

Pantheon Report

Generated at 2017-10-12 10:06:14 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India 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).

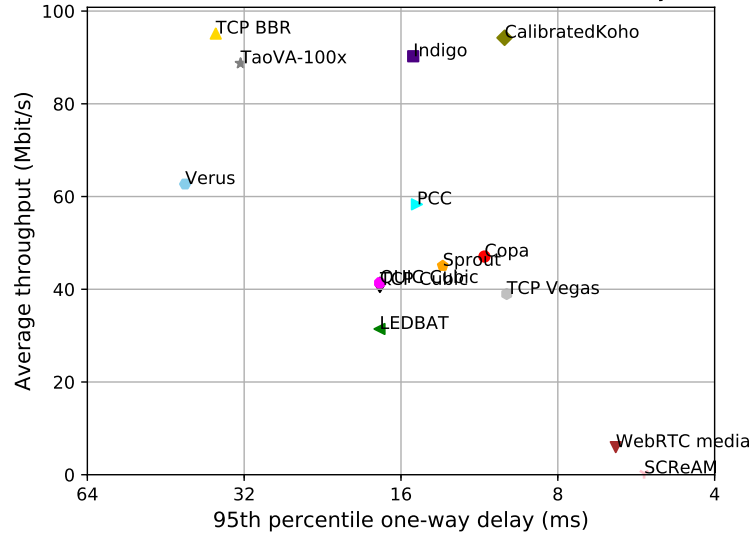
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

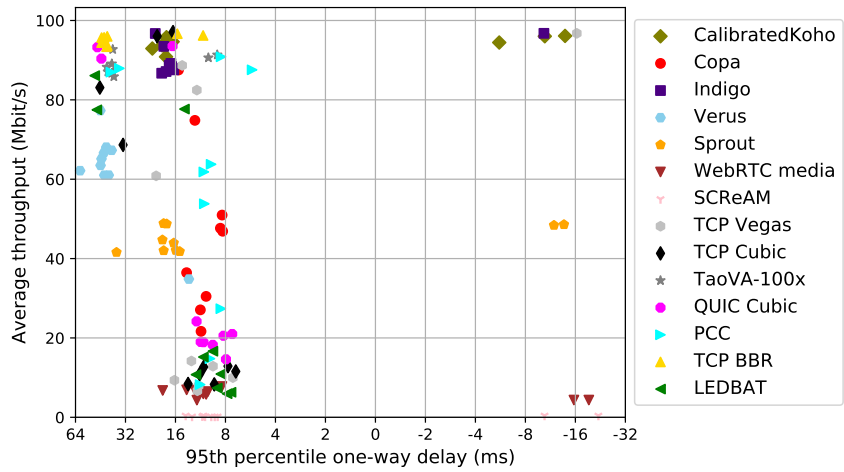
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
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 @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



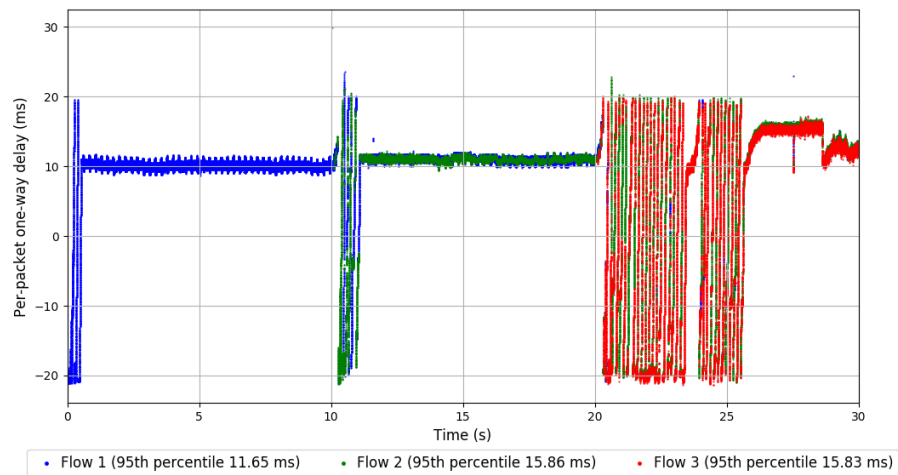
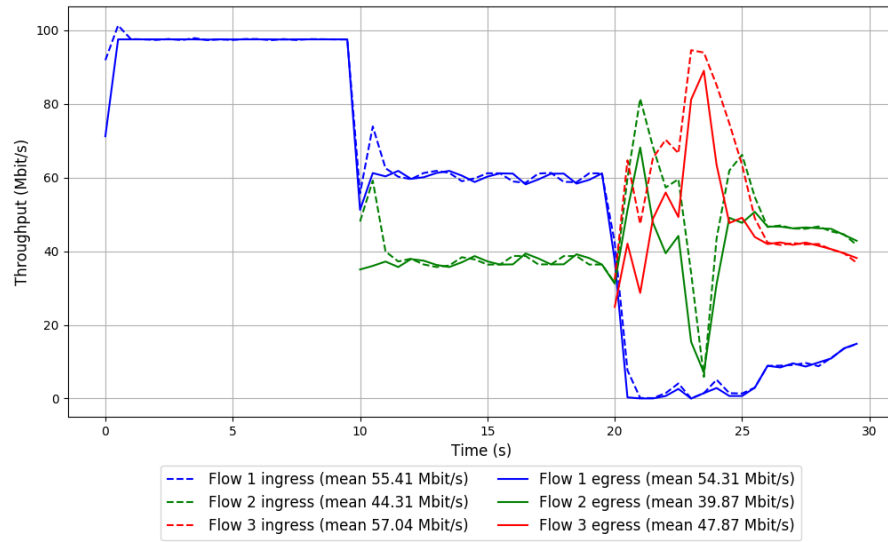
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	9	56.74	42.48	32.02	34.38	37.29	37.93	12.66	14.92	18.12
TCP Cubic	10	26.03	16.25	12.30	17.53	17.81	17.53	1.66	1.71	1.63
LEDBAT	10	19.05	13.17	11.37	17.51	17.66	17.67	2.79	2.91	2.86
PCC	10	44.80	18.35	3.98	14.54	15.90	15.38	5.03	5.84	6.77
QUIC Cubic	10	25.68	16.39	14.62	18.52	17.39	17.77	2.73	3.28	4.07
SCReAM	10	0.14	0.15	0.16	5.53	5.34	4.38	1.79	1.64	2.45
WebRTC media	10	3.24	2.07	0.65	6.10	5.93	6.76	2.00	2.31	2.24
Sprout	10	22.84	22.58	21.85	13.08	13.10	13.73	3.91	4.21	5.04
TaoVA-100x	9	54.03	39.66	31.65	28.11	33.29	36.90	12.06	16.72	20.43
TCP Vegas	10	22.94	16.95	14.33	10.16	9.61	6.66	1.73	1.79	1.62
Verus	10	39.99	28.13	15.09	38.88	42.00	36.34	34.23	48.68	45.10
Copa	9	39.76	26.76	25.15	14.95	11.02	11.42	13.84	4.98	5.16
CalibratedKoho	10	43.60	58.91	34.49	9.46	10.37	10.35	10.84	9.42	9.38
Indigo	10	60.46	31.06	28.28	14.20	15.79	19.24	8.01	8.32	9.09

Run 1: Statistics of TCP BBR

Start at: 2017-10-12 06:38:45
End at: 2017-10-12 06:39:15
Local clock offset: -0.632 ms
Remote clock offset: -17.393 ms

Below is generated by plot.py at 2017-10-12 09:50:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 15.590 ms
Loss rate: 6.80%
-- Flow 1:
Average throughput: 54.31 Mbit/s
95th percentile per-packet one-way delay: 11.654 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 15.860 ms
Loss rate: 10.11%
-- Flow 3:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 15.830 ms
Loss rate: 16.06%

Run 1: Report of TCP BBR — Data Link

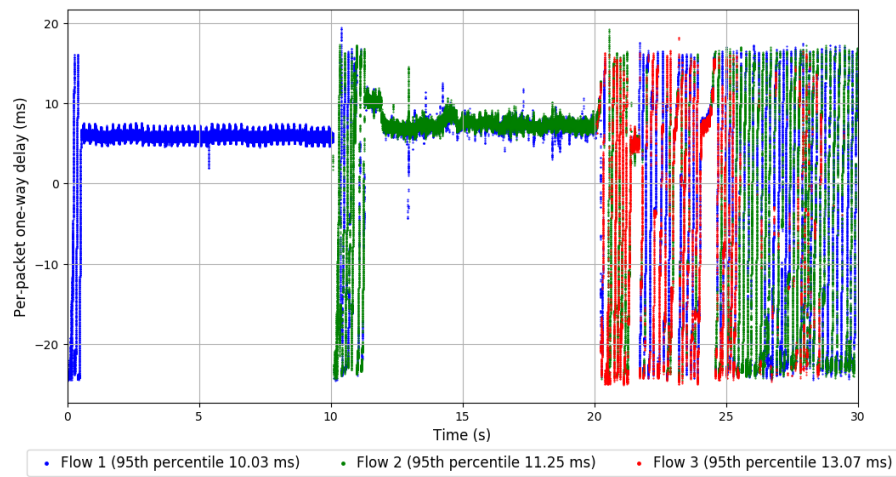
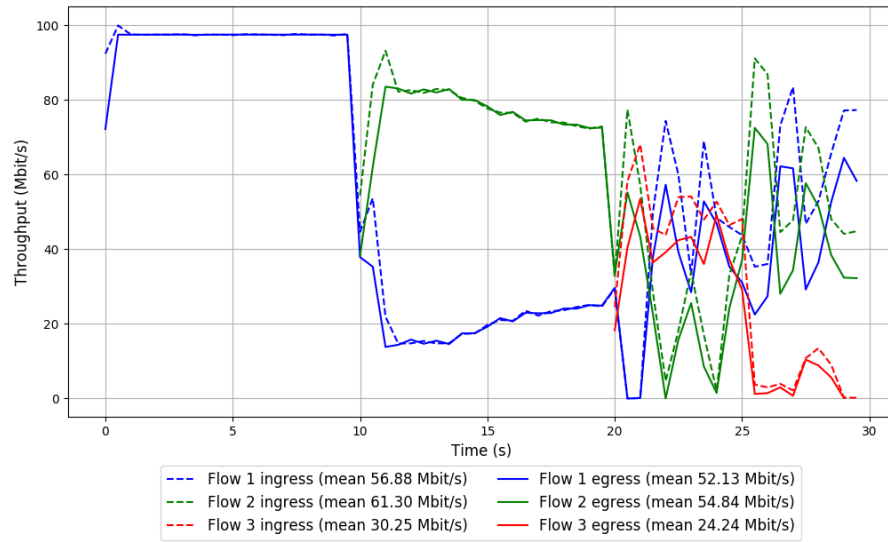


Run 2: Statistics of TCP BBR

Start at: 2017-10-12 06:56:01
End at: 2017-10-12 06:56:31
Local clock offset: 3.518 ms
Remote clock offset: -12.498 ms

Below is generated by plot.py at 2017-10-12 09:50:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.906 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 10.025 ms
Loss rate: 8.33%
-- Flow 2:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 11.250 ms
Loss rate: 10.64%
-- Flow 3:
Average throughput: 24.24 Mbit/s
95th percentile per-packet one-way delay: 13.066 ms
Loss rate: 22.63%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

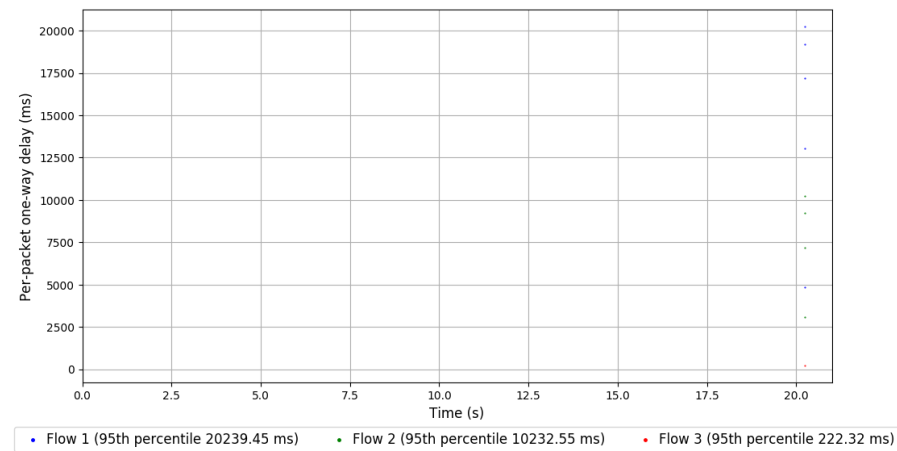
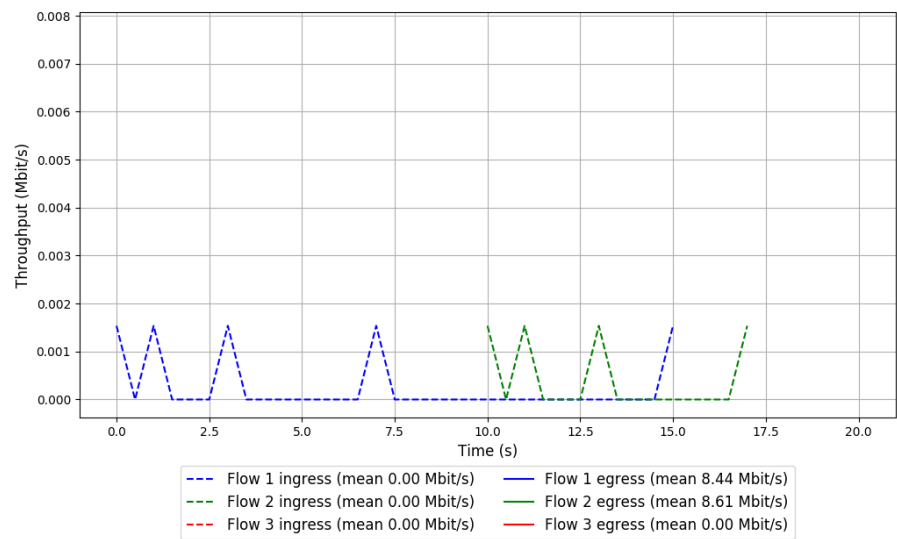
Start at: 2017-10-12 07:14:08

End at: 2017-10-12 07:14:38

Local clock offset: 0.782 ms

Remote clock offset: 20.607 ms

Run 3: Report of TCP BBR — Data Link

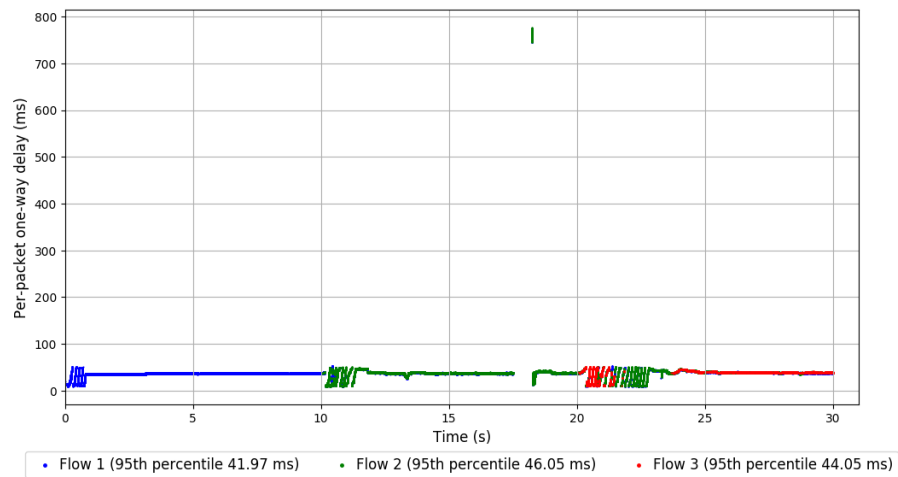
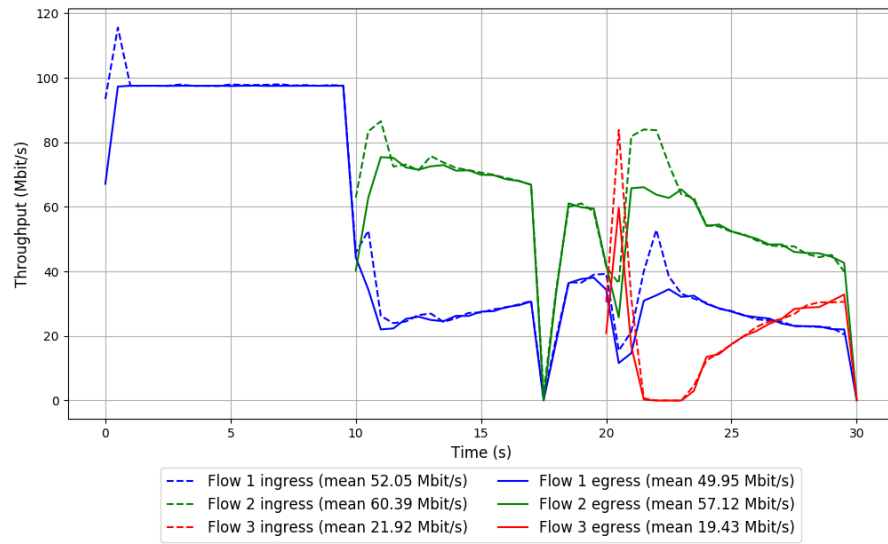


Run 4: Statistics of TCP BBR

Start at: 2017-10-12 07:30:38
End at: 2017-10-12 07:31:08
Local clock offset: 1.135 ms
Remote clock offset: 17.183 ms

Below is generated by plot.py at 2017-10-12 09:50:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 44.587 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 41.971 ms
Loss rate: 3.98%
-- Flow 2:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 46.055 ms
Loss rate: 5.40%
-- Flow 3:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 44.051 ms
Loss rate: 11.37%

Run 4: Report of TCP BBR — Data Link

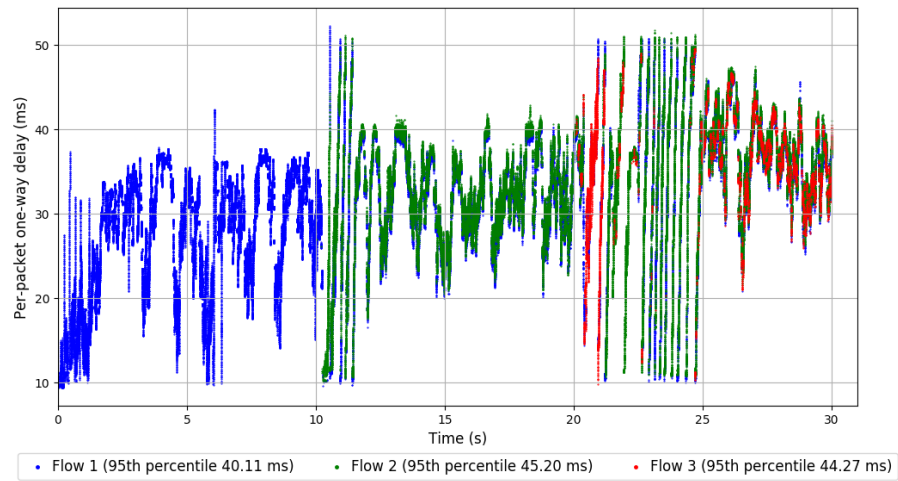
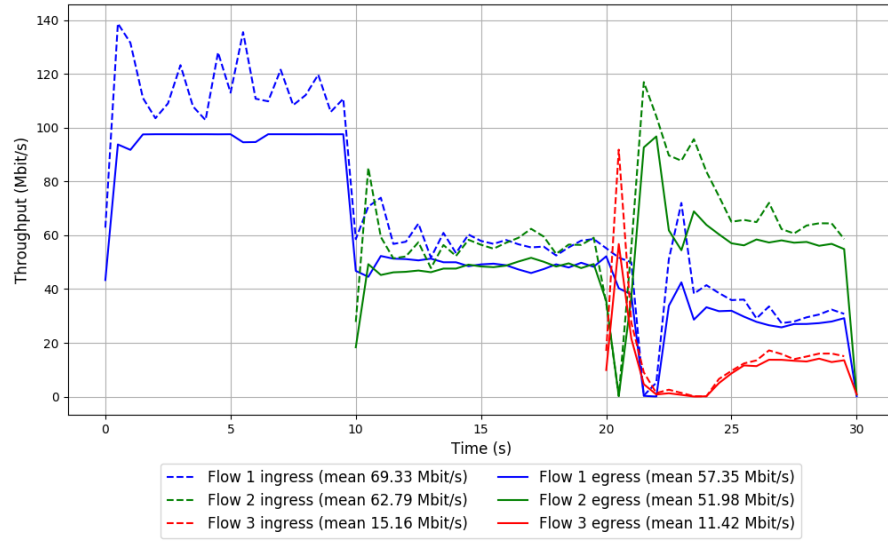


Run 5: Statistics of TCP BBR

Start at: 2017-10-12 07:48:00
End at: 2017-10-12 07:48:30
Local clock offset: 2.742 ms
Remote clock offset: 16.911 ms

Below is generated by plot.py at 2017-10-12 09:50:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.75 Mbit/s
95th percentile per-packet one-way delay: 43.045 ms
Loss rate: 17.50%
-- Flow 1:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 40.106 ms
Loss rate: 17.19%
-- Flow 2:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 45.195 ms
Loss rate: 17.16%
-- Flow 3:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 44.275 ms
Loss rate: 24.67%

Run 5: Report of TCP BBR — Data Link

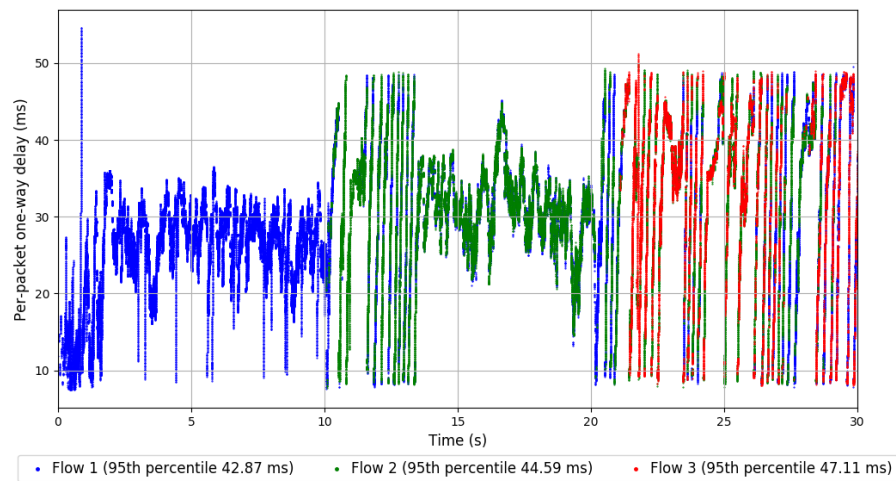
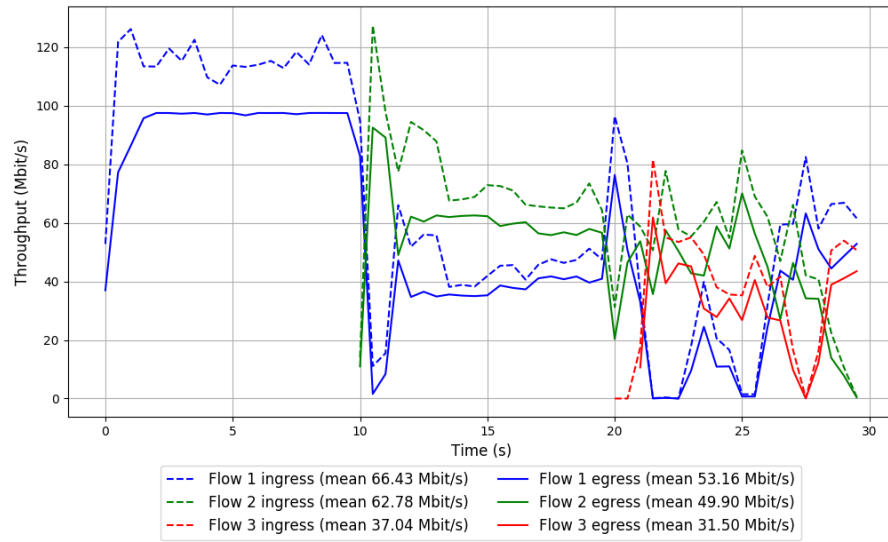


Run 6: Statistics of TCP BBR

Start at: 2017-10-12 08:05:28
End at: 2017-10-12 08:05:58
Local clock offset: 1.98 ms
Remote clock offset: 10.933 ms

Below is generated by plot.py at 2017-10-12 09:50:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 44.572 ms
Loss rate: 20.49%
-- Flow 1:
Average throughput: 53.16 Mbit/s
95th percentile per-packet one-way delay: 42.873 ms
Loss rate: 19.91%
-- Flow 2:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 44.587 ms
Loss rate: 20.49%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 47.111 ms
Loss rate: 23.64%

Run 6: Report of TCP BBR — Data Link

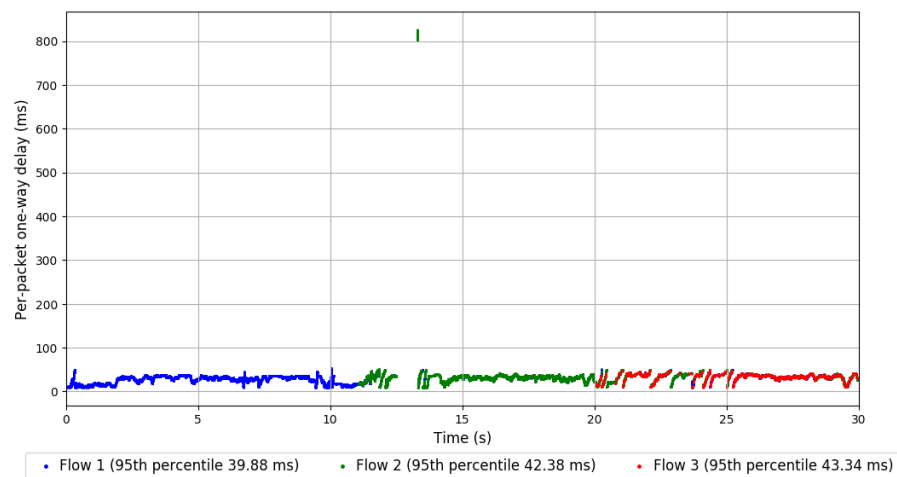
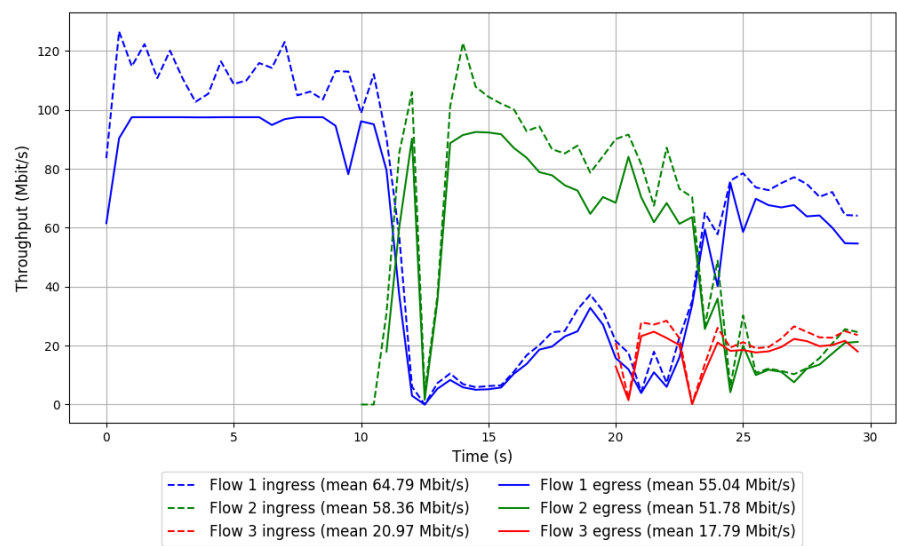


Run 7: Statistics of TCP BBR

Start at: 2017-10-12 08:24:10
End at: 2017-10-12 08:24:40
Local clock offset: 1.562 ms
Remote clock offset: 10.224 ms

Below is generated by plot.py at 2017-10-12 09:50:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 41.155 ms
Loss rate: 15.28%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 39.880 ms
Loss rate: 15.00%
-- Flow 2:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 42.375 ms
Loss rate: 15.79%
-- Flow 3:
Average throughput: 17.79 Mbit/s
95th percentile per-packet one-way delay: 43.343 ms
Loss rate: 15.11%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-12 08:40:28

End at: 2017-10-12 08:40:58

Local clock offset: 2.167 ms

Remote clock offset: 7.782 ms

Below is generated by plot.py at 2017-10-12 09:50:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 41.598 ms

Loss rate: 20.09%

-- Flow 1:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 40.096 ms

Loss rate: 19.94%

-- Flow 2:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 42.300 ms

Loss rate: 20.29%

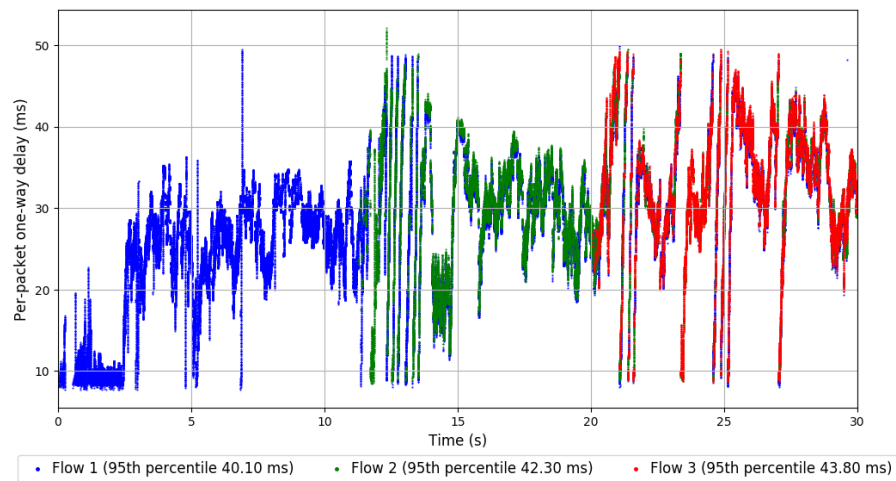
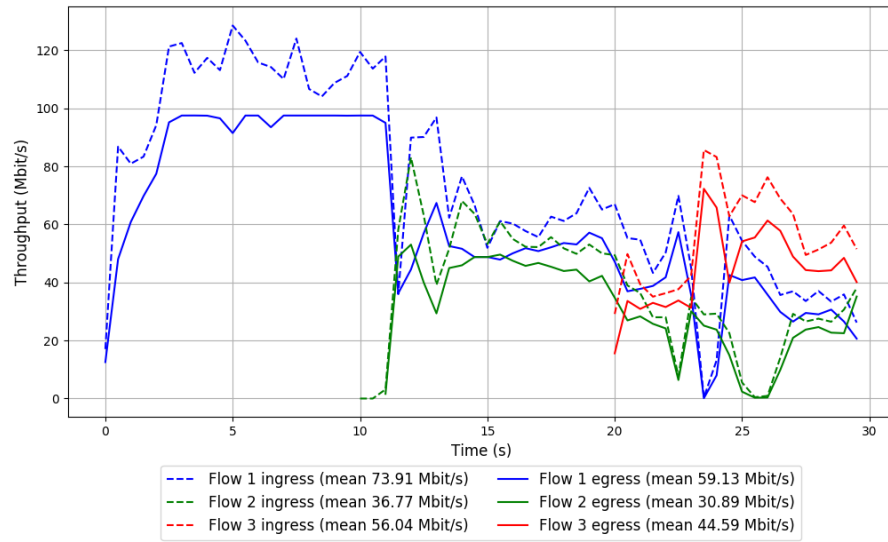
-- Flow 3:

Average throughput: 44.59 Mbit/s

95th percentile per-packet one-way delay: 43.803 ms

Loss rate: 20.41%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-12 08:56:43

End at: 2017-10-12 08:57:13

Local clock offset: 4.096 ms

Remote clock offset: 6.538 ms

Below is generated by plot.py at 2017-10-12 09:50:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 41.215 ms

Loss rate: 13.66%

-- Flow 1:

Average throughput: 57.60 Mbit/s

95th percentile per-packet one-way delay: 40.265 ms

Loss rate: 14.53%

-- Flow 2:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 42.133 ms

Loss rate: 12.59%

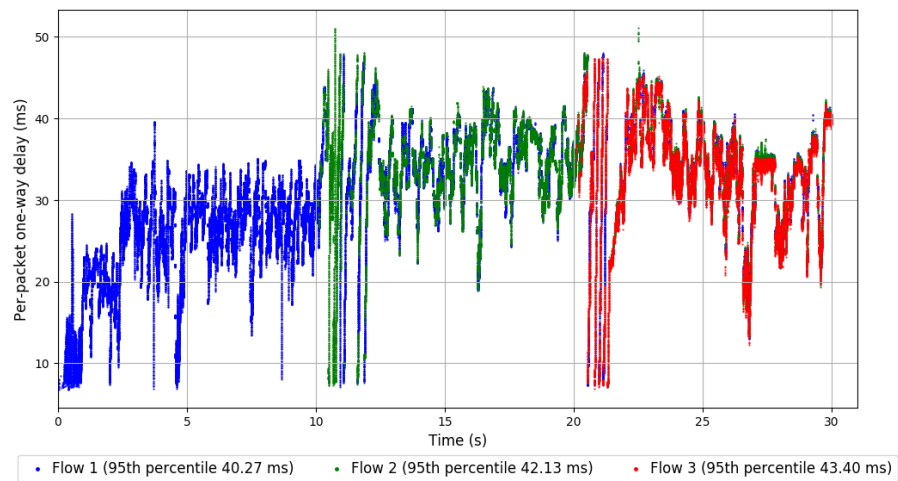
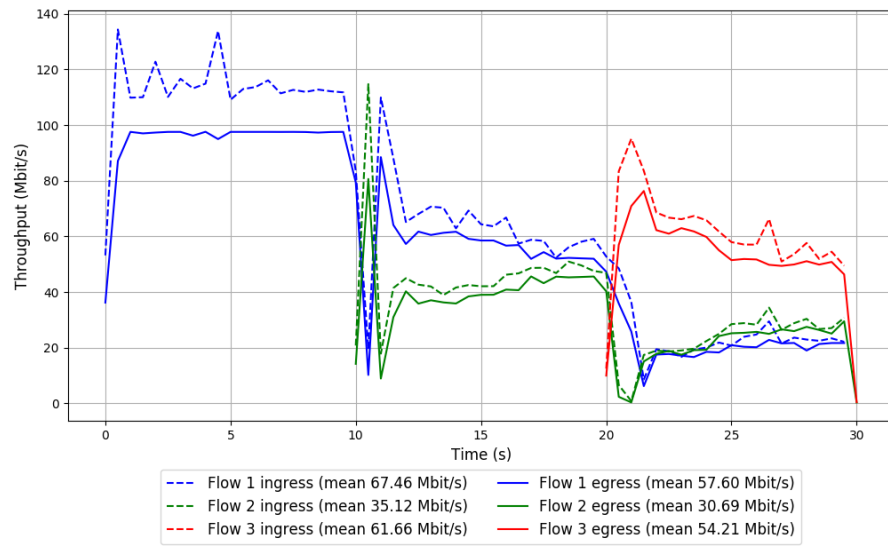
-- Flow 3:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 43.396 ms

Loss rate: 12.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-12 09:12:49

End at: 2017-10-12 09:13:19

Local clock offset: 1.432 ms

Remote clock offset: 4.645 ms

Below is generated by plot.py at 2017-10-12 09:52:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 43.869 ms

Loss rate: 14.71%

-- Flow 1:

Average throughput: 71.99 Mbit/s

95th percentile per-packet one-way delay: 42.525 ms

Loss rate: 13.16%

-- Flow 2:

Average throughput: 15.29 Mbit/s

95th percentile per-packet one-way delay: 45.812 ms

Loss rate: 21.78%

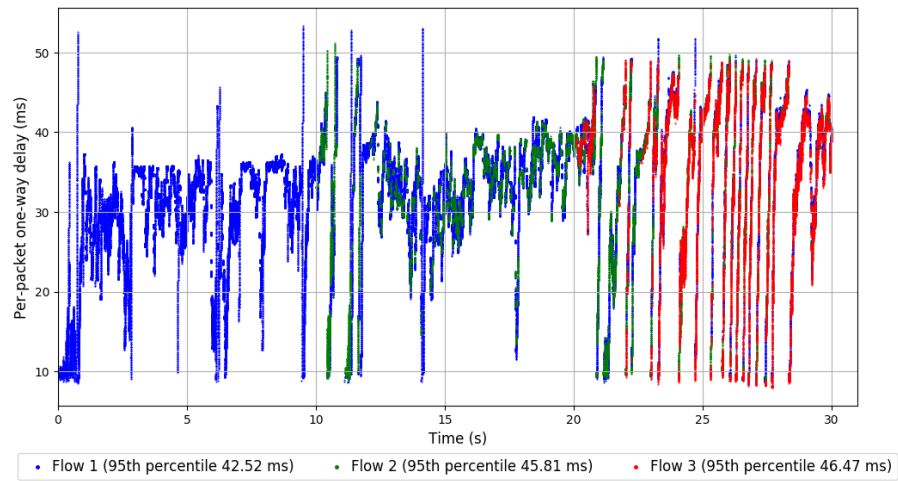
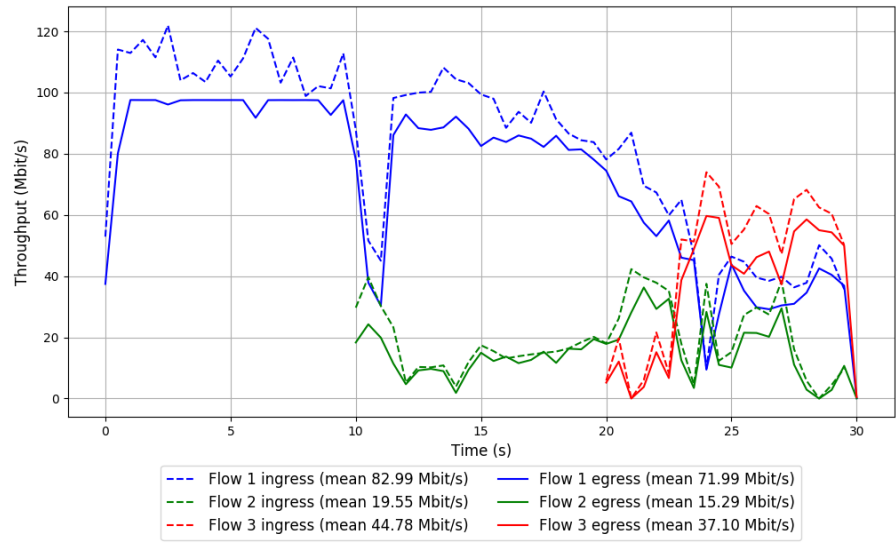
-- Flow 3:

Average throughput: 37.10 Mbit/s

95th percentile per-packet one-way delay: 46.469 ms

Loss rate: 17.15%

Run 10: Report of TCP BBR — Data Link

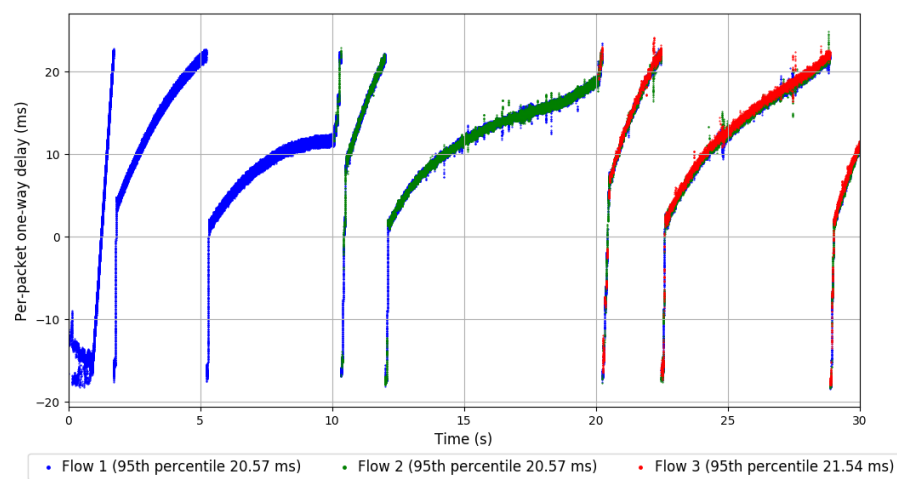
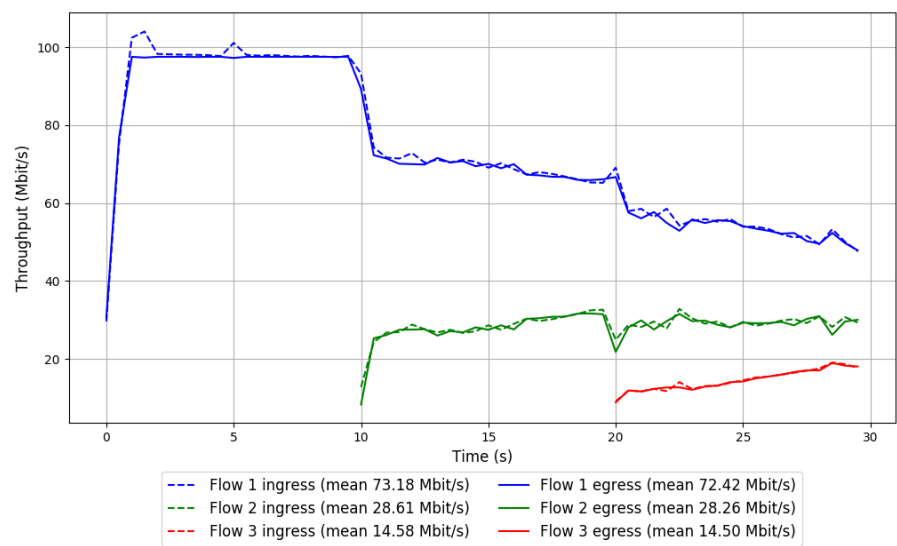


Run 1: Statistics of TCP Cubic

Start at: 2017-10-12 06:40:02
End at: 2017-10-12 06:40:32
Local clock offset: -1.258 ms
Remote clock offset: -14.517 ms

Below is generated by plot.py at 2017-10-12 09:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 20.624 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 72.42 Mbit/s
95th percentile per-packet one-way delay: 20.569 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 20.566 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 14.50 Mbit/s
95th percentile per-packet one-way delay: 21.538 ms
Loss rate: 0.57%

Run 1: Report of TCP Cubic — Data Link

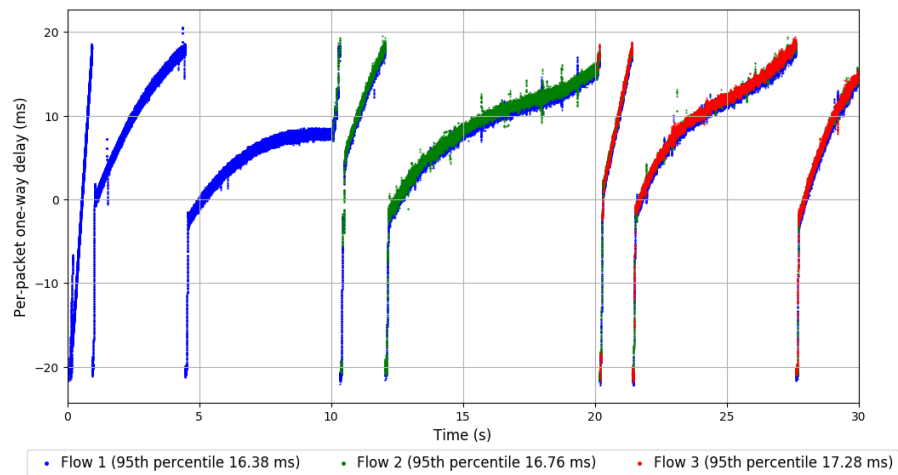
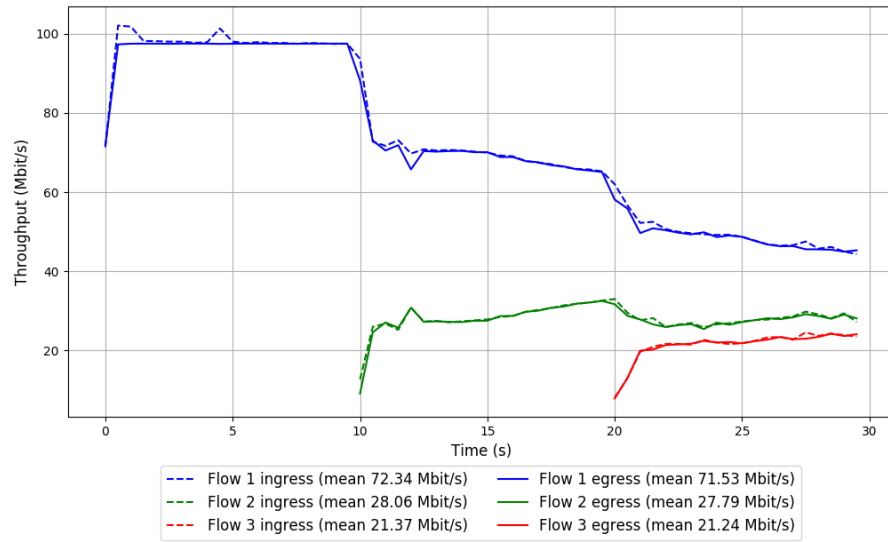


Run 2: Statistics of TCP Cubic

Start at: 2017-10-12 06:57:53
End at: 2017-10-12 06:58:23
Local clock offset: 1.286 ms
Remote clock offset: -11.608 ms

Below is generated by plot.py at 2017-10-12 09:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 16.547 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 71.53 Mbit/s
95th percentile per-packet one-way delay: 16.377 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 16.758 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 17.277 ms
Loss rate: 0.62%

Run 2: Report of TCP Cubic — Data Link

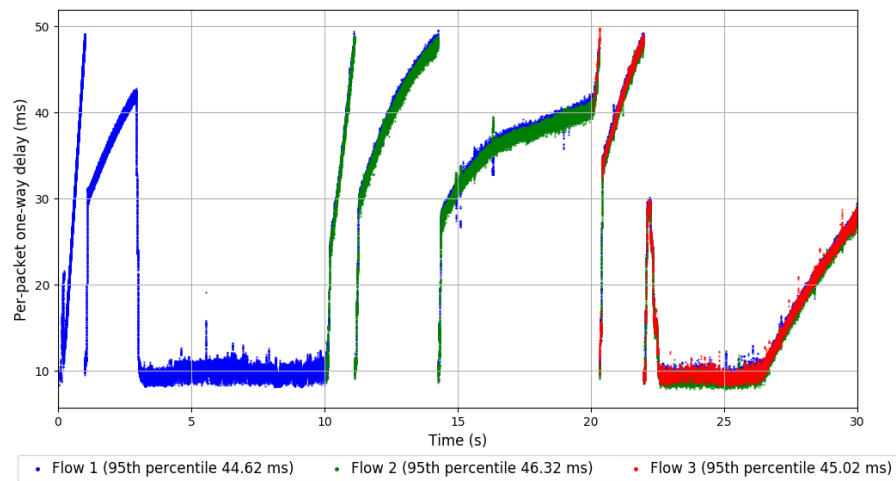
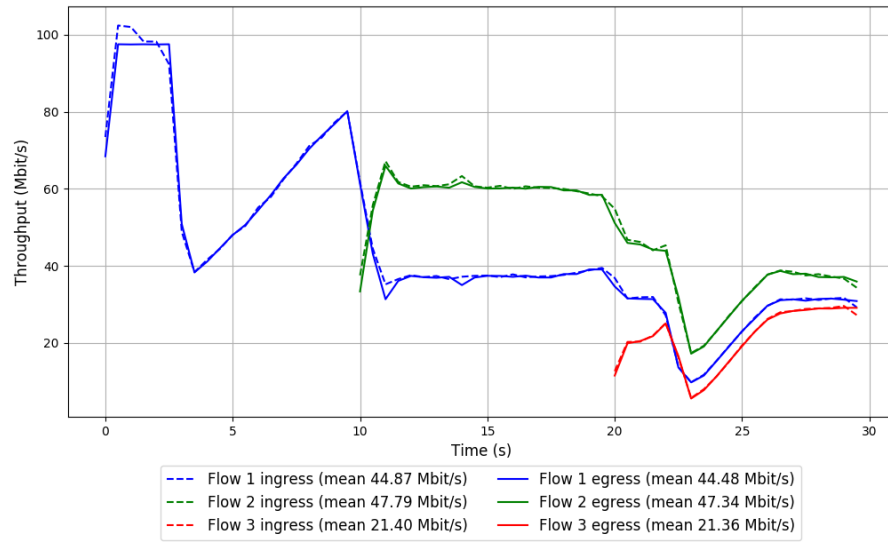


Run 3: Statistics of TCP Cubic

Start at: 2017-10-12 07:15:14
End at: 2017-10-12 07:15:44
Local clock offset: 1.637 ms
Remote clock offset: 20.006 ms

Below is generated by plot.py at 2017-10-12 09:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.09 Mbit/s
95th percentile per-packet one-way delay: 45.663 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 44.48 Mbit/s
95th percentile per-packet one-way delay: 44.615 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 46.319 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 21.36 Mbit/s
95th percentile per-packet one-way delay: 45.023 ms
Loss rate: 0.30%

Run 3: Report of TCP Cubic — Data Link

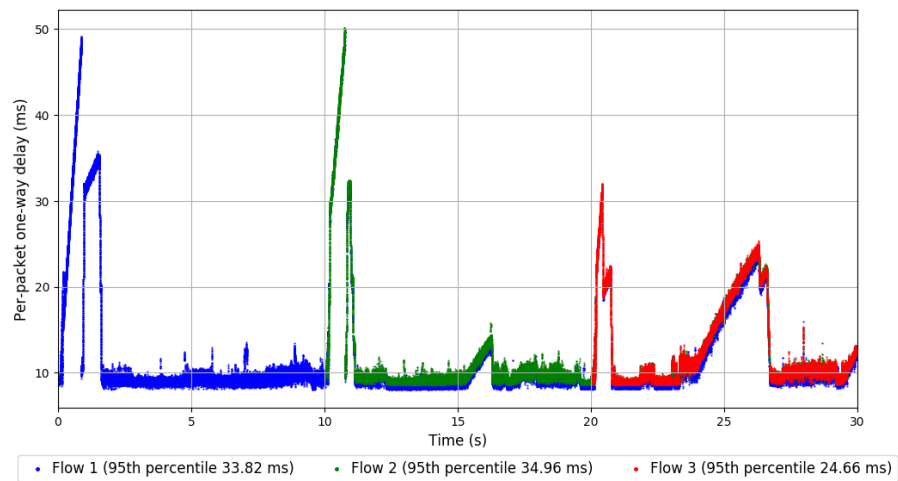
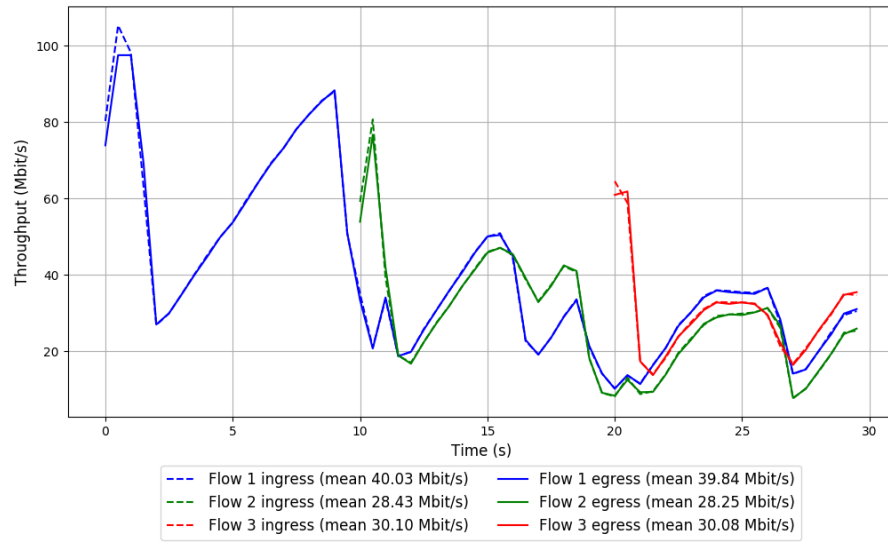


Run 4: Statistics of TCP Cubic

Start at: 2017-10-12 07:31:50
End at: 2017-10-12 07:32:20
Local clock offset: 1.243 ms
Remote clock offset: 16.875 ms

Below is generated by plot.py at 2017-10-12 09:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.65 Mbit/s
95th percentile per-packet one-way delay: 33.087 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 33.823 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 28.25 Mbit/s
95th percentile per-packet one-way delay: 34.963 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 24.658 ms
Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link

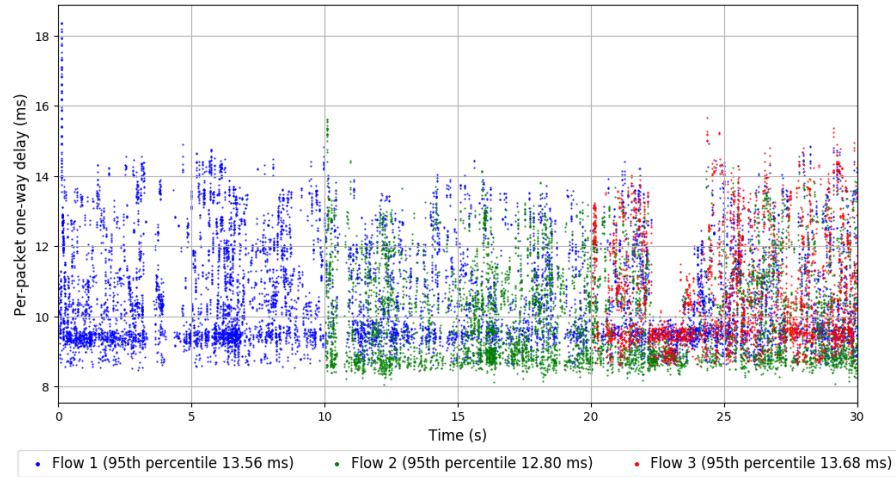
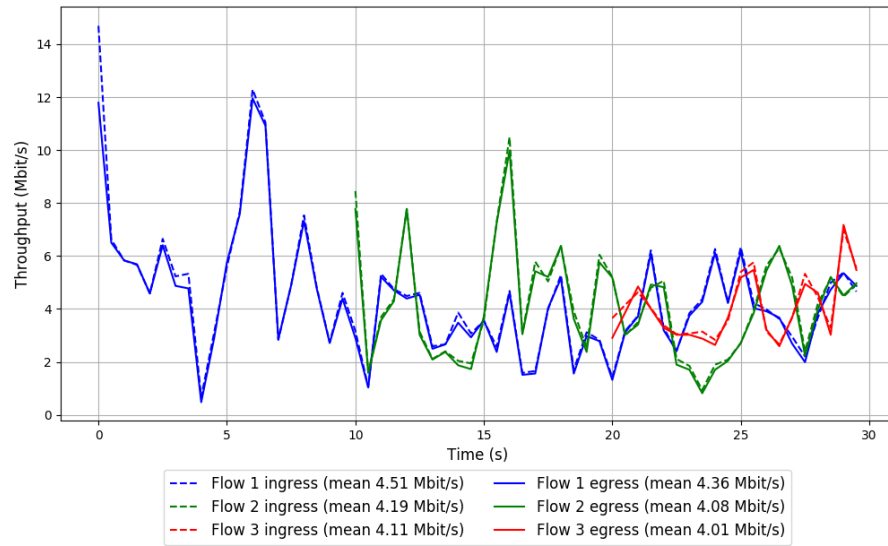


Run 5: Statistics of TCP Cubic

Start at: 2017-10-12 07:49:17
End at: 2017-10-12 07:49:47
Local clock offset: 3.217 ms
Remote clock offset: 15.665 ms

Below is generated by plot.py at 2017-10-12 09:52:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 13.430 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 13.560 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 12.797 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 13.680 ms
Loss rate: 2.67%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-12 08:08:54

End at: 2017-10-12 08:09:24

Local clock offset: 3.268 ms

Remote clock offset: 11.47 ms

Below is generated by plot.py at 2017-10-12 09:52:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 11.446 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 11.272 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 11.716 ms

Loss rate: 1.74%

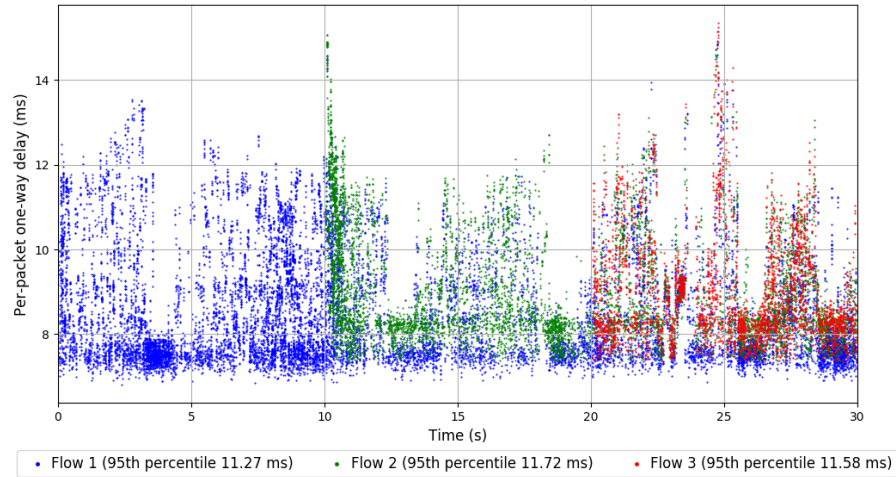
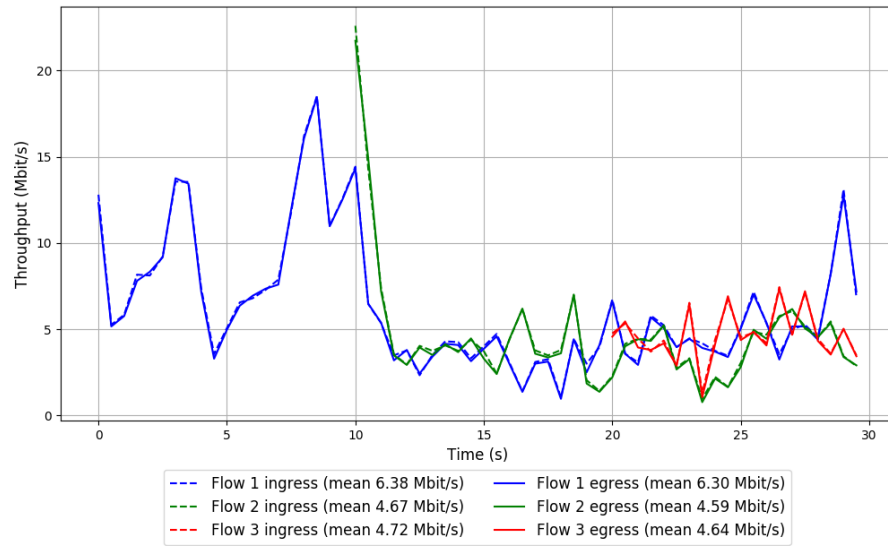
-- Flow 3:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 11.579 ms

Loss rate: 1.72%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-12 08:25:24

End at: 2017-10-12 08:25:54

Local clock offset: 1.085 ms

Remote clock offset: 8.733 ms

Below is generated by plot.py at 2017-10-12 09:52:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 10.822 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 5.32 Mbit/s

95th percentile per-packet one-way delay: 9.941 ms

Loss rate: 1.43%

-- Flow 2:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: 10.756 ms

Loss rate: 1.12%

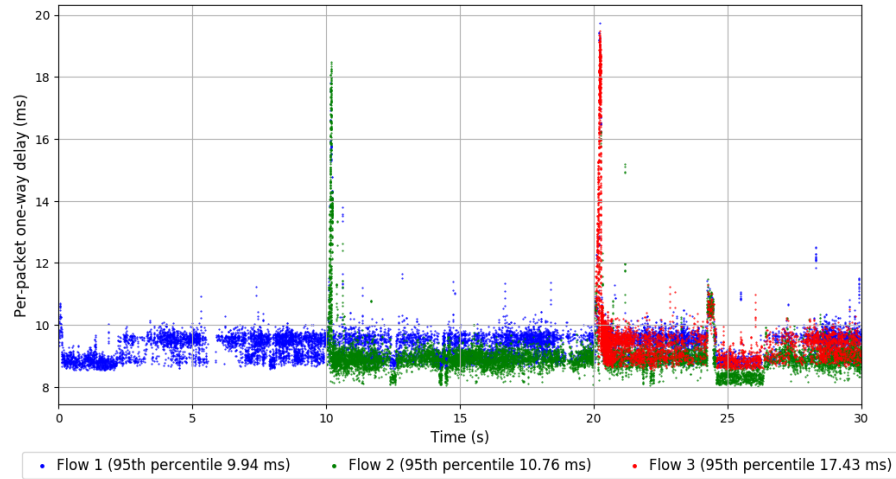
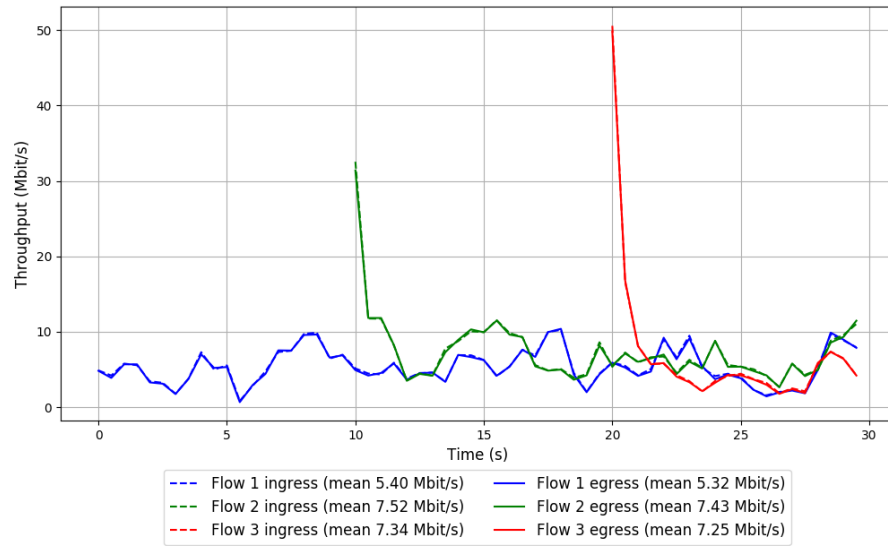
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 17.432 ms

Loss rate: 1.25%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-12 08:41:44

End at: 2017-10-12 08:42:14

Local clock offset: 2.124 ms

Remote clock offset: 7.189 ms

Below is generated by plot.py at 2017-10-12 09:52:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 9.340 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 10.244 ms

Loss rate: 3.06%

-- Flow 2:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 9.064 ms

Loss rate: 3.35%

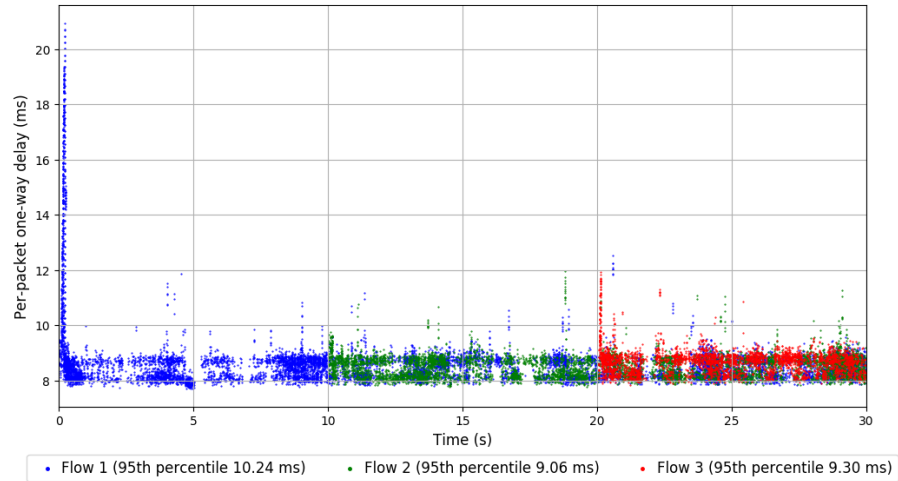
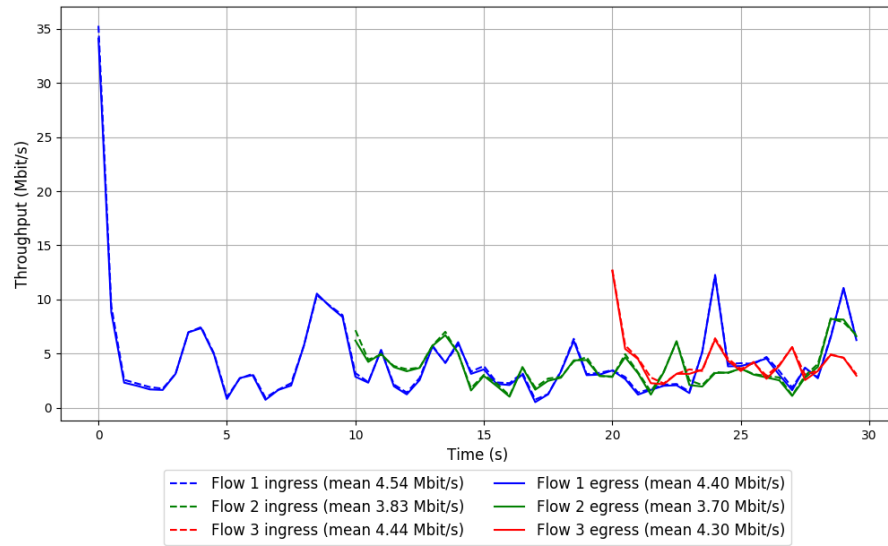
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 9.305 ms

Loss rate: 3.29%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-12 08:57:56

End at: 2017-10-12 08:58:26

Local clock offset: 3.41 ms

Remote clock offset: 5.769 ms

Below is generated by plot.py at 2017-10-12 09:52:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 7.727 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 8.372 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 6.13 Mbit/s

95th percentile per-packet one-way delay: 7.549 ms

Loss rate: 1.26%

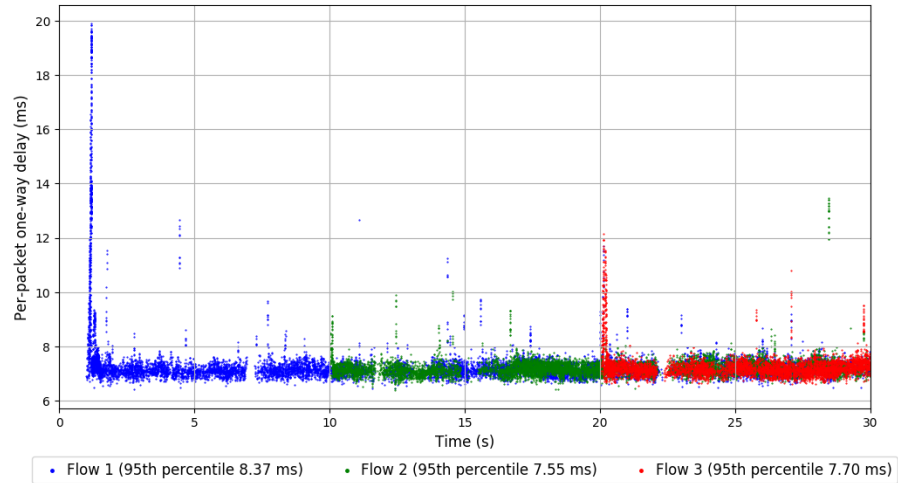
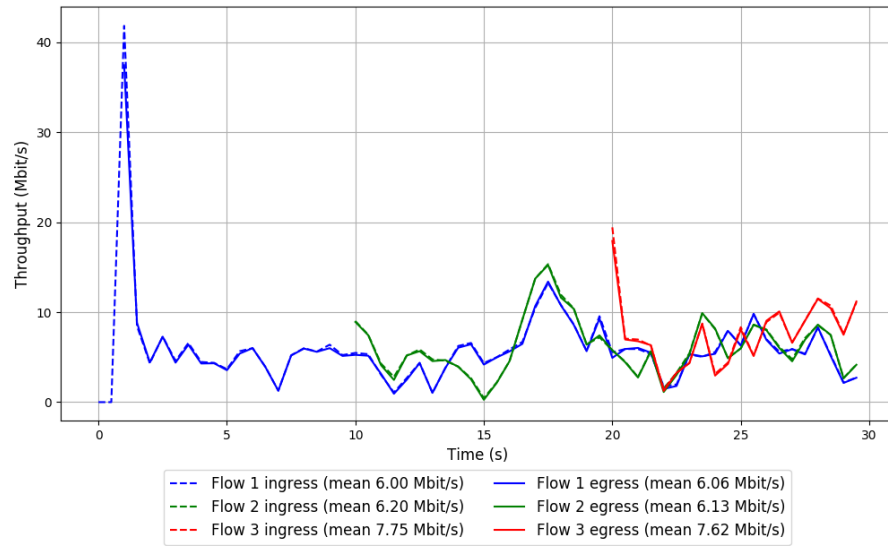
-- Flow 3:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 7.699 ms

Loss rate: 1.73%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-12 09:14:01

End at: 2017-10-12 09:14:31

Local clock offset: 4.575 ms

Remote clock offset: 4.921 ms

Below is generated by plot.py at 2017-10-12 09:52:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 6.935 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 6.487 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 7.569 ms

Loss rate: 3.39%

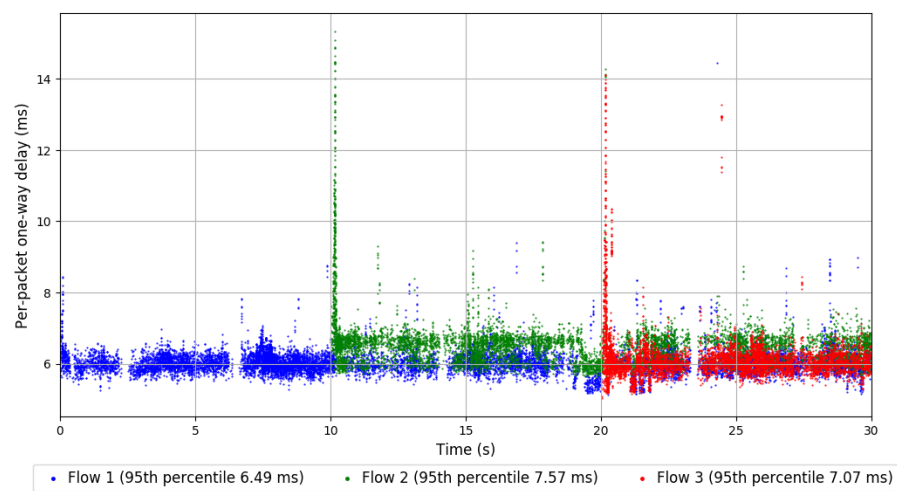
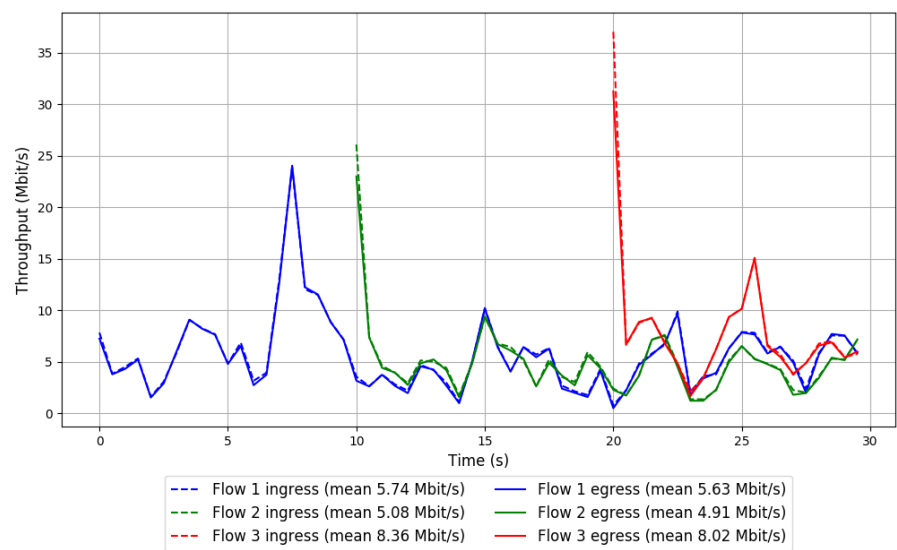
-- Flow 3:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 7.074 ms

Loss rate: 4.08%

Run 10: Report of TCP Cubic — Data Link

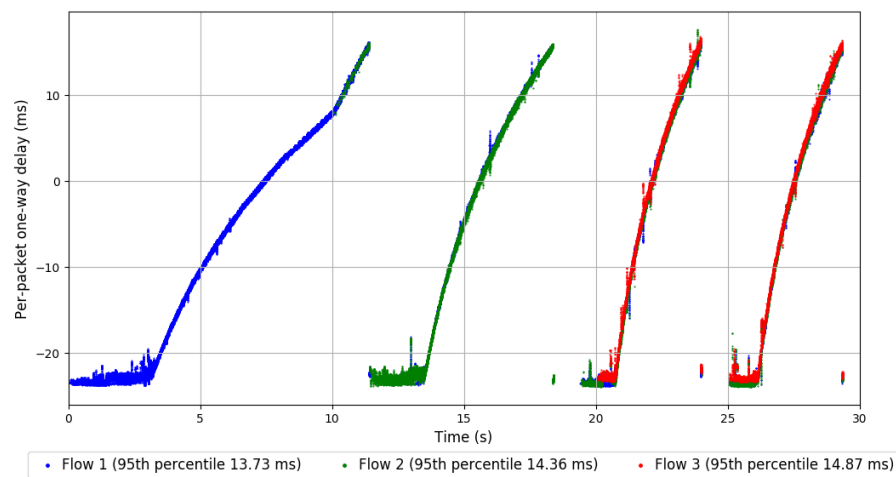
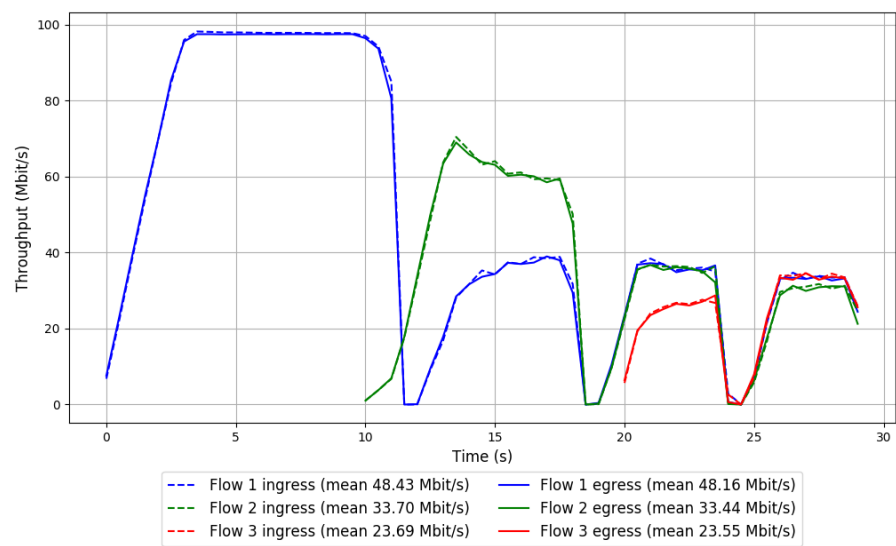


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-12 06:49:56
End at: 2017-10-12 06:50:26
Local clock offset: 3.025 ms
Remote clock offset: -13.009 ms

# Below is generated by plot.py at 2017-10-12 09:52:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 14.135 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 13.726 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 14.356 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 14.866 ms
Loss rate: 0.58%
```

Run 1: Report of LEDBAT — Data Link

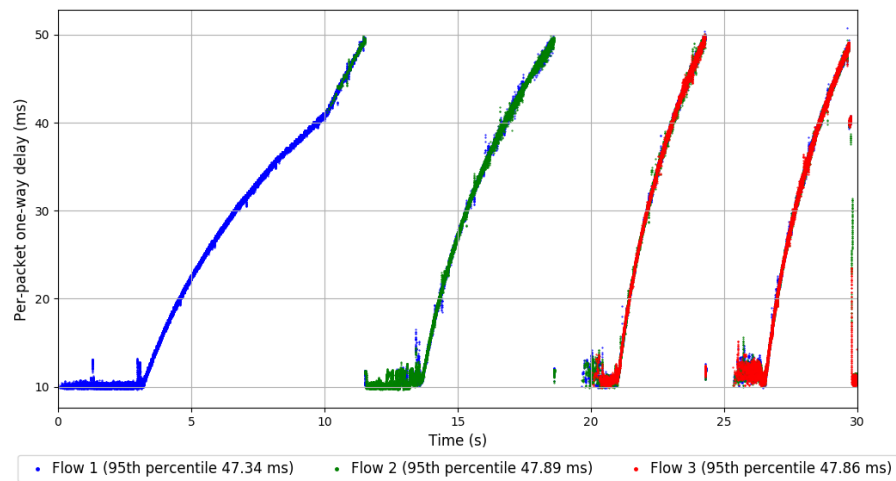
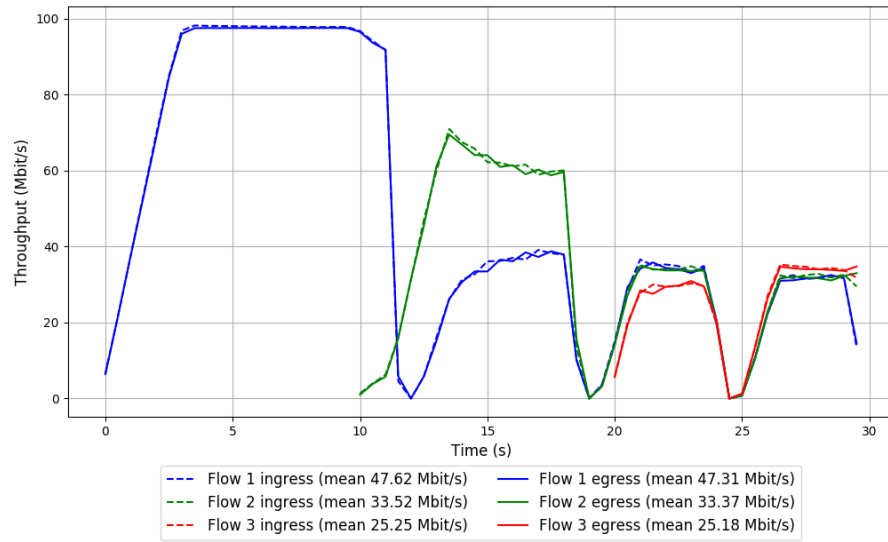


Run 2: Statistics of LEDBAT

Start at: 2017-10-12 07:08:16
End at: 2017-10-12 07:08:46
Local clock offset: 0.916 ms
Remote clock offset: 21.644 ms

Below is generated by plot.py at 2017-10-12 09:52:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 47.609 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 47.335 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 47.893 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 47.856 ms
Loss rate: 0.27%

Run 2: Report of LEDBAT — Data Link

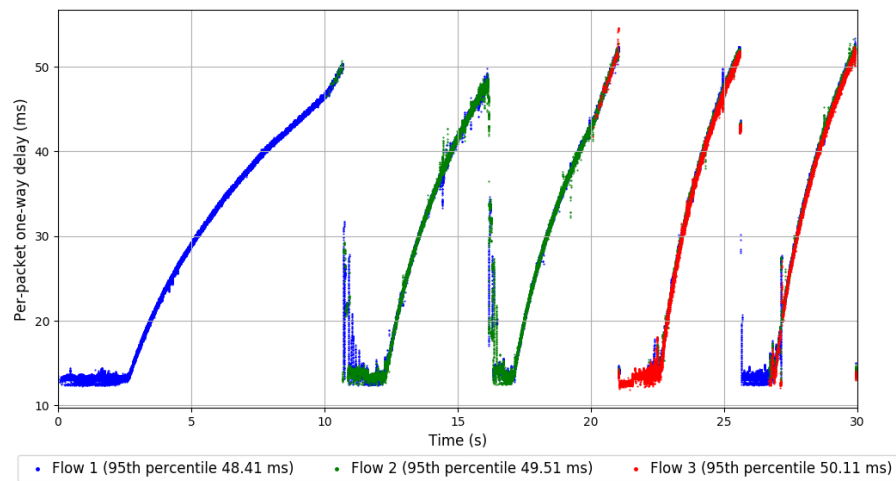
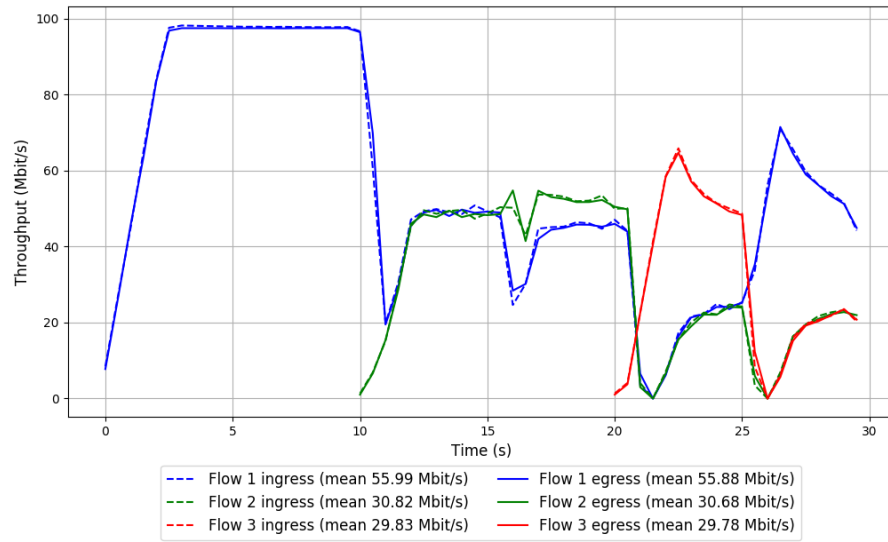


Run 3: Statistics of LEDBAT

Start at: 2017-10-12 07:24:51
End at: 2017-10-12 07:25:21
Local clock offset: 0.785 ms
Remote clock offset: 21.305 ms

Below is generated by plot.py at 2017-10-12 09:52:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.10 Mbit/s
95th percentile per-packet one-way delay: 49.039 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 48.407 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 49.513 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 50.108 ms
Loss rate: 0.45%

Run 3: Report of LEDBAT — Data Link

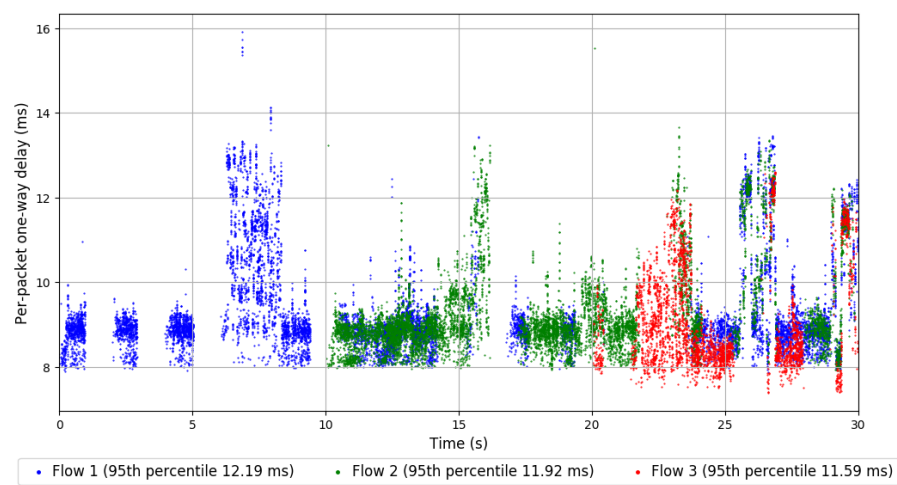
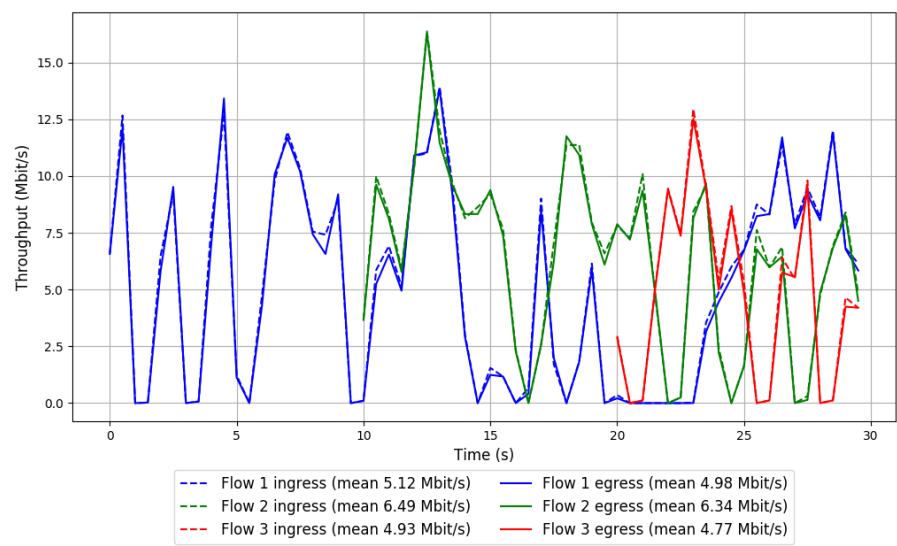


Run 4: Statistics of LEDBAT

Start at: 2017-10-12 07:41:26
End at: 2017-10-12 07:41:56
Local clock offset: 1.795 ms
Remote clock offset: 15.312 ms

Below is generated by plot.py at 2017-10-12 09:52:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 12.043 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 12.191 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 11.924 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 11.586 ms
Loss rate: 3.29%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-10-12 07:59:55

End at: 2017-10-12 08:00:25

Local clock offset: 3.093 ms

Remote clock offset: 11.47 ms

Below is generated by plot.py at 2017-10-12 09:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 8.966 ms

Loss rate: 4.57%

-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 9.389 ms

Loss rate: 5.25%

-- Flow 2:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 8.693 ms

Loss rate: 3.69%

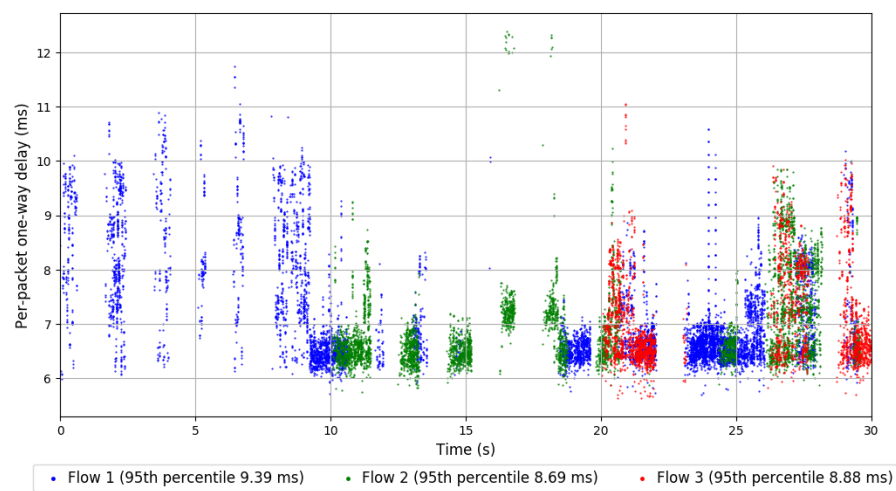
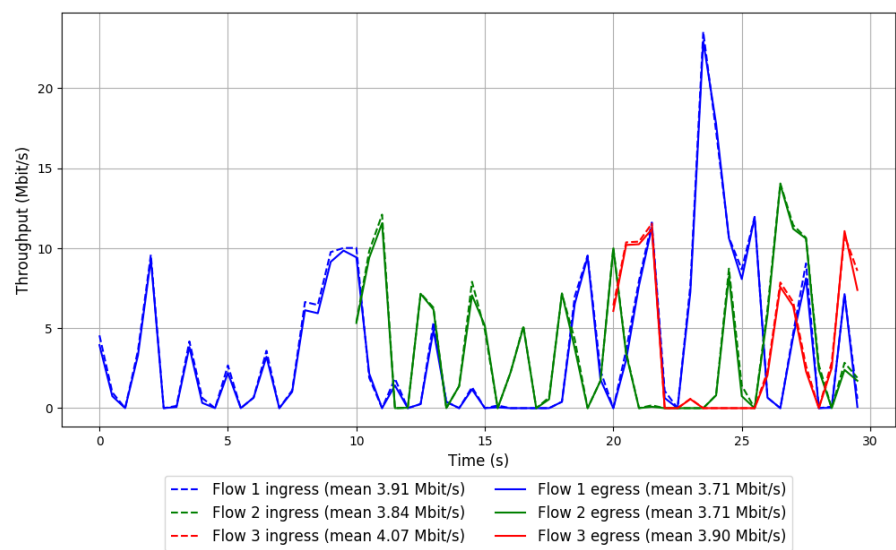
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 8.877 ms

Loss rate: 4.28%

Run 5: Report of LEDBAT — Data Link

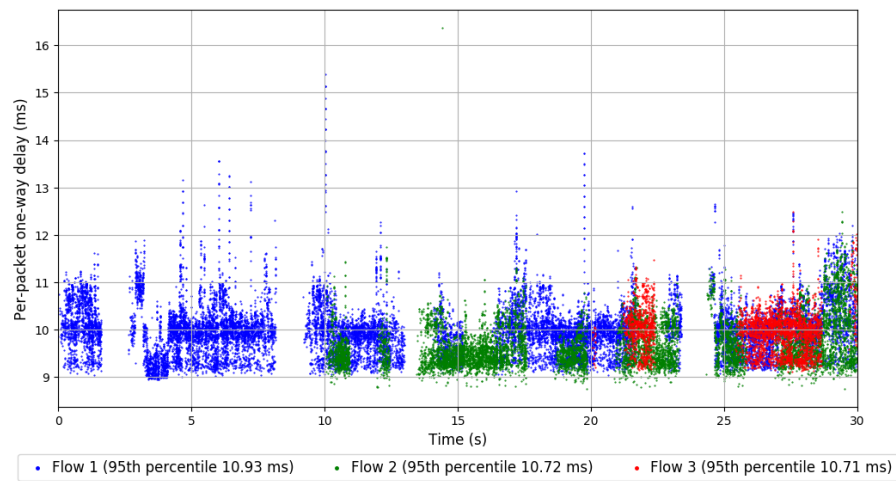
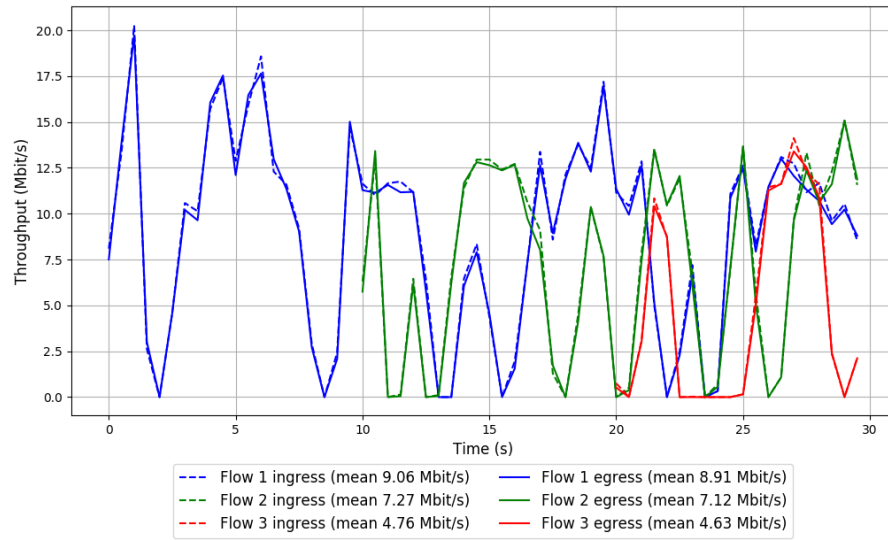


Run 6: Statistics of LEDBAT

Start at: 2017-10-12 08:18:36
End at: 2017-10-12 08:19:06
Local clock offset: 1.164 ms
Remote clock offset: 10.124 ms

Below is generated by plot.py at 2017-10-12 09:52:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 10.876 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 10.925 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 10.723 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 10.708 ms
Loss rate: 2.65%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-12 08:34:52

End at: 2017-10-12 08:35:22

Local clock offset: 1.269 ms

Remote clock offset: 4.895 ms

Below is generated by plot.py at 2017-10-12 09:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 7.407 ms

Loss rate: 6.56%

-- Flow 1:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 7.119 ms

Loss rate: 6.85%

-- Flow 2:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 7.675 ms

Loss rate: 7.32%

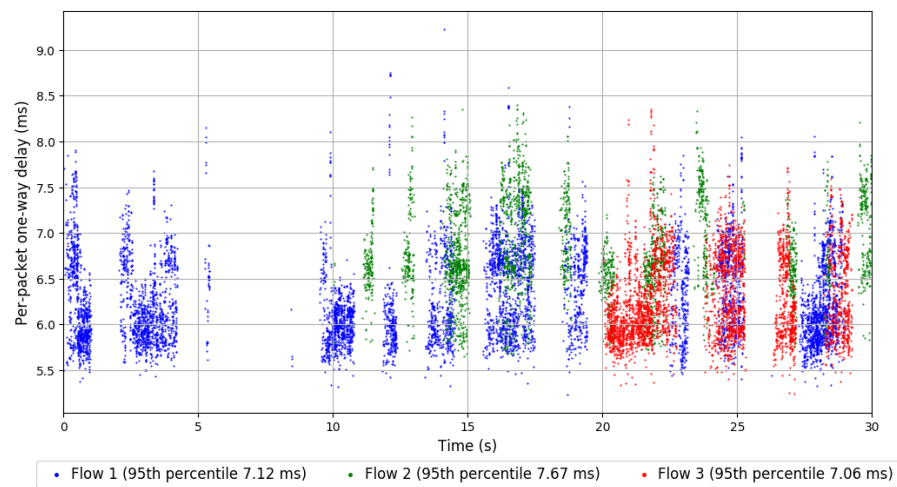
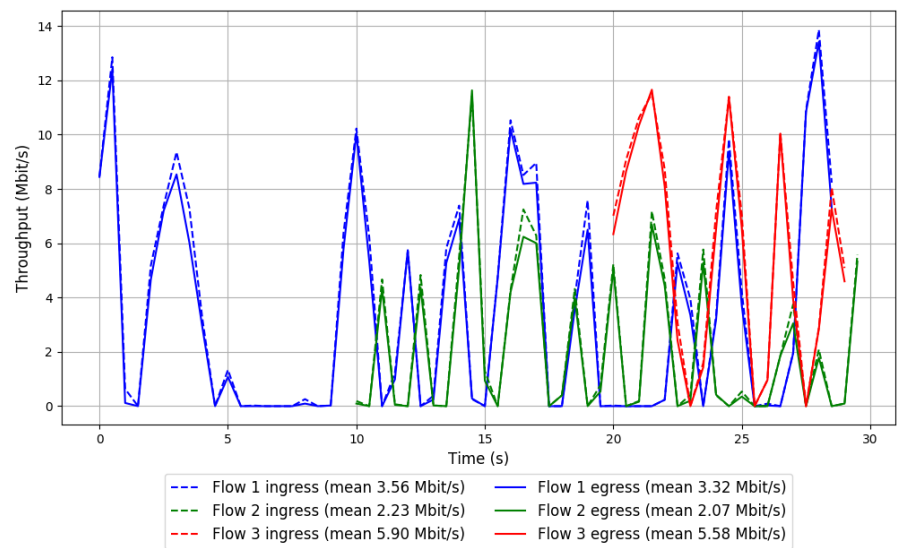
-- Flow 3:

Average throughput: 5.58 Mbit/s

95th percentile per-packet one-way delay: 7.063 ms

Loss rate: 5.39%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-12 08:51:09

End at: 2017-10-12 08:51:39

Local clock offset: 3.321 ms

Remote clock offset: 6.64 ms

Below is generated by plot.py at 2017-10-12 09:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 8.538 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 5.46 Mbit/s

95th percentile per-packet one-way delay: 8.561 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 8.391 ms

Loss rate: 2.77%

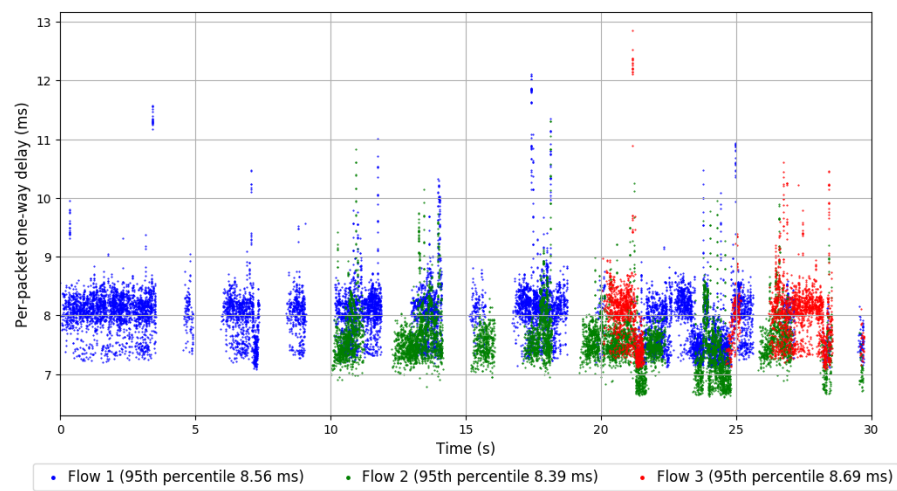
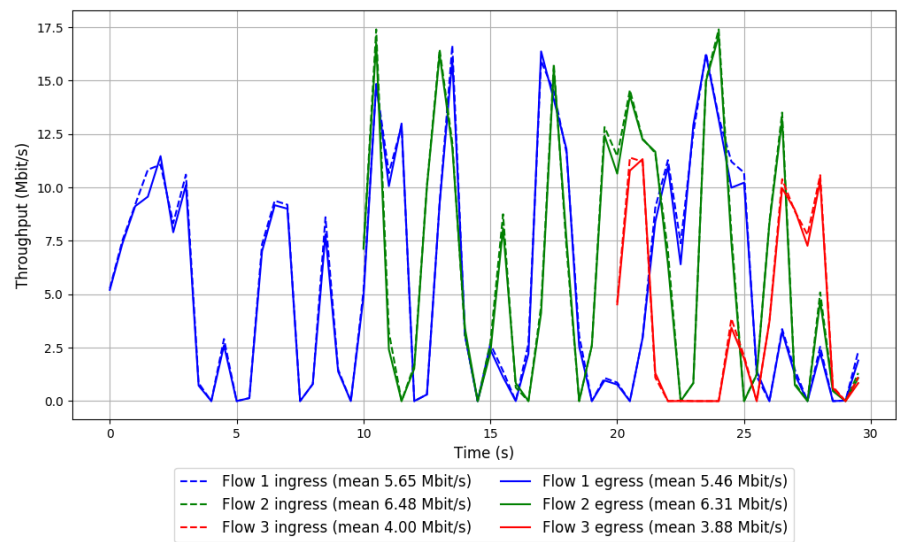
-- Flow 3:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 8.694 ms

Loss rate: 3.15%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-12 09:07:16

End at: 2017-10-12 09:07:46

Local clock offset: 2.186 ms

Remote clock offset: 4.56 ms

Below is generated by plot.py at 2017-10-12 09:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.64 Mbit/s

95th percentile per-packet one-way delay: 9.523 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 9.602 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 9.556 ms

Loss rate: 2.25%

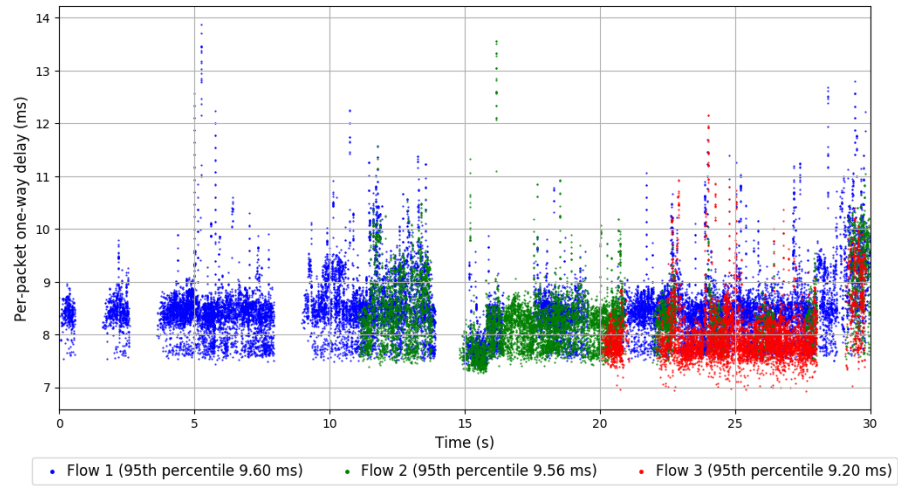
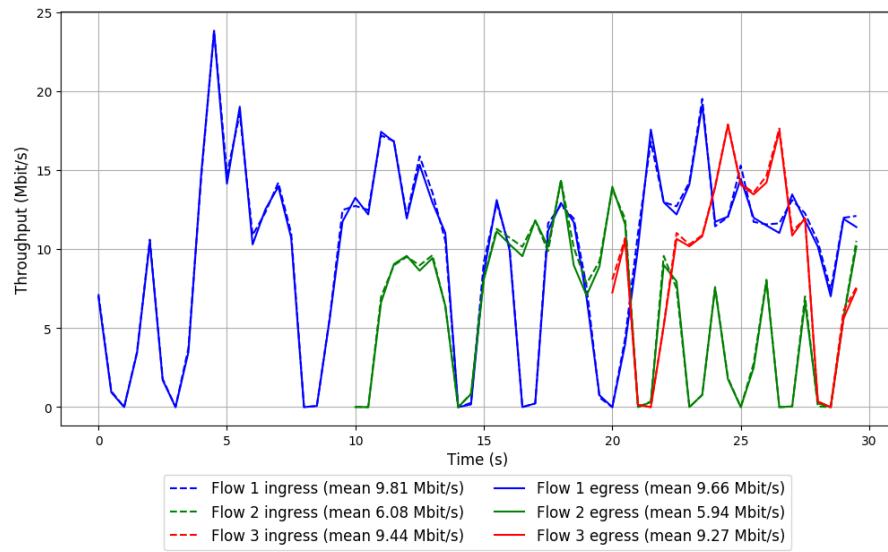
-- Flow 3:

Average throughput: 9.27 Mbit/s

95th percentile per-packet one-way delay: 9.200 ms

Loss rate: 1.77%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-12 09:23:31

End at: 2017-10-12 09:24:01

Local clock offset: 3.772 ms

Remote clock offset: 3.9 ms

Below is generated by plot.py at 2017-10-12 09:52:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 7.819 ms

Loss rate: 5.94%

-- Flow 1:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 7.807 ms

Loss rate: 5.36%

-- Flow 2:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 7.862 ms

Loss rate: 6.46%

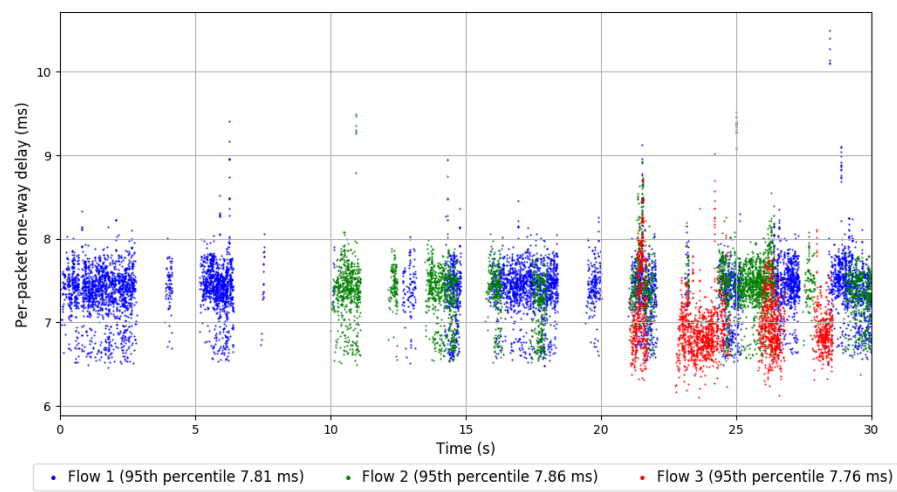
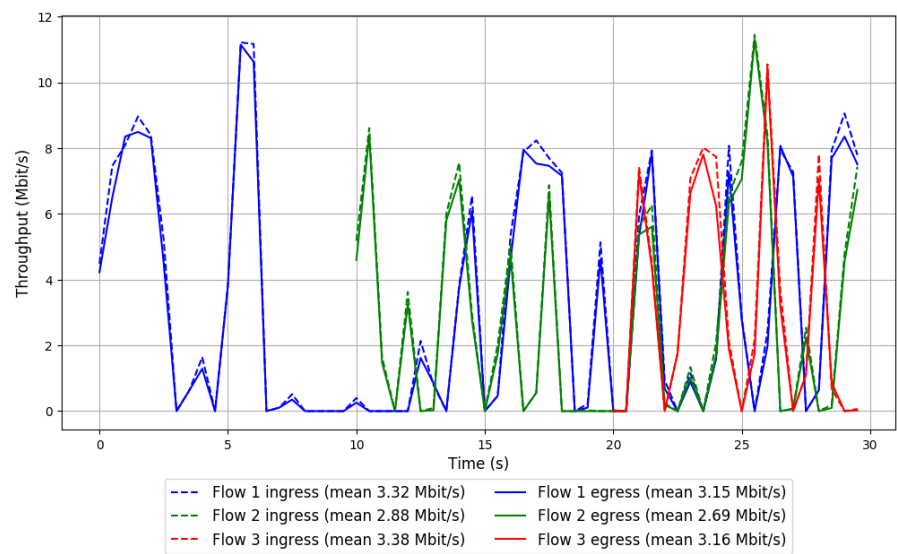
-- Flow 3:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 7.763 ms

Loss rate: 6.82%

Run 10: Report of LEDBAT — Data Link

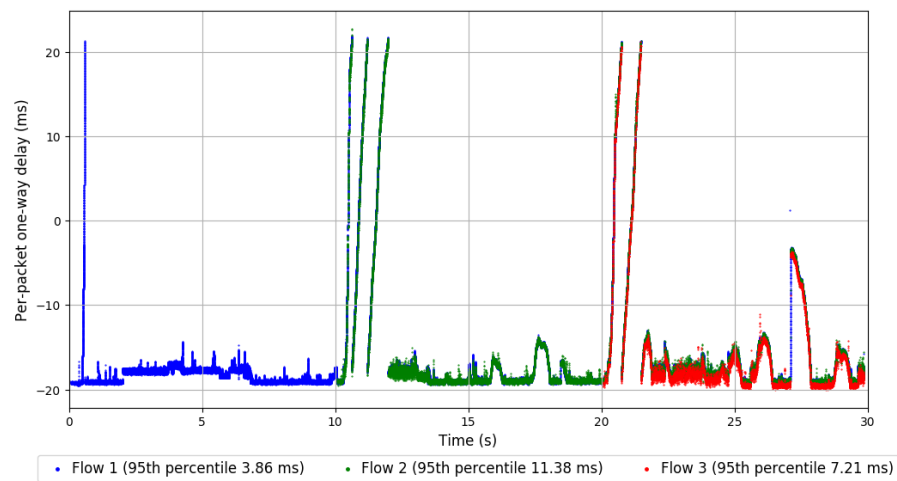
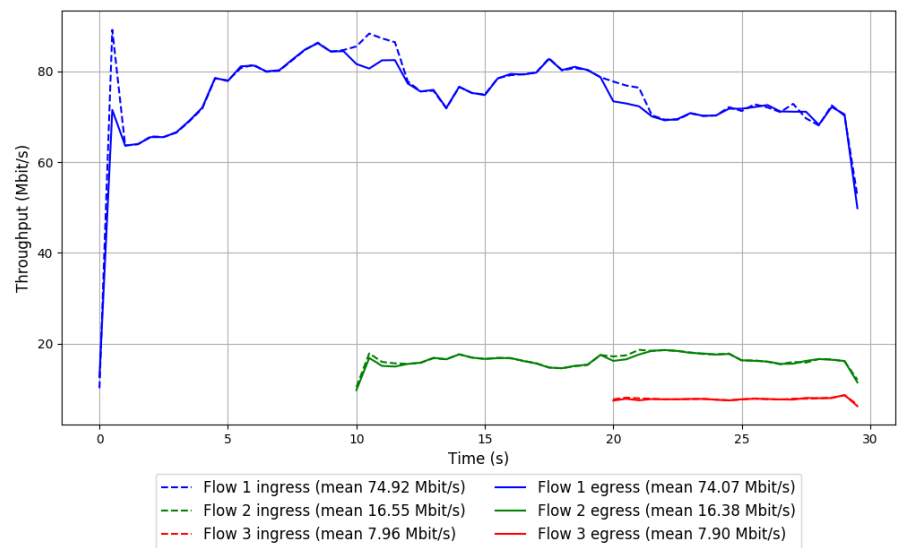


```
Run 1: Statistics of PCC

Start at: 2017-10-12 06:36:22
End at: 2017-10-12 06:36:52
Local clock offset: -1.24 ms
Remote clock offset: -16.466 ms

# Below is generated by plot.py at 2017-10-12 09:53:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 5.529 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 3.857 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 16.38 Mbit/s
95th percentile per-packet one-way delay: 11.378 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 7.210 ms
Loss rate: 0.82%
```

Run 1: Report of PCC — Data Link

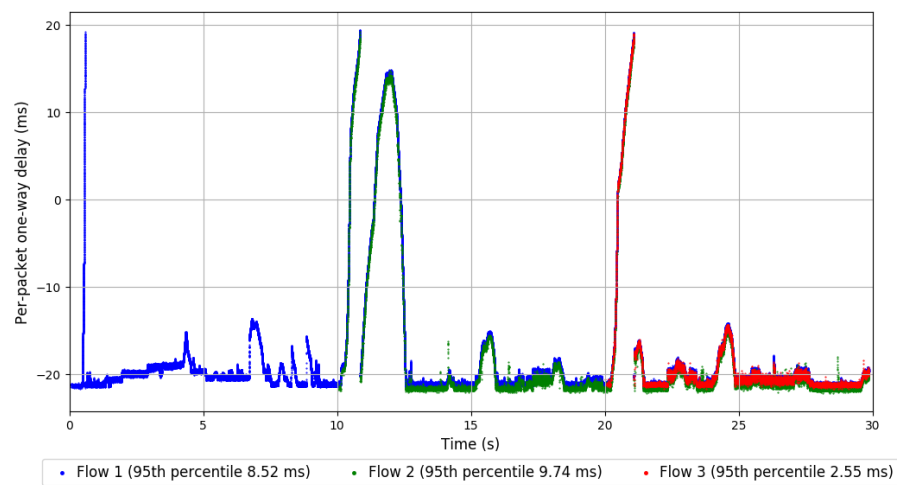
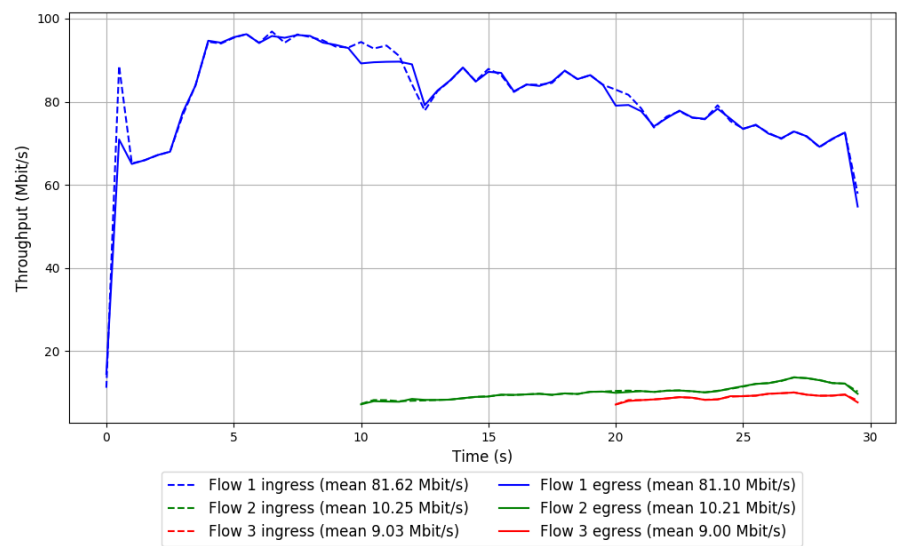


Run 2: Statistics of PCC

Start at: 2017-10-12 06:53:42
End at: 2017-10-12 06:54:12
Local clock offset: 1.238 ms
Remote clock offset: -12.19 ms

Below is generated by plot.py at 2017-10-12 09:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 8.505 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 81.10 Mbit/s
95th percentile per-packet one-way delay: 8.521 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 9.745 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 2.553 ms
Loss rate: 0.35%

Run 2: Report of PCC — Data Link

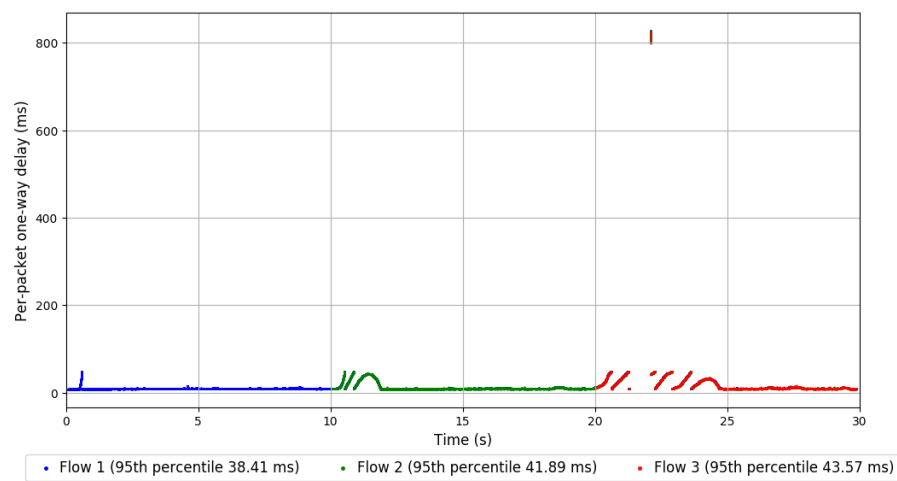
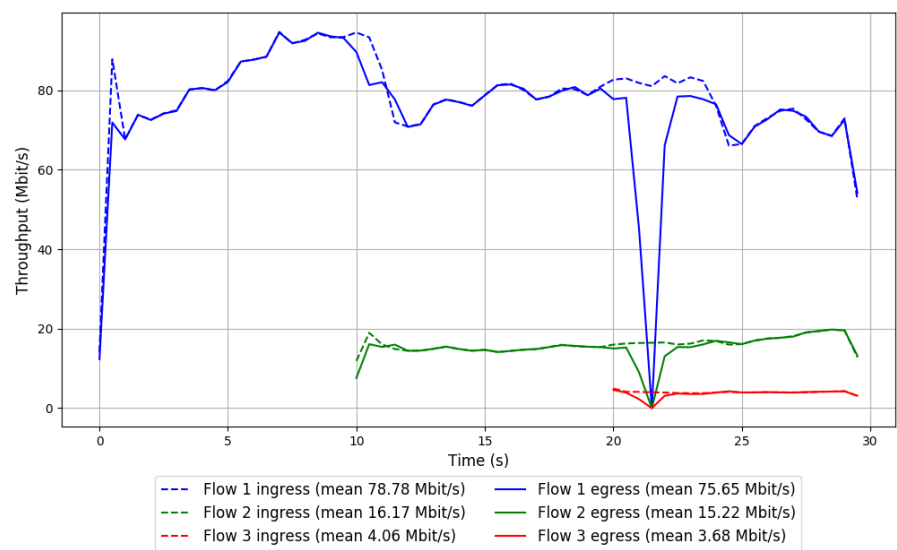


Run 3: Statistics of PCC

Start at: 2017-10-12 07:11:50
End at: 2017-10-12 07:12:20
Local clock offset: 1.916 ms
Remote clock offset: 20.883 ms

Below is generated by plot.py at 2017-10-12 09:53:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 39.170 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 38.411 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 41.890 ms
Loss rate: 5.87%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 43.567 ms
Loss rate: 9.43%

Run 3: Report of PCC — Data Link

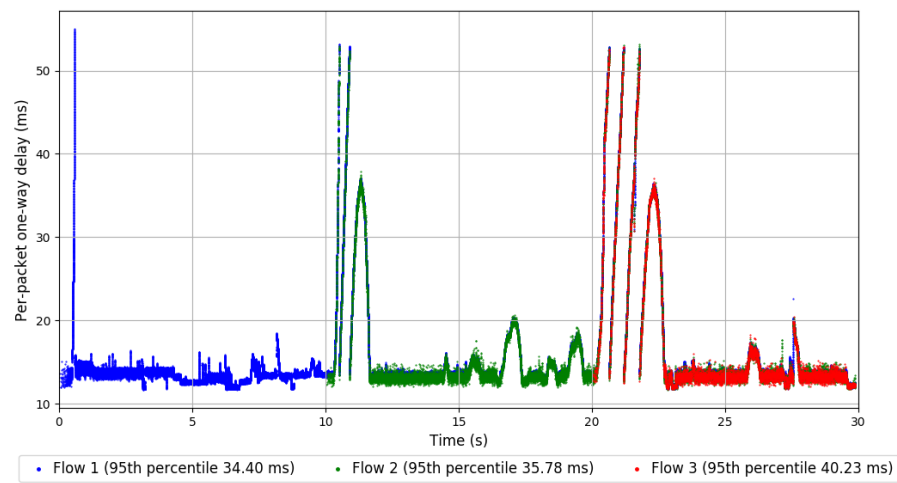
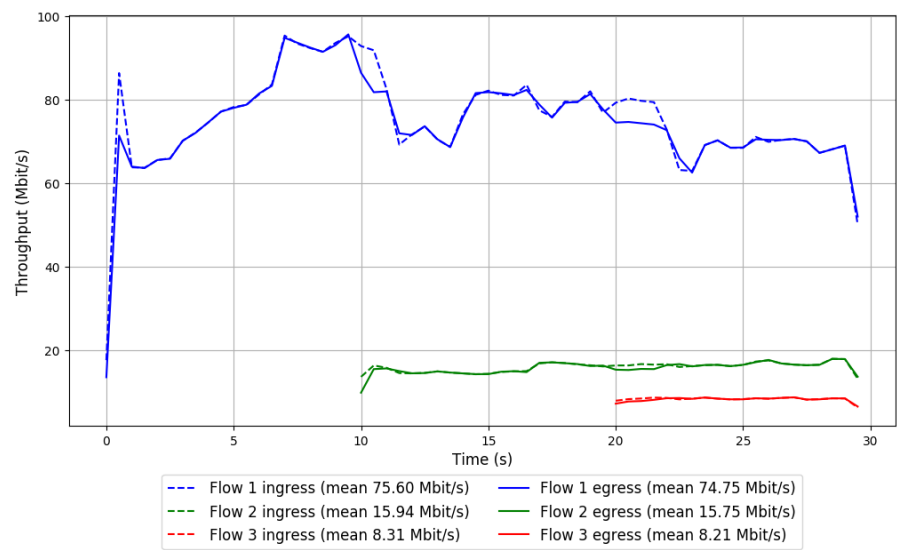


Run 4: Statistics of PCC

Start at: 2017-10-12 07:28:21
End at: 2017-10-12 07:28:51
Local clock offset: 1.054 ms
Remote clock offset: 20.869 ms

Below is generated by plot.py at 2017-10-12 09:53:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 34.825 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 34.398 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 15.75 Mbit/s
95th percentile per-packet one-way delay: 35.776 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 40.232 ms
Loss rate: 1.20%

Run 4: Report of PCC — Data Link

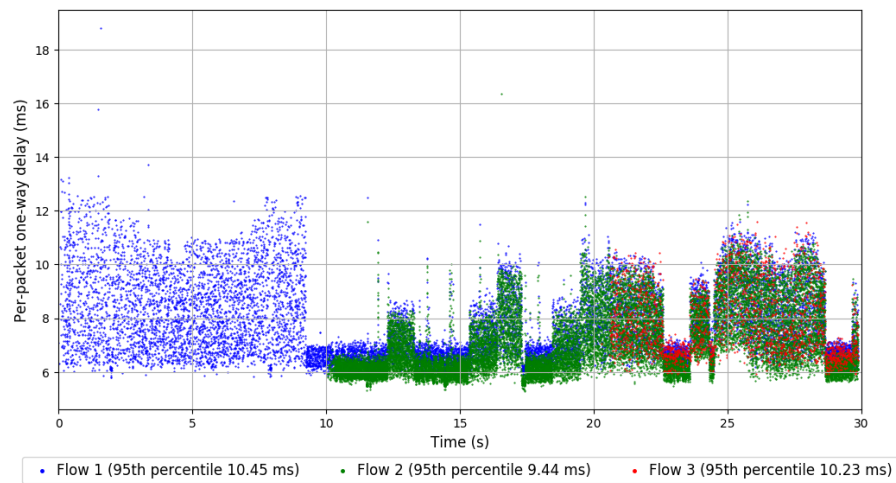
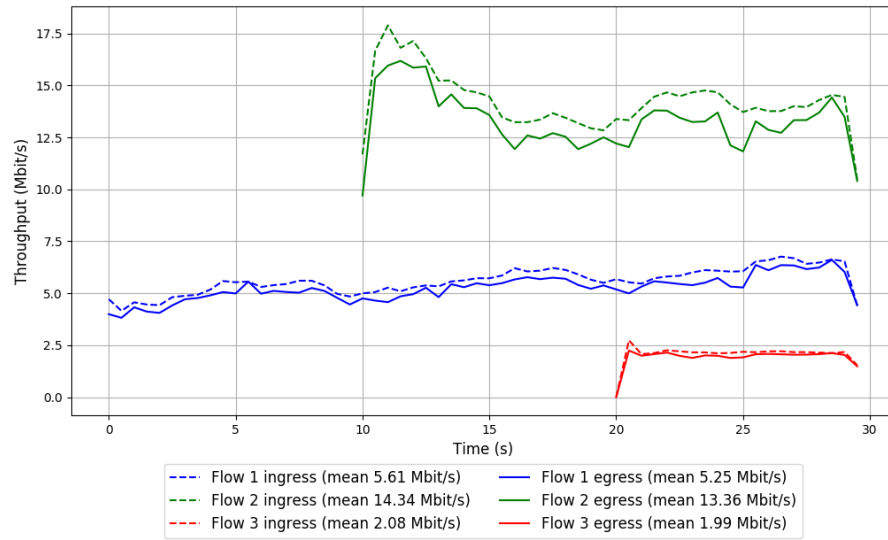


Run 5: Statistics of PCC

Start at: 2017-10-12 07:45:22
End at: 2017-10-12 07:45:52
Local clock offset: 3.923 ms
Remote clock offset: 14.758 ms

Below is generated by plot.py at 2017-10-12 09:53:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 9.918 ms
Loss rate: 6.68%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 10.452 ms
Loss rate: 6.40%
-- Flow 2:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 9.439 ms
Loss rate: 6.82%
-- Flow 3:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 10.228 ms
Loss rate: 7.00%

Run 5: Report of PCC — Data Link

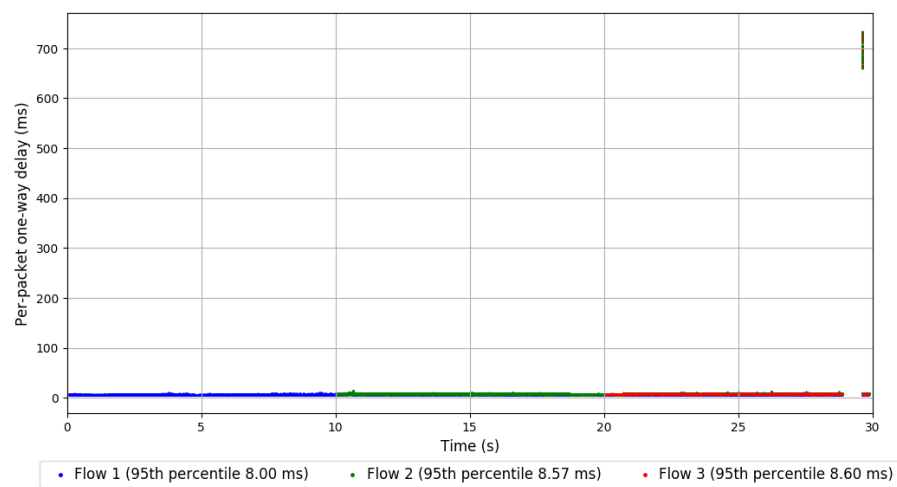
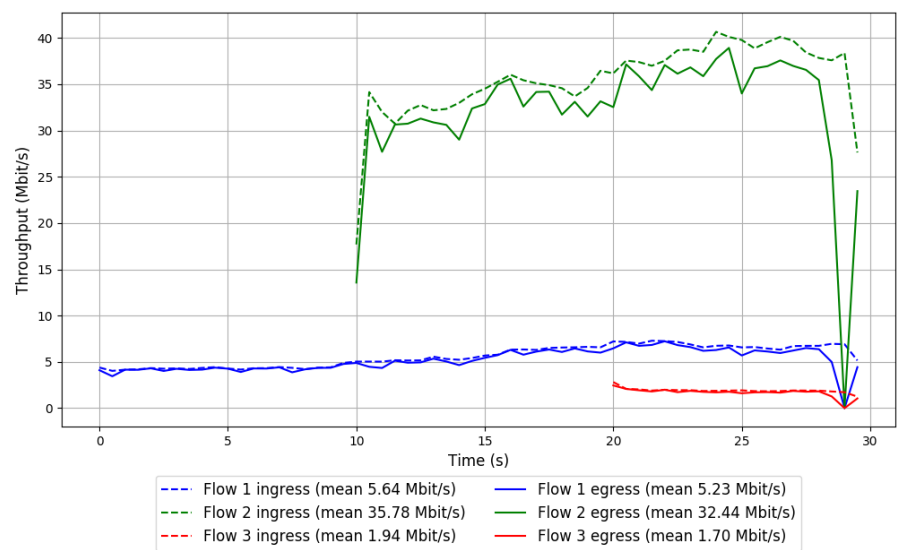


Run 6: Statistics of PCC

Start at: 2017-10-12 08:03:13
End at: 2017-10-12 08:03:43
Local clock offset: 3.155 ms
Remote clock offset: 10.954 ms

Below is generated by plot.py at 2017-10-12 09:53:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 8.529 ms
Loss rate: 9.01%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 8.004 ms
Loss rate: 7.31%
-- Flow 2:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 8.567 ms
Loss rate: 9.33%
-- Flow 3:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 8.603 ms
Loss rate: 12.20%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-12 08:21:56

End at: 2017-10-12 08:22:26

Local clock offset: 0.705 ms

Remote clock offset: 8.98 ms

Below is generated by plot.py at 2017-10-12 09:53:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 11.369 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 11.389 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 11.412 ms

Loss rate: 2.84%

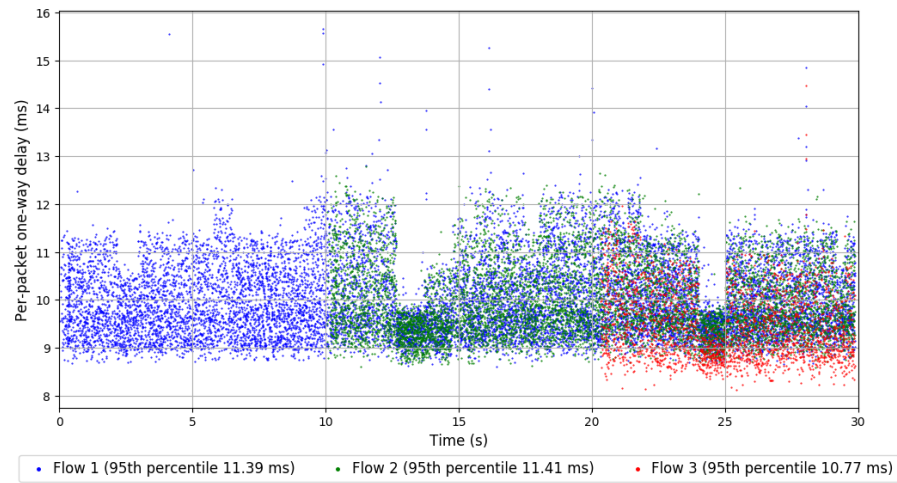
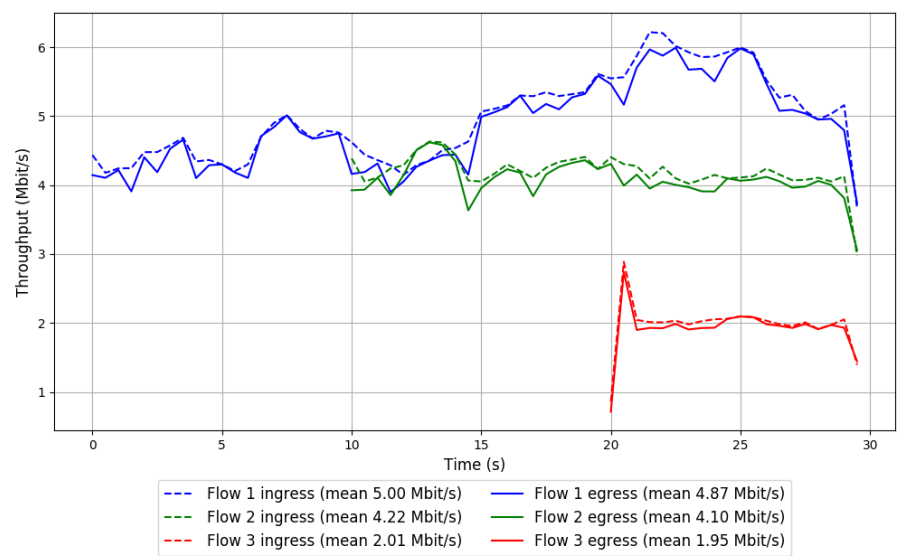
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 10.769 ms

Loss rate: 2.92%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-12 08:38:11

End at: 2017-10-12 08:38:41

Local clock offset: 0.603 ms

Remote clock offset: 7.973 ms

Below is generated by plot.py at 2017-10-12 09:53:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 10.795 ms

Loss rate: 10.32%

-- Flow 1:

Average throughput: 59.92 Mbit/s

95th percentile per-packet one-way delay: 10.800 ms

Loss rate: 10.32%

-- Flow 2:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 10.622 ms

Loss rate: 10.79%

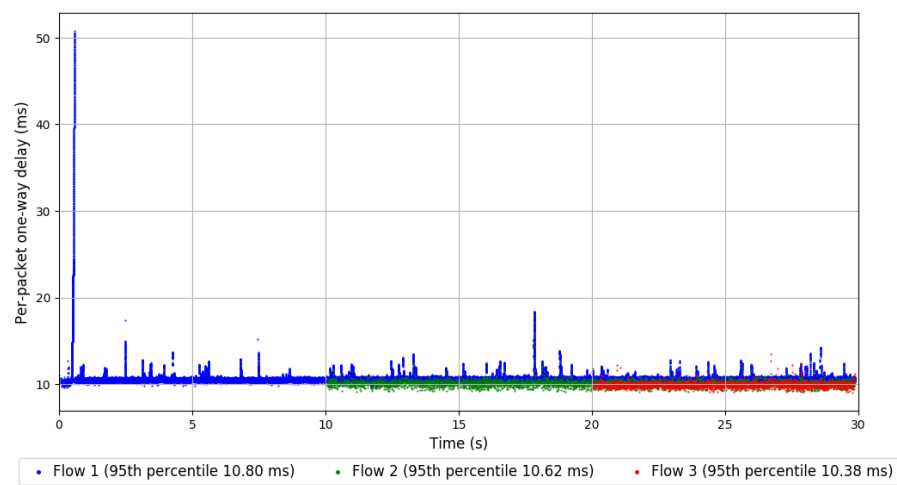
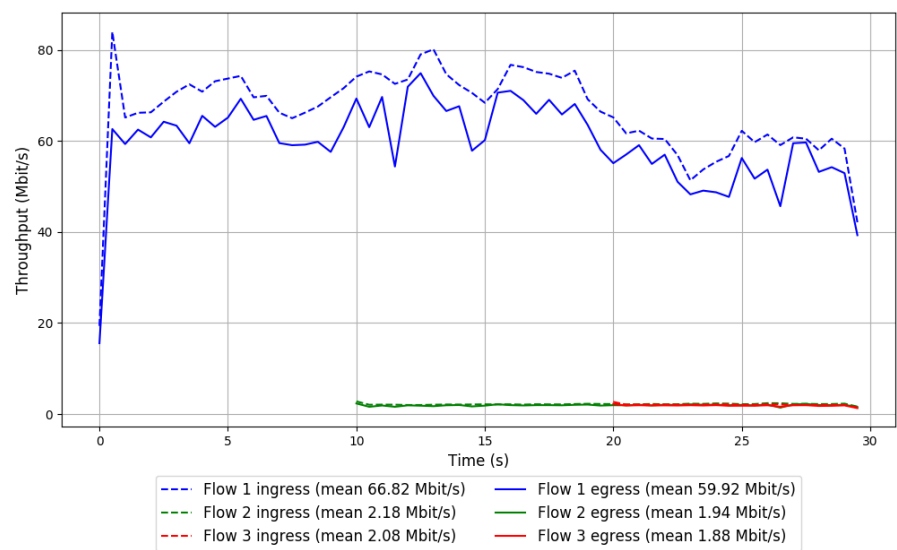
-- Flow 3:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 10.381 ms

Loss rate: 9.80%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-12 08:54:28

End at: 2017-10-12 08:54:58

Local clock offset: 1.93 ms

Remote clock offset: 6.32 ms

Below is generated by plot.py at 2017-10-12 09:53:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 10.725 ms

Loss rate: 9.13%

-- Flow 1:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 9.765 ms

Loss rate: 6.51%

-- Flow 2:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 10.803 ms

Loss rate: 9.39%

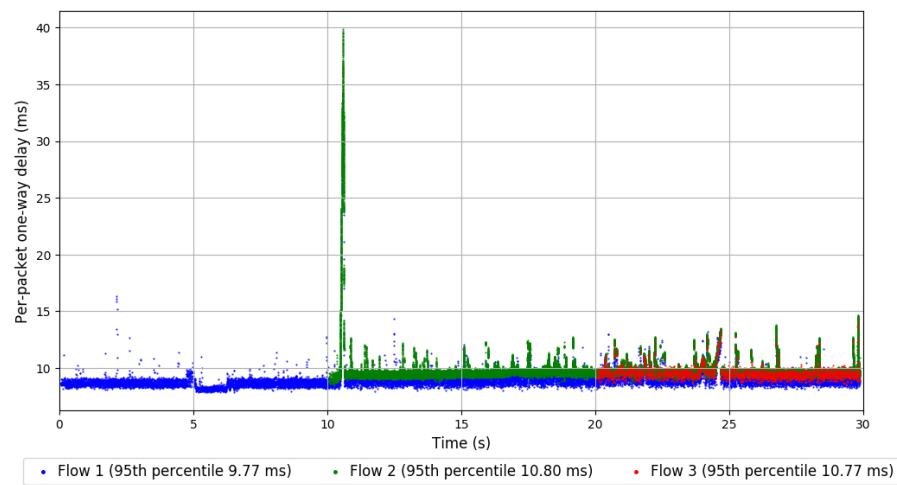
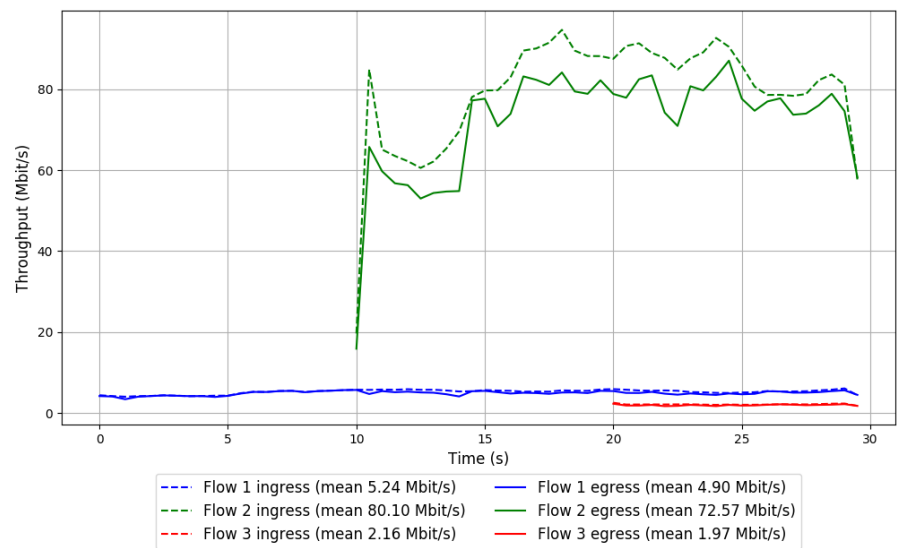
-- Flow 3:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 10.774 ms

Loss rate: 8.77%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-10-12 09:10:34

End at: 2017-10-12 09:11:04

Local clock offset: 2.205 ms

Remote clock offset: 5.552 ms

Below is generated by plot.py at 2017-10-12 09:53:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 9.761 ms

Loss rate: 10.41%

-- Flow 1:

Average throughput: 62.22 Mbit/s

95th percentile per-packet one-way delay: 9.776 ms

Loss rate: 10.36%

-- Flow 2:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 9.367 ms

Loss rate: 10.74%

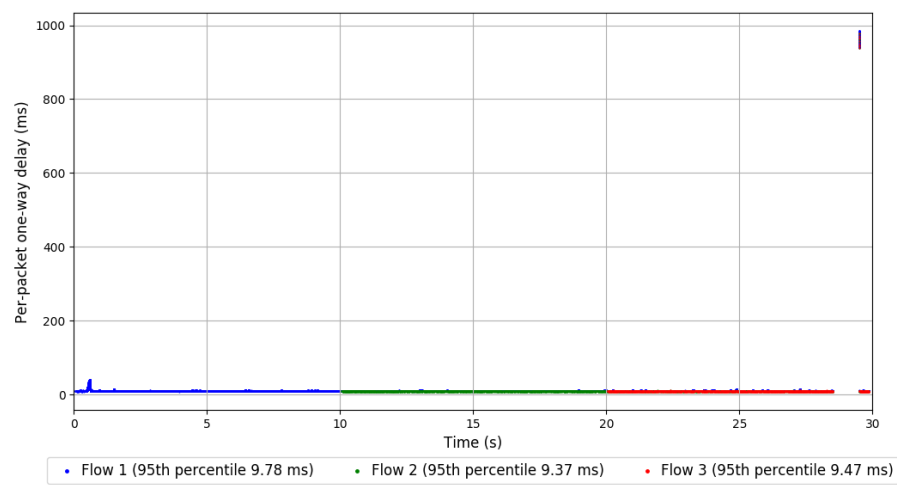
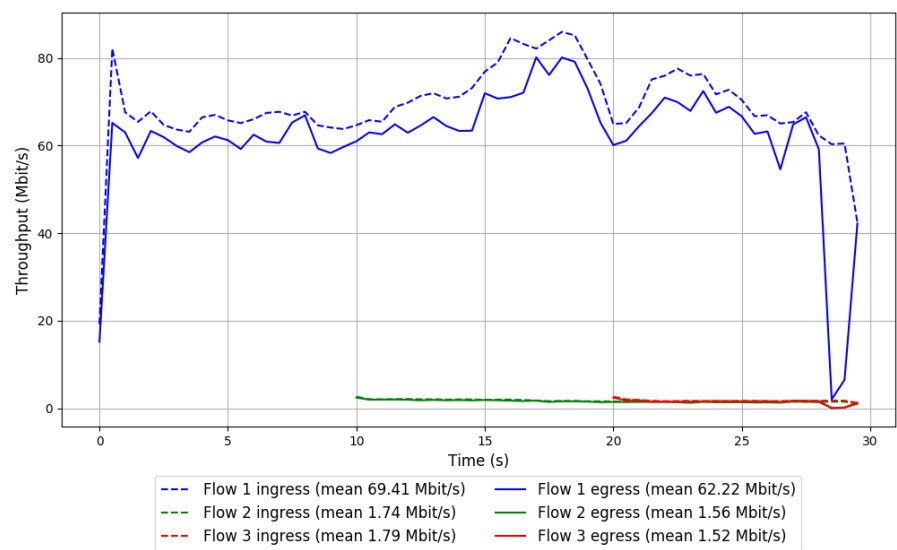
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 9.469 ms

Loss rate: 15.20%

Run 10: Report of PCC — Data Link

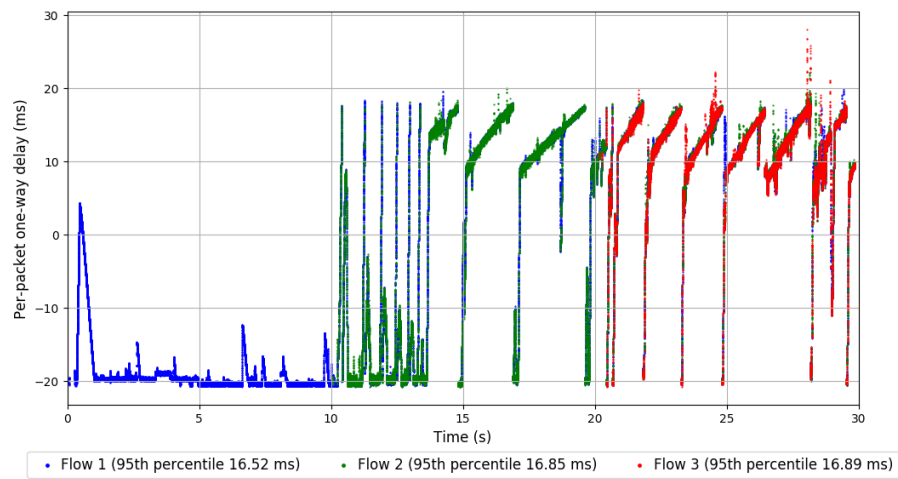
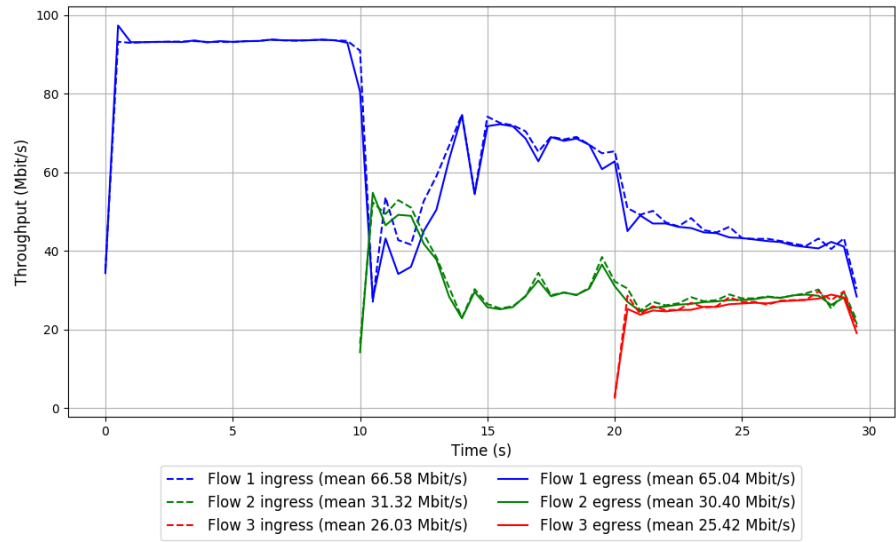


Run 1: Statistics of QUIC Cubic

Start at: 2017-10-12 06:48:44
End at: 2017-10-12 06:49:14
Local clock offset: 0.748 ms
Remote clock offset: -12.902 ms

Below is generated by plot.py at 2017-10-12 09:54:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 16.665 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 16.515 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 16.849 ms
Loss rate: 2.79%
-- Flow 3:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 16.886 ms
Loss rate: 2.39%

Run 1: Report of QUIC Cubic — Data Link

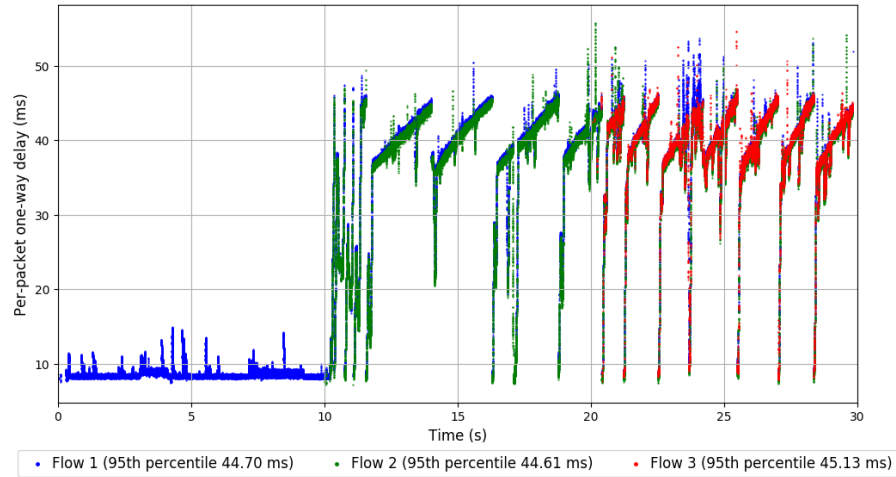
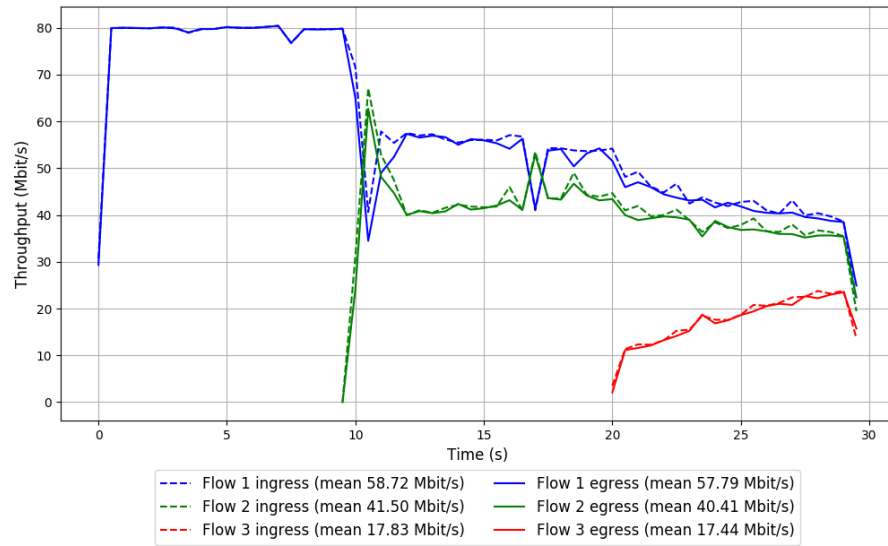


Run 2: Statistics of QUIC Cubic

Start at: 2017-10-12 07:07:04
End at: 2017-10-12 07:07:34
Local clock offset: 1.422 ms
Remote clock offset: 19.535 ms

Below is generated by plot.py at 2017-10-12 09:55:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 44.703 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 44.705 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 40.41 Mbit/s
95th percentile per-packet one-way delay: 44.613 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 17.44 Mbit/s
95th percentile per-packet one-way delay: 45.132 ms
Loss rate: 2.21%

Run 2: Report of QUIC Cubic — Data Link

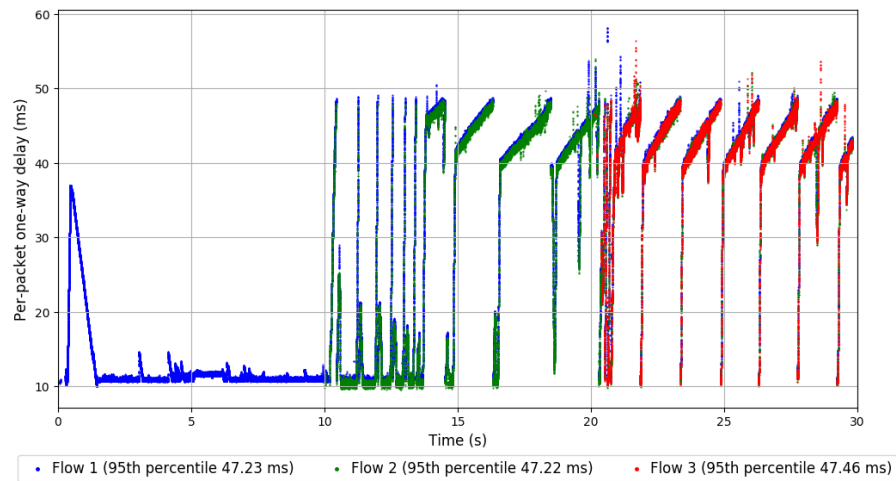
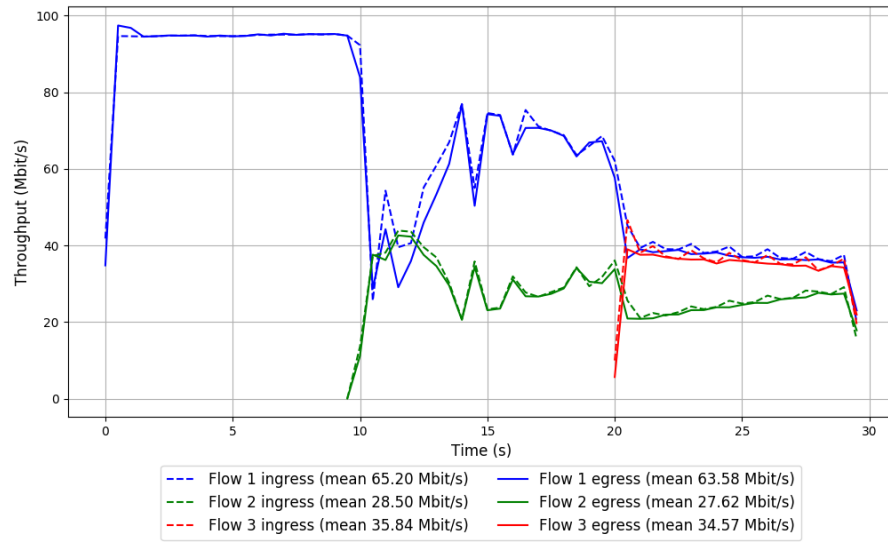


Run 3: Statistics of QUIC Cubic

Start at: 2017-10-12 07:23:39
End at: 2017-10-12 07:24:09
Local clock offset: 3.115 ms
Remote clock offset: 21.616 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 47.263 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 63.58 Mbit/s
95th percentile per-packet one-way delay: 47.232 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 47.218 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 47.459 ms
Loss rate: 3.57%

Run 3: Report of QUIC Cubic — Data Link

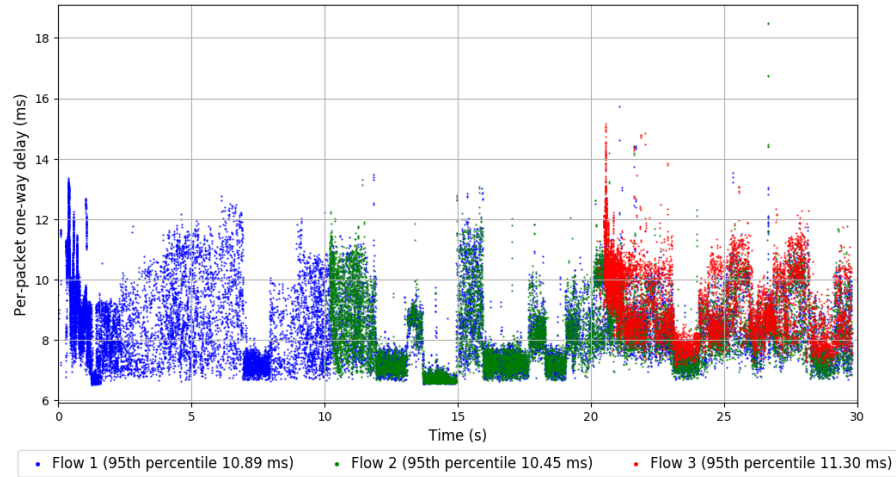
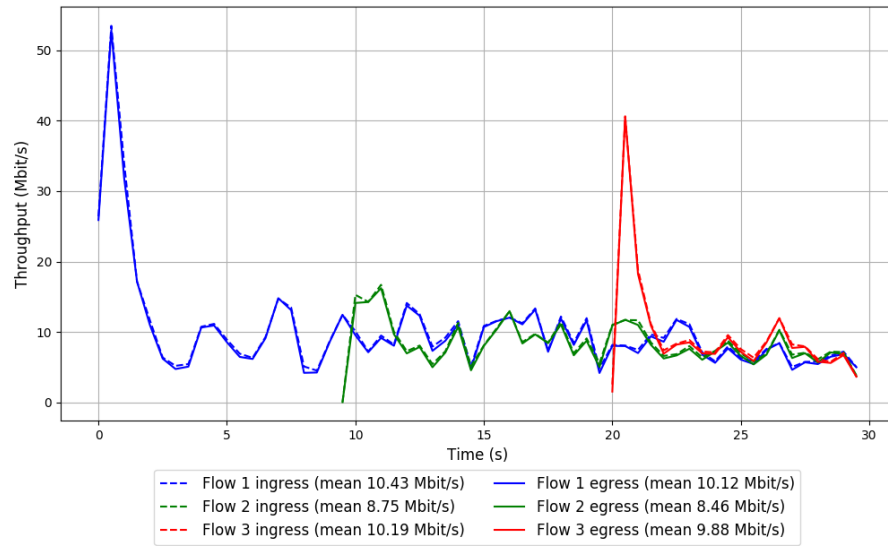


Run 4: Statistics of QUIC Cubic

Start at: 2017-10-12 07:40:07
End at: 2017-10-12 07:40:37
Local clock offset: 2.576 ms
Remote clock offset: 15.501 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 10.856 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 10.888 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 10.448 ms
Loss rate: 3.33%
-- Flow 3:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 11.303 ms
Loss rate: 3.06%

Run 4: Report of QUIC Cubic — Data Link

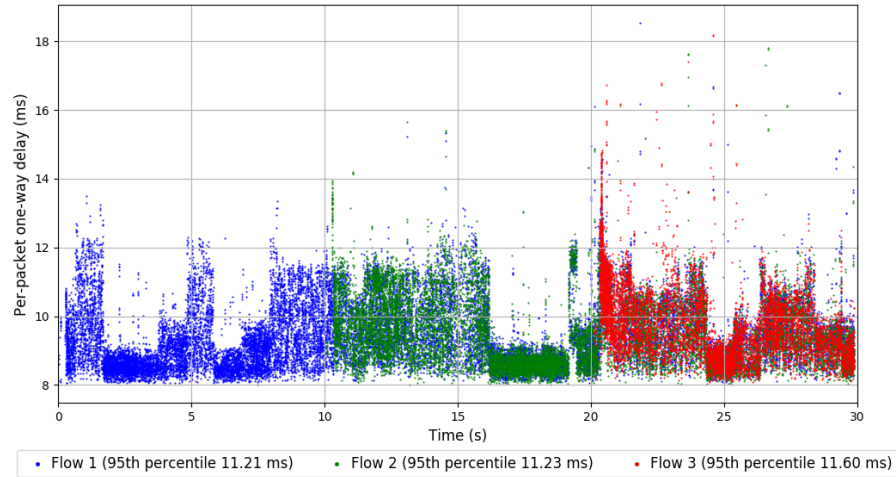
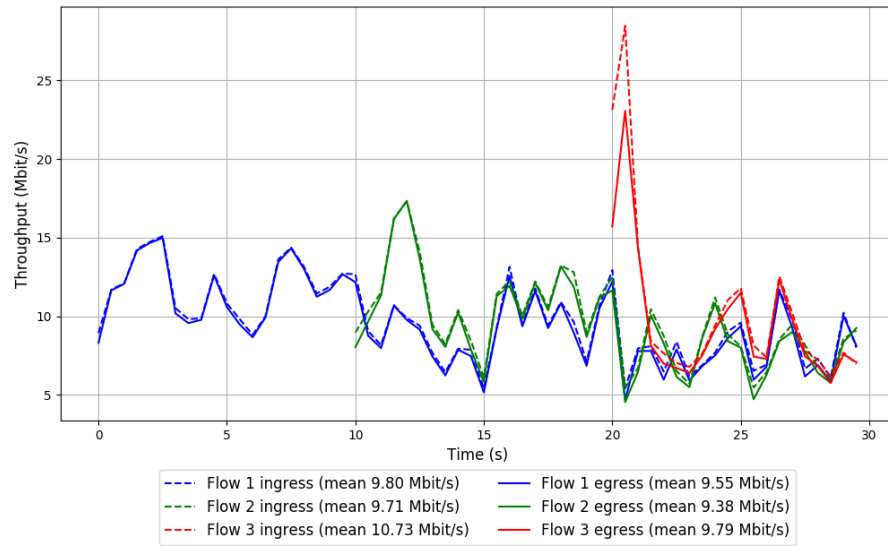


Run 5: Statistics of QUIC Cubic

Start at: 2017-10-12 07:58:48
End at: 2017-10-12 07:59:18
Local clock offset: 1.154 ms
Remote clock offset: 12.115 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.99 Mbit/s
95th percentile per-packet one-way delay: 11.279 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 11.214 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 11.234 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 11.602 ms
Loss rate: 8.72%

Run 5: Report of QUIC Cubic — Data Link

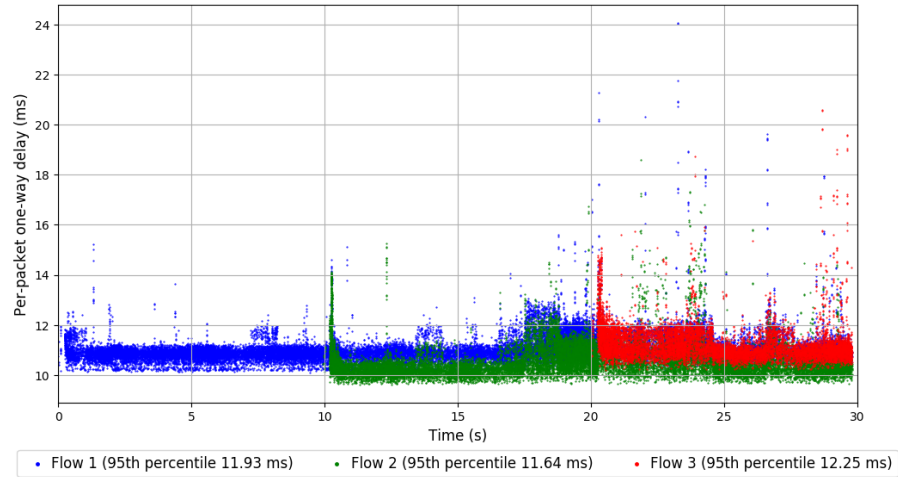
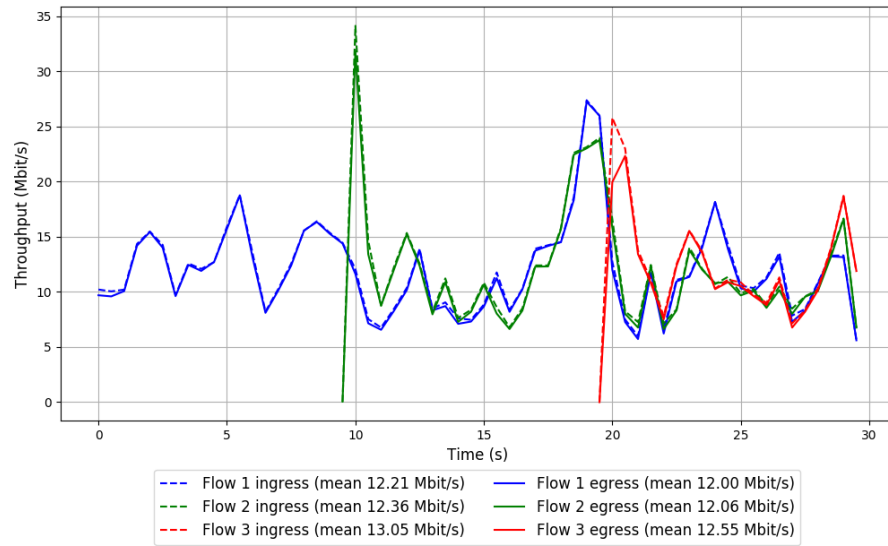


Run 6: Statistics of QUIC Cubic

Start at: 2017-10-12 08:17:29
End at: 2017-10-12 08:17:59
Local clock offset: 0.481 ms
Remote clock offset: 10.674 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 11.943 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 11.925 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 11.640 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 12.254 ms
Loss rate: 3.83%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-12 08:33:45

End at: 2017-10-12 08:34:15

Local clock offset: 3.191 ms

Remote clock offset: 8.151 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.62 Mbit/s

95th percentile per-packet one-way delay: 7.945 ms

Loss rate: 4.95%

-- Flow 1:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 7.424 ms

Loss rate: 4.90%

-- Flow 2:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 8.043 ms

Loss rate: 4.91%

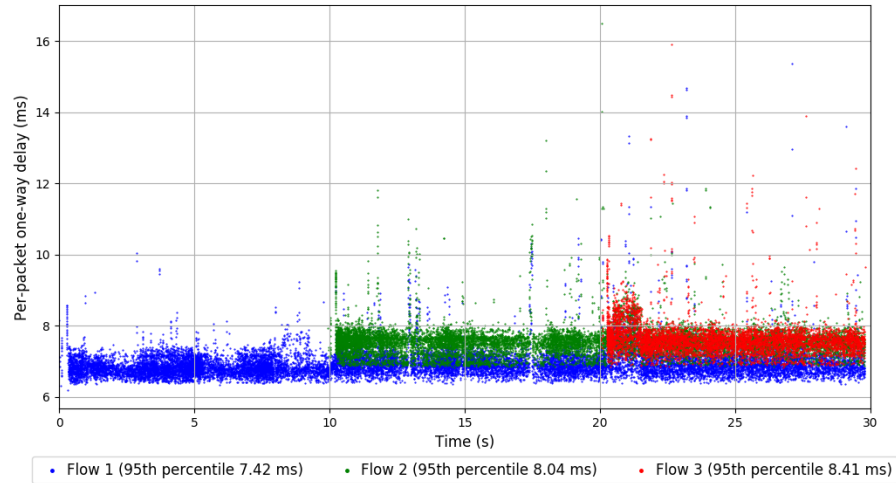
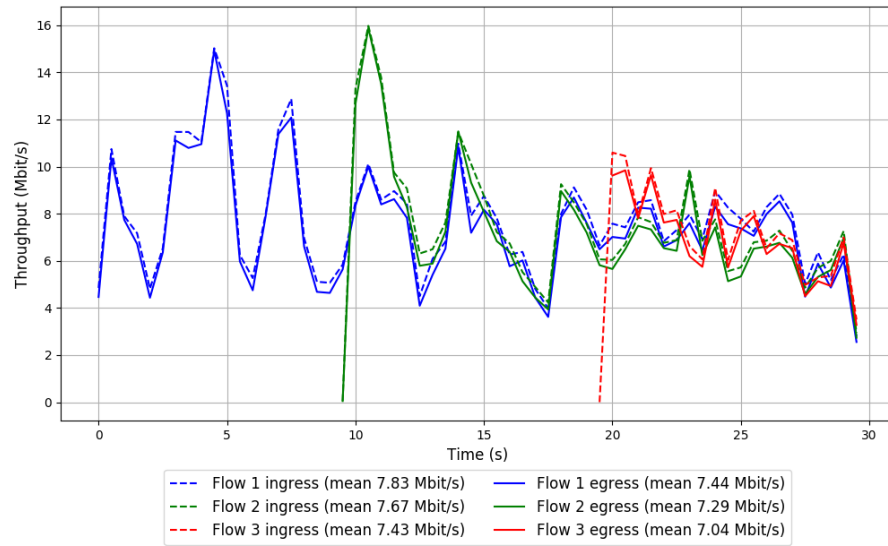
-- Flow 3:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 8.407 ms

Loss rate: 5.19%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-12 08:50:02

End at: 2017-10-12 08:50:32

Local clock offset: 1.375 ms

Remote clock offset: 6.138 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 9.540 ms

Loss rate: 3.80%

-- Flow 1:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 9.534 ms

Loss rate: 3.52%

-- Flow 2:

Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 9.072 ms

Loss rate: 3.84%

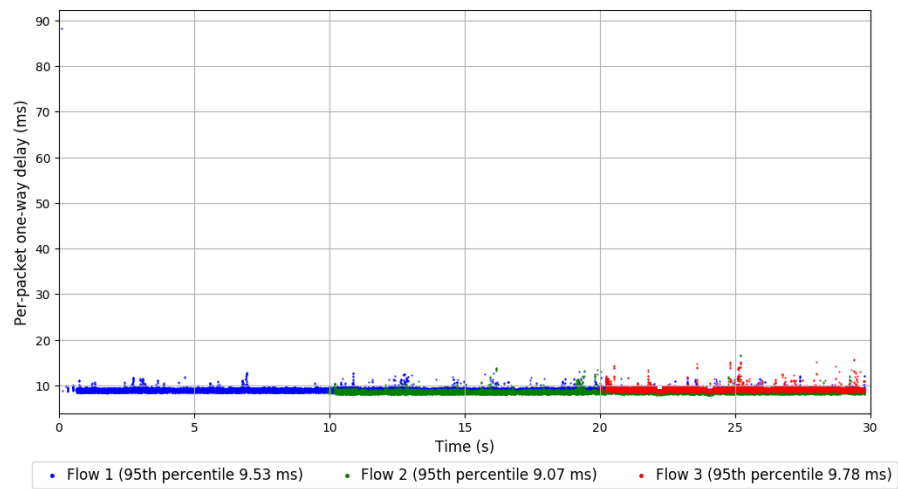
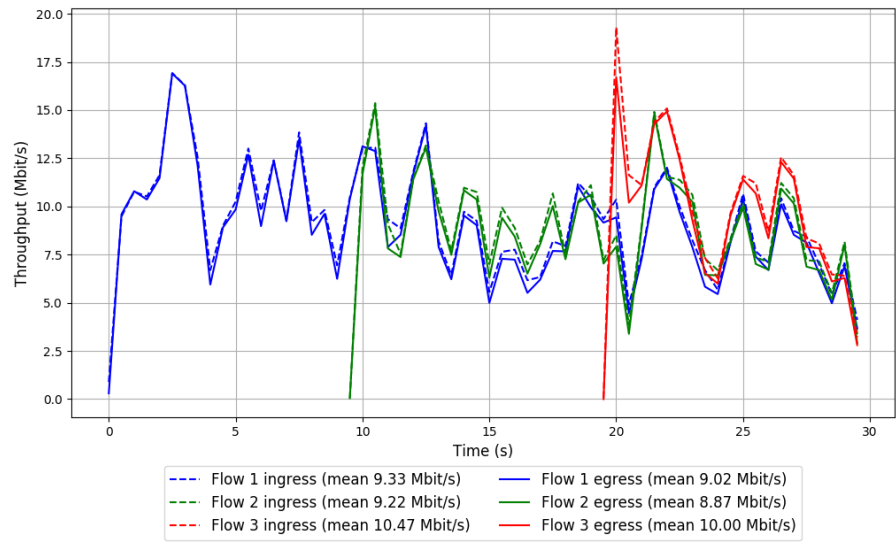
-- Flow 3:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 9.778 ms

Loss rate: 4.49%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-12 09:06:09

End at: 2017-10-12 09:06:39

Local clock offset: 3.631 ms

Remote clock offset: 4.603 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 7.287 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 7.105 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 10.30 Mbit/s

95th percentile per-packet one-way delay: 7.238 ms

Loss rate: 3.08%

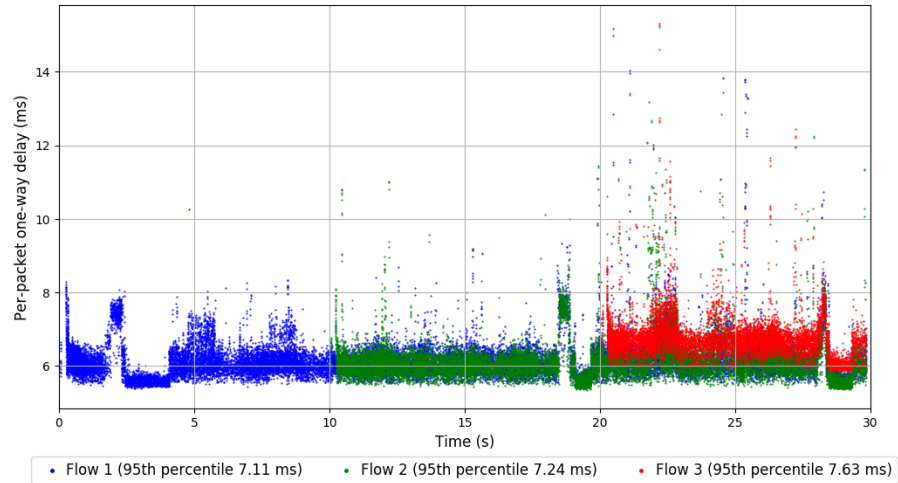
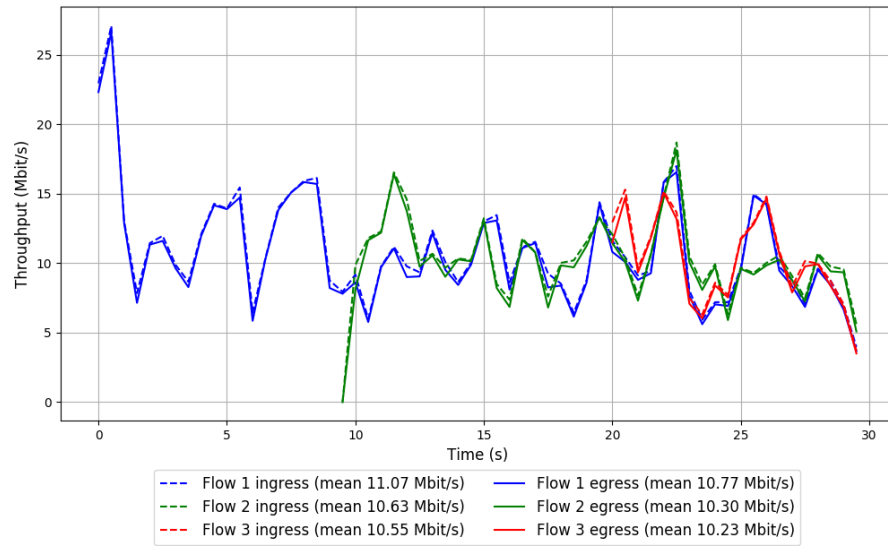
-- Flow 3:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 7.631 ms

Loss rate: 3.02%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-10-12 09:22:25

End at: 2017-10-12 09:22:55

Local clock offset: 3.987 ms

Remote clock offset: 4.188 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 8.218 ms

Loss rate: 3.35%

-- Flow 1:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 18.708 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 9.06 Mbit/s

95th percentile per-packet one-way delay: 7.545 ms

Loss rate: 3.66%

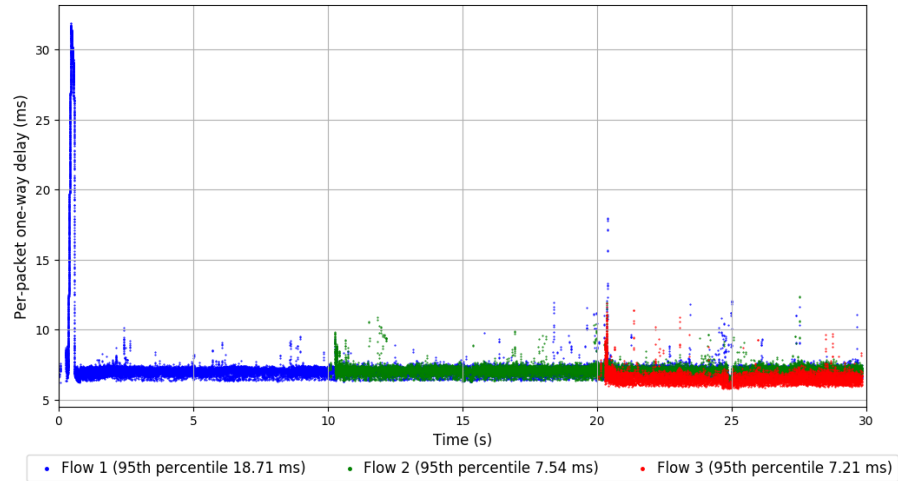
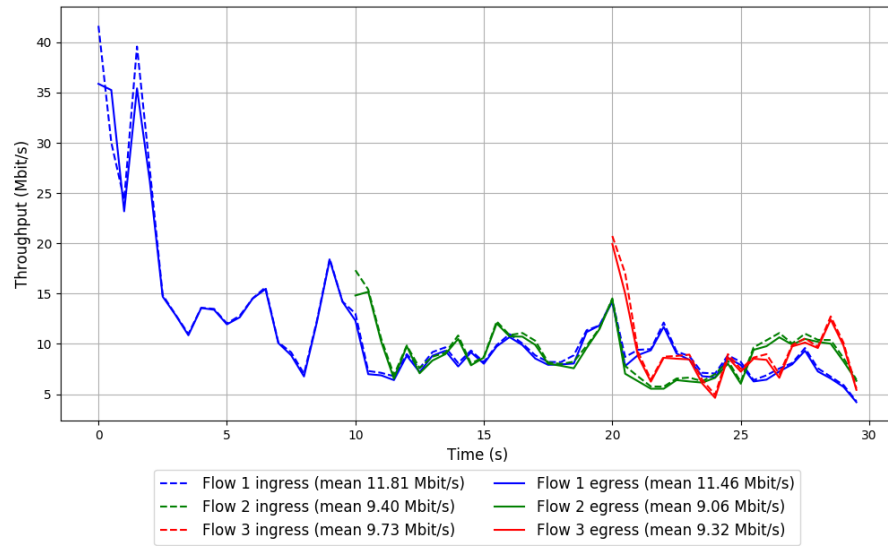
-- Flow 3:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 7.205 ms

Loss rate: 4.21%

Run 10: Report of QUIC Cubic — Data Link

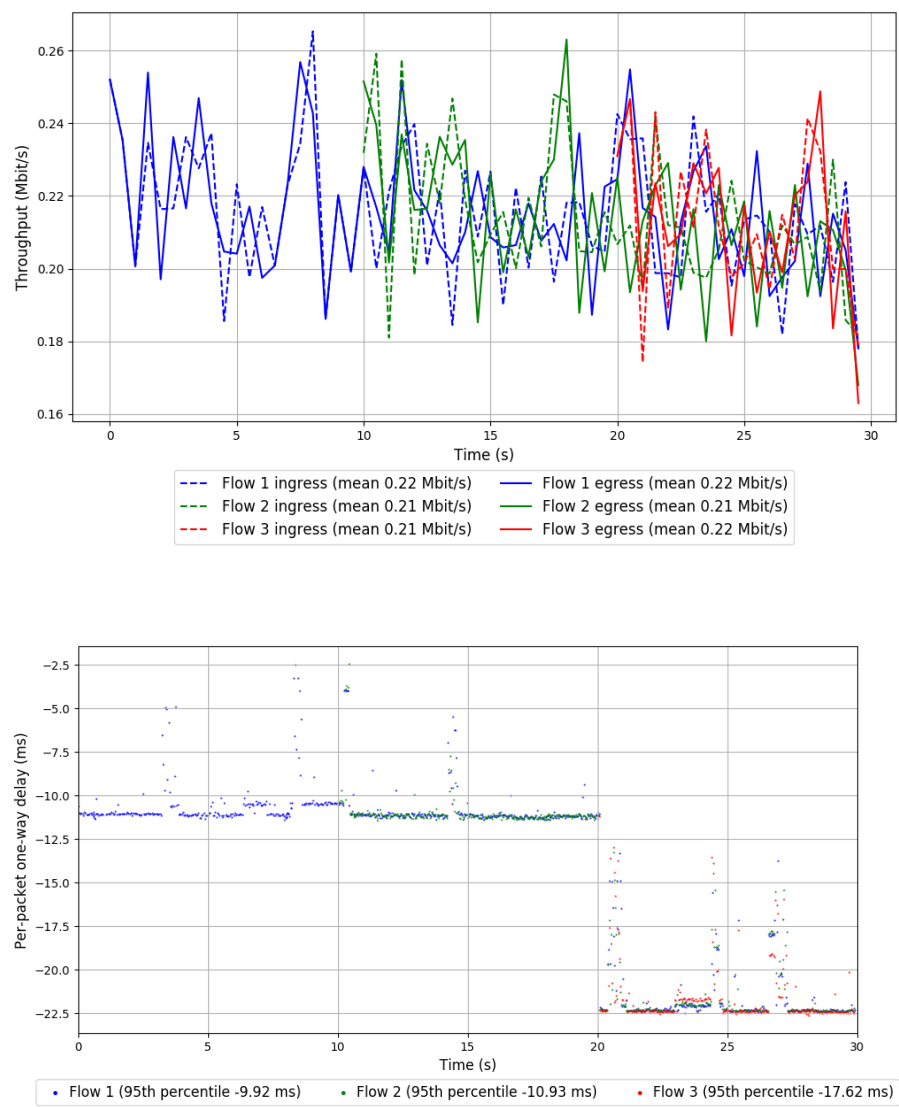


Run 1: Statistics of SReAM

Start at: 2017-10-12 06:35:15
End at: 2017-10-12 06:35:45
Local clock offset: 1.385 ms
Remote clock offset: -16.673 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -10.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -9.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -10.929 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.619 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

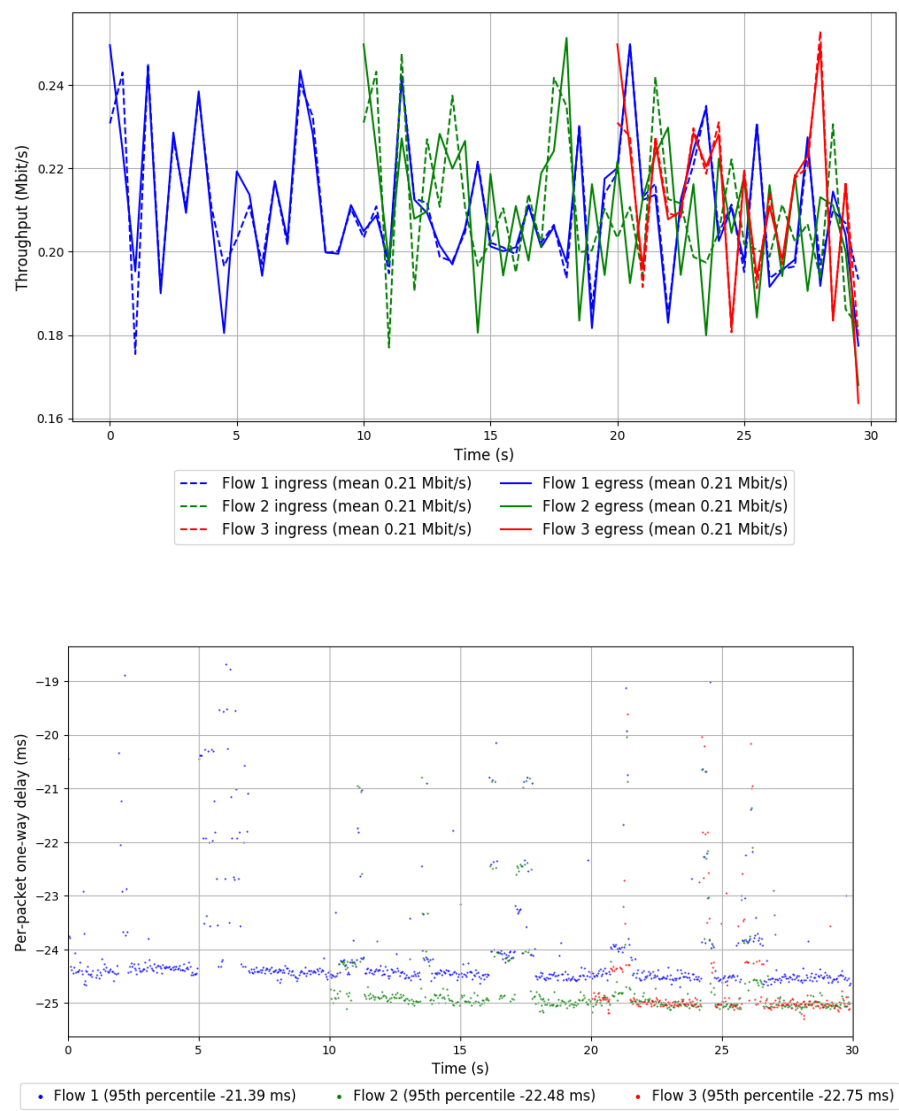


Run 2: Statistics of SReAM

Start at: 2017-10-12 06:52:32
End at: 2017-10-12 06:53:02
Local clock offset: 3.351 ms
Remote clock offset: -13.467 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: -22.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -21.389 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -22.477 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -22.751 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

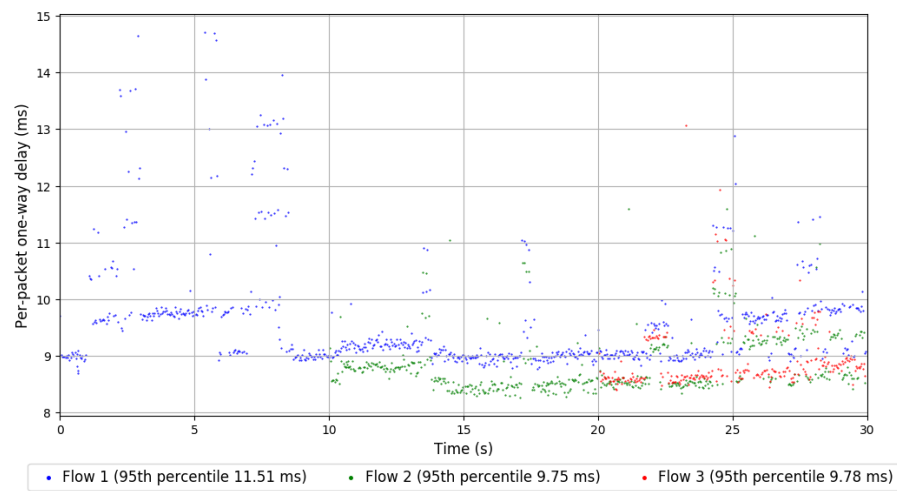
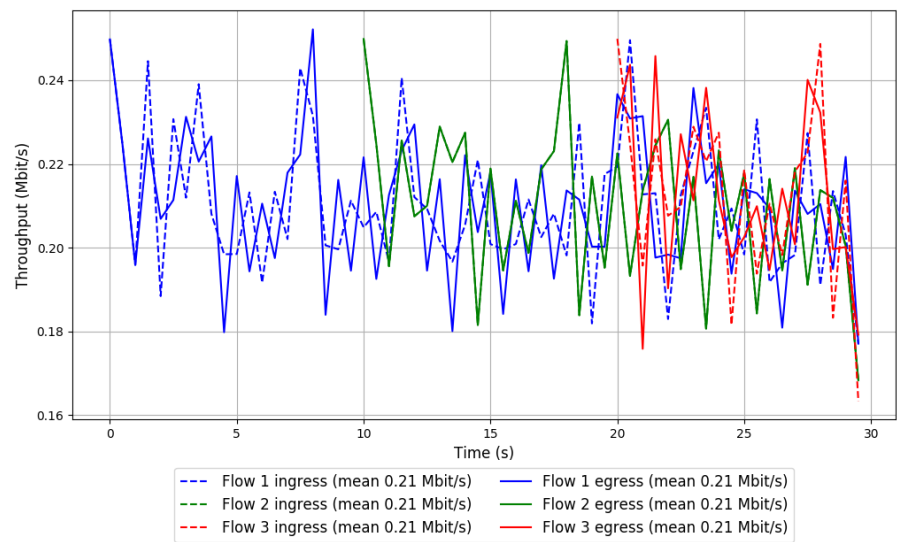


Run 3: Statistics of SReAM

Start at: 2017-10-12 07:10:44
End at: 2017-10-12 07:11:14
Local clock offset: 0.96 ms
Remote clock offset: 20.799 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 10.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.512 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.752 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.781 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

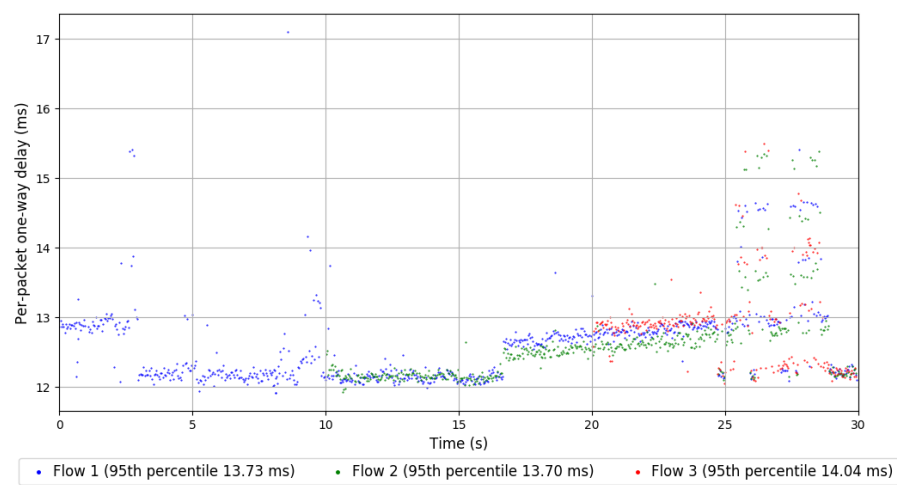
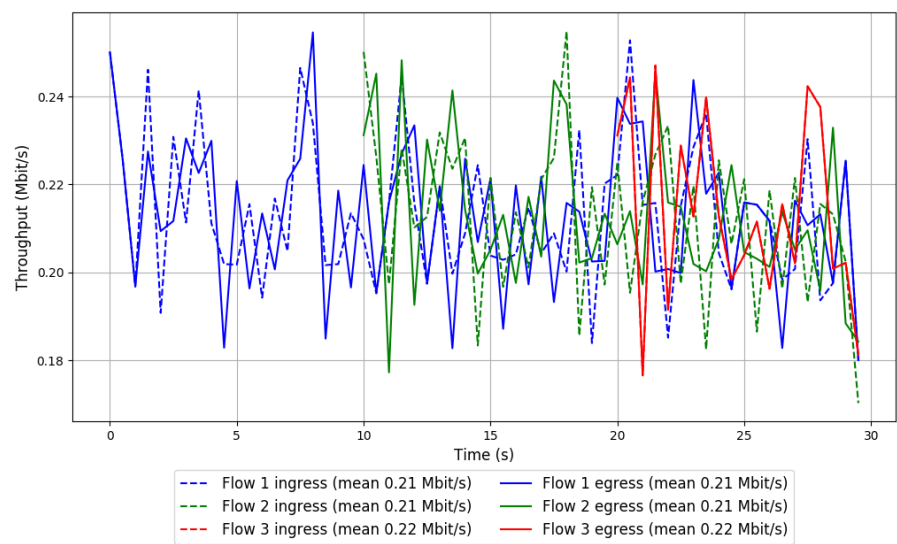


Run 4: Statistics of SReAM

Start at: 2017-10-12 07:27:16
End at: 2017-10-12 07:27:46
Local clock offset: 0.517 ms
Remote clock offset: 20.784 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.735 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.695 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.037 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

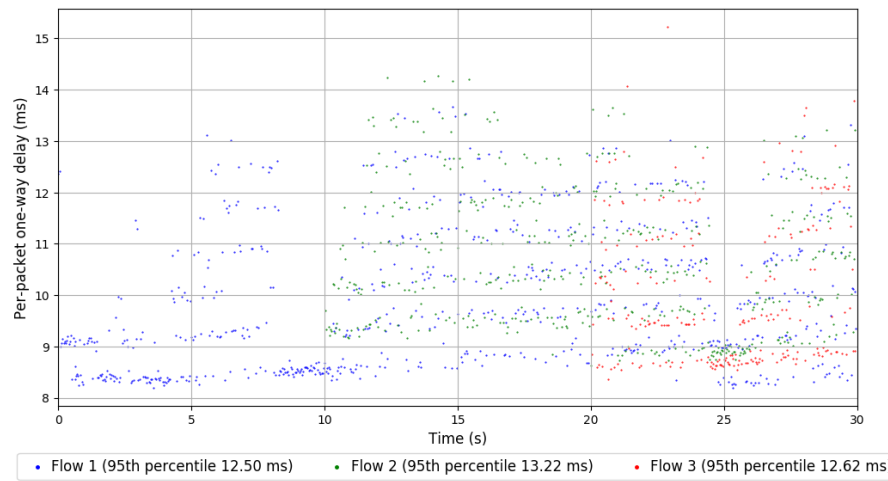
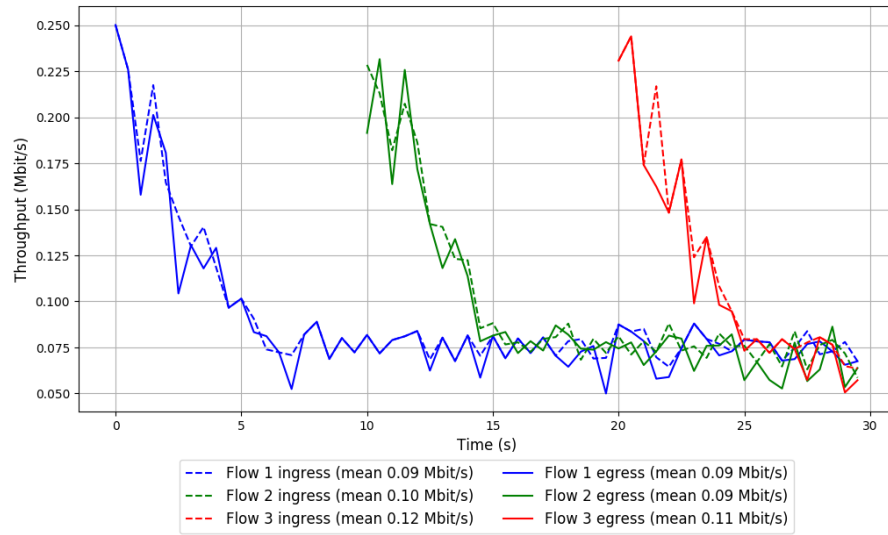


Run 5: Statistics of SCReAM

Start at: 2017-10-12 07:44:00
End at: 2017-10-12 07:44:30
Local clock offset: 1.414 ms
Remote clock offset: 15.235 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 12.714 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 12.504 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 13.218 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 12.618 ms
Loss rate: 5.70%

Run 5: Report of SReAM — Data Link

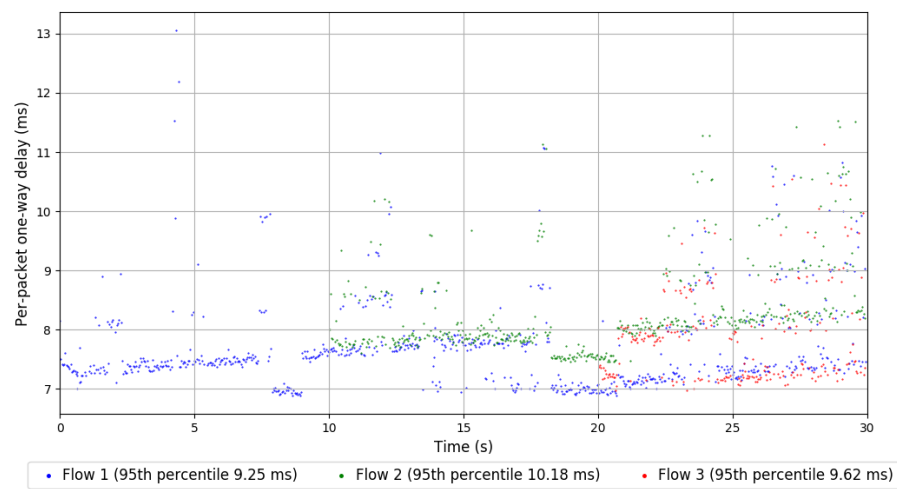
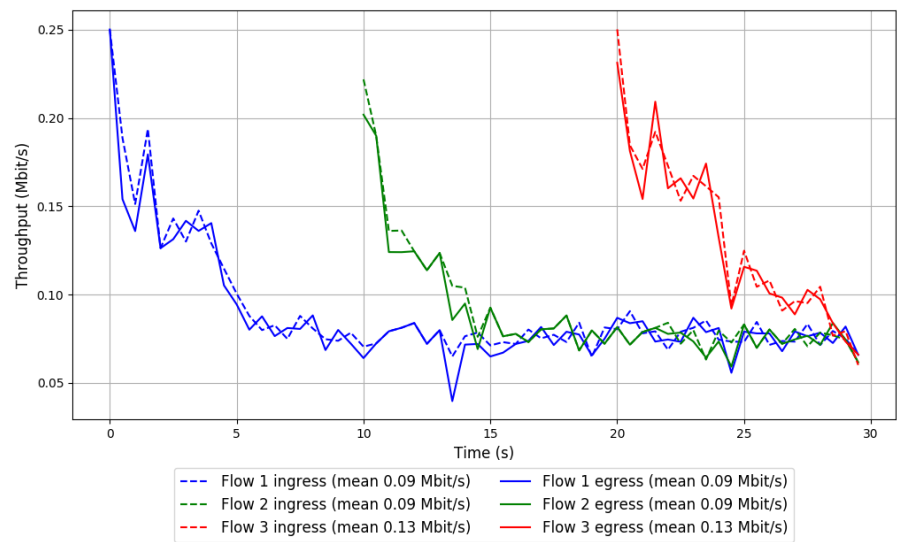


Run 6: Statistics of SCReAM

Start at: 2017-10-12 08:02:07
End at: 2017-10-12 08:02:37
Local clock offset: 1.387 ms
Remote clock offset: 10.776 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 9.738 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 9.254 ms
Loss rate: 2.91%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 10.177 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 9.624 ms
Loss rate: 1.76%

Run 6: Report of SReAM — Data Link

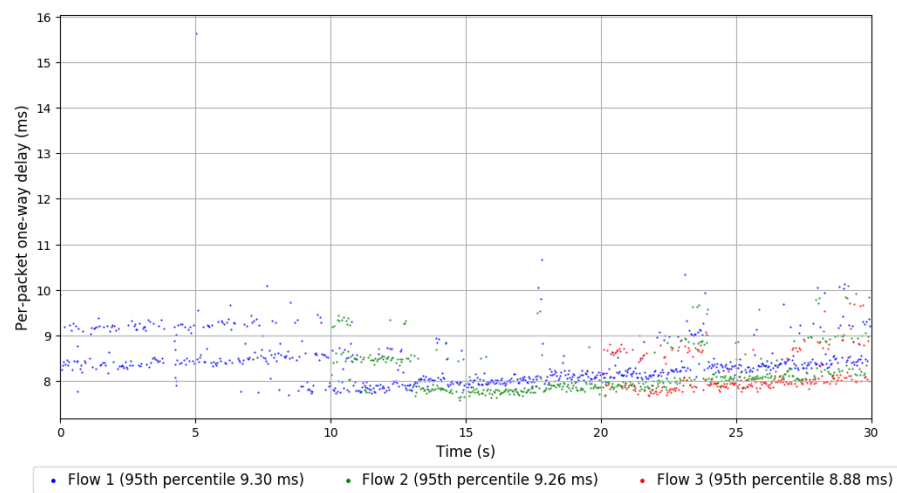
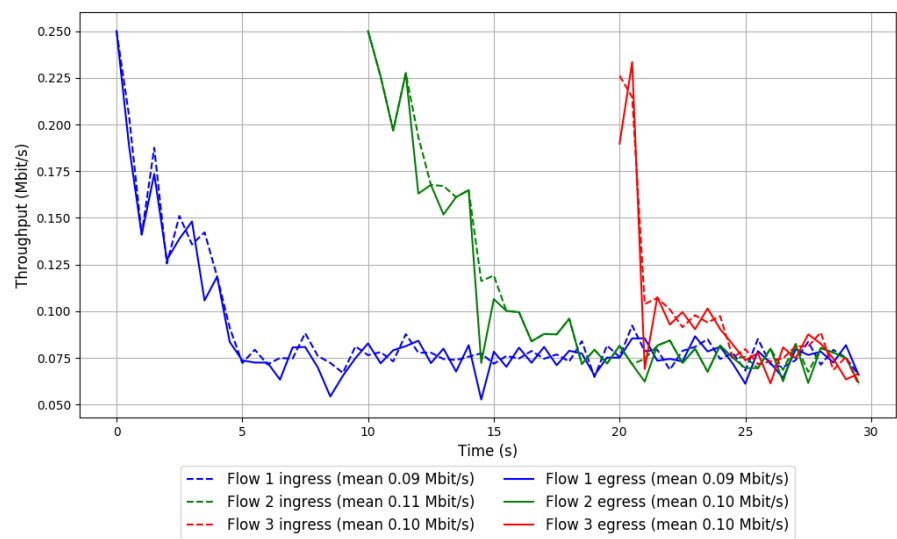


Run 7: Statistics of SCReAM

Start at: 2017-10-12 08:20:51
End at: 2017-10-12 08:21:21
Local clock offset: 1.524 ms
Remote clock offset: 9.283 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 9.282 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 9.297 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.262 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.885 ms
Loss rate: 3.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-12 08:37:06

End at: 2017-10-12 08:37:36

Local clock offset: 1.85 ms

Remote clock offset: 7.738 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 8.915 ms

Loss rate: 3.91%

-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 8.504 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 8.976 ms

Loss rate: 3.10%

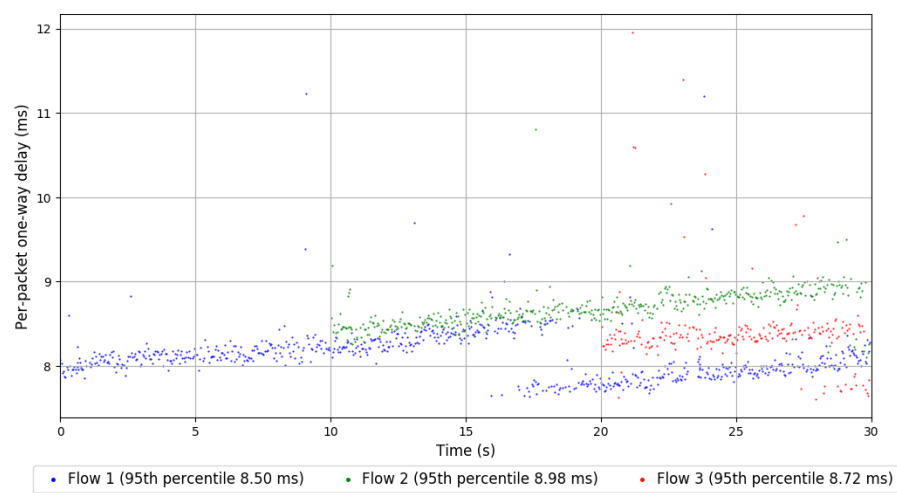
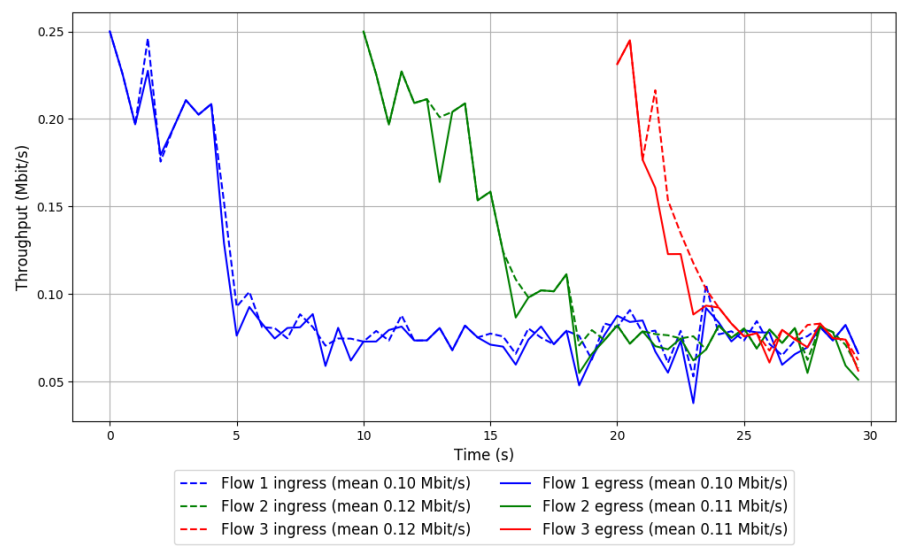
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 8.719 ms

Loss rate: 7.07%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-10-12 08:53:22

End at: 2017-10-12 08:53:52

Local clock offset: 1.01 ms

Remote clock offset: 6.804 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 10.617 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 10.338 ms

Loss rate: 4.29%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 10.694 ms

Loss rate: 2.20%

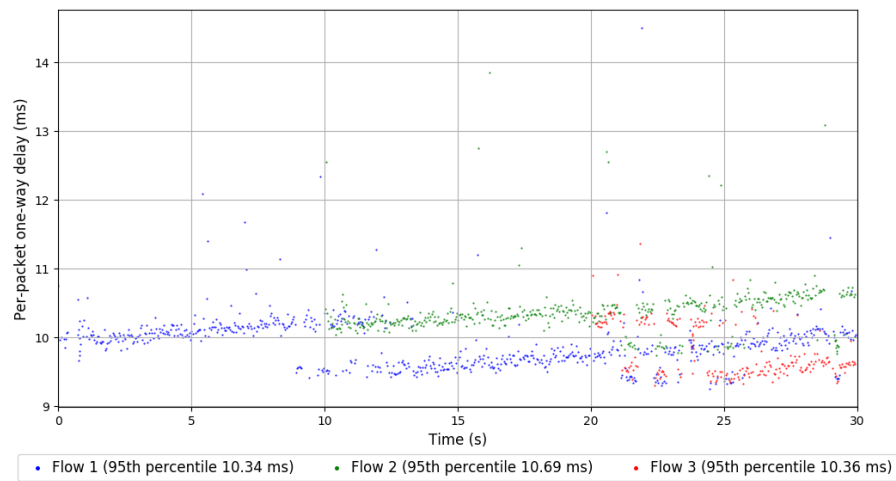
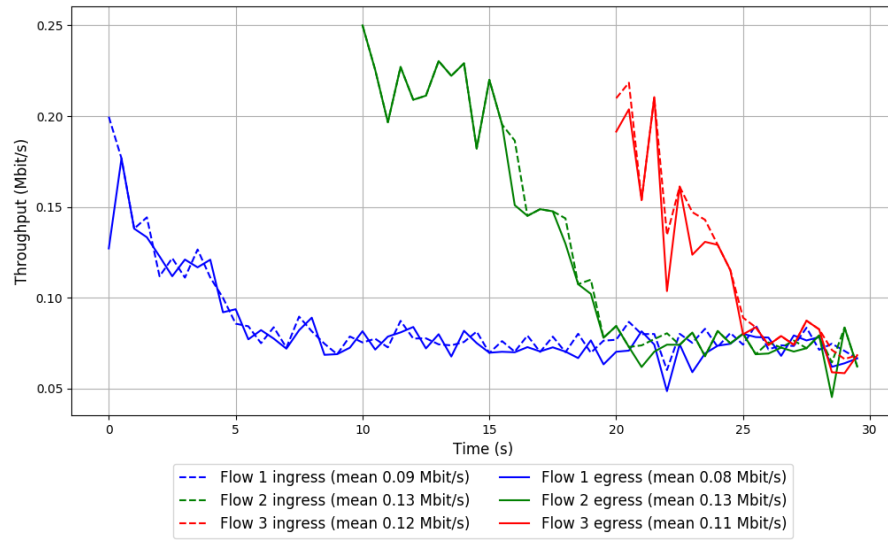
-- Flow 3:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 10.357 ms

Loss rate: 5.36%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-10-12 09:09:28

End at: 2017-10-12 09:09:58

Local clock offset: 1.424 ms

Remote clock offset: 5.247 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 11.030 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 11.458 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 11.010 ms

Loss rate: 1.01%

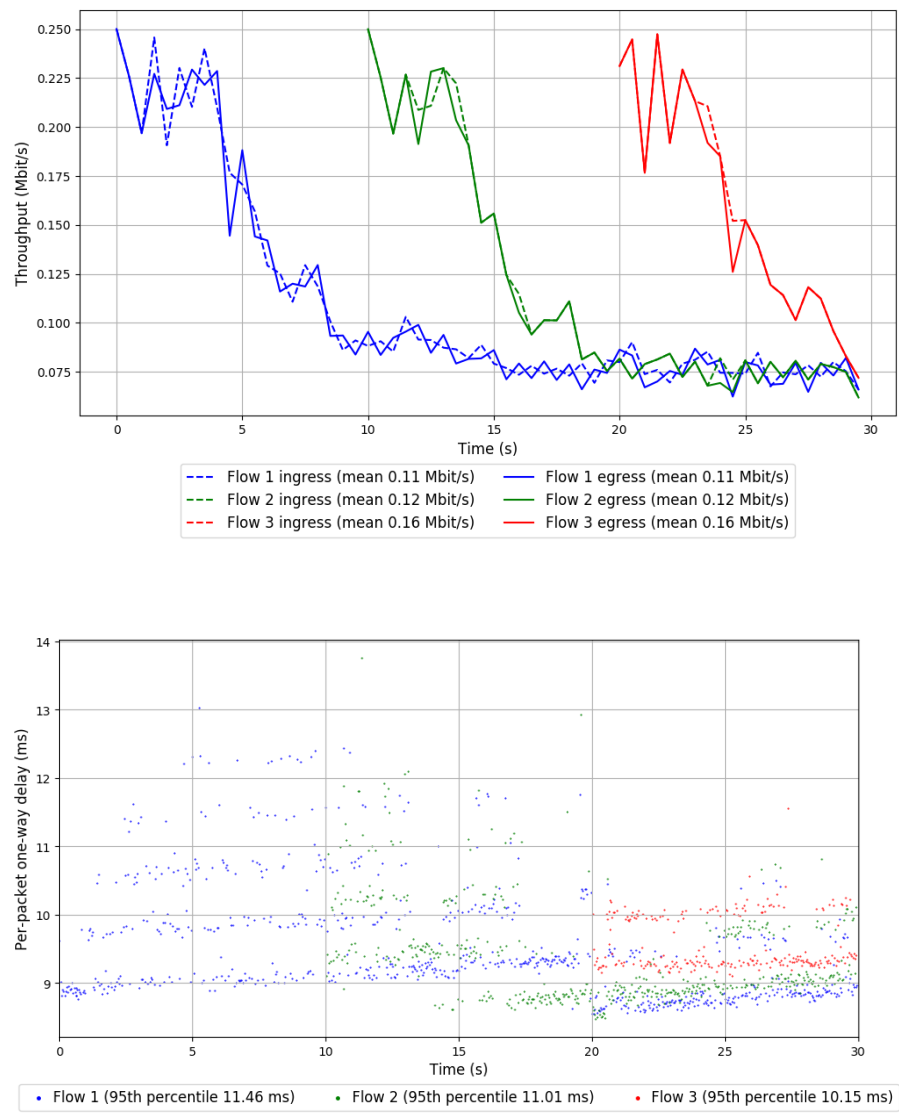
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 10.155 ms

Loss rate: 1.40%

Run 10: Report of SCRaM — Data Link

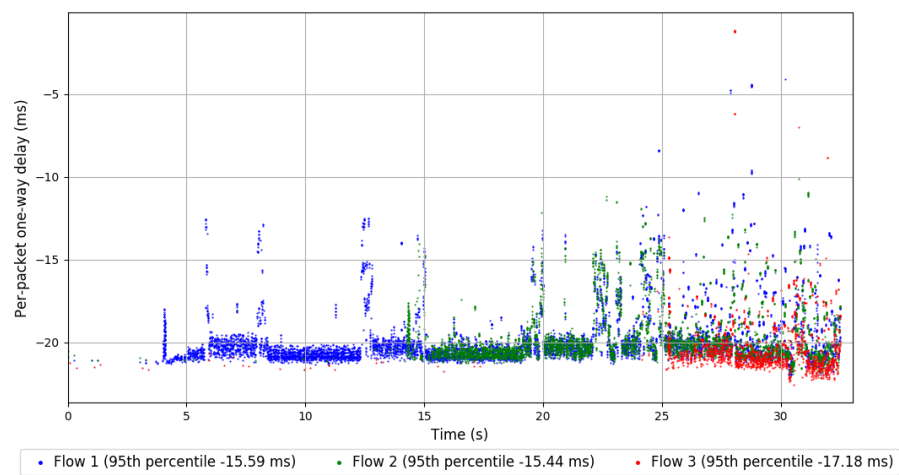
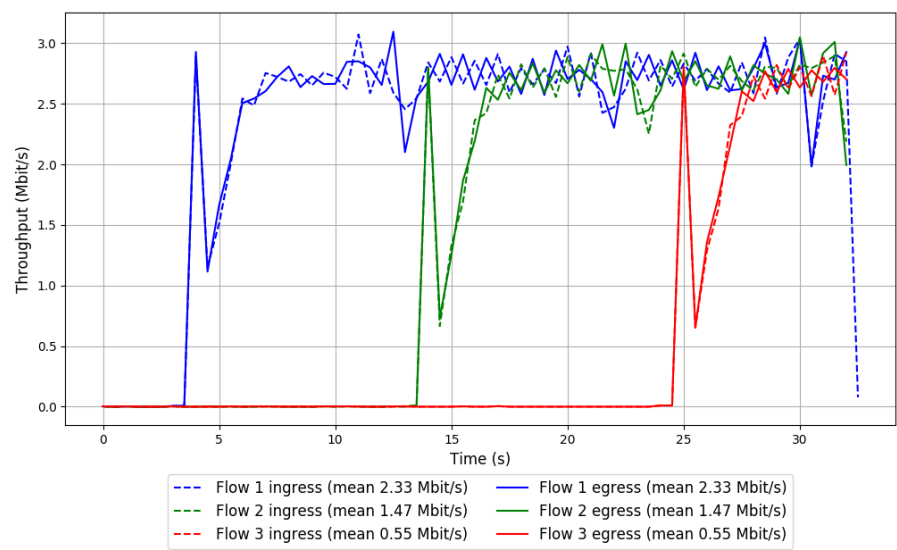


Run 1: Statistics of WebRTC media

Start at: 2017-10-12 06:41:13
End at: 2017-10-12 06:41:43
Local clock offset: 0.849 ms
Remote clock offset: -15.212 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: -15.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -15.591 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -15.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: -17.175 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

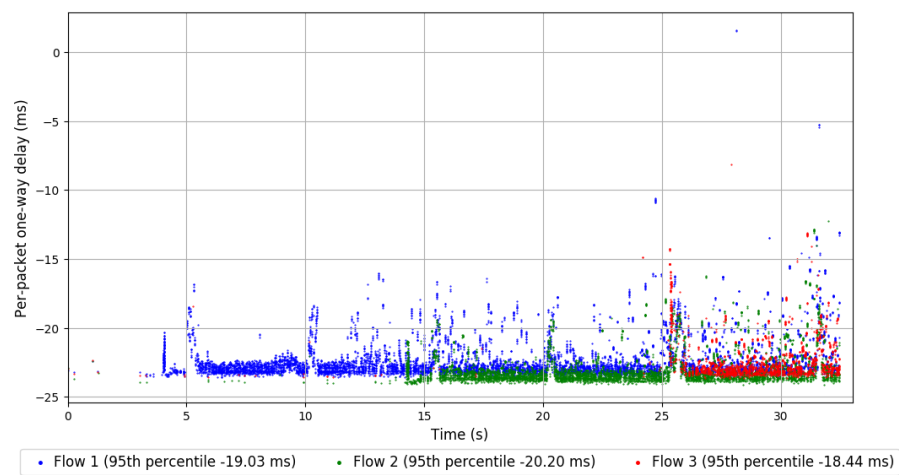
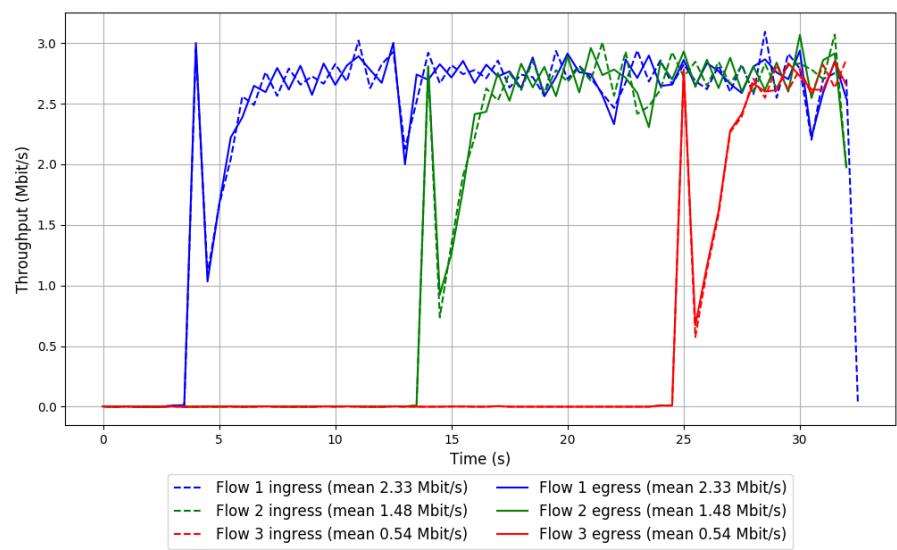


Run 2: Statistics of WebRTC media

Start at: 2017-10-12 06:59:24
End at: 2017-10-12 06:59:54
Local clock offset: 2.731 ms
Remote clock offset: -11.401 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: -19.274 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -19.029 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -20.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -18.439 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

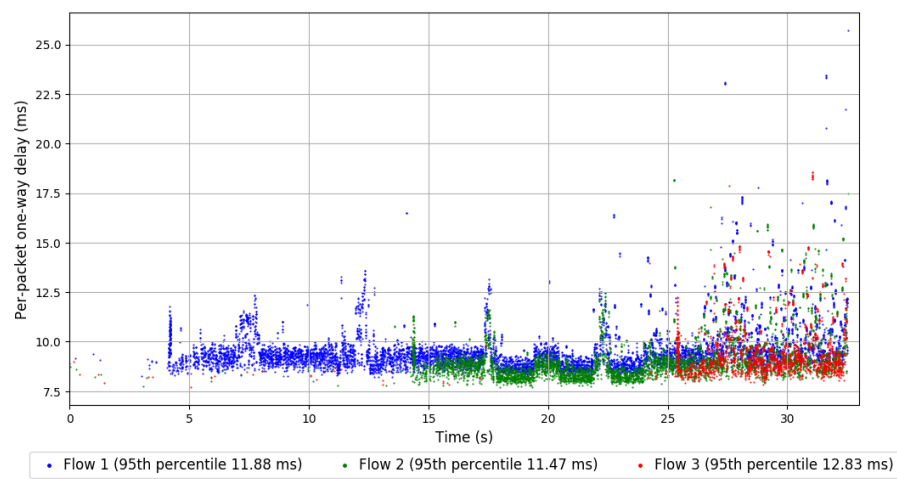
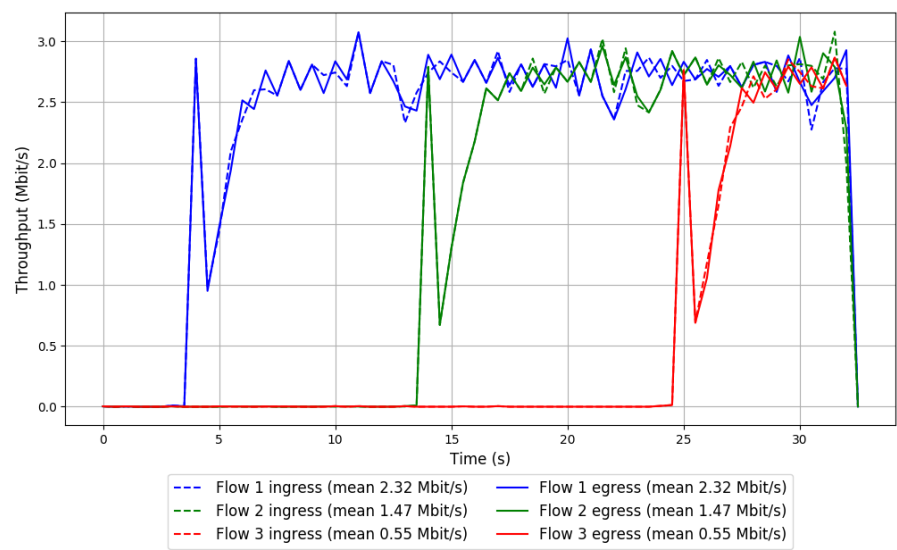


Run 3: Statistics of WebRTC media

Start at: 2017-10-12 07:16:25
End at: 2017-10-12 07:16:55
Local clock offset: 1.563 ms
Remote clock offset: 19.924 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 11.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 11.876 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 11.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 12.832 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

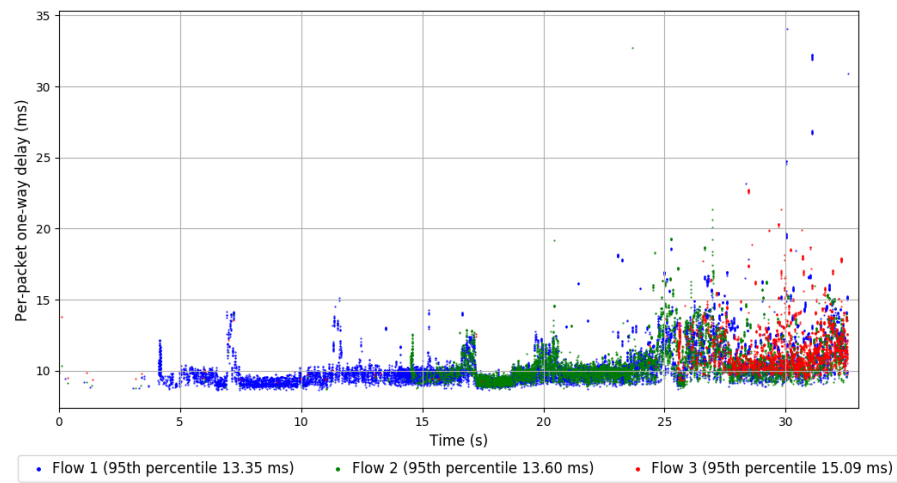
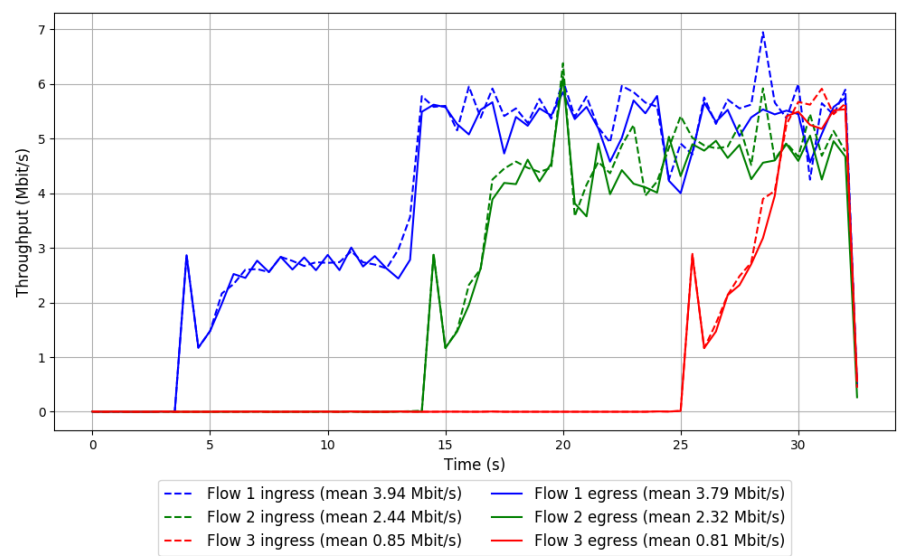


Run 4: Statistics of WebRTC media

Start at: 2017-10-12 07:32:59
End at: 2017-10-12 07:33:29
Local clock offset: 0.66 ms
Remote clock offset: 16.907 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 13.709 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 13.354 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 13.600 ms
Loss rate: 4.89%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 15.090 ms
Loss rate: 4.04%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-12 07:50:24

End at: 2017-10-12 07:50:55

Local clock offset: 0.709 ms

Remote clock offset: 16.39 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 19.102 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 19.117 ms

Loss rate: 3.34%

-- Flow 2:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 19.107 ms

Loss rate: 4.32%

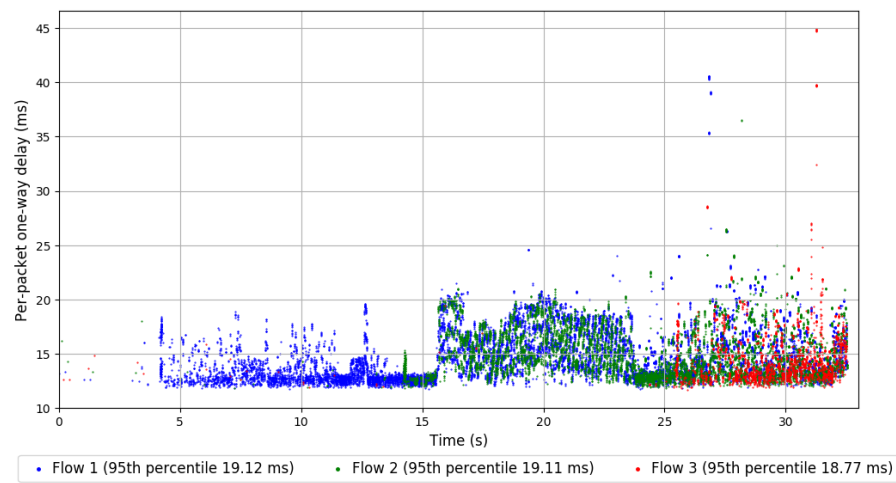
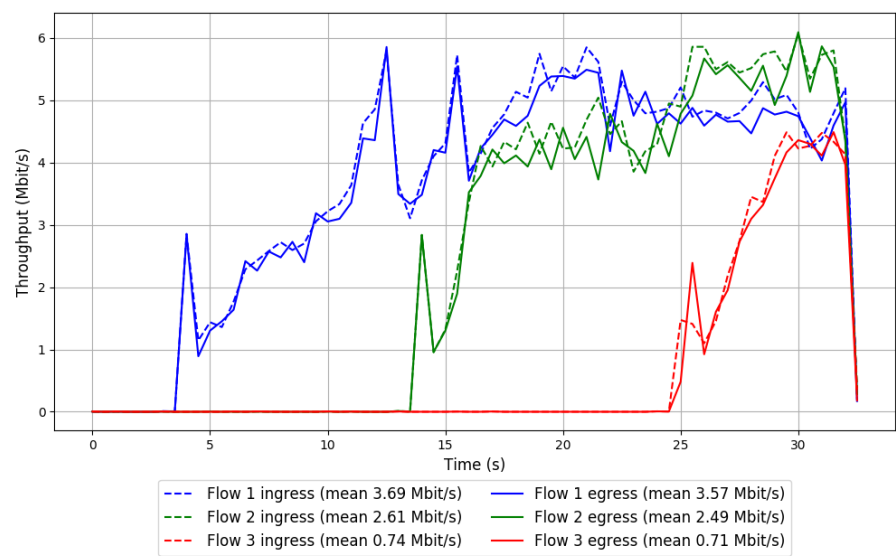
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 18.773 ms

Loss rate: 3.67%

Run 5: Report of WebRTC media — Data Link

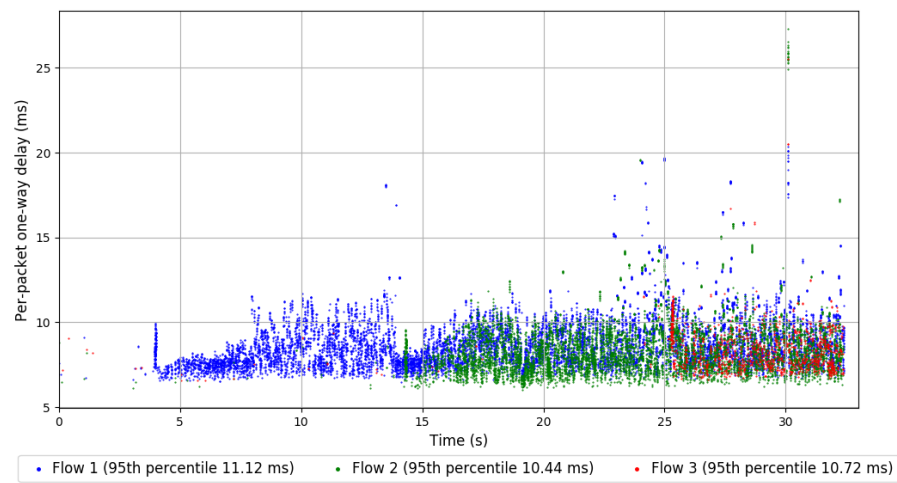
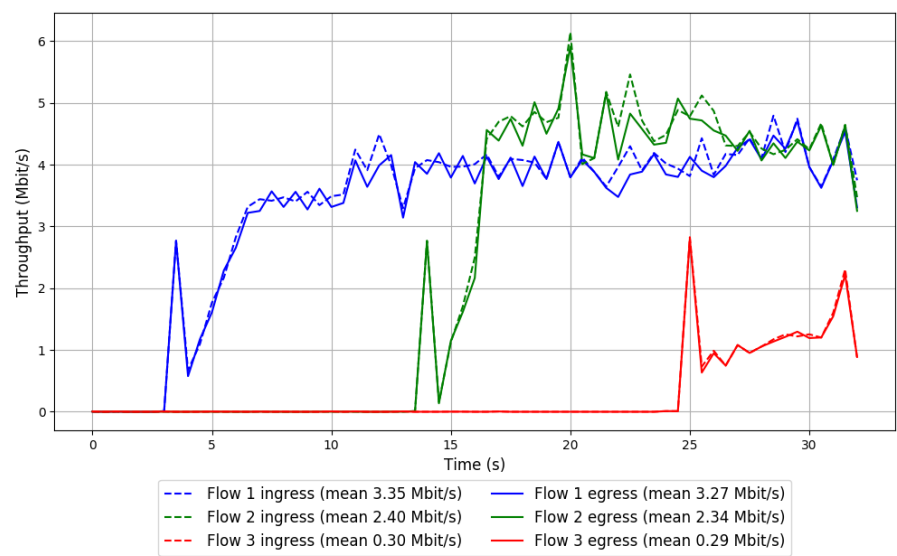


Run 6: Statistics of WebRTC media

Start at: 2017-10-12 08:10:17
End at: 2017-10-12 08:10:47
Local clock offset: 3.57 ms
Remote clock offset: 11.015 ms

Below is generated by plot.py at 2017-10-12 09:55:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 10.875 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 11.120 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 10.435 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 10.725 ms
Loss rate: 1.80%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-12 08:26:31

End at: 2017-10-12 08:27:01

Local clock offset: 1.581 ms

Remote clock offset: 9.437 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 12.236 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 12.280 ms

Loss rate: 3.11%

-- Flow 2:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 11.662 ms

Loss rate: 2.80%

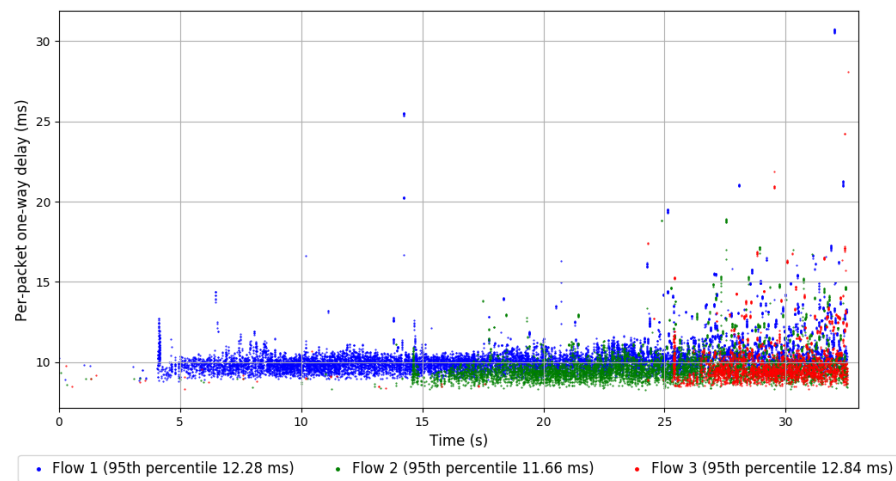
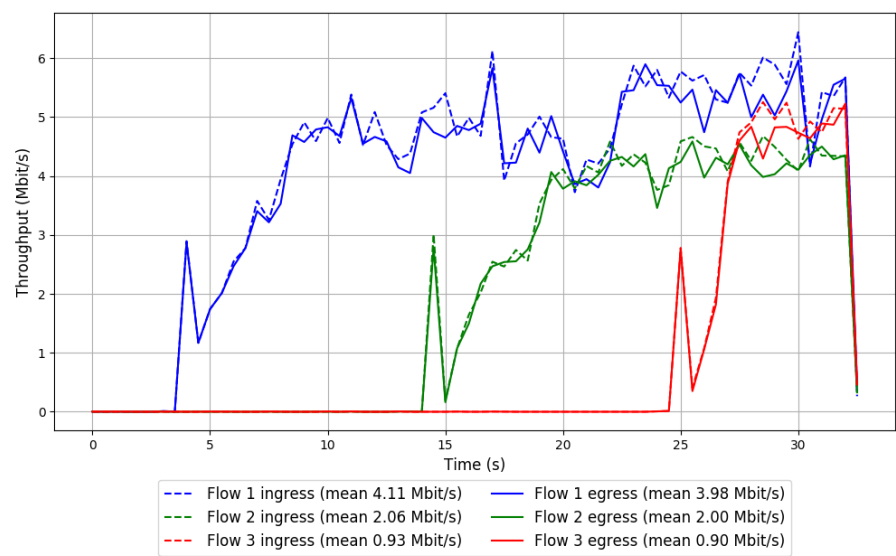
-- Flow 3:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 12.840 ms

Loss rate: 3.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-12 08:42:50

End at: 2017-10-12 08:43:20

Local clock offset: 4.38 ms

Remote clock offset: 6.968 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 8.404 ms

Loss rate: 3.52%

-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 8.399 ms

Loss rate: 3.47%

-- Flow 2:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 8.216 ms

Loss rate: 3.54%

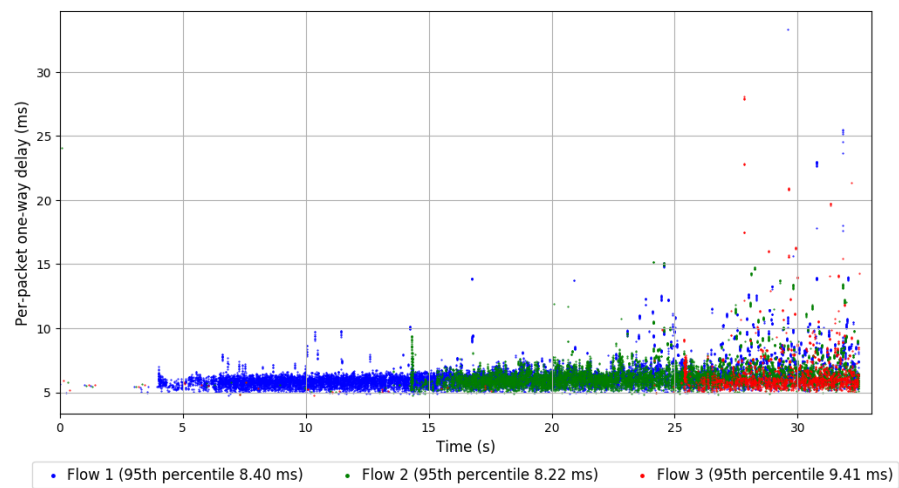
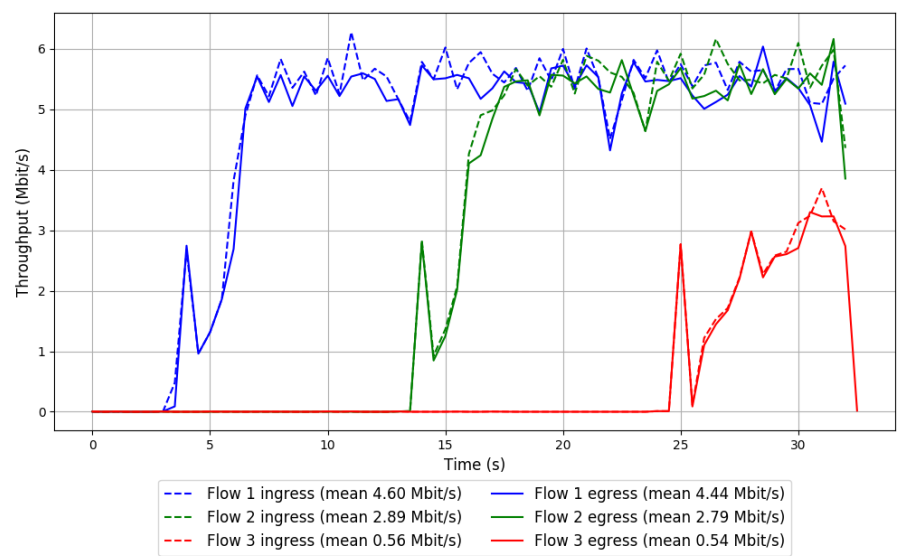
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 9.408 ms

Loss rate: 3.84%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-12 08:59:02

End at: 2017-10-12 08:59:32

Local clock offset: 2.542 ms

Remote clock offset: 5.419 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 10.457 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 9.295 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 10.554 ms

Loss rate: 1.91%

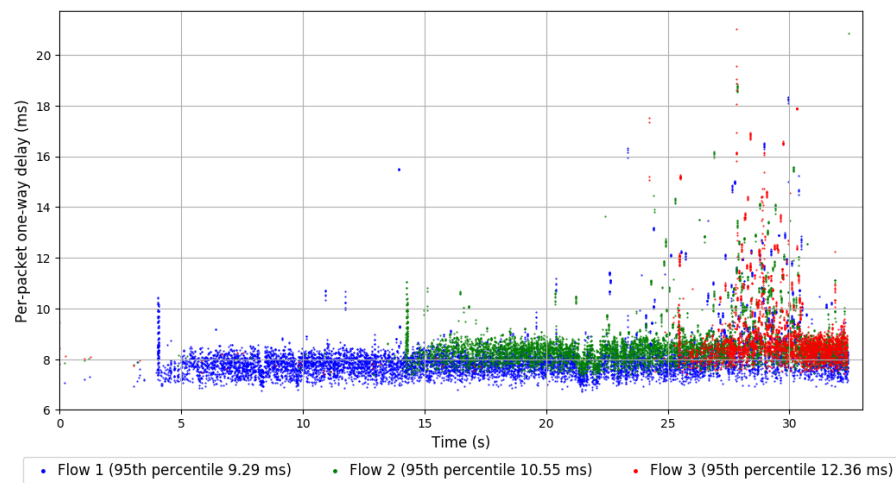
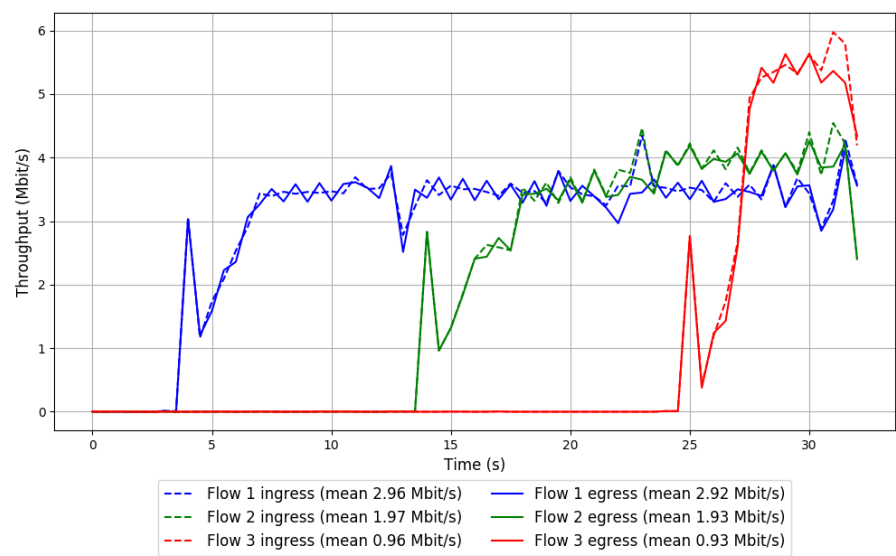
-- Flow 3:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 12.362 ms

Loss rate: 2.69%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-12 09:15:07

End at: 2017-10-12 09:15:37

Local clock offset: 4.471 ms

Remote clock offset: 6.05 ms

Below is generated by plot.py at 2017-10-12 09:55:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 10.204 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 10.136 ms

Loss rate: 2.78%

-- Flow 2:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 9.863 ms

Loss rate: 3.47%

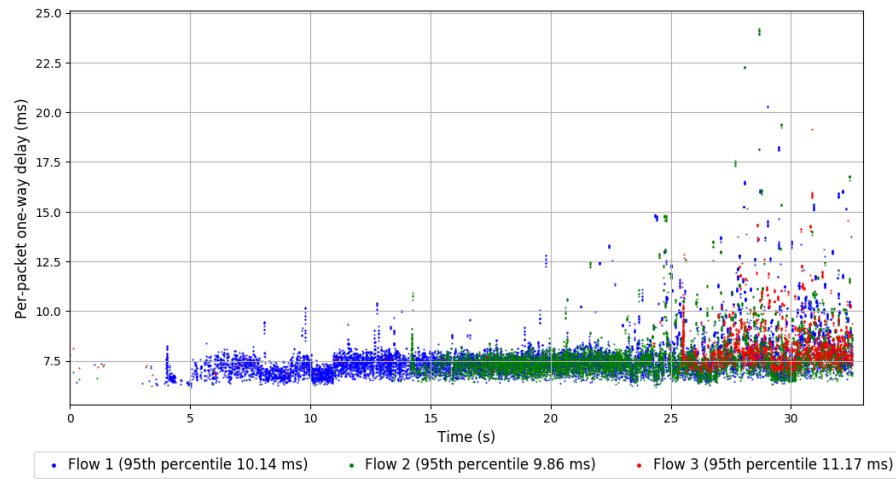
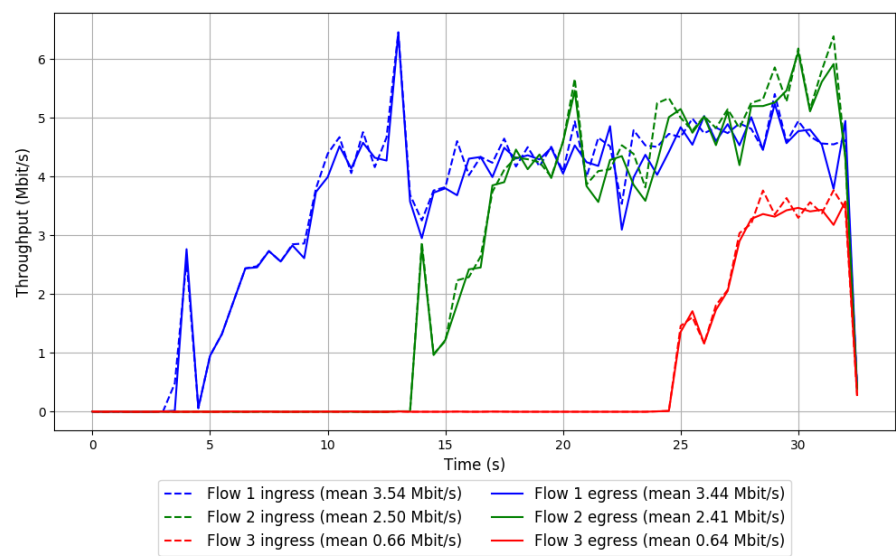
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 11.172 ms

Loss rate: 2.76%

Run 10: Report of WebRTC media — Data Link

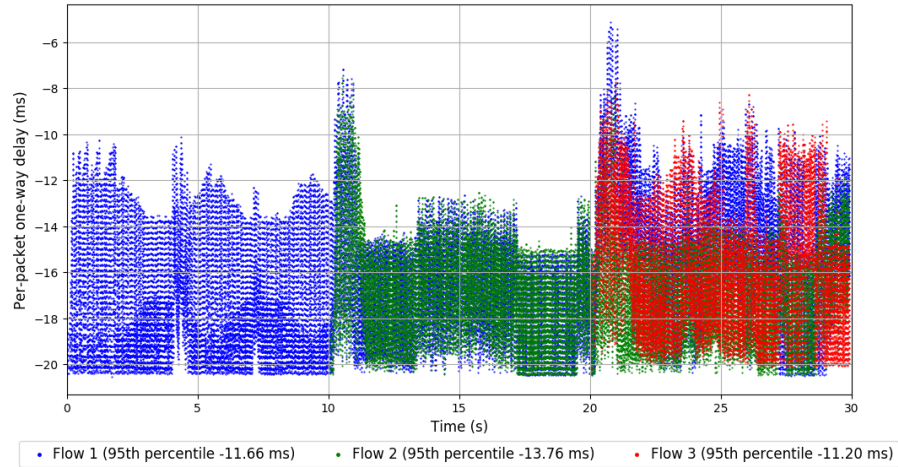
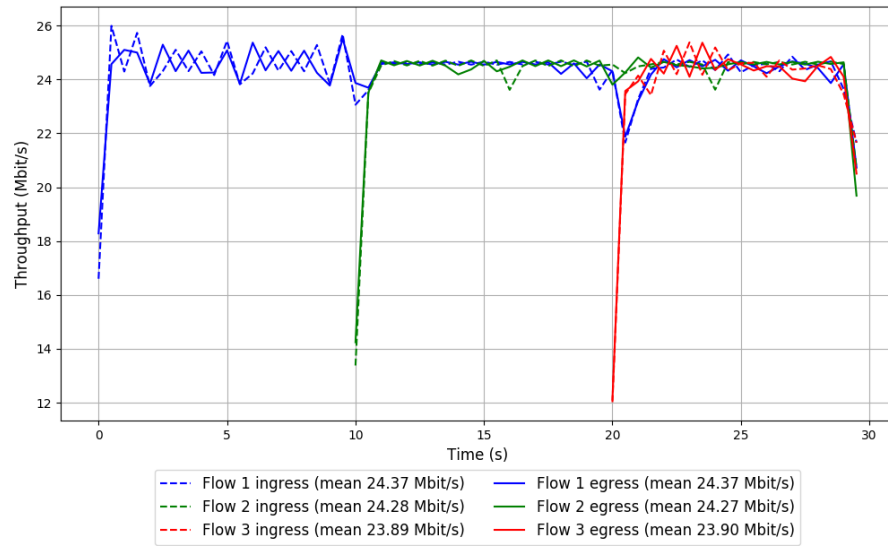


Run 1: Statistics of Sprout

Start at: 2017-10-12 06:37:37
End at: 2017-10-12 06:38:07
Local clock offset: -1.303 ms
Remote clock offset: -16.951 ms

Below is generated by plot.py at 2017-10-12 09:55:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: -11.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: -11.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: -13.756 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: -11.204 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

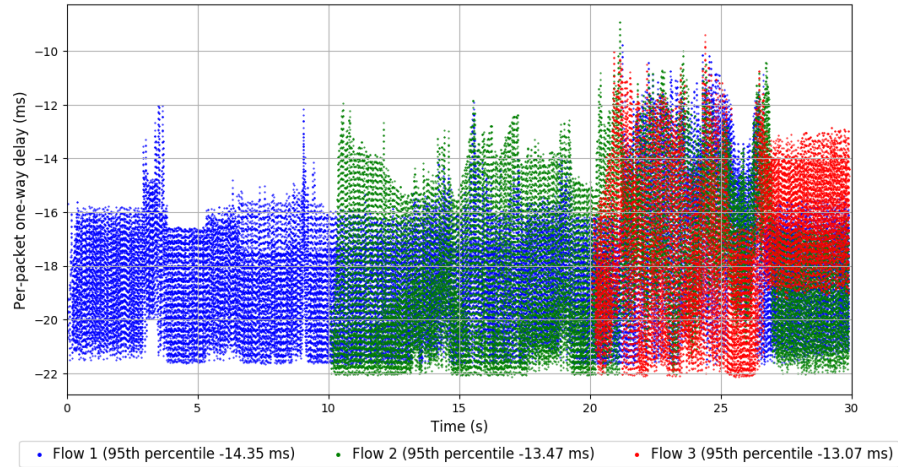
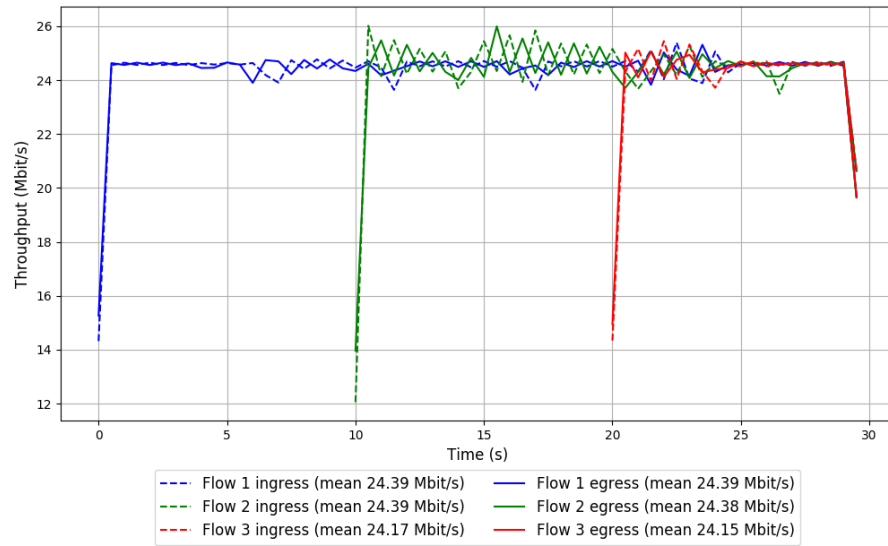


Run 2: Statistics of Sprout

Start at: 2017-10-12 06:54:53
End at: 2017-10-12 06:55:23
Local clock offset: 1.071 ms
Remote clock offset: -12.211 ms

Below is generated by plot.py at 2017-10-12 09:55:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: -13.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: -14.349 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: -13.469 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: -13.066 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

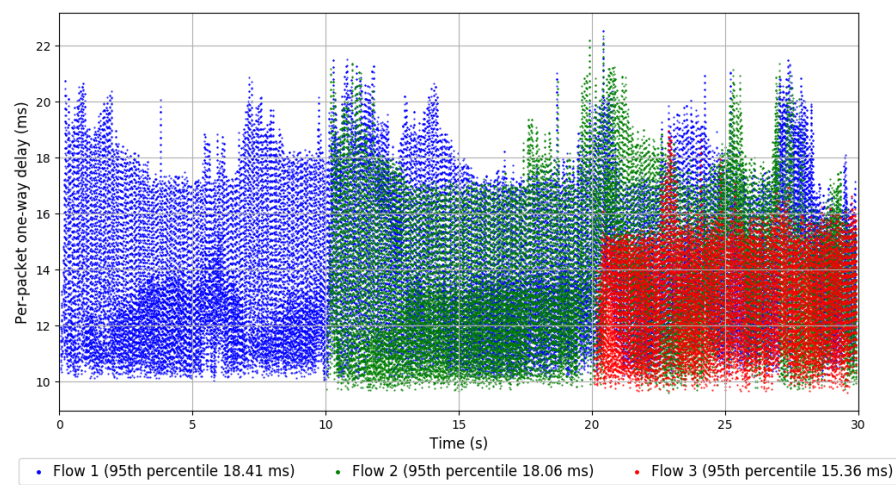
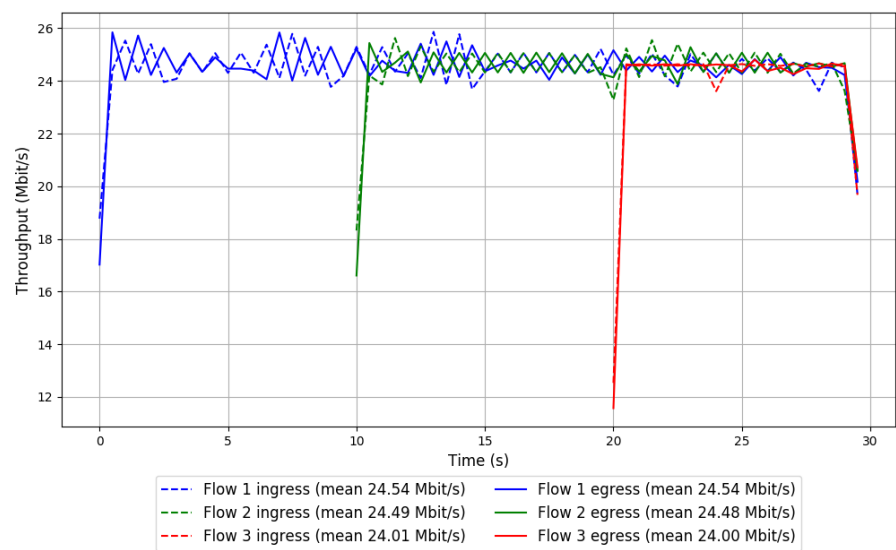


Run 3: Statistics of Sprout

Start at: 2017-10-12 07:12:59
End at: 2017-10-12 07:13:29
Local clock offset: 0.561 ms
Remote clock offset: 21.207 ms

```
# Below is generated by plot.py at 2017-10-12 09:55:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 18.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 18.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 18.063 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 15.364 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

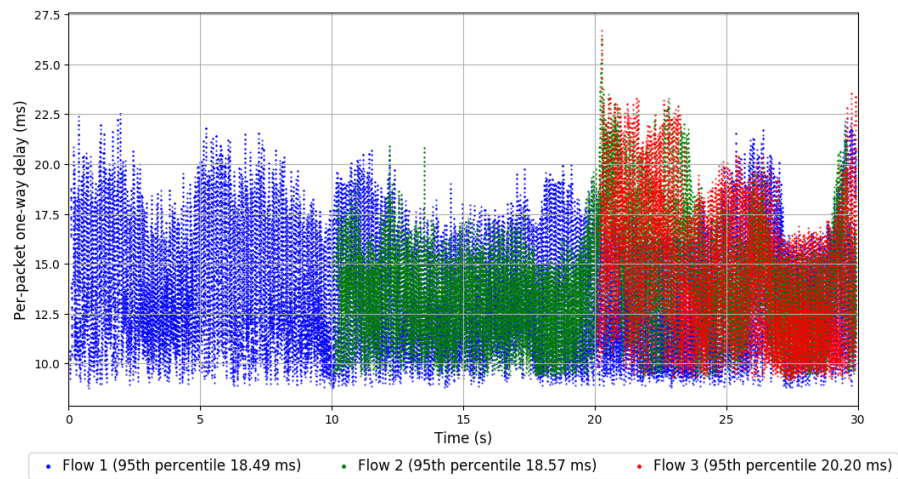
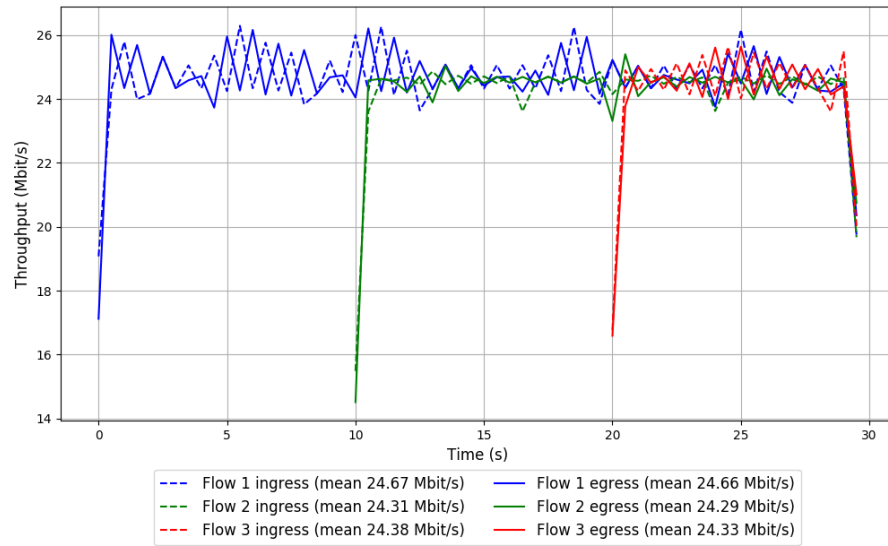


Run 4: Statistics of Sprout

Start at: 2017-10-12 07:29:30
End at: 2017-10-12 07:30:00
Local clock offset: 2.999 ms
Remote clock offset: 19.623 ms

```
# Below is generated by plot.py at 2017-10-12 09:55:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.85 Mbit/s
95th percentile per-packet one-way delay: 18.857 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 18.487 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 18.574 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 20.196 ms
Loss rate: 0.07%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-12 07:46:43

End at: 2017-10-12 07:47:13

Local clock offset: 3.792 ms

Remote clock offset: 34.85 ms

Below is generated by plot.py at 2017-10-12 09:55:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 36.242 ms

Loss rate: 8.21%

-- Flow 1:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 35.968 ms

Loss rate: 6.89%

-- Flow 2:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 36.227 ms

Loss rate: 8.69%

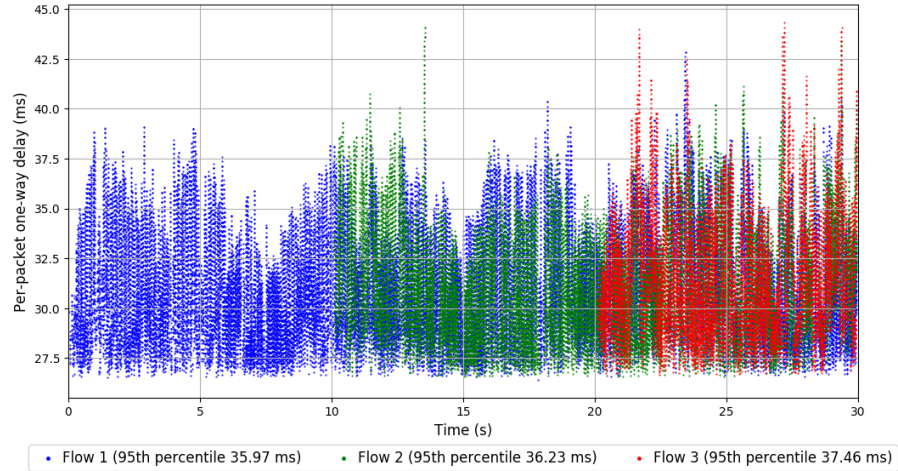
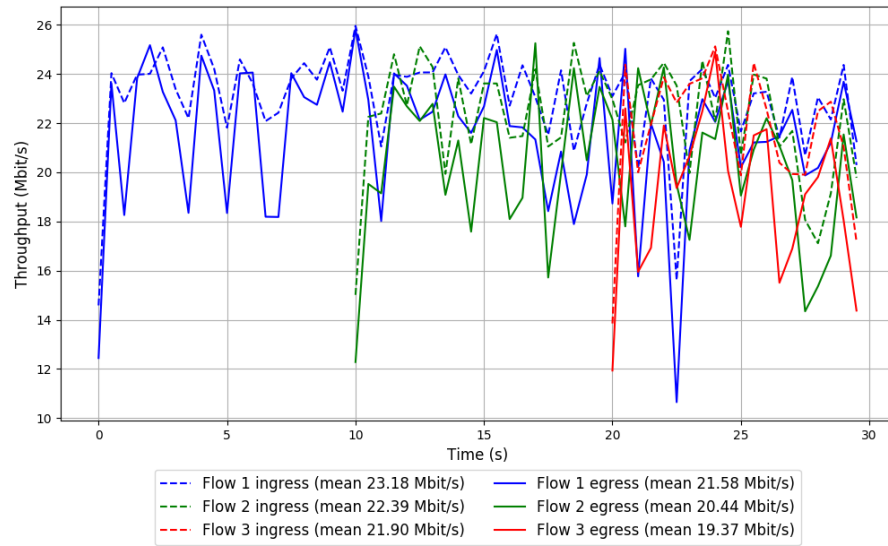
-- Flow 3:

Average throughput: 19.37 Mbit/s

95th percentile per-packet one-way delay: 37.462 ms

Loss rate: 11.47%

Run 5: Report of Sprout — Data Link

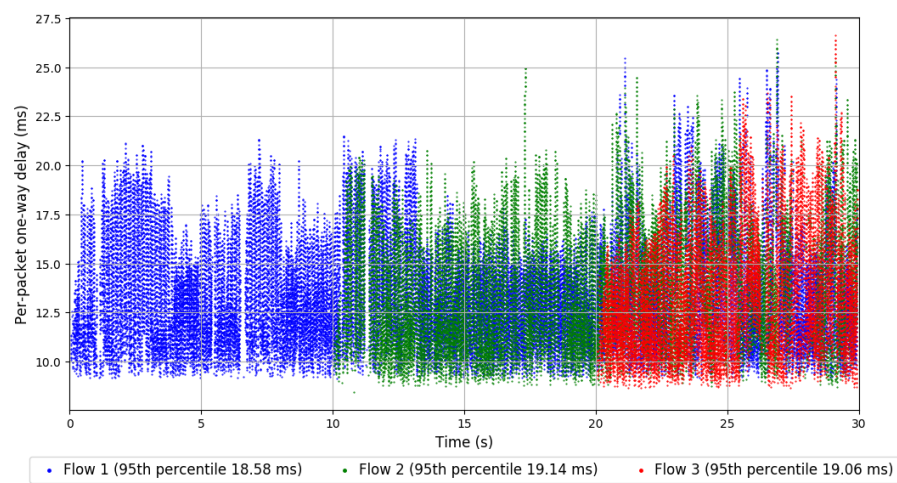
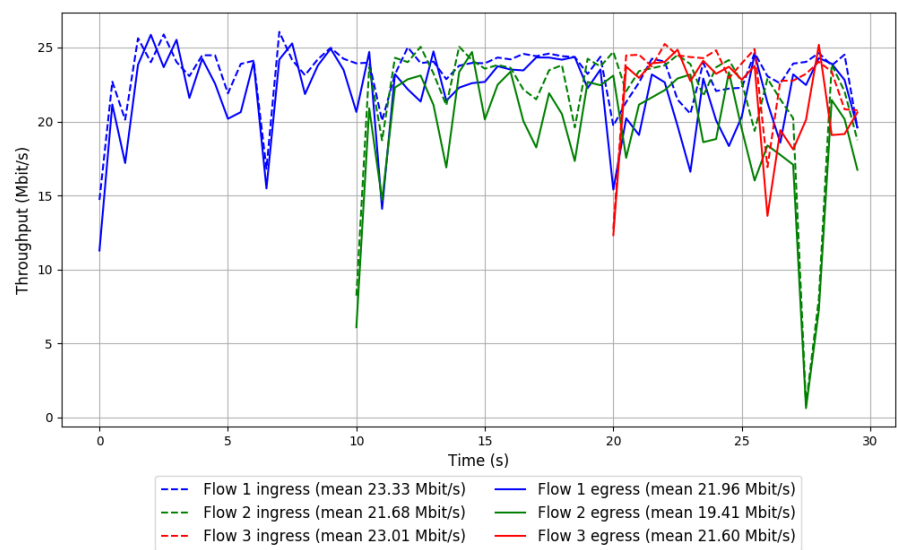


Run 6: Statistics of Sprout

Start at: 2017-10-12 08:04:20
End at: 2017-10-12 08:04:50
Local clock offset: 1.009 ms
Remote clock offset: 11.661 ms

```
# Below is generated by plot.py at 2017-10-12 09:55:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 18.849 ms
Loss rate: 7.35%
-- Flow 1:
Average throughput: 21.96 Mbit/s
95th percentile per-packet one-way delay: 18.579 ms
Loss rate: 5.84%
-- Flow 2:
Average throughput: 19.41 Mbit/s
95th percentile per-packet one-way delay: 19.138 ms
Loss rate: 10.46%
-- Flow 3:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 19.061 ms
Loss rate: 6.06%
```


Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-12 08:23:02

End at: 2017-10-12 08:23:32

Local clock offset: 3.474 ms

Remote clock offset: 9.352 ms

Below is generated by plot.py at 2017-10-12 09:55:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 15.909 ms

Loss rate: 7.17%

-- Flow 1:

Average throughput: 21.64 Mbit/s

95th percentile per-packet one-way delay: 15.452 ms

Loss rate: 6.42%

-- Flow 2:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 15.998 ms

Loss rate: 7.08%

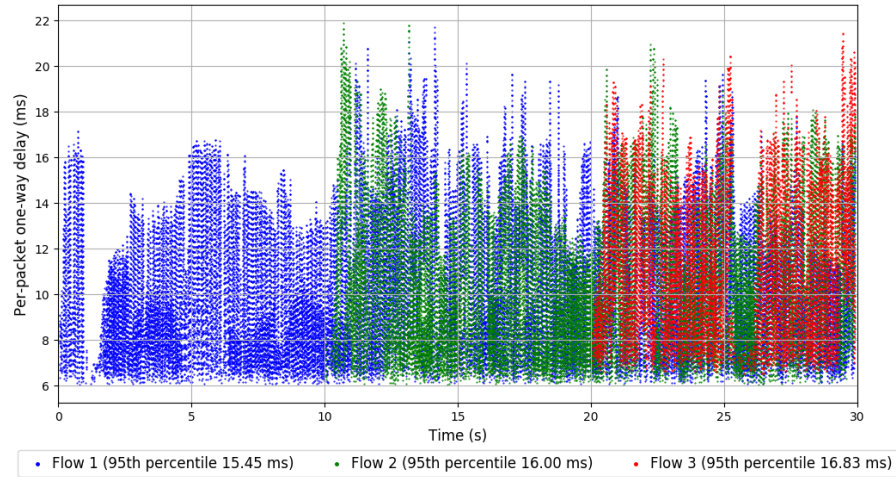
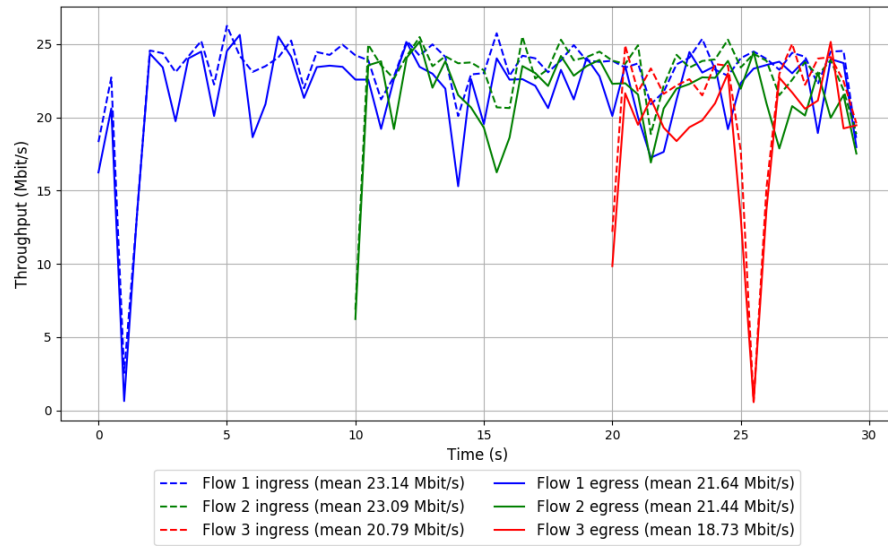
-- Flow 3:

Average throughput: 18.73 Mbit/s

95th percentile per-packet one-way delay: 16.834 ms

Loss rate: 9.89%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-12 08:39:20

End at: 2017-10-12 08:39:50

Local clock offset: 3.955 ms

Remote clock offset: 7.202 ms

Below is generated by plot.py at 2017-10-12 09:56:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.79 Mbit/s

95th percentile per-packet one-way delay: 15.086 ms

Loss rate: 7.94%

-- Flow 1:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 14.591 ms

Loss rate: 7.51%

-- Flow 2:

Average throughput: 21.48 Mbit/s

95th percentile per-packet one-way delay: 15.613 ms

Loss rate: 7.49%

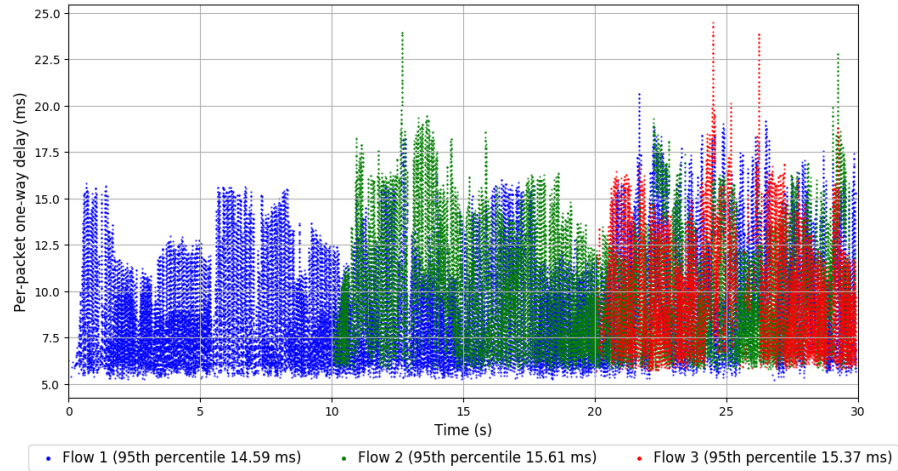
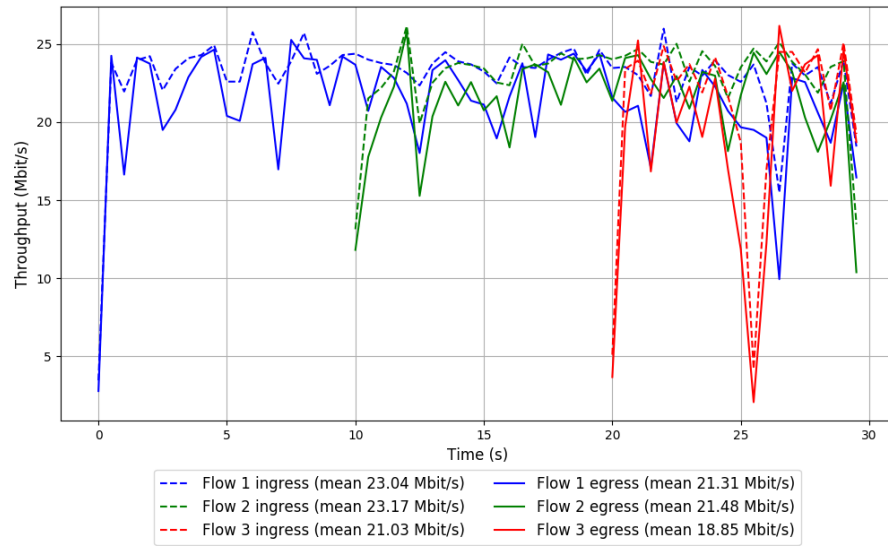
-- Flow 3:

Average throughput: 18.85 Mbit/s

95th percentile per-packet one-way delay: 15.370 ms

Loss rate: 10.36%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-12 08:55:35

End at: 2017-10-12 08:56:05

Local clock offset: 2.992 ms

Remote clock offset: 5.741 ms

Below is generated by plot.py at 2017-10-12 09:56:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.93 Mbit/s

95th percentile per-packet one-way delay: 16.391 ms

Loss rate: 6.07%

-- Flow 1:

Average throughput: 22.01 Mbit/s

95th percentile per-packet one-way delay: 15.984 ms

Loss rate: 6.31%

-- Flow 2:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 15.613 ms

Loss rate: 4.50%

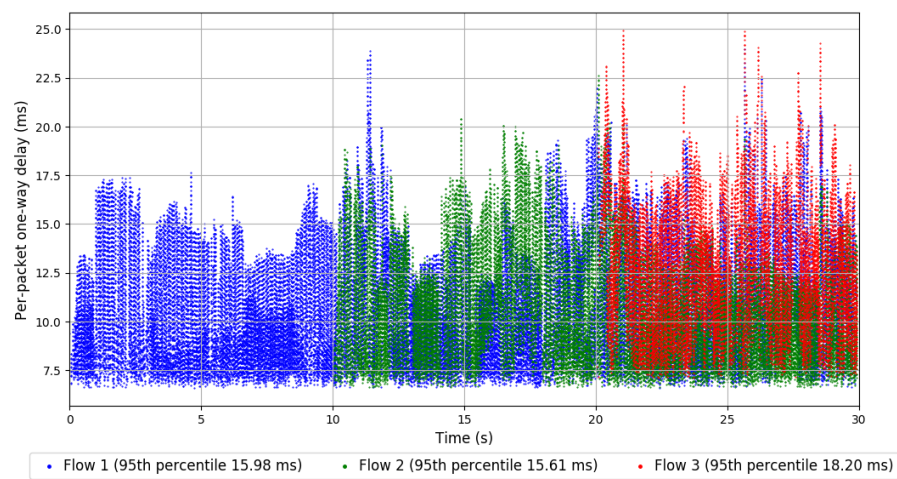
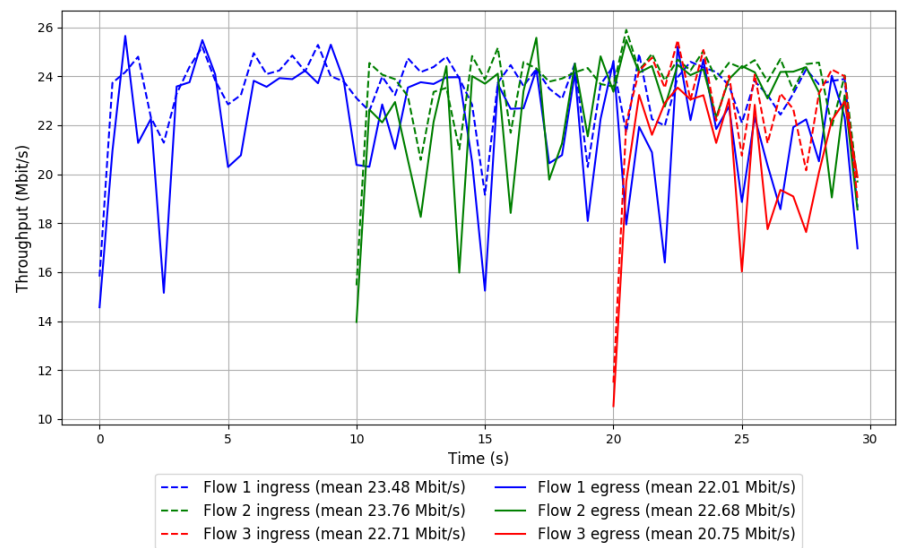
-- Flow 3:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 18.196 ms

Loss rate: 8.62%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-12 09:11:42

End at: 2017-10-12 09:12:12

Local clock offset: 1.245 ms

Remote clock offset: 5.115 ms

Below is generated by plot.py at 2017-10-12 09:56:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.72 Mbit/s

95th percentile per-packet one-way delay: 19.171 ms

Loss rate: 4.99%

-- Flow 1:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 19.298 ms

Loss rate: 6.12%

-- Flow 2:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 18.952 ms

Loss rate: 3.85%

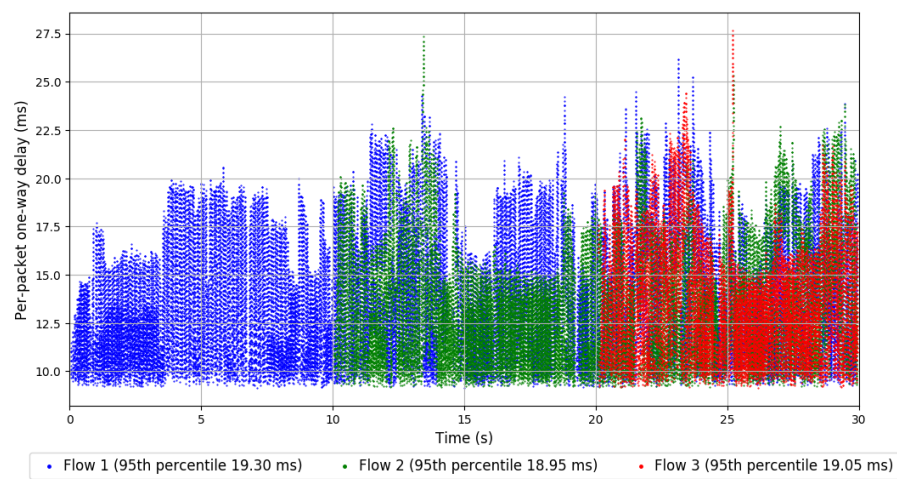
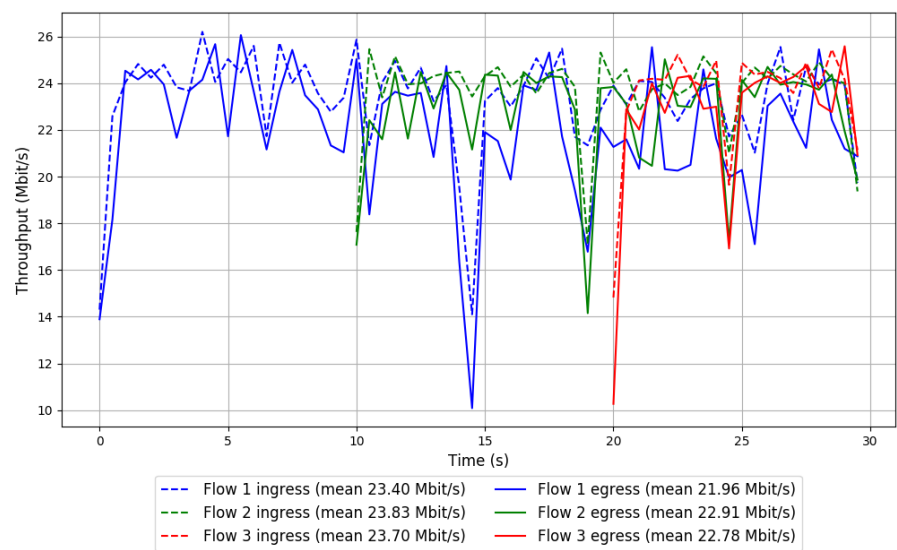
-- Flow 3:

Average throughput: 22.78 Mbit/s

95th percentile per-packet one-way delay: 19.052 ms

Loss rate: 3.90%

Run 10: Report of Sprout — Data Link

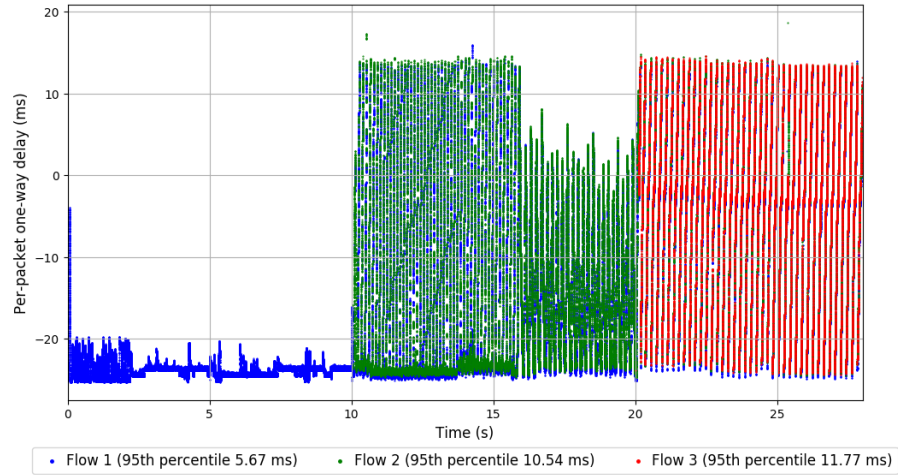
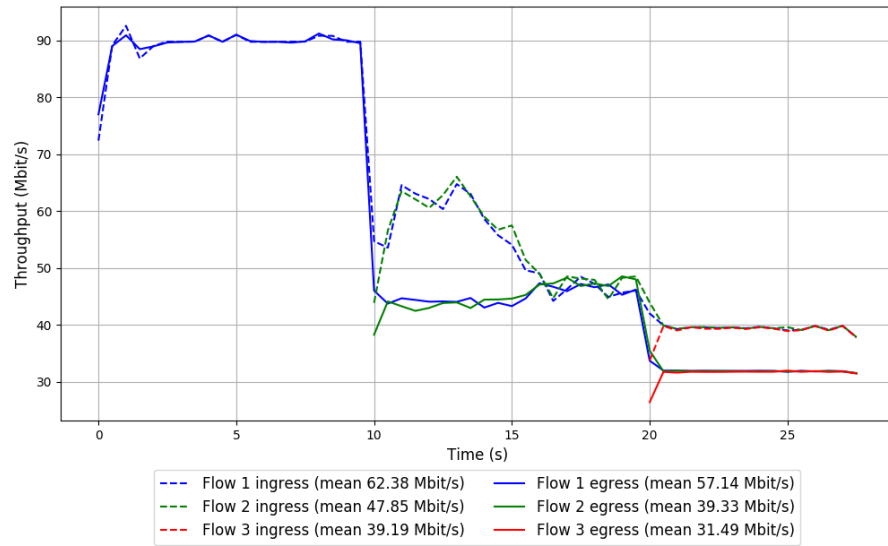


Run 1: Statistics of TaoVA-100x

Start at: 2017-10-12 06:43:32
End at: 2017-10-12 06:44:02
Local clock offset: 3.773 ms
Remote clock offset: -14.813 ms

Below is generated by plot.py at 2017-10-12 09:57:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 8.962 ms
Loss rate: 12.24%
-- Flow 1:
Average throughput: 57.14 Mbit/s
95th percentile per-packet one-way delay: 5.675 ms
Loss rate: 8.30%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 10.540 ms
Loss rate: 17.67%
-- Flow 3:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 11.771 ms
Loss rate: 19.30%

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

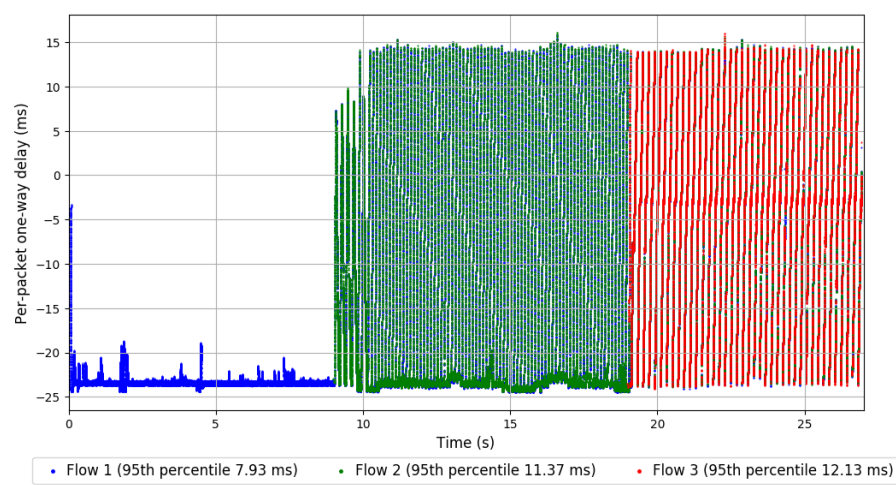
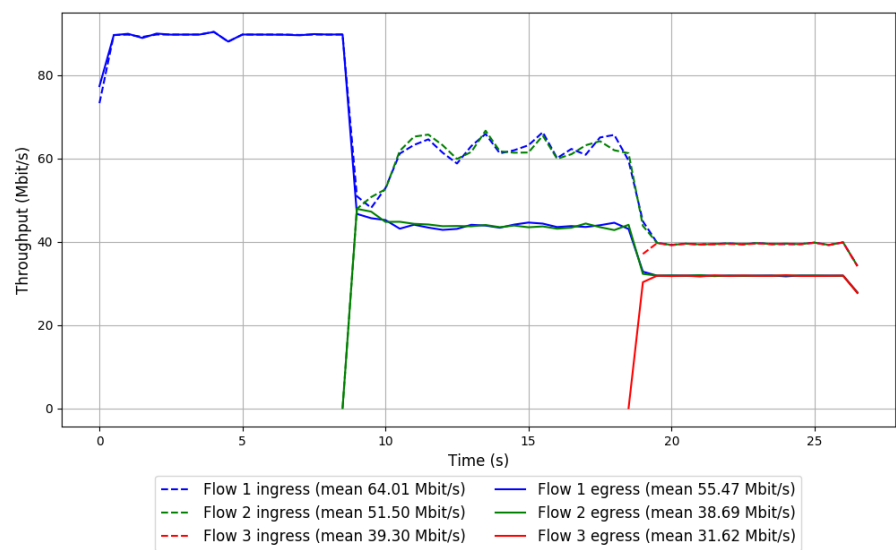


Run 2: Statistics of TaoVA-100x

Start at: 2017-10-12 07:02:04
End at: 2017-10-12 07:02:34
Local clock offset: 2.994 ms
Remote clock offset: -11.145 ms

Below is generated by plot.py at 2017-10-12 09:57:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 10.137 ms
Loss rate: 17.49%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 7.932 ms
Loss rate: 13.26%
-- Flow 2:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 11.373 ms
Loss rate: 24.79%
-- Flow 3:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 12.133 ms
Loss rate: 19.29%

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

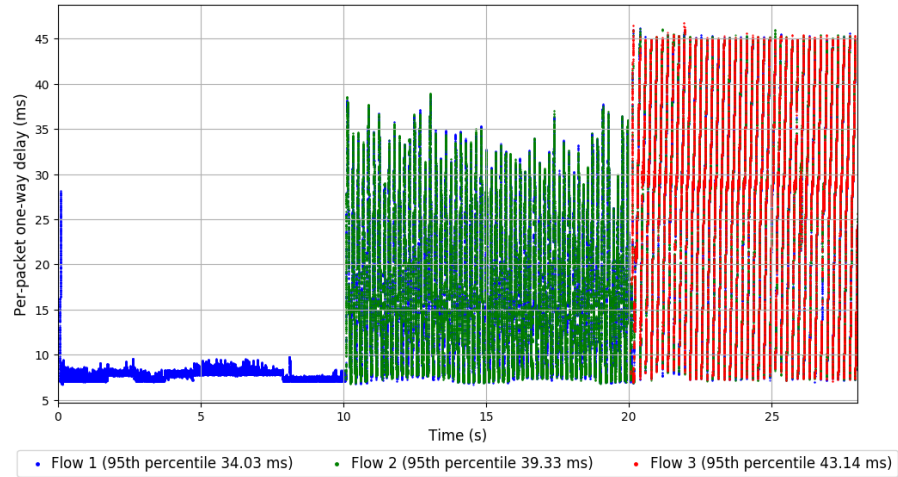
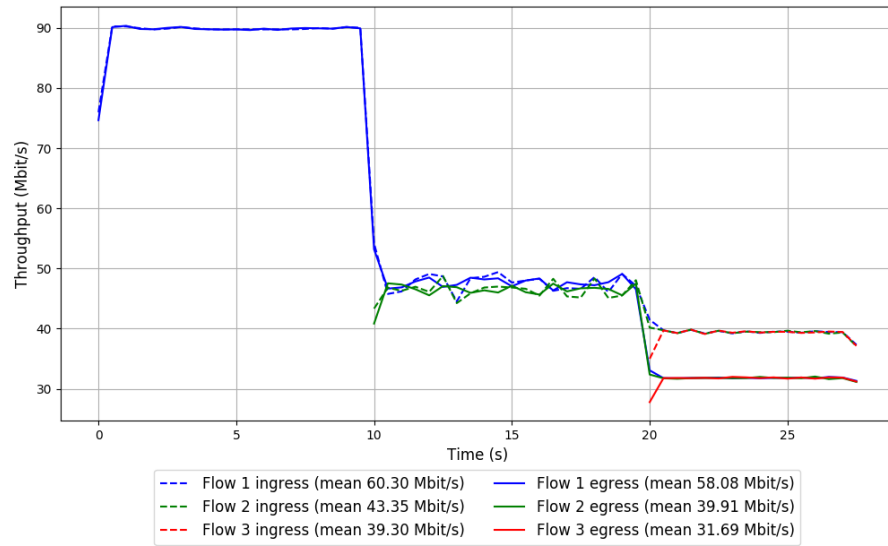


Run 3: Statistics of TaoVA-100x

Start at: 2017-10-12 07:18:46
End at: 2017-10-12 07:19:16
Local clock offset: 3.298 ms
Remote clock offset: 19.133 ms

Below is generated by plot.py at 2017-10-12 09:57:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 38.191 ms
Loss rate: 6.57%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 34.033 ms
Loss rate: 3.64%
-- Flow 2:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 39.329 ms
Loss rate: 7.85%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 43.142 ms
Loss rate: 19.22%

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

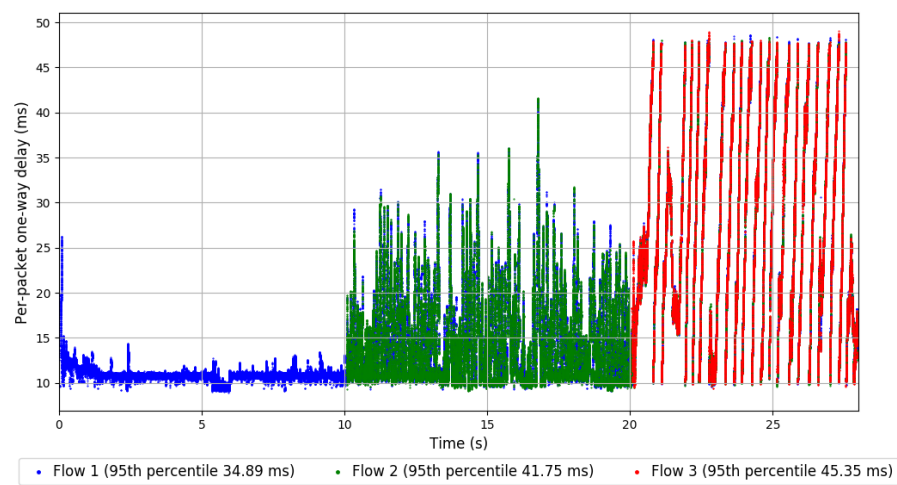
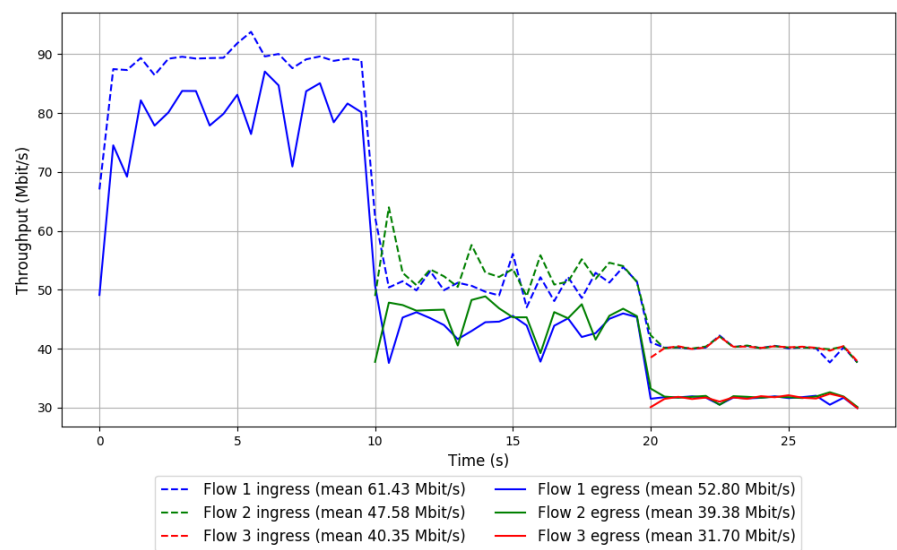


Run 4: Statistics of TaoVA-100x

Start at: 2017-10-12 07:35:20
End at: 2017-10-12 07:35:50
Local clock offset: 0.188 ms
Remote clock offset: 16.252 ms

Below is generated by plot.py at 2017-10-12 09:57:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 40.862 ms
Loss rate: 15.80%
-- Flow 1:
Average throughput: 52.80 Mbit/s
95th percentile per-packet one-way delay: 34.888 ms
Loss rate: 14.05%
-- Flow 2:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 41.750 ms
Loss rate: 17.23%
-- Flow 3:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 45.350 ms
Loss rate: 21.41%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-12 07:53:52

End at: 2017-10-12 07:54:22

Local clock offset: 0.953 ms

Remote clock offset: 12.99 ms

Below is generated by plot.py at 2017-10-12 09:58:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 38.056 ms

Loss rate: 14.92%

-- Flow 1:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 33.501 ms

Loss rate: 13.28%

-- Flow 2:

Average throughput: 39.11 Mbit/s

95th percentile per-packet one-way delay: 38.753 ms

Loss rate: 15.94%

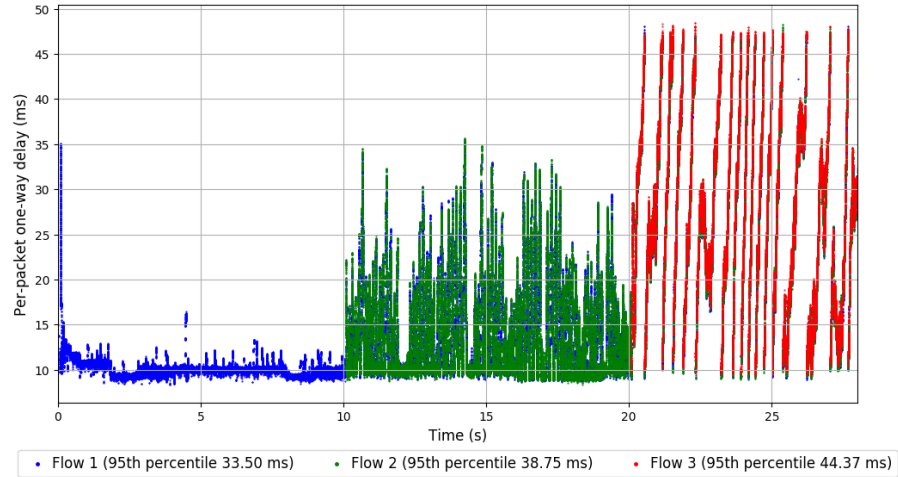
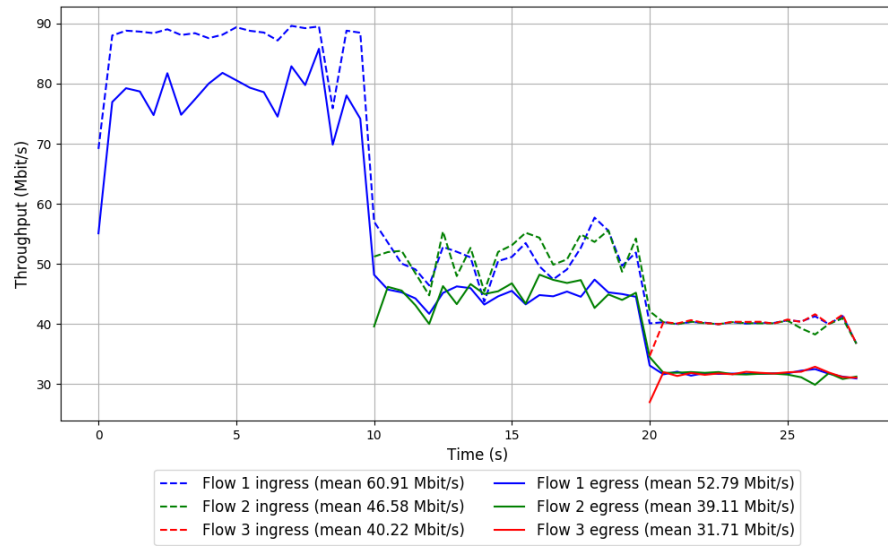
-- Flow 3:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 44.373 ms

Loss rate: 21.02%

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

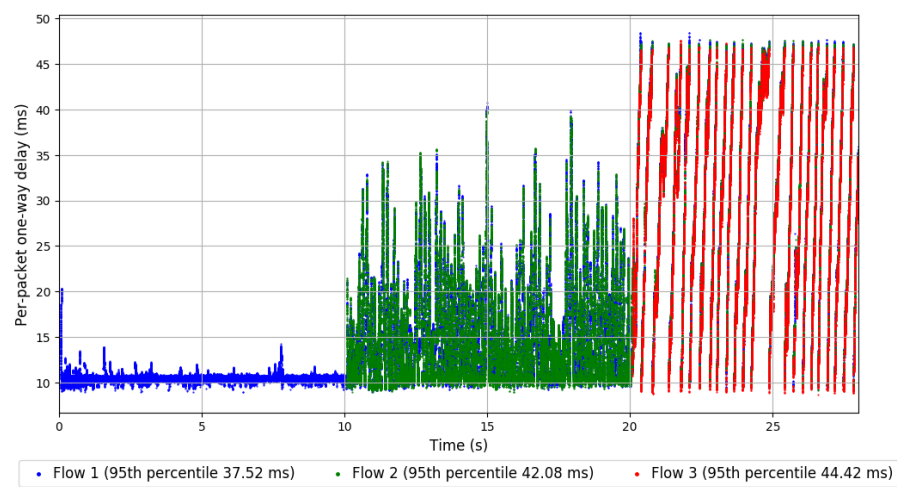
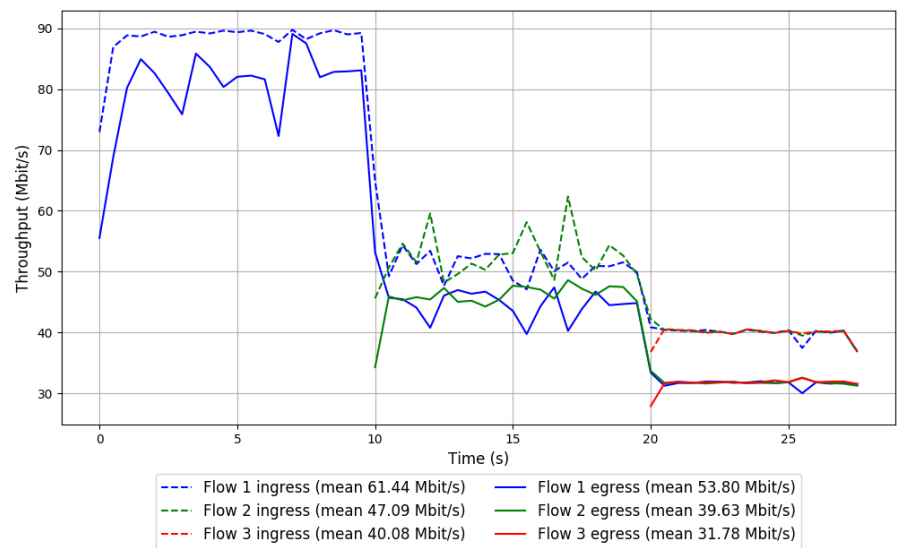


Run 6: Statistics of TaoVA-100x

Start at: 2017-10-12 08:12:40
End at: 2017-10-12 08:13:10
Local clock offset: 1.211 ms
Remote clock offset: 10.494 ms

Below is generated by plot.py at 2017-10-12 09:58:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 41.420 ms
Loss rate: 14.25%
-- Flow 1:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 37.523 ms
Loss rate: 12.36%
-- Flow 2:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 42.075 ms
Loss rate: 15.73%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 44.422 ms
Loss rate: 20.50%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-12 08:28:50

End at: 2017-10-12 08:29:20

Local clock offset: 1.828 ms

Remote clock offset: 9.421 ms

Below is generated by plot.py at 2017-10-12 09:58:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 38.717 ms

Loss rate: 15.44%

-- Flow 1:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 32.205 ms

Loss rate: 14.14%

-- Flow 2:

Average throughput: 41.00 Mbit/s

95th percentile per-packet one-way delay: 39.130 ms

Loss rate: 16.49%

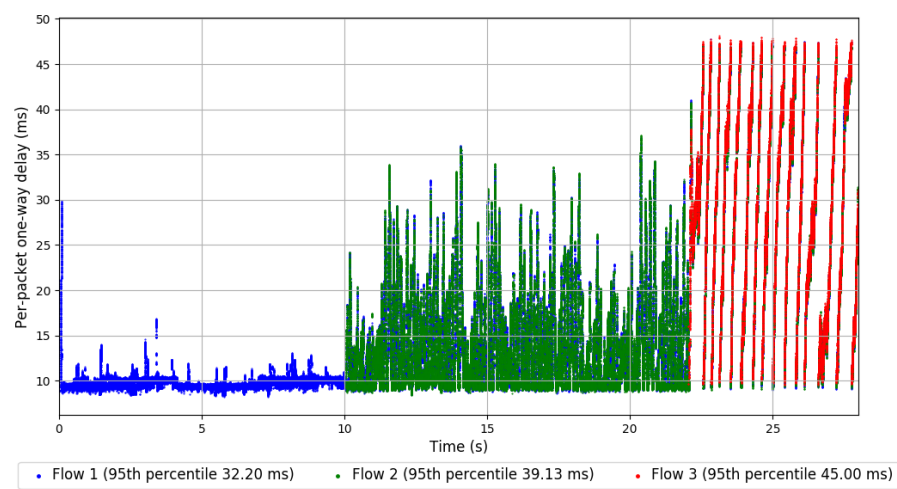
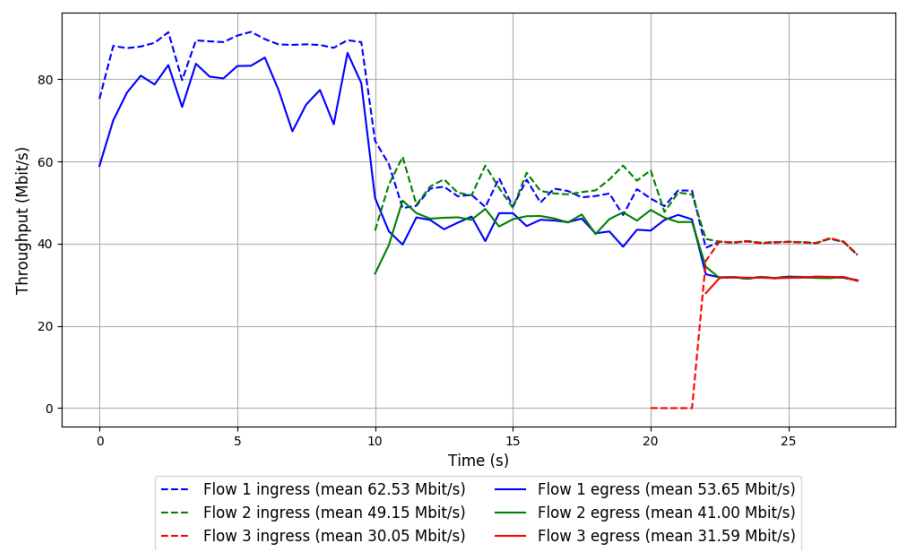
-- Flow 3:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 44.997 ms

Loss rate: 21.18%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-12 08:45:12

End at: 2017-10-12 08:45:42

Local clock offset: 1.722 ms

Remote clock offset: 6.852 ms

Below is generated by plot.py at 2017-10-12 09:58:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.85 Mbit/s

95th percentile per-packet one-way delay: 37.610 ms

Loss rate: 17.06%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 31.641 ms

Loss rate: 15.87%

-- Flow 2:

Average throughput: 40.37 Mbit/s

95th percentile per-packet one-way delay: 38.066 ms

Loss rate: 18.30%

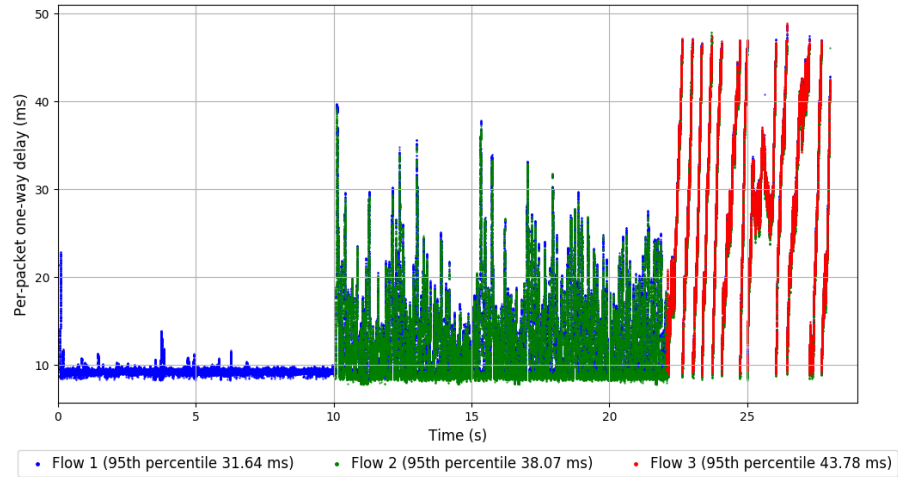
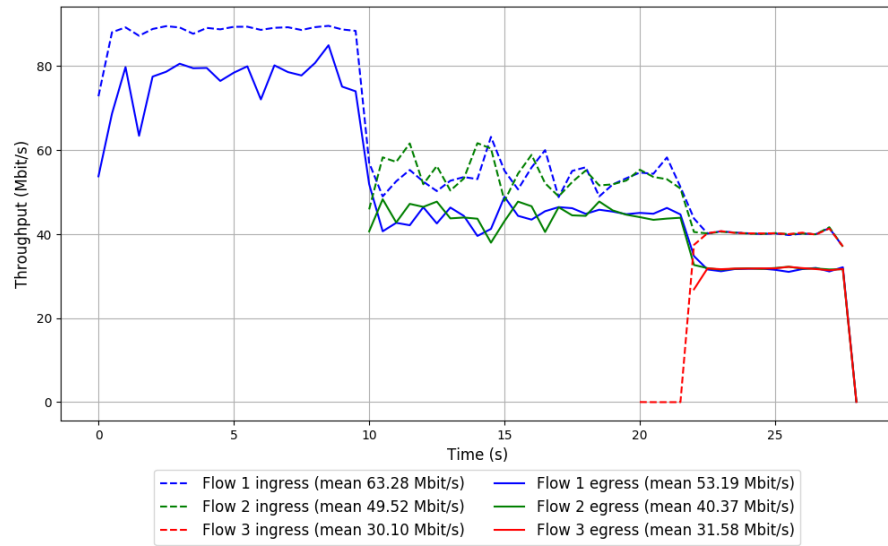
-- Flow 3:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 43.782 ms

Loss rate: 21.19%

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



Run 9: Statistics of TaoVA-100x

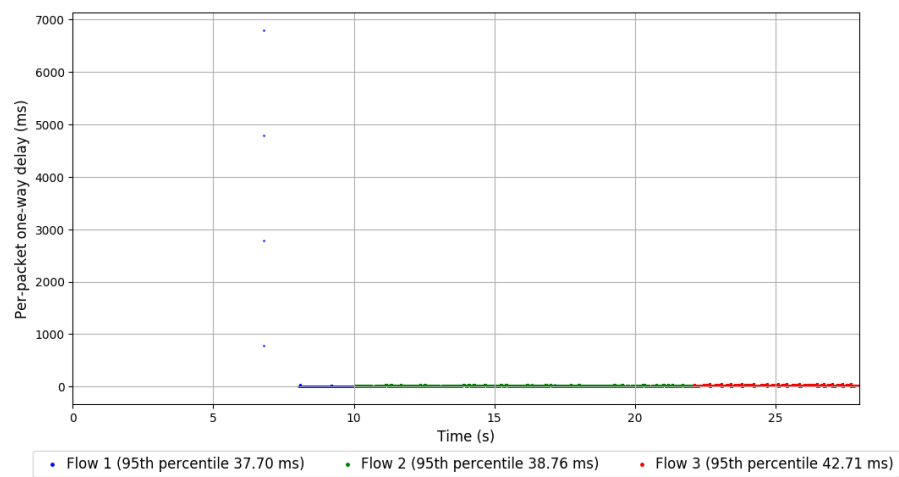
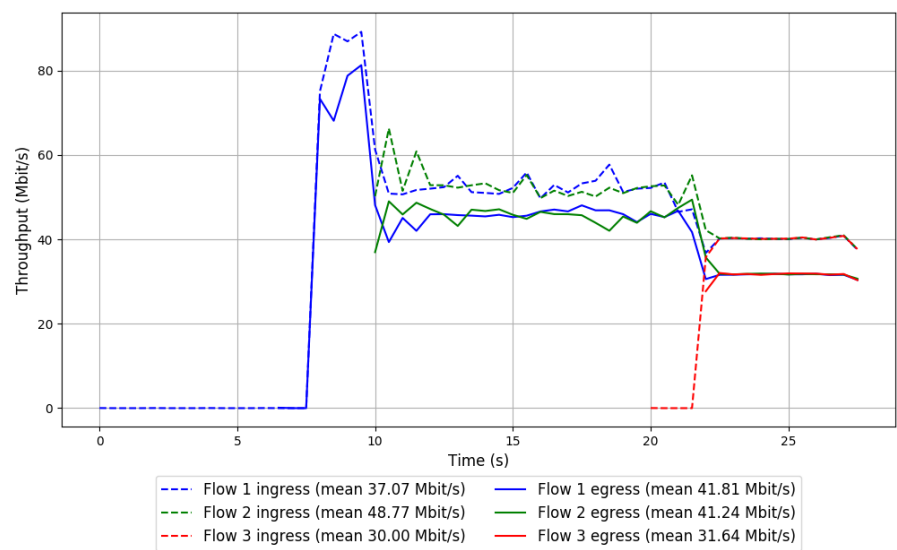
Start at: 2017-10-12 09:01:20

End at: 2017-10-12 09:01:50

Local clock offset: 2.684 ms

Remote clock offset: 5.385 ms

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

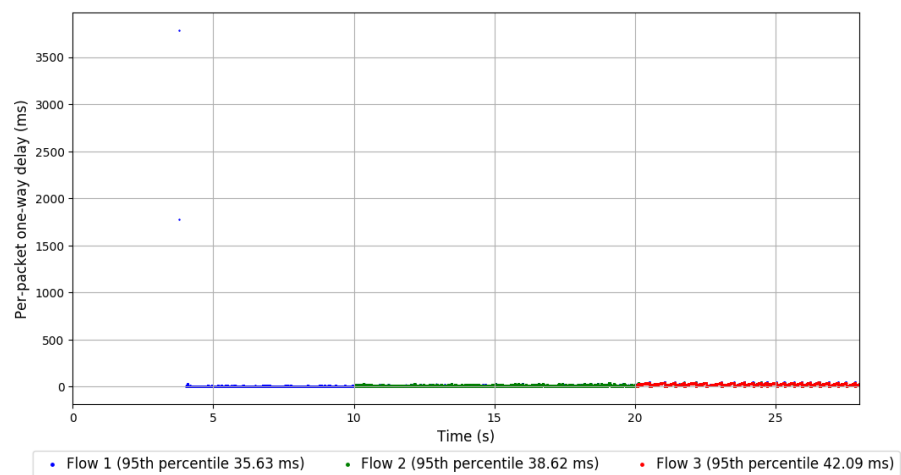
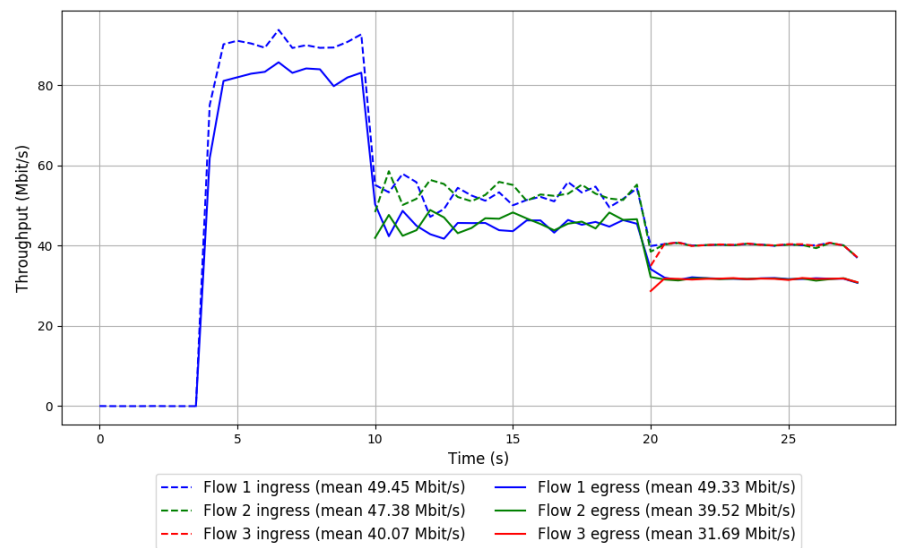


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-12 09:17:28
End at: 2017-10-12 09:17:58
Local clock offset: 4.199 ms
Remote clock offset: 4.98 ms

# Below is generated by plot.py at 2017-10-12 10:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 38.683 ms
Loss rate: 15.48%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 35.631 ms
Loss rate: 13.65%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 38.621 ms
Loss rate: 16.48%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 42.089 ms
Loss rate: 20.78%
```

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

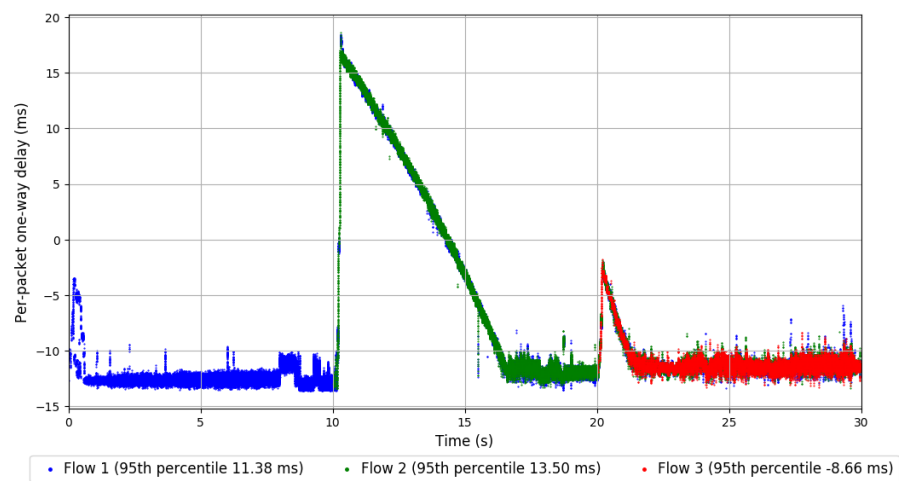
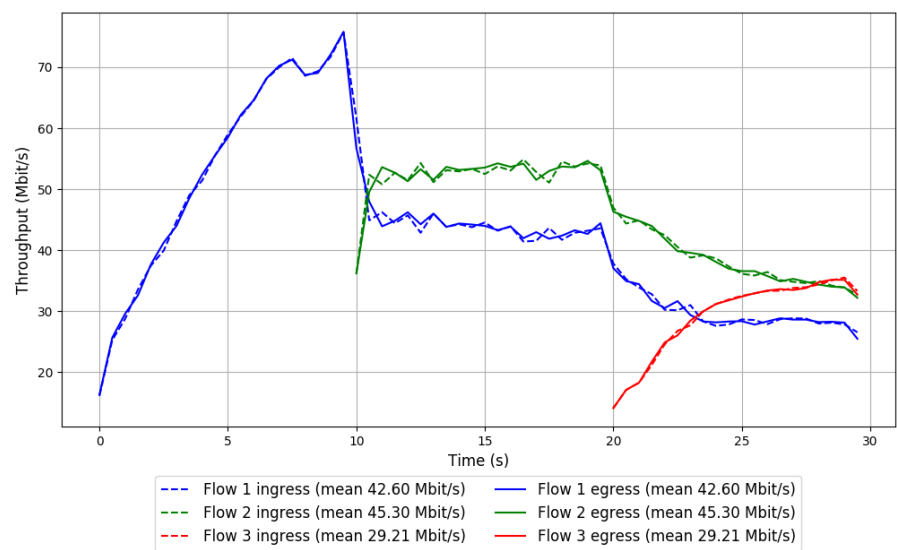


Run 1: Statistics of TCP Vegas

Start at: 2017-10-12 06:33:33
End at: 2017-10-12 06:34:03
Local clock offset: 1.997 ms
Remote clock offset: -18.153 ms

Below is generated by plot.py at 2017-10-12 10:00:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 11.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 11.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.30 Mbit/s
95th percentile per-packet one-way delay: 13.504 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: -8.665 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

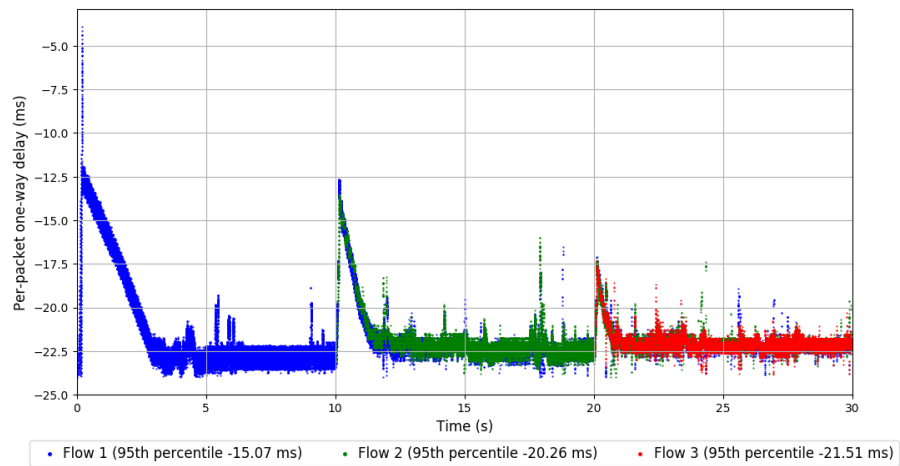
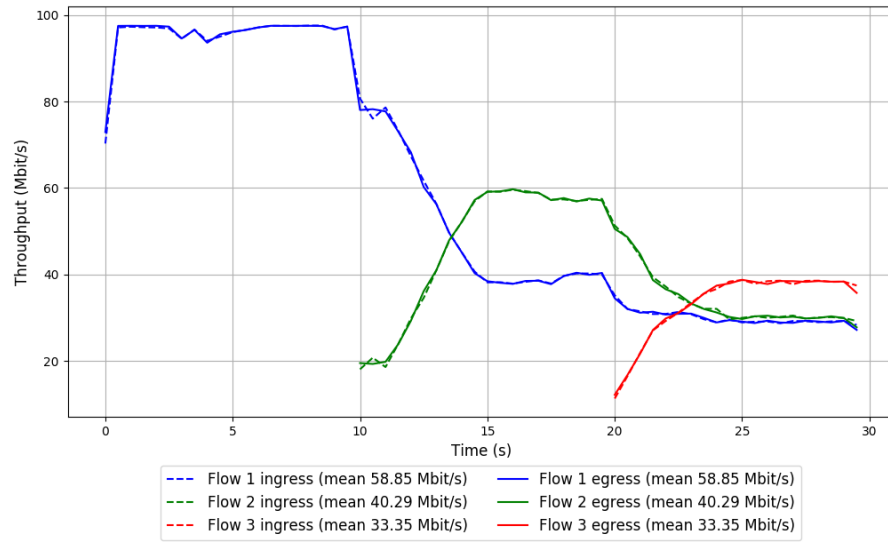


Run 2: Statistics of TCP Vegas

Start at: 2017-10-12 06:51:14
End at: 2017-10-12 06:51:44
Local clock offset: 3.699 ms
Remote clock offset: -12.29 ms

Below is generated by plot.py at 2017-10-12 10:00:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: -16.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.85 Mbit/s
95th percentile per-packet one-way delay: -15.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: -20.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.35 Mbit/s
95th percentile per-packet one-way delay: -21.512 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

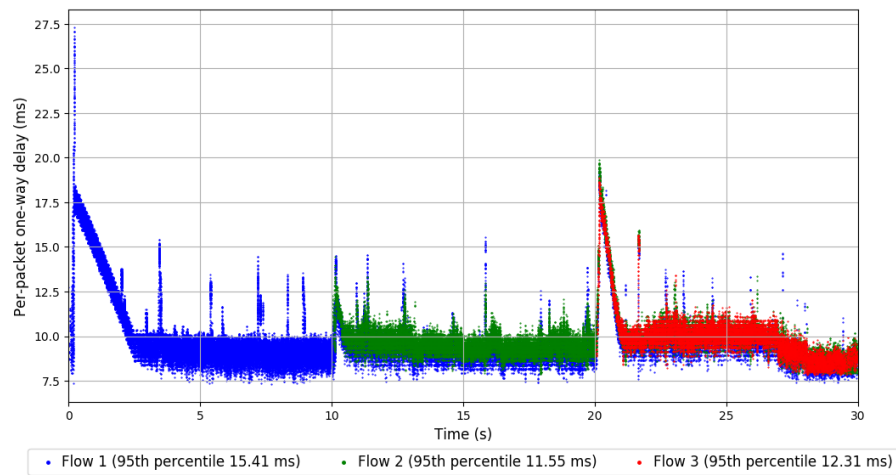
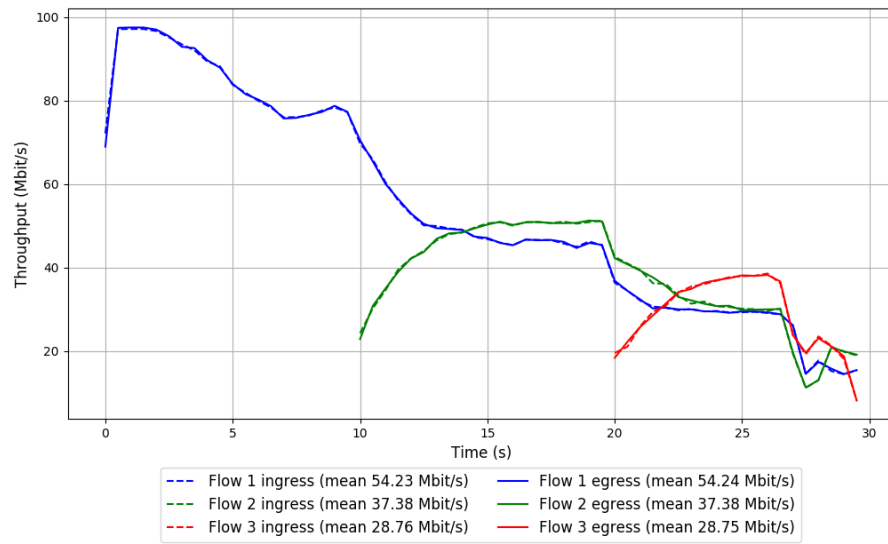


Run 3: Statistics of TCP Vegas

Start at: 2017-10-12 07:09:28
End at: 2017-10-12 07:09:58
Local clock offset: 1.745 ms
Remote clock offset: 20.611 ms

Below is generated by plot.py at 2017-10-12 10:00:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.67 Mbit/s
95th percentile per-packet one-way delay: 14.577 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 15.408 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.38 Mbit/s
95th percentile per-packet one-way delay: 11.555 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 12.311 ms
Loss rate: 0.03%

Run 3: Report of TCP Vegas — Data Link

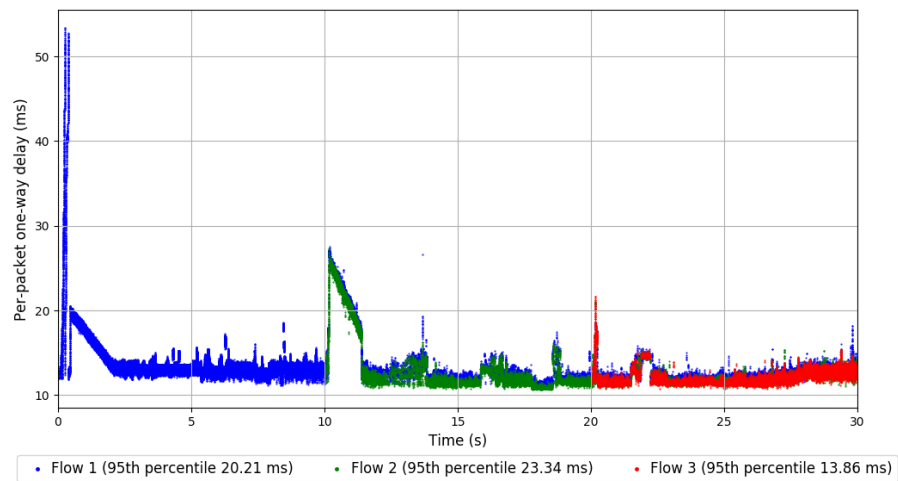
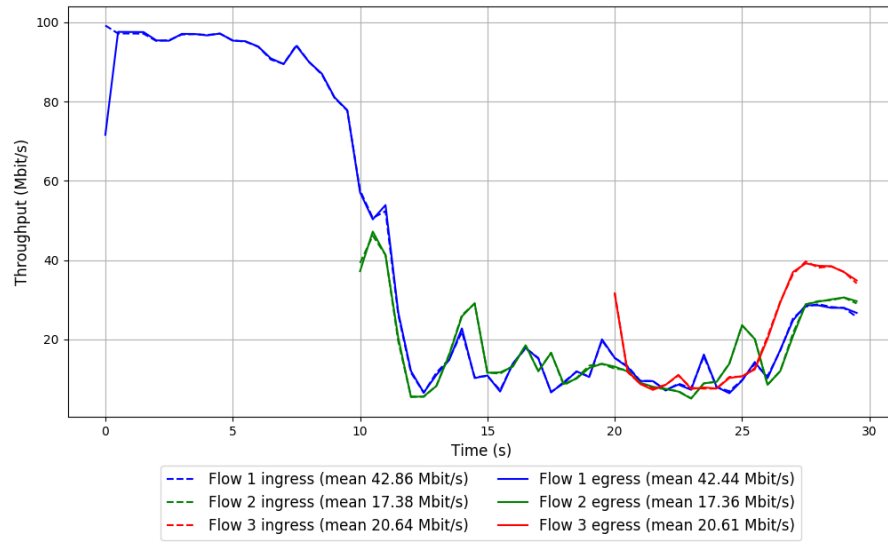


Run 4: Statistics of TCP Vegas

Start at: 2017-10-12 07:26:06
End at: 2017-10-12 07:26:36
Local clock offset: 0.502 ms
Remote clock offset: 19.621 ms

```
# Below is generated by plot.py at 2017-10-12 10:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 20.918 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 20.212 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 17.36 Mbit/s
95th percentile per-packet one-way delay: 23.335 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 13.855 ms
Loss rate: 0.11%
```

Run 4: Report of TCP Vegas — Data Link

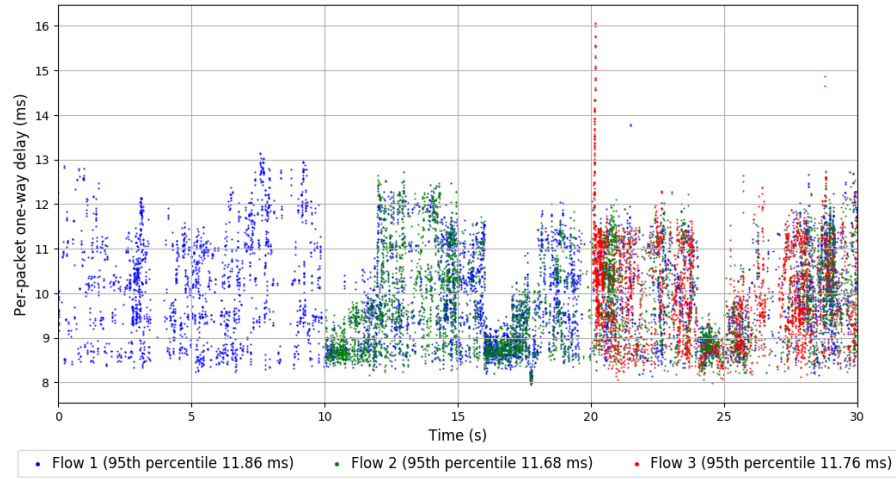
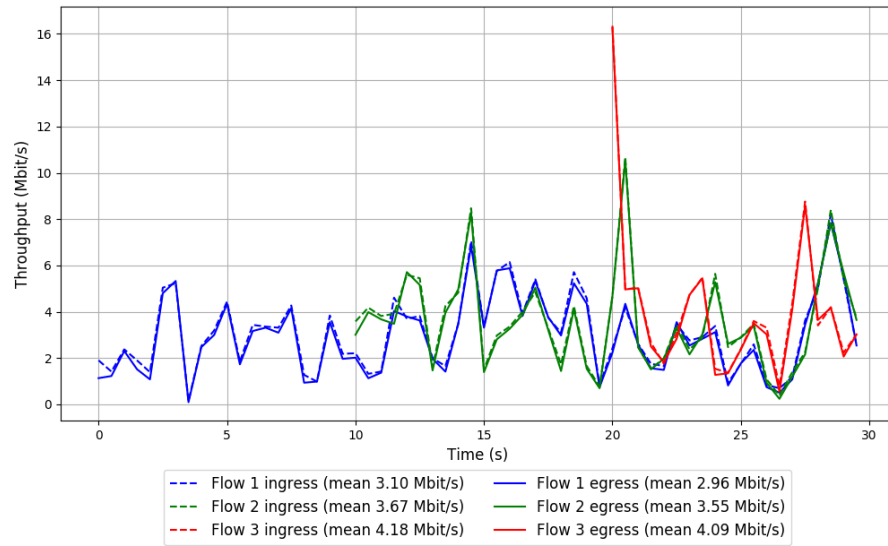


Run 5: Statistics of TCP Vegas

Start at: 2017-10-12 07:42:37
End at: 2017-10-12 07:43:07
Local clock offset: 0.803 ms
Remote clock offset: 14.685 ms

Below is generated by plot.py at 2017-10-12 10:00:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 11.806 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 11.863 ms
Loss rate: 4.64%
-- Flow 2:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 11.682 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 11.761 ms
Loss rate: 2.17%

Run 5: Report of TCP Vegas — Data Link

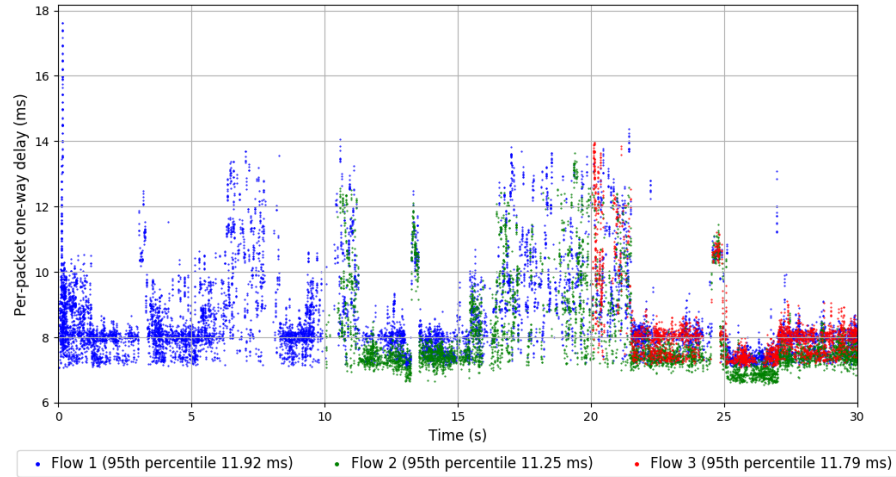
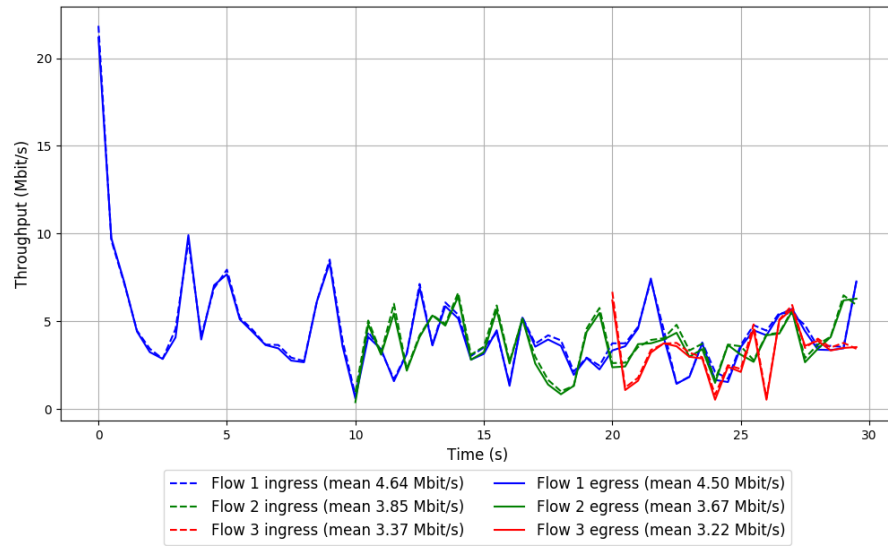


Run 6: Statistics of TCP Vegas

Start at: 2017-10-12 08:01:01
End at: 2017-10-12 08:01:31
Local clock offset: 3.058 ms
Remote clock offset: 12.209 ms

```
# Below is generated by plot.py at 2017-10-12 10:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 11.602 ms
Loss rate: 3.71%
-- Flow 1:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 11.921 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 11.248 ms
Loss rate: 4.70%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 11.788 ms
Loss rate: 4.45%
```


Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-12 08:19:43

End at: 2017-10-12 08:20:13

Local clock offset: 3.414 ms

Remote clock offset: 9.273 ms

Below is generated by plot.py at 2017-10-12 10:00:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 9.512 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 9.870 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 9.020 ms

Loss rate: 1.77%

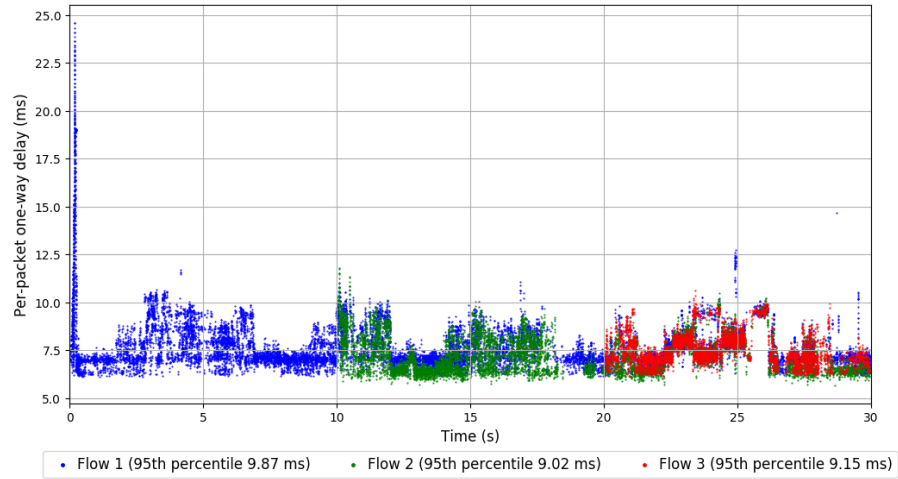
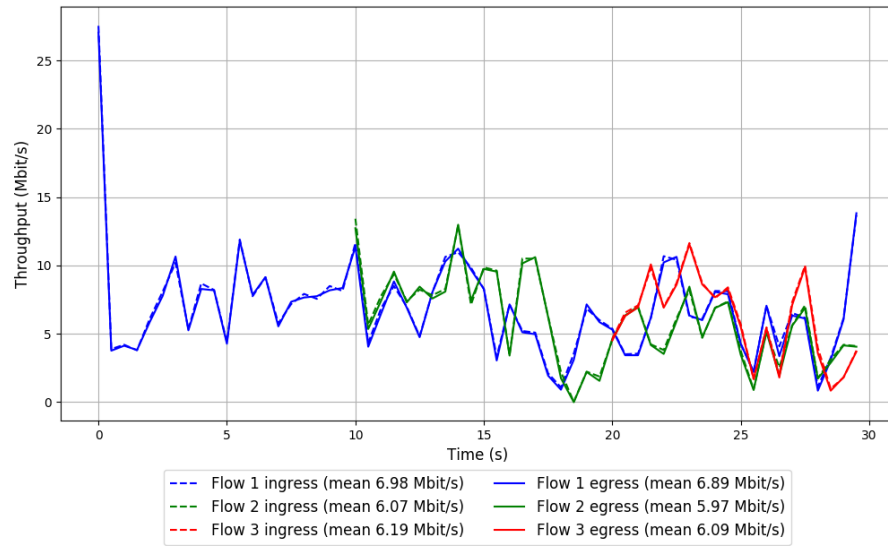
-- Flow 3:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 9.152 ms

Loss rate: 1.60%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-12 08:35:59

End at: 2017-10-12 08:36:29

Local clock offset: -4.677 ms

Remote clock offset: 7.669 ms

Below is generated by plot.py at 2017-10-12 10:00:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.33 Mbit/s

95th percentile per-packet one-way delay: 16.234 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 16.190 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 15.925 ms

Loss rate: 3.44%

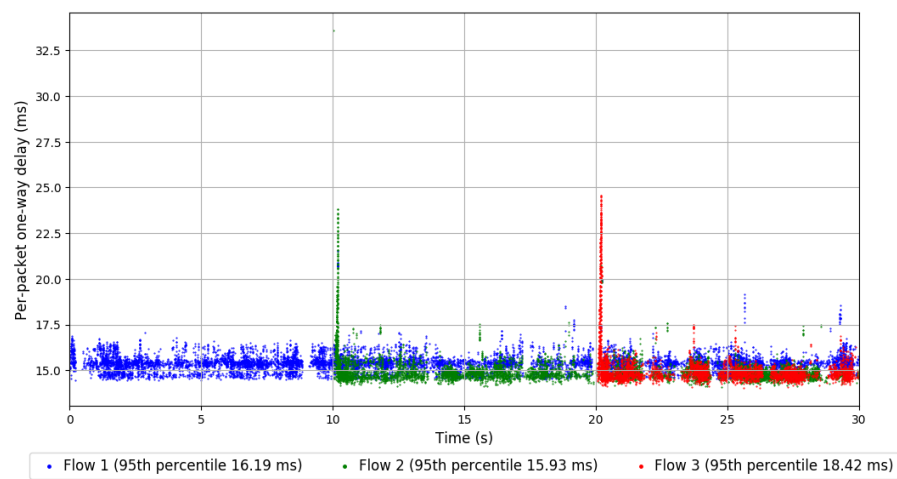
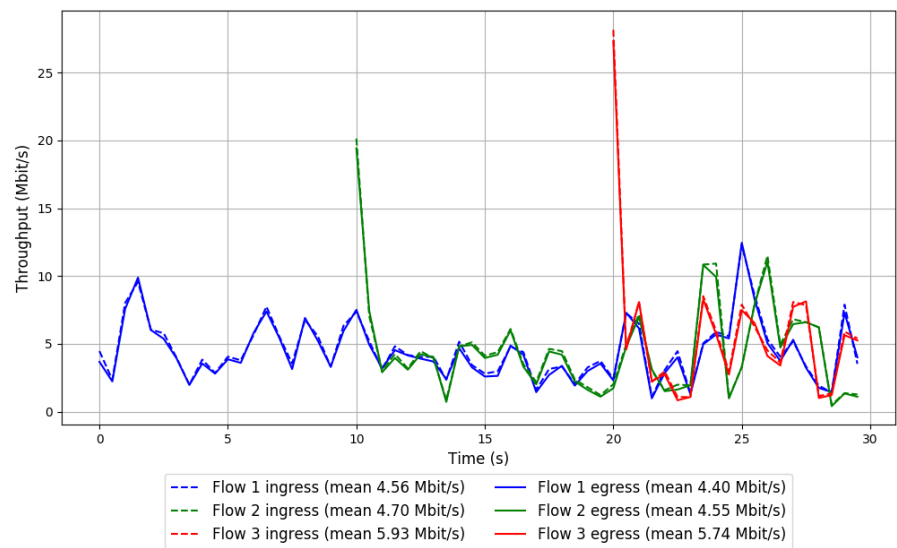
-- Flow 3:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 18.417 ms

Loss rate: 3.08%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-12 08:52:15

End at: 2017-10-12 08:52:45

Local clock offset: 3.715 ms

Remote clock offset: 5.727 ms

Below is generated by plot.py at 2017-10-12 10:00:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 7.219 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 7.323 ms

Loss rate: 2.61%

-- Flow 2:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: 6.865 ms

Loss rate: 3.17%

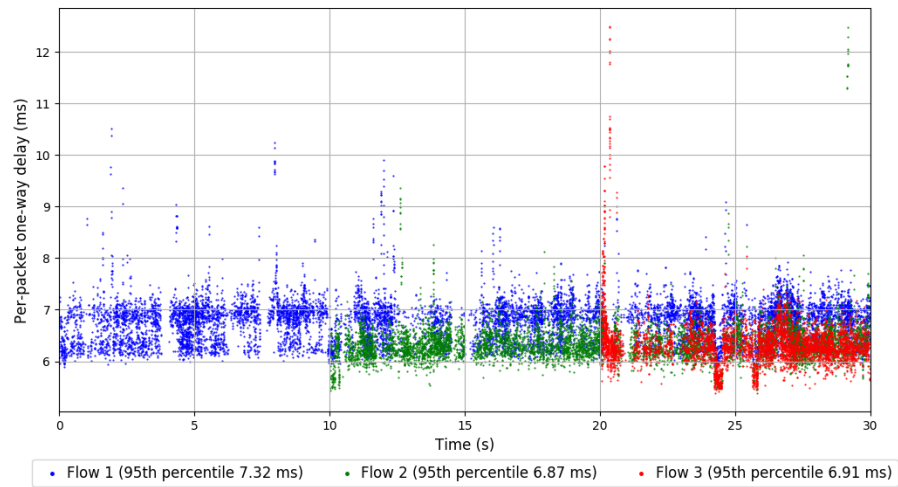
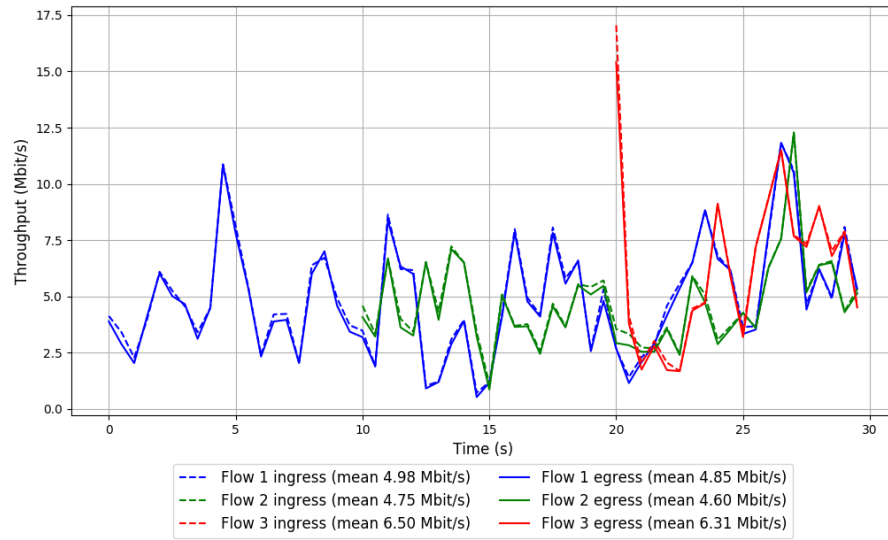
-- Flow 3:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 6.912 ms

Loss rate: 2.91%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-12 09:08:22

End at: 2017-10-12 09:08:52

Local clock offset: 1.162 ms

Remote clock offset: 6.228 ms

Below is generated by plot.py at 2017-10-12 10:00:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.19 Mbit/s

95th percentile per-packet one-way delay: 12.828 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 12.513 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 13.181 ms

Loss rate: 1.55%

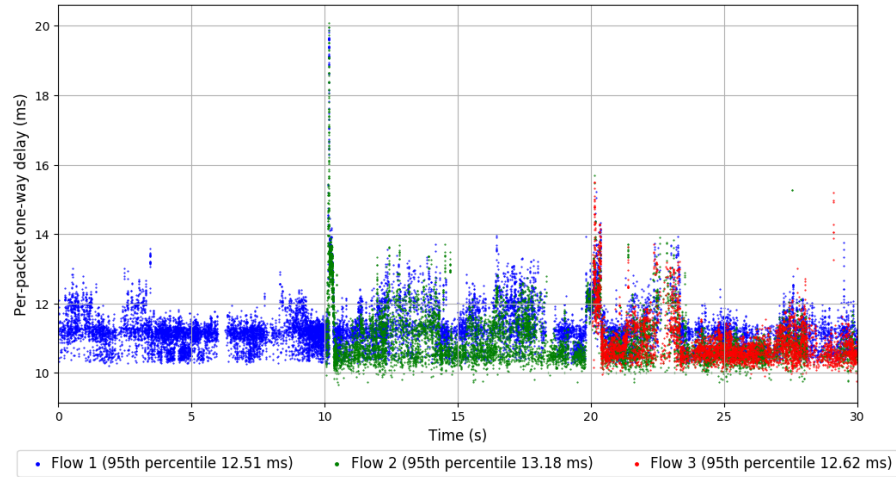
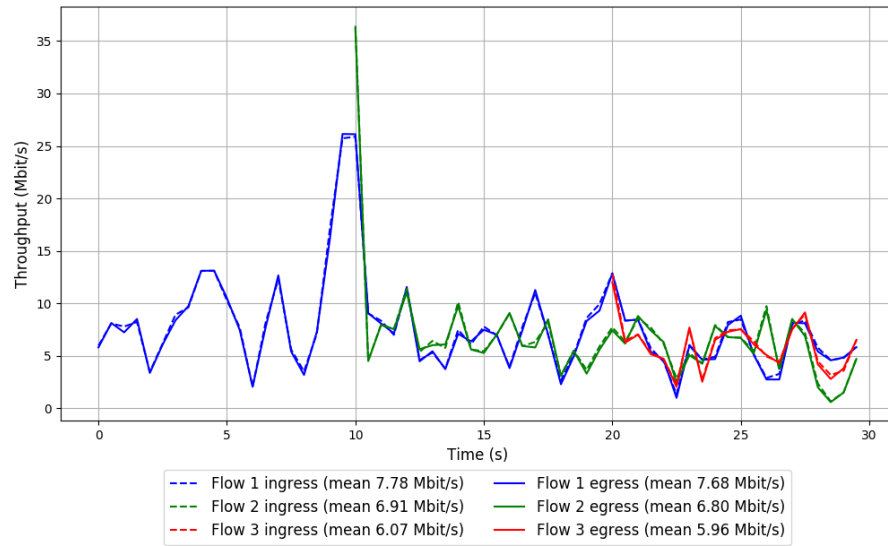
-- Flow 3:

Average throughput: 5.96 Mbit/s

95th percentile per-packet one-way delay: 12.621 ms

Loss rate: 1.81%

Run 10: Report of TCP Vegas — Data Link

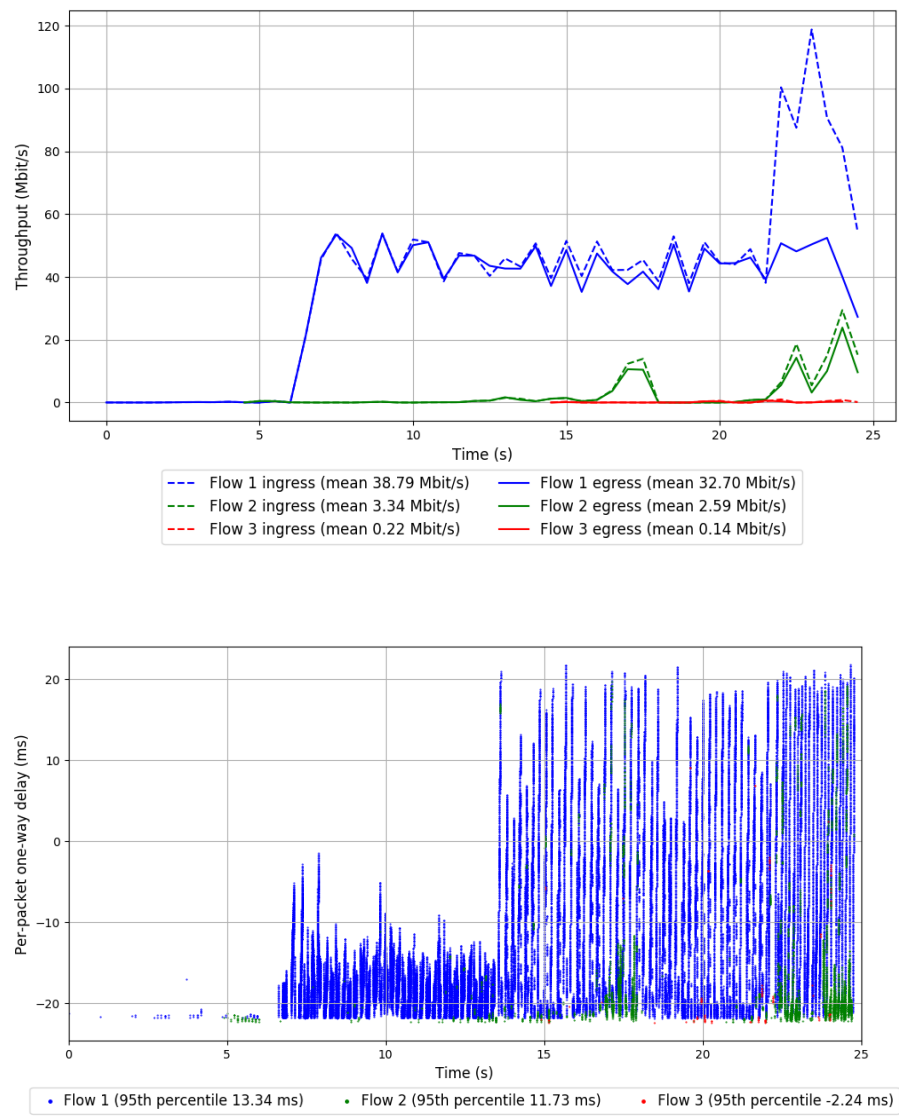


Run 1: Statistics of Verus

Start at: 2017-10-12 06:44:46
End at: 2017-10-12 06:45:16
Local clock offset: 0.696 ms
Remote clock offset: -14.644 ms

Below is generated by plot.py at 2017-10-12 10:00:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.83 Mbit/s
95th percentile per-packet one-way delay: 13.285 ms
Loss rate: 16.09%
-- Flow 1:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 13.335 ms
Loss rate: 15.61%
-- Flow 2:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 11.728 ms
Loss rate: 22.27%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: -2.244 ms
Loss rate: 38.12%

Run 1: Report of Verus — Data Link

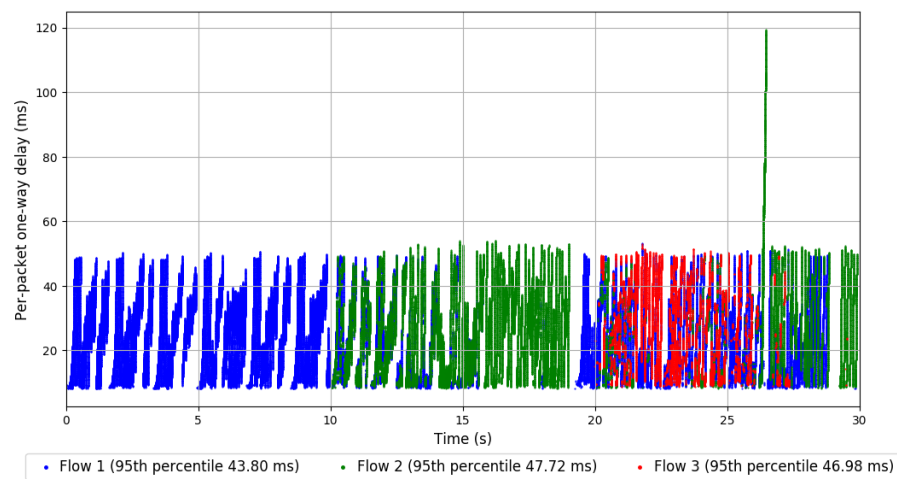
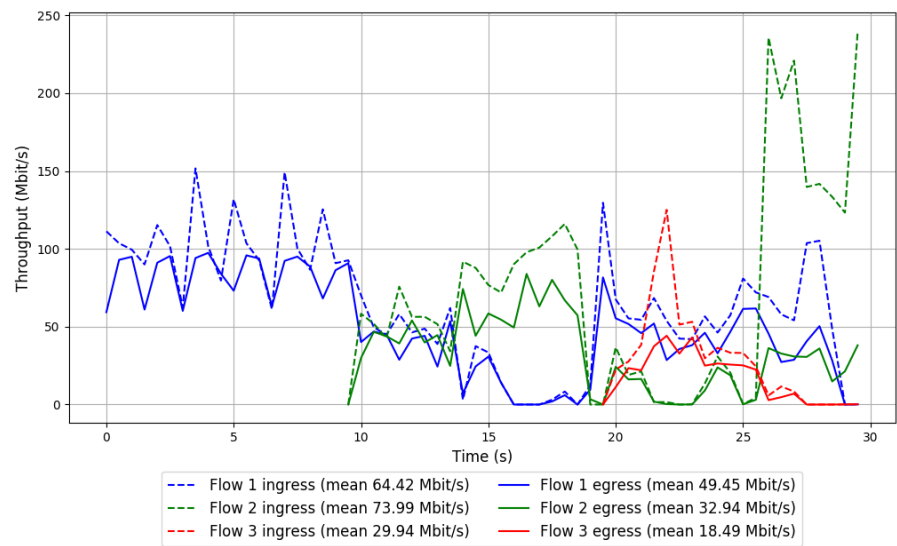


Run 2: Statistics of Verus

Start at: 2017-10-12 07:03:19
End at: 2017-10-12 07:03:49
Local clock offset: 0.856 ms
Remote clock offset: 19.538 ms

Below is generated by plot.py at 2017-10-12 10:00:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 45.334 ms
Loss rate: 37.39%
-- Flow 1:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 43.805 ms
Loss rate: 23.16%
-- Flow 2:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 47.718 ms
Loss rate: 55.47%
-- Flow 3:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 46.985 ms
Loss rate: 39.79%

Run 2: Report of Verus — Data Link

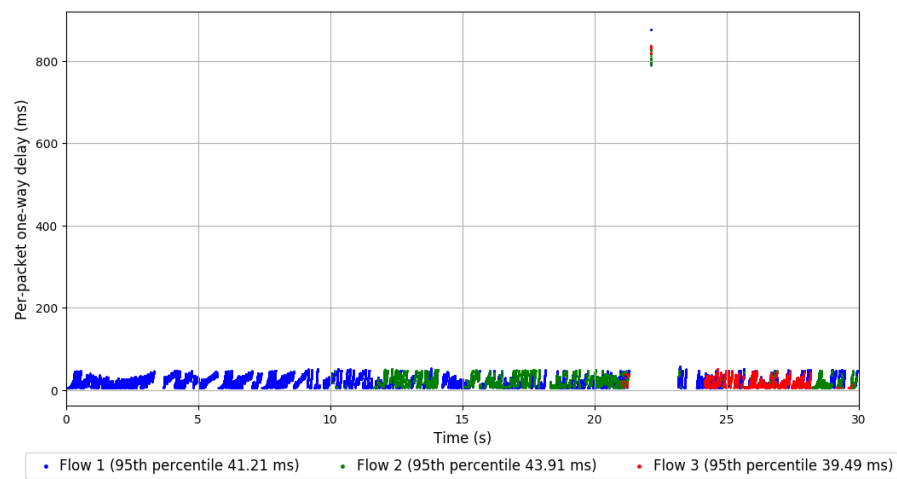
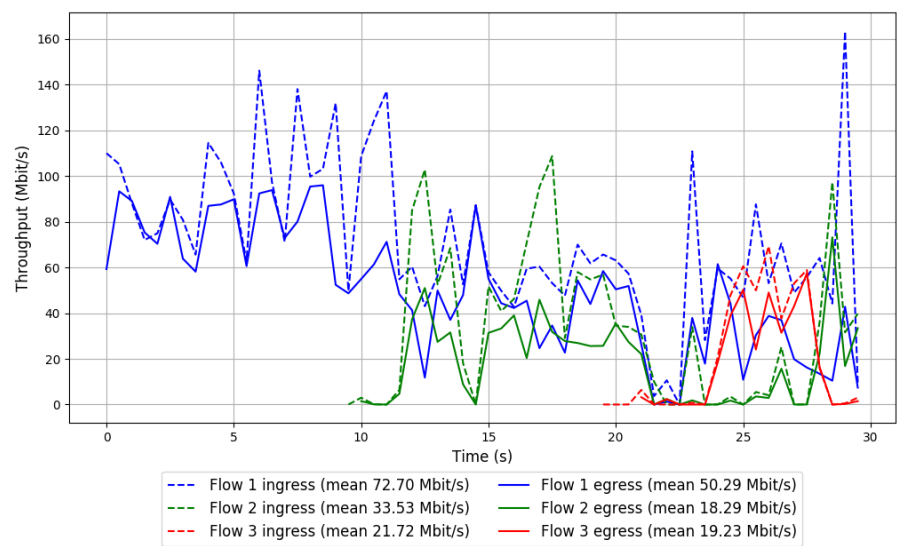


Run 3: Statistics of Verus

Start at: 2017-10-12 07:20:01
End at: 2017-10-12 07:20:31
Local clock offset: 4.358 ms
Remote clock offset: 19.307 ms

Below is generated by plot.py at 2017-10-12 10:00:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.07 Mbit/s
95th percentile per-packet one-way delay: 41.765 ms
Loss rate: 33.25%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 41.206 ms
Loss rate: 30.73%
-- Flow 2:
Average throughput: 18.29 Mbit/s
95th percentile per-packet one-way delay: 43.909 ms
Loss rate: 45.41%
-- Flow 3:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 39.494 ms
Loss rate: 20.81%

Run 3: Report of Verus — Data Link

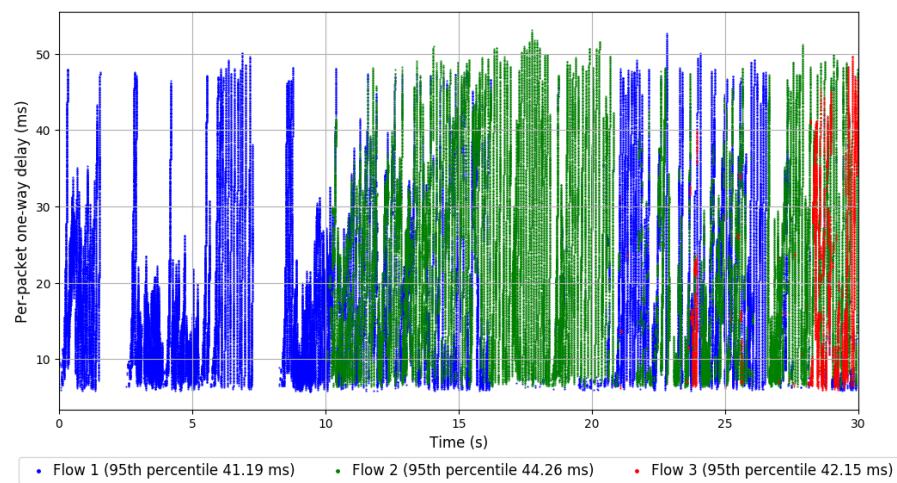
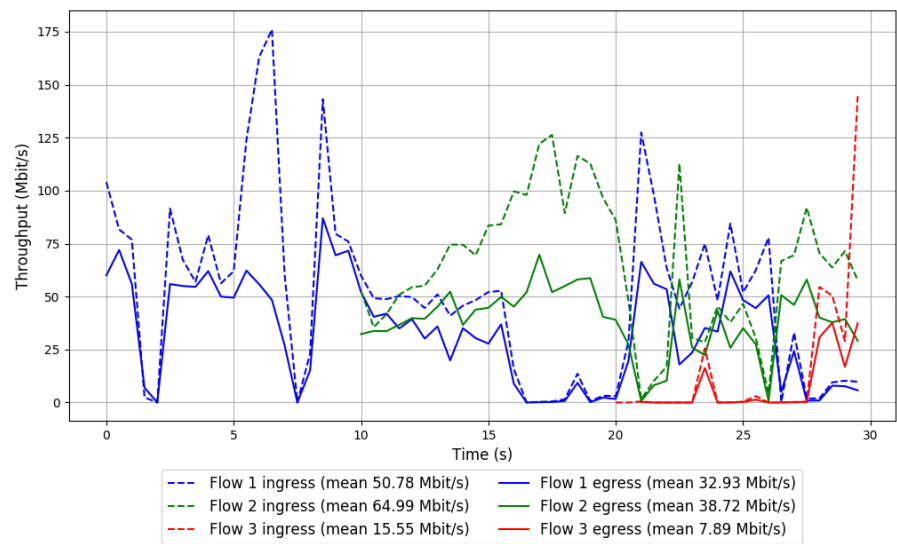


Run 4: Statistics of Verus

Start at: 2017-10-12 07:36:34
End at: 2017-10-12 07:37:04
Local clock offset: 4.084 ms
Remote clock offset: 16.657 ms

```
# Below is generated by plot.py at 2017-10-12 10:00:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 42.948 ms
Loss rate: 38.43%
-- Flow 1:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 41.194 ms
Loss rate: 35.19%
-- Flow 2:
Average throughput: 38.72 Mbit/s
95th percentile per-packet one-way delay: 44.261 ms
Loss rate: 40.35%
-- Flow 3:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 42.145 ms
Loss rate: 54.34%
```


Run 4: Report of Verus — Data Link

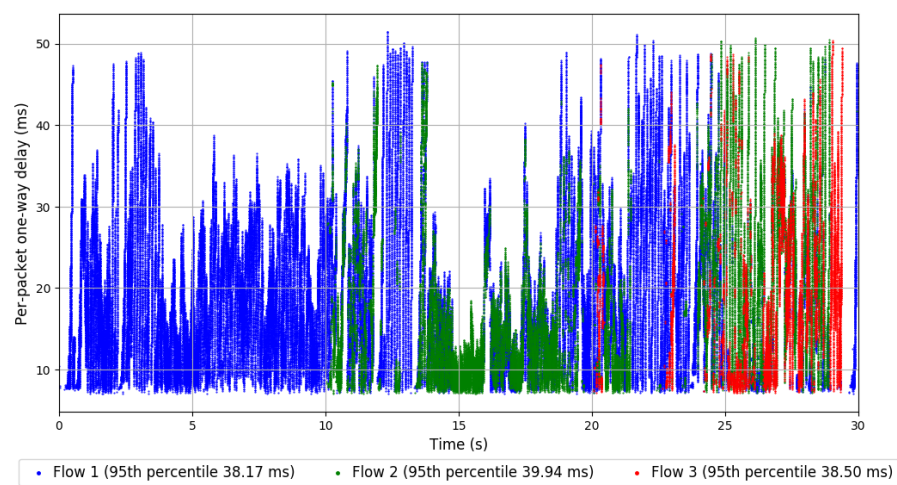
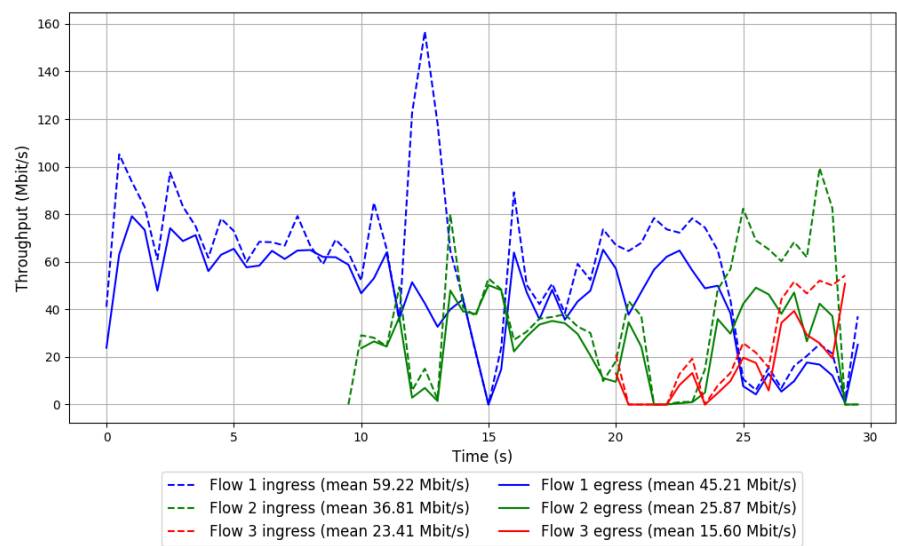


Run 5: Statistics of Verus

Start at: 2017-10-12 07:55:12
End at: 2017-10-12 07:55:42
Local clock offset: 2.566 ms
Remote clock offset: 13.057 ms

Below is generated by plot.py at 2017-10-12 10:00:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 38.742 ms
Loss rate: 26.02%
-- Flow 1:
Average throughput: 45.21 Mbit/s
95th percentile per-packet one-way delay: 38.172 ms
Loss rate: 23.65%
-- Flow 2:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 39.941 ms
Loss rate: 29.62%
-- Flow 3:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 38.498 ms
Loss rate: 33.24%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-12 08:13:55

End at: 2017-10-12 08:14:25

Local clock offset: 1.851 ms

Remote clock offset: 9.949 ms

Below is generated by plot.py at 2017-10-12 10:00:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 43.144 ms

Loss rate: 41.15%

-- Flow 1:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 39.784 ms

Loss rate: 25.34%

-- Flow 2:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 45.976 ms

Loss rate: 54.18%

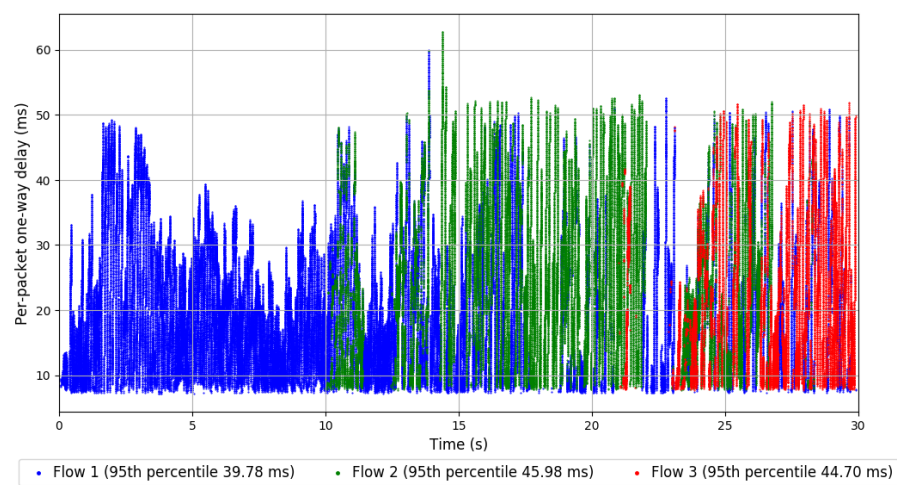
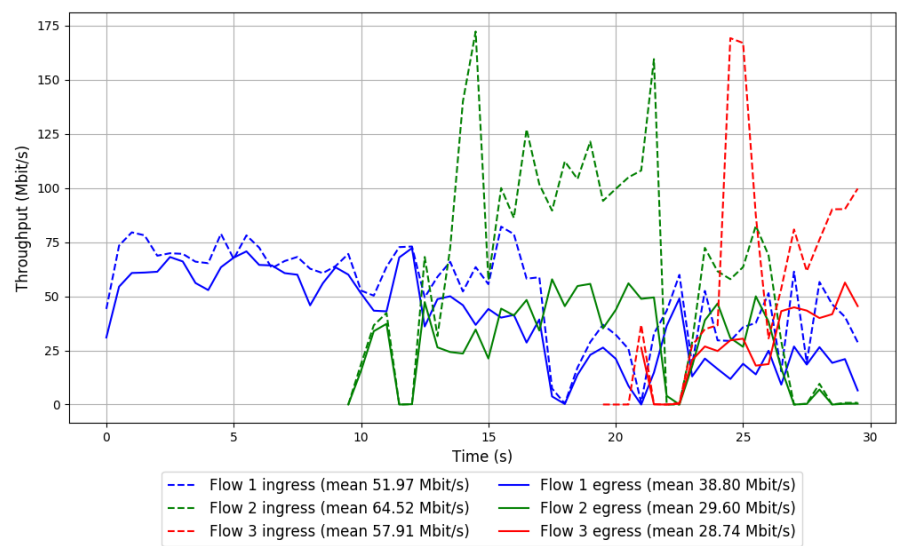
-- Flow 3:

Average throughput: 28.74 Mbit/s

95th percentile per-packet one-way delay: 44.704 ms

Loss rate: 55.35%

Run 6: Report of Verus — Data Link

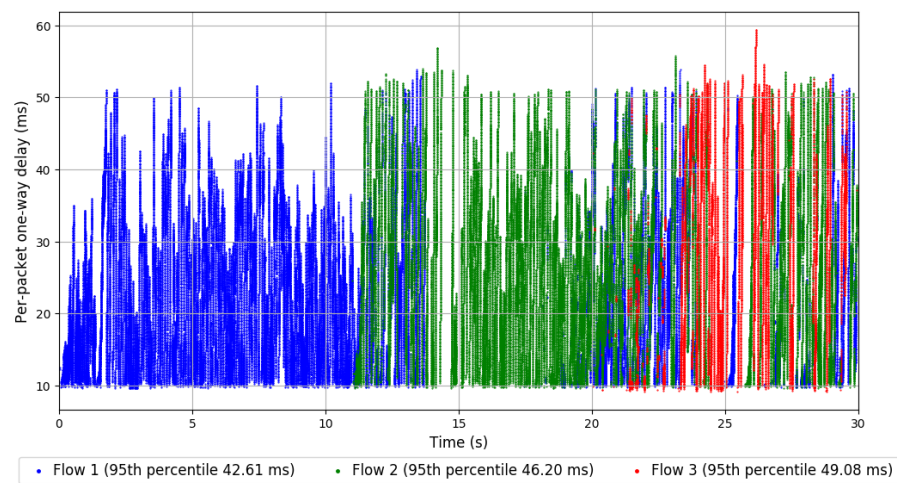
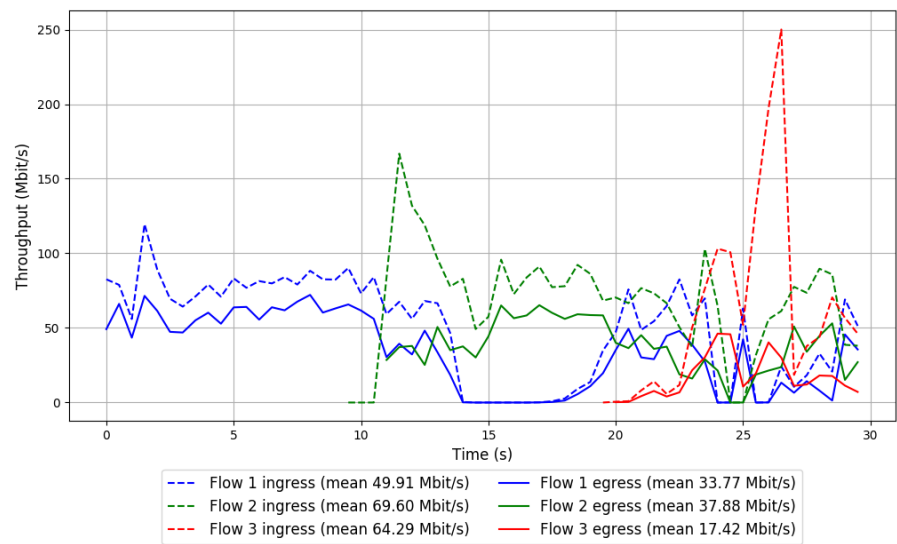


Run 7: Statistics of Verus

Start at: 2017-10-12 08:30:08
End at: 2017-10-12 08:30:38
Local clock offset: 1.196 ms
Remote clock offset: 9.345 ms

Below is generated by plot.py at 2017-10-12 10:00:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 45.204 ms
Loss rate: 45.96%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 42.613 ms
Loss rate: 32.28%
-- Flow 2:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 46.196 ms
Loss rate: 48.28%
-- Flow 3:
Average throughput: 17.42 Mbit/s
95th percentile per-packet one-way delay: 49.075 ms
Loss rate: 72.91%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-12 08:46:29

End at: 2017-10-12 08:46:59

Local clock offset: 2.292 ms

Remote clock offset: 7.128 ms

Below is generated by plot.py at 2017-10-12 10:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 60.064 ms

Loss rate: 72.48%

-- Flow 1:

Average throughput: 48.02 Mbit/s

95th percentile per-packet one-way delay: 63.427 ms

Loss rate: 75.68%

-- Flow 2:

Average throughput: 18.26 Mbit/s

95th percentile per-packet one-way delay: 42.890 ms

Loss rate: 51.75%

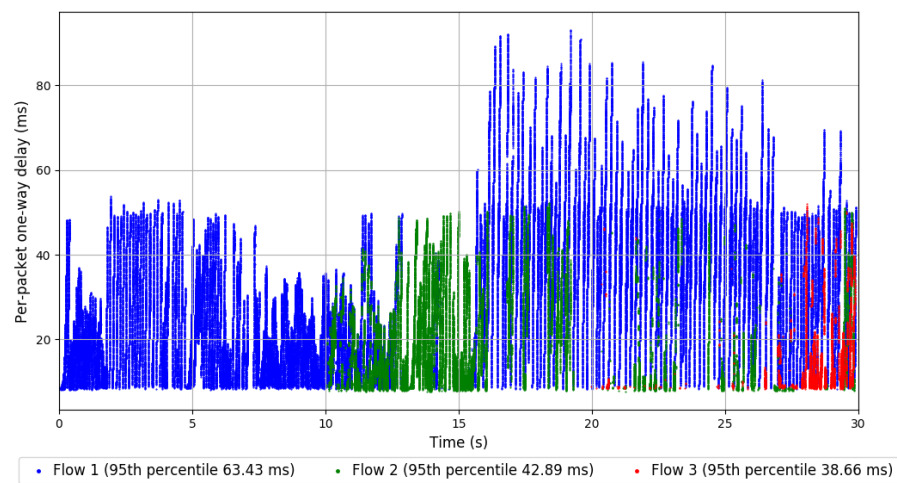
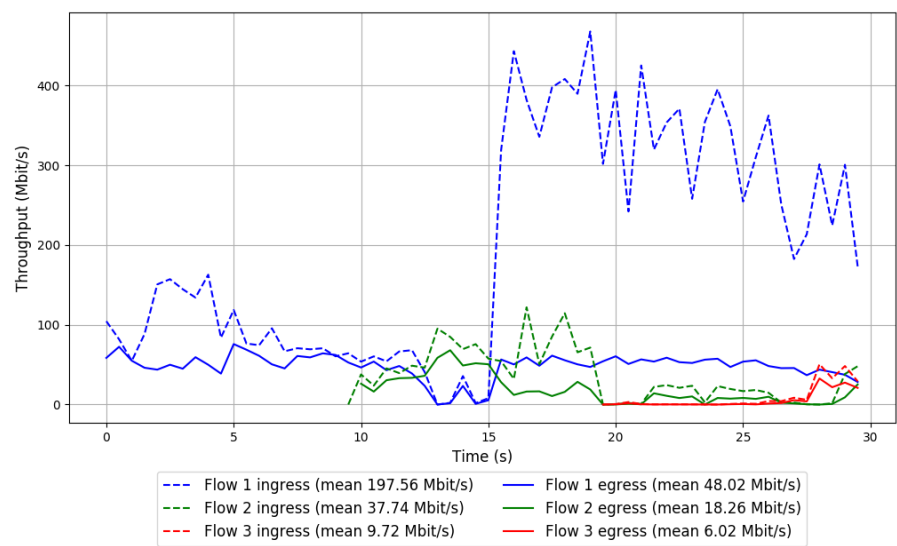
-- Flow 3:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 38.659 ms

Loss rate: 38.07%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-12 09:02:33

End at: 2017-10-12 09:03:03

Local clock offset: 2.601 ms

Remote clock offset: 6.535 ms

Below is generated by plot.py at 2017-10-12 10:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.13 Mbit/s

95th percentile per-packet one-way delay: 44.637 ms

Loss rate: 43.17%

-- Flow 1:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 42.454 ms

Loss rate: 32.89%

-- Flow 2:

Average throughput: 30.45 Mbit/s

95th percentile per-packet one-way delay: 46.766 ms

Loss rate: 55.90%

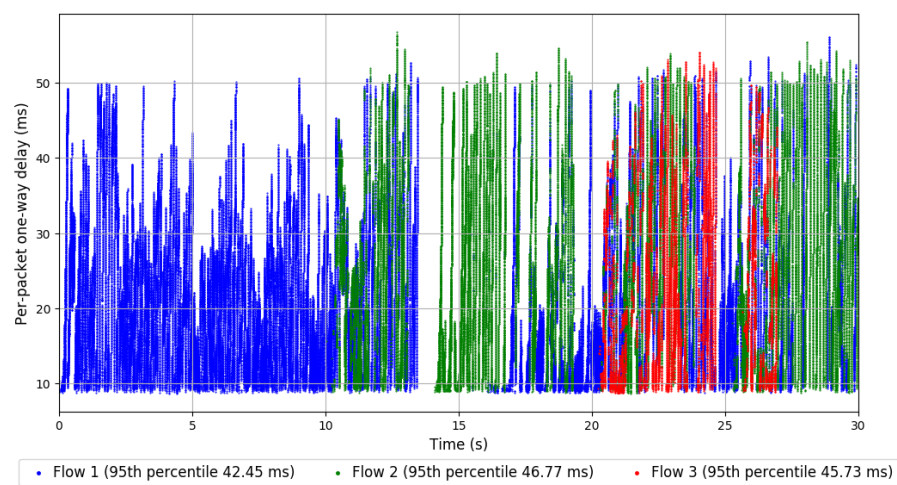
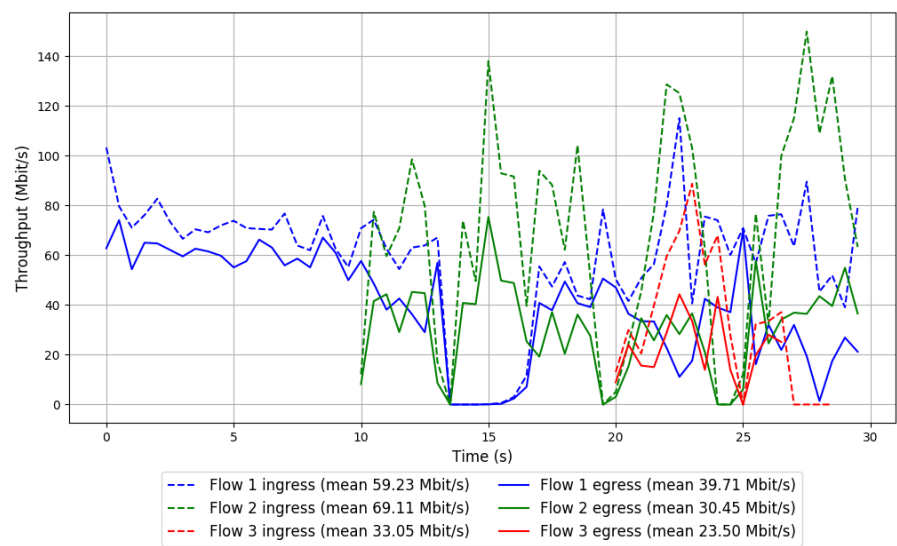
-- Flow 3:

Average throughput: 23.50 Mbit/s

95th percentile per-packet one-way delay: 45.726 ms

Loss rate: 45.44%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-12 09:18:44

End at: 2017-10-12 09:19:14

Local clock offset: 25.39 ms

Remote clock offset: 4.692 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 40.359 ms

Loss rate: 73.96%

-- Flow 1:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 22.829 ms

Loss rate: 47.74%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 50.642 ms

Loss rate: 83.55%

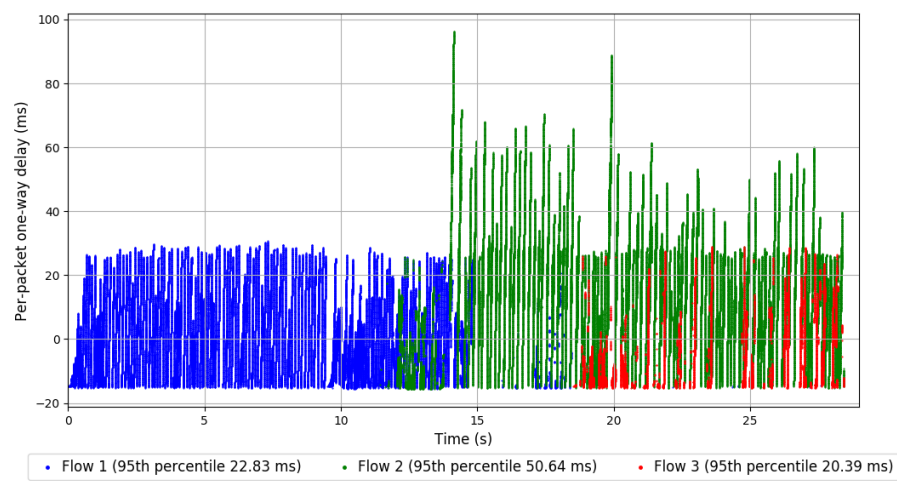
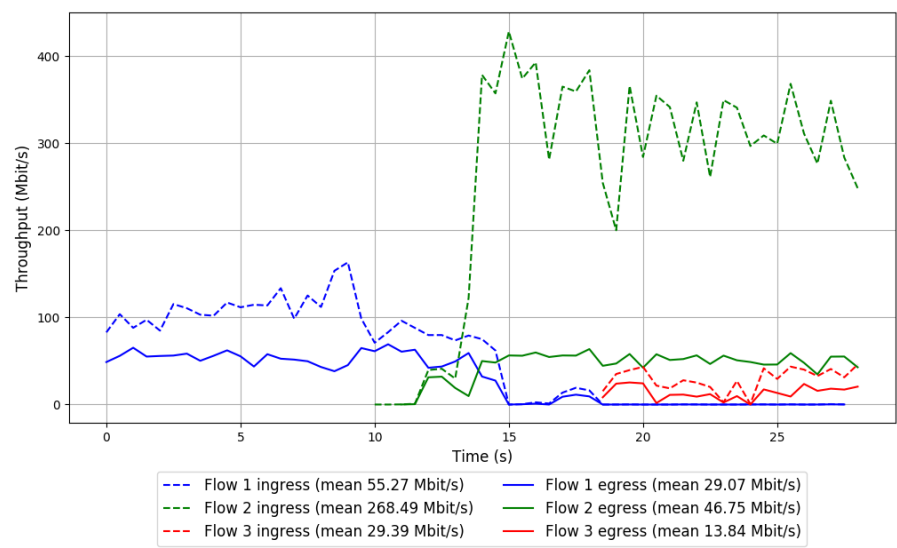
-- Flow 3:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 20.392 ms

Loss rate: 52.90%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

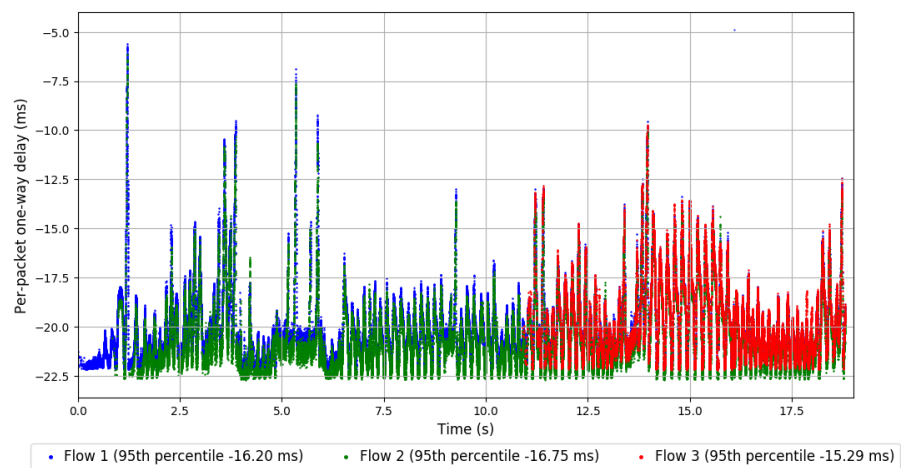
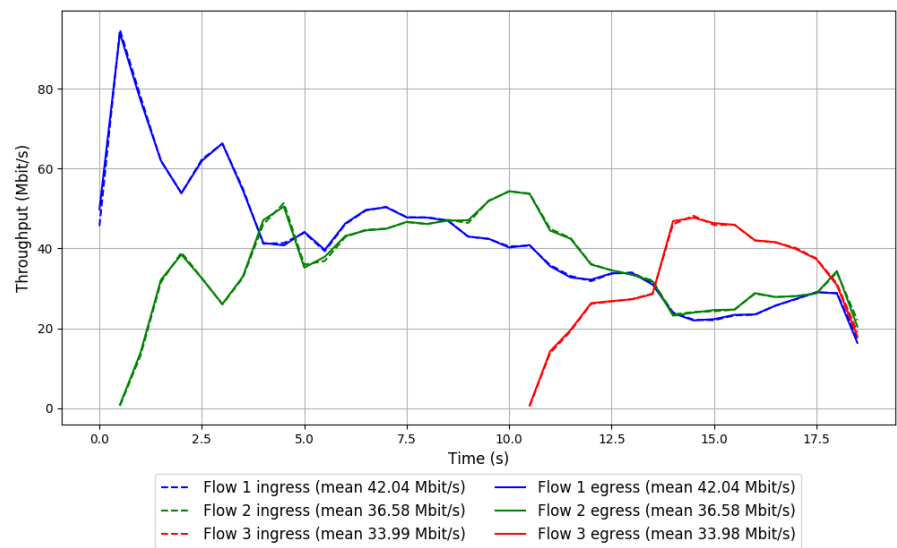
Start at: 2017-10-12 06:45:55

End at: 2017-10-12 06:46:25

Local clock offset: 0.836 ms

Remote clock offset: -14.666 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-12 07:04:32

End at: 2017-10-12 07:05:02

Local clock offset: 1.257 ms

Remote clock offset: 20.59 ms

Below is generated by plot.py at 2017-10-12 10:02:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 15.345 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 15.051 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 15.874 ms

Loss rate: 0.00%

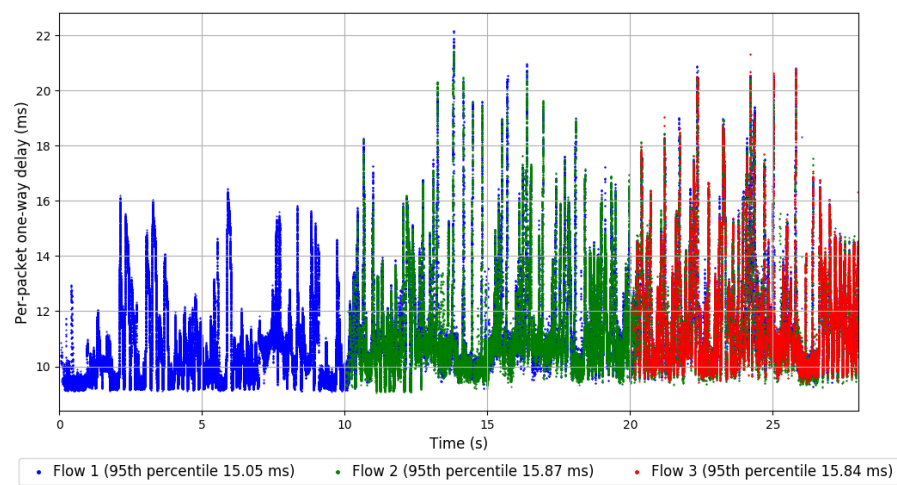
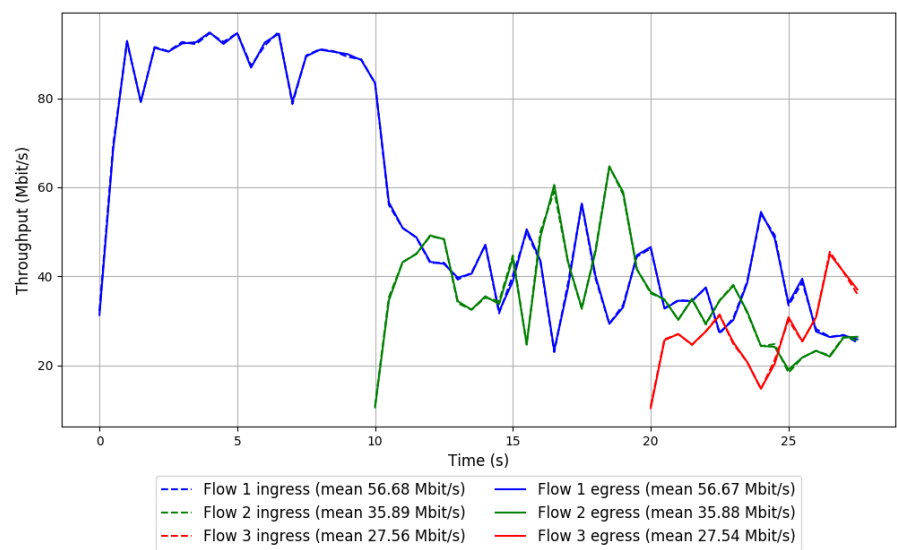
-- Flow 3:

Average throughput: 27.54 Mbit/s

95th percentile per-packet one-way delay: 15.835 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

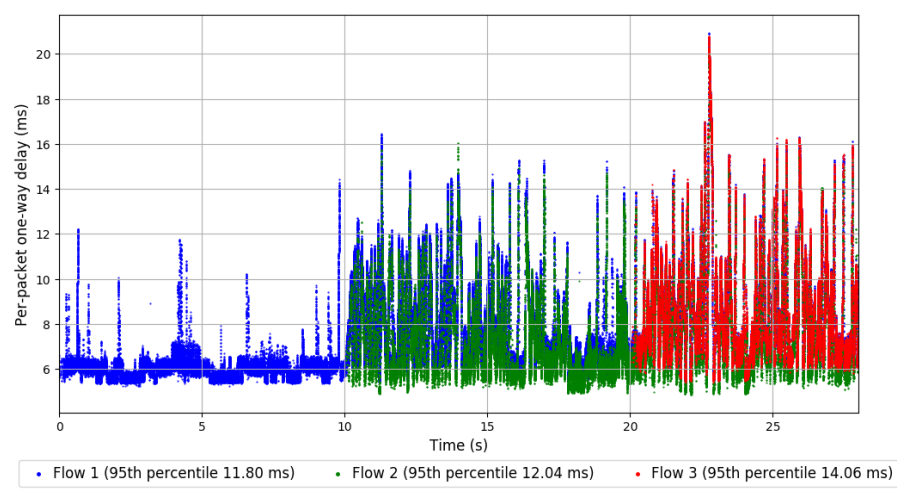
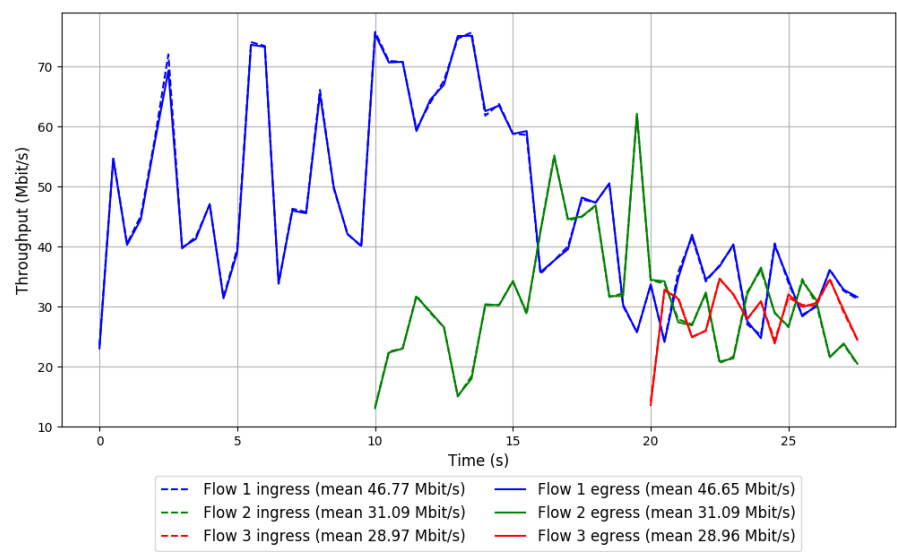


Run 3: Statistics of Copa

Start at: 2017-10-12 07:21:13
End at: 2017-10-12 07:21:43
Local clock offset: -3.139 ms
Remote clock offset: 11.201 ms

Below is generated by plot.py at 2017-10-12 10:02:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: 12.223 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 11.798 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 31.09 Mbit/s
95th percentile per-packet one-way delay: 12.035 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.96 Mbit/s
95th percentile per-packet one-way delay: 14.060 ms
Loss rate: 0.02%

Run 3: Report of Copa — Data Link

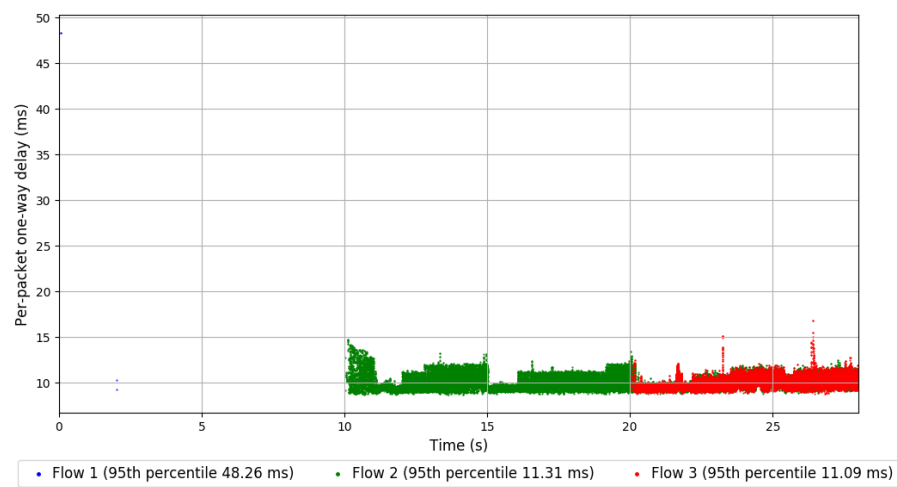
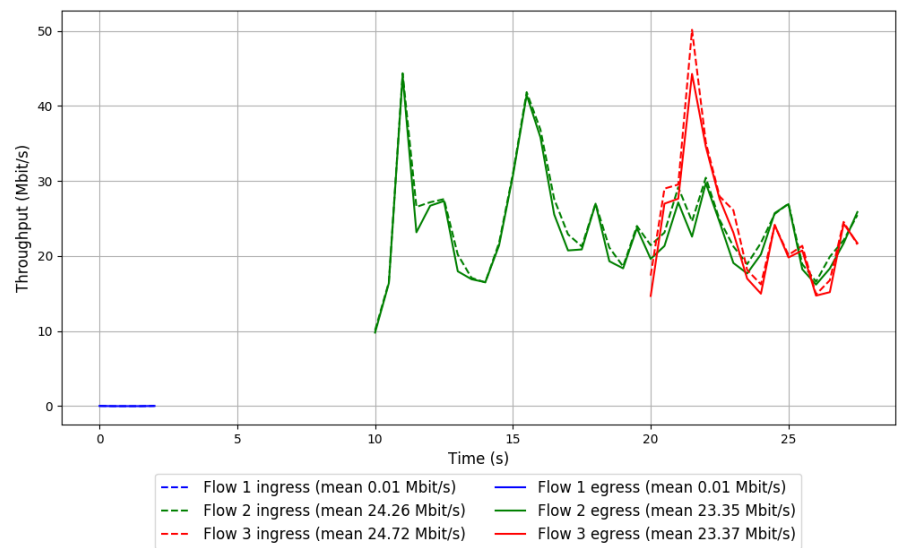


Run 4: Statistics of Copa

Start at: 2017-10-12 07:37:47
End at: 2017-10-12 07:38:17
Local clock offset: 0.568 ms
Remote clock offset: 15.819 ms

```
# Below is generated by plot.py at 2017-10-12 10:02:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 11.226 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 48.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 11.306 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 23.37 Mbit/s
95th percentile per-packet one-way delay: 11.092 ms
Loss rate: 5.45%
```

Run 4: Report of Copa — Data Link

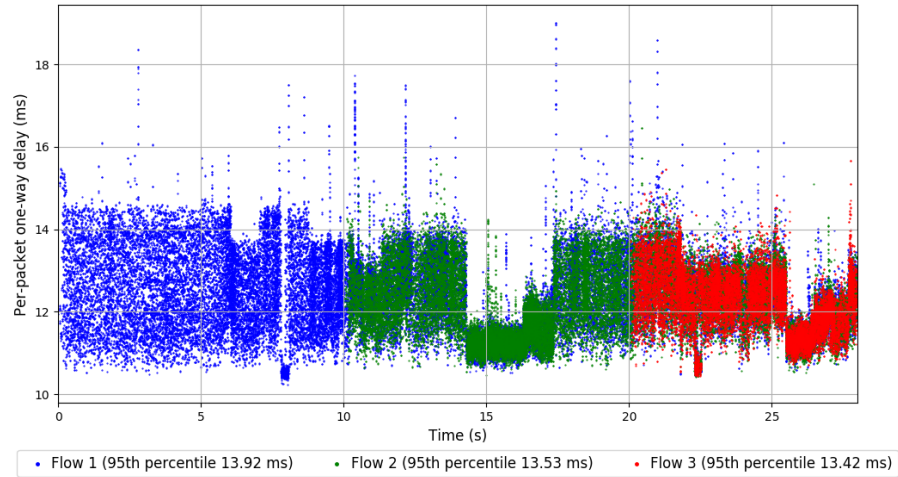
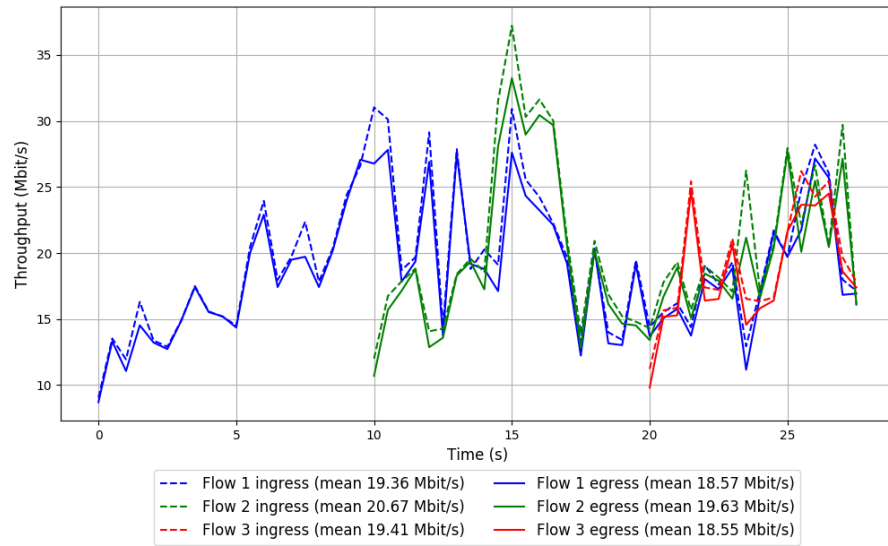


Run 5: Statistics of Copa

Start at: 2017-10-12 07:56:25
End at: 2017-10-12 07:56:55
Local clock offset: 0.158 ms
Remote clock offset: 13.365 ms

Below is generated by plot.py at 2017-10-12 10:02:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 13.717 ms
Loss rate: 4.46%
-- Flow 1:
Average throughput: 18.57 Mbit/s
95th percentile per-packet one-way delay: 13.919 ms
Loss rate: 4.08%
-- Flow 2:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 13.534 ms
Loss rate: 5.01%
-- Flow 3:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 13.421 ms
Loss rate: 4.45%

Run 5: Report of Copa — Data Link

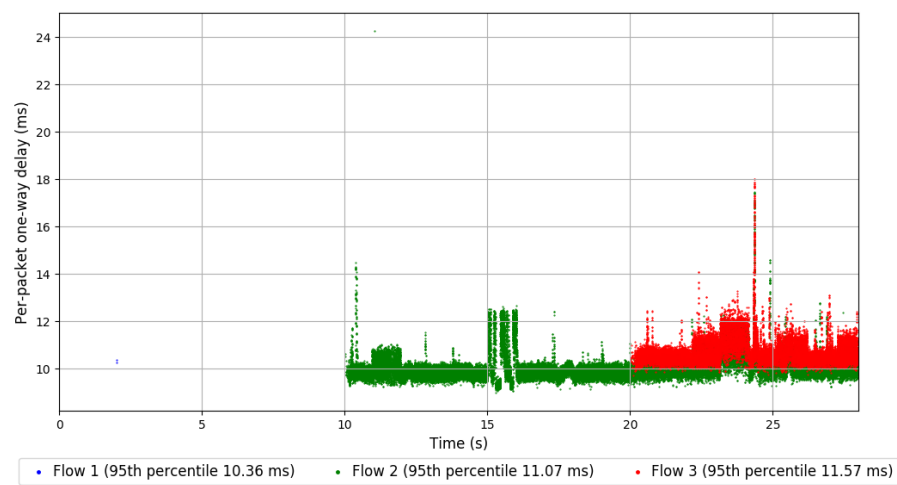
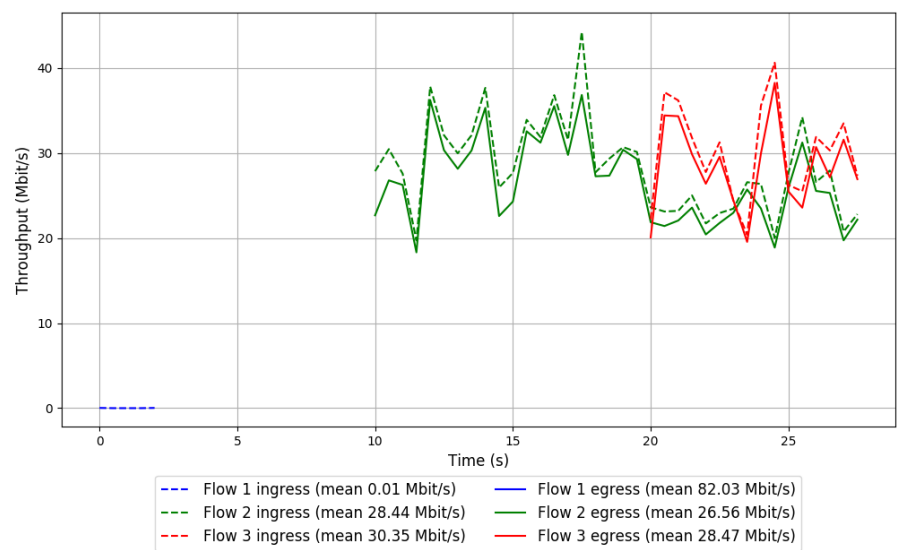


Run 6: Statistics of Copa

Start at: 2017-10-12 08:15:07
End at: 2017-10-12 08:15:37
Local clock offset: 0.524 ms
Remote clock offset: 10.443 ms

Below is generated by plot.py at 2017-10-12 10:02:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.08 Mbit/s
95th percentile per-packet one-way delay: 11.329 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 10.363 ms
Loss rate: 50.00%
-- Flow 2:
Average throughput: 26.56 Mbit/s
95th percentile per-packet one-way delay: 11.071 ms
Loss rate: 6.63%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 11.575 ms
Loss rate: 6.20%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-12 08:31:21

End at: 2017-10-12 08:31:51

Local clock offset: 3.315 ms

Remote clock offset: 8.497 ms

Below is generated by plot.py at 2017-10-12 10:02:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 8.315 ms

Loss rate: 7.85%

-- Flow 1:

Average throughput: 25.31 Mbit/s

95th percentile per-packet one-way delay: 8.288 ms

Loss rate: 7.41%

-- Flow 2:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 8.010 ms

Loss rate: 8.33%

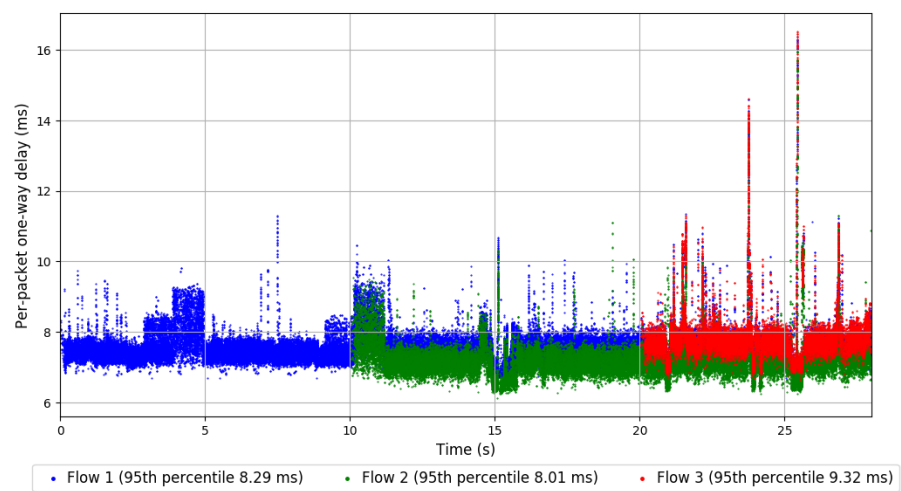
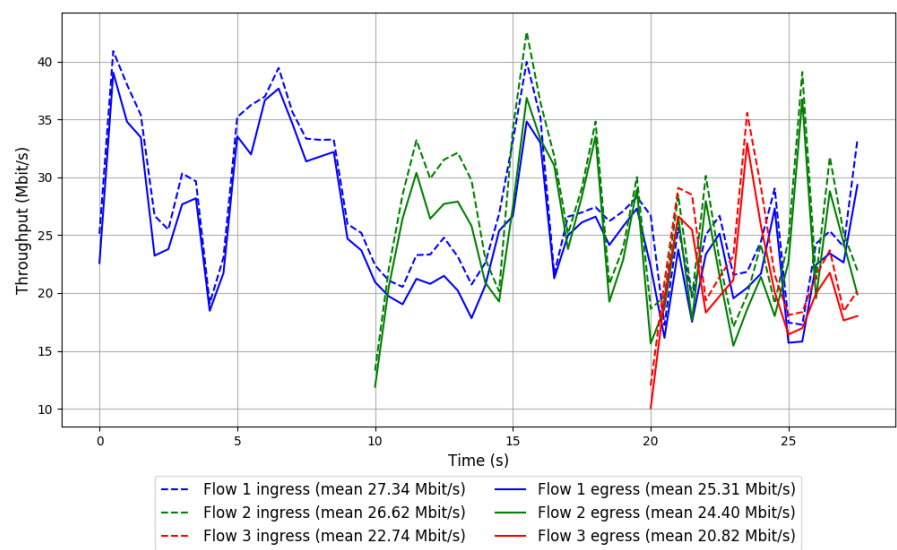
-- Flow 3:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 9.319 ms

Loss rate: 8.47%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-12 08:47:42

End at: 2017-10-12 08:48:12

Local clock offset: 1.604 ms

Remote clock offset: 7.478 ms

Below is generated by plot.py at 2017-10-12 10:02:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.47 Mbit/s

95th percentile per-packet one-way delay: 10.465 ms

Loss rate: 5.93%

-- Flow 1:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 9.928 ms

Loss rate: 50.00%

-- Flow 2:

Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 10.492 ms

Loss rate: 6.09%

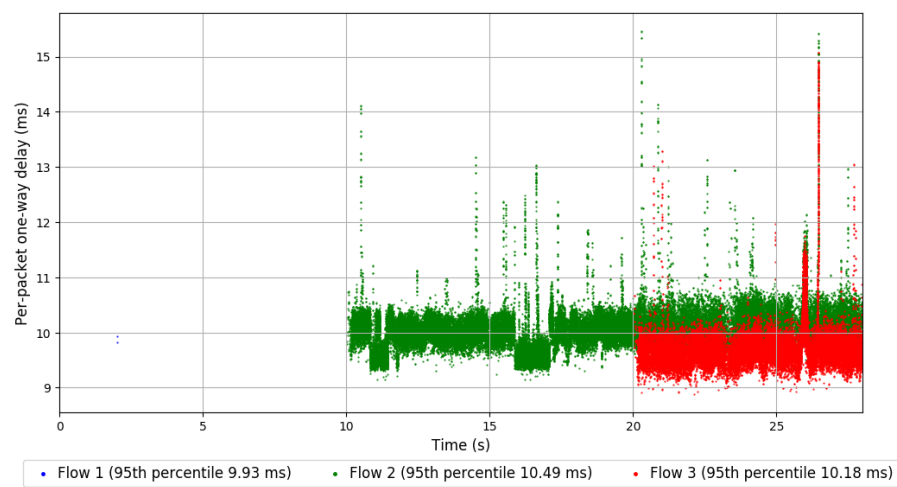
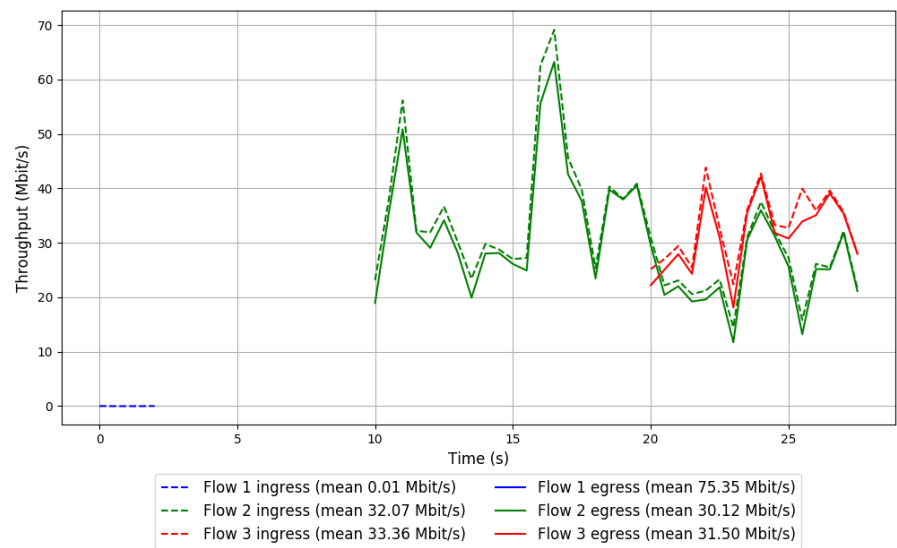
-- Flow 3:

Average throughput: 31.50 Mbit/s

95th percentile per-packet one-way delay: 10.180 ms

Loss rate: 5.59%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-12 09:03:46

End at: 2017-10-12 09:04:16

Local clock offset: 3.728 ms

Remote clock offset: 5.691 ms

Below is generated by plot.py at 2017-10-12 10:03:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.65 Mbit/s

95th percentile per-packet one-way delay: 8.585 ms

Loss rate: 5.72%

-- Flow 1:

Average throughput: 25.71 Mbit/s

95th percentile per-packet one-way delay: 8.515 ms

Loss rate: 4.84%

-- Flow 2:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 8.618 ms

Loss rate: 6.57%

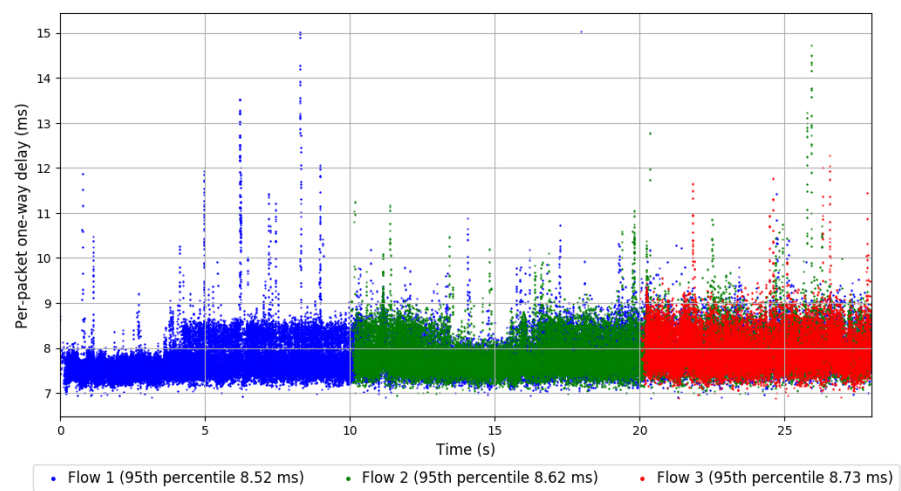
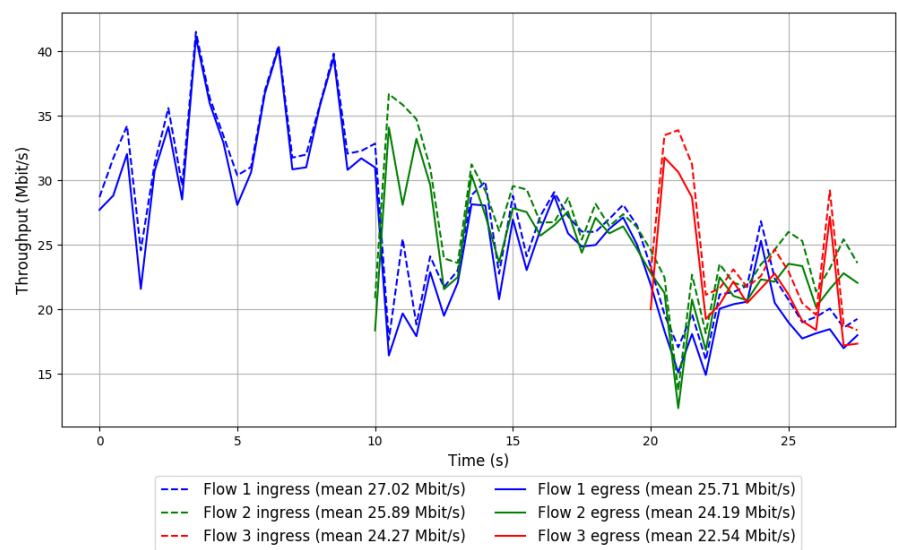
-- Flow 3:

Average throughput: 22.54 Mbit/s

95th percentile per-packet one-way delay: 8.735 ms

Loss rate: 7.14%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-10-12 09:19:57

End at: 2017-10-12 09:20:27

Local clock offset: 3.234 ms

Remote clock offset: 4.44 ms

Below is generated by plot.py at 2017-10-12 10:03:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 8.382 ms

Loss rate: 8.28%

-- Flow 1:

Average throughput: 27.53 Mbit/s

95th percentile per-packet one-way delay: 8.412 ms

Loss rate: 7.96%

-- Flow 2:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 8.199 ms

Loss rate: 8.45%

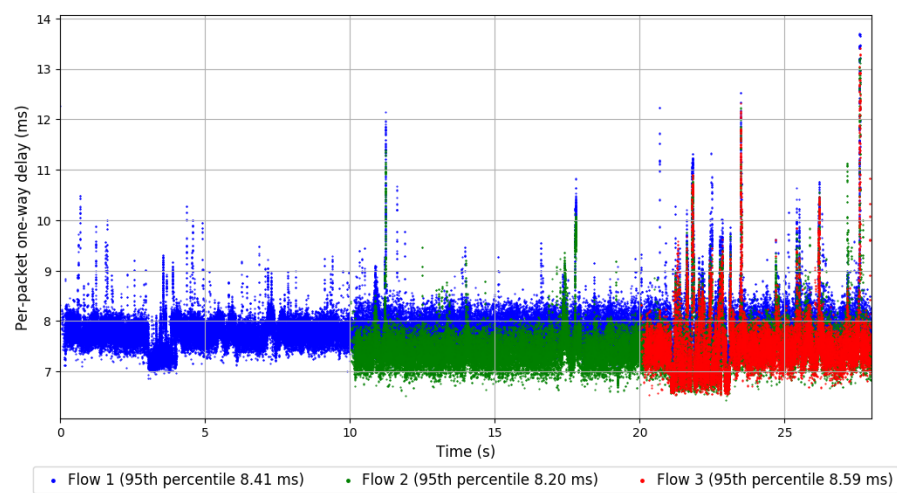
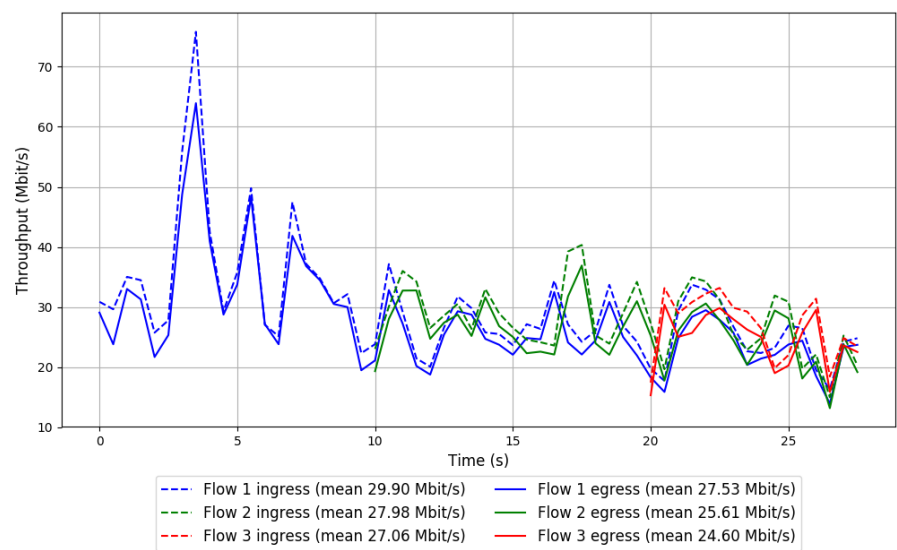
-- Flow 3:

Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 8.587 ms

Loss rate: 9.13%

Run 10: Report of Copa — Data Link

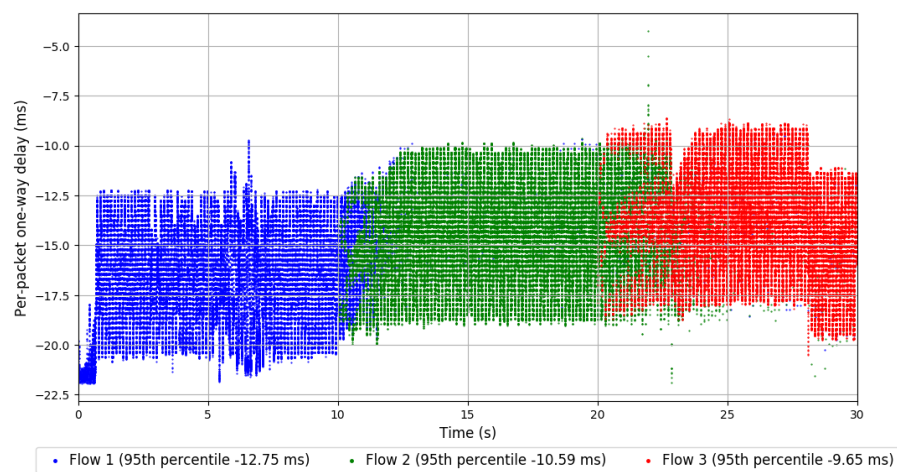
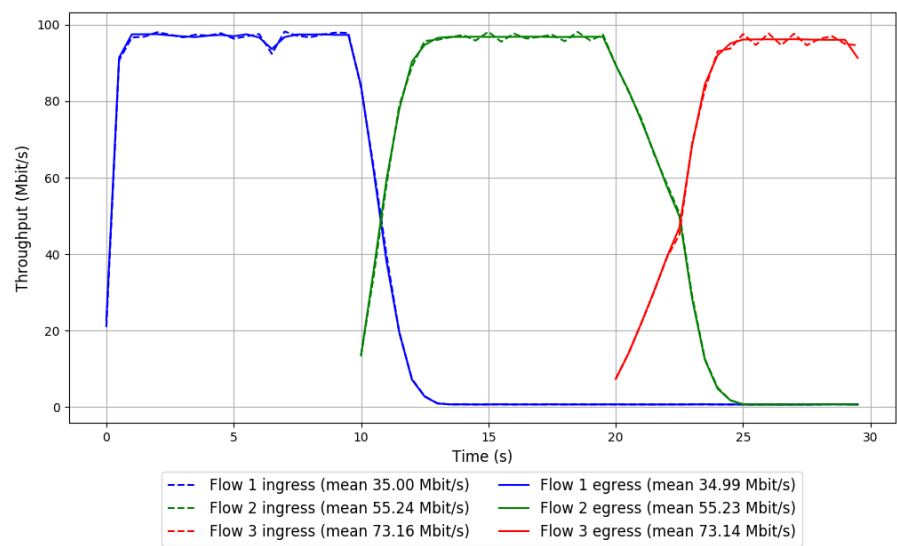


Run 1: Statistics of CalibratedKoho

Start at: 2017-10-12 06:42:19
End at: 2017-10-12 06:42:49
Local clock offset: 1.263 ms
Remote clock offset: -14.643 ms

Below is generated by plot.py at 2017-10-12 10:03:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: -10.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: -12.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: -10.586 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 73.14 Mbit/s
95th percentile per-packet one-way delay: -9.649 ms
Loss rate: 0.00%

Run 1: Report of CalibratedKoho — Data Link

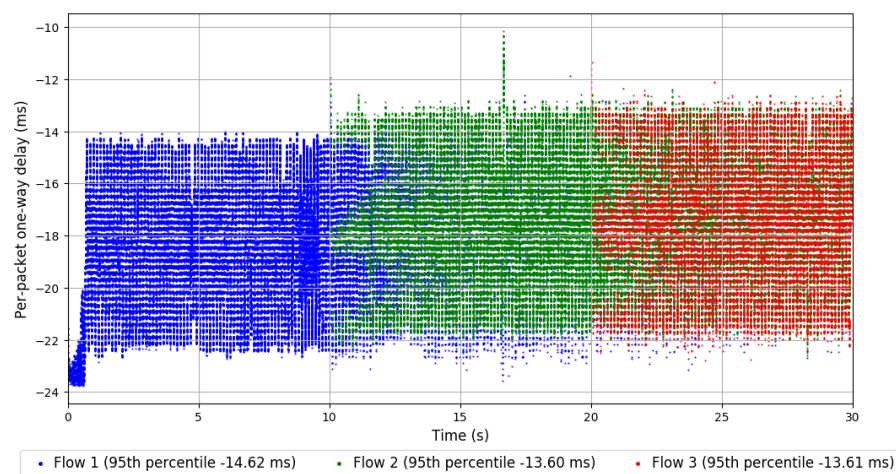
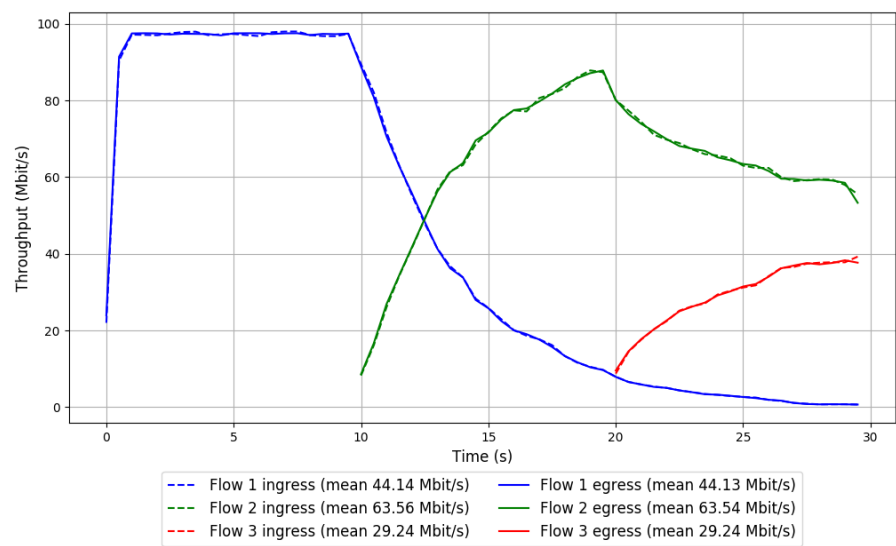


Run 2: Statistics of CalibratedKoho

Start at: 2017-10-12 07:00:30
End at: 2017-10-12 07:01:00
Local clock offset: 1.151 ms
Remote clock offset: -12.671 ms

Below is generated by plot.py at 2017-10-12 10:03:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: -13.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.13 Mbit/s
95th percentile per-packet one-way delay: -14.619 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.54 Mbit/s
95th percentile per-packet one-way delay: -13.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: -13.606 ms
Loss rate: 0.00%

Run 2: Report of CalibratedKoho — Data Link

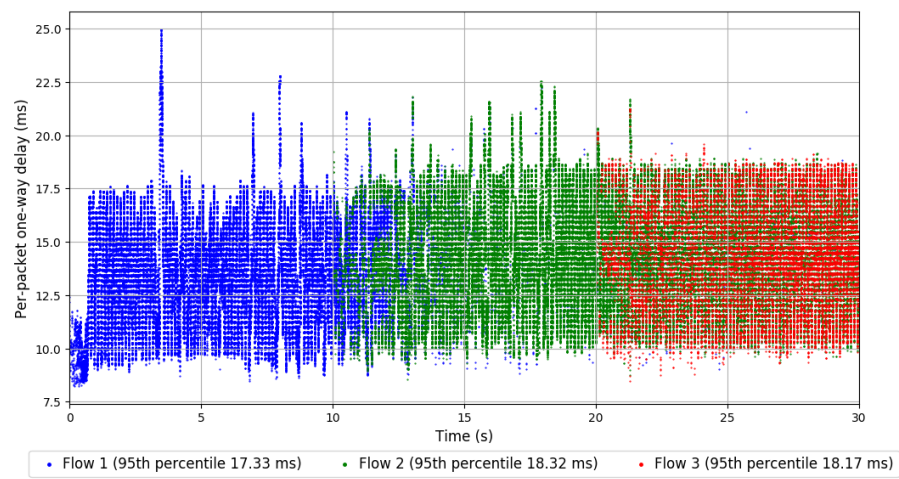
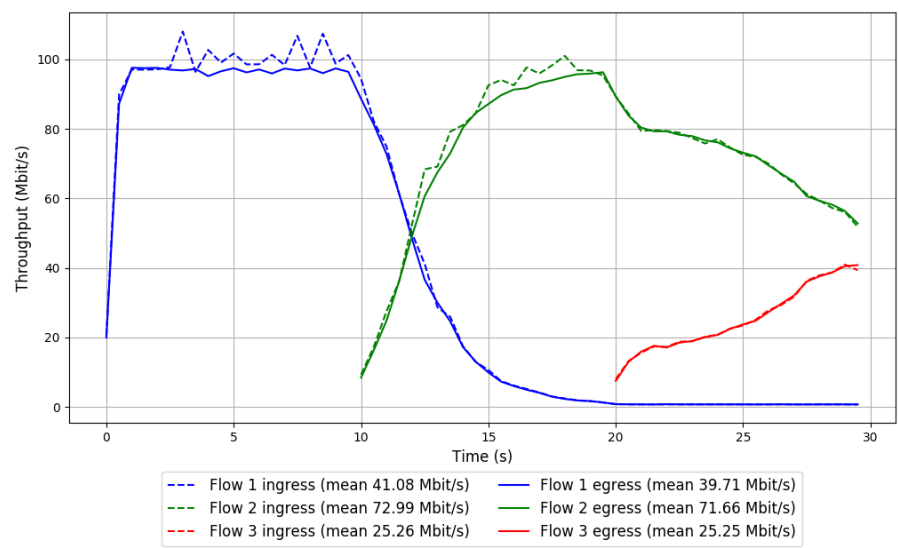


Run 3: Statistics of CalibratedKoho

Start at: 2017-10-12 07:17:31
End at: 2017-10-12 07:18:01
Local clock offset: 1.235 ms
Remote clock offset: 19.114 ms

Below is generated by plot.py at 2017-10-12 10:03:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 18.129 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 39.71 Mbit/s
95th percentile per-packet one-way delay: 17.333 ms
Loss rate: 3.31%
-- Flow 2:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 18.325 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 25.25 Mbit/s
95th percentile per-packet one-way delay: 18.169 ms
Loss rate: 0.00%

Run 3: Report of CalibratedKoho — Data Link

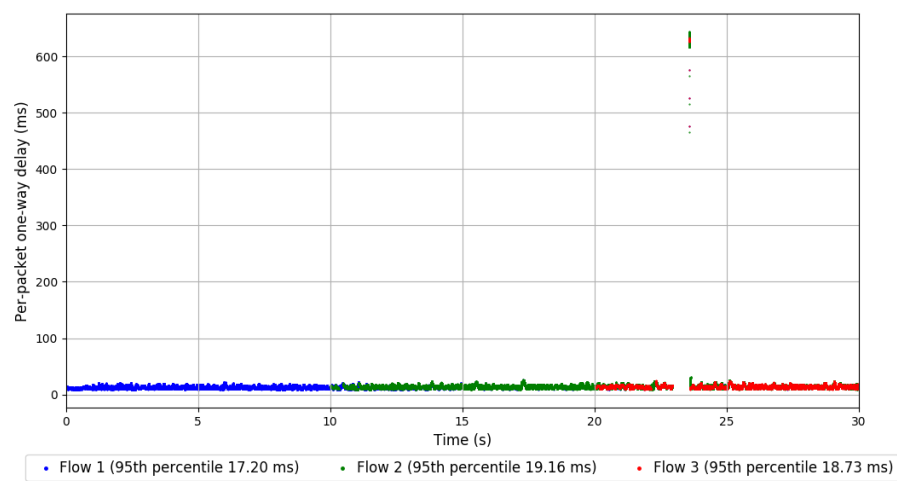
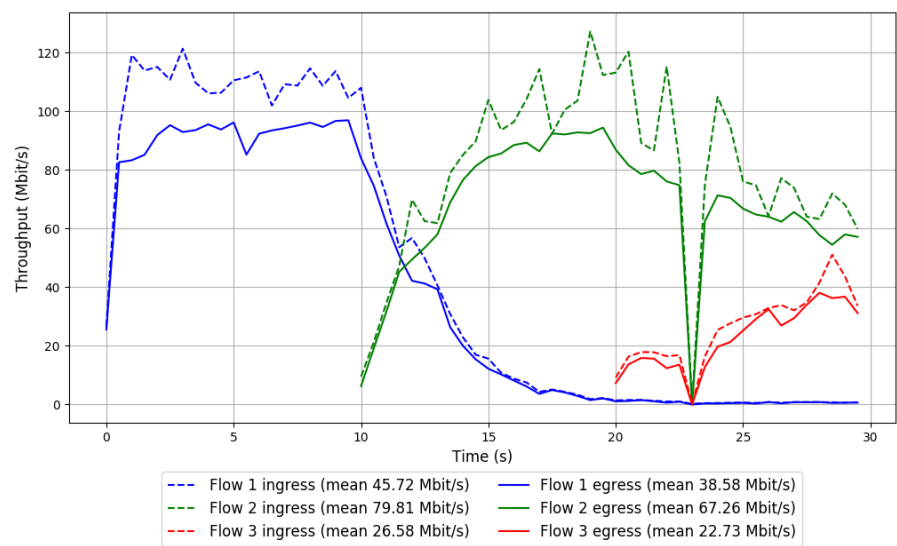


Run 4: Statistics of CalibratedKoho

Start at: 2017-10-12 07:34:06
End at: 2017-10-12 07:34:36
Local clock offset: 1.036 ms
Remote clock offset: 16.514 ms

Below is generated by plot.py at 2017-10-12 10:03:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 18.241 ms
Loss rate: 15.60%
-- Flow 1:
Average throughput: 38.58 Mbit/s
95th percentile per-packet one-way delay: 17.196 ms
Loss rate: 15.68%
-- Flow 2:
Average throughput: 67.26 Mbit/s
95th percentile per-packet one-way delay: 19.158 ms
Loss rate: 15.71%
-- Flow 3:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 18.729 ms
Loss rate: 14.51%

Run 4: Report of CalibratedKoho — Data Link

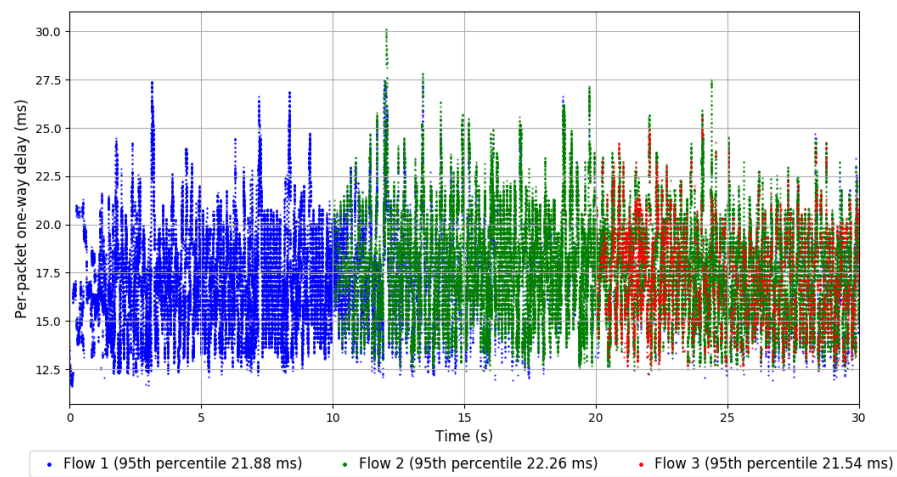
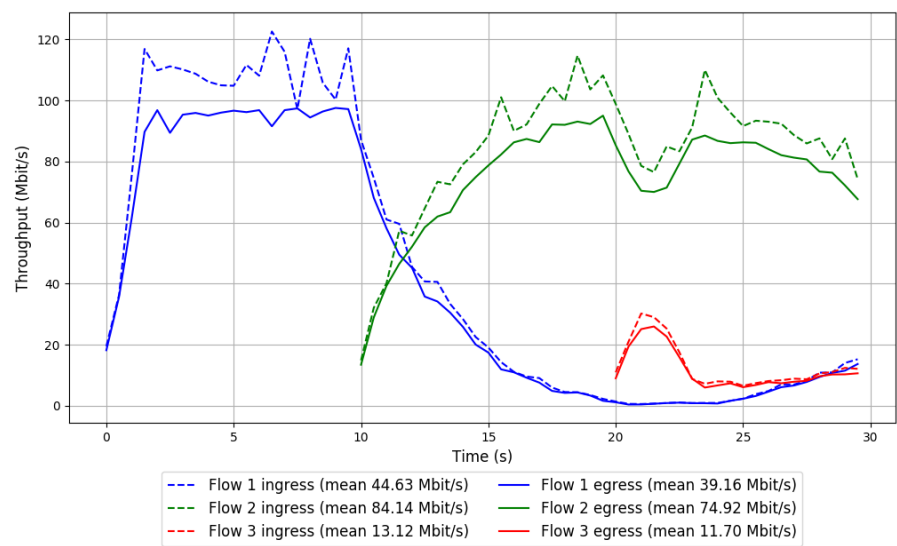


Run 5: Statistics of CalibratedKoho

Start at: 2017-10-12 07:52:36
End at: 2017-10-12 07:53:06
Local clock offset: 0.672 ms
Remote clock offset: 16.237 ms

Below is generated by plot.py at 2017-10-12 10:03:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 22.047 ms
Loss rate: 11.51%
-- Flow 1:
Average throughput: 39.16 Mbit/s
95th percentile per-packet one-way delay: 21.884 ms
Loss rate: 12.25%
-- Flow 2:
Average throughput: 74.92 Mbit/s
95th percentile per-packet one-way delay: 22.259 ms
Loss rate: 10.97%
-- Flow 3:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 21.542 ms
Loss rate: 10.80%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-12 08:11:23

End at: 2017-10-12 08:11:53

Local clock offset: 0.933 ms

Remote clock offset: 9.959 ms

Below is generated by plot.py at 2017-10-12 10:04:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 18.423 ms

Loss rate: 17.02%

-- Flow 1:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 18.691 ms

Loss rate: 18.21%

-- Flow 2:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 18.198 ms

Loss rate: 16.17%

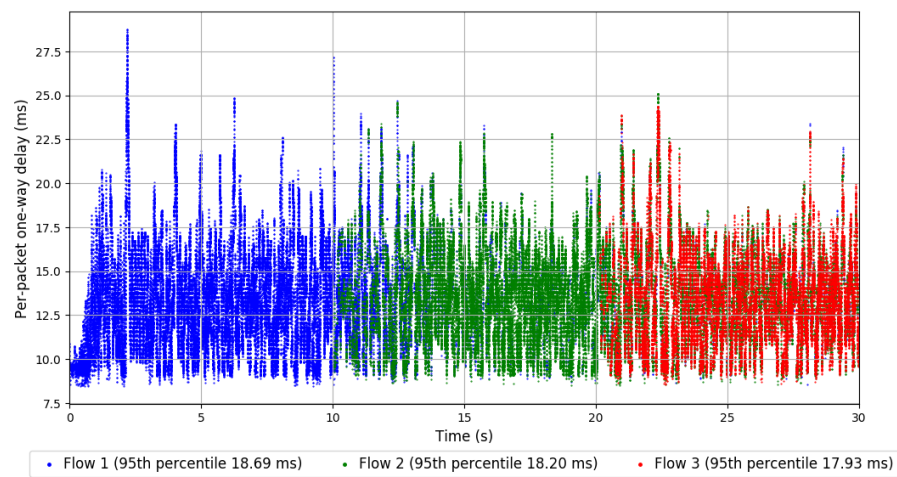
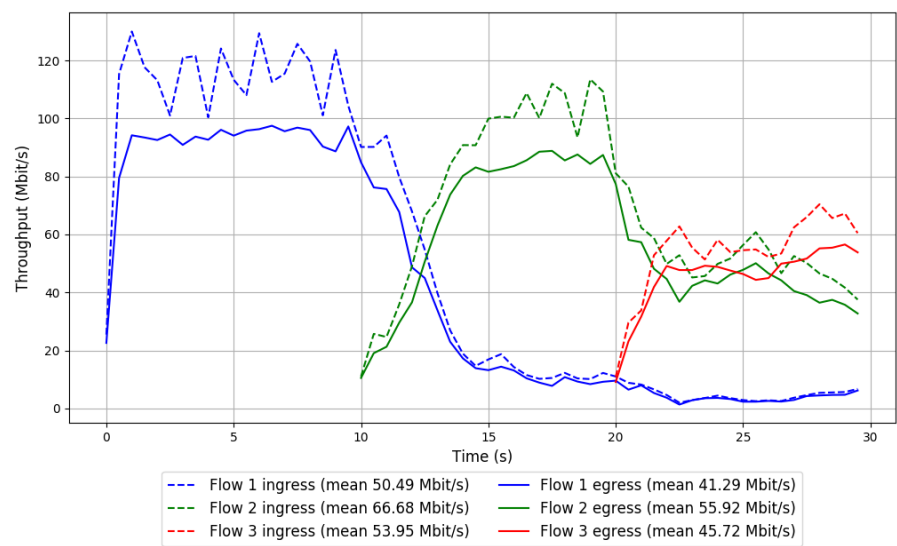
-- Flow 3:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 17.931 ms

Loss rate: 15.74%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-12 08:27:37

End at: 2017-10-12 08:28:07

Local clock offset: 3.029 ms

Remote clock offset: 8.928 ms

Below is generated by plot.py at 2017-10-12 10:04:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 16.644 ms

Loss rate: 12.27%

-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 15.983 ms

Loss rate: 13.67%

-- Flow 2:

Average throughput: 70.69 Mbit/s

95th percentile per-packet one-way delay: 16.900 ms

Loss rate: 11.07%

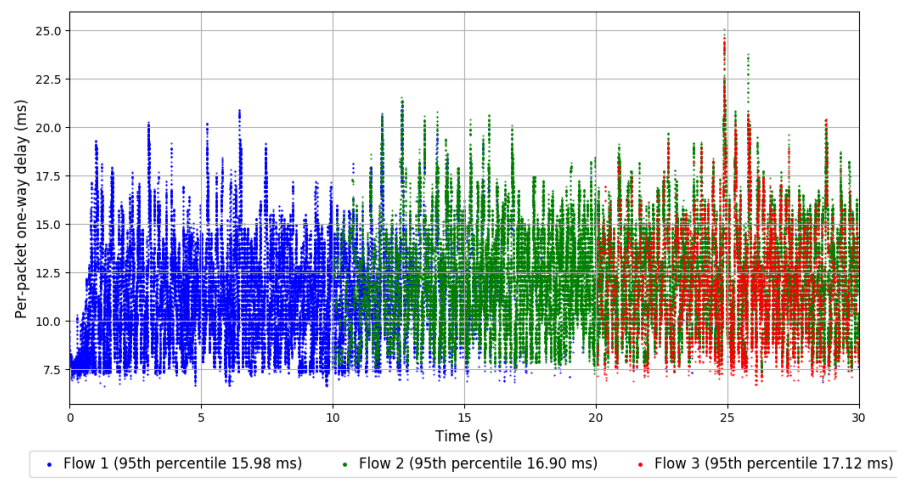
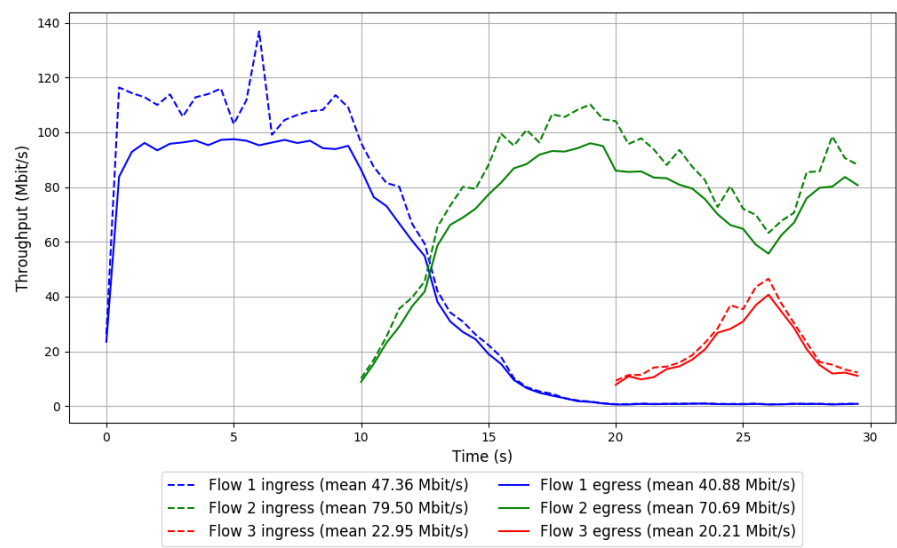
-- Flow 3:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 17.122 ms

Loss rate: 11.93%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-12 08:43:57

End at: 2017-10-12 08:44:27

Local clock offset: 1.225 ms

Remote clock offset: 7.821 ms

Below is generated by plot.py at 2017-10-12 10:04:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 19.246 ms

Loss rate: 14.54%

-- Flow 1:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 18.662 ms

Loss rate: 15.58%

-- Flow 2:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 19.713 ms

Loss rate: 13.68%

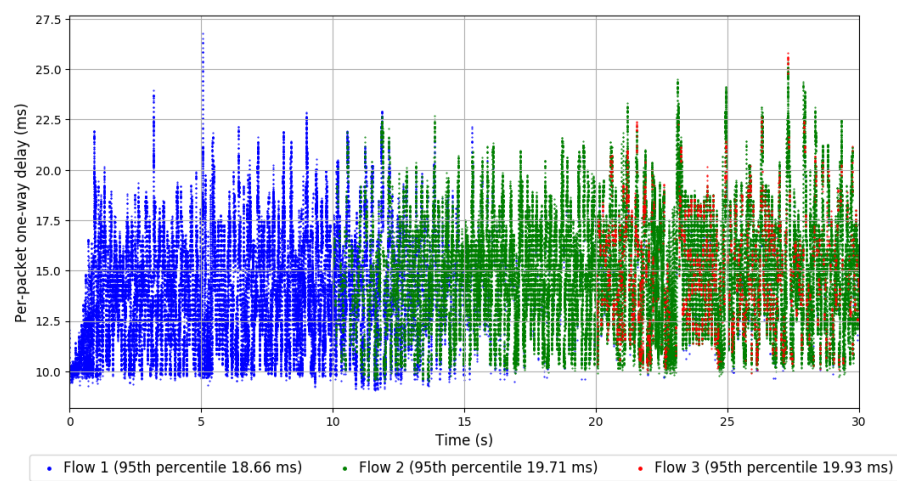
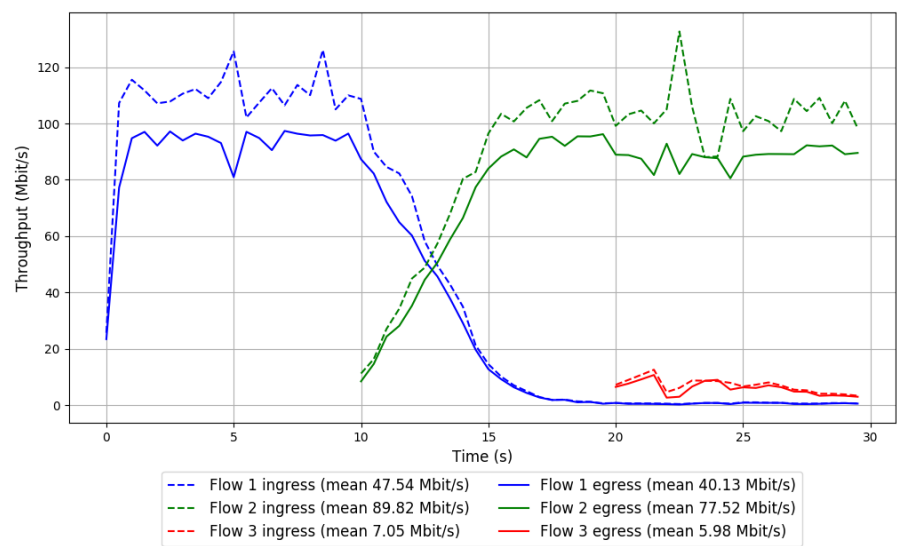
-- Flow 3:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 19.927 ms

Loss rate: 15.13%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-12 09:00:08

End at: 2017-10-12 09:00:38

Local clock offset: 1.304 ms

Remote clock offset: 5.657 ms

Below is generated by plot.py at 2017-10-12 10:04:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 18.394 ms

Loss rate: 13.91%

-- Flow 1:

Average throughput: 80.46 Mbit/s

95th percentile per-packet one-way delay: 18.390 ms

Loss rate: 13.91%

-- Flow 2:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 18.789 ms

Loss rate: 12.35%

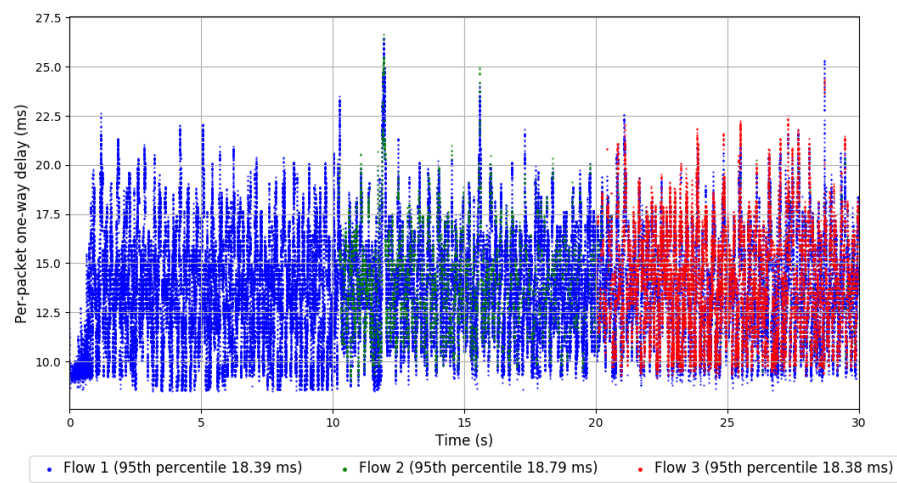
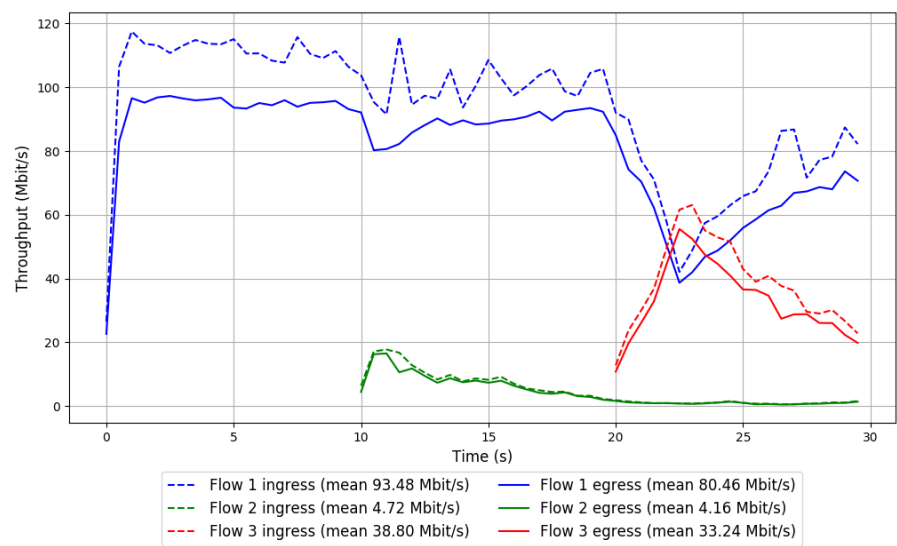
-- Flow 3:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 18.383 ms

Loss rate: 14.29%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-12 09:16:13

End at: 2017-10-12 09:16:43

Local clock offset: 24.491 ms

Remote clock offset: 4.633 ms

Below is generated by plot.py at 2017-10-12 10:05:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.45 Mbit/s

95th percentile per-packet one-way delay: -5.566 ms

Loss rate: 13.47%

-- Flow 1:

Average throughput: 36.71 Mbit/s

95th percentile per-packet one-way delay: -6.140 ms

Loss rate: 15.76%

-- Flow 2:

Average throughput: 48.21 Mbit/s

95th percentile per-packet one-way delay: -5.425 ms

Loss rate: 12.44%

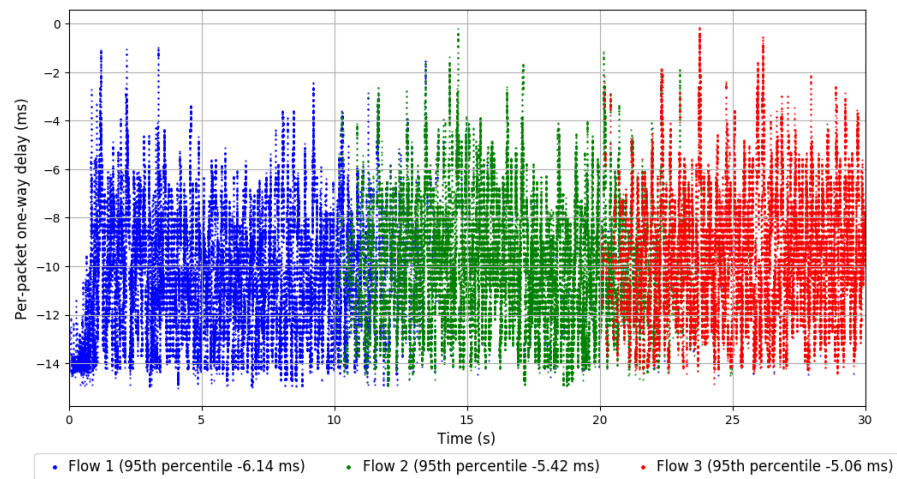
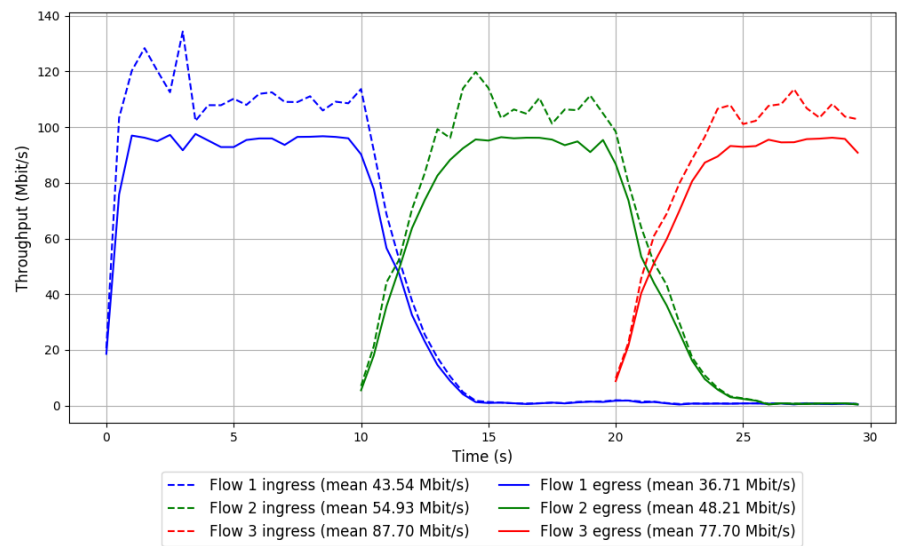
-- Flow 3:

Average throughput: 77.70 Mbit/s

95th percentile per-packet one-way delay: -5.064 ms

Loss rate: 11.36%

Run 10: Report of CalibratedKoho — Data Link

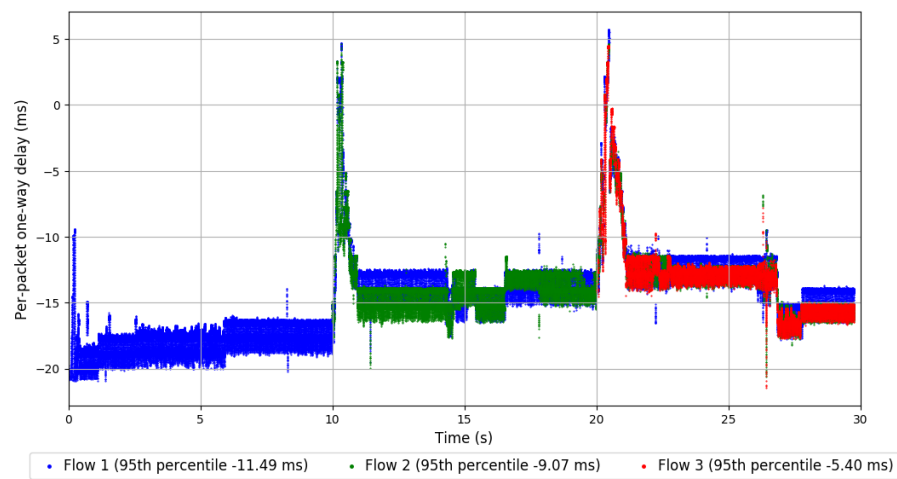
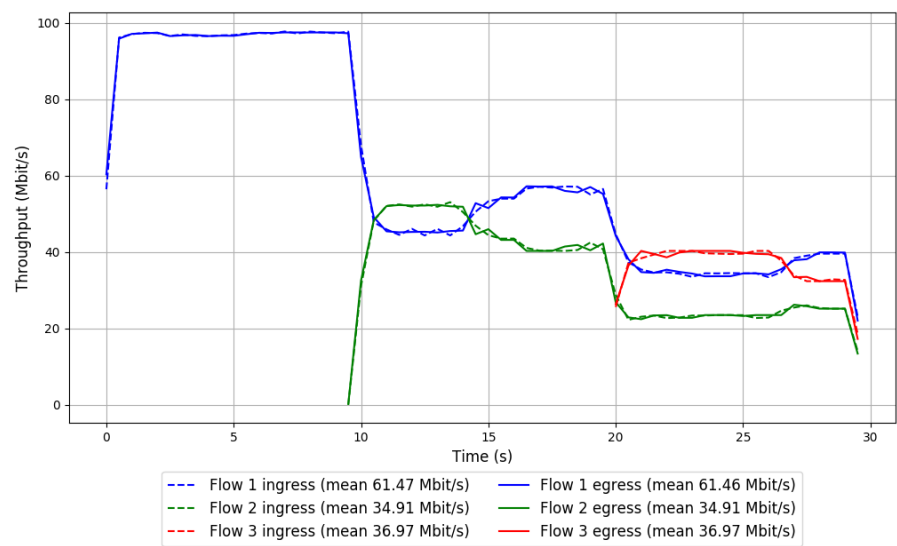


```
Run 1: Statistics of Indigo

Start at: 2017-10-12 06:47:28
End at: 2017-10-12 06:47:58
Local clock offset: 1.893 ms
Remote clock offset: -12.165 ms

# Below is generated by plot.py at 2017-10-12 10:05:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: -10.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.46 Mbit/s
95th percentile per-packet one-way delay: -11.490 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: -9.073 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: -5.400 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

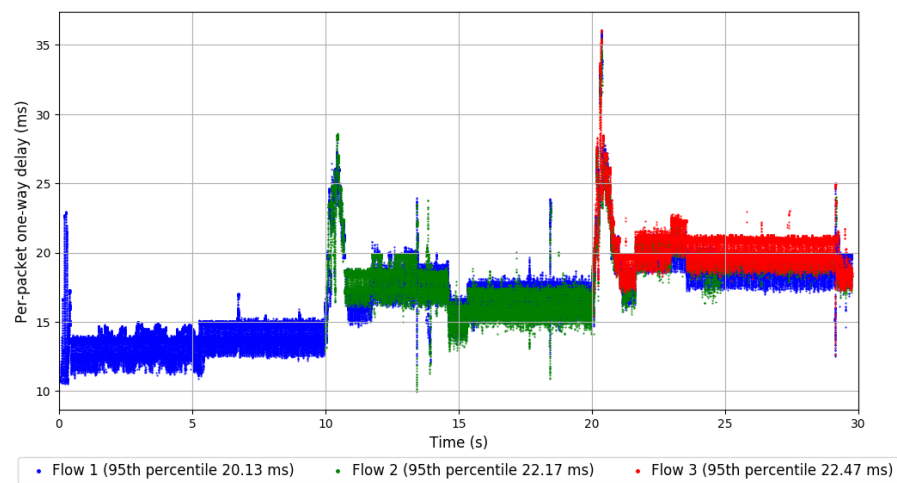
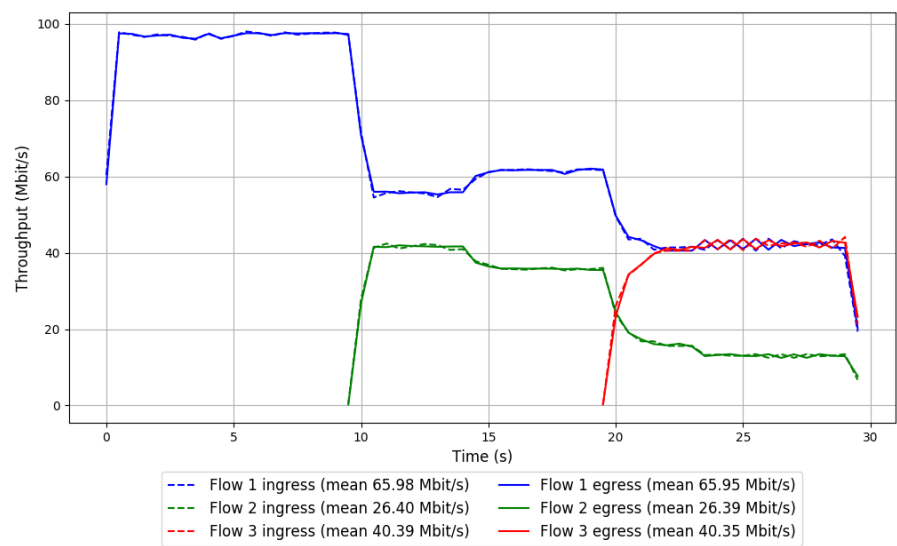


Run 2: Statistics of Indigo

Start at: 2017-10-12 07:05:47
End at: 2017-10-12 07:06:17
Local clock offset: -1.119 ms
Remote clock offset: 19.833 ms

Below is generated by plot.py at 2017-10-12 10:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 21.171 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 20.130 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 26.39 Mbit/s
95th percentile per-packet one-way delay: 22.171 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 22.469 ms
Loss rate: 0.06%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-10-12 07:22:26

End at: 2017-10-12 07:22:56

Local clock offset: 2.982 ms

Remote clock offset: 17.81 ms

Below is generated by plot.py at 2017-10-12 10:05:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 18.803 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.15 Mbit/s

95th percentile per-packet one-way delay: 17.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.49 Mbit/s

95th percentile per-packet one-way delay: 19.355 ms

Loss rate: 0.00%

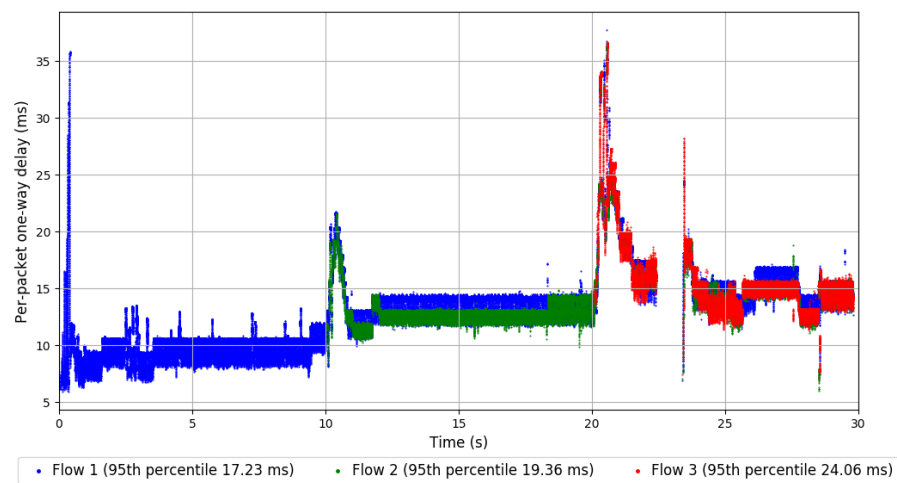
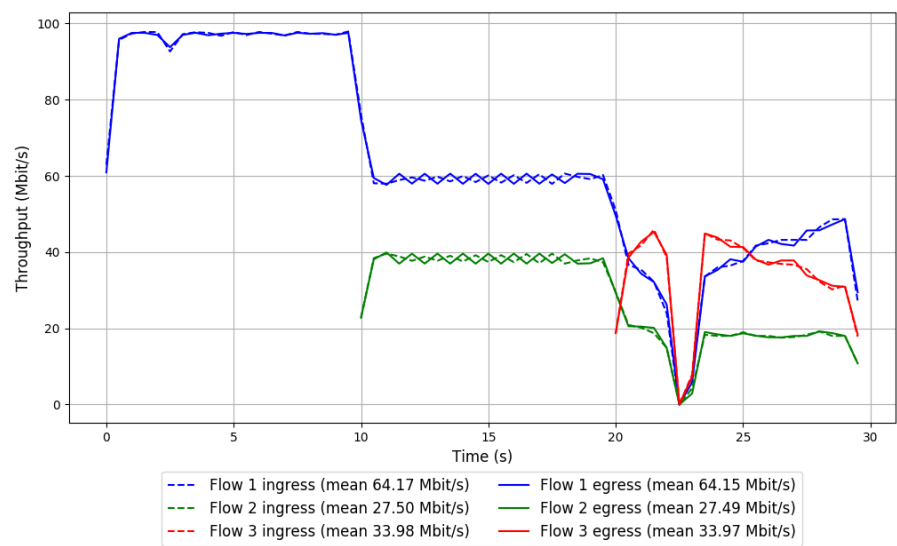
-- Flow 3:

Average throughput: 33.97 Mbit/s

95th percentile per-packet one-way delay: 24.063 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

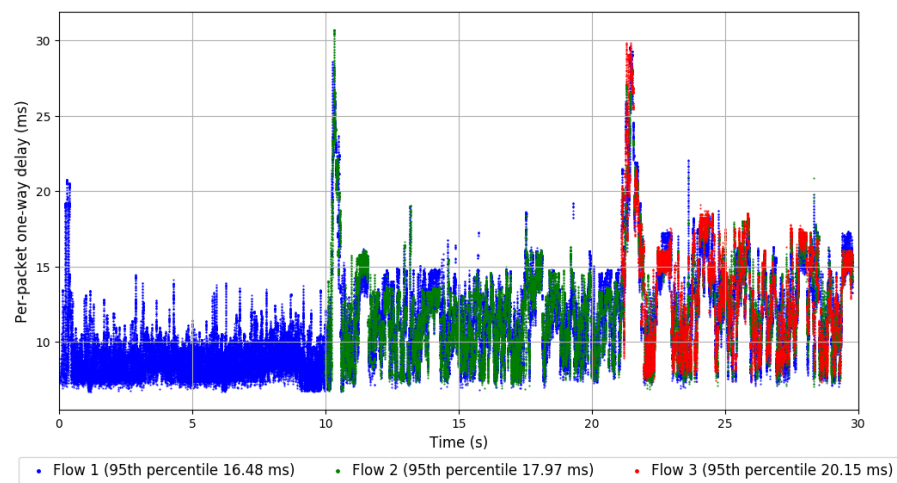
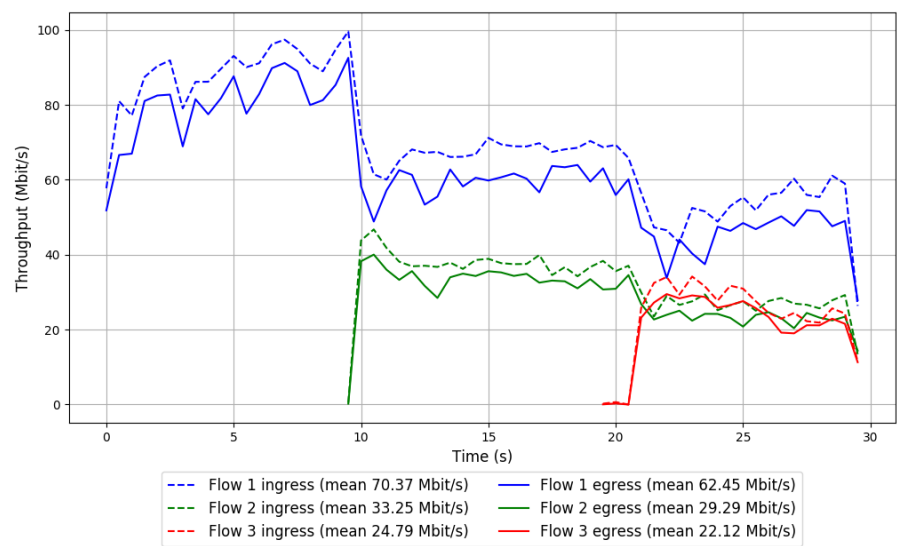


Run 4: Statistics of Indigo

Start at: 2017-10-12 07:38:55
End at: 2017-10-12 07:39:25
Local clock offset: 2.597 ms
Remote clock offset: 15.786 ms

```
# Below is generated by plot.py at 2017-10-12 10:05:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 17.049 ms
Loss rate: 11.33%
-- Flow 1:
Average throughput: 62.45 Mbit/s
95th percentile per-packet one-way delay: 16.475 ms
Loss rate: 11.23%
-- Flow 2:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 17.974 ms
Loss rate: 11.86%
-- Flow 3:
Average throughput: 22.12 Mbit/s
95th percentile per-packet one-way delay: 20.152 ms
Loss rate: 10.72%
```

Run 4: Report of Indigo — Data Link

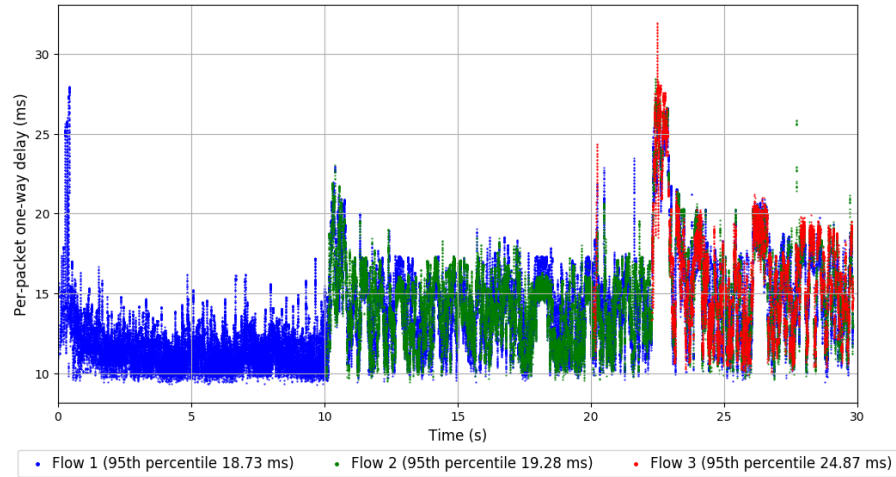
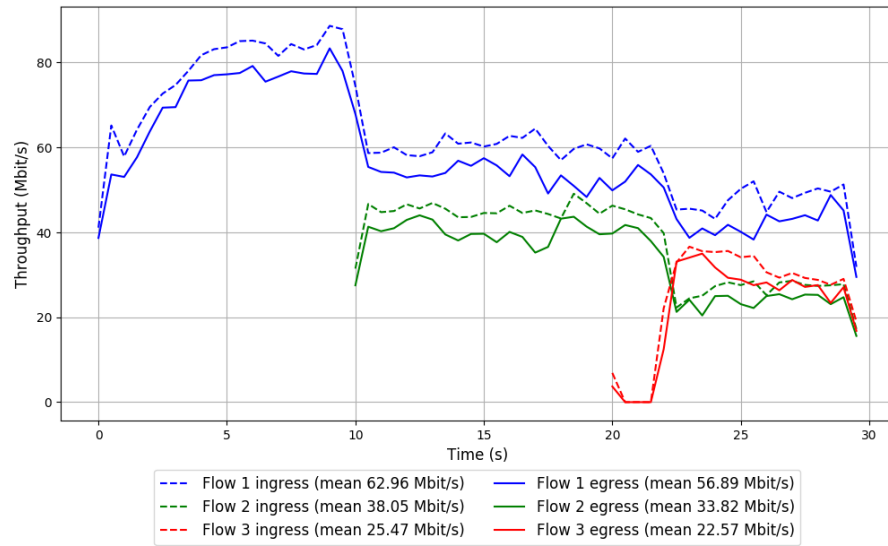


Run 5: Statistics of Indigo

Start at: 2017-10-12 07:57:34
End at: 2017-10-12 07:58:04
Local clock offset: 0.466 ms
Remote clock offset: 12.806 ms

Below is generated by plot.py at 2017-10-12 10:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 19.369 ms
Loss rate: 10.18%
-- Flow 1:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 18.727 ms
Loss rate: 9.64%
-- Flow 2:
Average throughput: 33.82 Mbit/s
95th percentile per-packet one-way delay: 19.282 ms
Loss rate: 11.12%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 24.868 ms
Loss rate: 11.40%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-10-12 08:16:17

End at: 2017-10-12 08:16:47

Local clock offset: 3.337 ms

Remote clock offset: 10.14 ms

Below is generated by plot.py at 2017-10-12 10:05:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 16.385 ms

Loss rate: 10.63%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 15.615 ms

Loss rate: 10.21%

-- Flow 2:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 16.843 ms

Loss rate: 11.54%

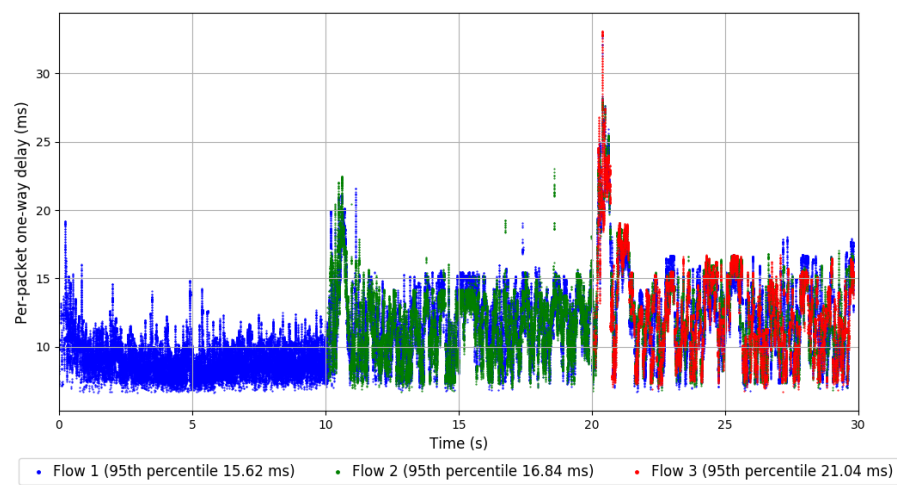
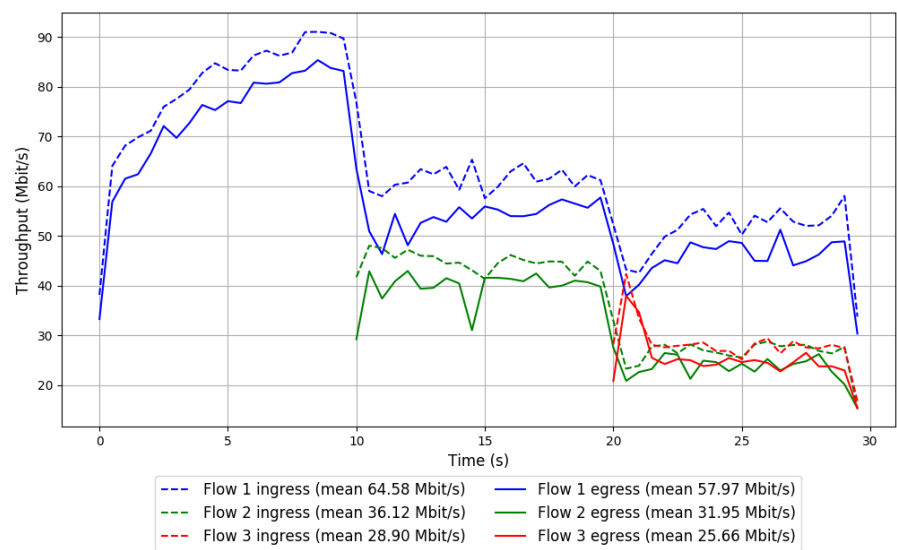
-- Flow 3:

Average throughput: 25.66 Mbit/s

95th percentile per-packet one-way delay: 21.036 ms

Loss rate: 11.17%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-10-12 08:32:33

End at: 2017-10-12 08:33:03

Local clock offset: 3.1 ms

Remote clock offset: 8.203 ms

Below is generated by plot.py at 2017-10-12 10:06:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 16.607 ms

Loss rate: 13.56%

-- Flow 1:

Average throughput: 61.22 Mbit/s

95th percentile per-packet one-way delay: 15.698 ms

Loss rate: 12.92%

-- Flow 2:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 17.167 ms

Loss rate: 13.62%

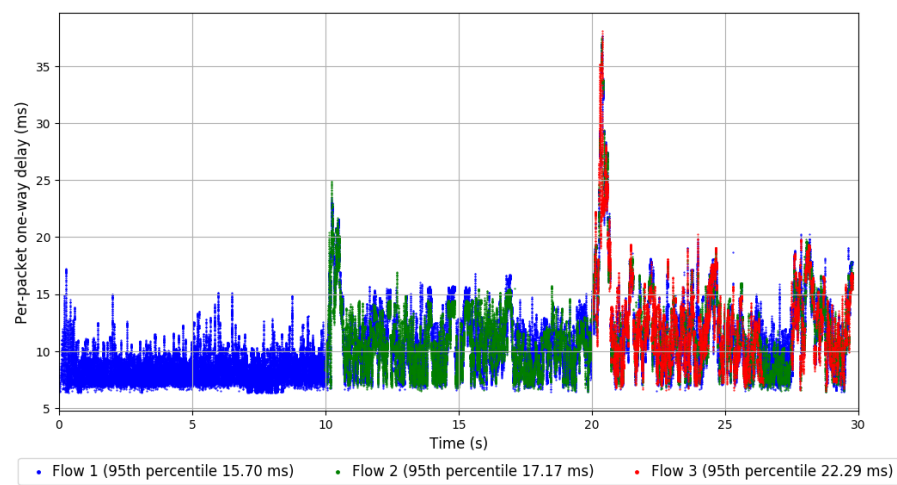
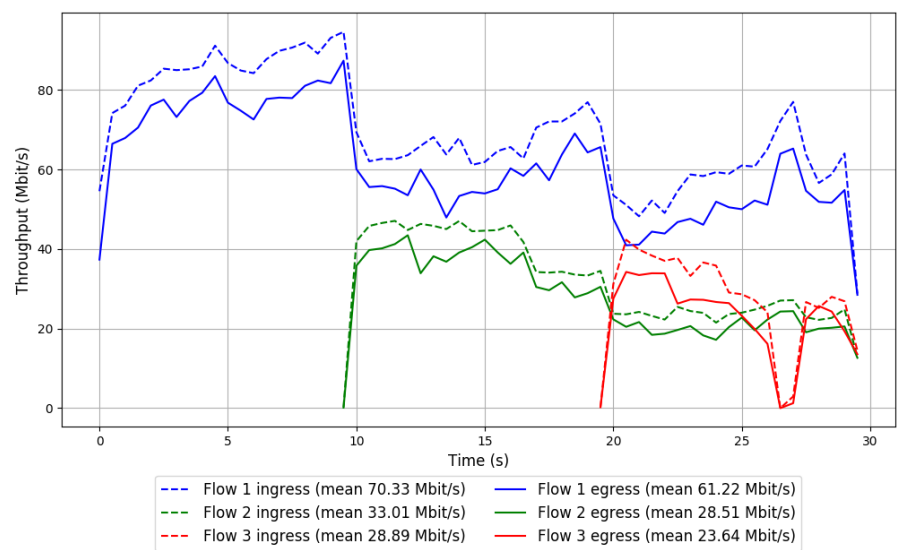
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 22.291 ms

Loss rate: 18.14%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-10-12 08:48:50

End at: 2017-10-12 08:49:20

Local clock offset: 2.768 ms

Remote clock offset: 6.392 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 17.458 ms

Loss rate: 13.07%

-- Flow 1:

Average throughput: 61.01 Mbit/s

95th percentile per-packet one-way delay: 16.700 ms

Loss rate: 13.08%

-- Flow 2:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 17.698 ms

Loss rate: 12.91%

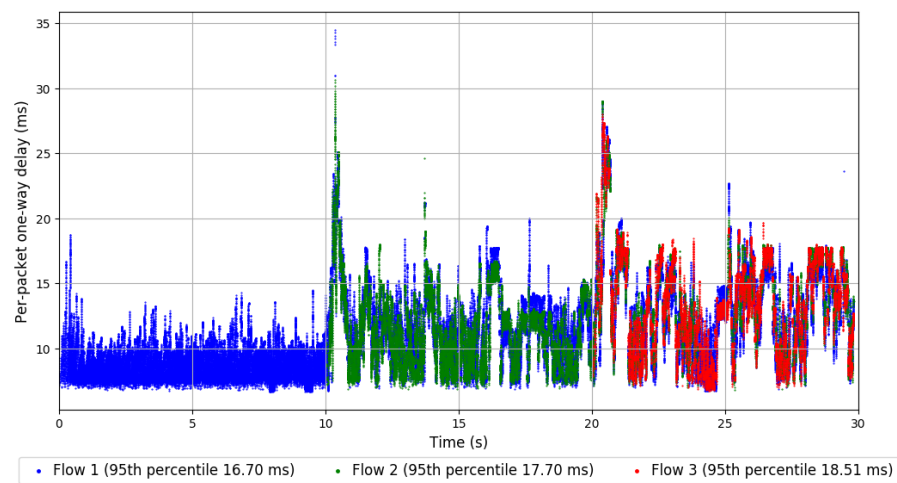
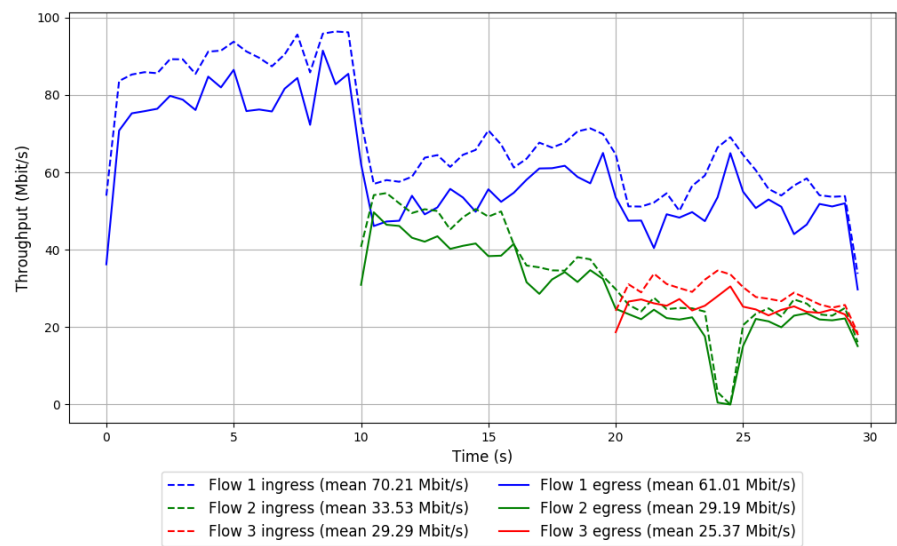
-- Flow 3:

Average throughput: 25.37 Mbit/s

95th percentile per-packet one-way delay: 18.510 ms

Loss rate: 13.34%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-12 09:04:56

End at: 2017-10-12 09:05:26

Local clock offset: 3.067 ms

Remote clock offset: 5.642 ms

Below is generated by plot.py at 2017-10-12 10:06:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 16.870 ms

Loss rate: 10.22%

-- Flow 1:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 16.069 ms

Loss rate: 10.33%

-- Flow 2:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 17.280 ms

Loss rate: 9.71%

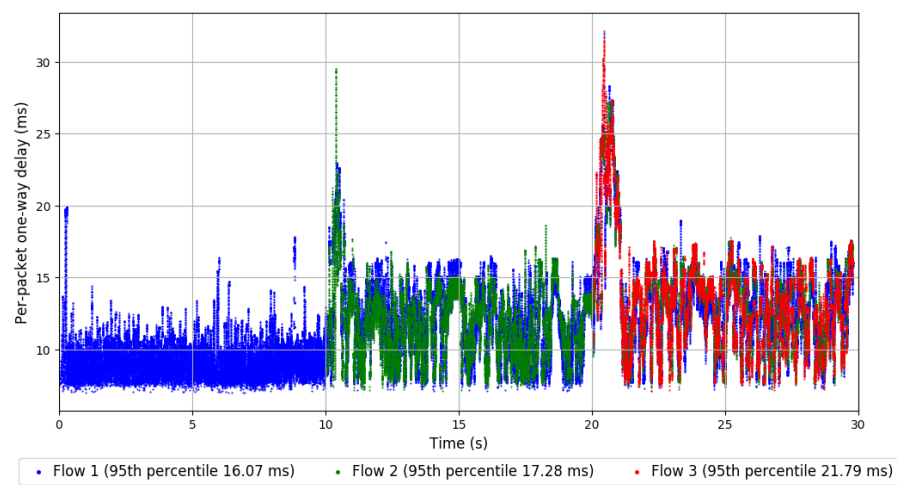
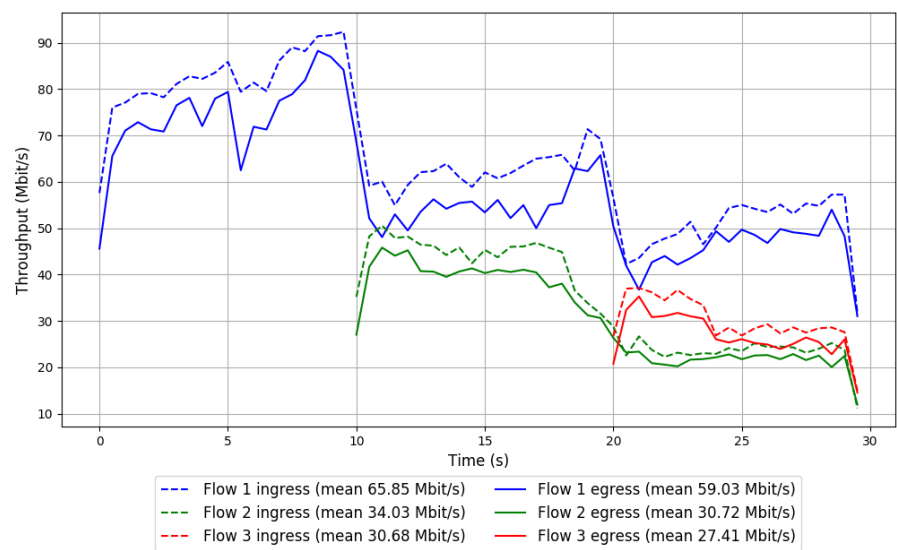
-- Flow 3:

Average throughput: 27.41 Mbit/s

95th percentile per-packet one-way delay: 21.786 ms

Loss rate: 10.63%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-12 09:21:13

End at: 2017-10-12 09:21:43

Local clock offset: 3.245 ms

Remote clock offset: 4.502 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.14 Mbit/s

95th percentile per-packet one-way delay: 18.220 ms

Loss rate: 12.84%

-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 16.854 ms

Loss rate: 12.71%

-- Flow 2:

Average throughput: 38.30 Mbit/s

95th percentile per-packet one-way delay: 19.175 ms

Loss rate: 12.37%

-- Flow 3:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 22.623 ms

Loss rate: 15.42%

Run 10: Report of Indigo — Data Link

