1.451 ms

Remote clock offset: 1.517 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 52.956 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 52.919 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 53.210 ms

Loss rate: 0.52%

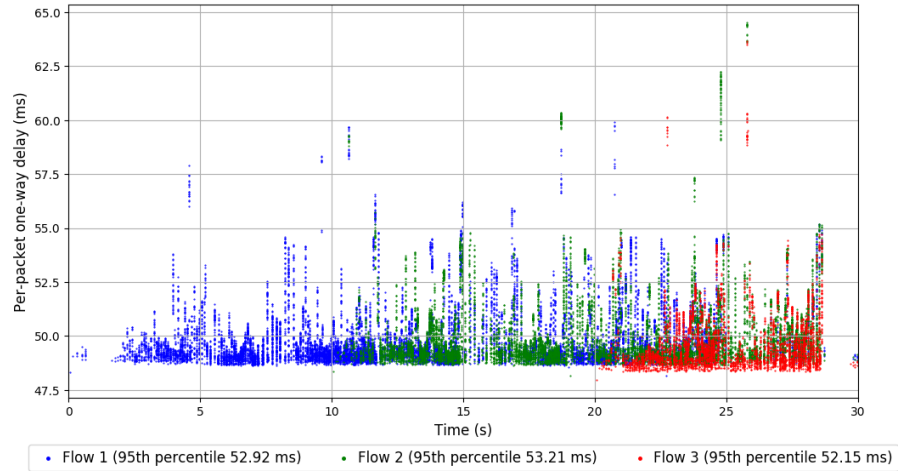
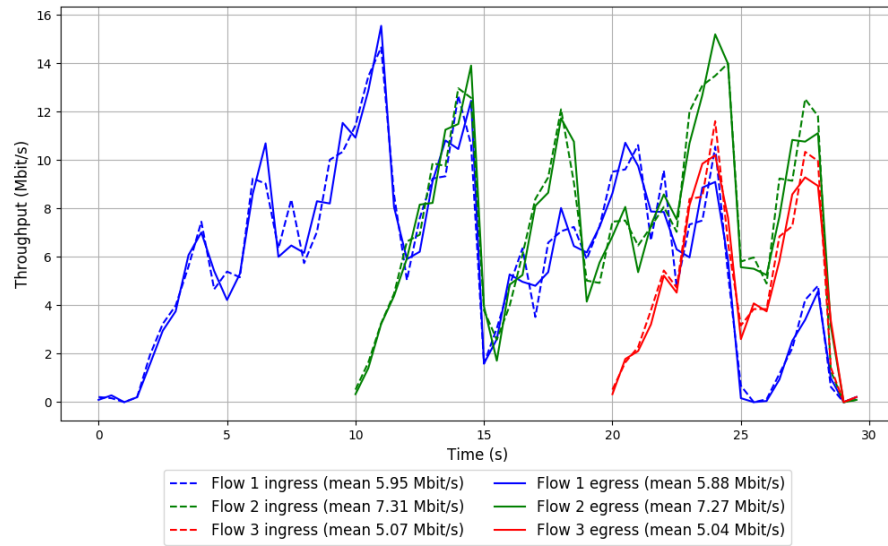
-- Flow 3:

Average throughput: 5.04 Mbit/s

95th percentile per-packet one-way delay: 52.145 ms

Loss rate: 0.72%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-23 19:48:24

End at: 2017-09-23 19:48:54

Local clock offset: -1.466 ms

Remote clock offset: 1.33 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 52.736 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 52.987 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 52.130 ms

Loss rate: 0.48%

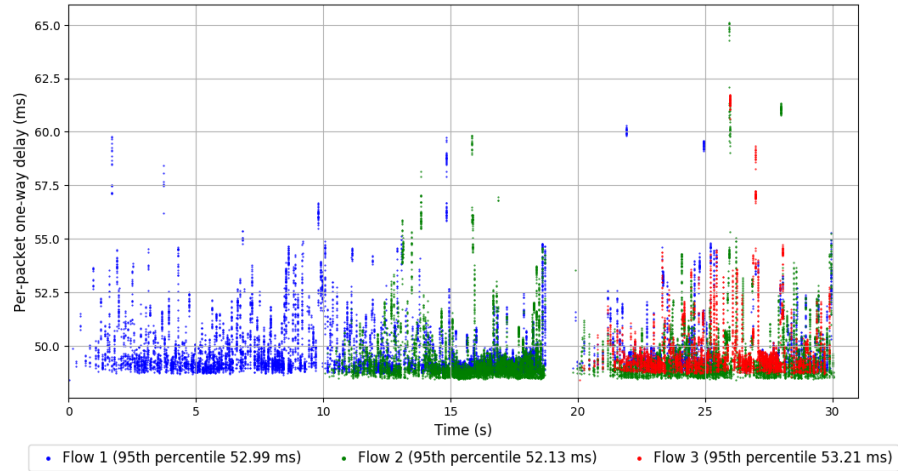
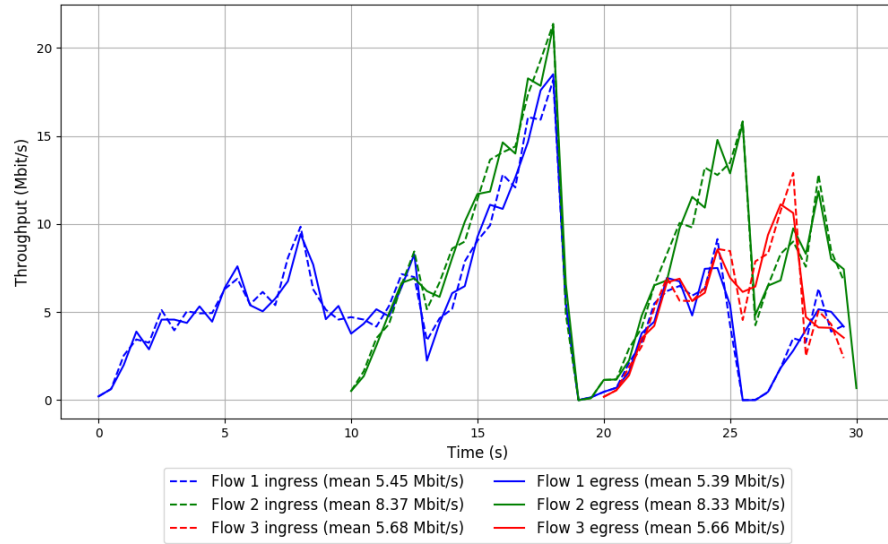
-- Flow 3:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.30%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-23 20:09:45

End at: 2017-09-23 20:10:15

Local clock offset: -1.578 ms

Remote clock offset: 0.942 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 52.576 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 52.559 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 53.044 ms

Loss rate: 1.75%

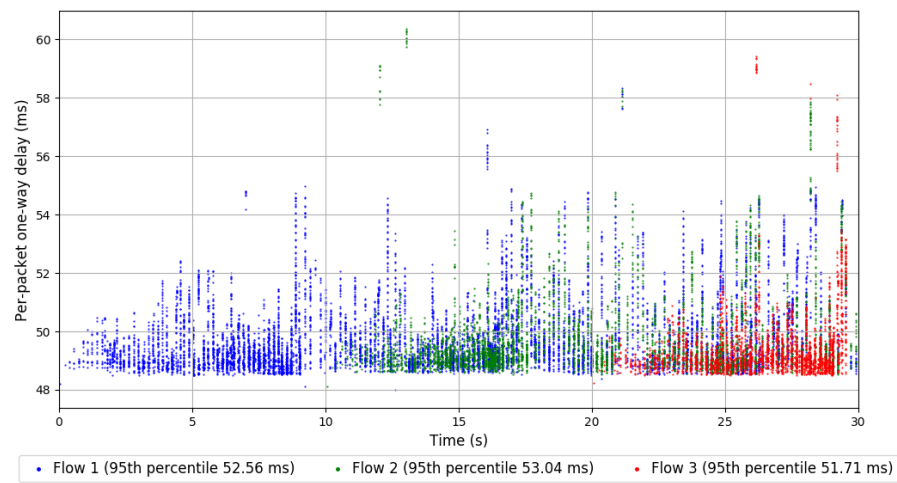
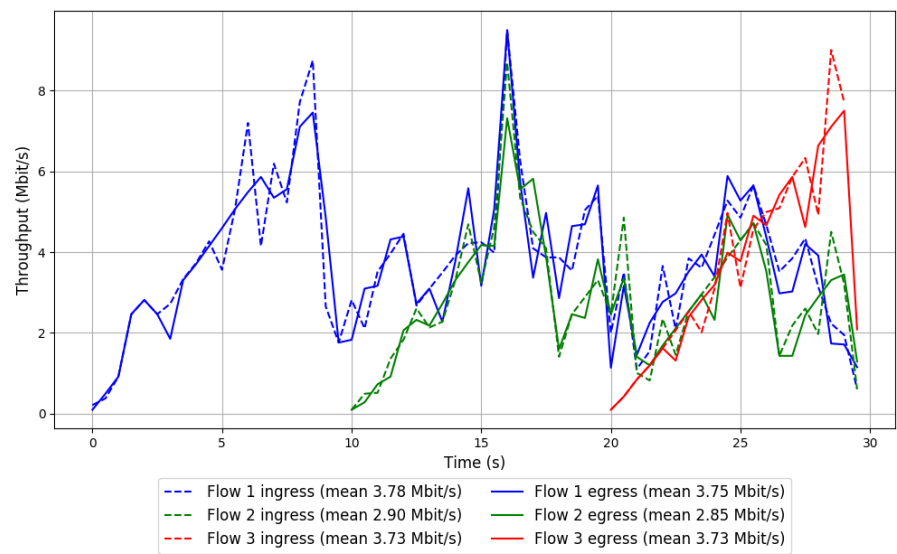
-- Flow 3:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 51.708 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-23 20:36:13

End at: 2017-09-23 20:36:43

Local clock offset: -2.005 ms

Remote clock offset: 0.583 ms

Below is generated by plot.py at 2017-09-23 22:18:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.69 Mbit/s

95th percentile per-packet one-way delay: 52.199 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 52.182 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 52.227 ms

Loss rate: 0.51%

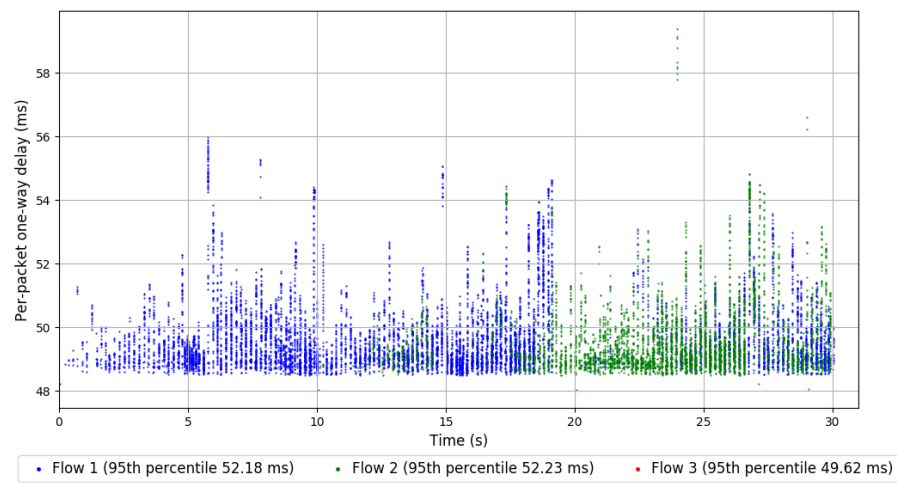
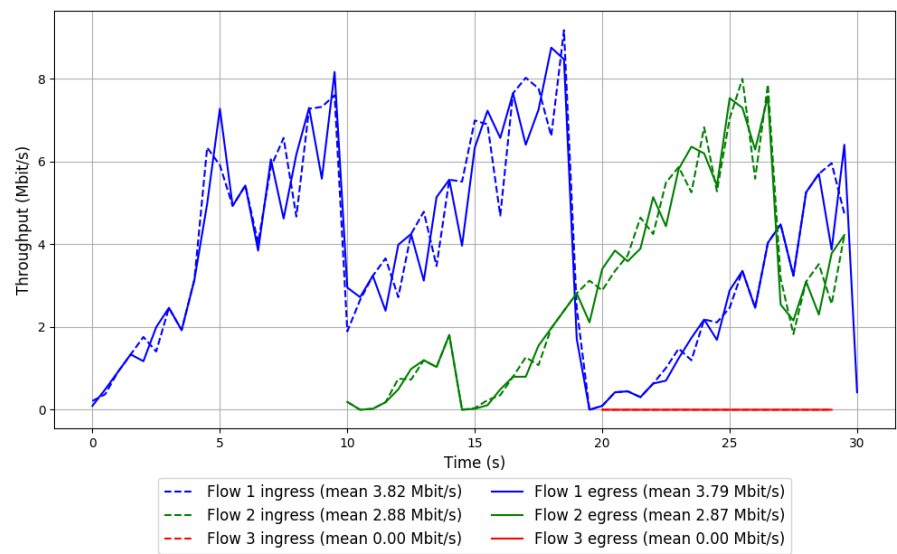
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 49.625 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

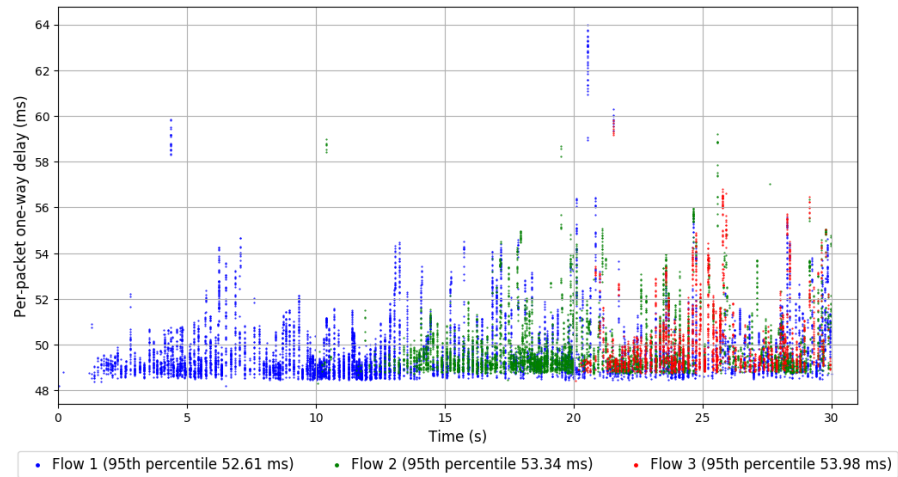
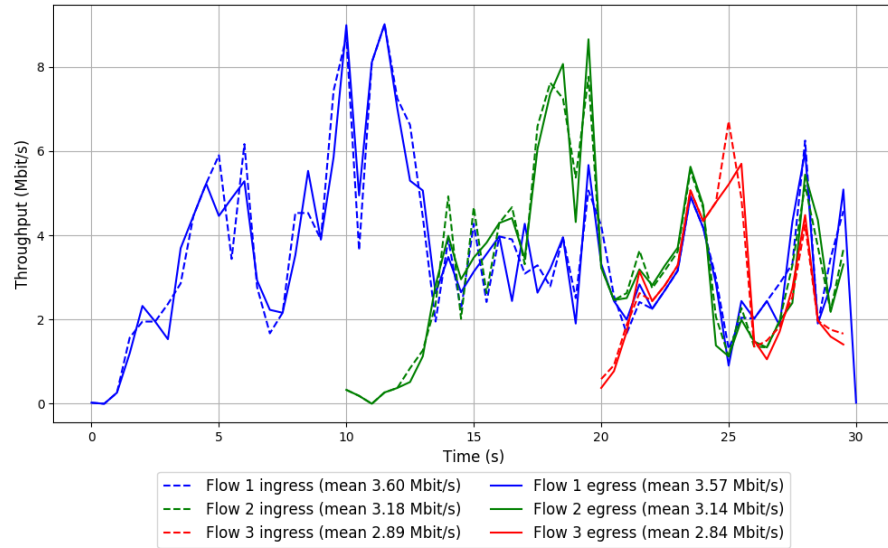


Run 7: Statistics of LEDBAT

Start at: 2017-09-23 21:00:22
End at: 2017-09-23 21:00:52
Local clock offset: -2.484 ms
Remote clock offset: 0.175 ms

Below is generated by plot.py at 2017-09-23 22:18:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 53.109 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 52.608 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 53.335 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 53.976 ms
Loss rate: 1.85%

Run 7: Report of LEDBAT — Data Link

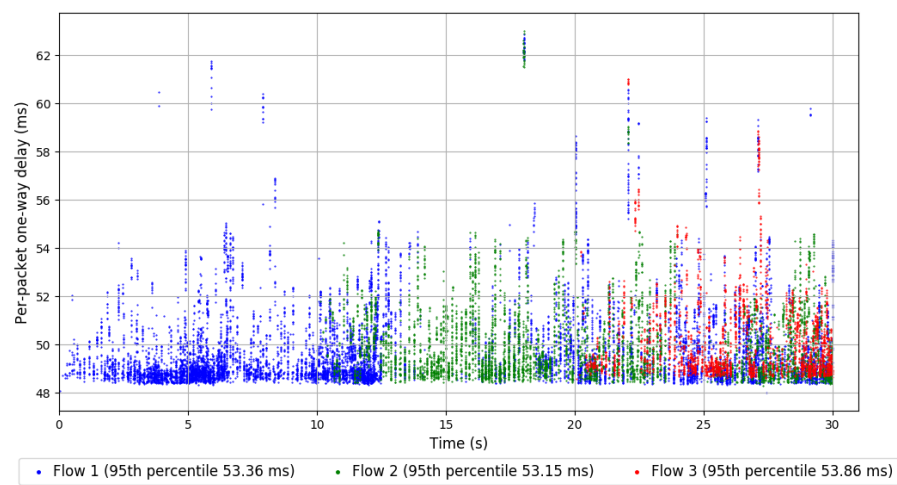
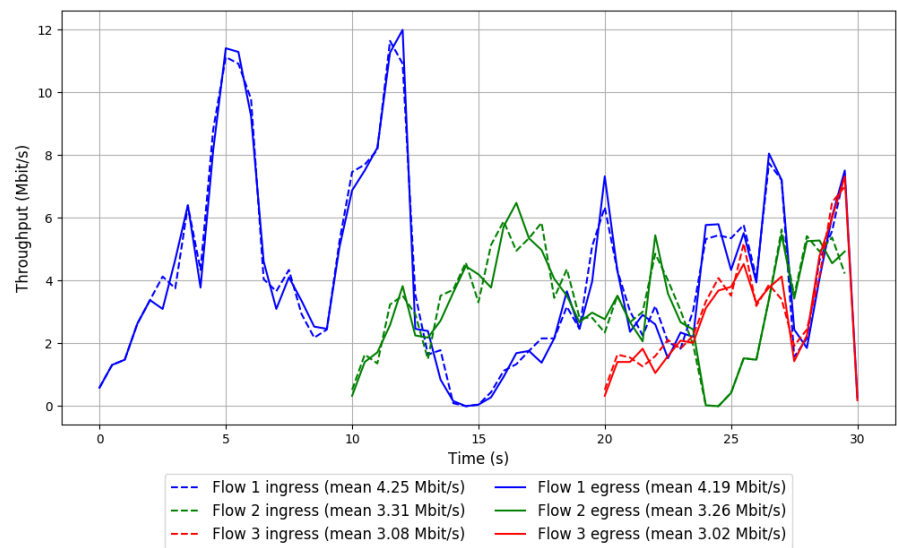


Run 8: Statistics of LEDBAT

Start at: 2017-09-23 21:21:11
End at: 2017-09-23 21:21:41
Local clock offset: -2.84 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2017-09-23 22:18:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 53.309 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 53.361 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 53.154 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 2.10%

Run 8: Report of LEDBAT — Data Link

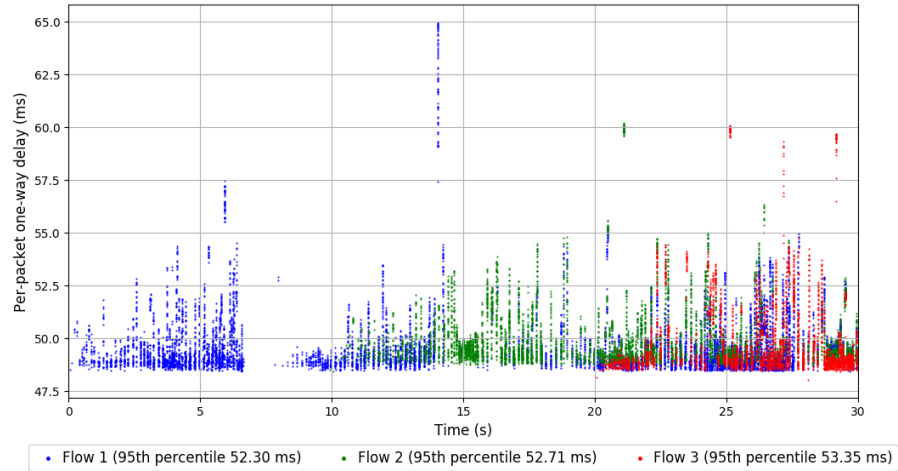
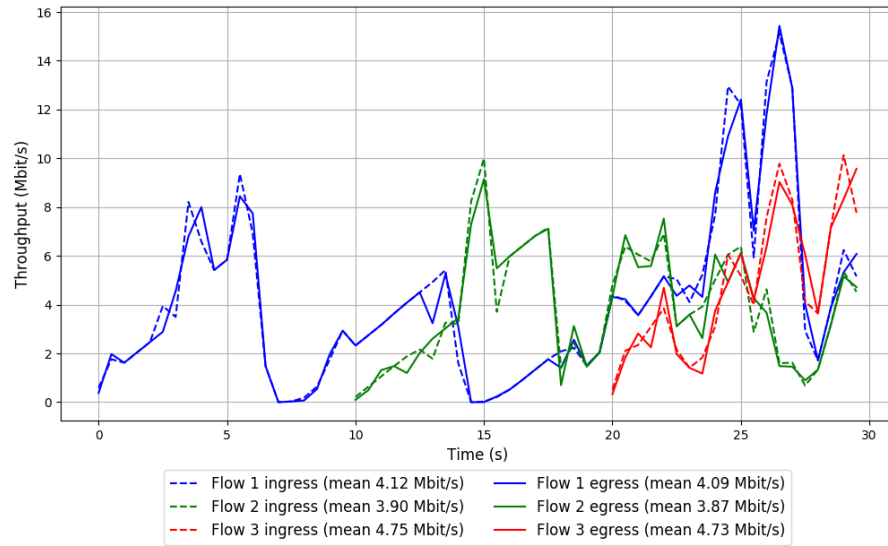


Run 9: Statistics of LEDBAT

Start at: 2017-09-23 21:41:11
End at: 2017-09-23 21:41:41
Local clock offset: -3.203 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2017-09-23 22:18:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 52.720 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 52.297 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 52.712 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 4.73 Mbit/s
95th percentile per-packet one-way delay: 53.351 ms
Loss rate: 0.45%

Run 9: Report of LEDBAT — Data Link

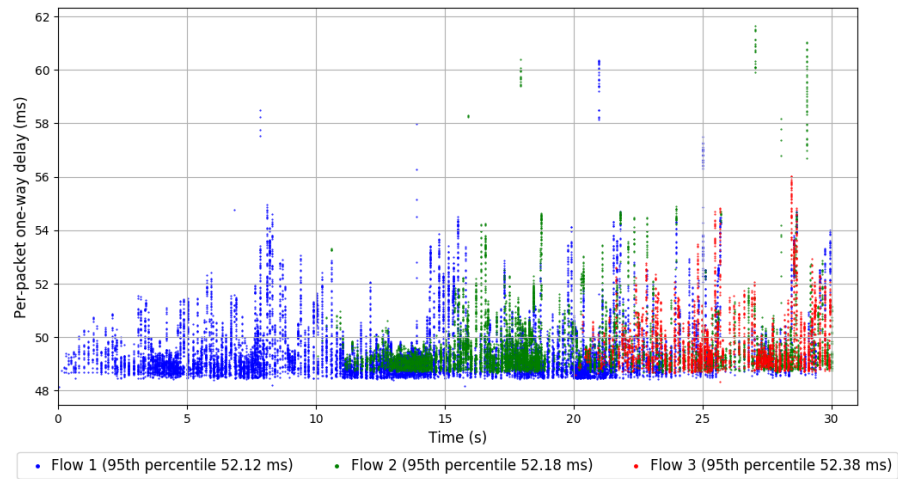
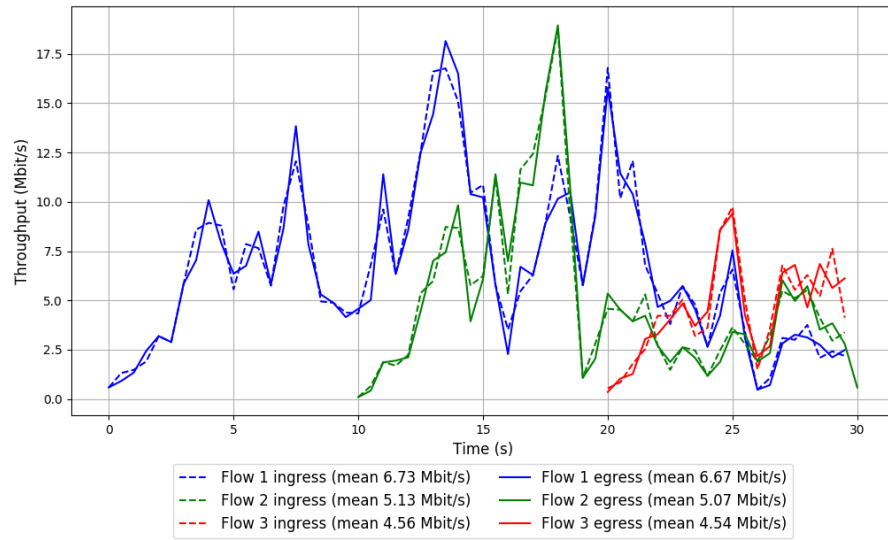


Run 10: Statistics of LEDBAT

Start at: 2017-09-23 22:03:30
End at: 2017-09-23 22:04:00
Local clock offset: -3.219 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2017-09-23 22:19:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 52.169 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 52.115 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 52.177 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 52.381 ms
Loss rate: 0.44%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-09-23 18:52:47

End at: 2017-09-23 18:53:17

Local clock offset: -2.175 ms

Remote clock offset: 1.207 ms

Below is generated by plot.py at 2017-09-23 22:19:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.54 Mbit/s

95th percentile per-packet one-way delay: 66.197 ms

Loss rate: 2.94%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 65.482 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 65.956 ms

Loss rate: 2.76%

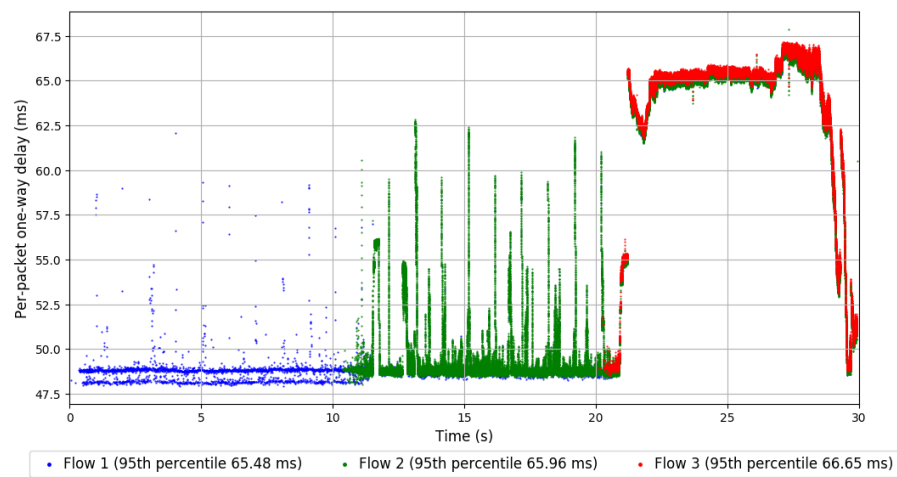
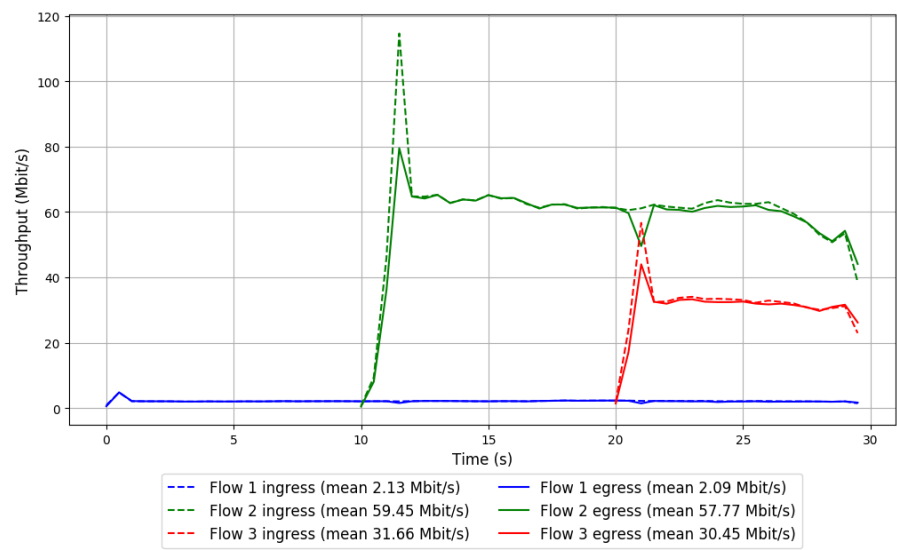
-- Flow 3:

Average throughput: 30.45 Mbit/s

95th percentile per-packet one-way delay: 66.654 ms

Loss rate: 3.81%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-23 19:12:29

End at: 2017-09-23 19:12:59

Local clock offset: -1.854 ms

Remote clock offset: 1.495 ms

Below is generated by plot.py at 2017-09-23 22:19:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 54.194 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 53.878 ms

Loss rate: 0.00%

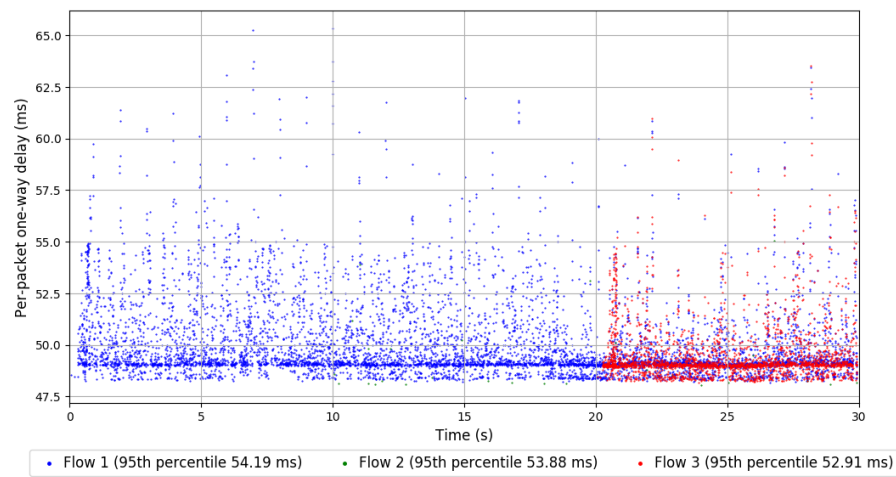
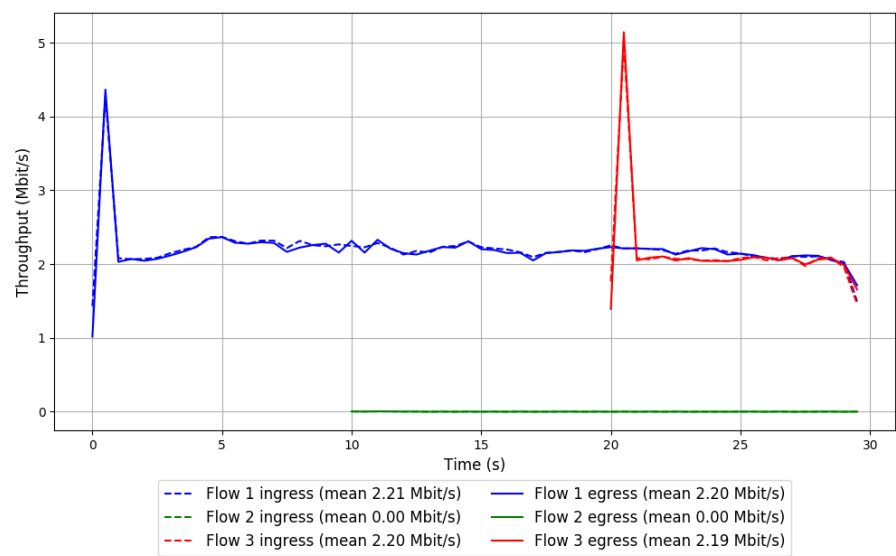
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 52.911 ms

Loss rate: 0.11%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-23 19:32:41

End at: 2017-09-23 19:33:12

Local clock offset: -1.549 ms

Remote clock offset: 1.478 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 59.221 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 72.28 Mbit/s

95th percentile per-packet one-way delay: 59.113 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 15.81 Mbit/s

95th percentile per-packet one-way delay: 59.769 ms

Loss rate: 0.86%

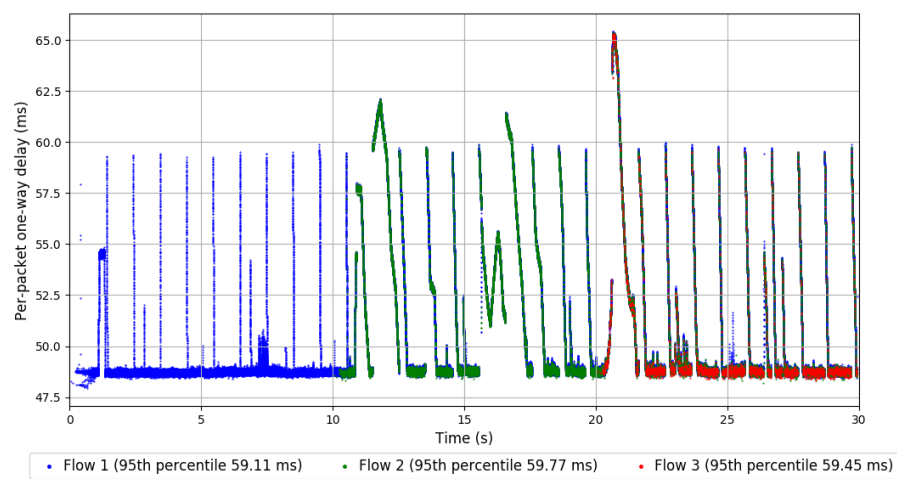
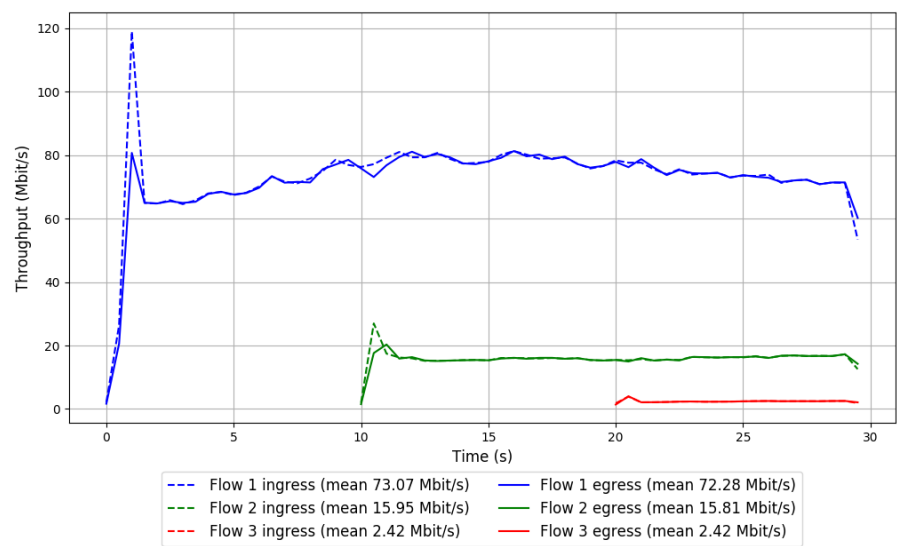
-- Flow 3:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 59.455 ms

Loss rate: 0.10%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-23 19:51:03

End at: 2017-09-23 19:51:33

Local clock offset: -1.474 ms

Remote clock offset: 1.25 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 51.952 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 52.122 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 51.789 ms

Loss rate: 0.23%

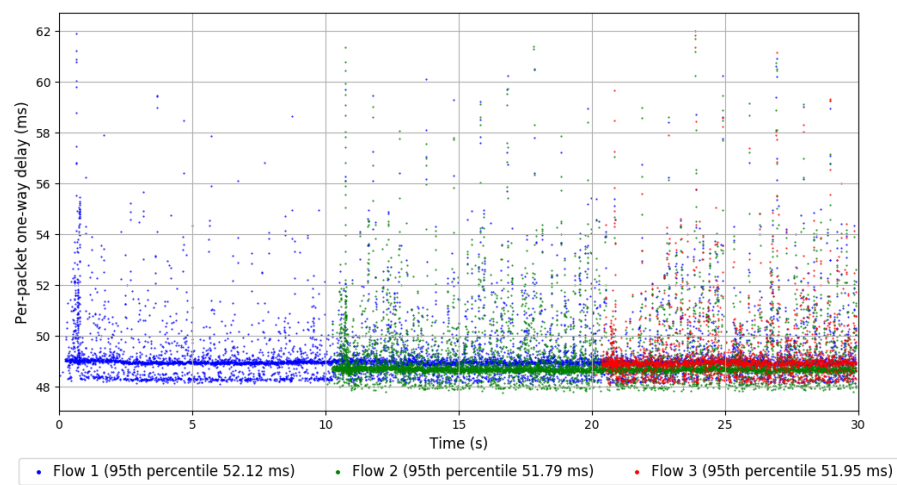
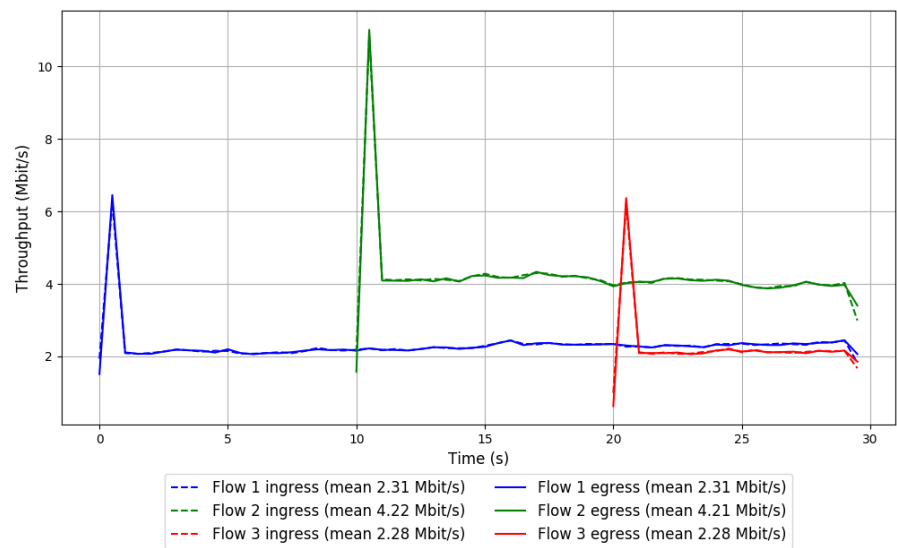
-- Flow 3:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.950 ms

Loss rate: 0.16%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-23 20:12:58

End at: 2017-09-23 20:13:28

Local clock offset: -1.495 ms

Remote clock offset: 0.877 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.73 Mbit/s

95th percentile per-packet one-way delay: 49.782 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 48.943 ms

Loss rate: 0.00%

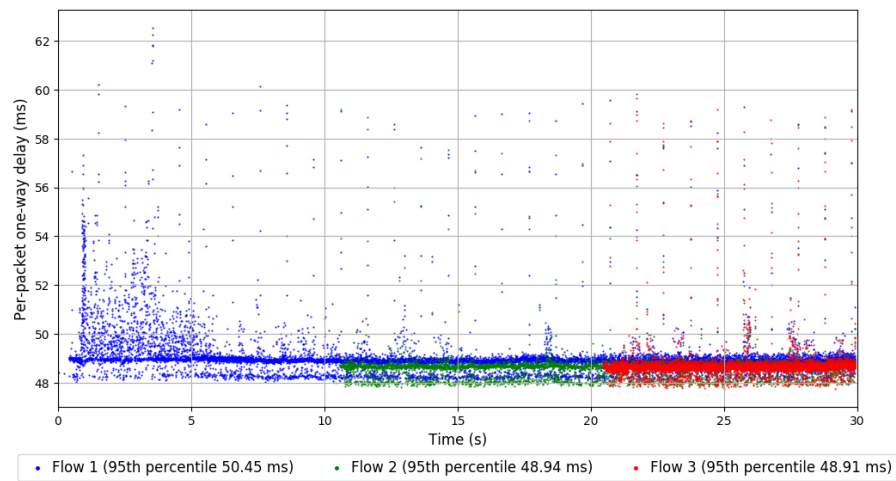
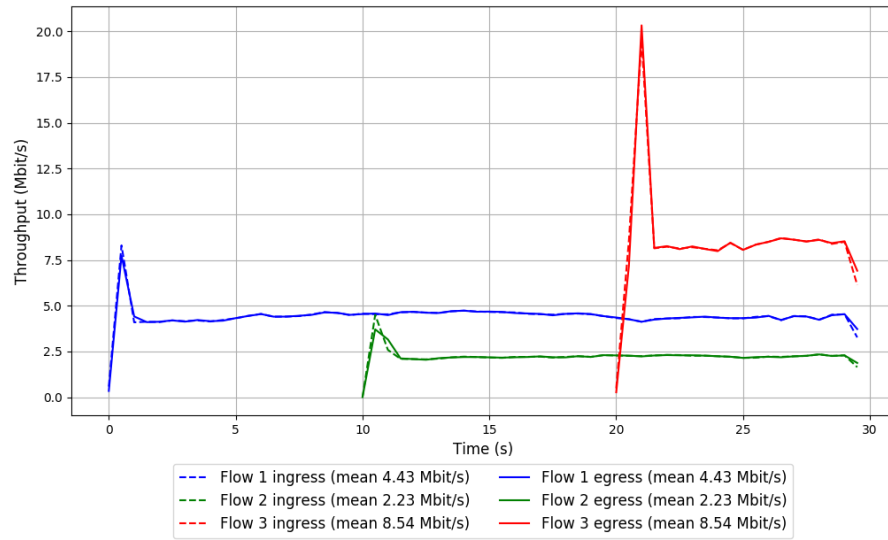
-- Flow 3:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 48.912 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-23 20:40:07

End at: 2017-09-23 20:40:37

Local clock offset: -0.795 ms

Remote clock offset: 0.544 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 47.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 47.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 47.971 ms

Loss rate: 0.00%

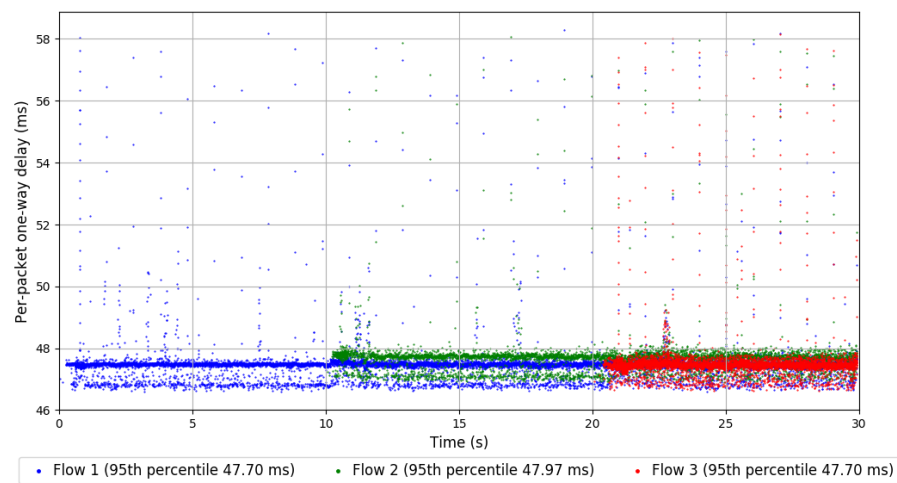
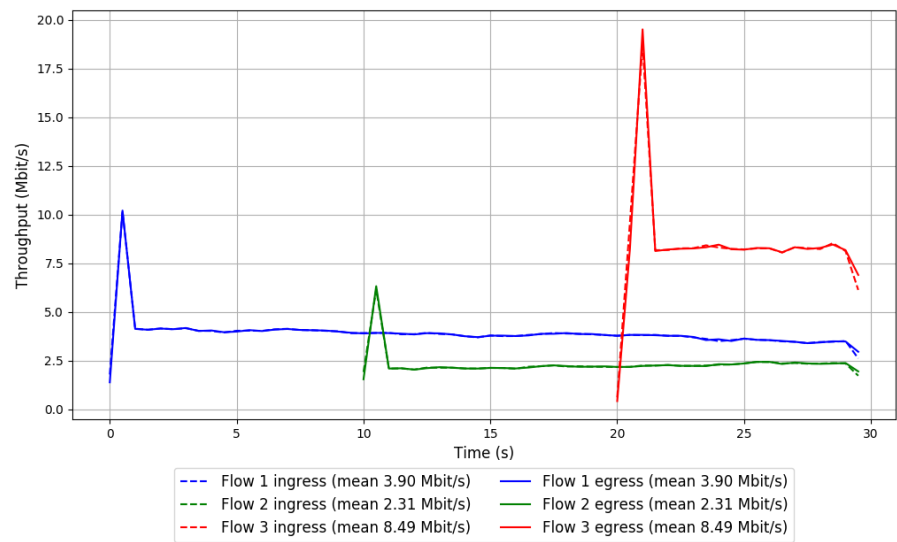
-- Flow 3:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 47.696 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-23 21:03:16

End at: 2017-09-23 21:03:46

Local clock offset: -2.574 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 49.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 49.249 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 49.046 ms

Loss rate: 0.00%

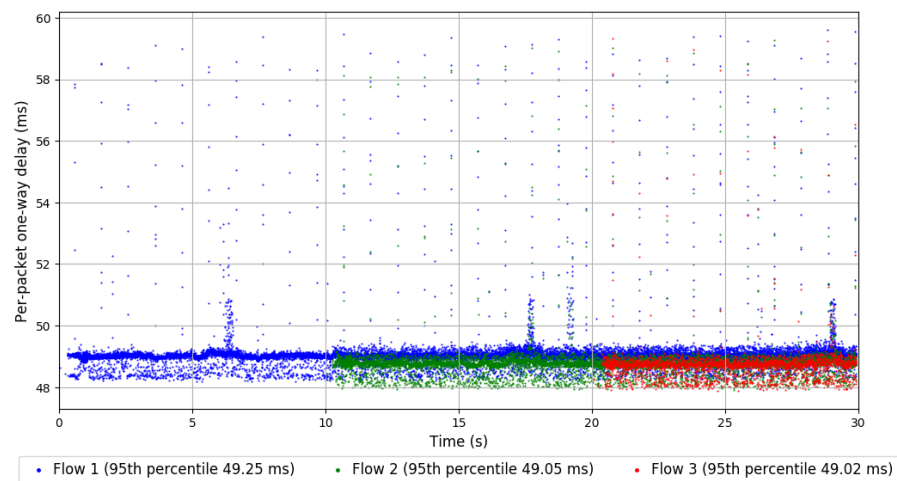
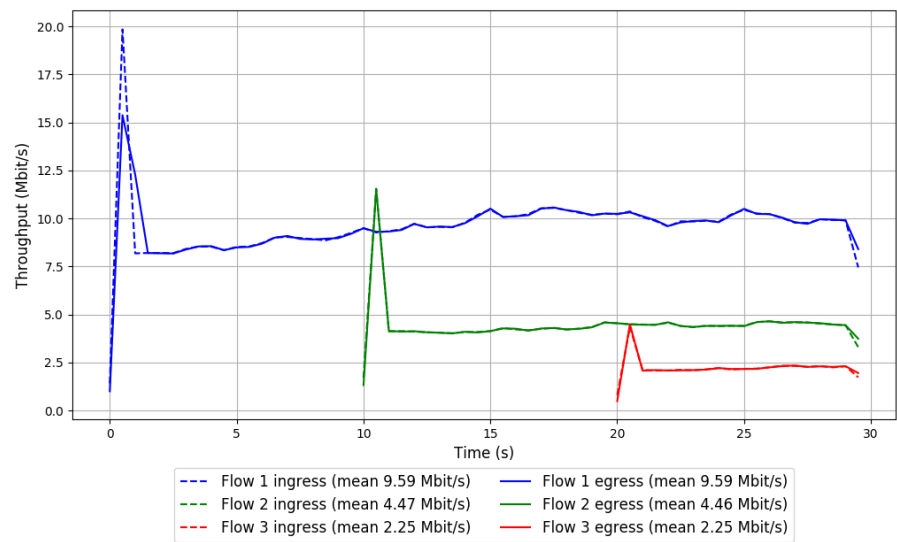
-- Flow 3:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 49.025 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link

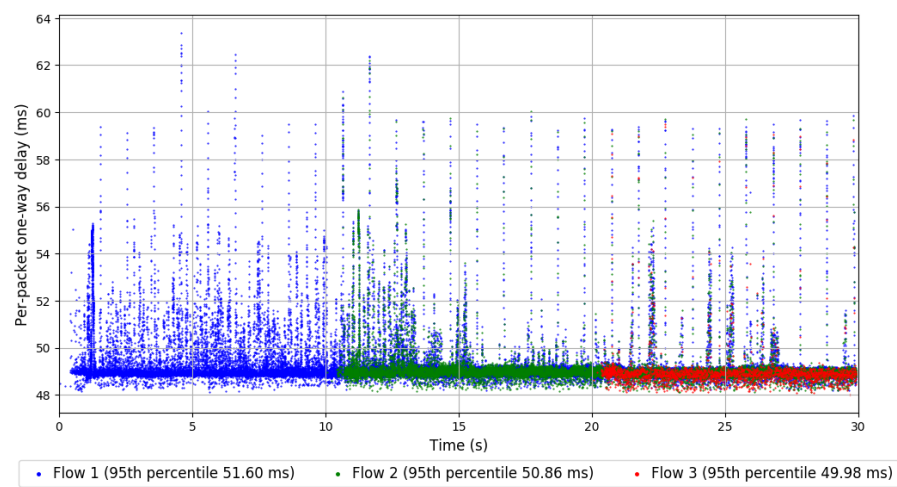
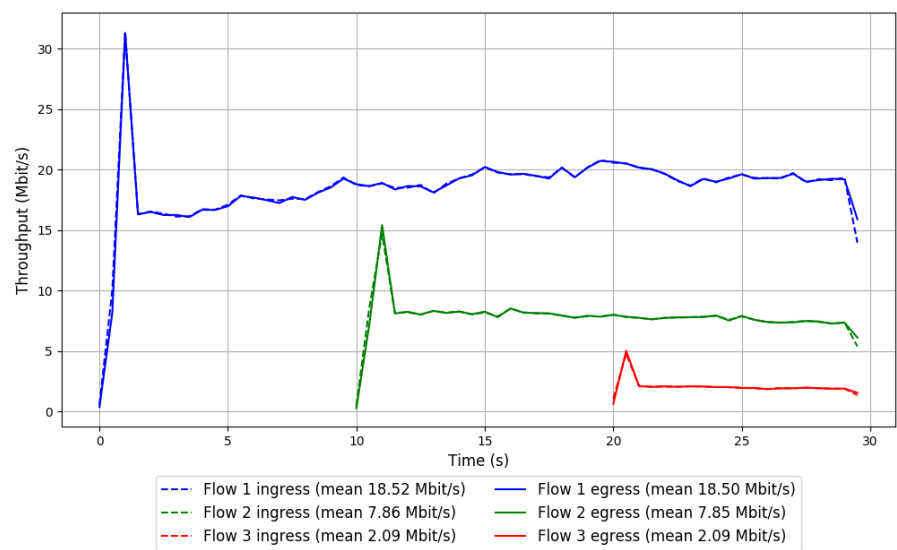


Run 8: Statistics of PCC

Start at: 2017-09-23 21:23:44
End at: 2017-09-23 21:24:14
Local clock offset: -2.906 ms
Remote clock offset: 0.02 ms

Below is generated by plot.py at 2017-09-23 22:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 51.437 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 51.603 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 49.976 ms
Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-23 21:43:53

End at: 2017-09-23 21:44:23

Local clock offset: -1.981 ms

Remote clock offset: -0.19 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.66 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 29.59 Mbit/s

95th percentile per-packet one-way delay: 51.113 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 50.033 ms

Loss rate: 0.00%

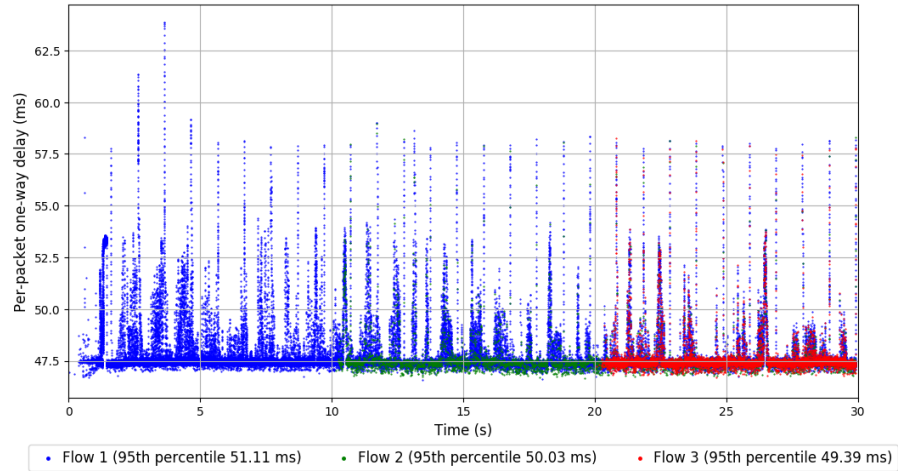
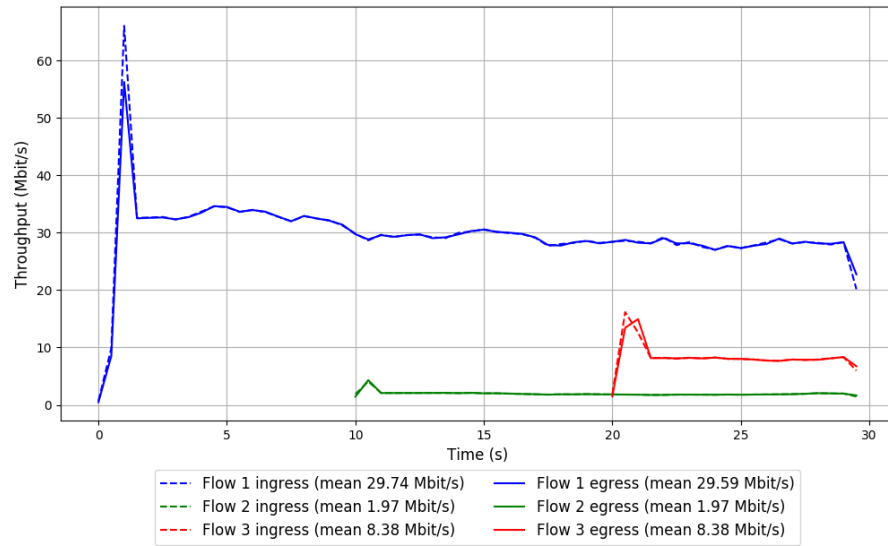
-- Flow 3:

Average throughput: 8.38 Mbit/s

95th percentile per-packet one-way delay: 49.393 ms

Loss rate: 0.03%

Run 9: Report of PCC — Data Link

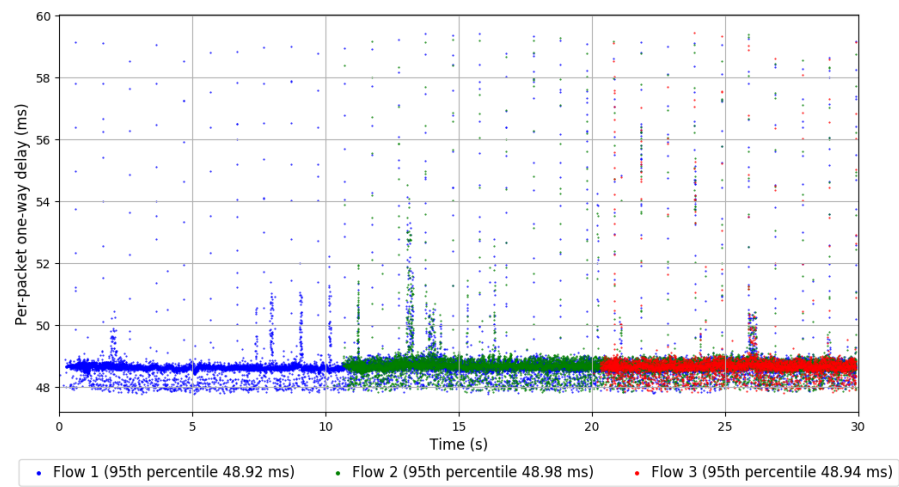
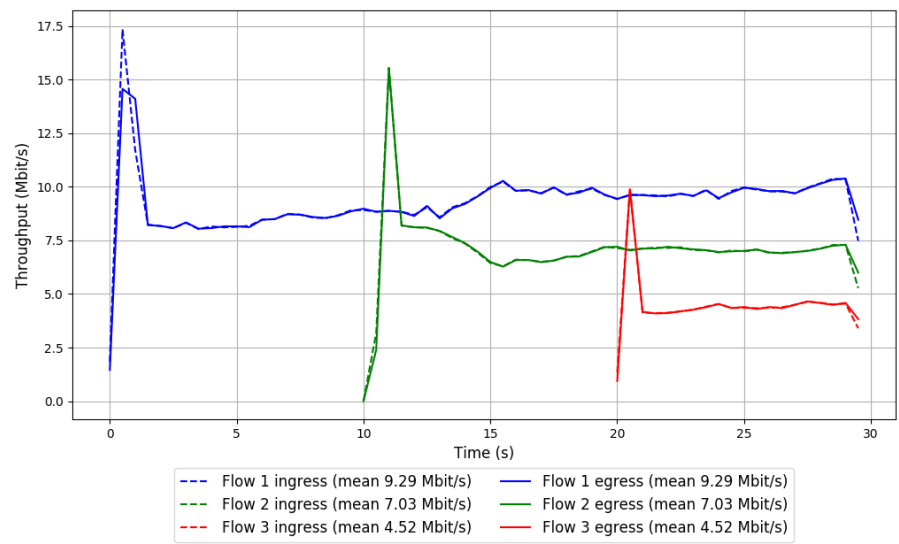


Run 10: Statistics of PCC

Start at: 2017-09-23 22:06:20
End at: 2017-09-23 22:06:50
Local clock offset: -3.1 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2017-09-23 22:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 48.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 48.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 48.978 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 48.939 ms
Loss rate: 0.00%

Run 10: Report of PCC — Data Link

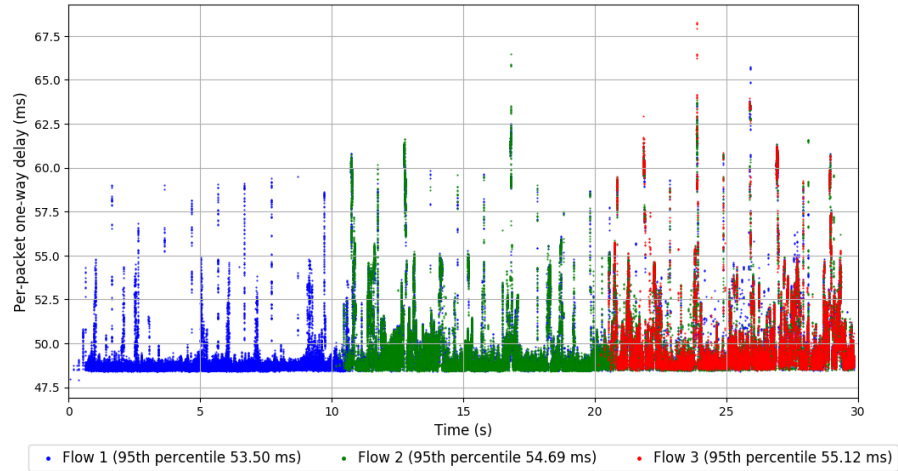
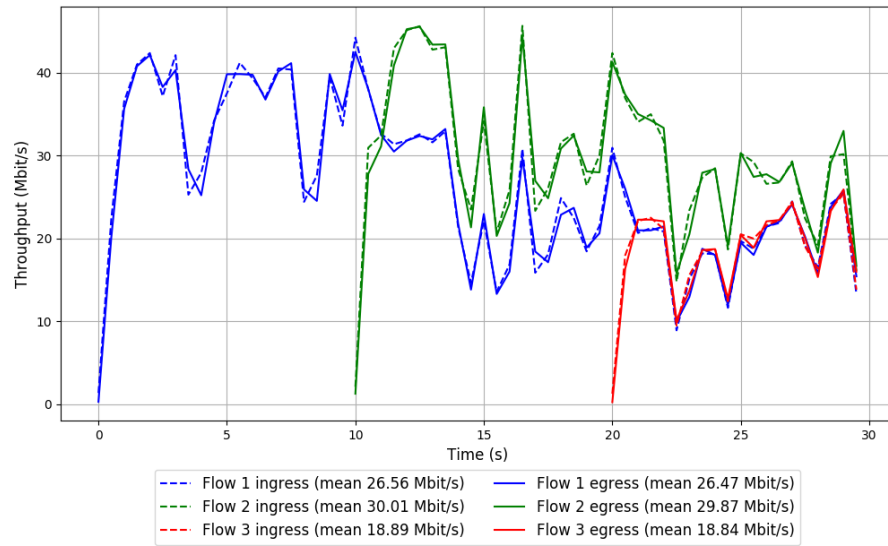


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-23 18:55:31
End at: 2017-09-23 18:56:01
Local clock offset: -2.068 ms
Remote clock offset: 1.278 ms

# Below is generated by plot.py at 2017-09-23 22:20:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 53.502 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 54.693 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 55.125 ms
Loss rate: 0.27%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-23 19:15:37

End at: 2017-09-23 19:16:07

Local clock offset: -1.726 ms

Remote clock offset: 1.517 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.49 Mbit/s

95th percentile per-packet one-way delay: 55.517 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 55.010 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 55.381 ms

Loss rate: 2.03%

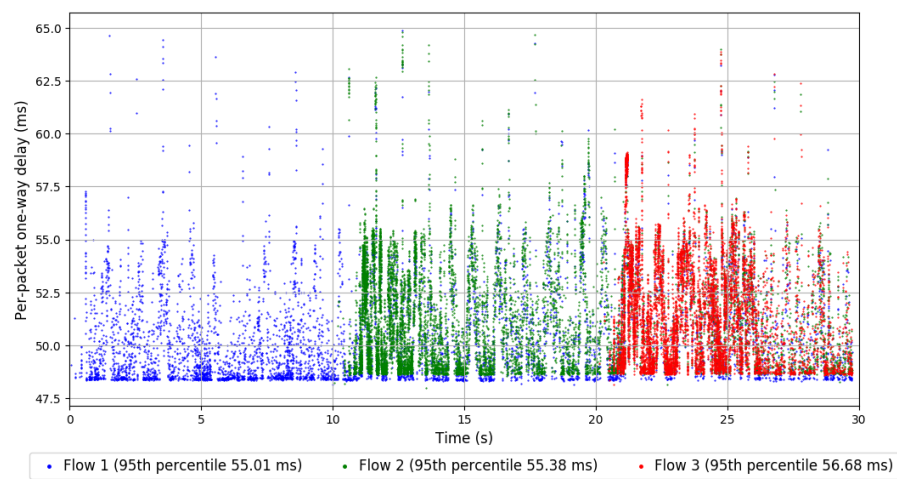
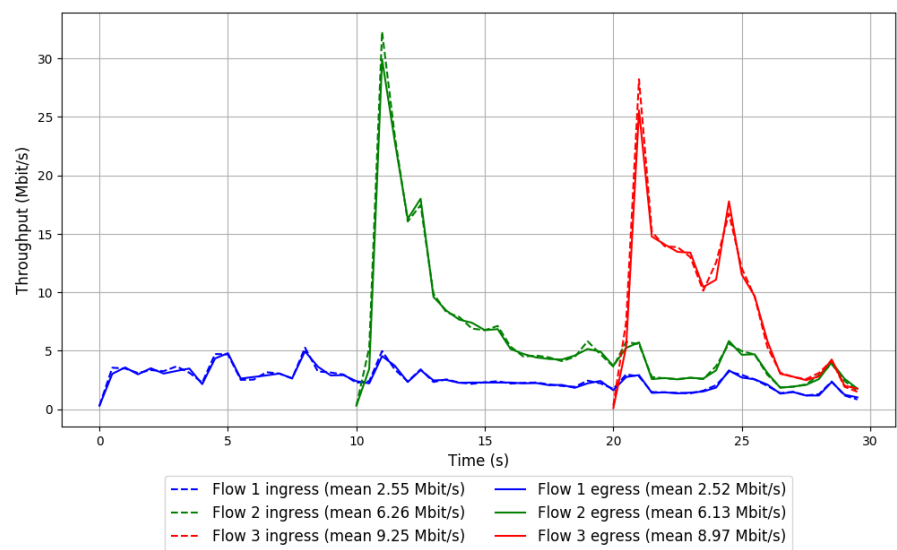
-- Flow 3:

Average throughput: 8.97 Mbit/s

95th percentile per-packet one-way delay: 56.676 ms

Loss rate: 3.03%

Run 2: Report of QUIC Cubic — Data Link

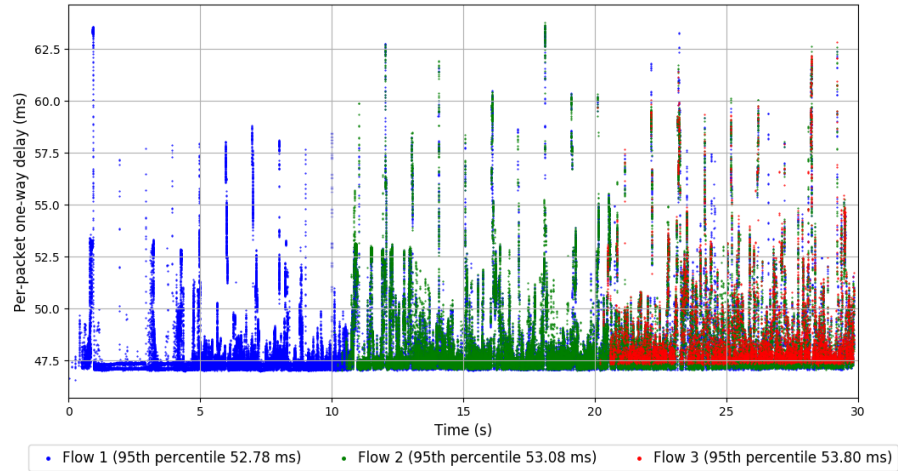
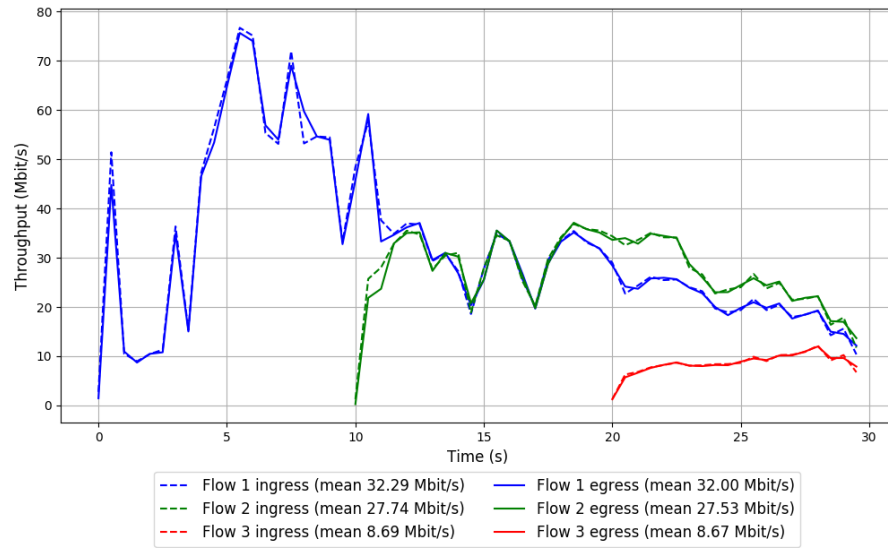


Run 3: Statistics of QUIC Cubic

Start at: 2017-09-23 19:35:30
End at: 2017-09-23 19:36:00
Local clock offset: -0.154 ms
Remote clock offset: 1.389 ms

Below is generated by plot.py at 2017-09-23 22:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 52.918 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 52.778 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 0.29%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-23 19:53:52

End at: 2017-09-23 19:54:22

Local clock offset: -1.539 ms

Remote clock offset: 1.215 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.53 Mbit/s

95th percentile per-packet one-way delay: 52.725 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 52.499 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 52.970 ms

Loss rate: 0.25%

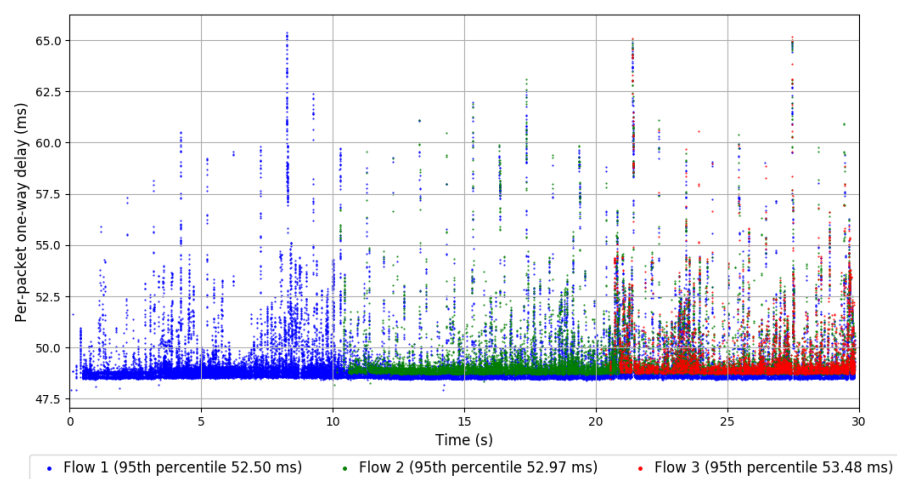
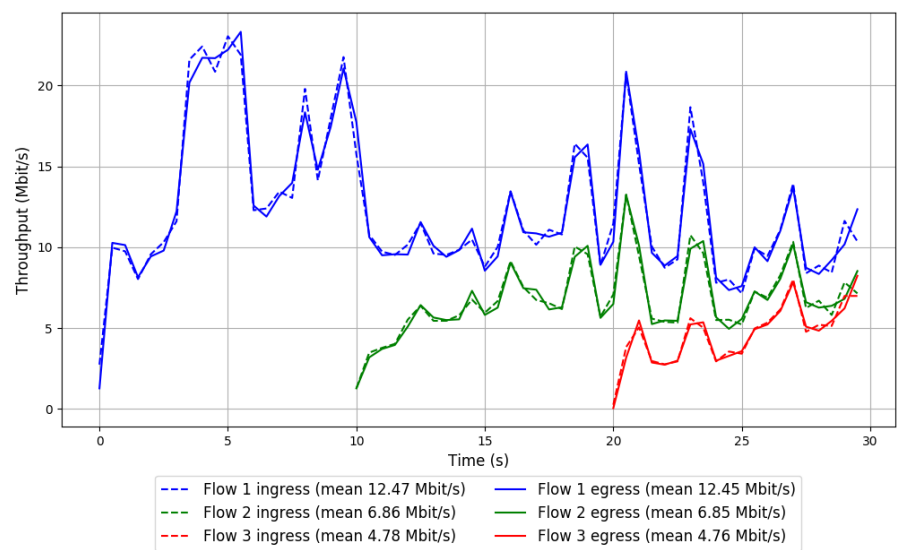
-- Flow 3:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 53.484 ms

Loss rate: 0.32%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-23 20:16:38

End at: 2017-09-23 20:17:08

Local clock offset: -1.433 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.16 Mbit/s

95th percentile per-packet one-way delay: 53.599 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 53.671 ms

Loss rate: 0.20%

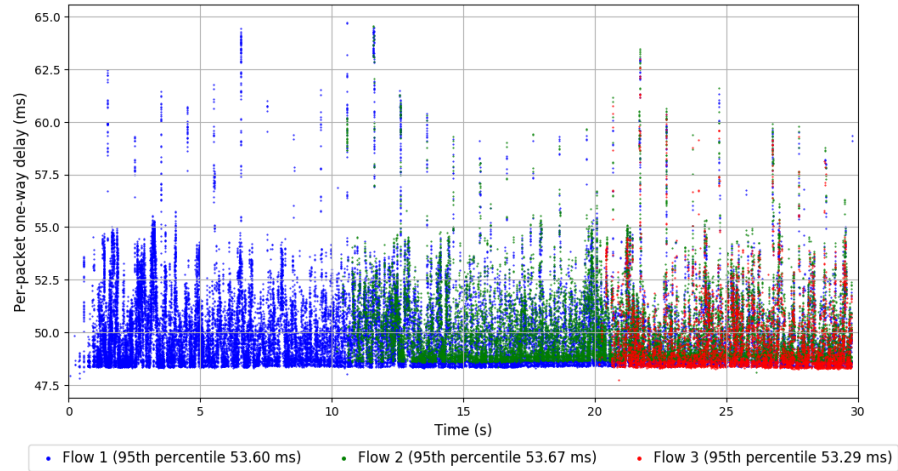
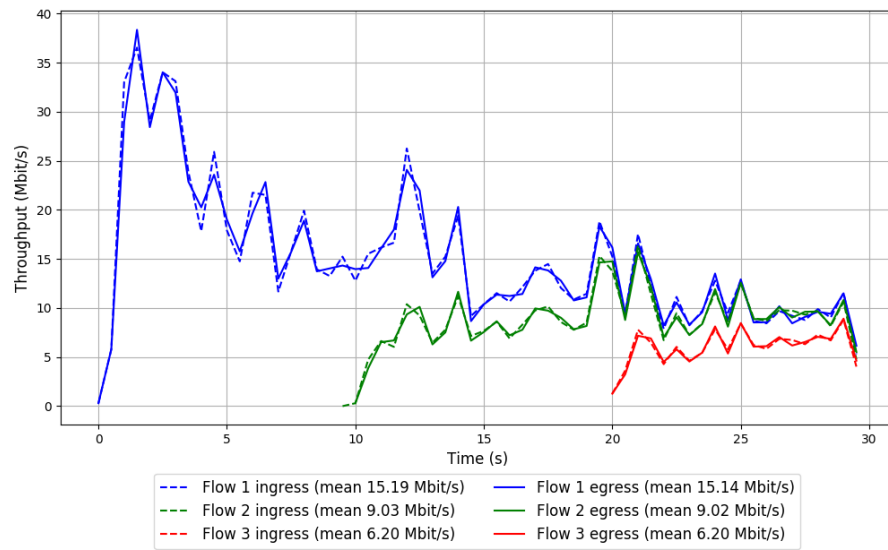
-- Flow 3:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 53.294 ms

Loss rate: 0.11%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-23 20:43:54

End at: 2017-09-23 20:44:24

Local clock offset: -0.864 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2017-09-23 22:20:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.39 Mbit/s

95th percentile per-packet one-way delay: 52.798 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 5.02 Mbit/s

95th percentile per-packet one-way delay: 52.167 ms

Loss rate: 0.83%

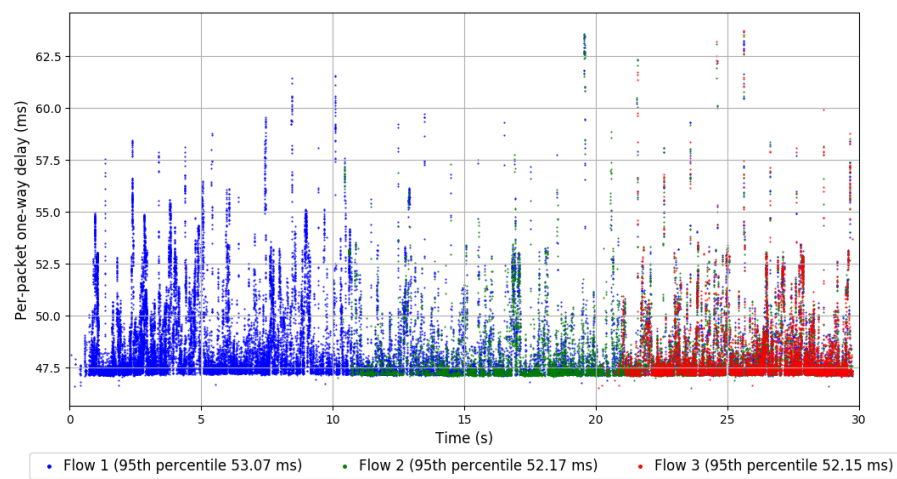
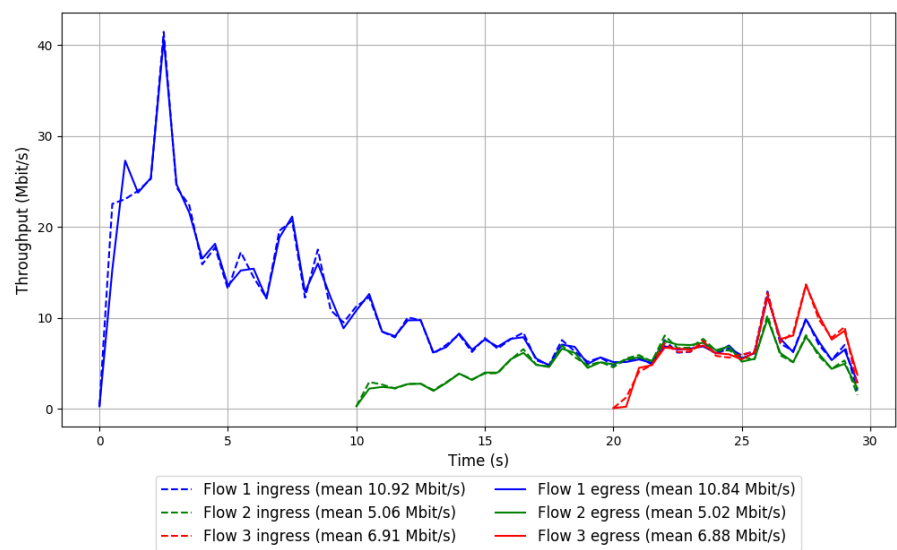
-- Flow 3:

Average throughput: 6.88 Mbit/s

95th percentile per-packet one-way delay: 52.154 ms

Loss rate: 0.36%

Run 6: Report of QUIC Cubic — Data Link

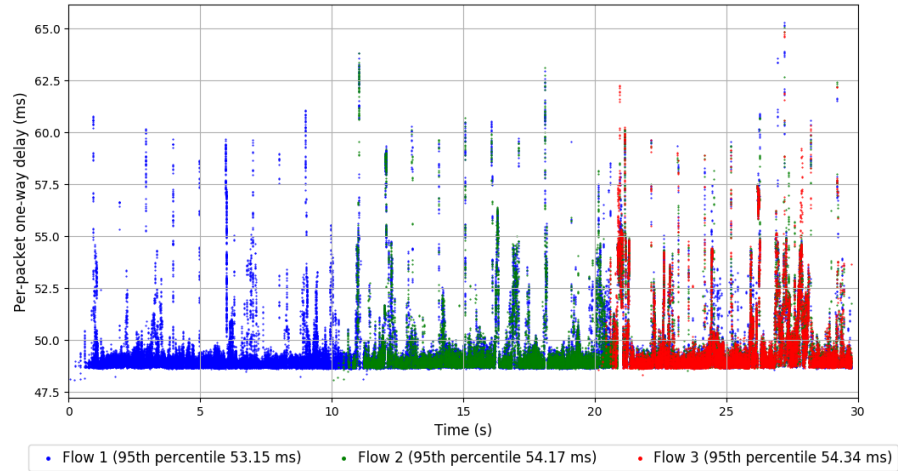
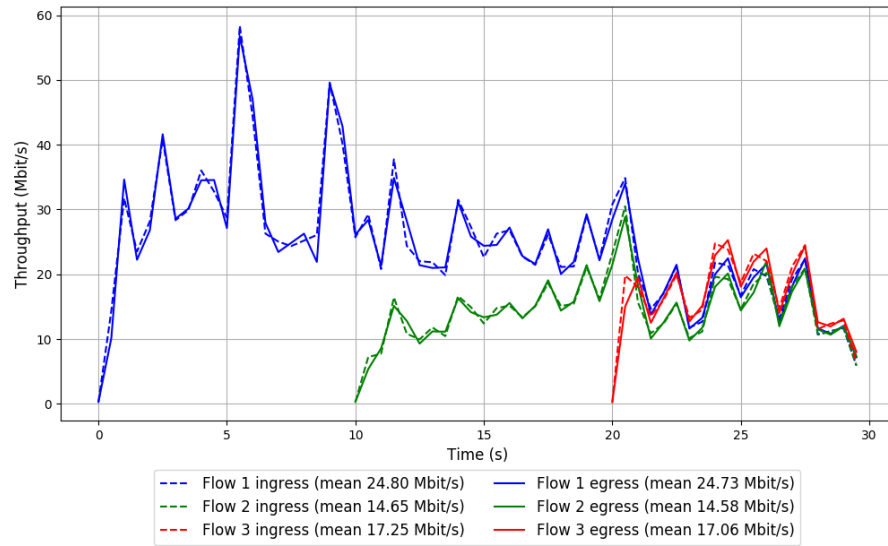


Run 7: Statistics of QUIC Cubic

Start at: 2017-09-23 21:06:20
End at: 2017-09-23 21:06:50
Local clock offset: -2.623 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2017-09-23 22:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 53.145 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 54.173 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 54.338 ms
Loss rate: 1.07%

Run 7: Report of QUIC Cubic — Data Link

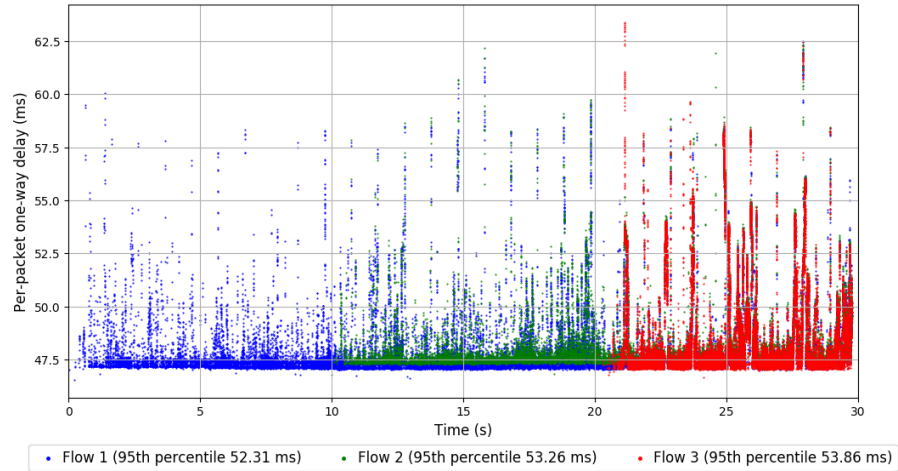
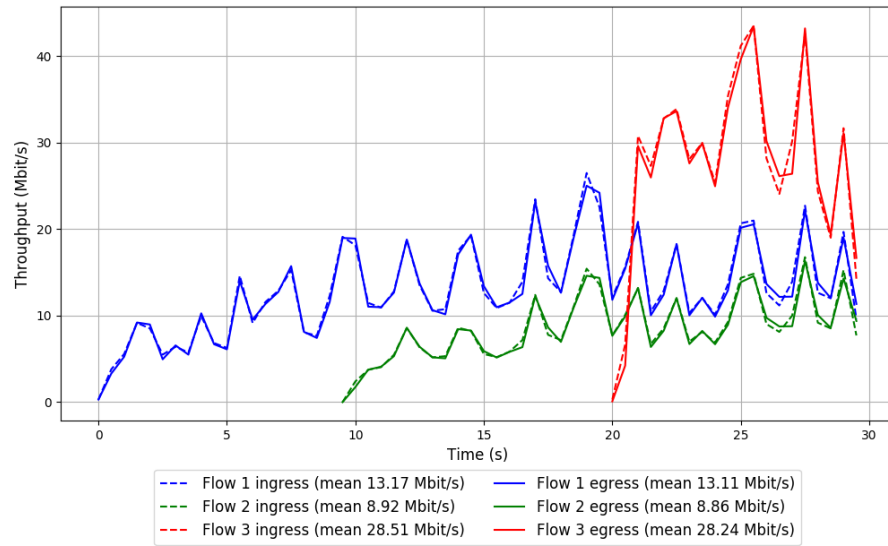


Run 8: Statistics of QUIC Cubic

Start at: 2017-09-23 21:26:59
End at: 2017-09-23 21:27:29
Local clock offset: -1.72 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2017-09-23 22:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.17 Mbit/s
95th percentile per-packet one-way delay: 53.318 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 52.312 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 53.257 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 53.861 ms
Loss rate: 0.92%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

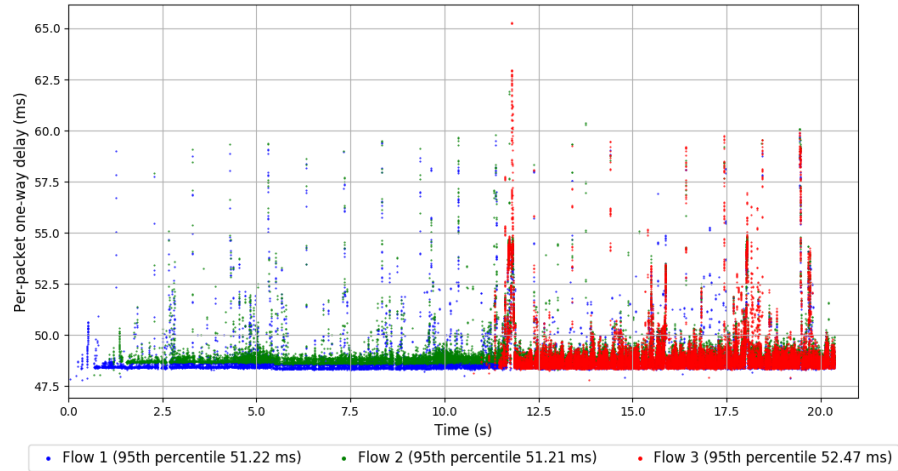
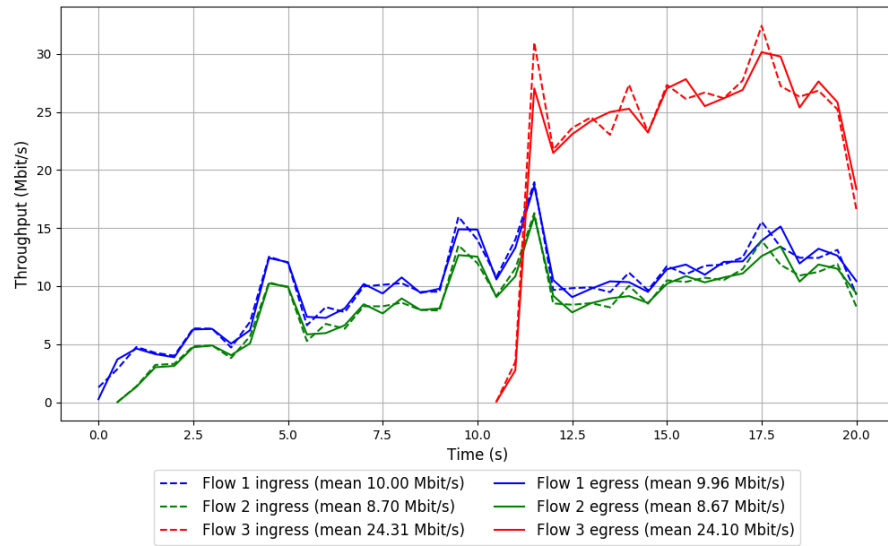
Start at: 2017-09-23 21:47:51

End at: 2017-09-23 21:48:21

Local clock offset: -3.077 ms

Remote clock offset: -0.14 ms

Run 9: Report of QUIC Cubic — Data Link

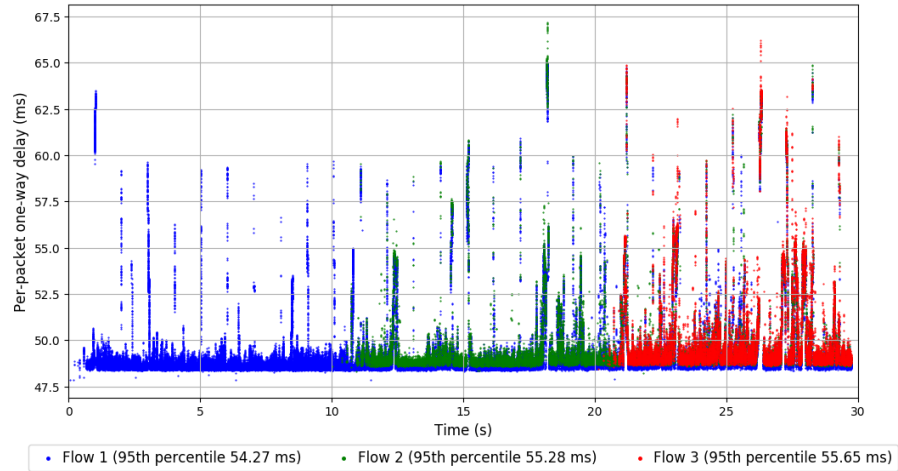
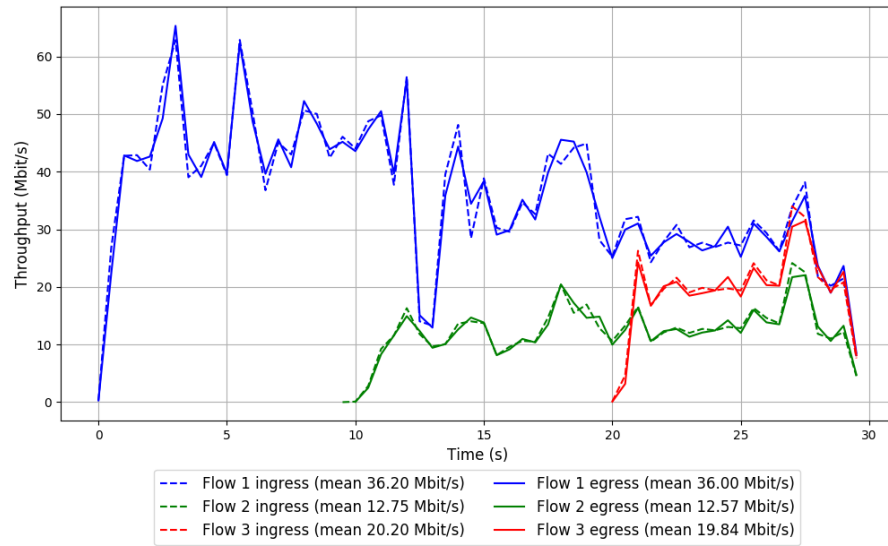


Run 10: Statistics of QUIC Cubic

Start at: 2017-09-23 22:09:39
End at: 2017-09-23 22:10:09
Local clock offset: -3.095 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.75 Mbit/s
95th percentile per-packet one-way delay: 54.645 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 36.00 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 55.279 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 55.647 ms
Loss rate: 1.76%

Run 10: Report of QUIC Cubic — Data Link

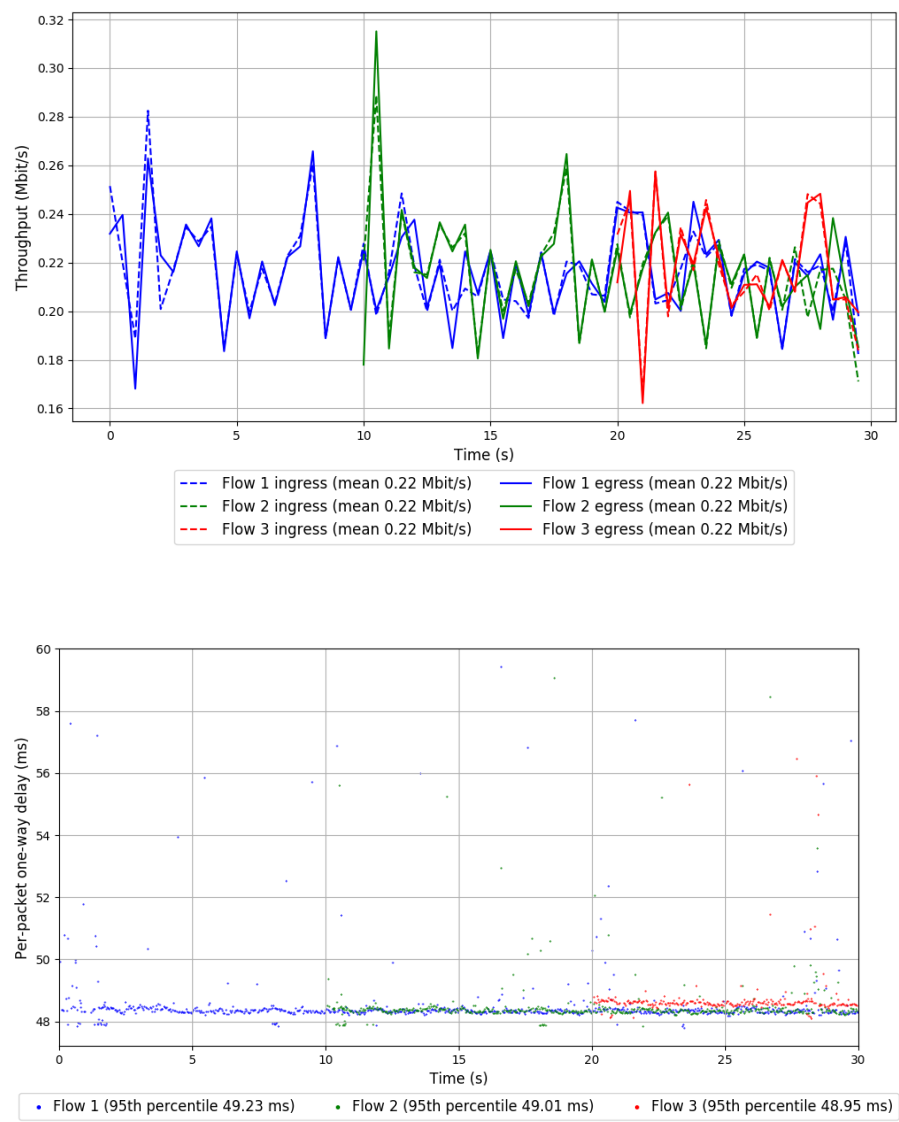


```
Run 1: Statistics of SReAM

Start at: 2017-09-23 18:45:10
End at: 2017-09-23 18:45:40
Local clock offset: -1.981 ms
Remote clock offset: 1.092 ms

# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 49.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.950 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

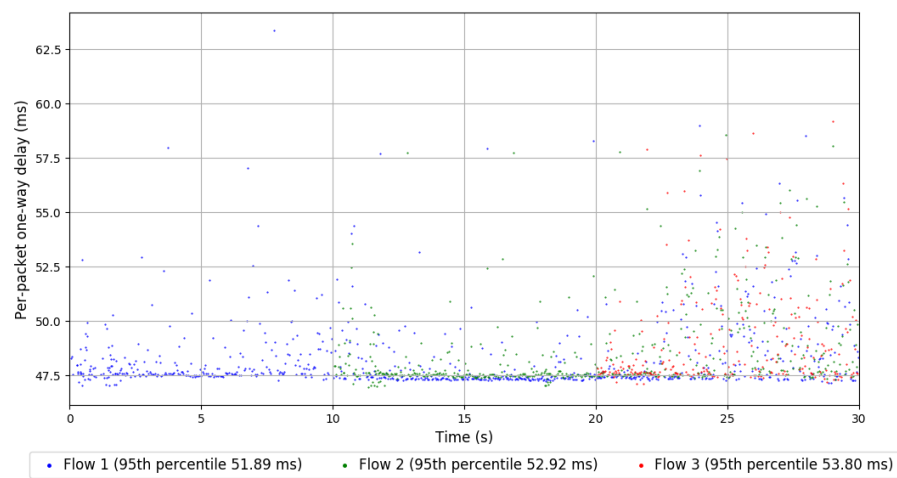
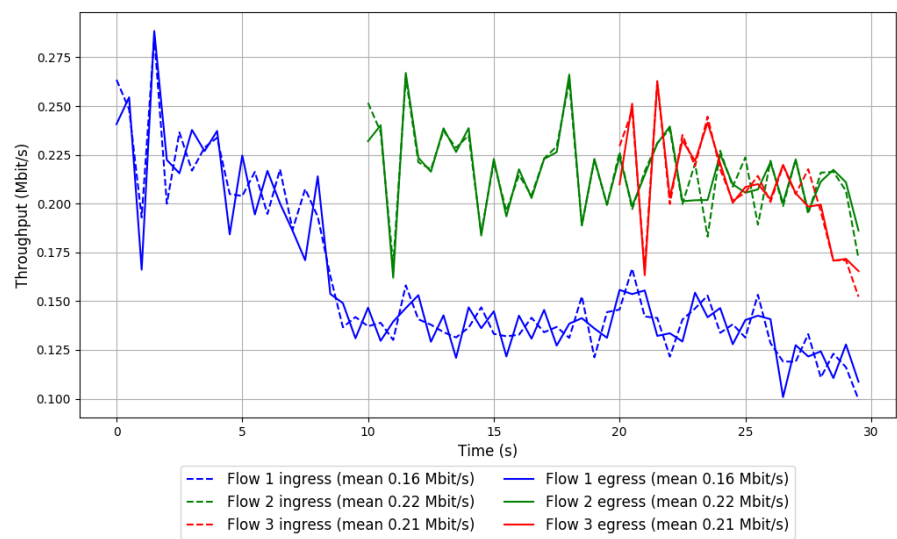


Run 2: Statistics of SReAM

Start at: 2017-09-23 19:04:04
End at: 2017-09-23 19:04:34
Local clock offset: -0.628 ms
Remote clock offset: 1.429 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 52.833 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 51.889 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.919 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.45%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-09-23 19:24:41

End at: 2017-09-23 19:25:11

Local clock offset: -1.597 ms

Remote clock offset: 1.615 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 49.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.914 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.052 ms

Loss rate: 0.00%

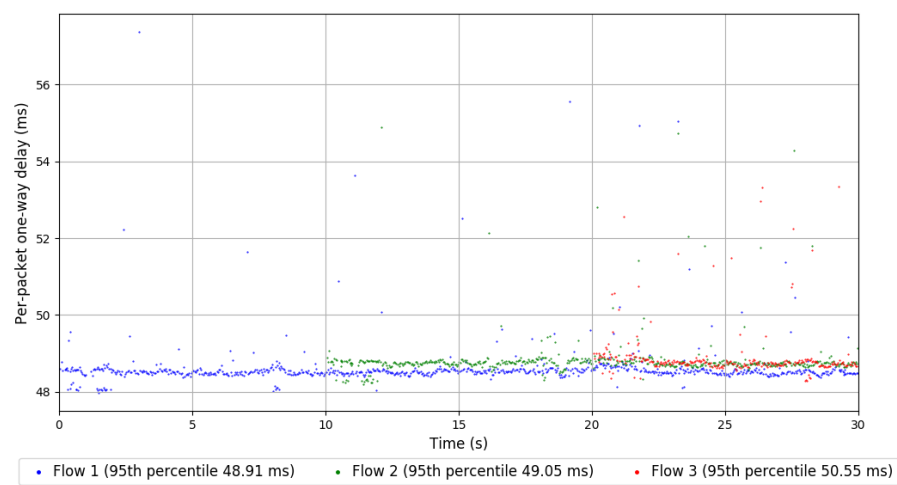
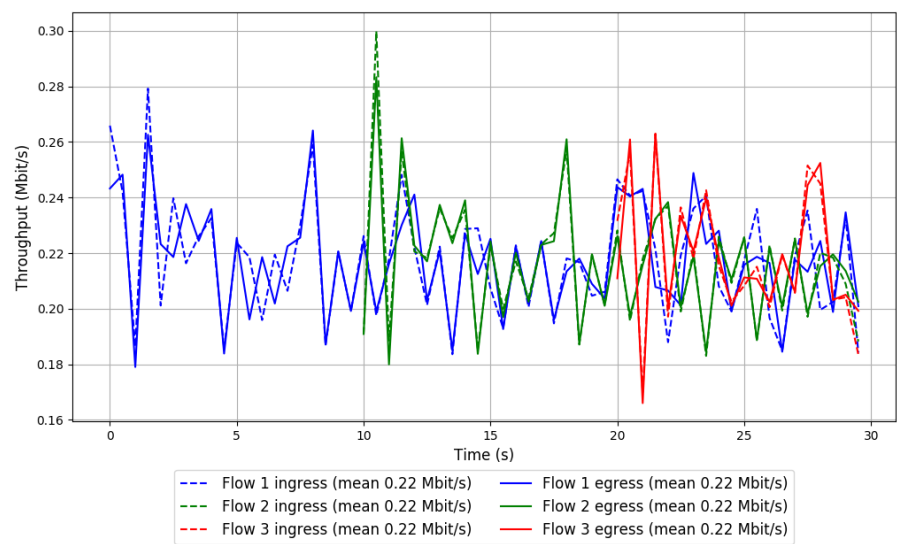
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.550 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-23 19:43:13

End at: 2017-09-23 19:43:43

Local clock offset: -1.39 ms

Remote clock offset: 1.395 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 51.601 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 51.898 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.205 ms

Loss rate: 0.00%

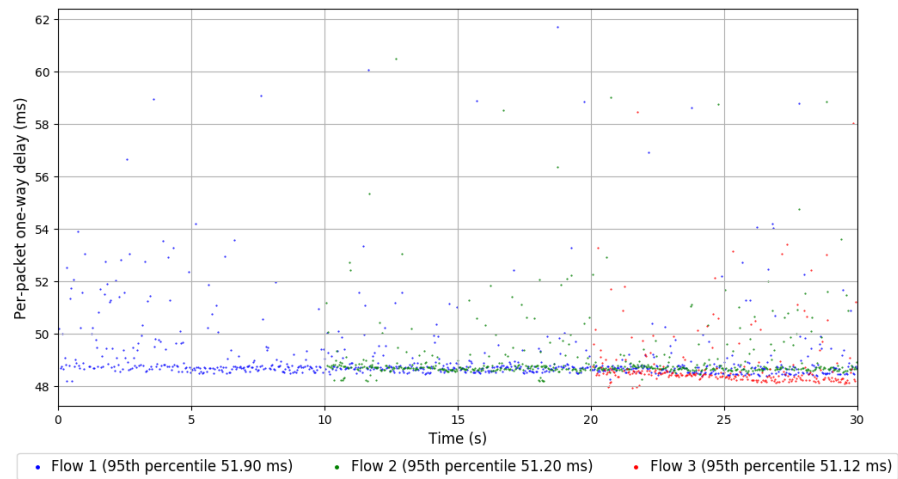
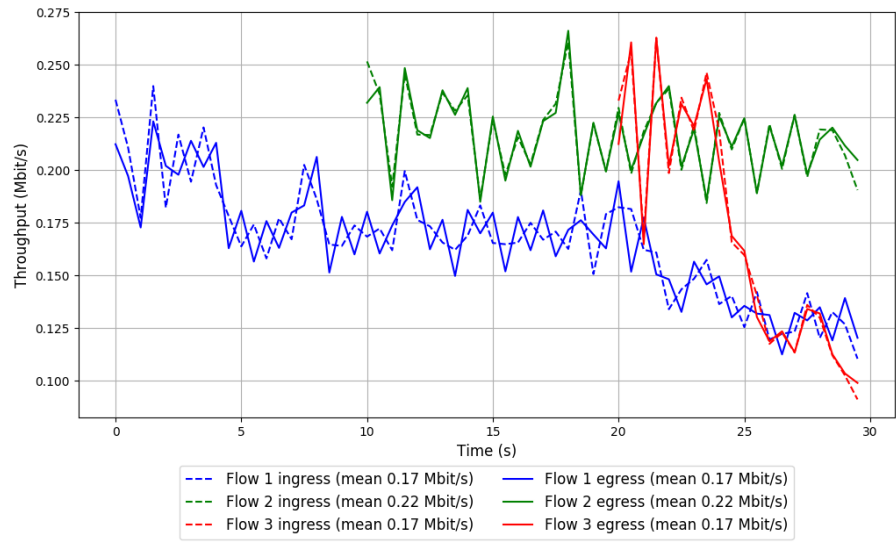
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 51.124 ms

Loss rate: 0.84%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-23 20:02:56

End at: 2017-09-23 20:03:26

Local clock offset: -0.277 ms

Remote clock offset: 1.049 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 52.206 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 52.212 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 52.242 ms

Loss rate: 0.33%

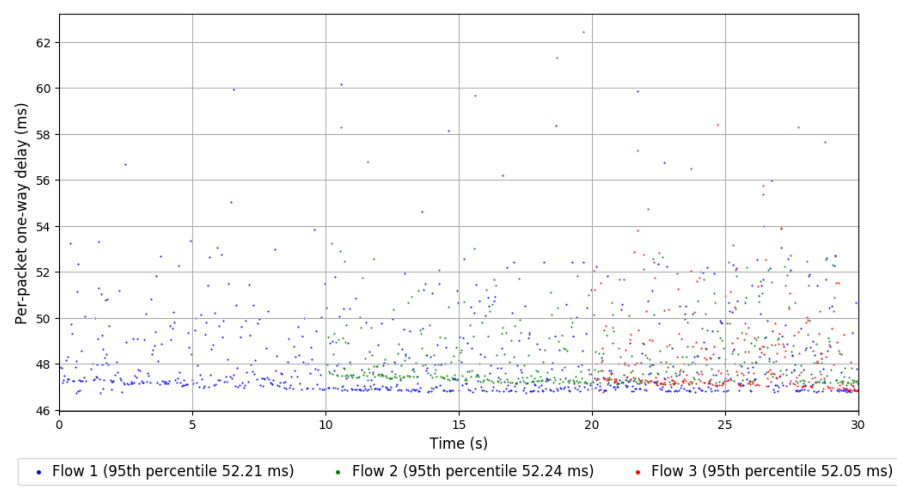
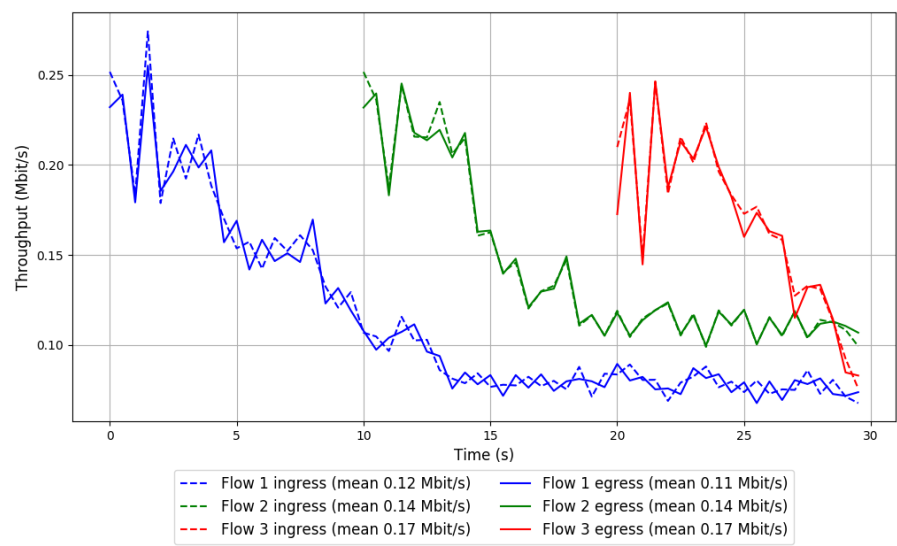
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 52.048 ms

Loss rate: 1.69%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-23 20:27:40

End at: 2017-09-23 20:28:10

Local clock offset: -1.714 ms

Remote clock offset: 0.656 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 53.728 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 53.532 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.83%

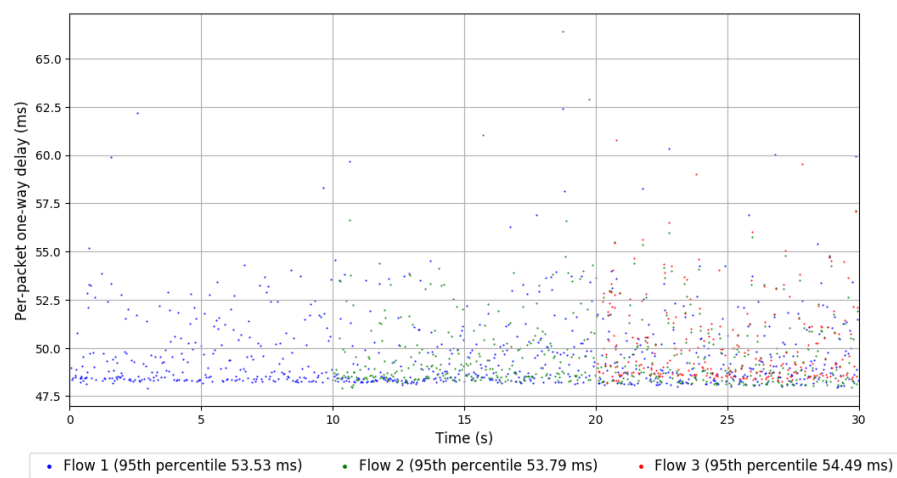
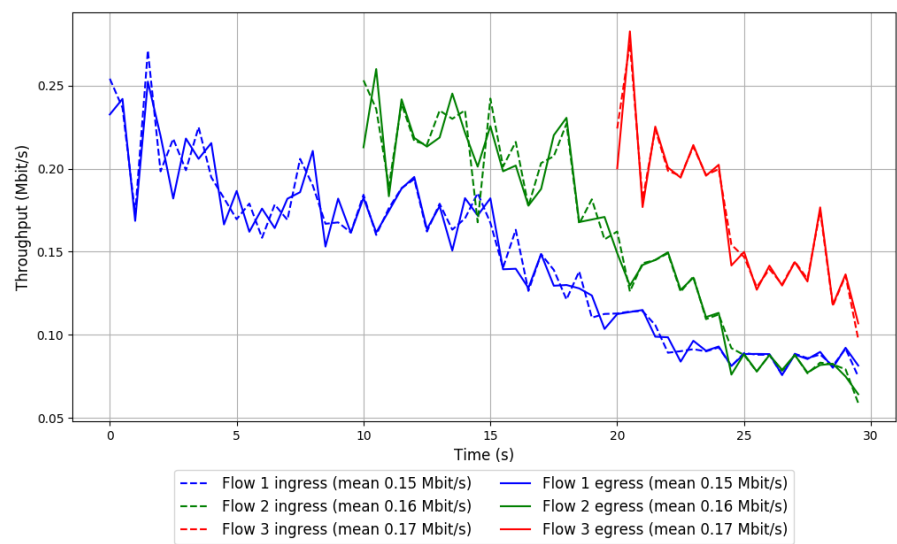
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 54.489 ms

Loss rate: 0.42%

Run 6: Report of SReAM — Data Link

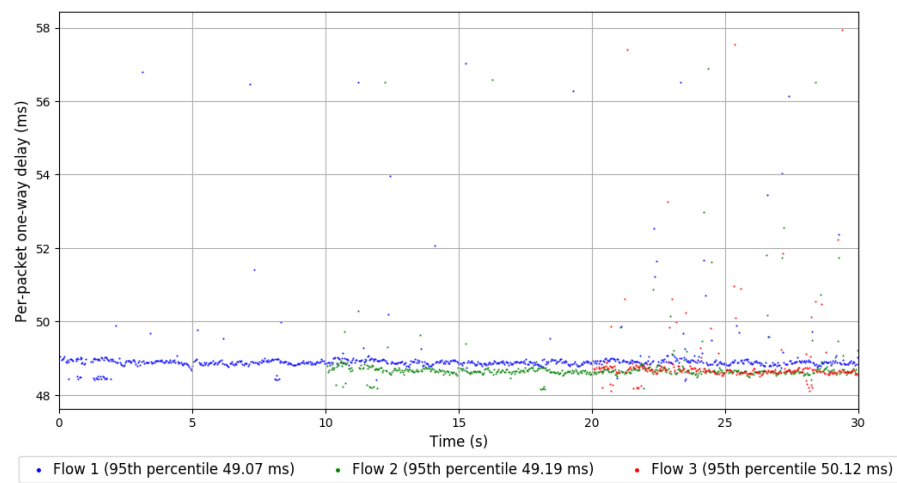
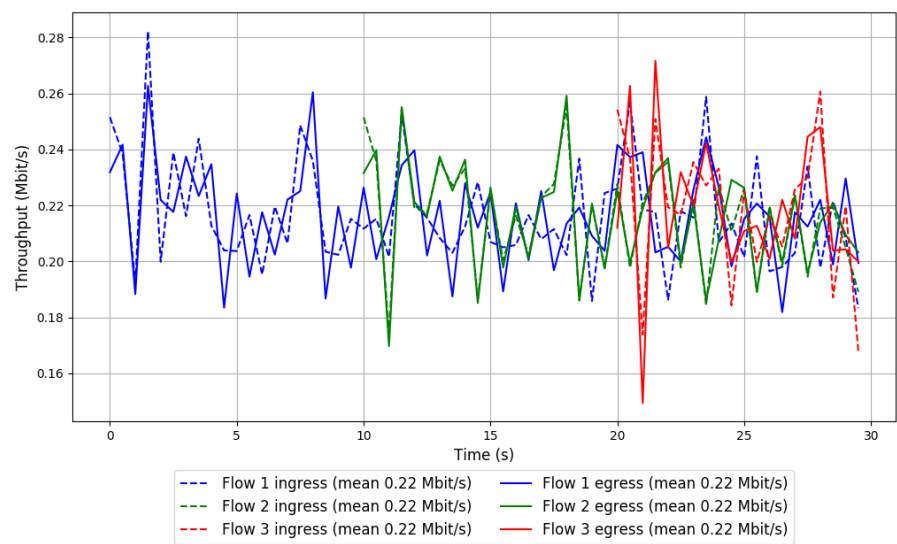


Run 7: Statistics of SReAM

Start at: 2017-09-23 20:54:24
End at: 2017-09-23 20:54:54
Local clock offset: -2.438 ms
Remote clock offset: 0.329 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 49.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.189 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.123 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-09-23 21:15:38

End at: 2017-09-23 21:16:08

Local clock offset: -2.605 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.204 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.00%

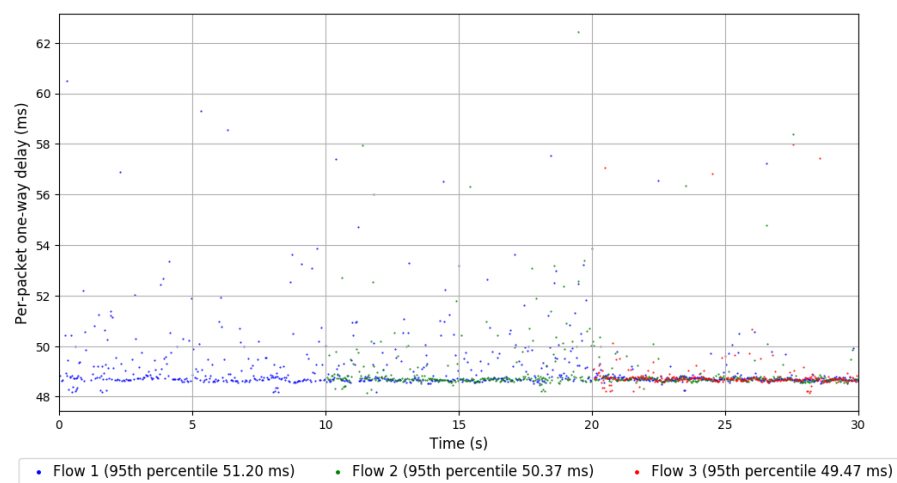
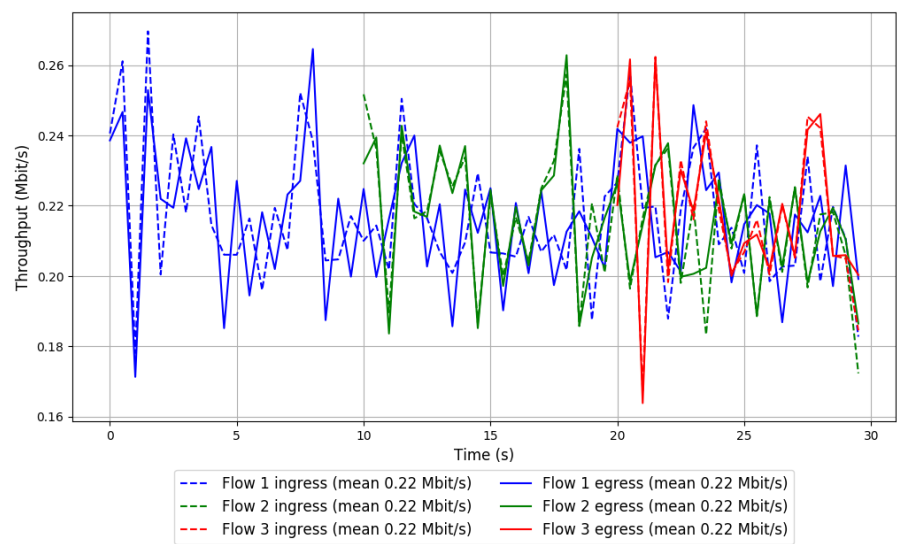
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.465 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

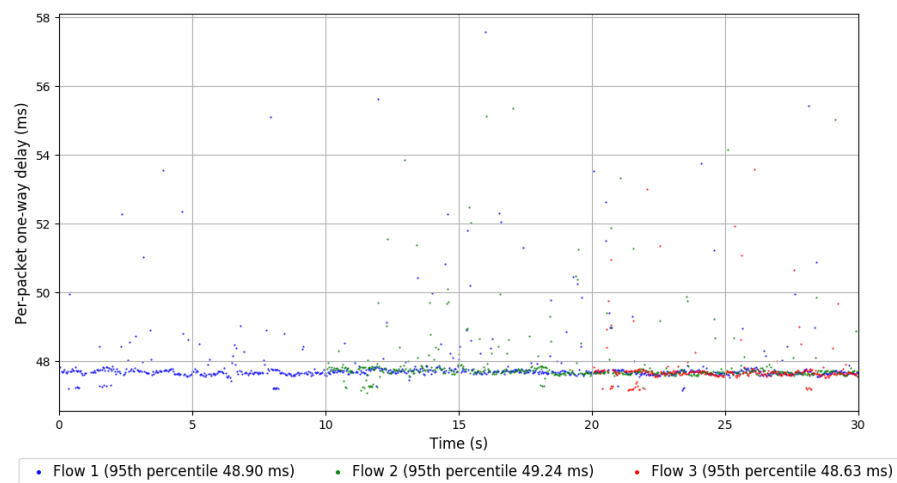
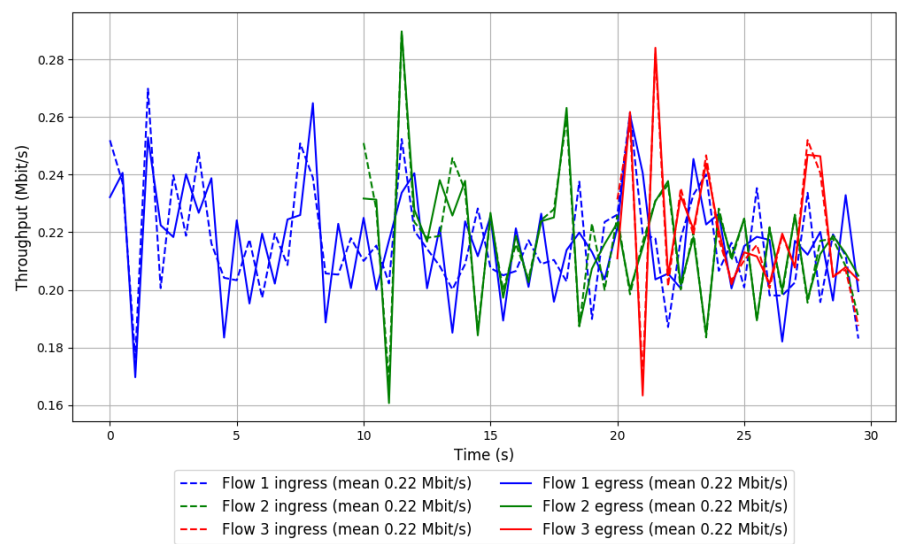


Run 9: Statistics of SReAM

Start at: 2017-09-23 21:35:46
End at: 2017-09-23 21:36:16
Local clock offset: -2.014 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 48.969 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.238 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.631 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

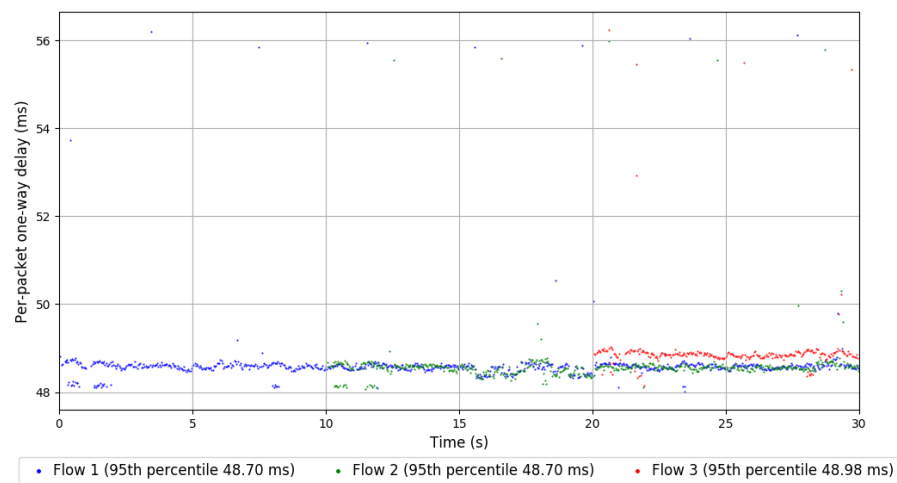
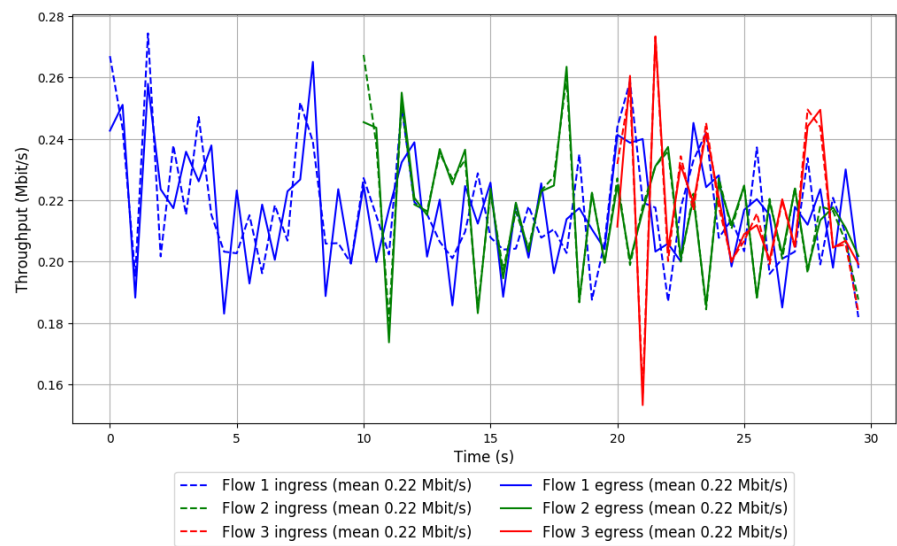


Run 10: Statistics of SReAM

Start at: 2017-09-23 21:58:05
End at: 2017-09-23 21:58:35
Local clock offset: -3.128 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 48.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.704 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.981 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-09-23 18:56:52

End at: 2017-09-23 18:57:22

Local clock offset: -0.727 ms

Remote clock offset: 1.229 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 50.455 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.104 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 50.353 ms

Loss rate: 0.02%

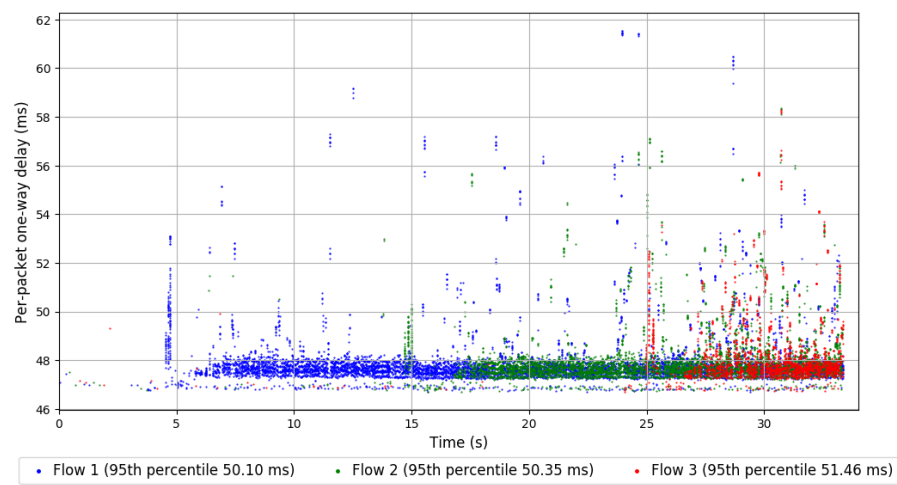
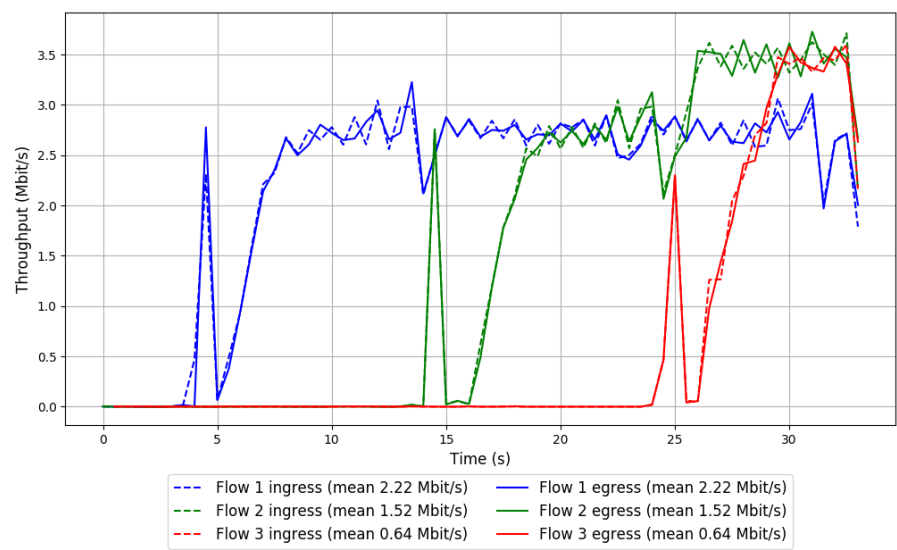
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 51.459 ms

Loss rate: 0.09%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-23 19:17:09

End at: 2017-09-23 19:17:39

Local clock offset: -1.723 ms

Remote clock offset: 1.588 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 56.080 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 55.885 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 56.060 ms

Loss rate: 1.79%

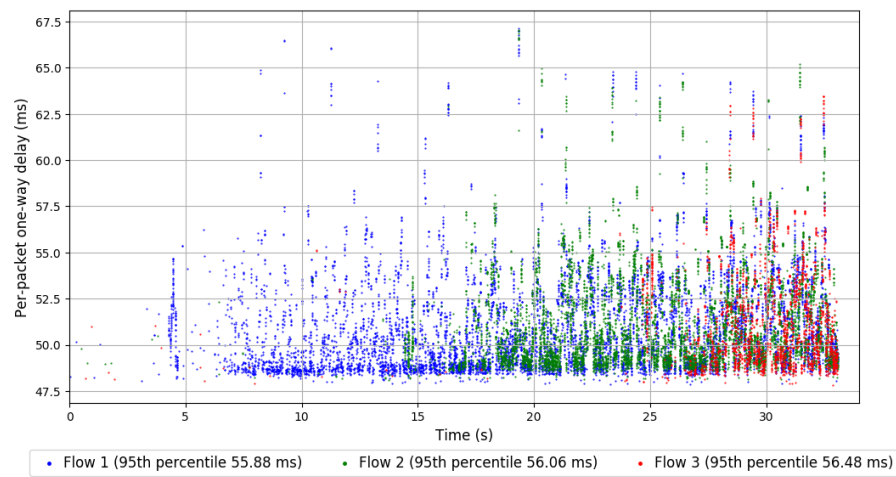
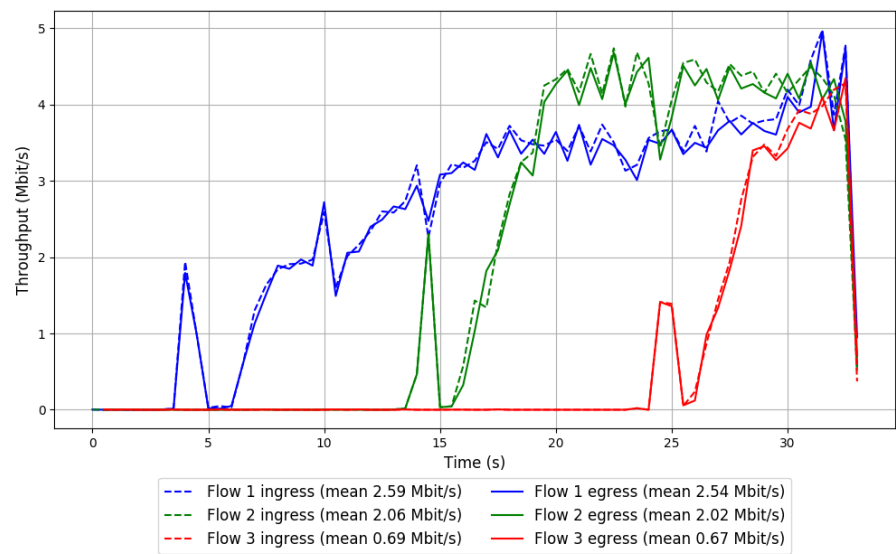
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 56.477 ms

Loss rate: 2.71%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-23 19:36:46

End at: 2017-09-23 19:37:16

Local clock offset: -1.552 ms

Remote clock offset: 1.412 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 52.232 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 51.811 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 52.624 ms

Loss rate: 0.19%

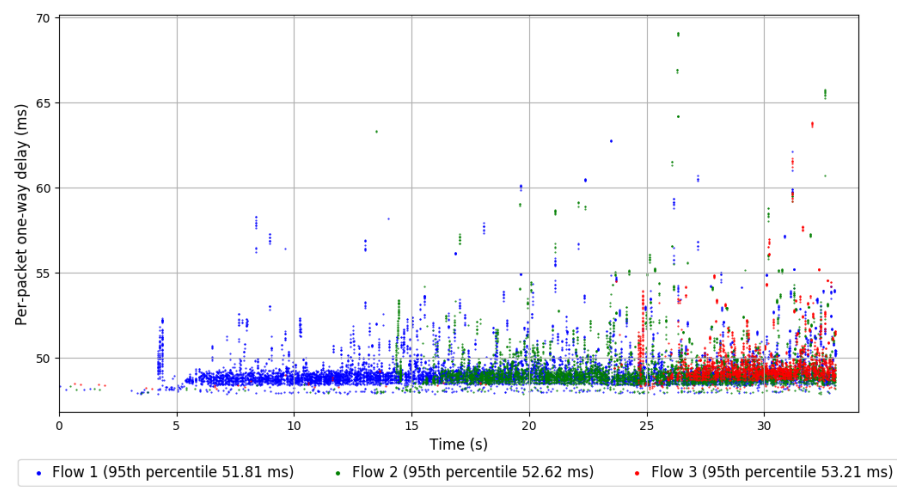
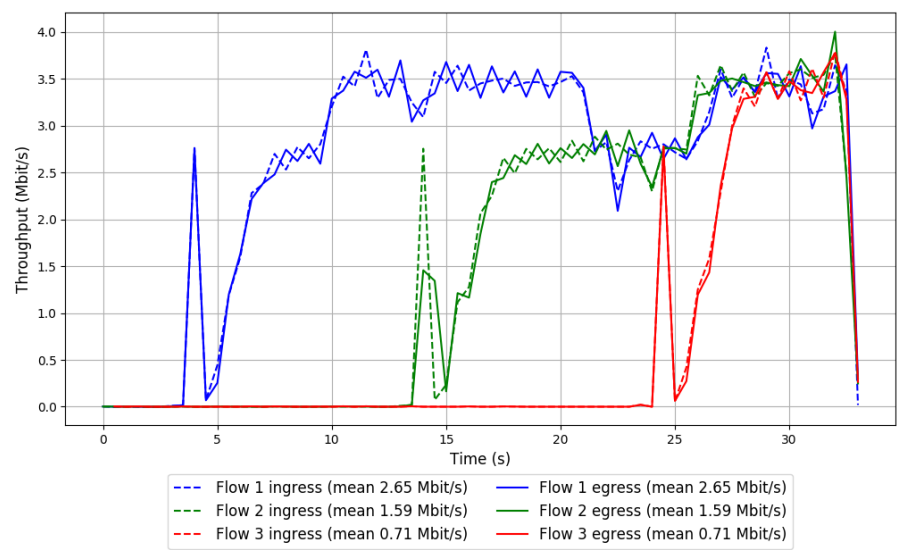
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 53.208 ms

Loss rate: 0.25%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-23 19:55:23

End at: 2017-09-23 19:55:53

Local clock offset: -1.549 ms

Remote clock offset: 1.169 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 50.252 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 50.012 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 0.00%

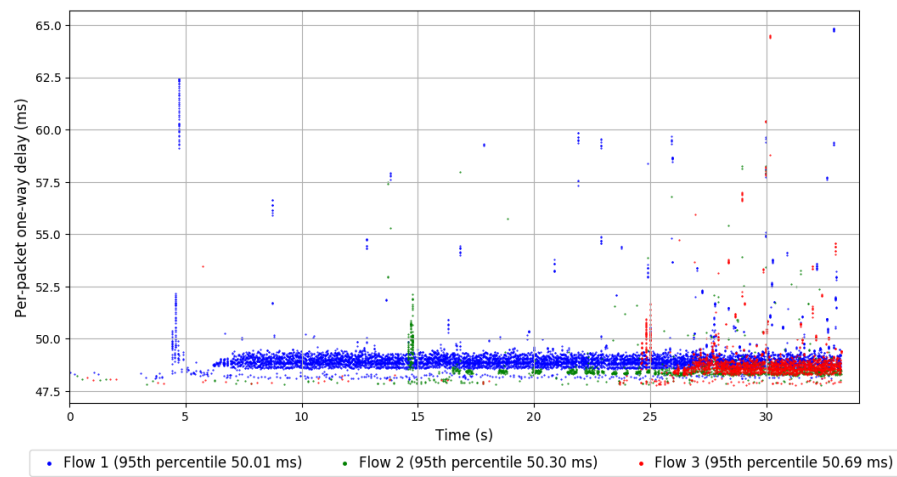
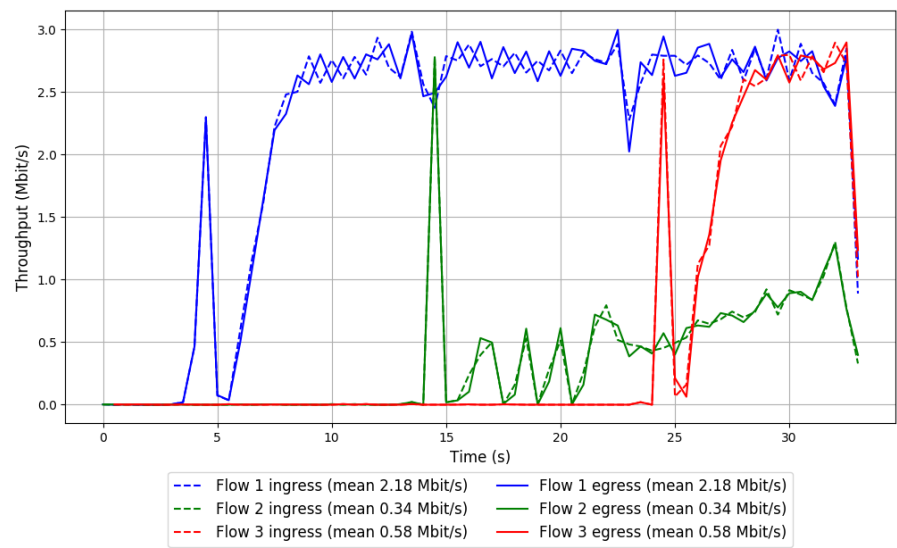
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 50.691 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-23 20:18:46

End at: 2017-09-23 20:19:16

Local clock offset: -1.441 ms

Remote clock offset: 0.802 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 53.564 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 52.970 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.51%

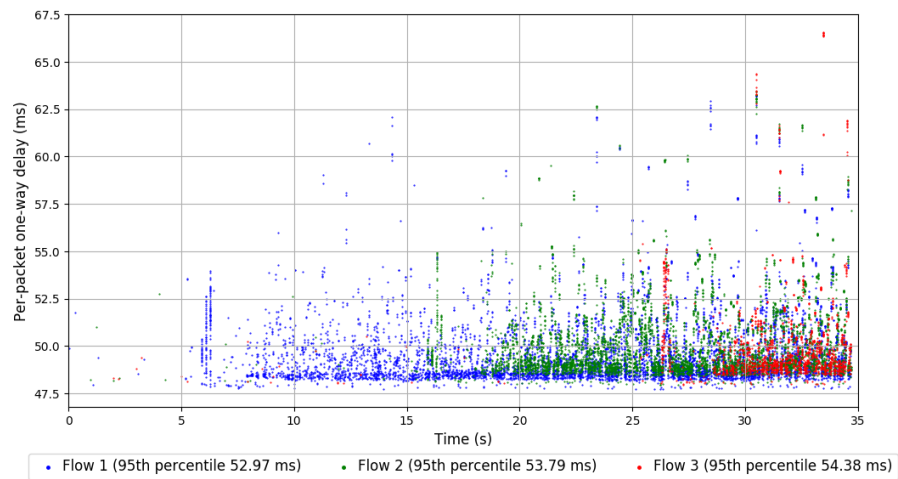
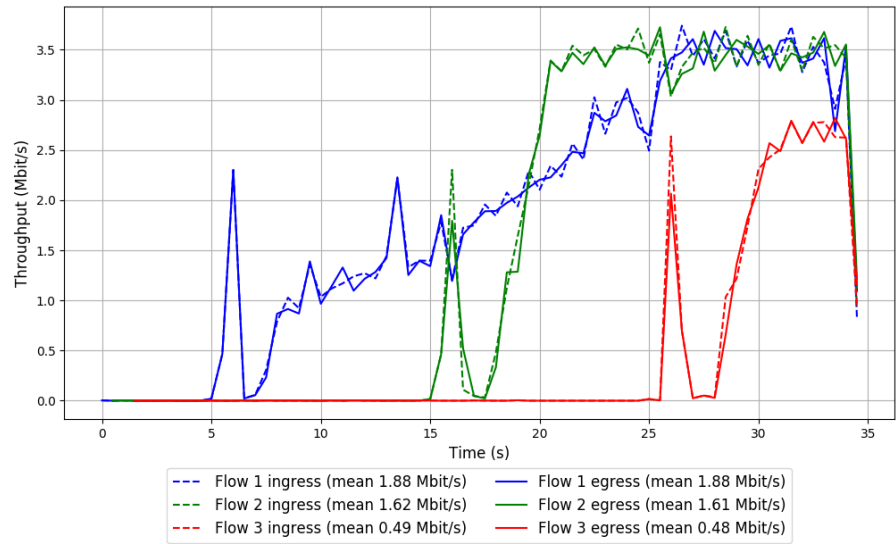
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 1.79%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-23 20:45:45

End at: 2017-09-23 20:46:15

Local clock offset: -0.992 ms

Remote clock offset: 0.341 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 51.225 ms

Loss rate: 0.06%

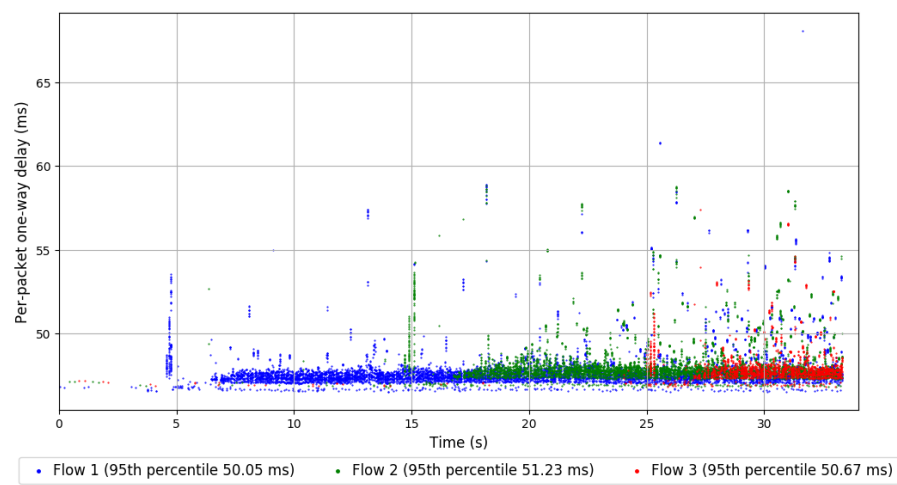
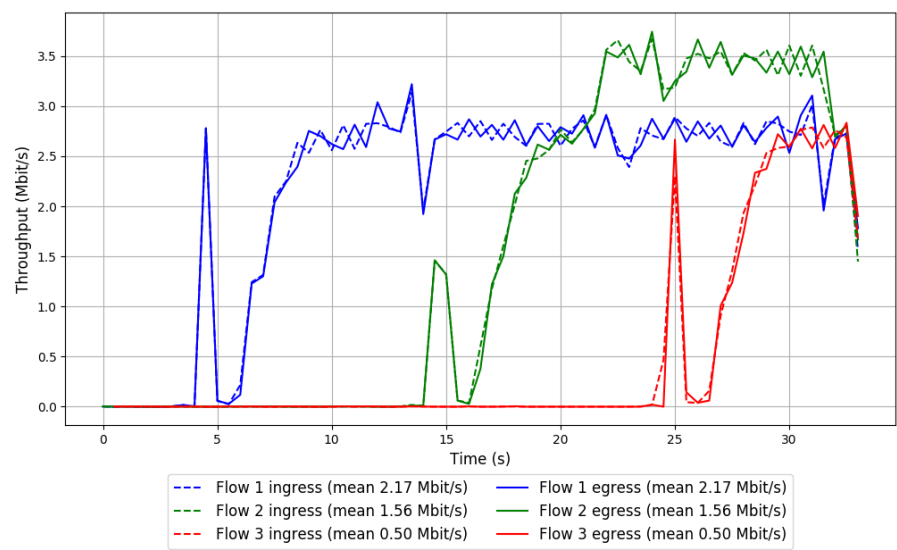
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 50.673 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

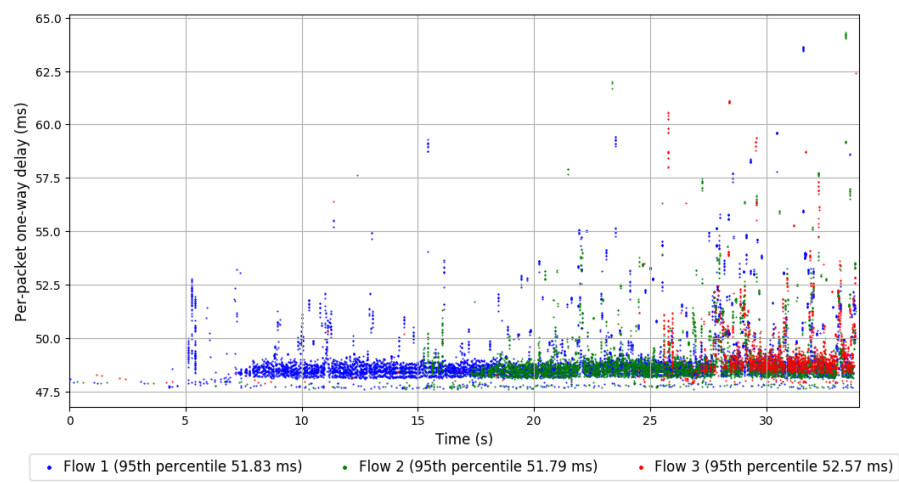
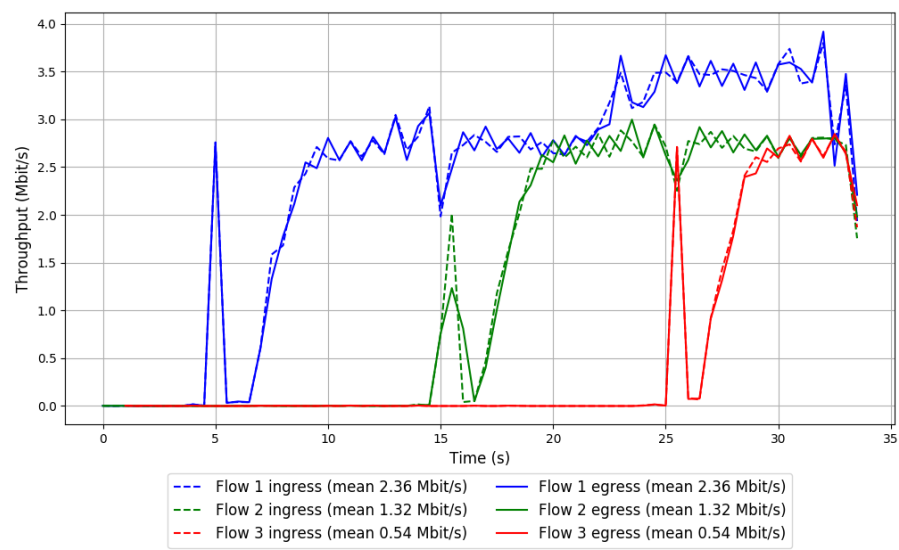


Run 7: Statistics of WebRTC media

Start at: 2017-09-23 21:08:39
End at: 2017-09-23 21:09:09
Local clock offset: -2.478 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 51.924 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 51.834 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 51.787 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 52.572 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-23 21:28:32

End at: 2017-09-23 21:29:02

Local clock offset: -3.05 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 52.377 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 51.681 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 52.655 ms

Loss rate: 0.47%

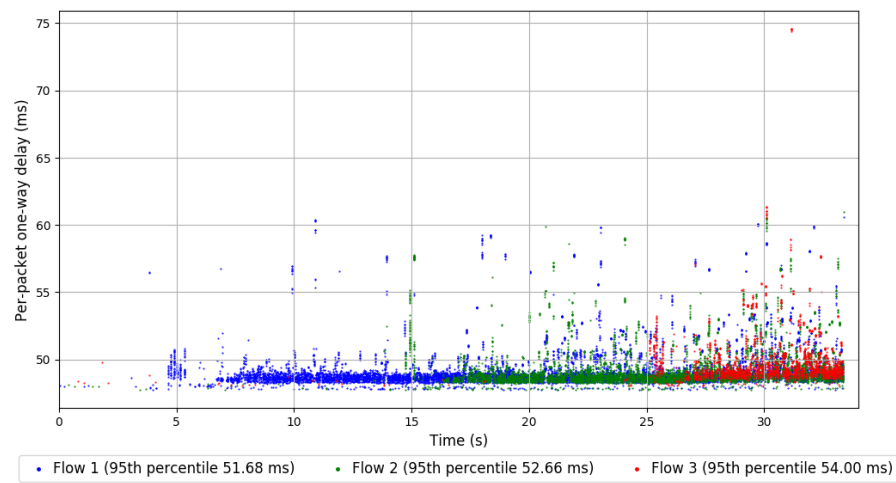
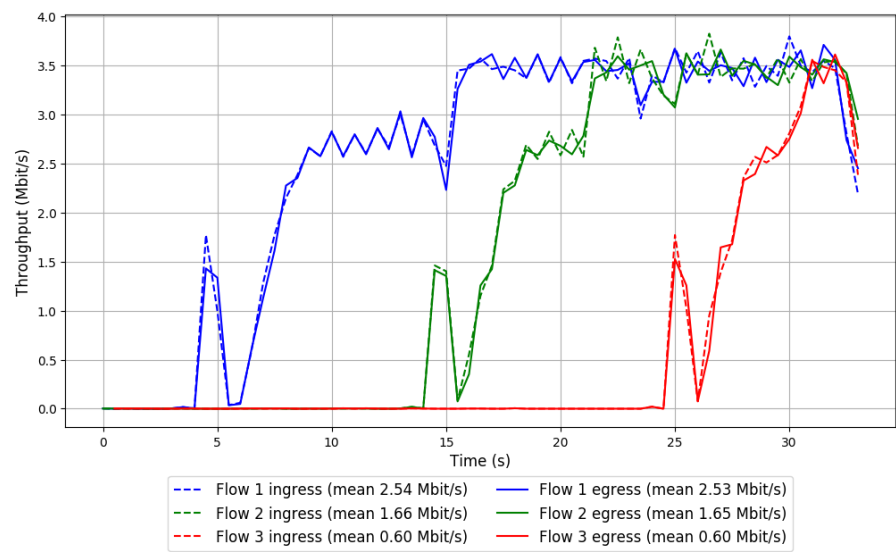
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 54.001 ms

Loss rate: 0.15%

Run 8: Report of WebRTC media — Data Link

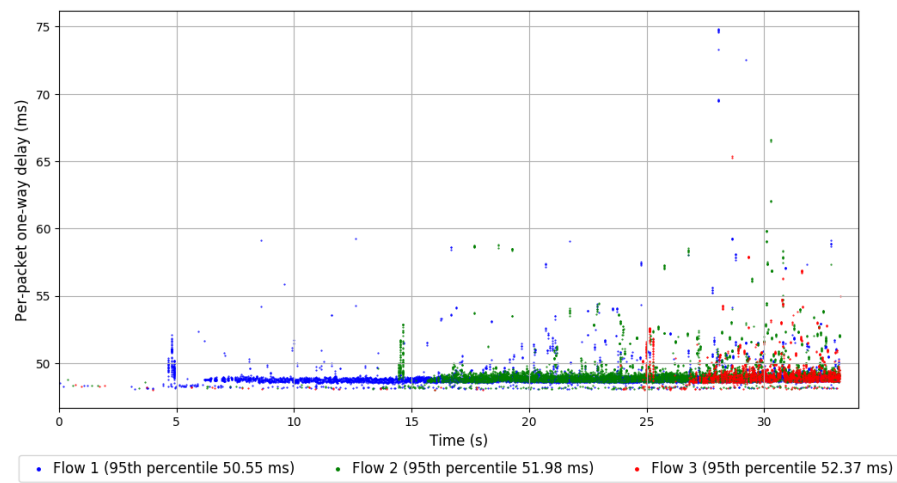
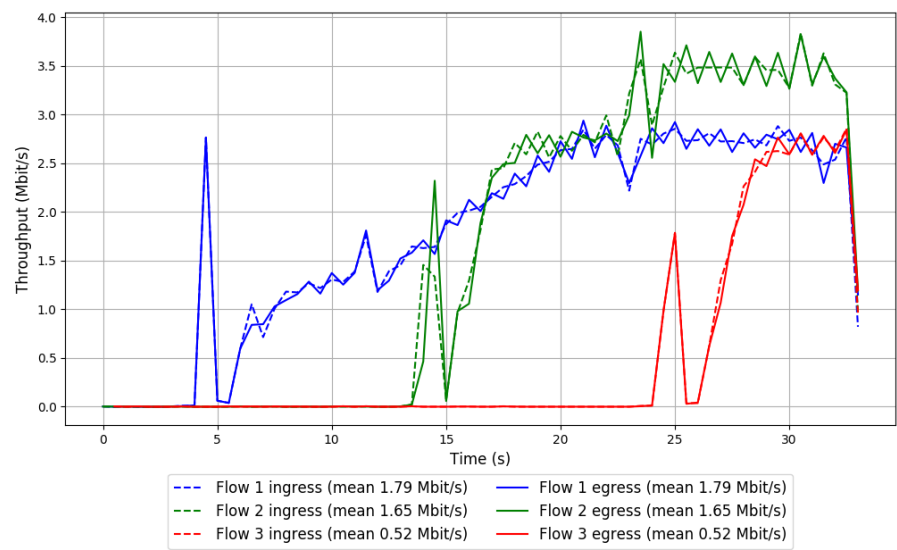


Run 9: Statistics of WebRTC media

Start at: 2017-09-23 21:49:28
End at: 2017-09-23 21:49:58
Local clock offset: -3.198 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 51.472 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 50.549 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 51.978 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 52.374 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

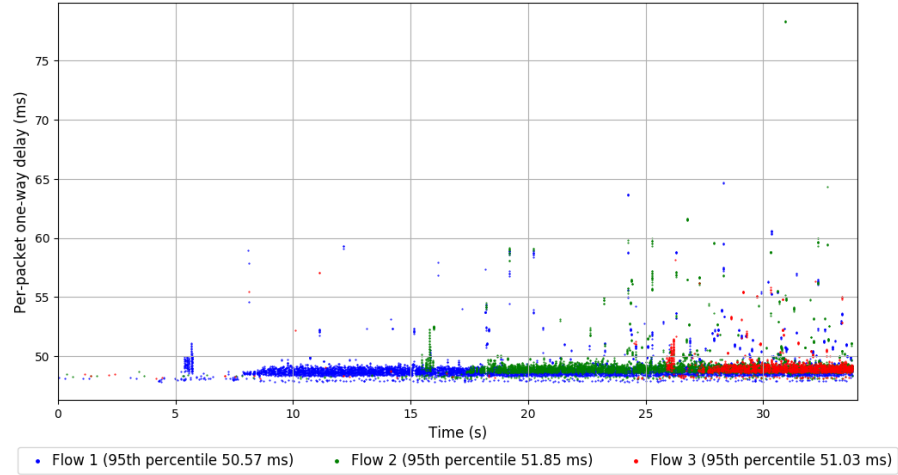
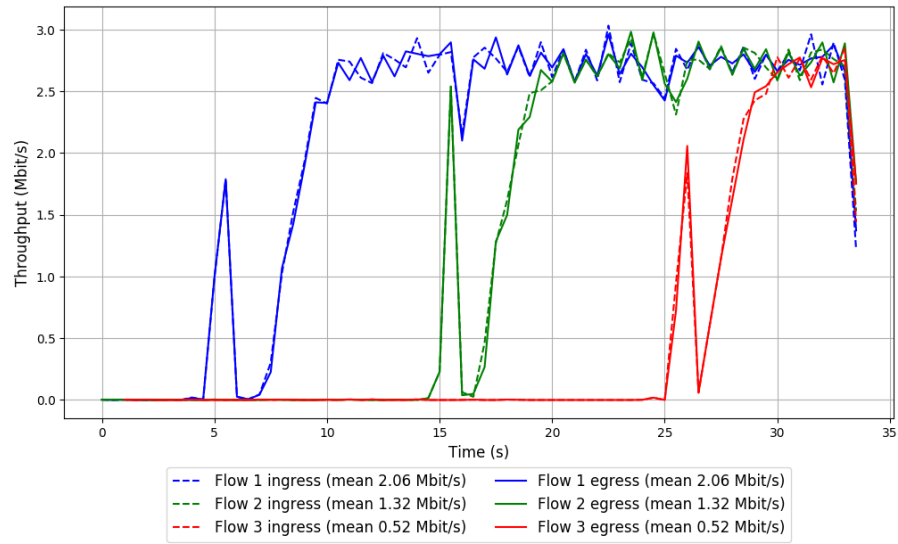


Run 10: Statistics of WebRTC media

Start at: 2017-09-23 22:12:17
End at: 2017-09-23 22:12:47
Local clock offset: -3.154 ms
Remote clock offset: -0.464 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 50.568 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 51.853 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 51.028 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-23 18:46:22

End at: 2017-09-23 18:46:52

Local clock offset: -2.18 ms

Remote clock offset: 1.234 ms

Below is generated by plot.py at 2017-09-23 22:20:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.06 Mbit/s

95th percentile per-packet one-way delay: 54.247 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 54.208 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 4.46%

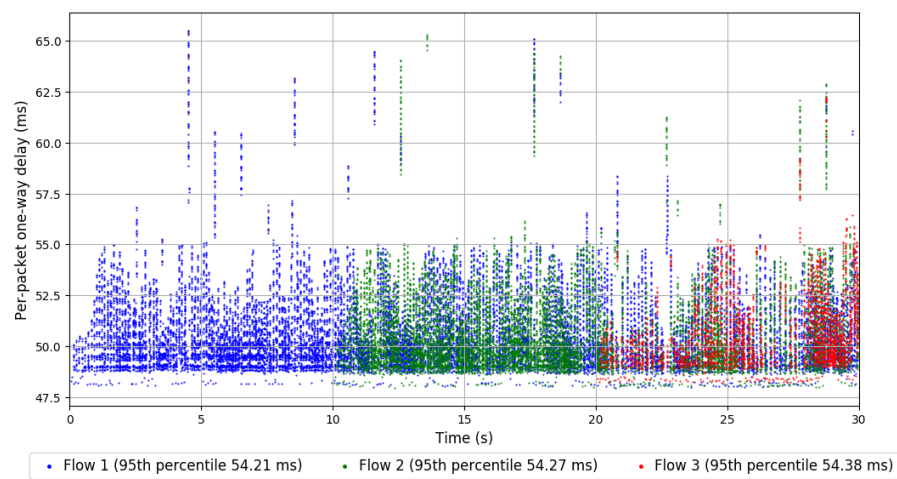
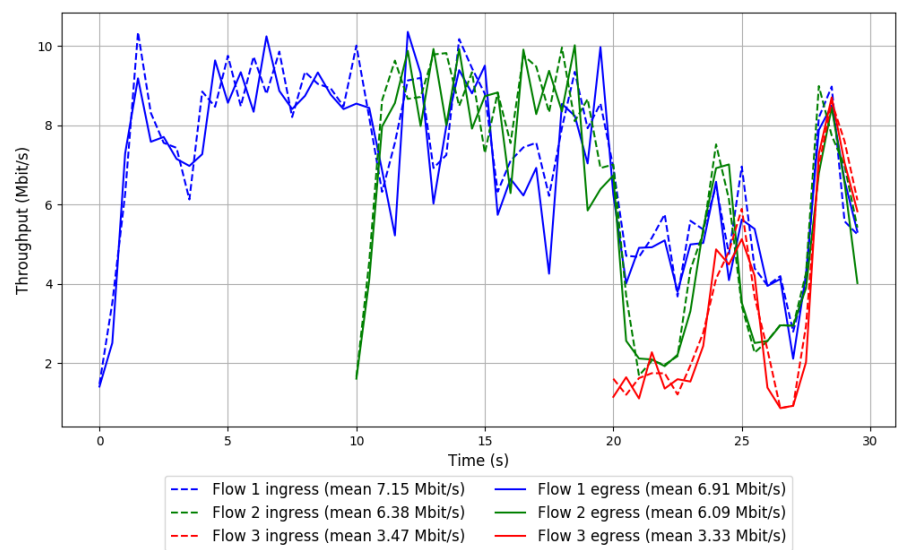
-- Flow 3:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 54.377 ms

Loss rate: 4.15%

Run 1: Report of Sprout — Data Link

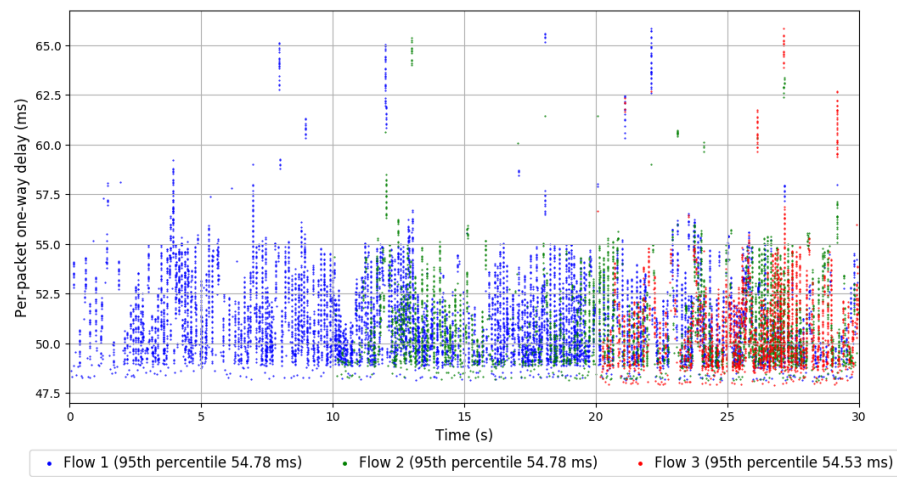
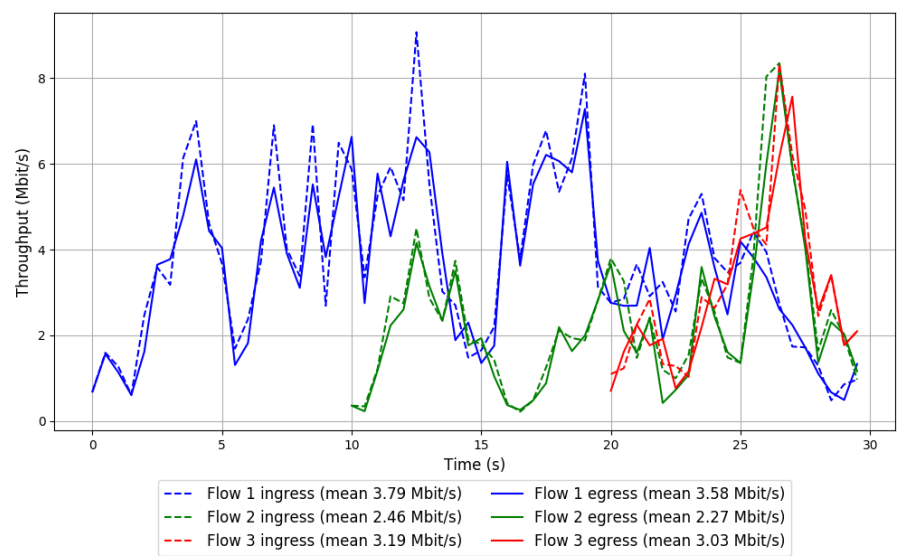


Run 2: Statistics of Sprout

Start at: 2017-09-23 19:05:19
End at: 2017-09-23 19:05:49
Local clock offset: -1.943 ms
Remote clock offset: 1.391 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 54.756 ms
Loss rate: 5.97%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 54.781 ms
Loss rate: 5.50%
-- Flow 2:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 54.778 ms
Loss rate: 7.70%
-- Flow 3:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 54.528 ms
Loss rate: 4.97%
```


Run 2: Report of Sprout — Data Link

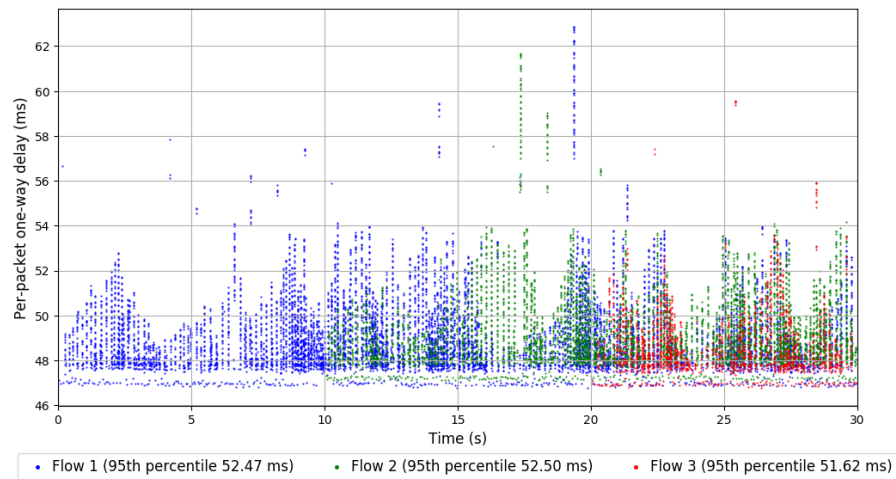
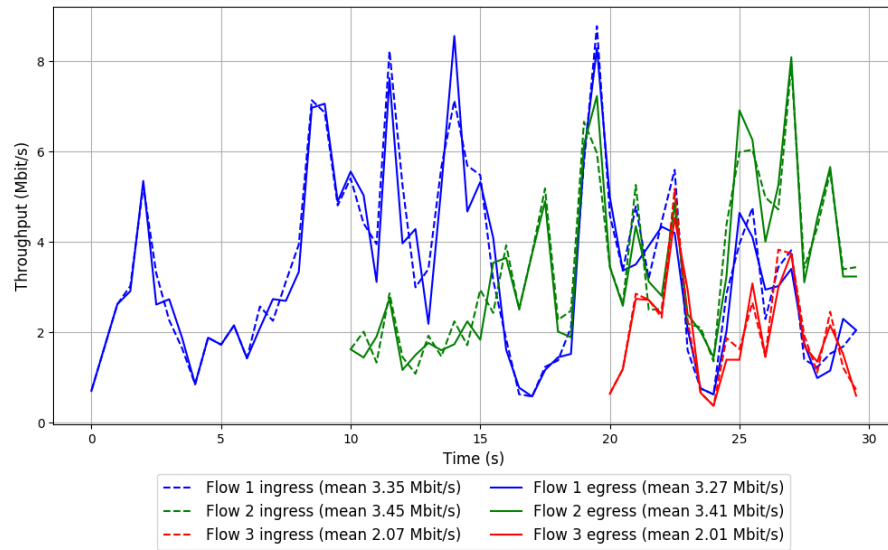


Run 3: Statistics of Sprout

Start at: 2017-09-23 19:26:02
End at: 2017-09-23 19:26:32
Local clock offset: -0.447 ms
Remote clock offset: 1.678 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 52.419 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 52.472 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 52.500 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 51.622 ms
Loss rate: 3.10%
```

Run 3: Report of Sprout — Data Link

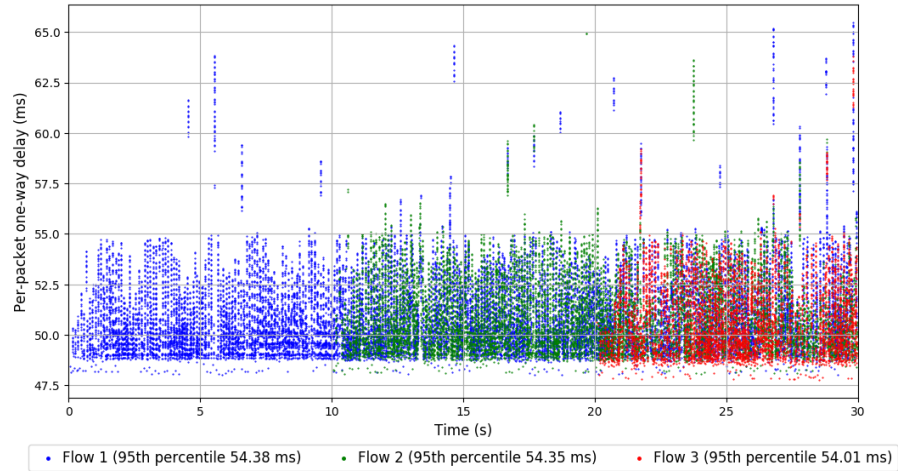
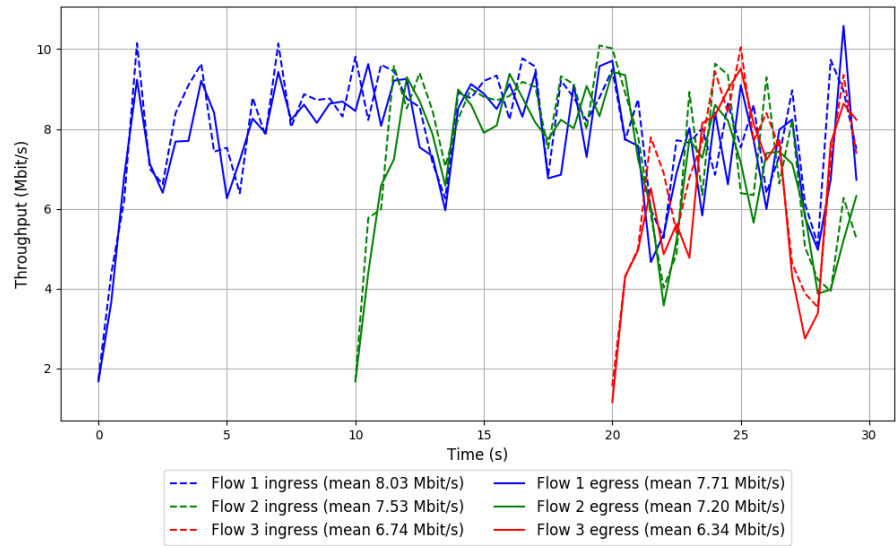


Run 4: Statistics of Sprout

Start at: 2017-09-23 19:44:23
End at: 2017-09-23 19:44:53
Local clock offset: -1.399 ms
Remote clock offset: 1.371 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 54.314 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 54.379 ms
Loss rate: 3.95%
-- Flow 2:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 54.354 ms
Loss rate: 4.46%
-- Flow 3:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 5.82%
```

Run 4: Report of Sprout — Data Link

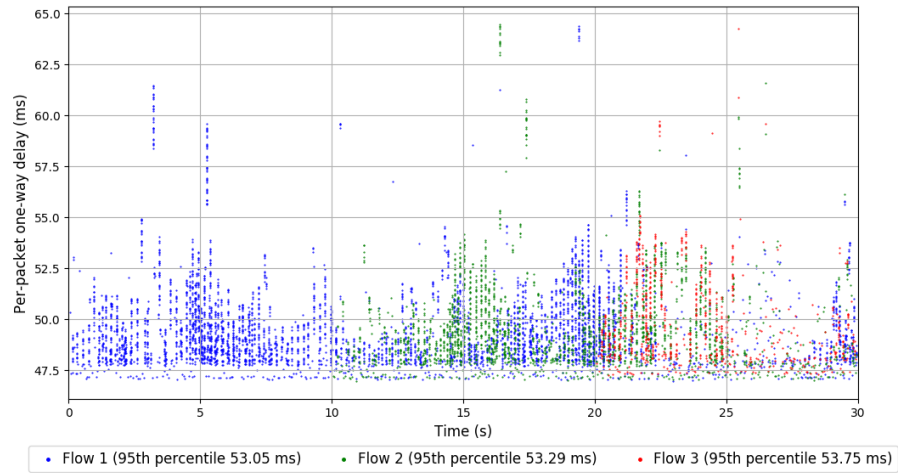
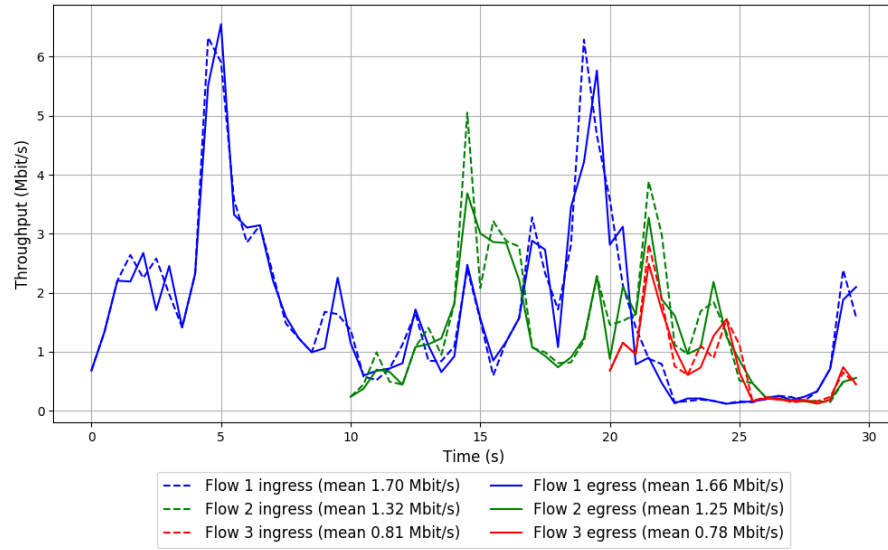


Run 5: Statistics of Sprout

Start at: 2017-09-23 20:04:14
End at: 2017-09-23 20:04:44
Local clock offset: -0.477 ms
Remote clock offset: 1.25 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 53.252 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 53.048 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 53.289 ms
Loss rate: 5.32%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 53.749 ms
Loss rate: 4.28%

Run 5: Report of Sprout — Data Link

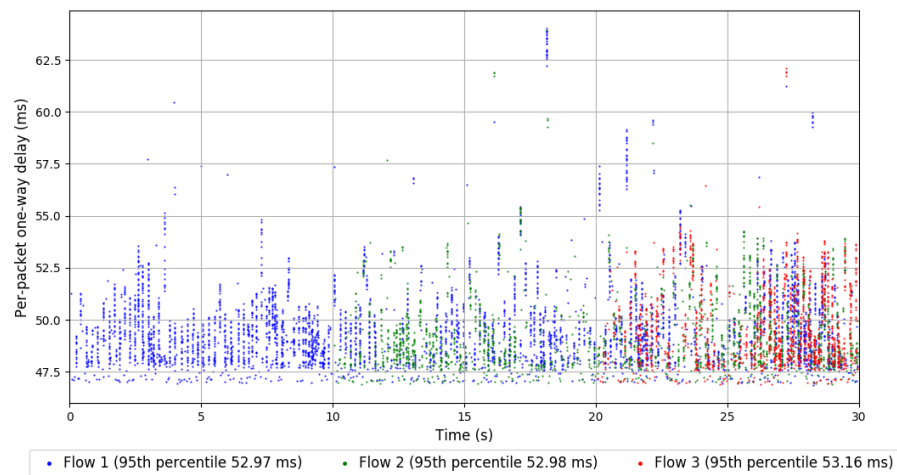
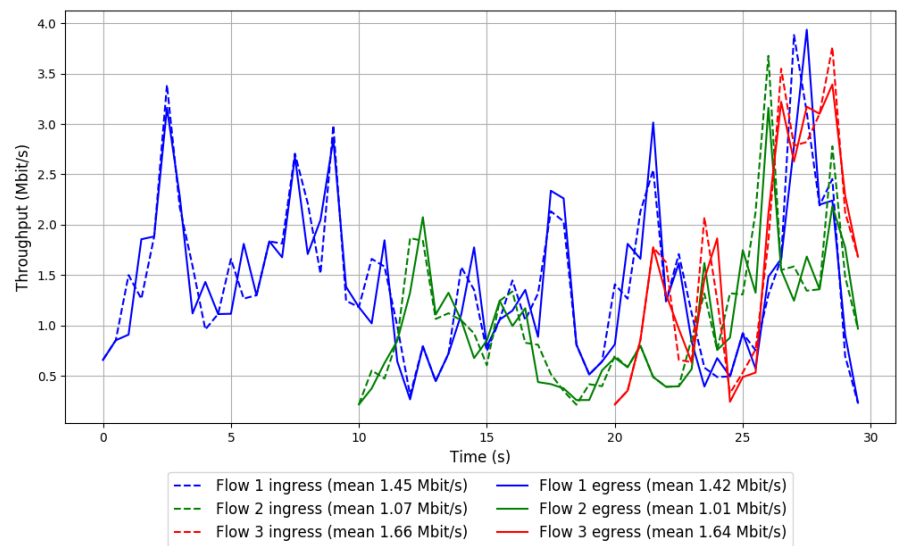


Run 6: Statistics of Sprout

Start at: 2017-09-23 20:28:58
End at: 2017-09-23 20:29:28
Local clock offset: -0.596 ms
Remote clock offset: 0.66 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 53.067 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 52.971 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 52.985 ms
Loss rate: 5.02%
-- Flow 3:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 53.163 ms
Loss rate: 1.34%
```


Run 6: Report of Sprout — Data Link

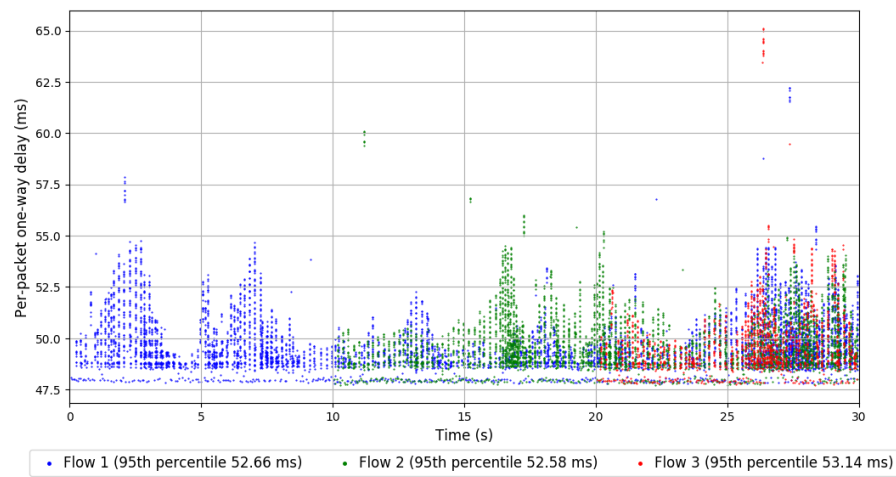
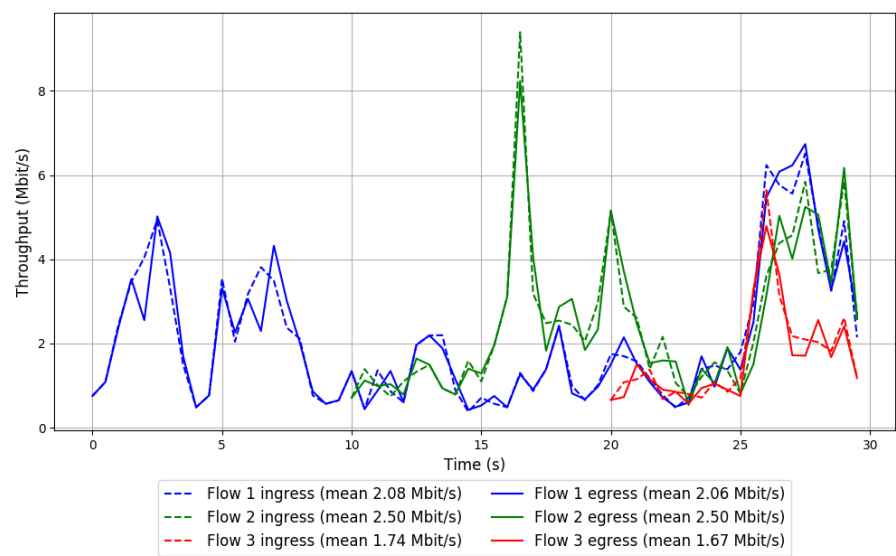


Run 7: Statistics of Sprout

Start at: 2017-09-23 20:55:44
End at: 2017-09-23 20:56:14
Local clock offset: -2.326 ms
Remote clock offset: 0.191 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 52.670 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 52.663 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 52.581 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 53.144 ms
Loss rate: 3.91%
```

Run 7: Report of Sprout — Data Link

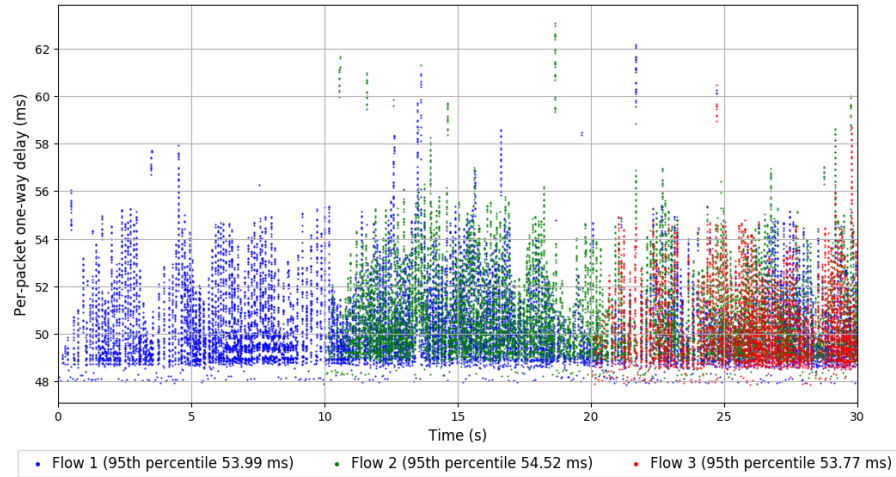
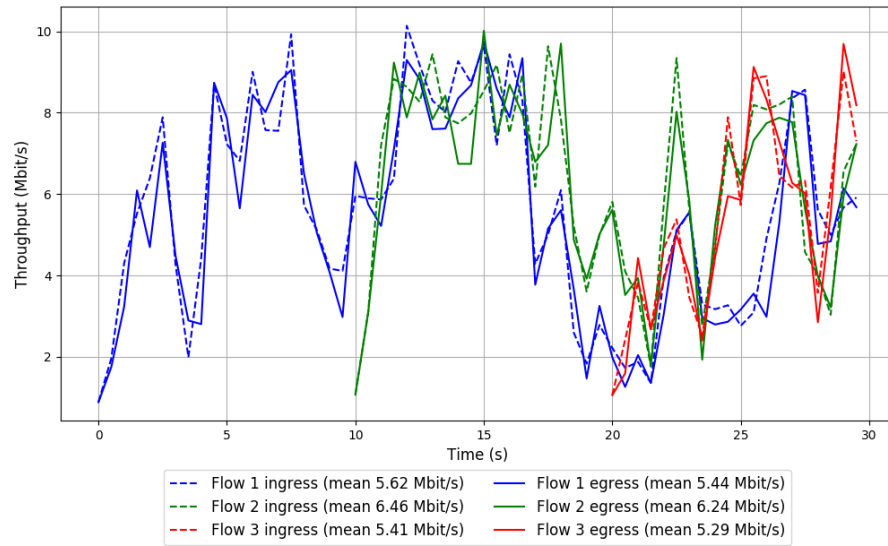


Run 8: Statistics of Sprout

Start at: 2017-09-23 21:16:49
End at: 2017-09-23 21:17:19
Local clock offset: -2.792 ms
Remote clock offset: 0.027 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 54.159 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 53.987 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 54.524 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 53.775 ms
Loss rate: 2.31%
```

Run 8: Report of Sprout — Data Link

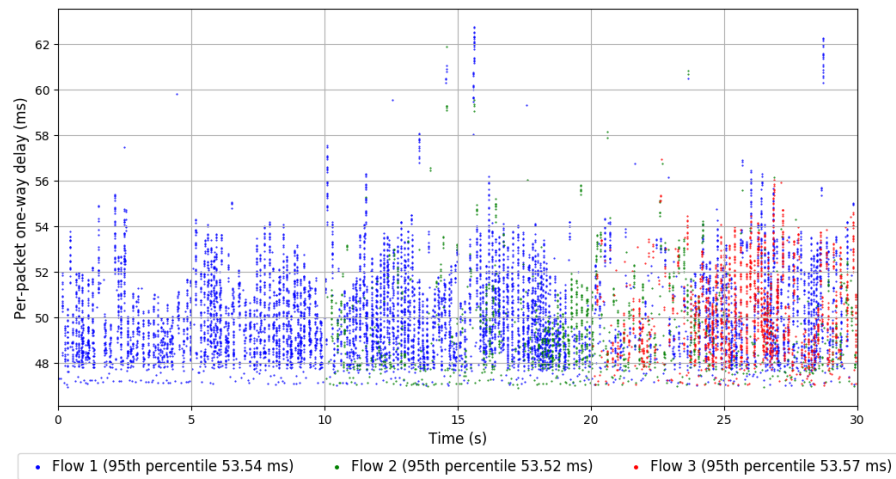
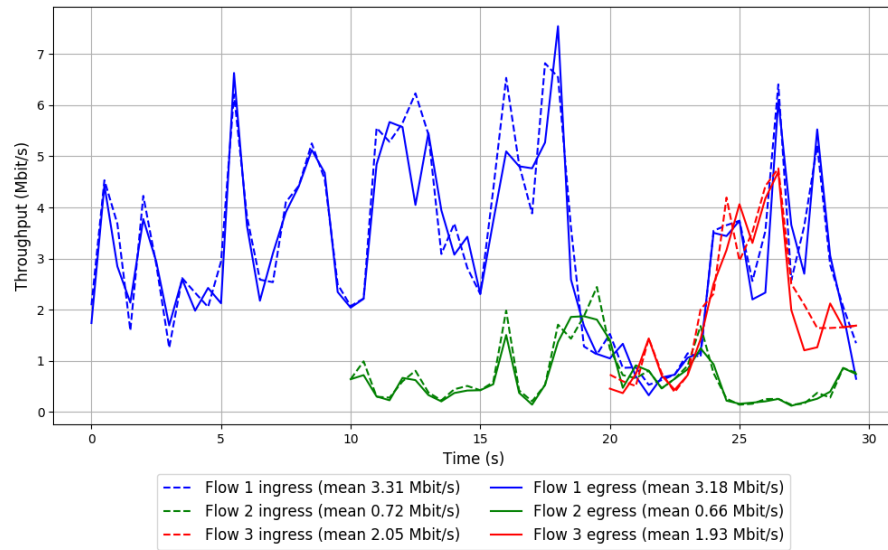


Run 9: Statistics of Sprout

Start at: 2017-09-23 21:37:00
End at: 2017-09-23 21:37:30
Local clock offset: -2.074 ms
Remote clock offset: -0.177 ms

```
# Below is generated by plot.py at 2017-09-23 22:20:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 53.542 ms
Loss rate: 4.76%
-- Flow 1:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 53.536 ms
Loss rate: 4.15%
-- Flow 2:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 53.519 ms
Loss rate: 7.33%
-- Flow 3:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 53.569 ms
Loss rate: 5.93%
```

Run 9: Report of Sprout — Data Link

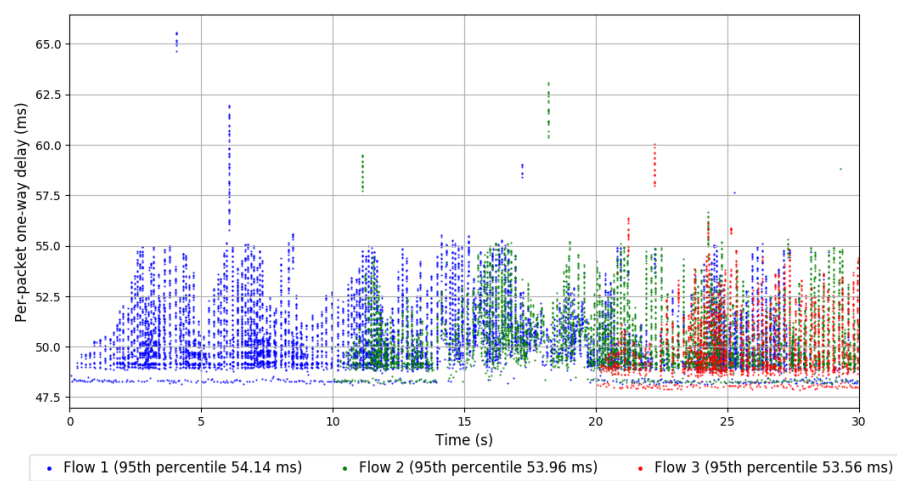
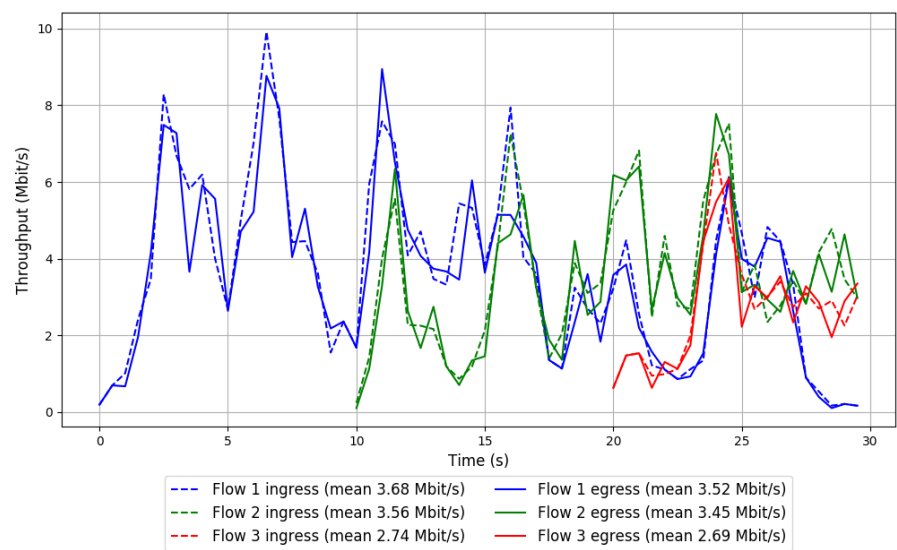


Run 10: Statistics of Sprout

Start at: 2017-09-23 21:59:23
End at: 2017-09-23 21:59:53
Local clock offset: -3.271 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2017-09-23 22:20:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 54.035 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 54.142 ms
Loss rate: 4.27%
-- Flow 2:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 53.963 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 53.556 ms
Loss rate: 1.76%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

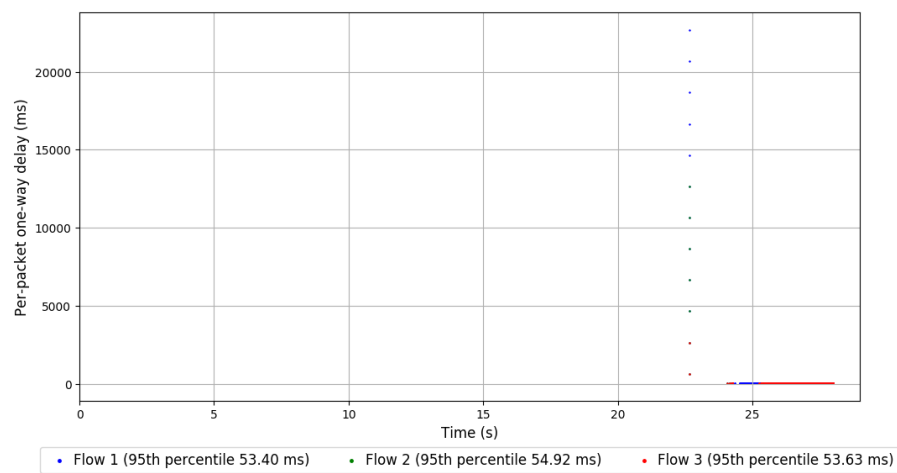
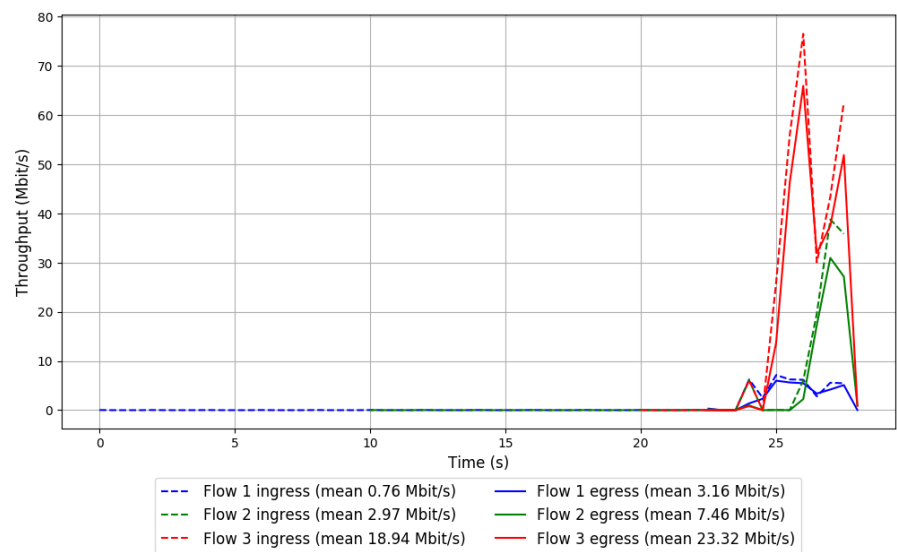
Start at: 2017-09-23 18:54:17

End at: 2017-09-23 18:54:47

Local clock offset: -0.909 ms

Remote clock offset: 1.234 ms

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-09-23 19:13:44

End at: 2017-09-23 19:14:14

Local clock offset: -0.599 ms

Remote clock offset: 1.579 ms

Below is generated by plot.py at 2017-09-23 22:21:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 6.09%

-- Flow 1:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 5.75%

-- Flow 2:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 52.638 ms

Loss rate: 4.64%

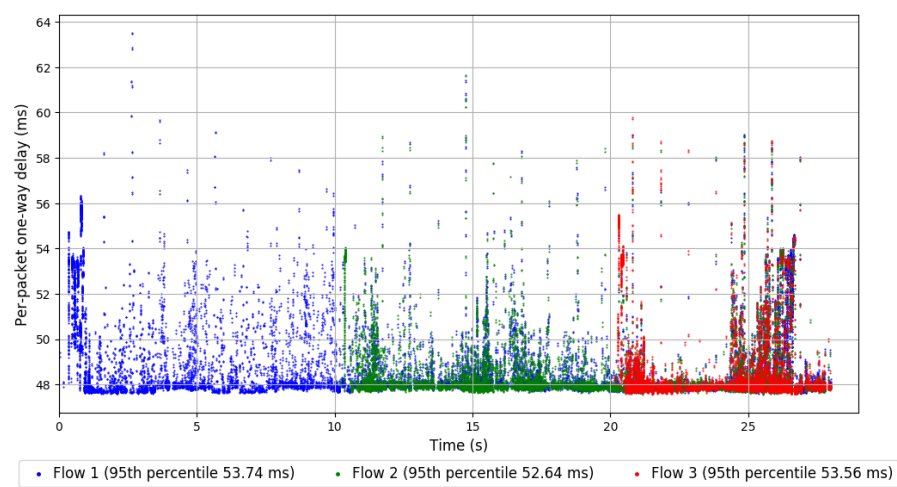
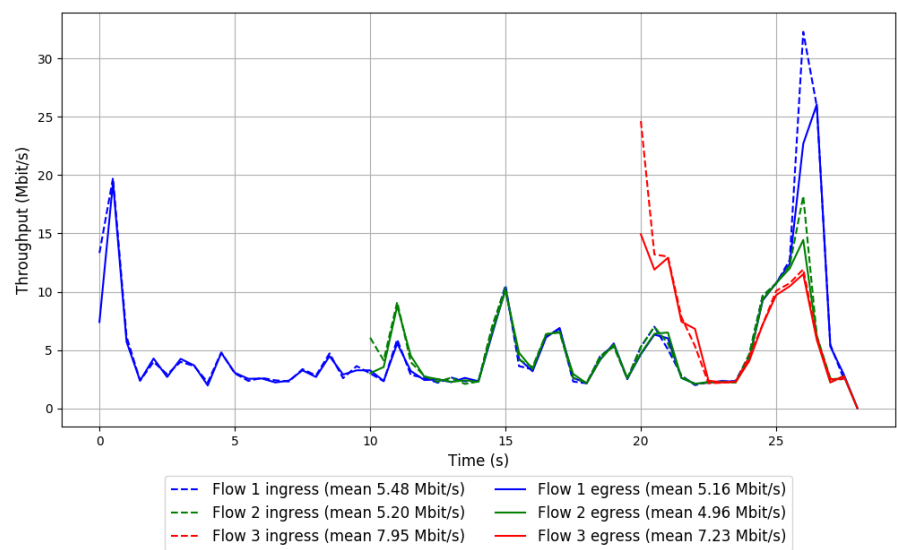
-- Flow 3:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 9.03%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-23 19:34:03

End at: 2017-09-23 19:34:33

Local clock offset: -1.398 ms

Remote clock offset: 1.466 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 8.59%

-- Flow 1:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 64.166 ms

Loss rate: 6.69%

-- Flow 2:

Average throughput: 10.55 Mbit/s

95th percentile per-packet one-way delay: 63.271 ms

Loss rate: 19.15%

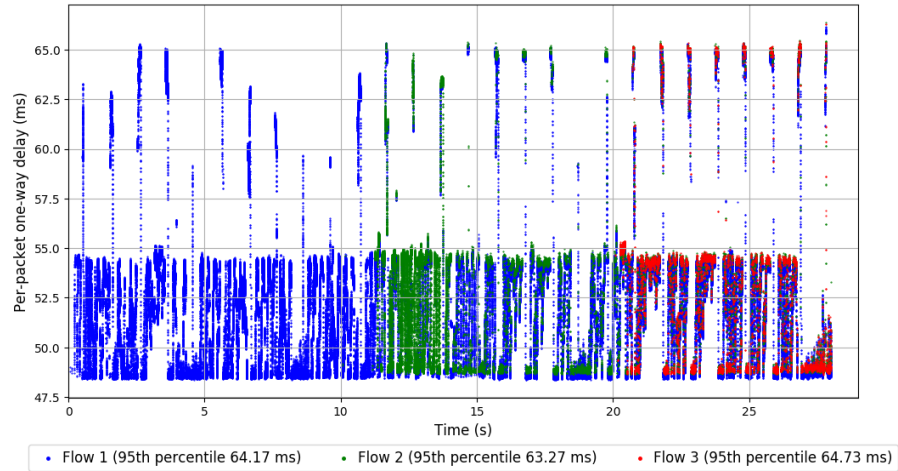
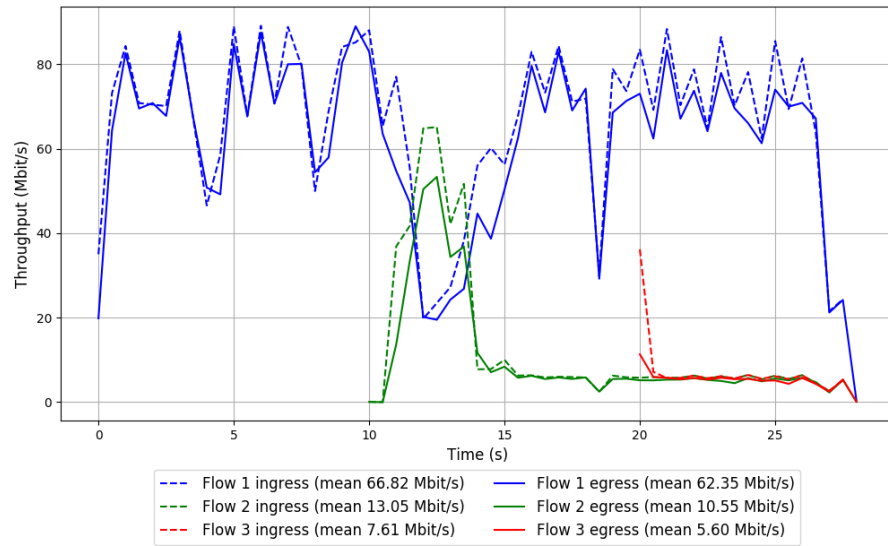
-- Flow 3:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 64.730 ms

Loss rate: 26.47%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-23 19:52:23

End at: 2017-09-23 19:52:53

Local clock offset: -0.318 ms

Remote clock offset: 1.257 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 54.245 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 52.786 ms

Loss rate: 1.84%

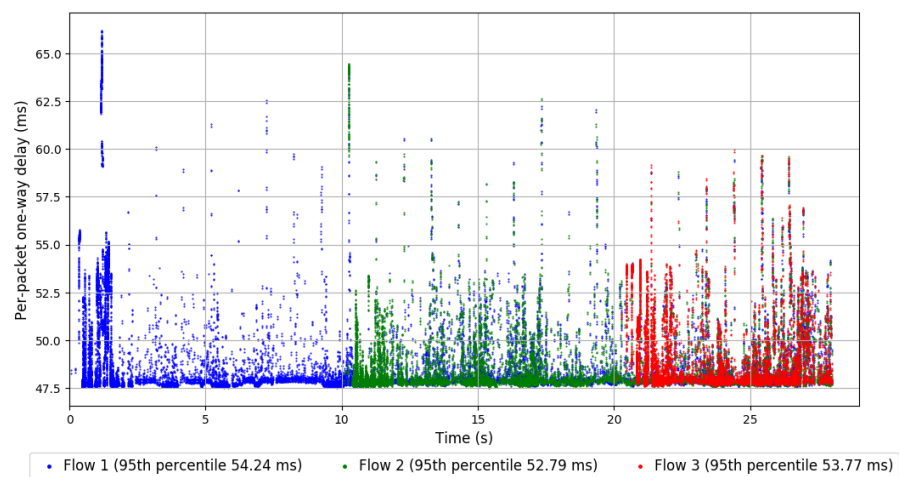
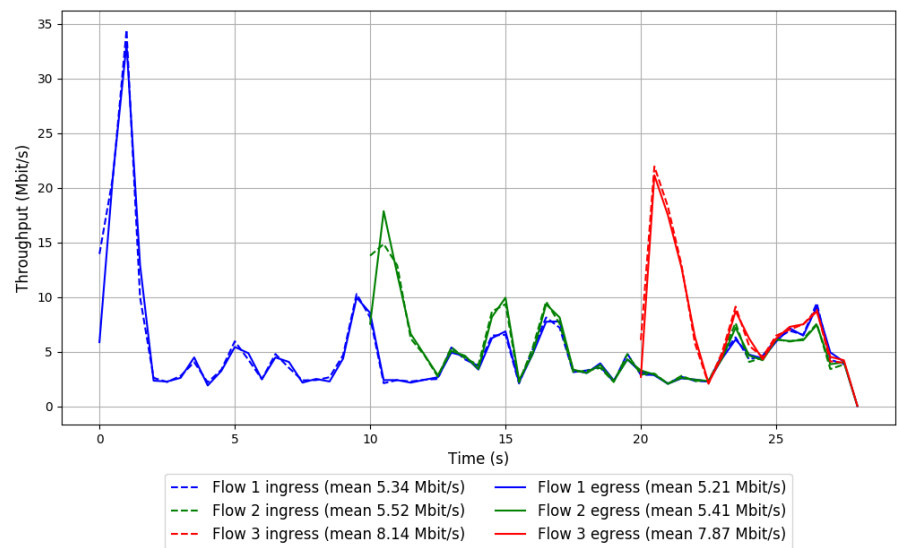
-- Flow 3:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 3.39%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-23 20:14:29

End at: 2017-09-23 20:14:59

Local clock offset: -1.439 ms

Remote clock offset: 0.874 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 4.07%

-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 50.163 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 54.145 ms

Loss rate: 3.32%

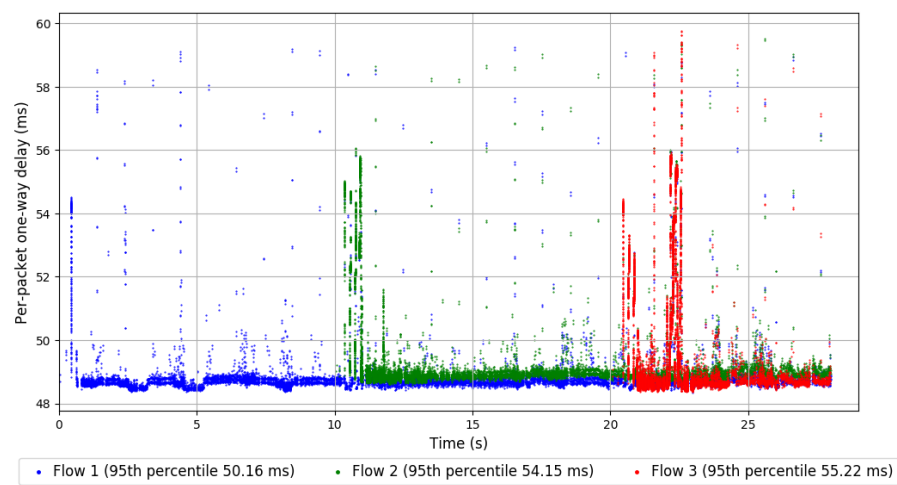
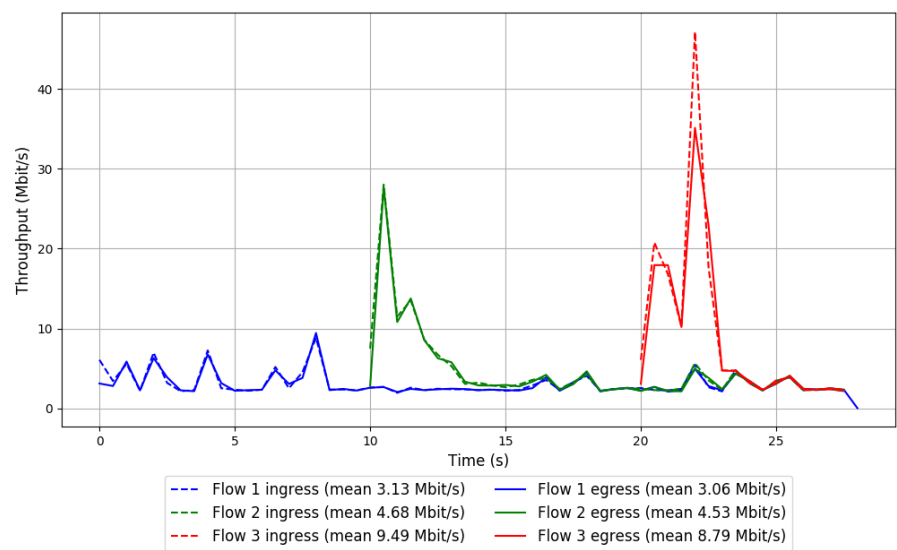
-- Flow 3:

Average throughput: 8.79 Mbit/s

95th percentile per-packet one-way delay: 55.220 ms

Loss rate: 7.31%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-23 20:41:57

End at: 2017-09-23 20:42:27

Local clock offset: -1.057 ms

Remote clock offset: 0.403 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 56.265 ms

Loss rate: 6.75%

-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 56.193 ms

Loss rate: 4.65%

-- Flow 2:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 58.345 ms

Loss rate: 5.13%

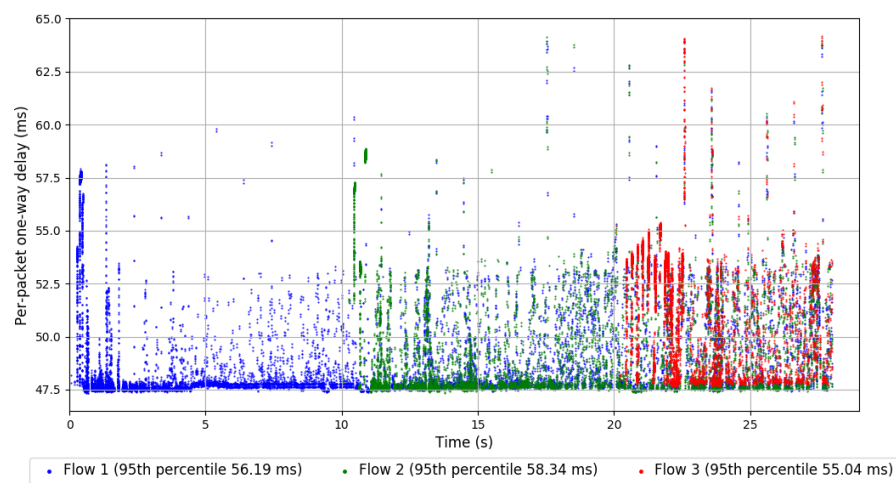
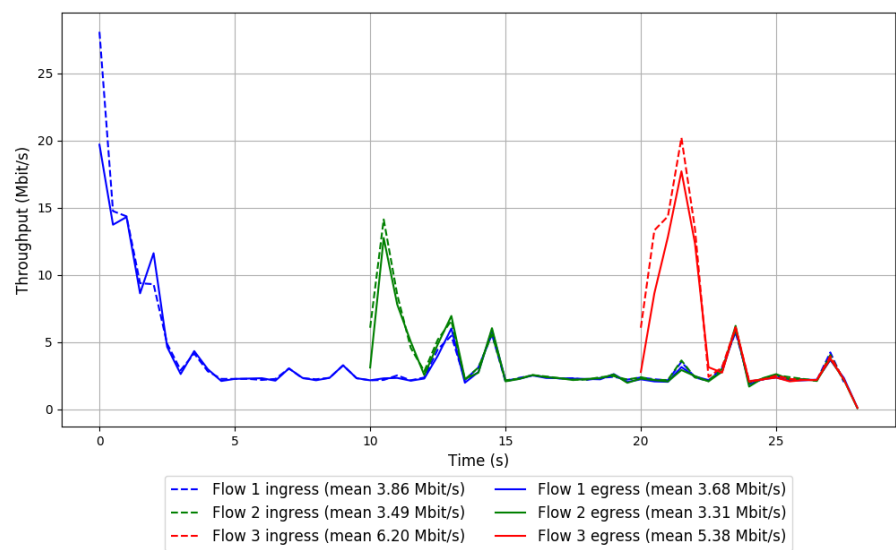
-- Flow 3:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 55.044 ms

Loss rate: 13.40%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-23 21:04:43

End at: 2017-09-23 21:05:13

Local clock offset: -1.388 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 48.290 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 48.216 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 48.411 ms

Loss rate: 2.12%

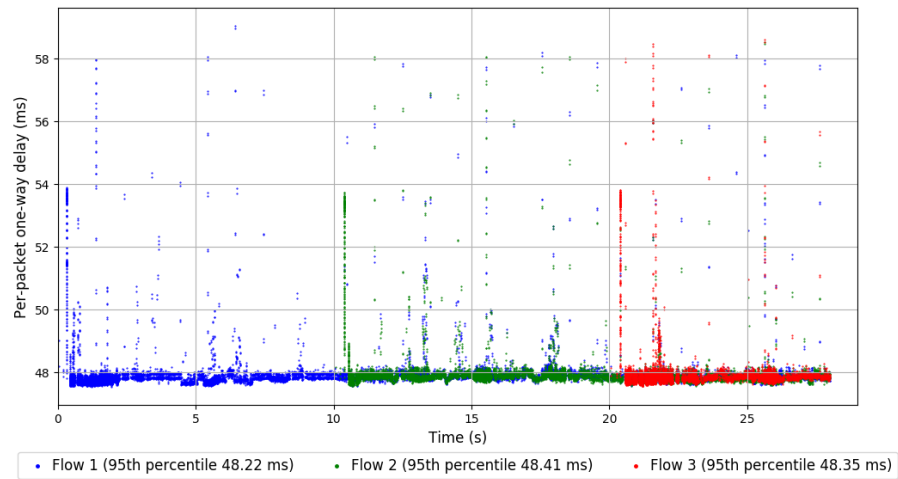
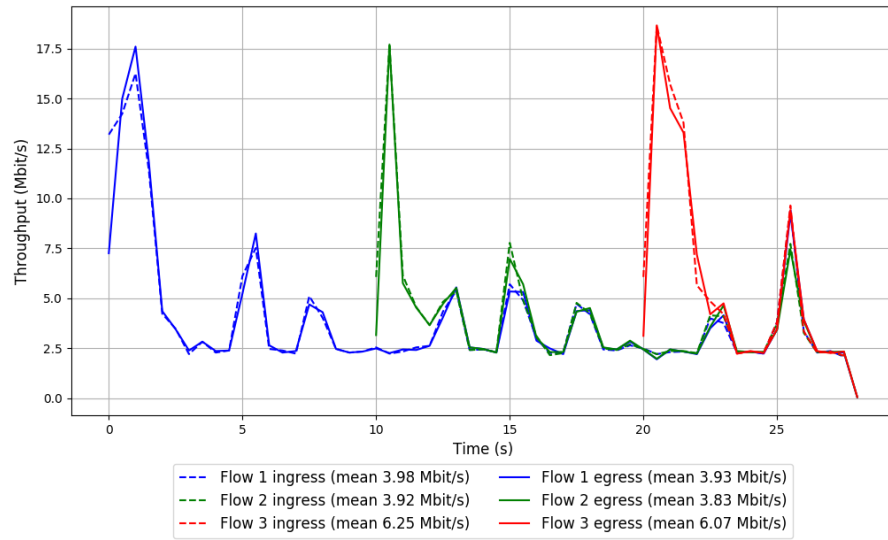
-- Flow 3:

Average throughput: 6.07 Mbit/s

95th percentile per-packet one-way delay: 48.351 ms

Loss rate: 2.97%

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

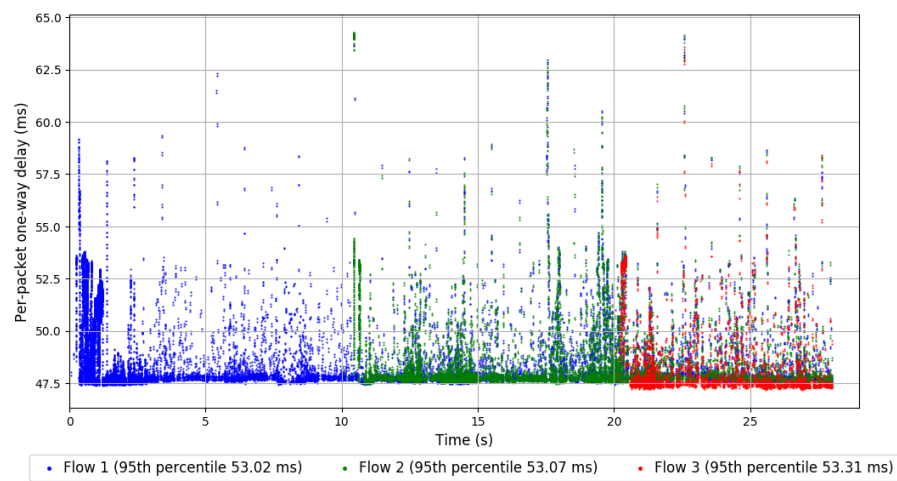
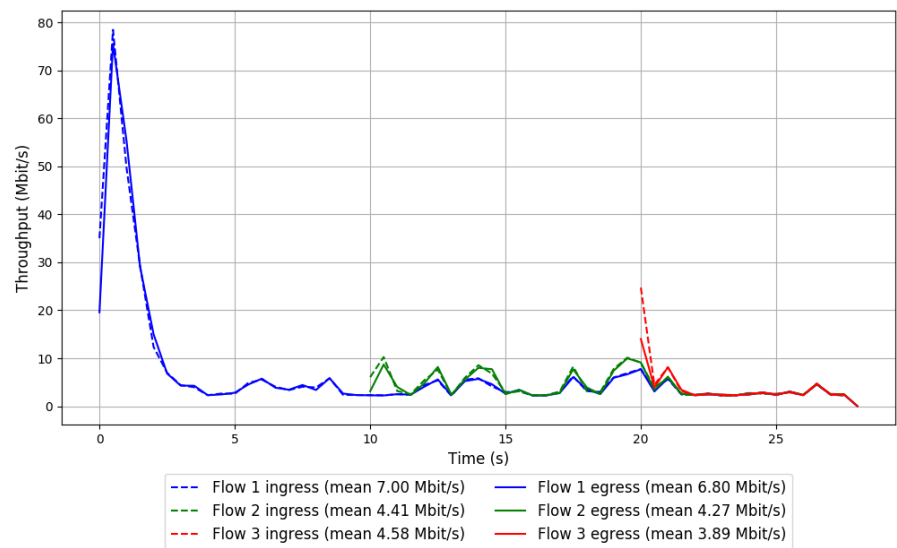


Run 8: Statistics of TaoVA-100x

Start at: 2017-09-23 21:25:25
End at: 2017-09-23 21:25:55
Local clock offset: -1.699 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 53.120 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 53.023 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 53.068 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 53.311 ms
Loss rate: 14.93%

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

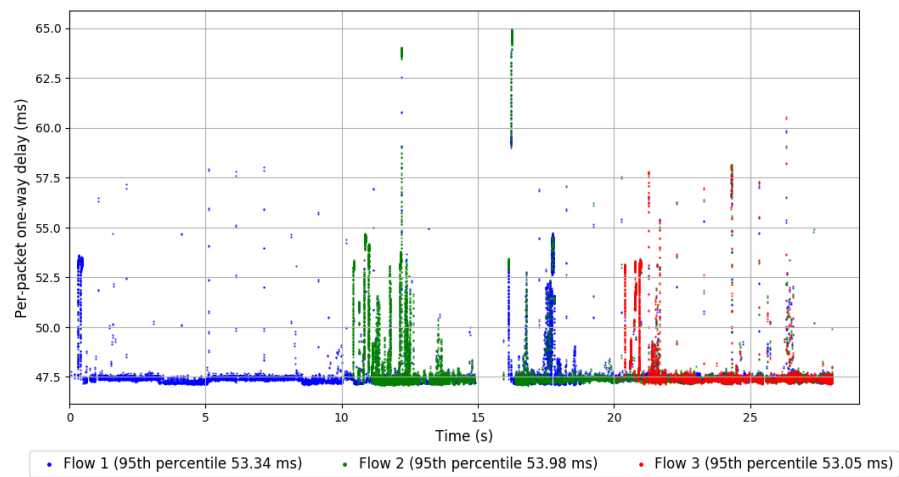
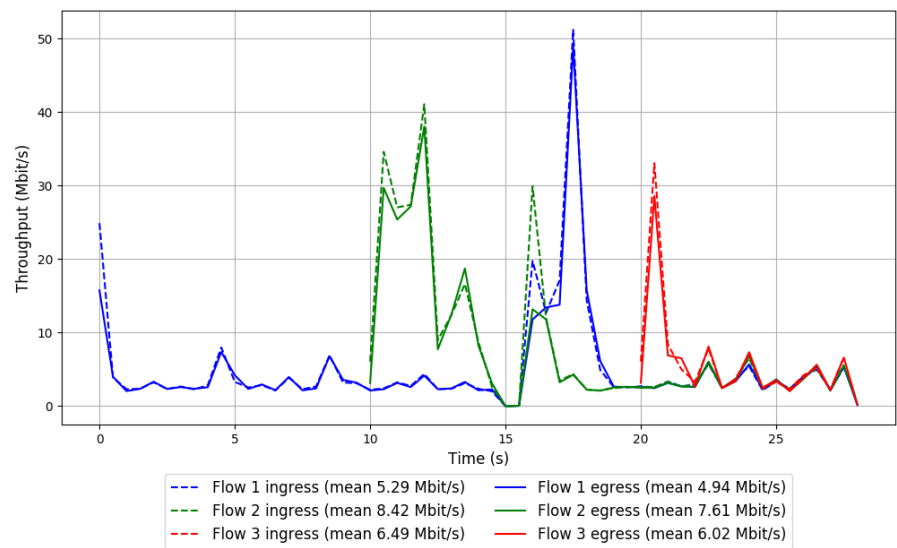


Run 9: Statistics of TaoVA-100x

Start at: 2017-09-23 21:46:04
End at: 2017-09-23 21:46:34
Local clock offset: -1.844 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 53.391 ms
Loss rate: 8.02%
-- Flow 1:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 53.339 ms
Loss rate: 6.69%
-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.975 ms
Loss rate: 9.61%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 53.051 ms
Loss rate: 7.15%

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

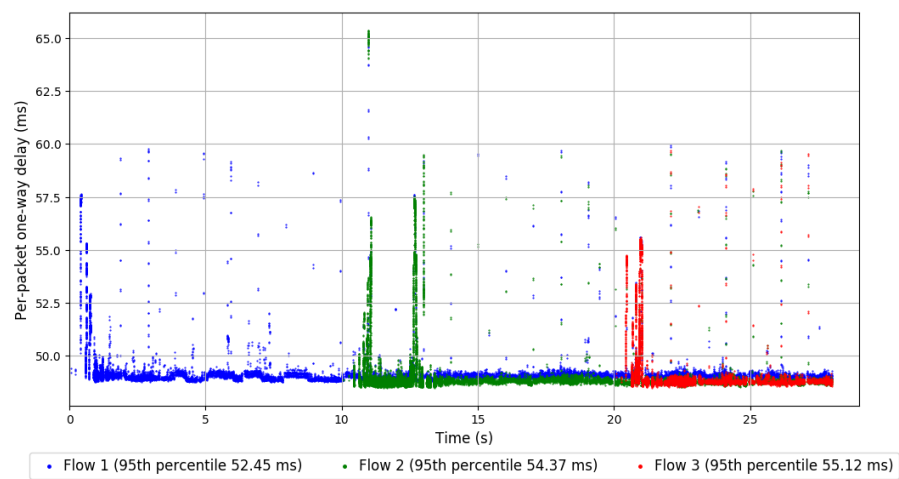
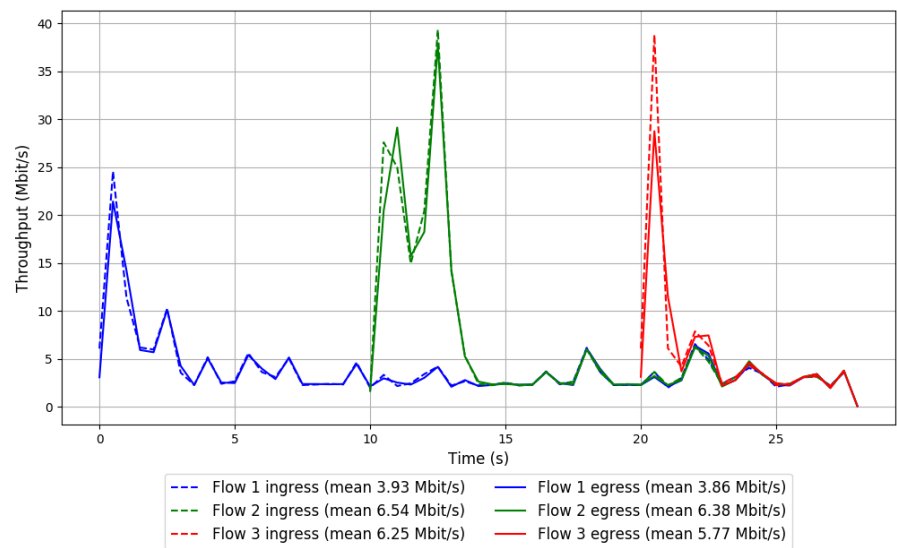


Run 10: Statistics of TaoVA-100x

Start at: 2017-09-23 22:07:59
End at: 2017-09-23 22:08:29
Local clock offset: -3.196 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 54.131 ms
Loss rate: 3.14%
-- Flow 1:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 52.448 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 54.368 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 55.115 ms
Loss rate: 7.69%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-23 18:43:58

End at: 2017-09-23 18:44:28

Local clock offset: -2.14 ms

Remote clock offset: 1.053 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.33 Mbit/s

95th percentile per-packet one-way delay: 53.085 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 52.906 ms

Loss rate: 0.79%

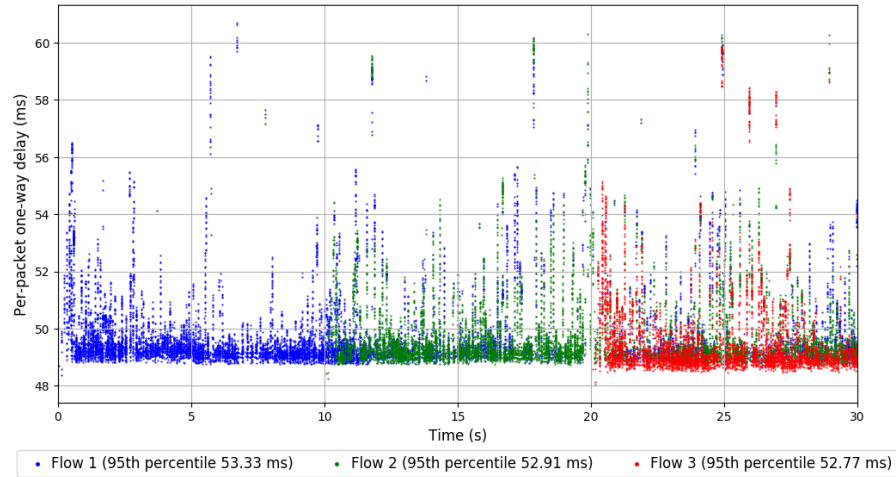
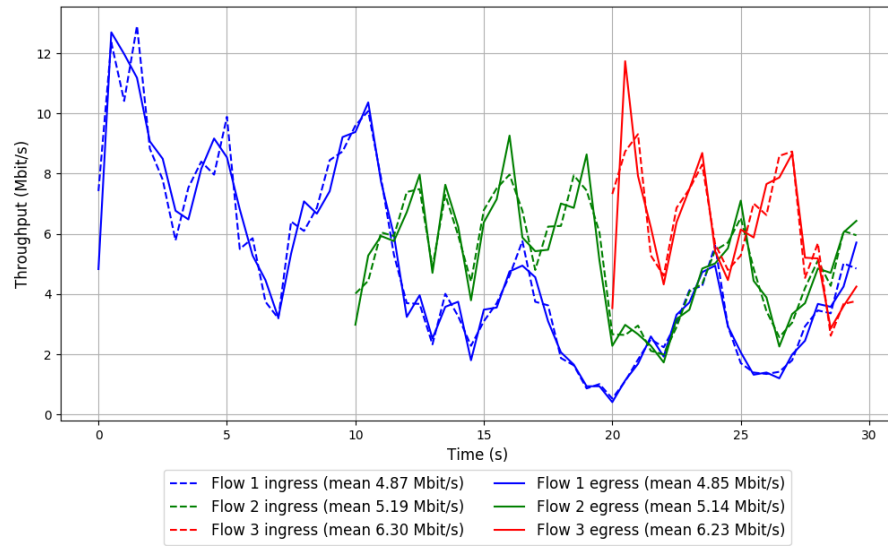
-- Flow 3:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 52.774 ms

Loss rate: 1.13%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-23 19:02:47

End at: 2017-09-23 19:03:17

Local clock offset: -1.824 ms

Remote clock offset: 1.494 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 55.054 ms

Loss rate: 3.59%

-- Flow 1:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 54.474 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 54.931 ms

Loss rate: 3.87%

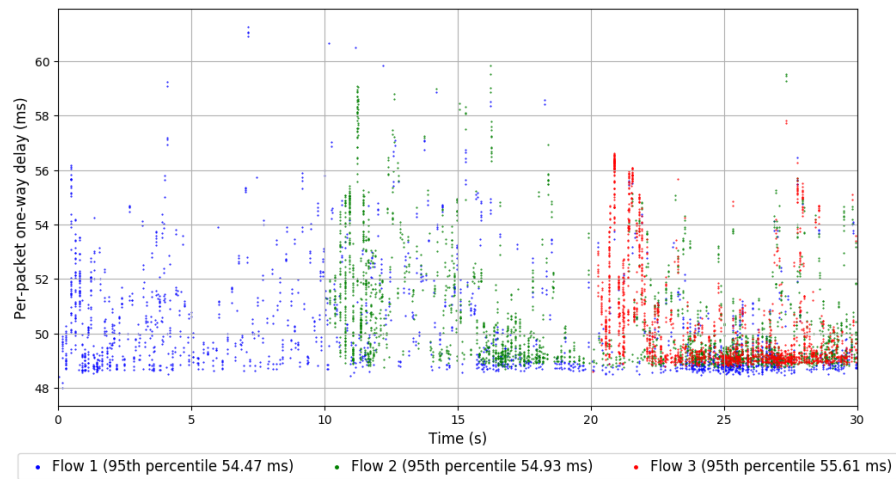
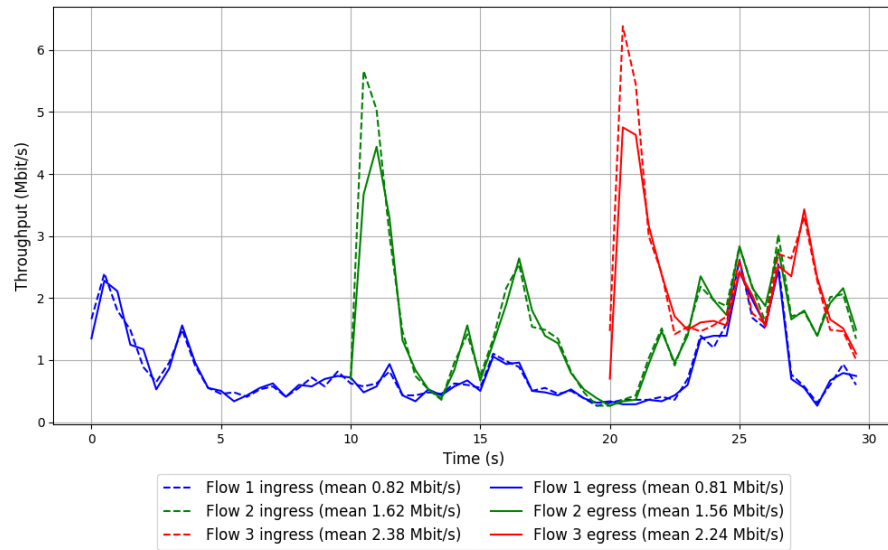
-- Flow 3:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 55.612 ms

Loss rate: 5.74%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

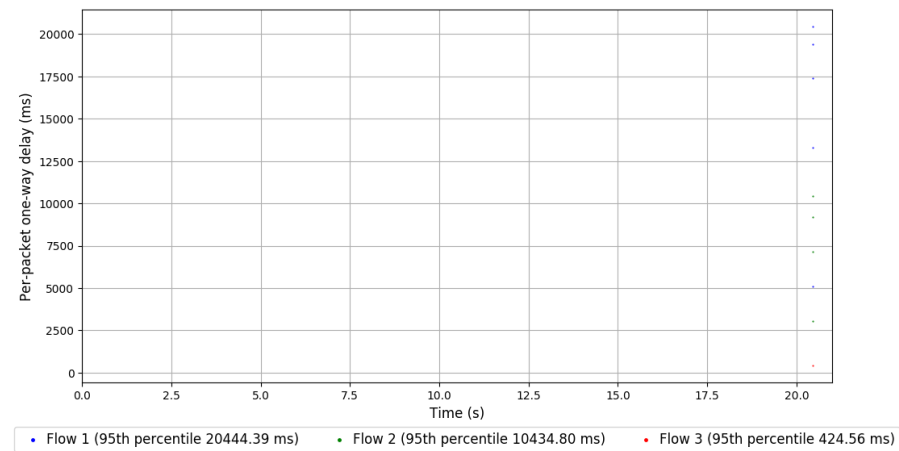
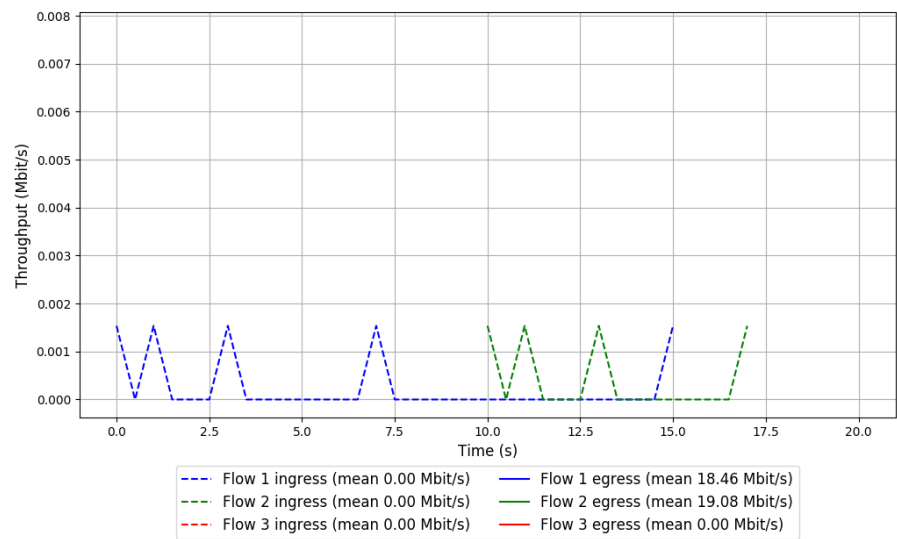
Start at: 2017-09-23 19:23:24

End at: 2017-09-23 19:23:54

Local clock offset: -1.584 ms

Remote clock offset: 1.686 ms

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

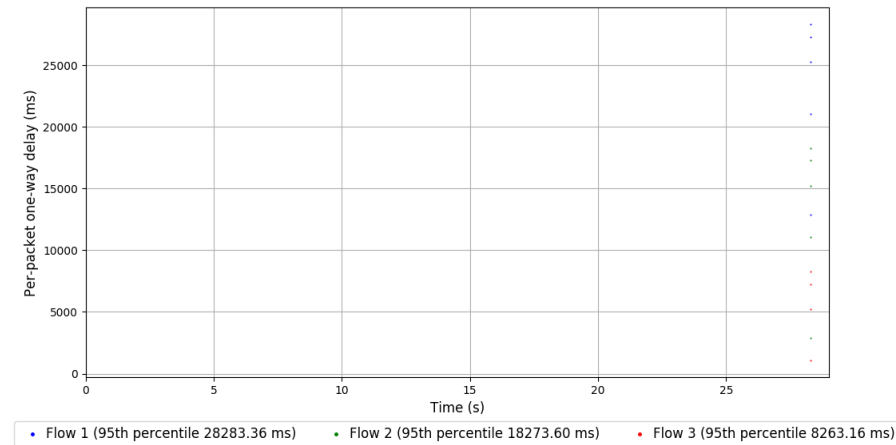
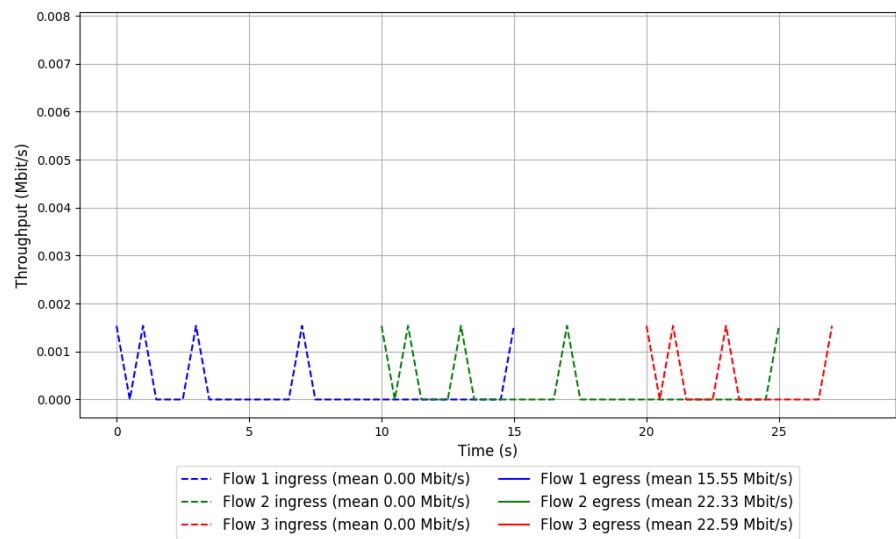
Start at: 2017-09-23 19:42:01

End at: 2017-09-23 19:42:31

Local clock offset: -1.346 ms

Remote clock offset: 1.413 ms

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-23 20:01:35

End at: 2017-09-23 20:02:05

Local clock offset: -0.419 ms

Remote clock offset: 1.075 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 52.192 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.12%

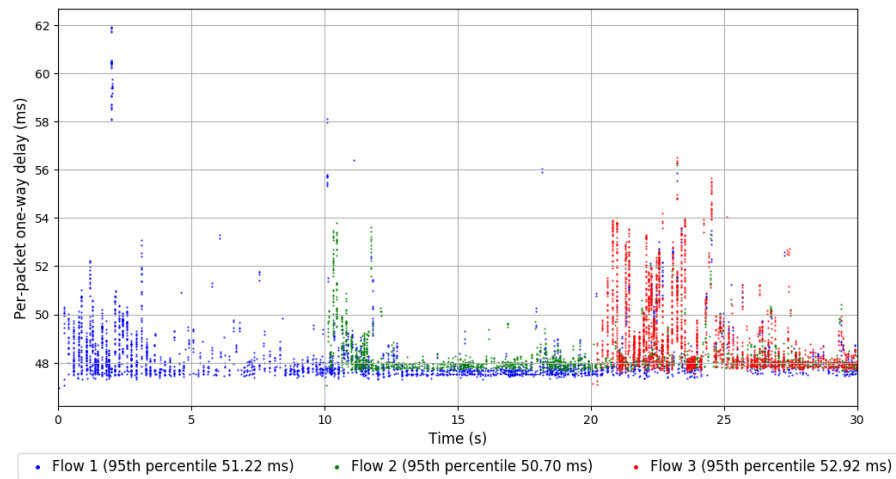
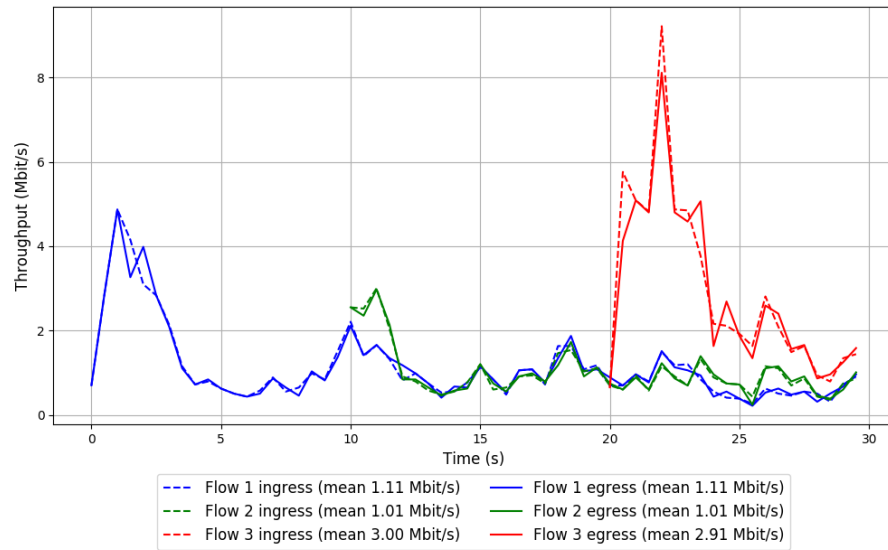
-- Flow 3:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 52.924 ms

Loss rate: 2.95%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-23 20:26:18

End at: 2017-09-23 20:26:48

Local clock offset: -0.448 ms

Remote clock offset: 0.788 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 51.792 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 51.474 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 51.438 ms

Loss rate: 0.34%

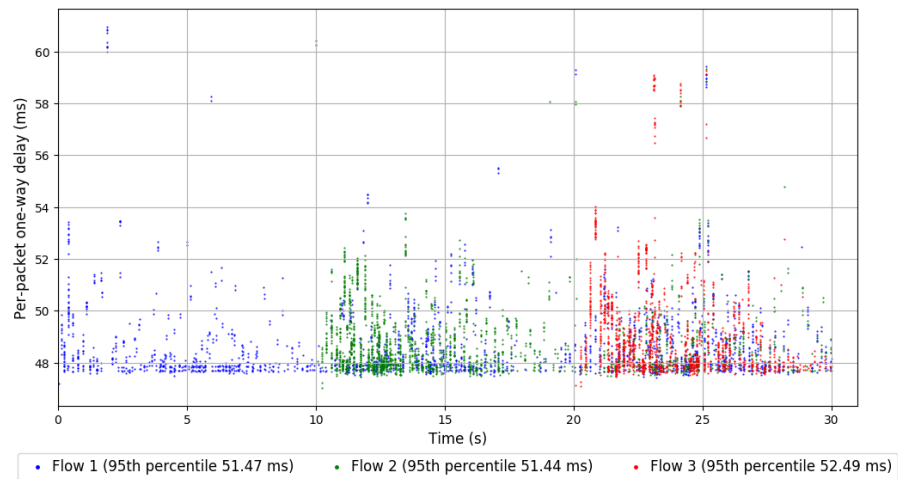
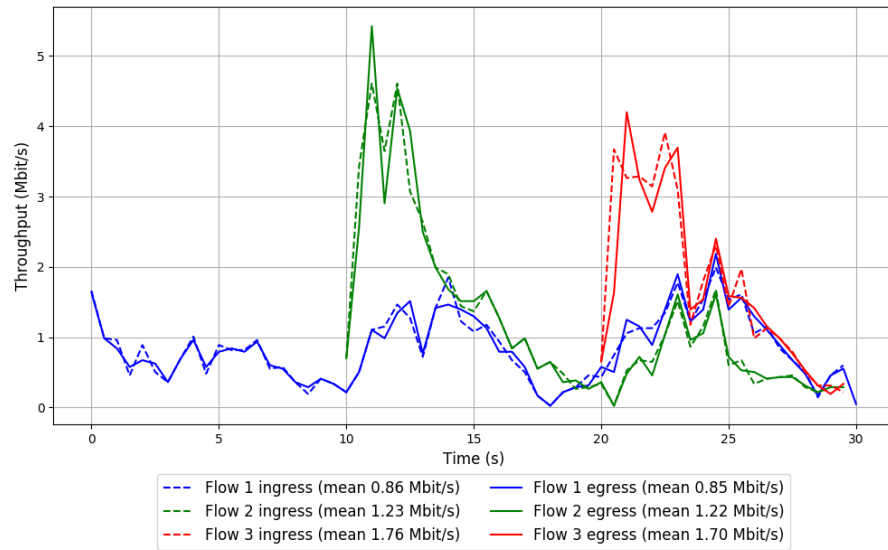
-- Flow 3:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 52.491 ms

Loss rate: 3.36%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-23 20:52:55

End at: 2017-09-23 20:53:25

Local clock offset: -2.342 ms

Remote clock offset: 0.309 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 52.101 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 52.308 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 51.902 ms

Loss rate: 0.08%

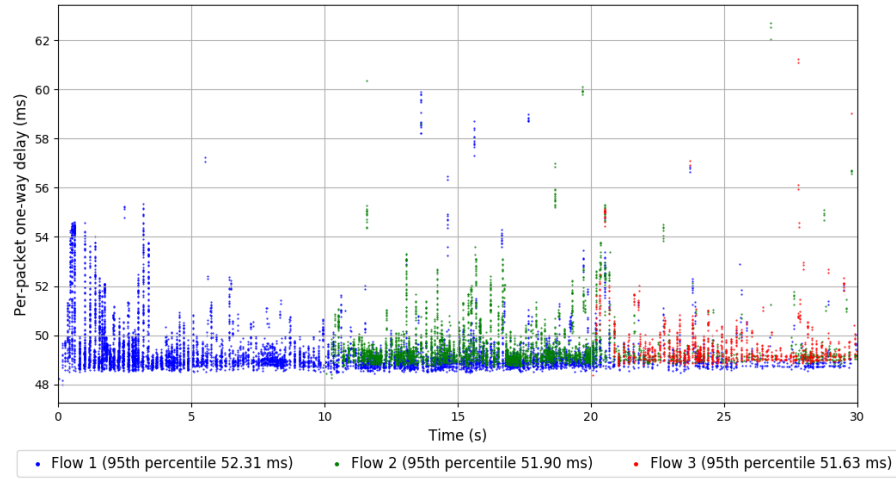
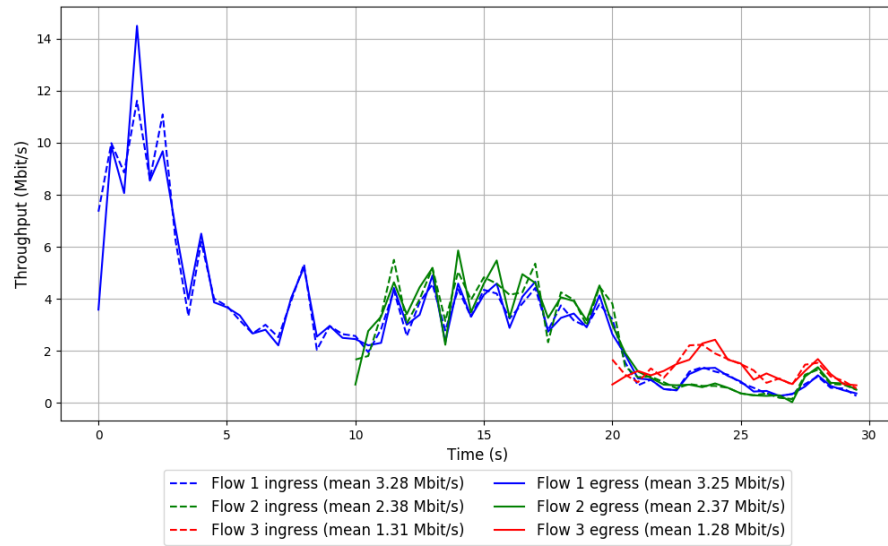
-- Flow 3:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 51.635 ms

Loss rate: 2.32%

Run 7: Report of TCP Vegas — Data Link

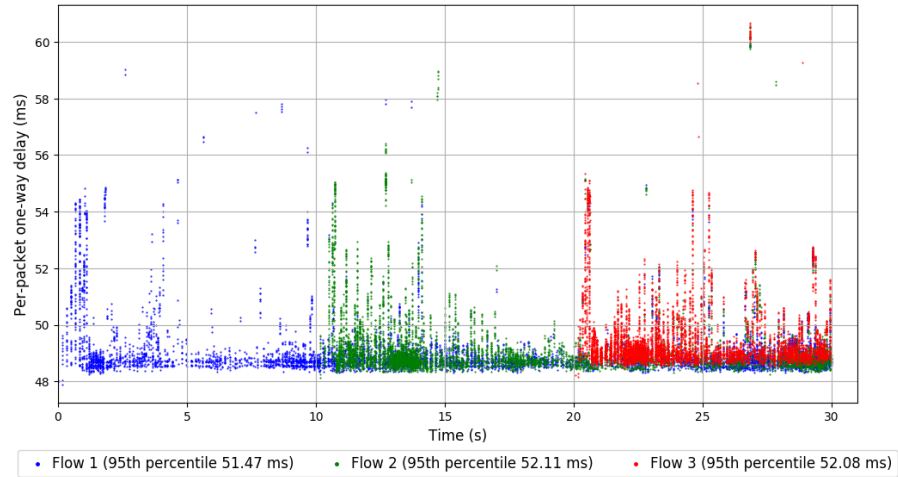
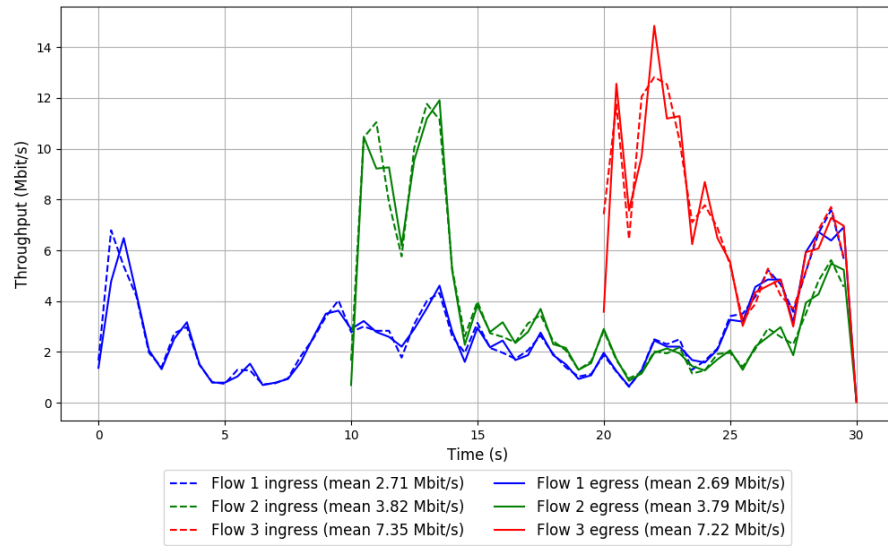


Run 8: Statistics of TCP Vegas

Start at: 2017-09-23 21:14:24
End at: 2017-09-23 21:14:54
Local clock offset: -2.732 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 51.470 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 52.111 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 1.74%

Run 8: Report of TCP Vegas — Data Link

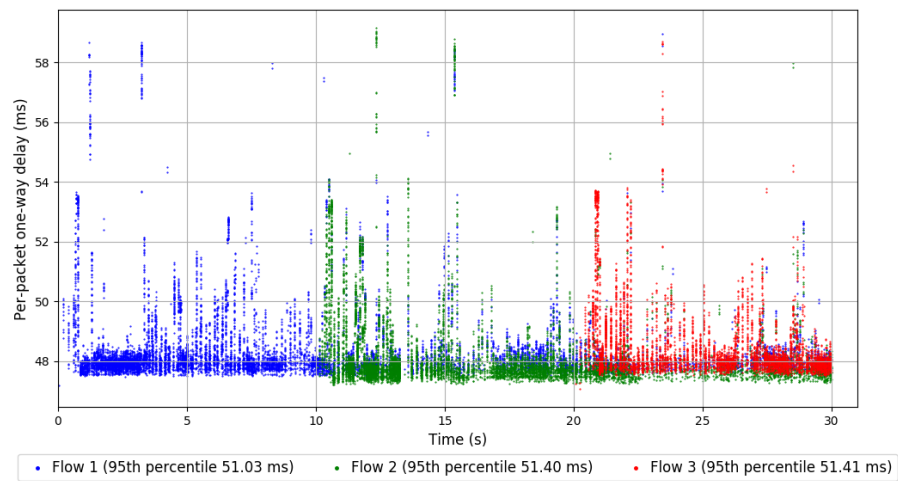
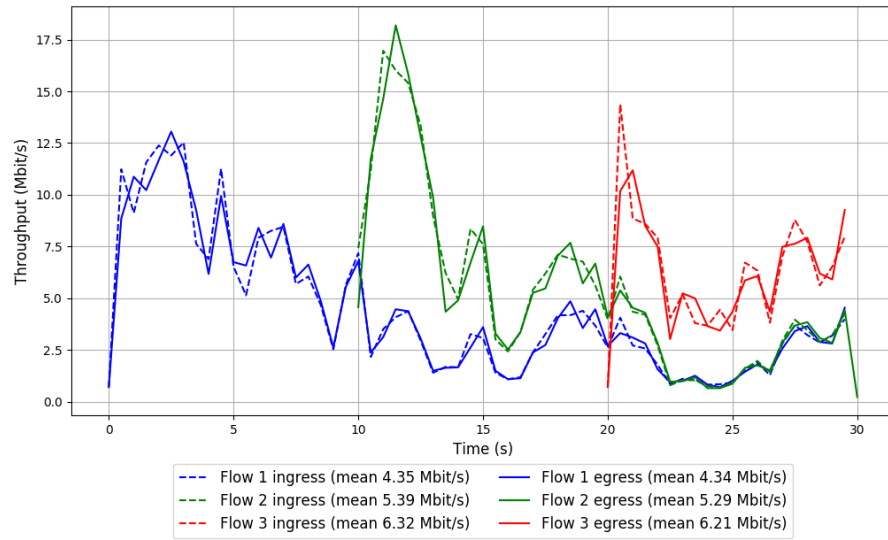


Run 9: Statistics of TCP Vegas

Start at: 2017-09-23 21:34:25
End at: 2017-09-23 21:34:55
Local clock offset: -1.948 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 51.263 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 51.032 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 51.401 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 51.415 ms
Loss rate: 1.72%

Run 9: Report of TCP Vegas — Data Link

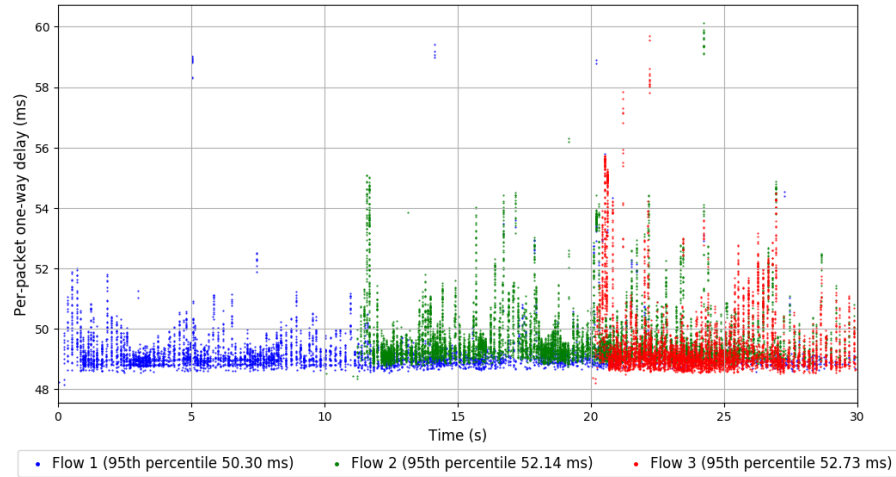
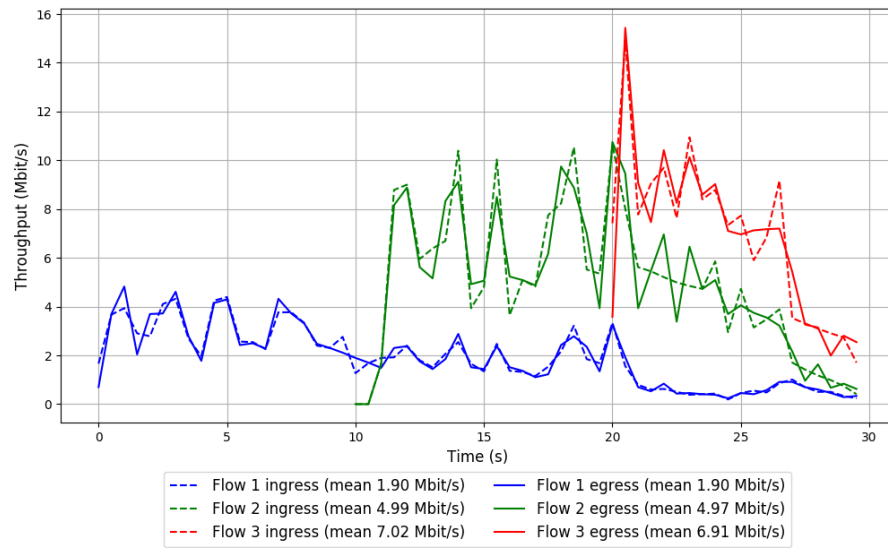


Run 10: Statistics of TCP Vegas

Start at: 2017-09-23 21:56:43
End at: 2017-09-23 21:57:13
Local clock offset: -3.318 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 51.908 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 50.297 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 52.136 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 52.731 ms
Loss rate: 1.57%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-23 18:42:33

End at: 2017-09-23 18:43:03

Local clock offset: -1.96 ms

Remote clock offset: 0.868 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 81.301 ms

Loss rate: 65.58%

-- Flow 1:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 57.719 ms

Loss rate: 41.74%

-- Flow 2:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 92.401 ms

Loss rate: 82.88%

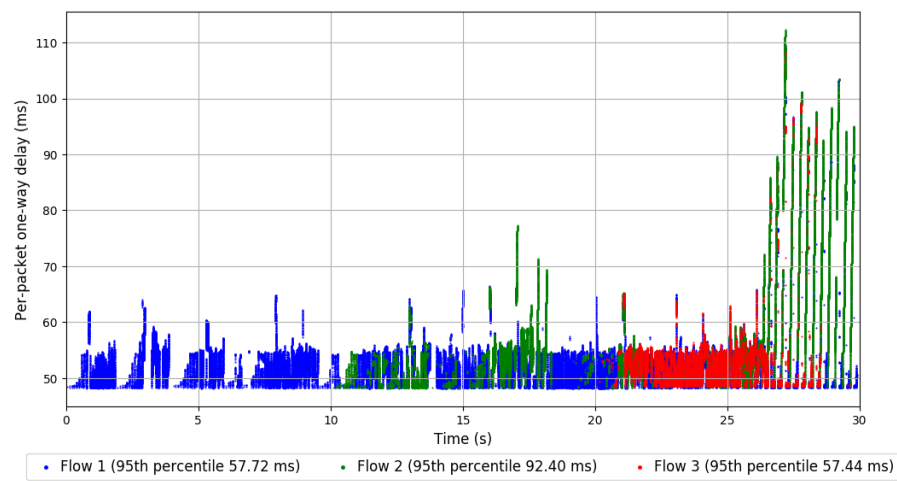
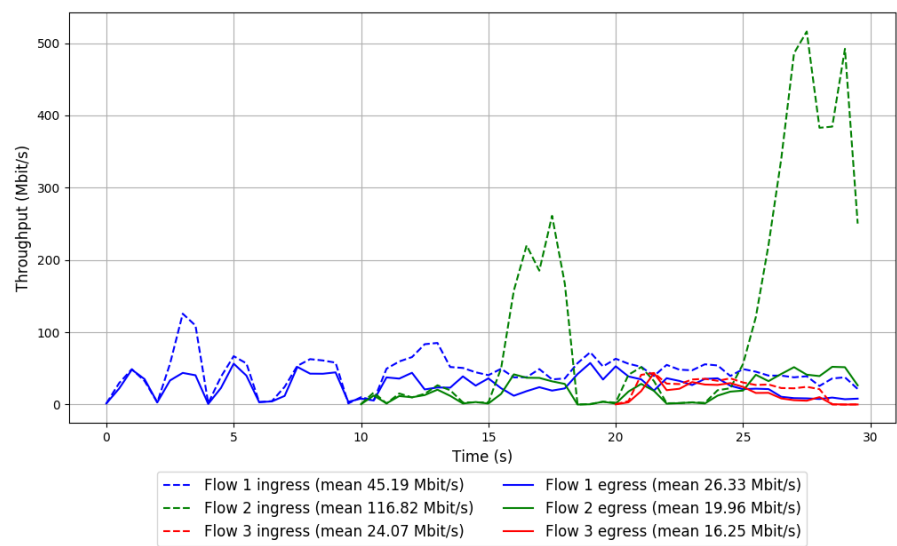
-- Flow 3:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 57.441 ms

Loss rate: 33.08%

Run 1: Report of Verus — Data Link

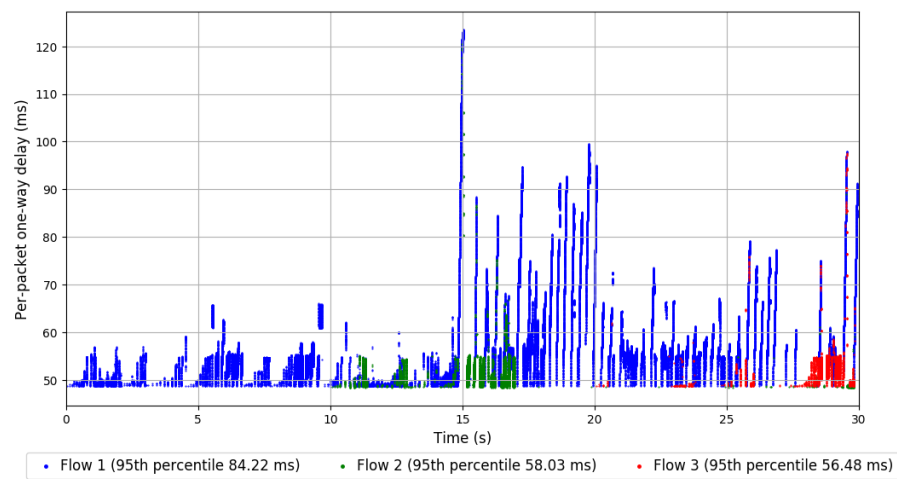
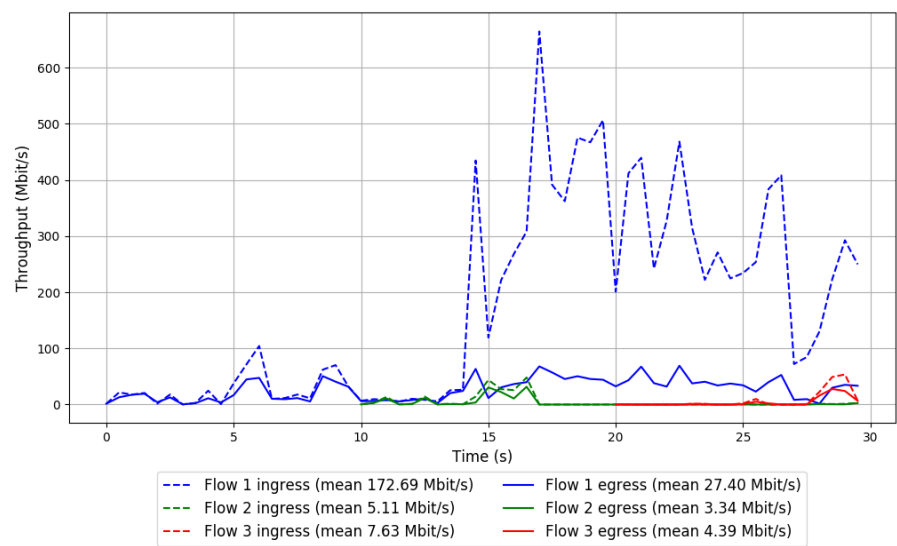


Run 2: Statistics of Verus

Start at: 2017-09-23 19:01:24
End at: 2017-09-23 19:01:54
Local clock offset: -1.987 ms
Remote clock offset: 1.357 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 83.109 ms
Loss rate: 82.59%
-- Flow 1:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 84.224 ms
Loss rate: 84.11%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 58.028 ms
Loss rate: 34.64%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 56.475 ms
Loss rate: 42.36%

Run 2: Report of Verus — Data Link

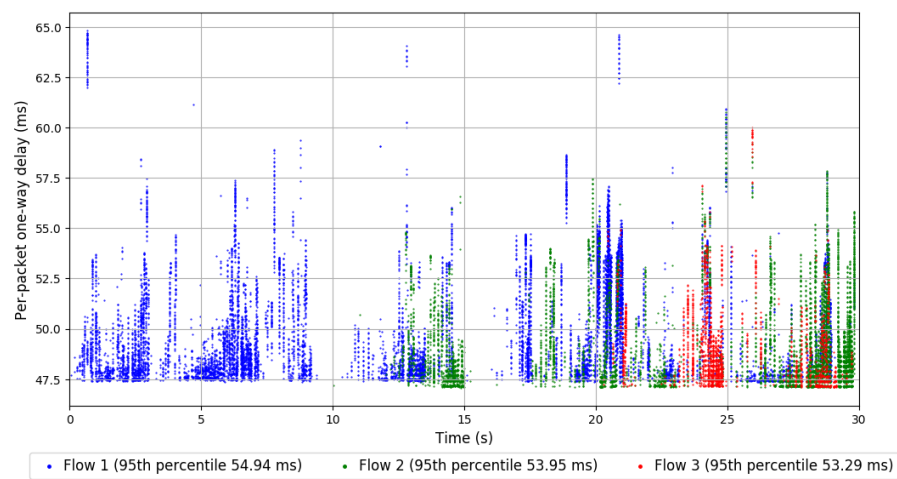
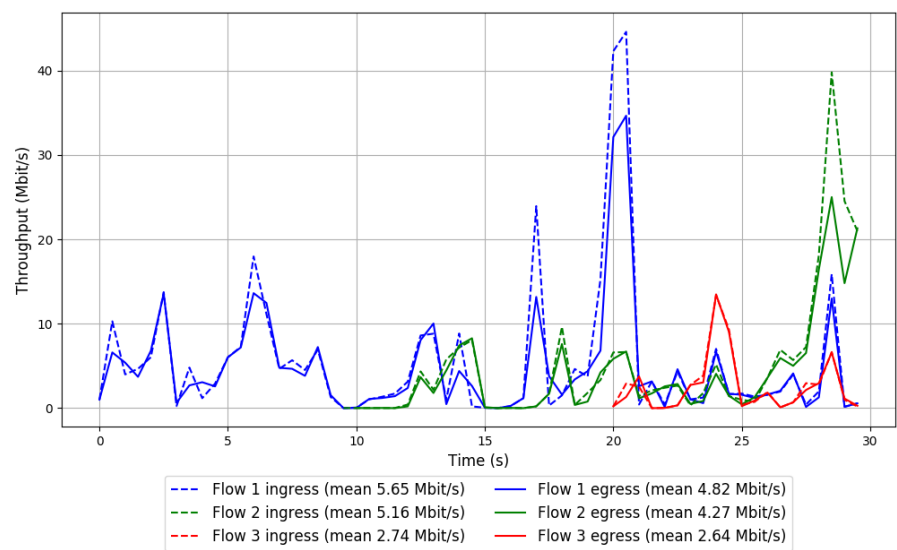


Run 3: Statistics of Verus

Start at: 2017-09-23 19:21:52
End at: 2017-09-23 19:22:22
Local clock offset: -0.505 ms
Remote clock offset: 1.5 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 54.488 ms
Loss rate: 14.54%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 54.936 ms
Loss rate: 14.62%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 53.952 ms
Loss rate: 17.25%
-- Flow 3:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 3.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-23 19:40:35

End at: 2017-09-23 19:41:05

Local clock offset: -1.32 ms

Remote clock offset: 1.362 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.15 Mbit/s

95th percentile per-packet one-way delay: 60.637 ms

Loss rate: 58.64%

-- Flow 1:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 61.345 ms

Loss rate: 60.28%

-- Flow 2:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 55.475 ms

Loss rate: 44.56%

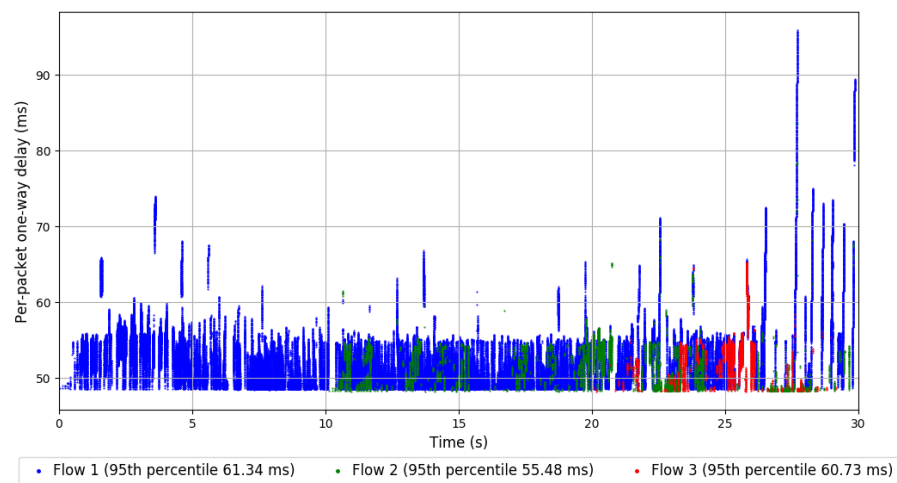
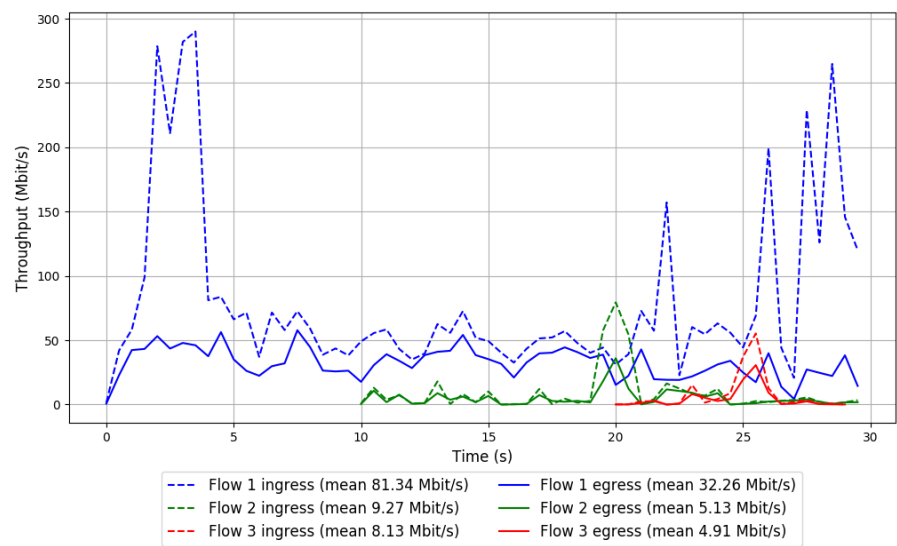
-- Flow 3:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 60.733 ms

Loss rate: 39.61%

Run 4: Report of Verus — Data Link

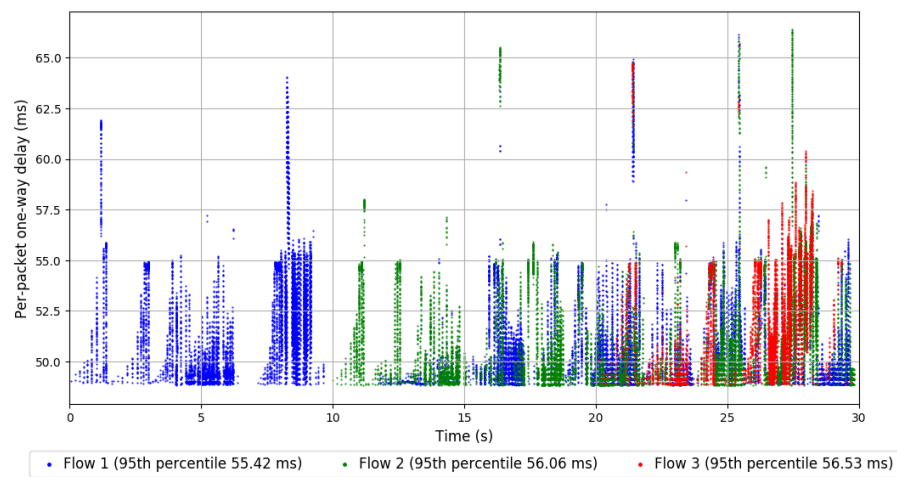
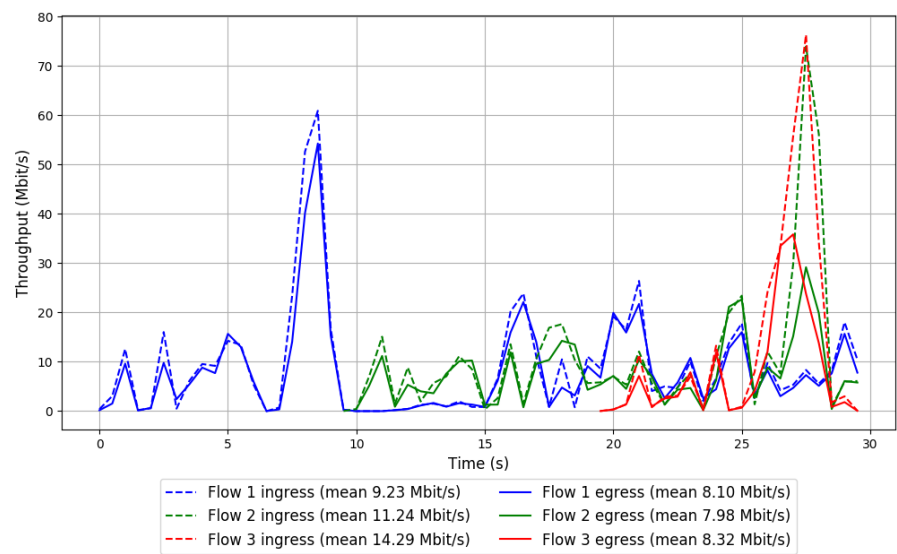


Run 5: Statistics of Verus

Start at: 2017-09-23 20:00:03
End at: 2017-09-23 20:00:33
Local clock offset: -1.647 ms
Remote clock offset: 1.203 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.09 Mbit/s
95th percentile per-packet one-way delay: 55.945 ms
Loss rate: 24.58%
-- Flow 1:
Average throughput: 8.10 Mbit/s
95th percentile per-packet one-way delay: 55.417 ms
Loss rate: 12.20%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 56.059 ms
Loss rate: 29.04%
-- Flow 3:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 56.533 ms
Loss rate: 41.77%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-23 20:24:19

End at: 2017-09-23 20:24:49

Local clock offset: -0.445 ms

Remote clock offset: 0.797 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.35 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 16.68%

-- Flow 1:

Average throughput: 4.94 Mbit/s

95th percentile per-packet one-way delay: 53.122 ms

Loss rate: 10.41%

-- Flow 2:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 21.08%

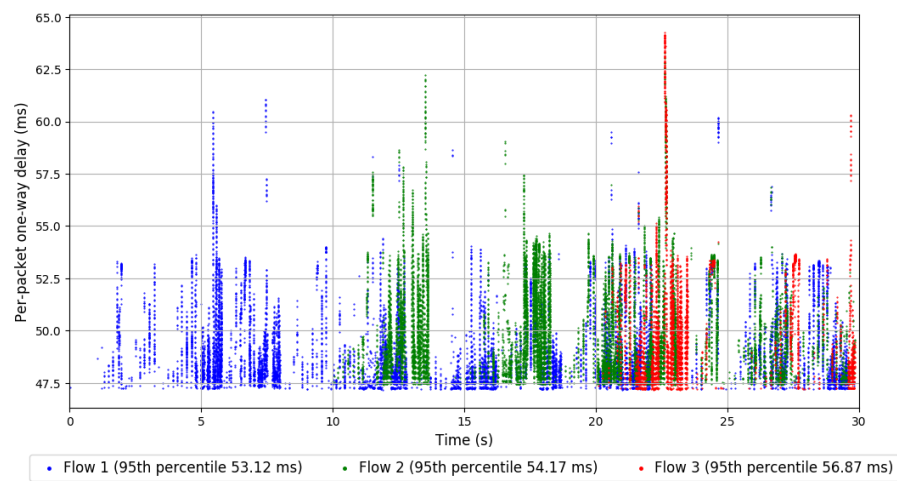
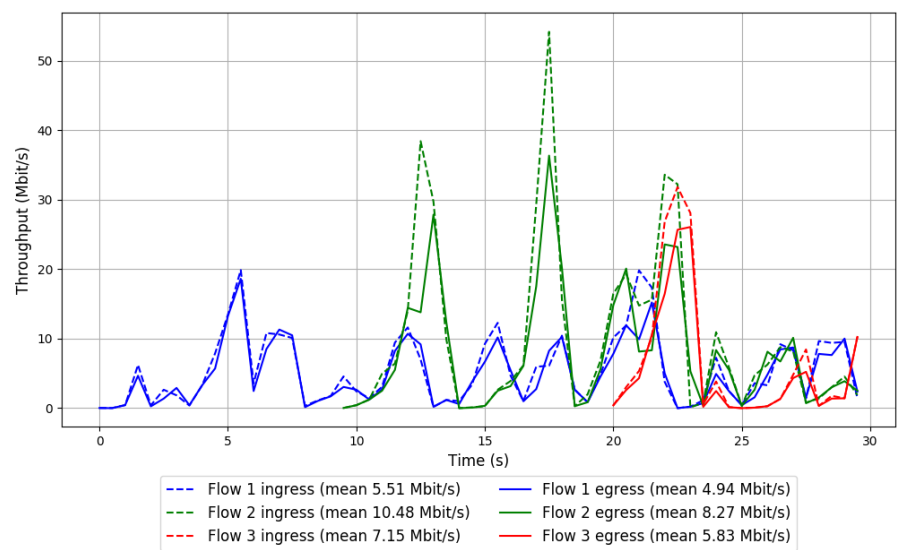
-- Flow 3:

Average throughput: 5.83 Mbit/s

95th percentile per-packet one-way delay: 56.868 ms

Loss rate: 18.34%

Run 6: Report of Verus — Data Link

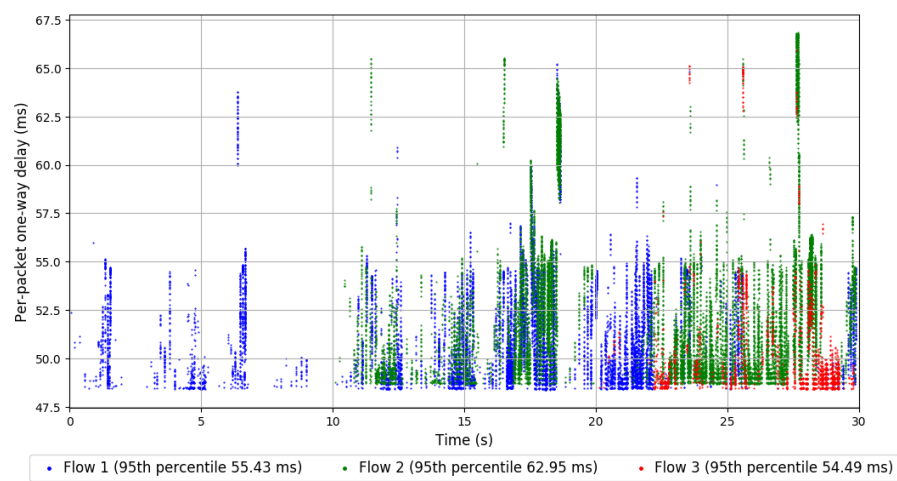
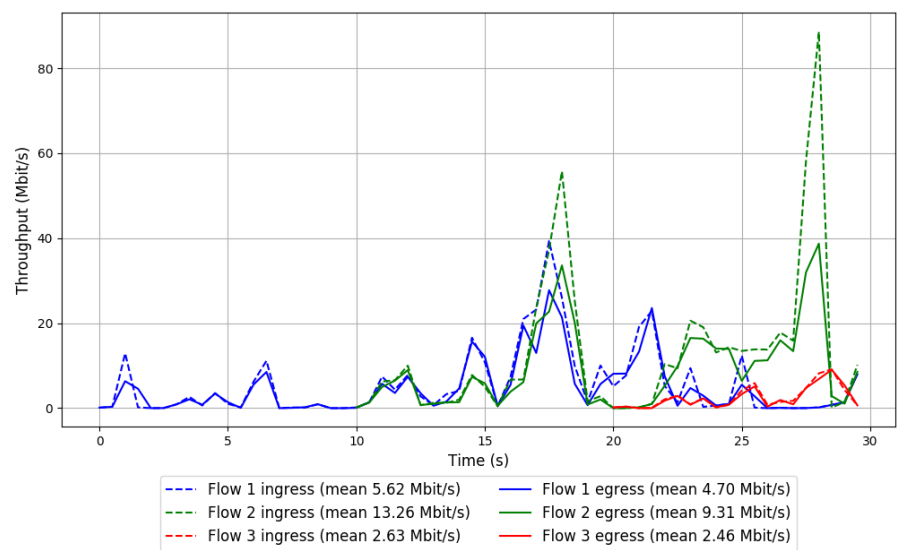


Run 7: Statistics of Verus

Start at: 2017-09-23 20:51:11
End at: 2017-09-23 20:51:41
Local clock offset: -2.26 ms
Remote clock offset: 0.344 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 61.048 ms
Loss rate: 23.52%
-- Flow 1:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 55.434 ms
Loss rate: 16.33%
-- Flow 2:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 62.951 ms
Loss rate: 29.78%
-- Flow 3:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 54.490 ms
Loss rate: 6.38%

Run 7: Report of Verus — Data Link

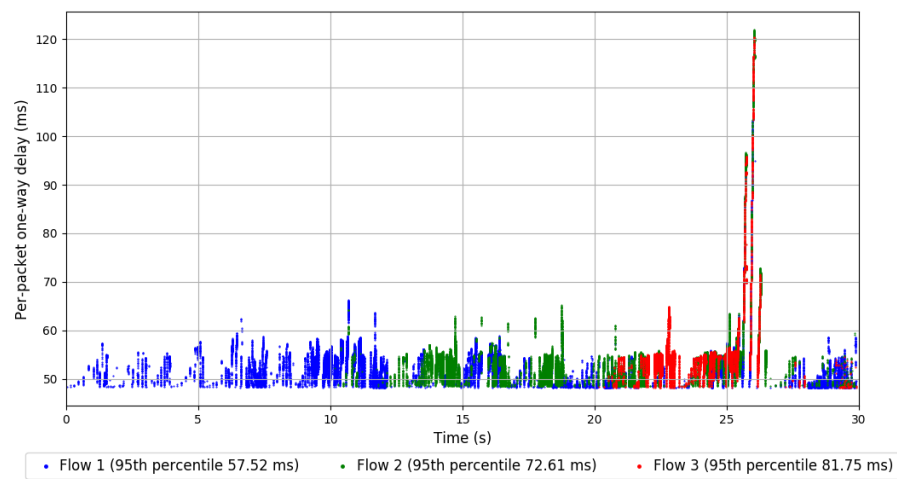
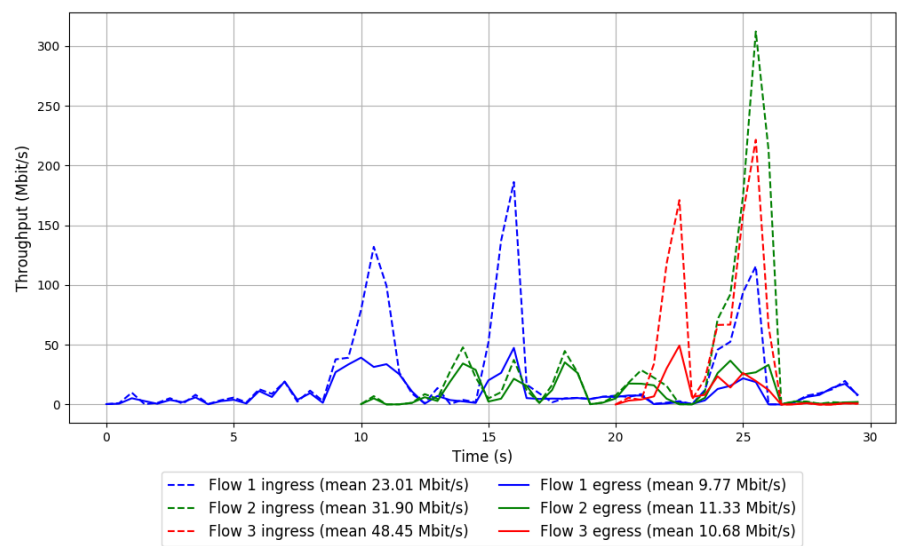


Run 8: Statistics of Verus

Start at: 2017-09-23 21:12:57
End at: 2017-09-23 21:13:27
Local clock offset: -2.573 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 65.115 ms
Loss rate: 65.36%
-- Flow 1:
Average throughput: 9.77 Mbit/s
95th percentile per-packet one-way delay: 57.521 ms
Loss rate: 57.53%
-- Flow 2:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 72.615 ms
Loss rate: 64.48%
-- Flow 3:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 81.745 ms
Loss rate: 77.95%

Run 8: Report of Verus — Data Link

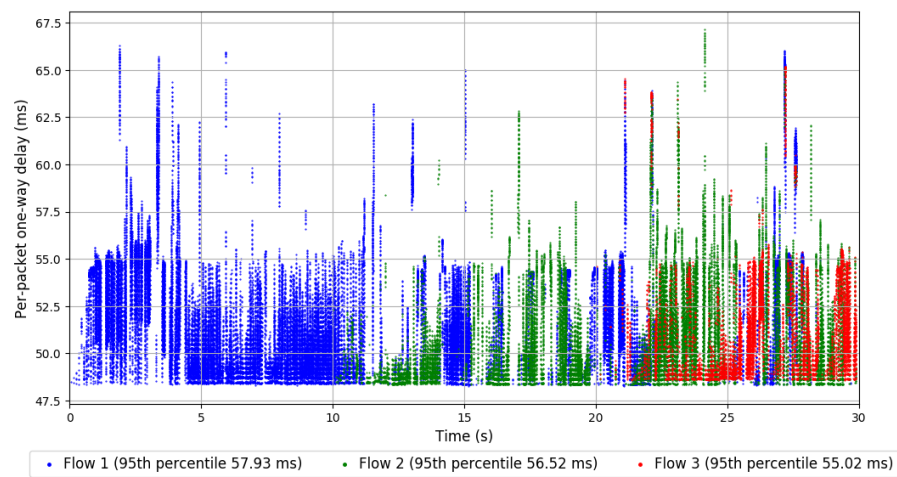
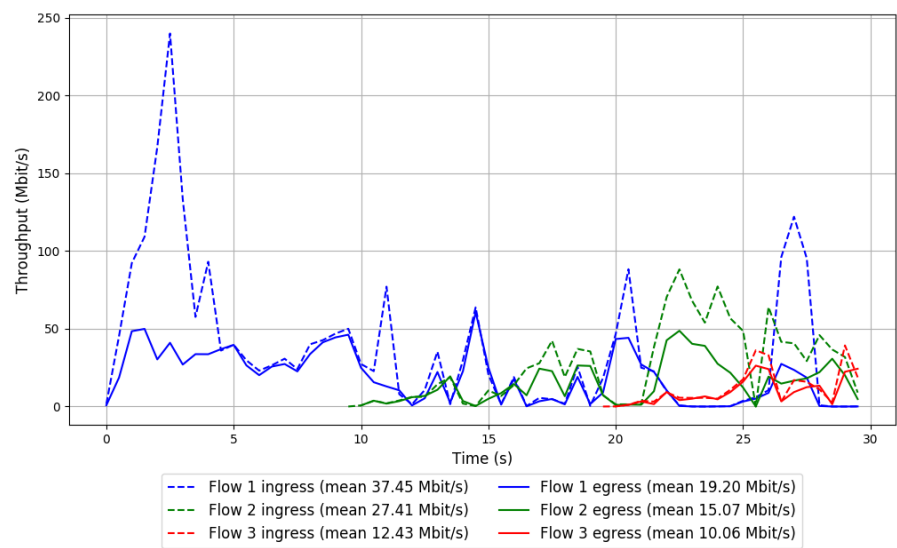


Run 9: Statistics of Verus

Start at: 2017-09-23 21:32:52
End at: 2017-09-23 21:33:22
Local clock offset: -3.057 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 57.118 ms
Loss rate: 45.55%
-- Flow 1:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 57.929 ms
Loss rate: 48.72%
-- Flow 2:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 56.524 ms
Loss rate: 45.02%
-- Flow 3:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 55.022 ms
Loss rate: 19.06%

Run 9: Report of Verus — Data Link

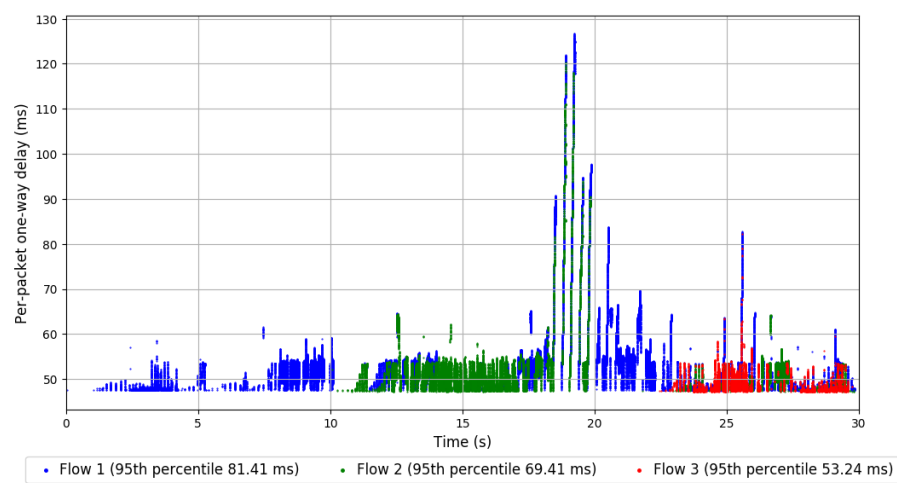
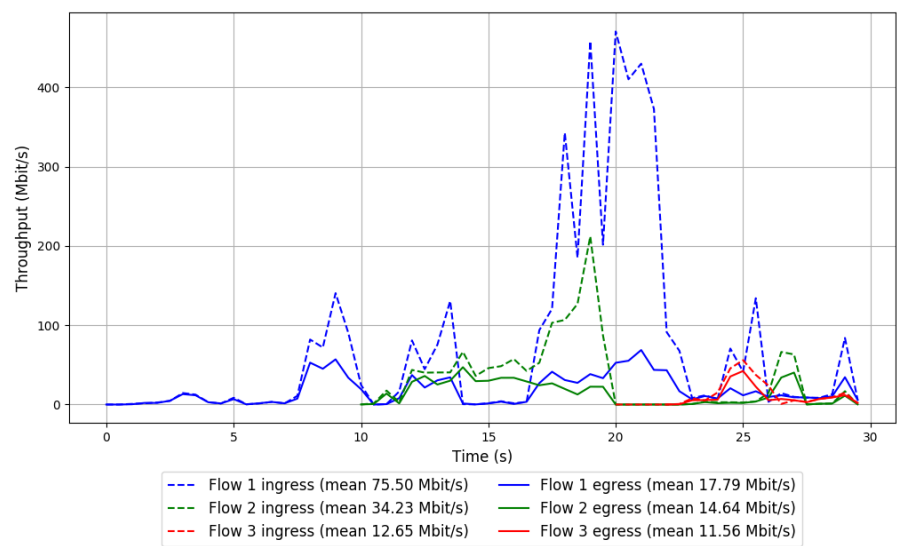


Run 10: Statistics of Verus

Start at: 2017-09-23 21:54:42
End at: 2017-09-23 21:55:12
Local clock offset: -1.995 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2017-09-23 22:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.31 Mbit/s
95th percentile per-packet one-way delay: 75.070 ms
Loss rate: 70.31%
-- Flow 1:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 81.414 ms
Loss rate: 76.44%
-- Flow 2:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 69.411 ms
Loss rate: 57.25%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 53.237 ms
Loss rate: 27.84%

Run 10: Report of Verus — Data Link

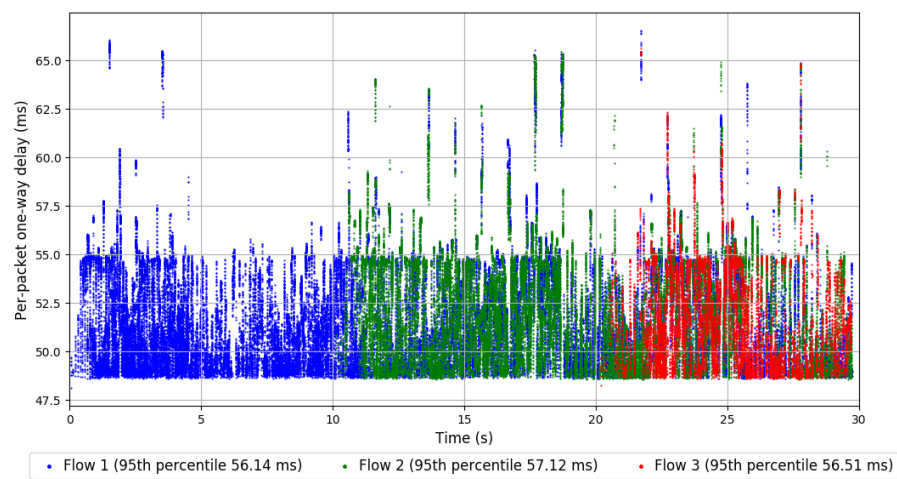
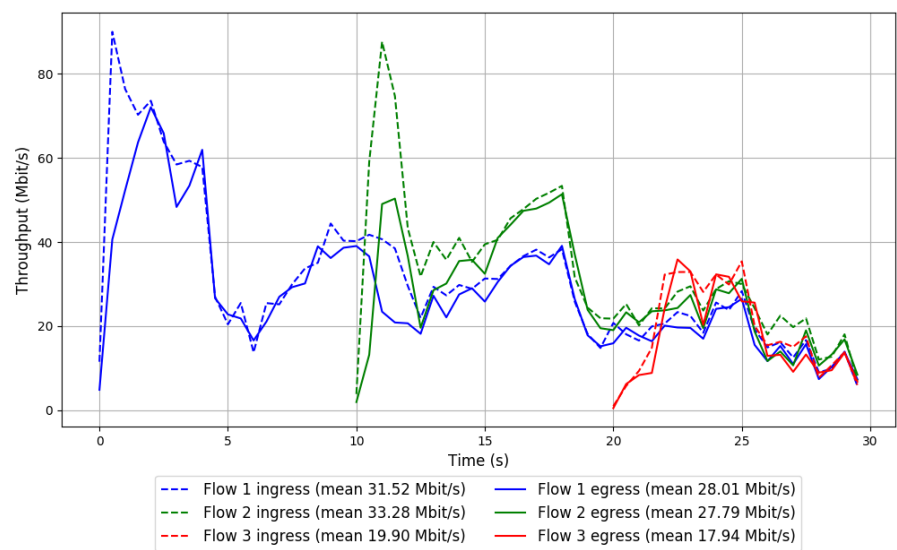


```
Run 1: Statistics of Indigo

Start at: 2017-09-23 18:58:06
End at: 2017-09-23 18:58:36
Local clock offset: -1.98 ms
Remote clock offset: 1.253 ms

# Below is generated by plot.py at 2017-09-23 22:22:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.06 Mbit/s
95th percentile per-packet one-way delay: 56.623 ms
Loss rate: 12.94%
-- Flow 1:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 56.144 ms
Loss rate: 11.11%
-- Flow 2:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 57.116 ms
Loss rate: 16.47%
-- Flow 3:
Average throughput: 17.94 Mbit/s
95th percentile per-packet one-way delay: 56.509 ms
Loss rate: 9.83%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-23 19:18:32

End at: 2017-09-23 19:19:02

Local clock offset: -1.596 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2017-09-23 22:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 55.908 ms

Loss rate: 31.01%

-- Flow 1:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 55.965 ms

Loss rate: 21.79%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 55.109 ms

Loss rate: 15.43%

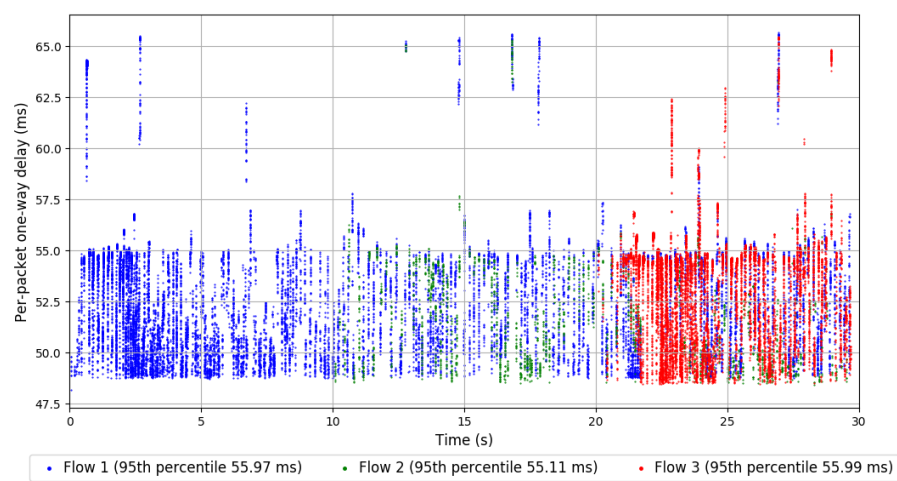
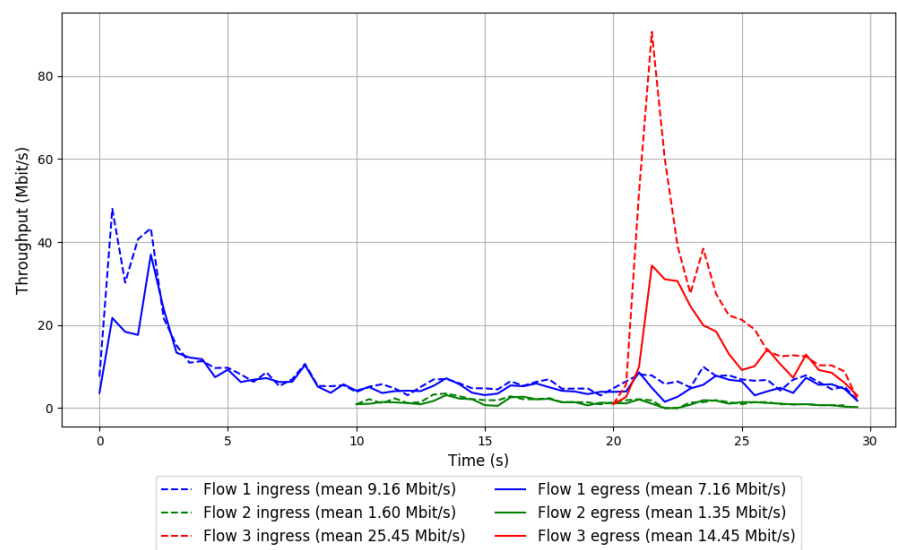
-- Flow 3:

Average throughput: 14.45 Mbit/s

95th percentile per-packet one-way delay: 55.989 ms

Loss rate: 43.24%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-23 19:37:57

End at: 2017-09-23 19:38:27

Local clock offset: -0.4 ms

Remote clock offset: 1.49 ms

Below is generated by plot.py at 2017-09-23 22:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 60.809 ms

Loss rate: 23.57%

-- Flow 1:

Average throughput: 36.62 Mbit/s

95th percentile per-packet one-way delay: 59.049 ms

Loss rate: 16.58%

-- Flow 2:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 61.869 ms

Loss rate: 23.06%

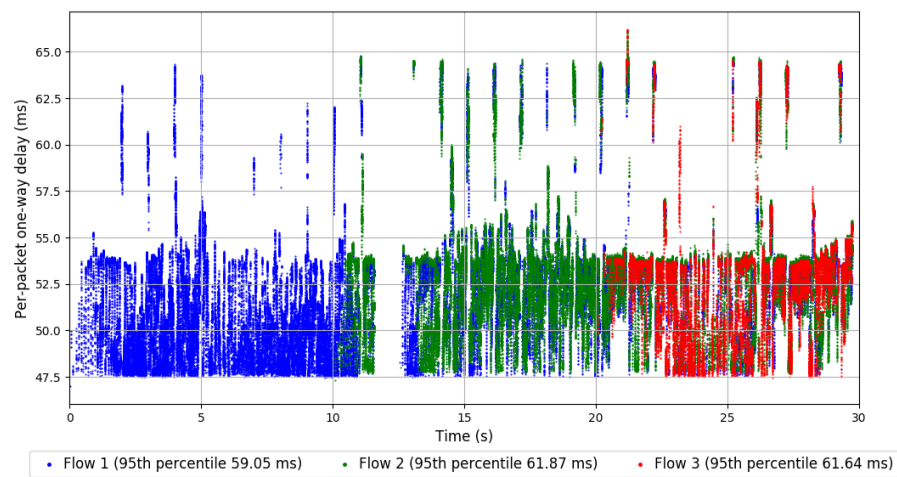
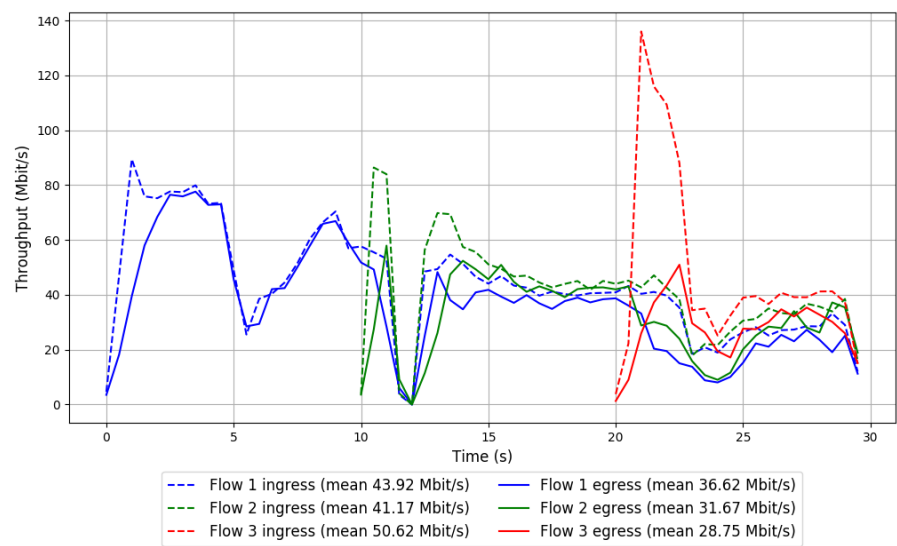
-- Flow 3:

Average throughput: 28.75 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 43.18%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-23 19:56:42

End at: 2017-09-23 19:57:12

Local clock offset: -1.495 ms

Remote clock offset: 1.179 ms

Below is generated by plot.py at 2017-09-23 22:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.50 Mbit/s

95th percentile per-packet one-way delay: 55.262 ms

Loss rate: 12.90%

-- Flow 1:

Average throughput: 8.26 Mbit/s

95th percentile per-packet one-way delay: 54.753 ms

Loss rate: 4.98%

-- Flow 2:

Average throughput: 20.25 Mbit/s

95th percentile per-packet one-way delay: 55.779 ms

Loss rate: 16.28%

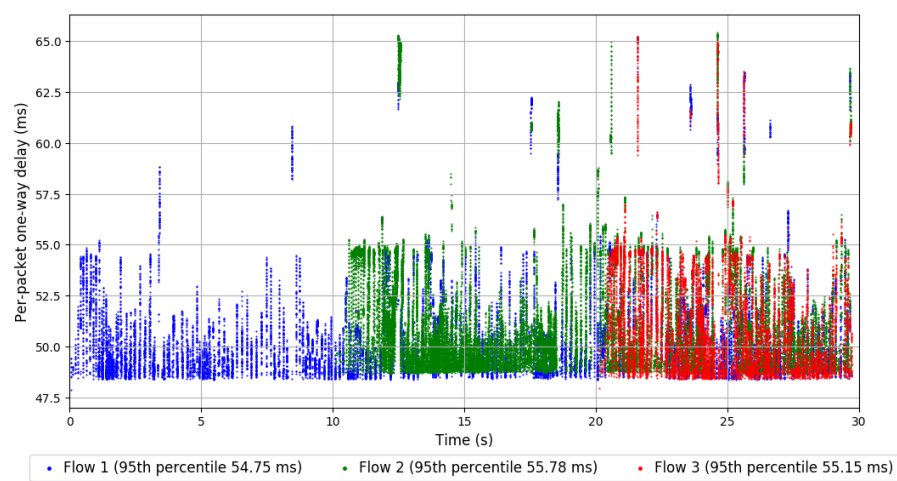
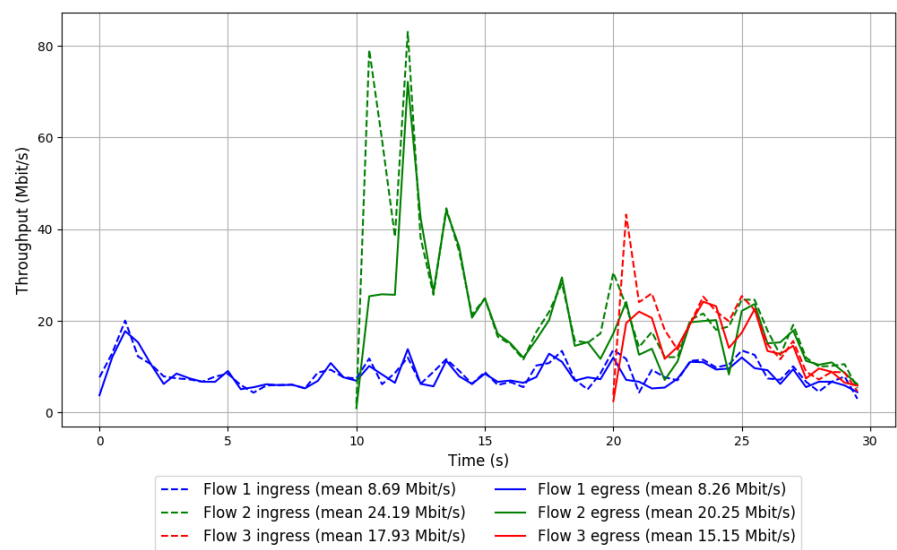
-- Flow 3:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 55.147 ms

Loss rate: 15.48%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-23 20:20:09

End at: 2017-09-23 20:20:39

Local clock offset: -1.56 ms

Remote clock offset: 0.801 ms

Below is generated by plot.py at 2017-09-23 22:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 54.846 ms

Loss rate: 17.09%

-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 54.933 ms

Loss rate: 9.90%

-- Flow 2:

Average throughput: 9.13 Mbit/s

95th percentile per-packet one-way delay: 54.571 ms

Loss rate: 14.15%

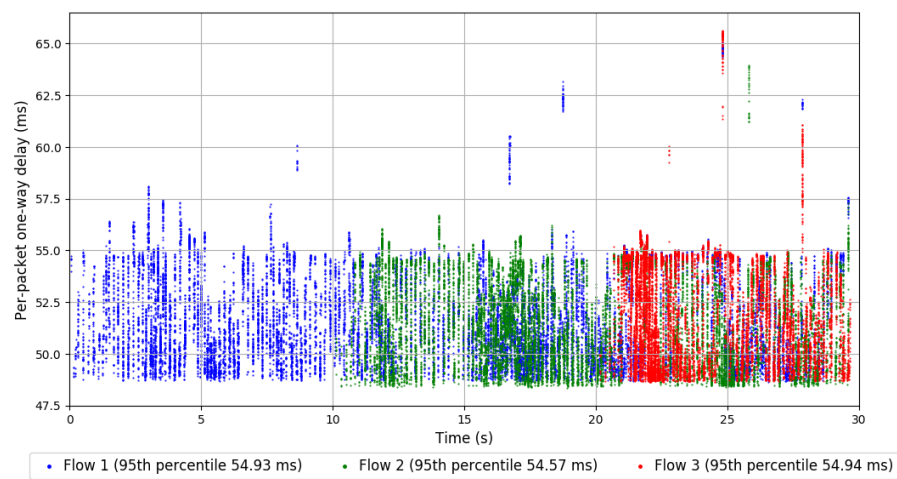
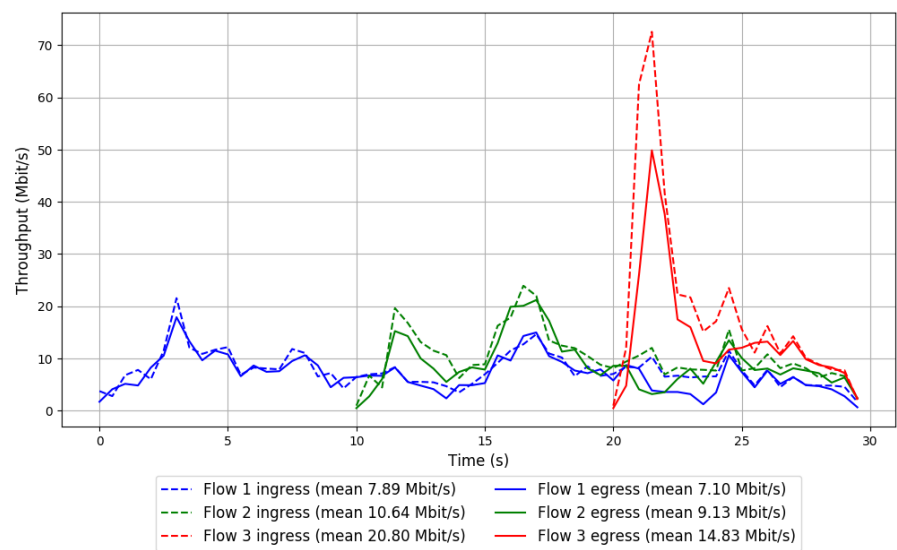
-- Flow 3:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 54.936 ms

Loss rate: 28.67%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-23 20:47:08

End at: 2017-09-23 20:47:38

Local clock offset: -2.138 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2017-09-23 22:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 54.822 ms

Loss rate: 9.81%

-- Flow 1:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 54.752 ms

Loss rate: 8.26%

-- Flow 2:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 54.735 ms

Loss rate: 10.68%

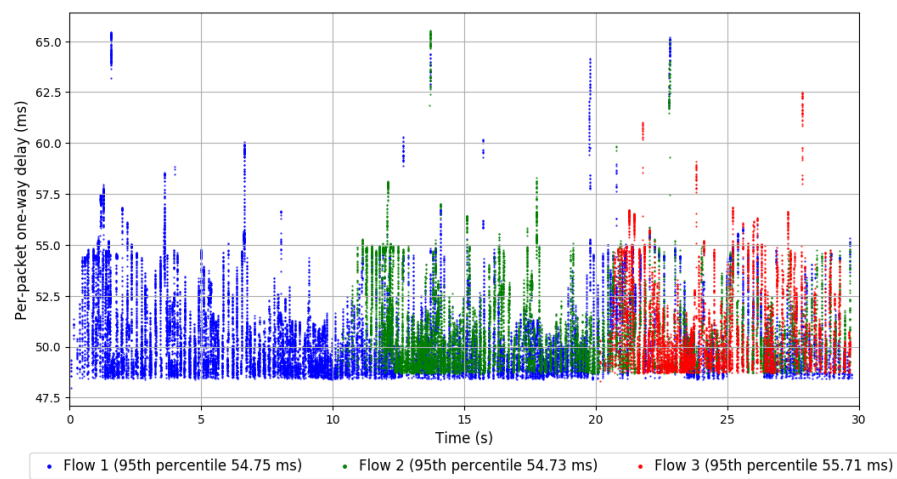
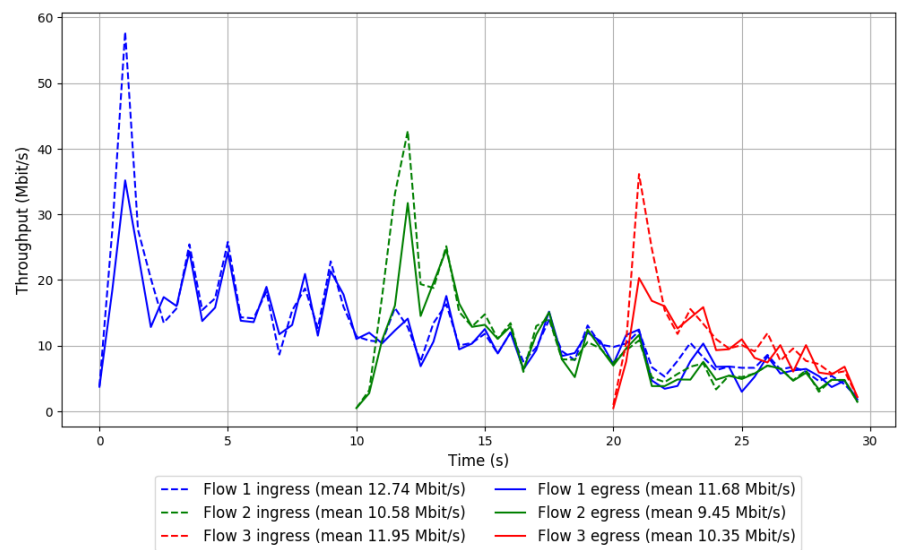
-- Flow 3:

Average throughput: 10.35 Mbit/s

95th percentile per-packet one-way delay: 55.708 ms

Loss rate: 13.40%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-23 21:09:58

End at: 2017-09-23 21:10:28

Local clock offset: -2.531 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2017-09-23 22:23:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 54.525 ms

Loss rate: 3.41%

-- Flow 1:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 54.369 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 9.12 Mbit/s

95th percentile per-packet one-way delay: 54.793 ms

Loss rate: 3.73%

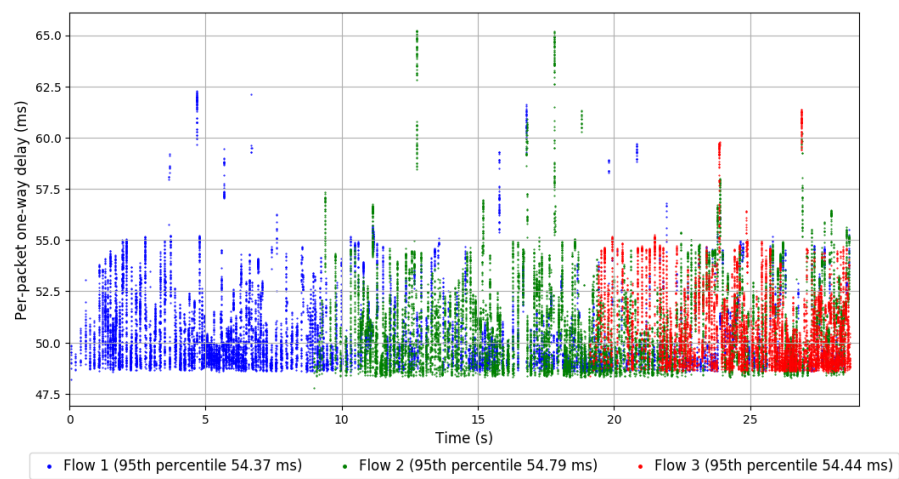
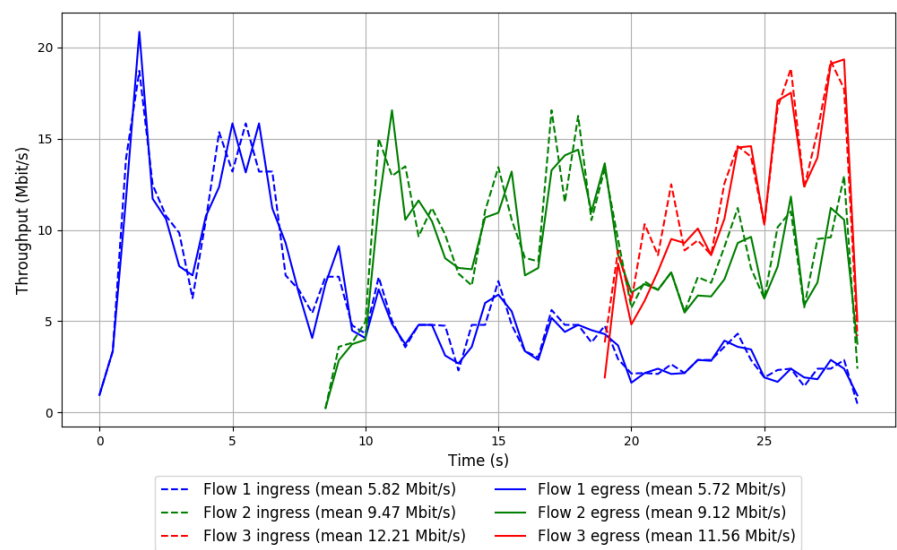
-- Flow 3:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 54.436 ms

Loss rate: 5.35%

Run 7: Report of Indigo — Data Link

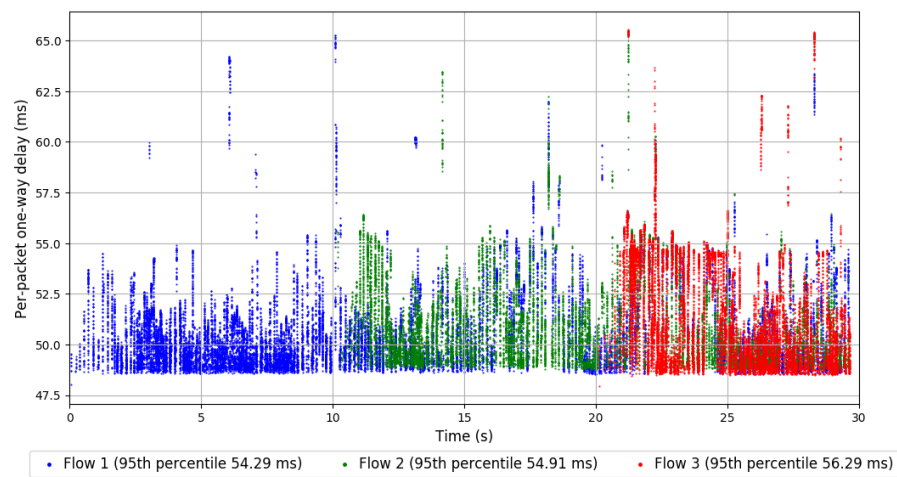
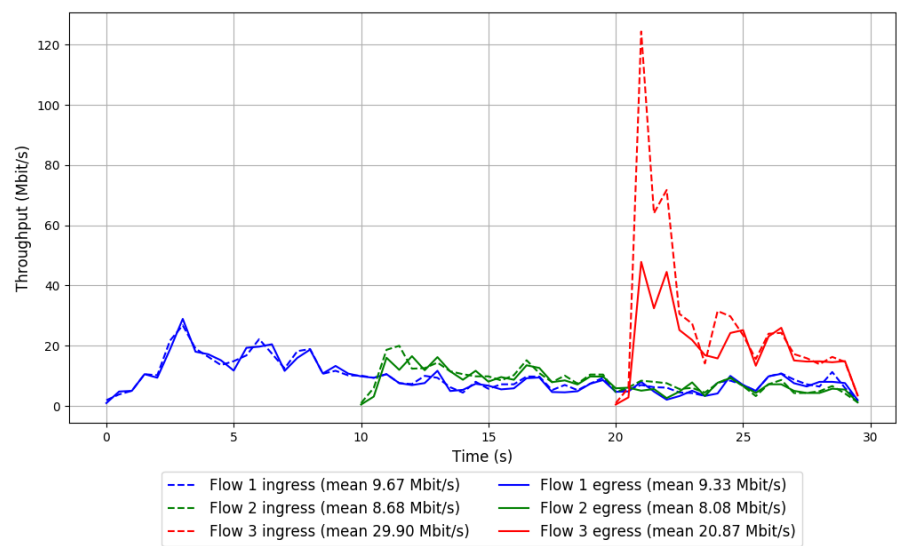


Run 8: Statistics of Indigo

Start at: 2017-09-23 21:29:47
End at: 2017-09-23 21:30:17
Local clock offset: -3.179 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2017-09-23 22:23:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 55.105 ms
Loss rate: 14.55%
-- Flow 1:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 54.287 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 54.909 ms
Loss rate: 6.96%
-- Flow 3:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 56.291 ms
Loss rate: 30.18%

Run 8: Report of Indigo — Data Link

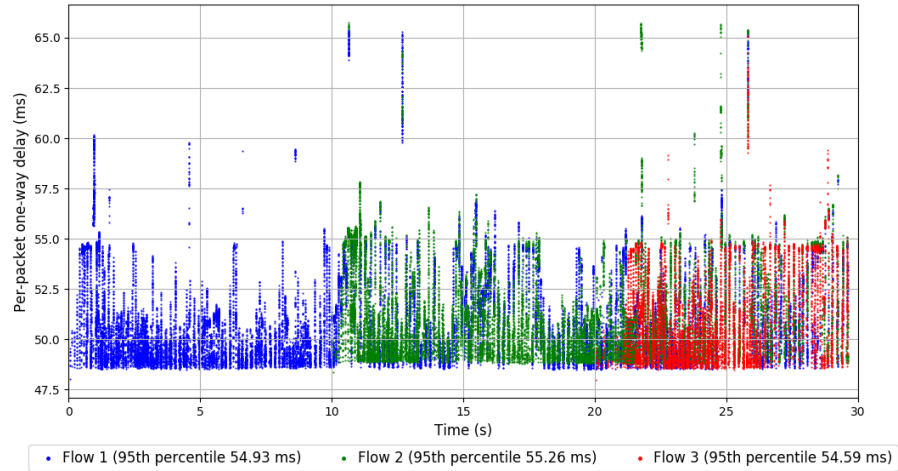
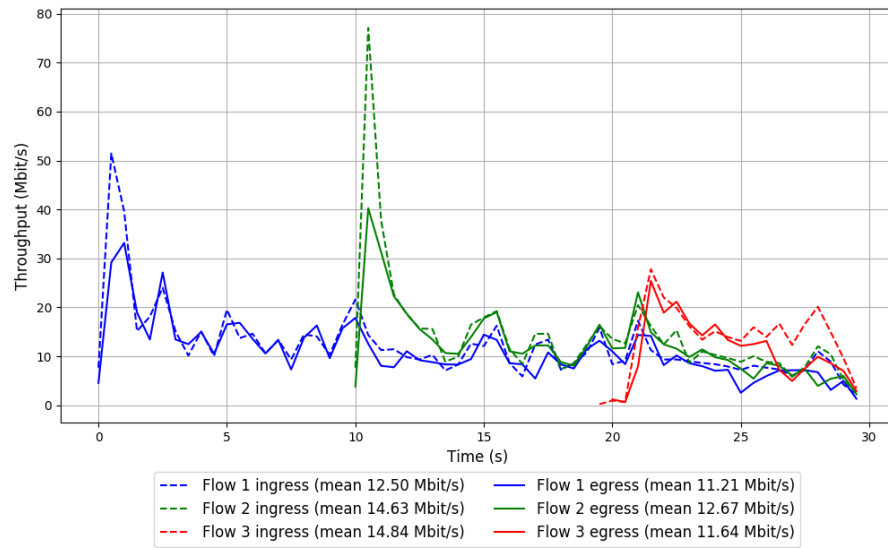


Run 9: Statistics of Indigo

Start at: 2017-09-23 21:50:49
End at: 2017-09-23 21:51:19
Local clock offset: -3.24 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2017-09-23 22:23:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 55.048 ms
Loss rate: 13.42%
-- Flow 1:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 54.934 ms
Loss rate: 10.34%
-- Flow 2:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 55.257 ms
Loss rate: 13.43%
-- Flow 3:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 54.587 ms
Loss rate: 21.47%

Run 9: Report of Indigo — Data Link

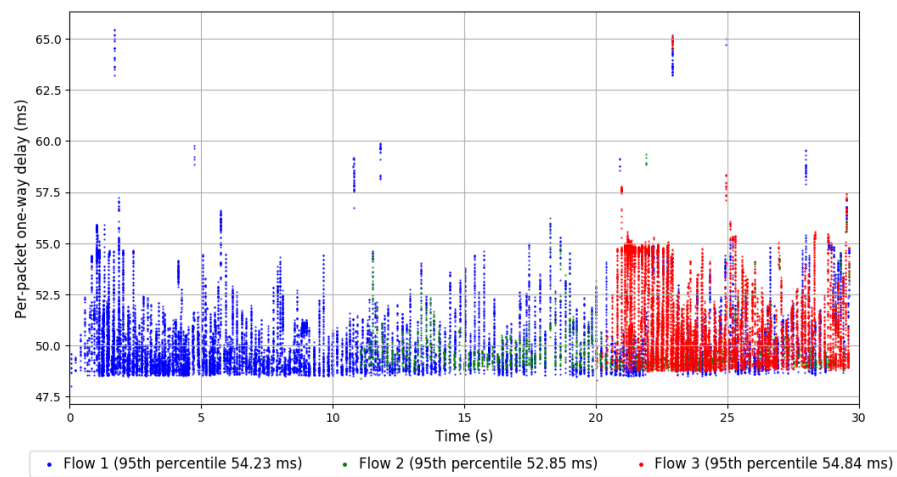
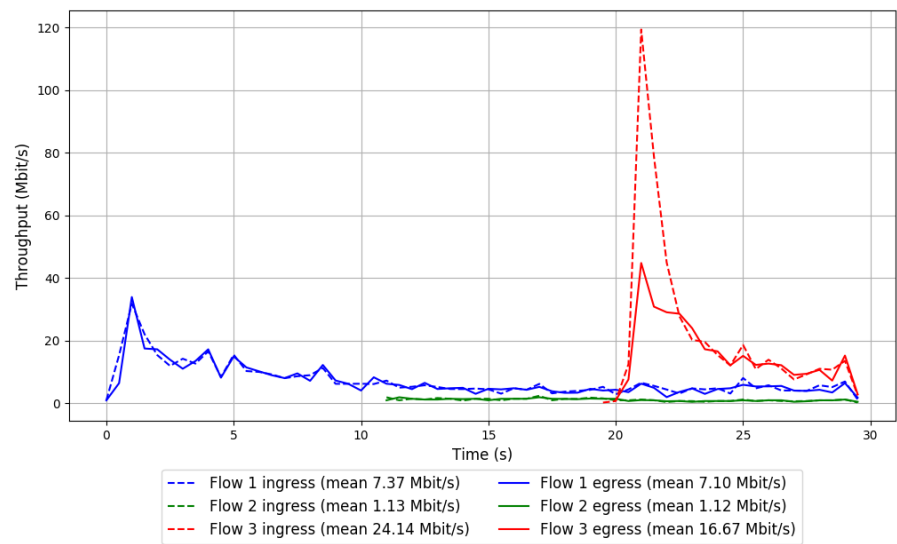


Run 10: Statistics of Indigo

Start at: 2017-09-23 22:13:32
End at: 2017-09-23 22:14:02
Local clock offset: -3.128 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2017-09-23 22:23:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 16.89%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 54.228 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 52.851 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 54.844 ms
Loss rate: 30.88%

Run 10: Report of Indigo — Data Link

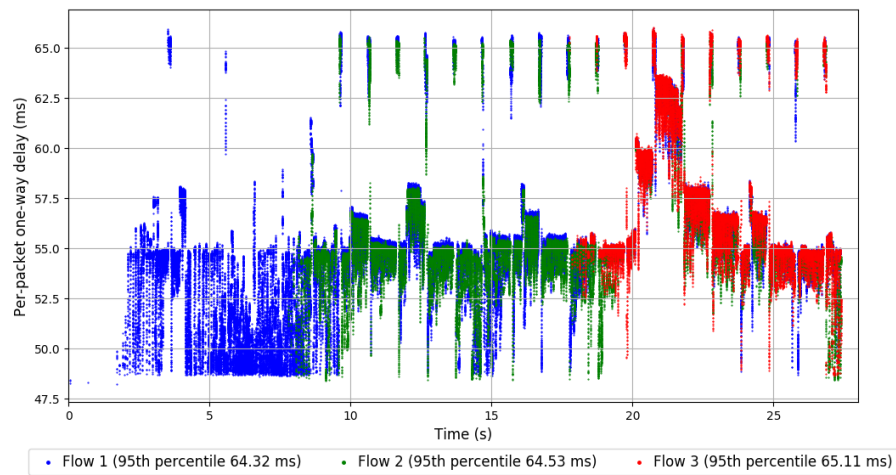
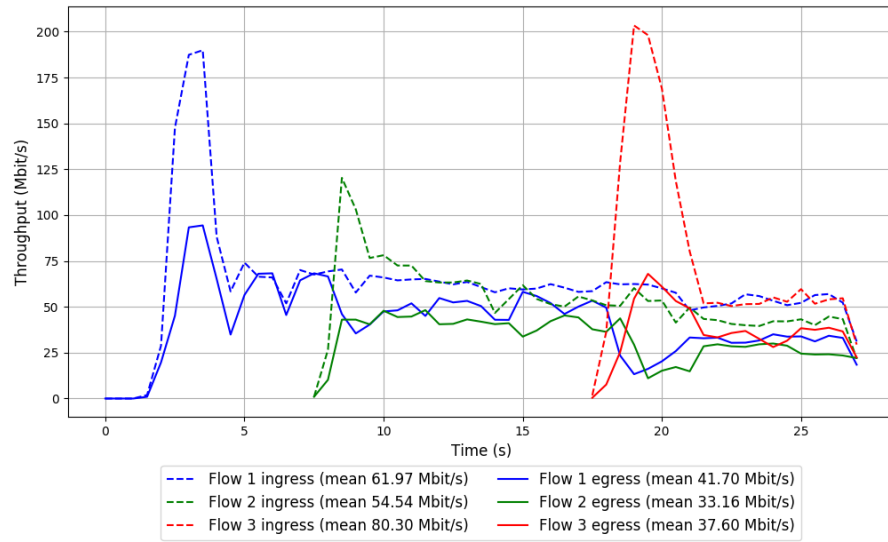


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-23 18:47:39
End at: 2017-09-23 18:48:09
Local clock offset: -2.017 ms
Remote clock offset: 1.224 ms

# Below is generated by plot.py at 2017-09-23 22:24:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.67 Mbit/s
95th percentile per-packet one-way delay: 64.633 ms
Loss rate: 39.17%
-- Flow 1:
Average throughput: 41.70 Mbit/s
95th percentile per-packet one-way delay: 64.322 ms
Loss rate: 32.69%
-- Flow 2:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 39.21%
-- Flow 3:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 65.108 ms
Loss rate: 53.24%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

Start at: 2017-09-23 19:06:35

End at: 2017-09-23 19:07:05

Local clock offset: -1.774 ms

Remote clock offset: 1.412 ms

Below is generated by plot.py at 2017-09-23 22:24:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.66 Mbit/s

95th percentile per-packet one-way delay: 55.942 ms

Loss rate: 29.16%

-- Flow 1:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 55.466 ms

Loss rate: 14.59%

-- Flow 2:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 55.520 ms

Loss rate: 29.80%

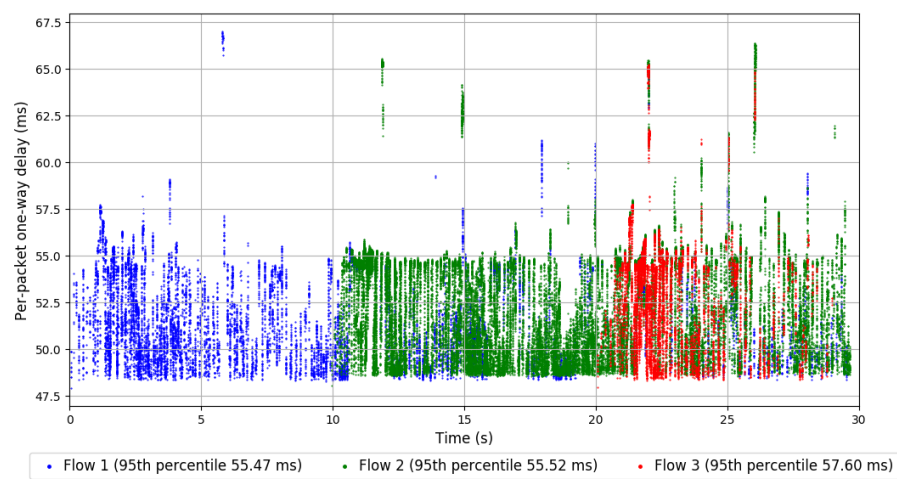
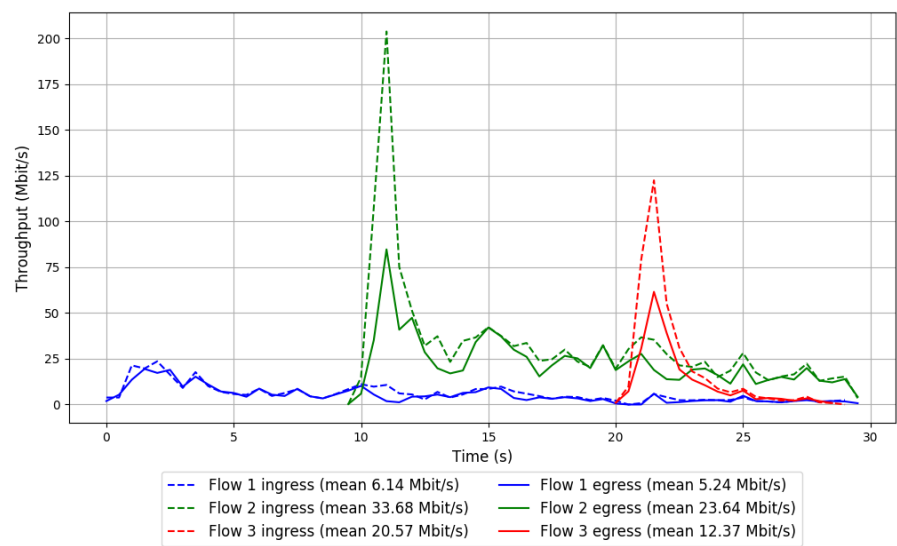
-- Flow 3:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 57.597 ms

Loss rate: 41.03%

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-23 19:27:21

End at: 2017-09-23 19:27:51

Local clock offset: -1.62 ms

Remote clock offset: 1.587 ms

Below is generated by plot.py at 2017-09-23 22:24:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 54.716 ms

Loss rate: 7.89%

-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 54.455 ms

Loss rate: 4.14%

-- Flow 2:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 54.793 ms

Loss rate: 9.81%

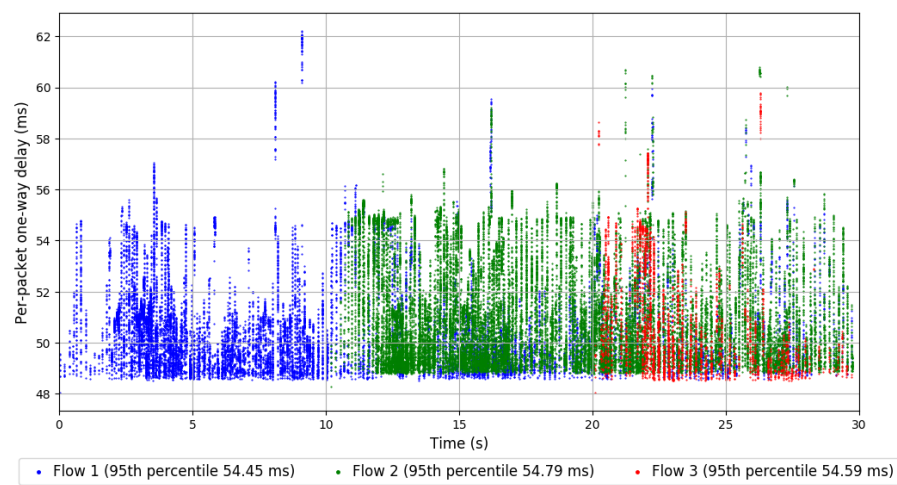
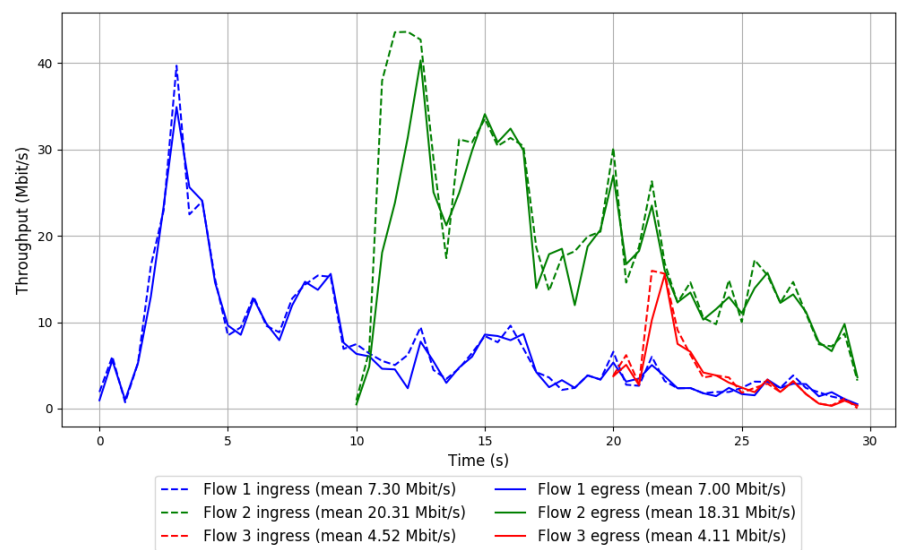
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 54.593 ms

Loss rate: 9.09%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-23 19:45:36

End at: 2017-09-23 19:46:06

Local clock offset: -1.58 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2017-09-23 22:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 61.603 ms

Loss rate: 26.91%

-- Flow 1:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 60.864 ms

Loss rate: 19.70%

-- Flow 2:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 61.323 ms

Loss rate: 27.23%

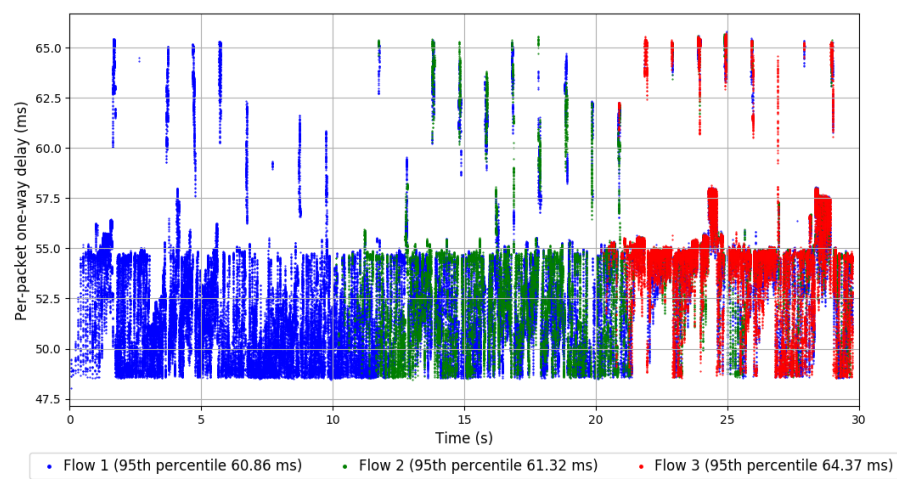
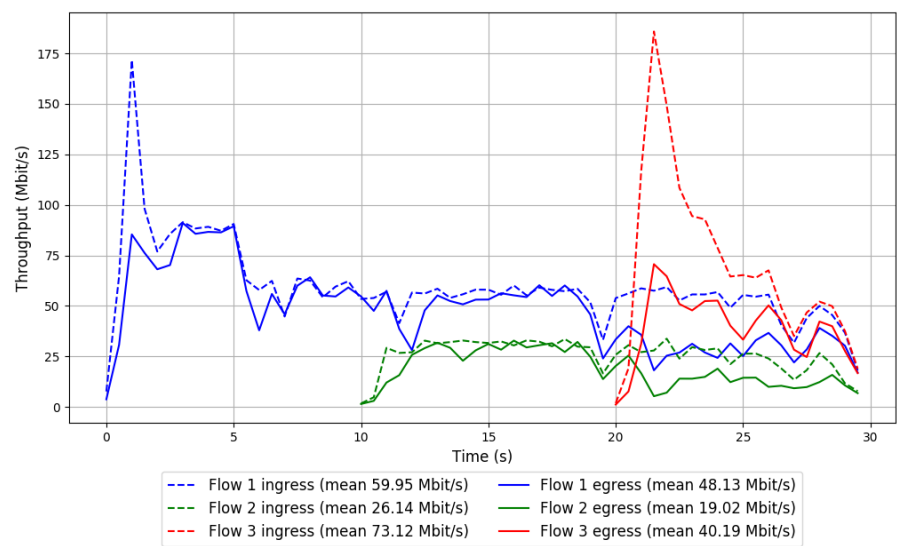
-- Flow 3:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 64.367 ms

Loss rate: 45.04%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-23 20:05:41

End at: 2017-09-23 20:06:11

Local clock offset: -1.545 ms

Remote clock offset: 0.97 ms

Below is generated by plot.py at 2017-09-23 22:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 55.039 ms

Loss rate: 22.11%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 55.909 ms

Loss rate: 28.03%

-- Flow 2:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 54.223 ms

Loss rate: 12.33%

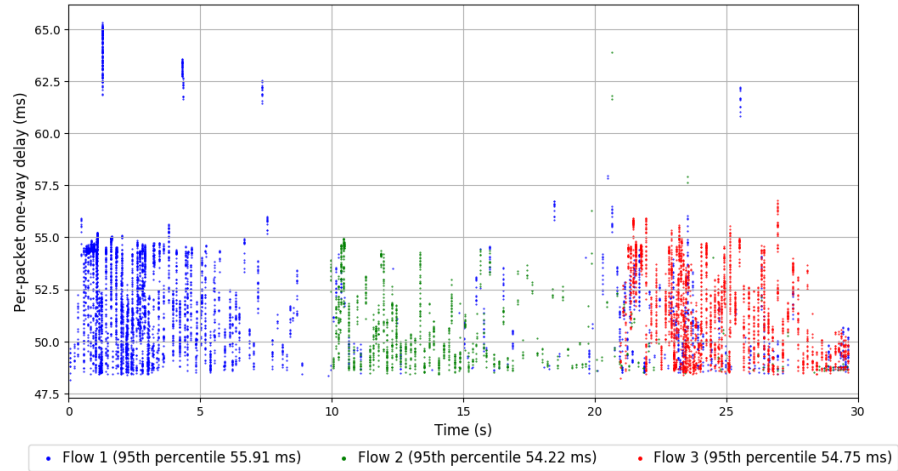
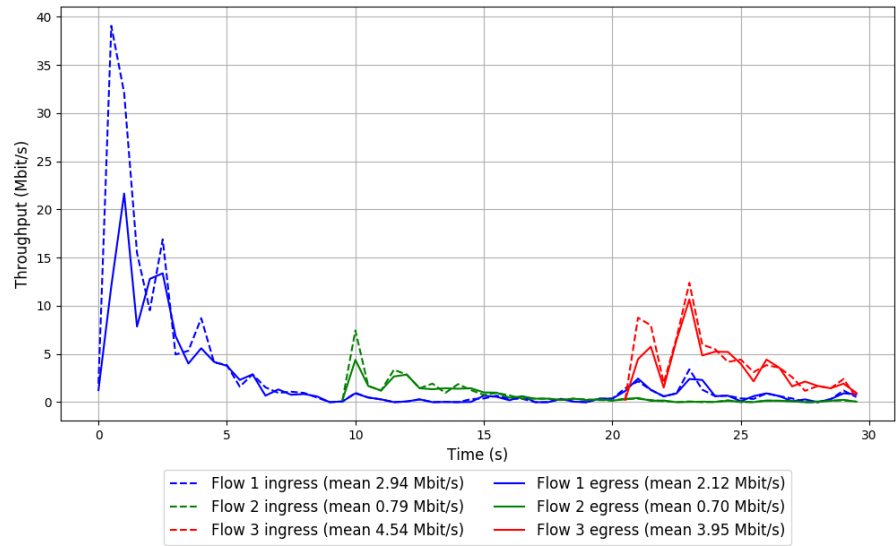
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 12.89%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-23 20:30:22

End at: 2017-09-23 20:30:52

Local clock offset: -0.696 ms

Remote clock offset: 0.626 ms

Below is generated by plot.py at 2017-09-23 22:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 28.02%

-- Flow 1:

Average throughput: 5.39 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 33.34%

-- Flow 2:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 12.99%

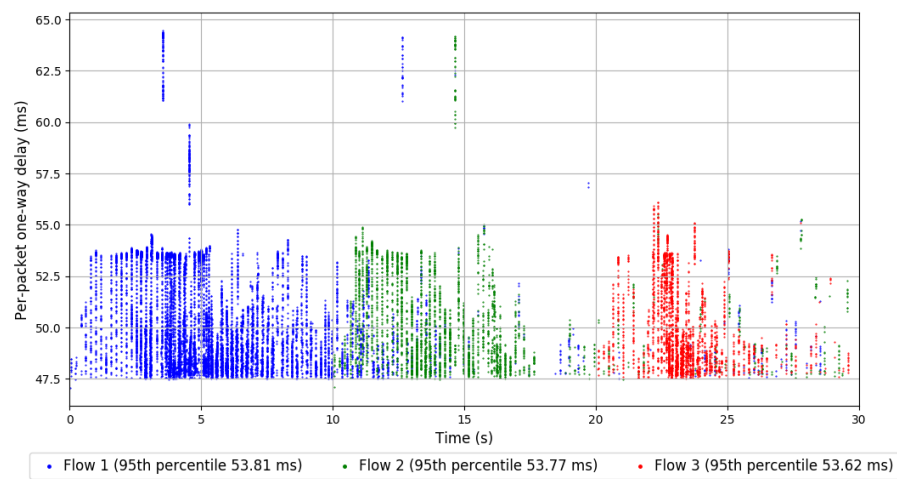
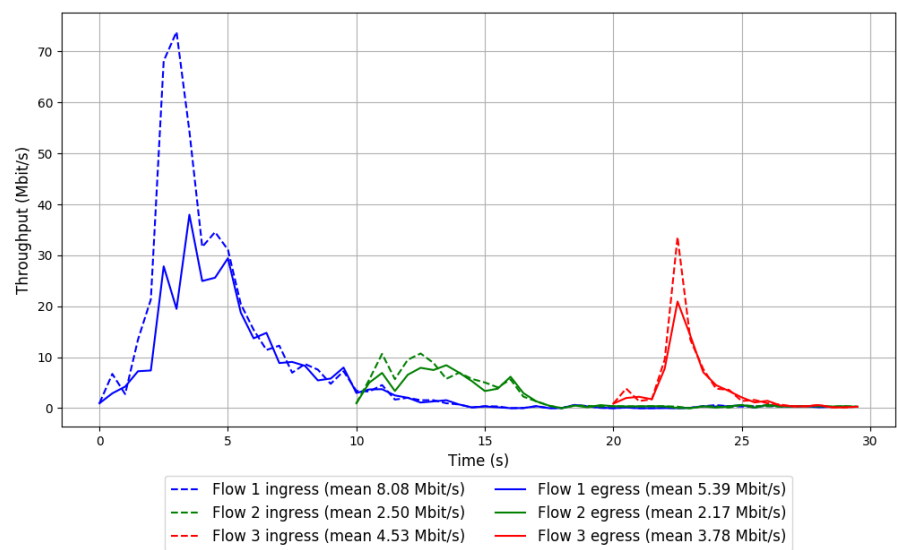
-- Flow 3:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 16.56%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-23 20:57:07

End at: 2017-09-23 20:57:37

Local clock offset: -2.302 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2017-09-23 22:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 54.818 ms

Loss rate: 15.89%

-- Flow 1:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 55.475 ms

Loss rate: 21.94%

-- Flow 2:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 54.104 ms

Loss rate: 3.85%

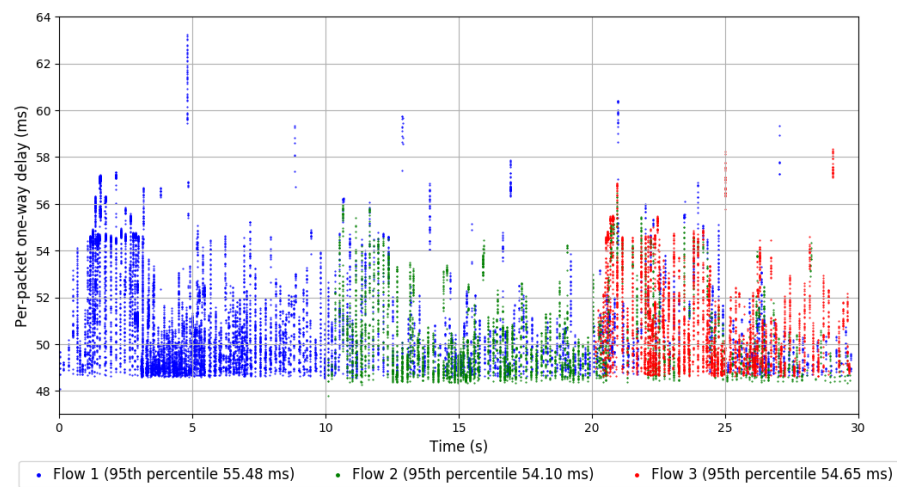
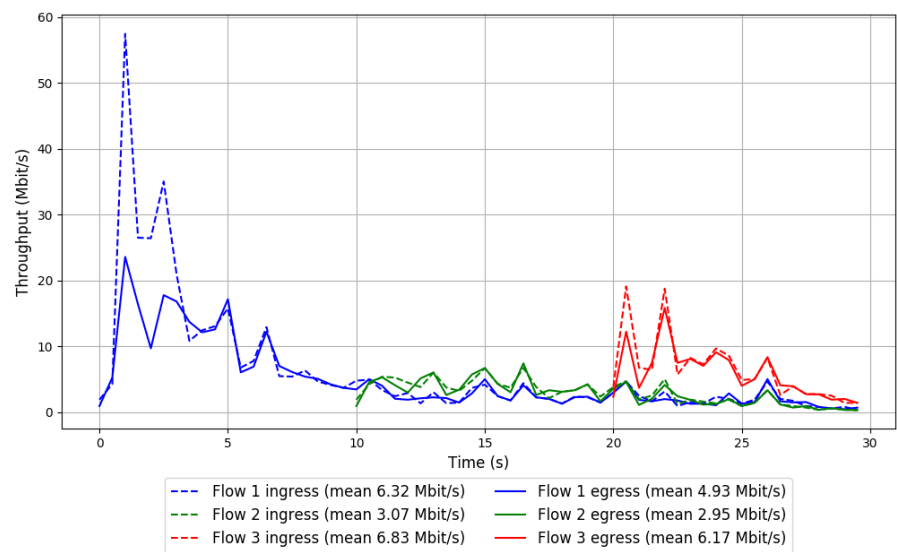
-- Flow 3:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 54.650 ms

Loss rate: 9.62%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-23 21:18:04

End at: 2017-09-23 21:18:34

Local clock offset: -1.526 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2017-09-23 22:24:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 54.500 ms

Loss rate: 5.36%

-- Flow 1:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 54.236 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 19.65 Mbit/s

95th percentile per-packet one-way delay: 55.050 ms

Loss rate: 5.40%

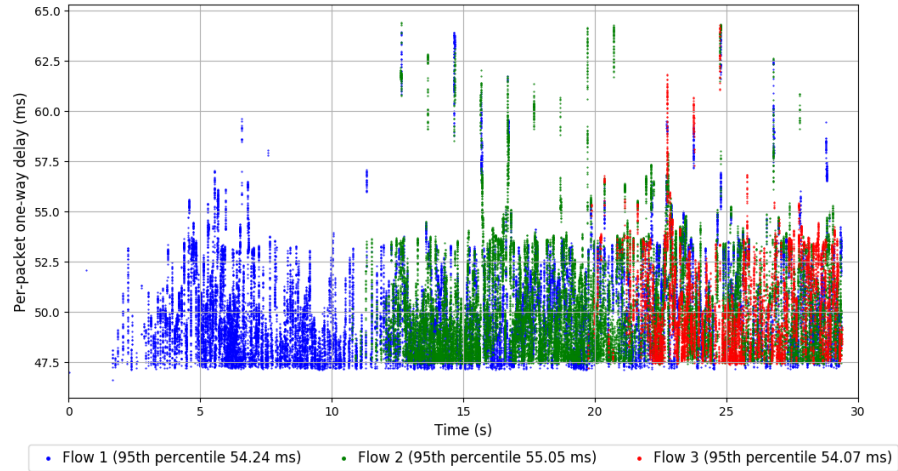
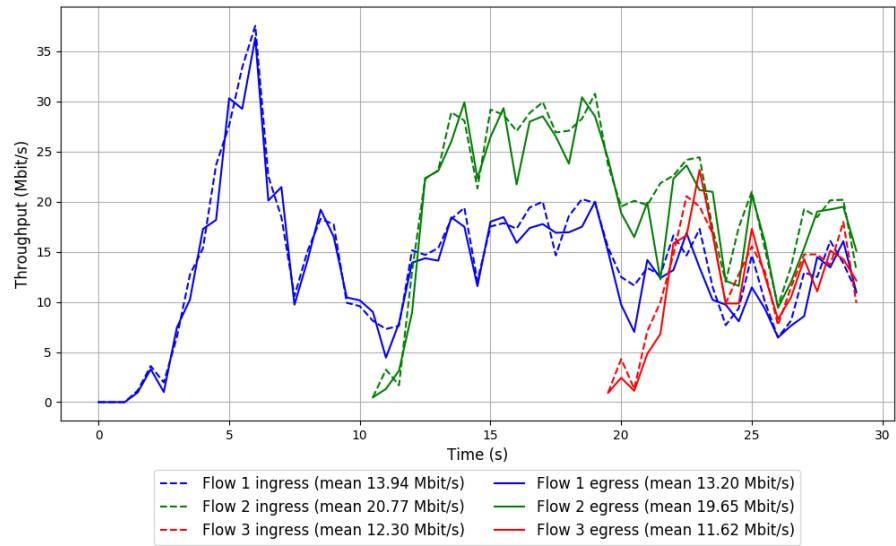
-- Flow 3:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 54.073 ms

Loss rate: 5.50%

Run 8: Report of Indigo-calib — Data Link

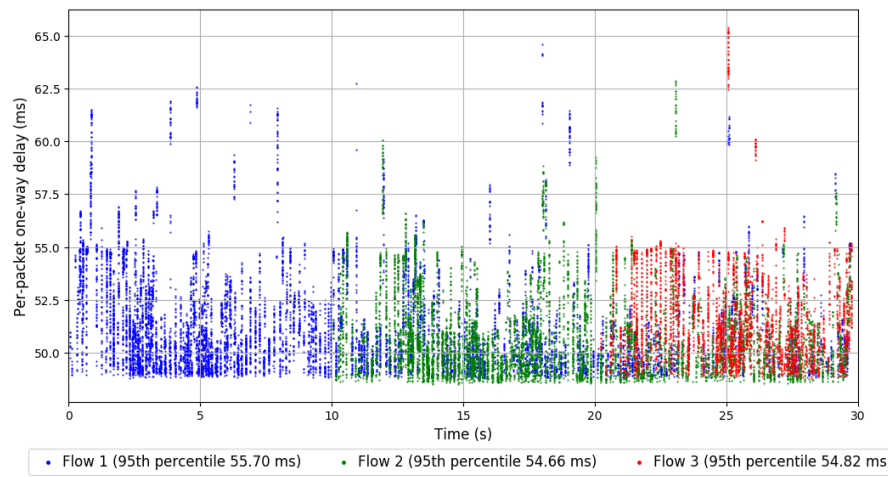
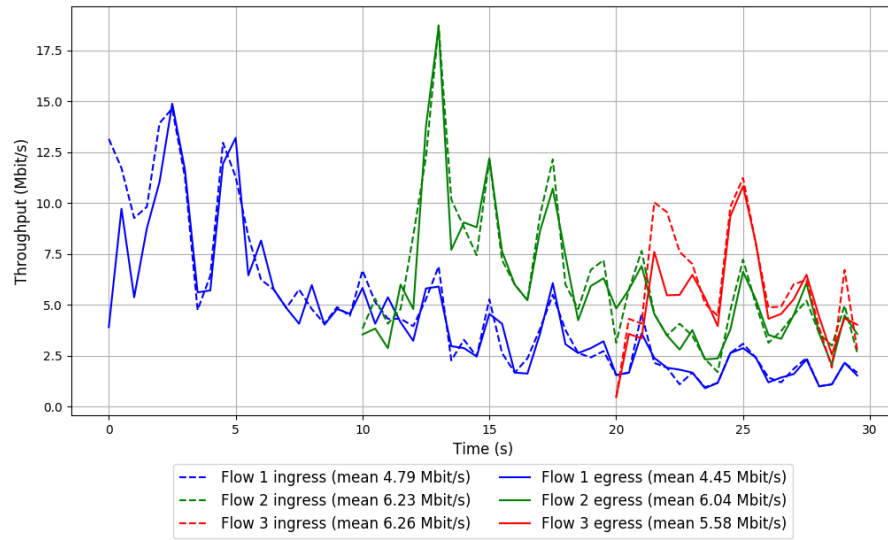


Run 9: Statistics of Indigo-calib

Start at: 2017-09-23 21:38:17
End at: 2017-09-23 21:38:47
Local clock offset: -3.207 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2017-09-23 22:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 55.000 ms
Loss rate: 6.29%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 55.695 ms
Loss rate: 7.08%
-- Flow 2:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 54.665 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 5.58 Mbit/s
95th percentile per-packet one-way delay: 54.822 ms
Loss rate: 10.91%

Run 9: Report of Indigo-calib — Data Link

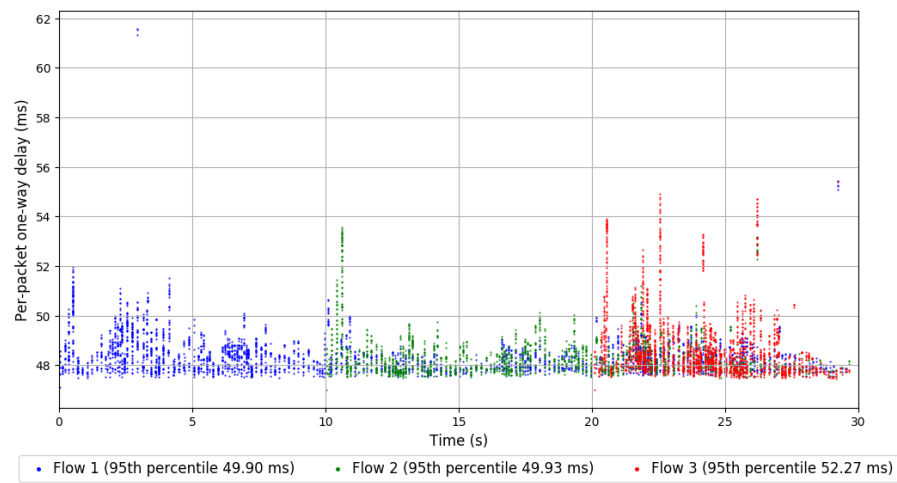
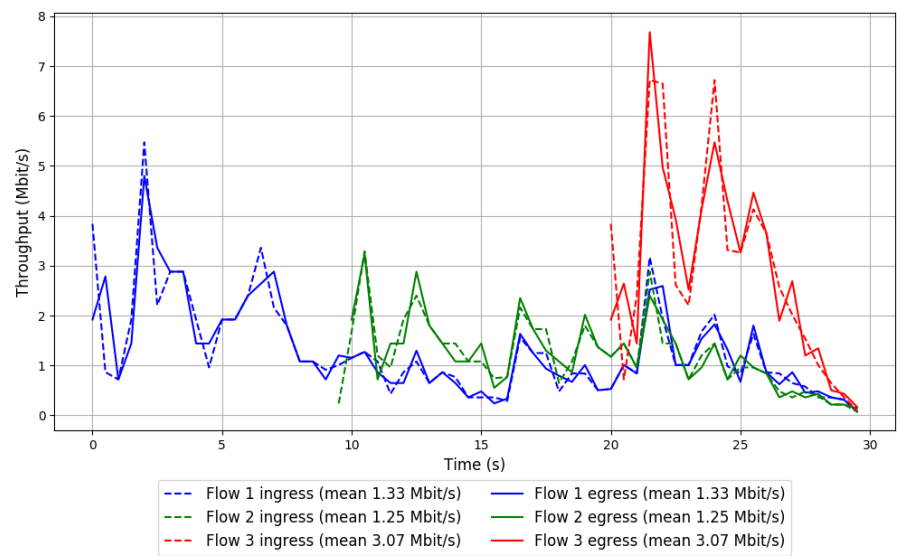


Run 10: Statistics of Indigo-calib

Start at: 2017-09-23 22:00:41
End at: 2017-09-23 22:01:11
Local clock offset: -2.002 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2017-09-23 22:24:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 50.485 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 49.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 49.926 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 52.267 ms
Loss rate: 0.08%

Run 10: Report of Indigo-calib — Data Link

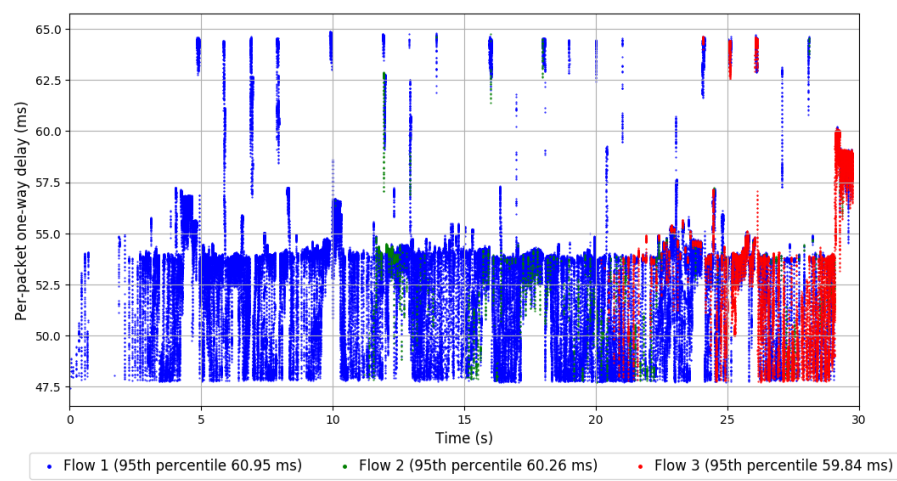
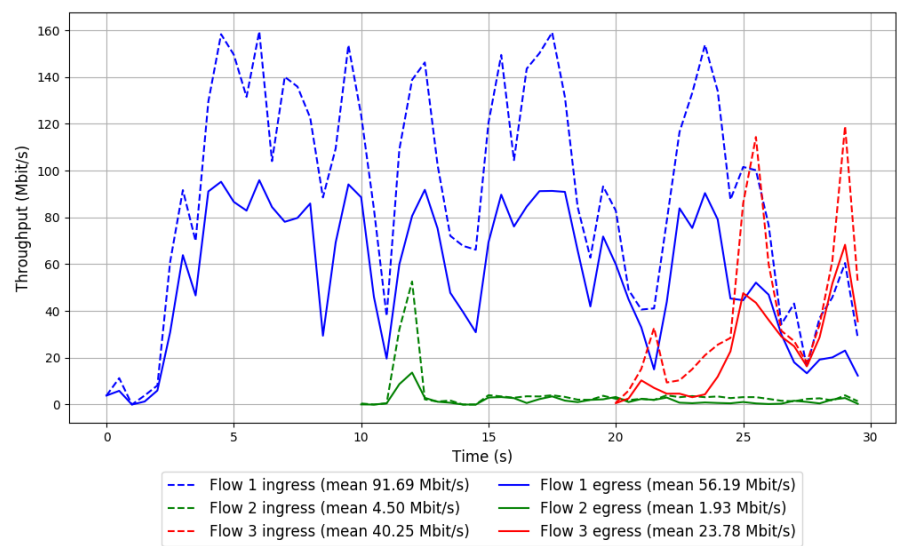


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-23 18:59:48
End at: 2017-09-23 19:00:18
Local clock offset: -1.023 ms
Remote clock offset: 1.342 ms

# Below is generated by plot.py at 2017-09-23 22:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 60.555 ms
Loss rate: 39.46%
-- Flow 1:
Average throughput: 56.19 Mbit/s
95th percentile per-packet one-way delay: 60.945 ms
Loss rate: 38.69%
-- Flow 2:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 60.258 ms
Loss rate: 56.97%
-- Flow 3:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 59.840 ms
Loss rate: 40.90%
```

Run 1: Report of Indigo-delay — Data Link

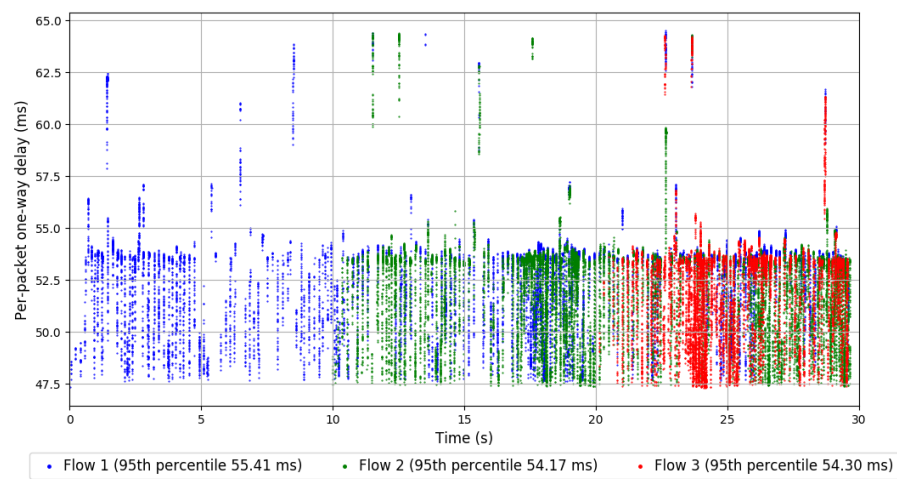
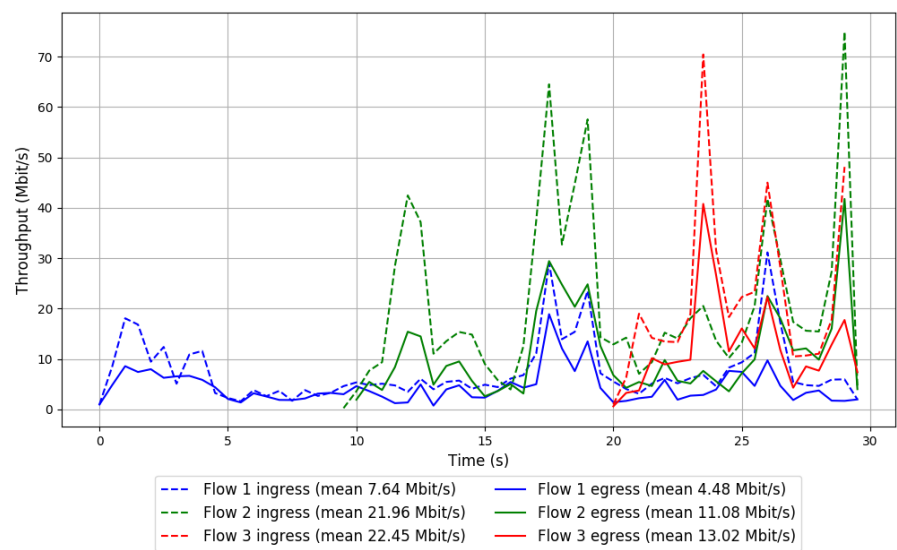


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-23 19:20:10
End at: 2017-09-23 19:20:40
Local clock offset: -0.492 ms
Remote clock offset: 1.727 ms

# Below is generated by plot.py at 2017-09-23 22:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 45.56%
-- Flow 1:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 55.413 ms
Loss rate: 41.35%
-- Flow 2:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 54.166 ms
Loss rate: 49.50%
-- Flow 3:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 54.304 ms
Loss rate: 42.01%
```


Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-23 19:39:18

End at: 2017-09-23 19:39:48

Local clock offset: -1.483 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2017-09-23 22:24:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 55.638 ms

Loss rate: 38.60%

-- Flow 1:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 55.056 ms

Loss rate: 20.00%

-- Flow 2:

Average throughput: 18.14 Mbit/s

95th percentile per-packet one-way delay: 55.193 ms

Loss rate: 43.37%

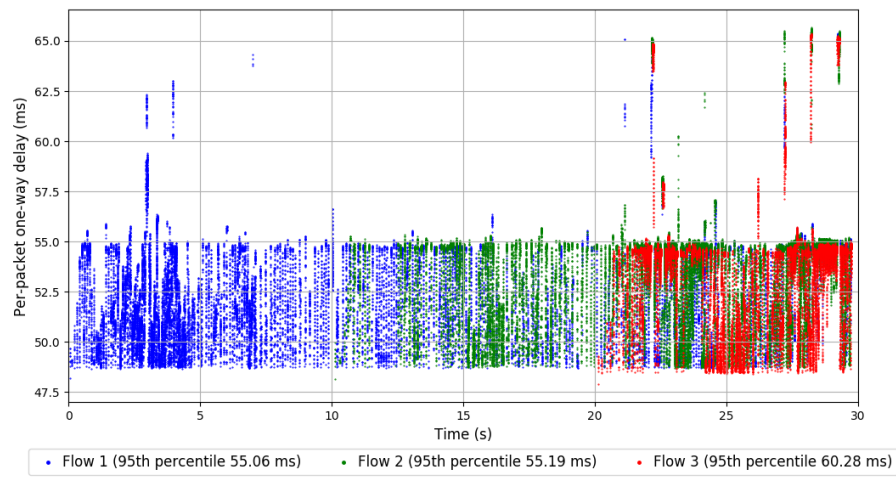
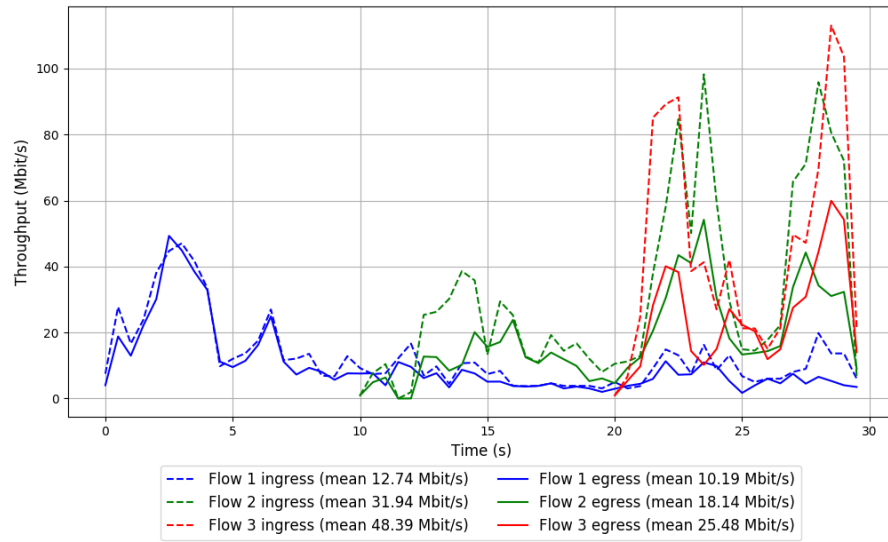
-- Flow 3:

Average throughput: 25.48 Mbit/s

95th percentile per-packet one-way delay: 60.282 ms

Loss rate: 47.30%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-23 19:58:21

End at: 2017-09-23 19:58:51

Local clock offset: -0.311 ms

Remote clock offset: 1.11 ms

Below is generated by plot.py at 2017-09-23 22:24:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 32.59%

-- Flow 1:

Average throughput: 29.24 Mbit/s

95th percentile per-packet one-way delay: 54.393 ms

Loss rate: 28.80%

-- Flow 2:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 54.441 ms

Loss rate: 39.67%

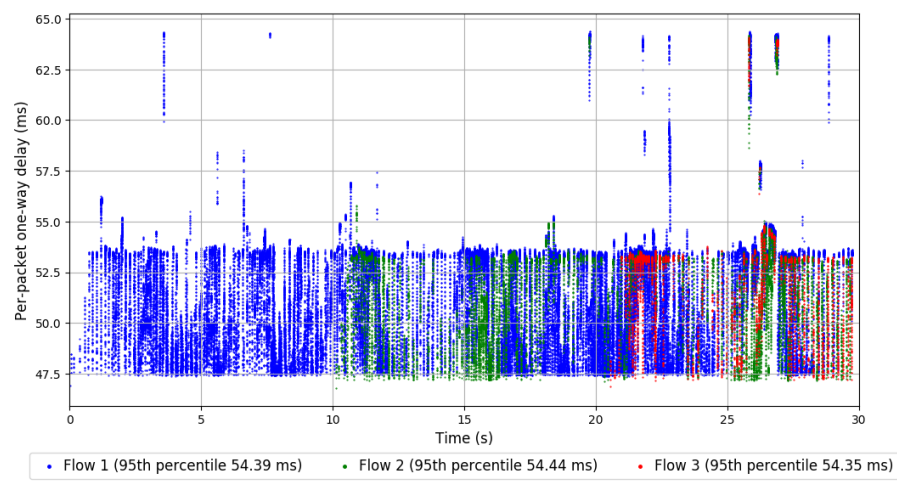
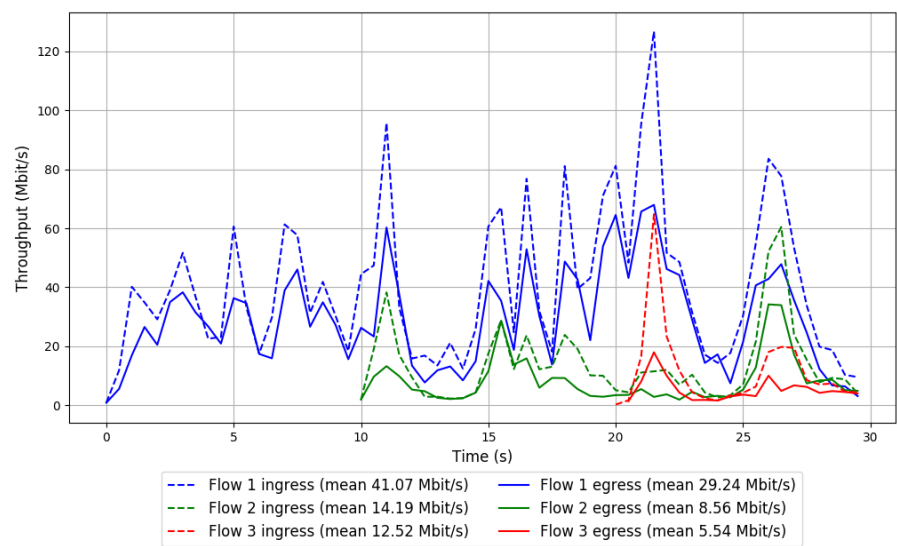
-- Flow 3:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 54.349 ms

Loss rate: 55.70%

Run 4: Report of Indigo-delay — Data Link



Run 5: Statistics of Indigo-delay

Start at: 2017-09-23 20:22:16

End at: 2017-09-23 20:22:46

Local clock offset: -1.582 ms

Remote clock offset: 0.869 ms

Below is generated by plot.py at 2017-09-23 22:24:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 55.231 ms

Loss rate: 34.61%

-- Flow 1:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 54.955 ms

Loss rate: 27.35%

-- Flow 2:

Average throughput: 22.37 Mbit/s

95th percentile per-packet one-way delay: 55.417 ms

Loss rate: 33.40%

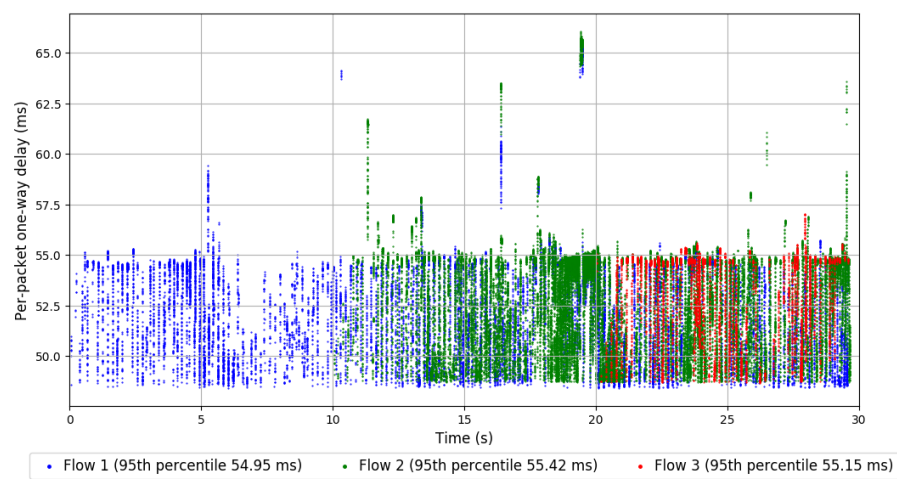
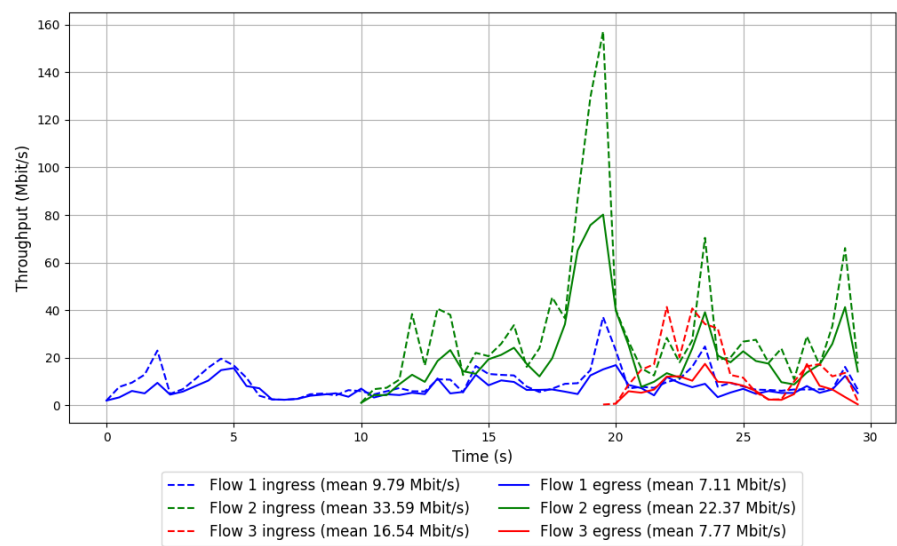
-- Flow 3:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 55.145 ms

Loss rate: 52.99%

Run 5: Report of Indigo-delay — Data Link



Run 6: Statistics of Indigo-delay

Start at: 2017-09-23 20:49:00

End at: 2017-09-23 20:49:30

Local clock offset: -2.284 ms

Remote clock offset: 0.369 ms

Below is generated by plot.py at 2017-09-23 22:24:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.51 Mbit/s

95th percentile per-packet one-way delay: 55.889 ms

Loss rate: 34.42%

-- Flow 1:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 55.922 ms

Loss rate: 34.23%

-- Flow 2:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 55.803 ms

Loss rate: 28.17%

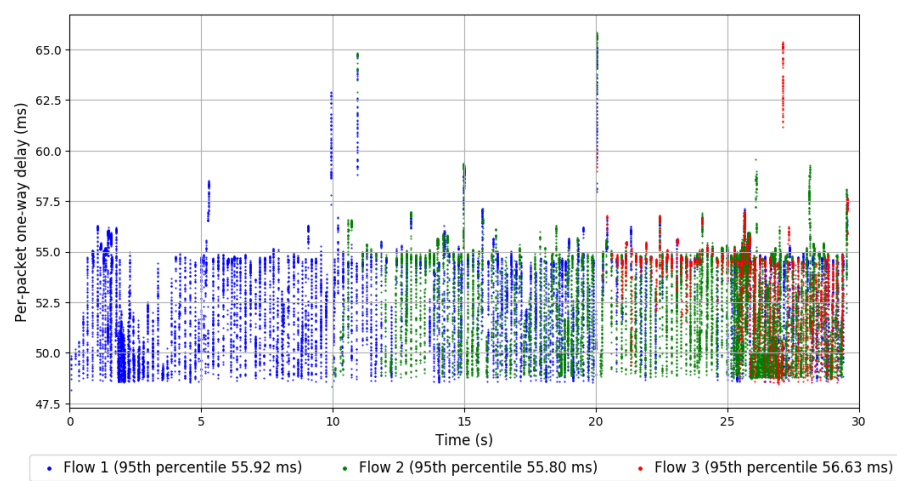
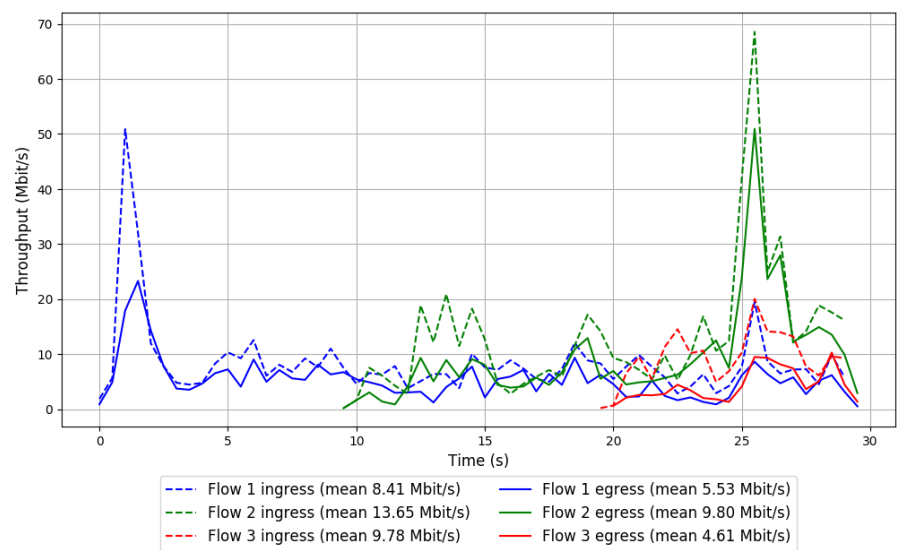
-- Flow 3:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 56.630 ms

Loss rate: 52.84%

Run 6: Report of Indigo-delay — Data Link



Run 7: Statistics of Indigo-delay

Start at: 2017-09-23 21:11:22

End at: 2017-09-23 21:11:52

Local clock offset: -2.597 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2017-09-23 22:24:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 60.400 ms

Loss rate: 30.29%

-- Flow 1:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 61.260 ms

Loss rate: 28.61%

-- Flow 2:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 56.488 ms

Loss rate: 31.74%

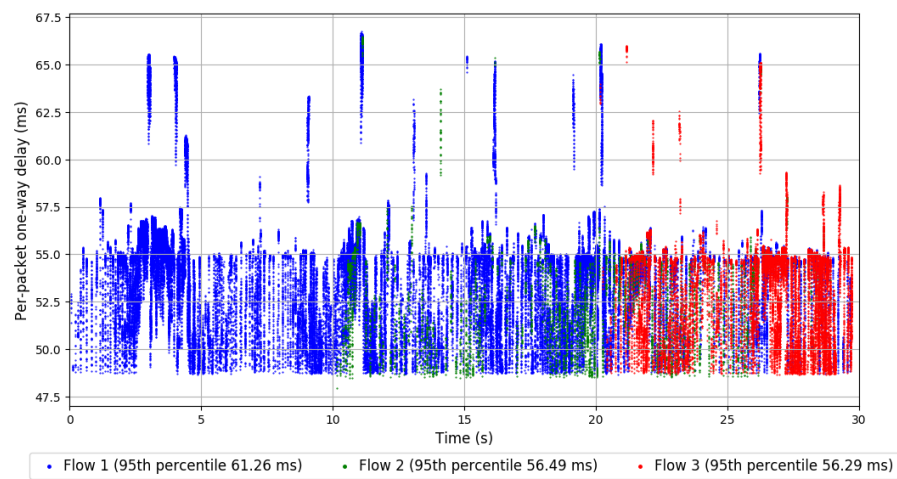
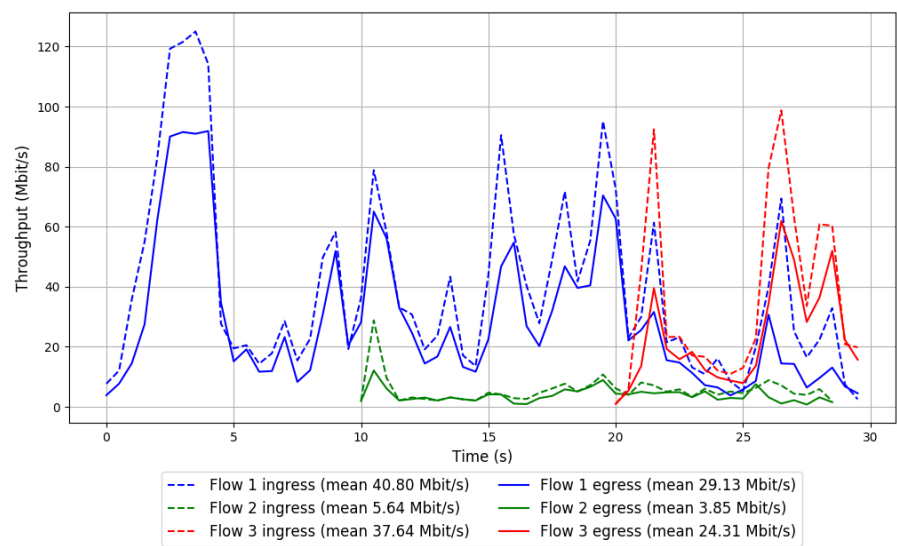
-- Flow 3:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 56.289 ms

Loss rate: 35.49%

Run 7: Report of Indigo-delay — Data Link

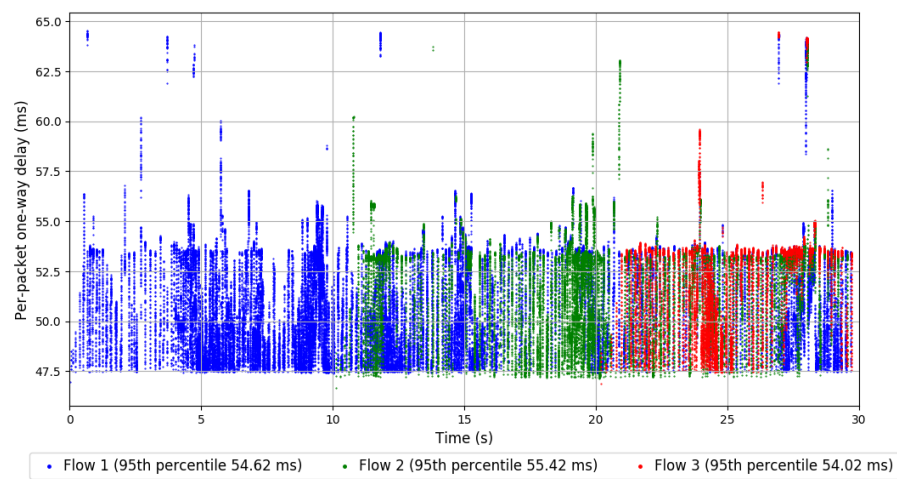
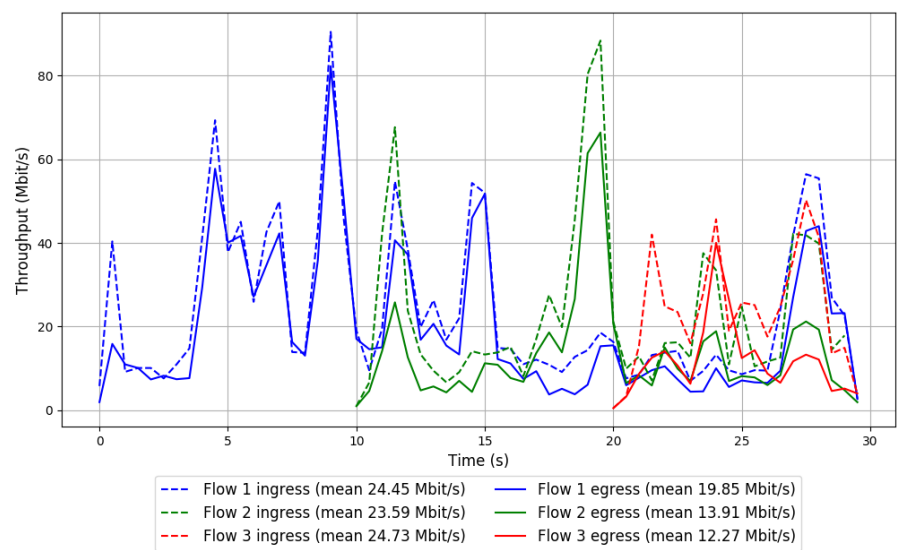


Run 8: Statistics of Indigo-delay

Start at: 2017-09-23 21:31:16
End at: 2017-09-23 21:31:47
Local clock offset: -1.853 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2017-09-23 22:24:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 54.820 ms
Loss rate: 31.20%
-- Flow 1:
Average throughput: 19.85 Mbit/s
95th percentile per-packet one-way delay: 54.620 ms
Loss rate: 18.78%
-- Flow 2:
Average throughput: 13.91 Mbit/s
95th percentile per-packet one-way delay: 55.422 ms
Loss rate: 41.00%
-- Flow 3:
Average throughput: 12.27 Mbit/s
95th percentile per-packet one-way delay: 54.016 ms
Loss rate: 50.33%

Run 8: Report of Indigo-delay — Data Link

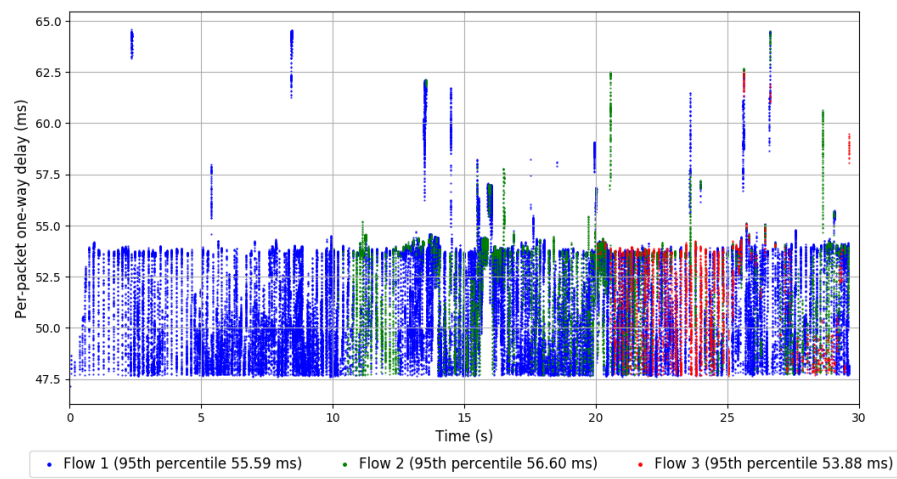
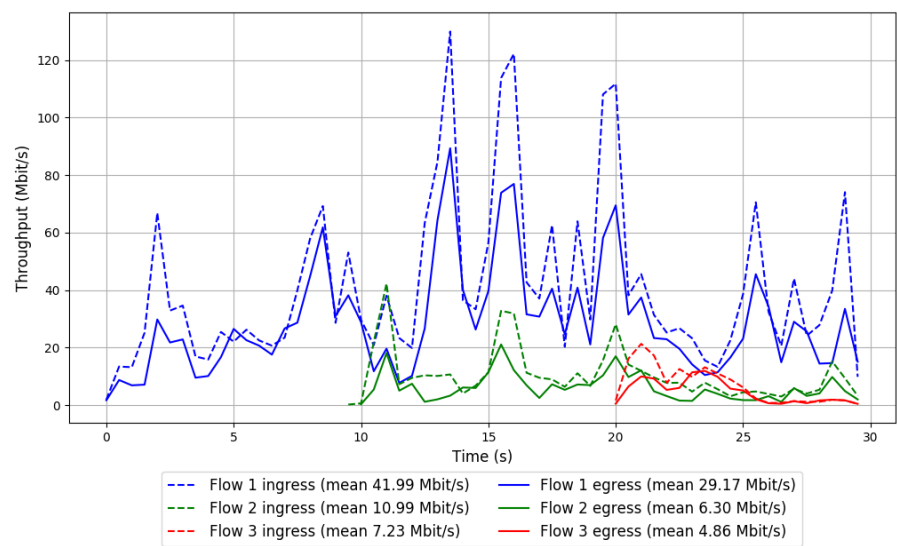


Run 9: Statistics of Indigo-delay

Start at: 2017-09-23 21:52:31
End at: 2017-09-23 21:53:01
Local clock offset: -2.123 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2017-09-23 22:24:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 55.540 ms
Loss rate: 32.34%
-- Flow 1:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 55.595 ms
Loss rate: 30.53%
-- Flow 2:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 56.604 ms
Loss rate: 42.68%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 53.885 ms
Loss rate: 32.69%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-23 22:15:09
End at: 2017-09-23 22:15:40
Local clock offset: -3.081 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2017-09-23 22:24:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 55.969 ms
Loss rate: 34.47%
-- Flow 1:
Average throughput: 17.25 Mbit/s
95th percentile per-packet one-way delay: 56.032 ms
Loss rate: 35.52%
-- Flow 2:
Average throughput: 20.80 Mbit/s
95th percentile per-packet one-way delay: 55.978 ms
Loss rate: 31.98%
-- Flow 3:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 55.157 ms
Loss rate: 42.44%

Run 10: Report of Indigo-delay — Data Link

