

Pantheon Report

Generated at 2017-11-16 15:18:12 (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).

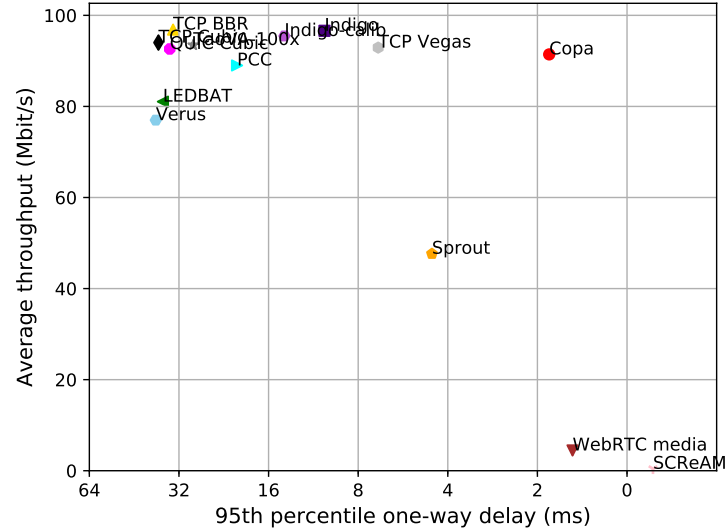
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

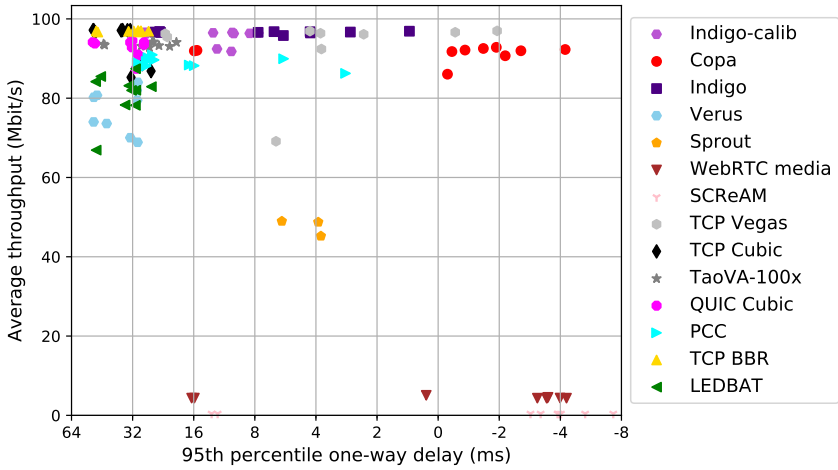
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
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



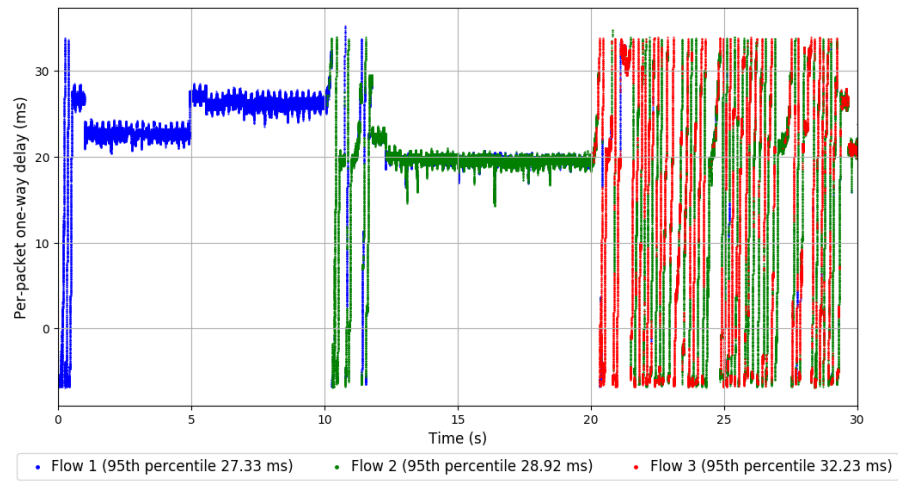
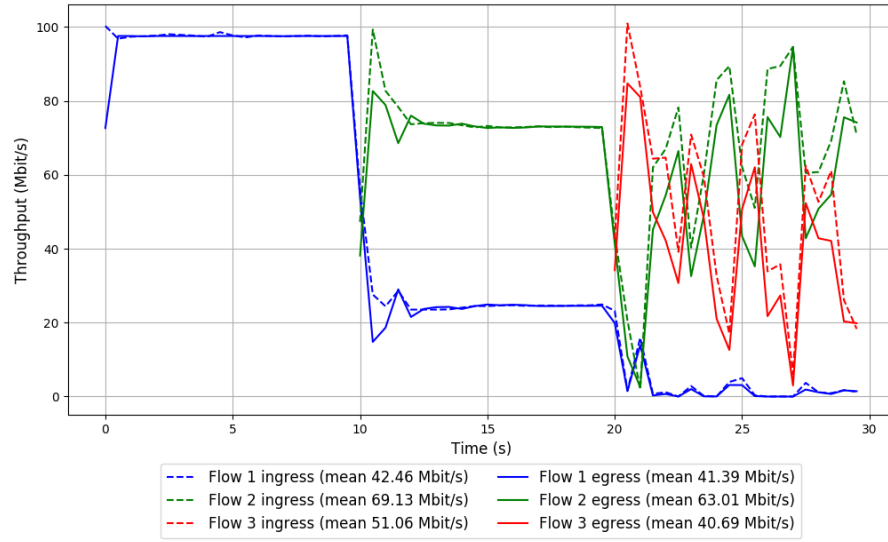
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	54.57	47.52	32.29	31.95	33.58	35.52	3.26	7.53	12.23
TCP Cubic	10	61.11	34.18	30.64	37.32	37.36	37.45	0.77	0.53	0.81
LEDBAT	10	49.98	34.62	24.34	35.46	36.91	37.04	0.36	0.51	0.76
PCC	10	78.78	10.92	8.96	20.09	22.23	16.57	0.85	0.72	0.19
QUIC Cubic	10	62.61	33.77	23.18	34.31	34.28	34.25	1.42	1.74	1.89
SCReAM	9	0.21	0.21	0.22	-0.57	-0.59	-0.60	0.00	0.00	0.00
WebRTC media	9	2.40	1.50	0.56	0.86	1.08	2.45	0.01	0.00	0.02
Sprout	3	23.77	24.12	24.29	4.54	4.24	4.03	0.13	0.09	0.00
TaoVA-100x	10	56.92	41.70	34.50	25.81	29.77	32.13	3.00	6.20	15.34
TCP Vegas	9	55.56	39.71	31.99	237.90	2.61	1.51	0.15	0.04	0.00
Verus	9	47.40	32.02	27.13	36.19	40.25	35.94	29.23	45.76	32.44
Copa	10	57.93	39.10	29.60	1.40	2.04	2.61	0.00	0.00	0.00
Indigo	10	63.30	33.35	34.08	9.33	11.70	14.66	0.02	0.02	0.02
Indigo-calib	9	61.14	32.90	34.63	10.00	17.71	20.26	0.04	0.05	0.02

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 11:12:35
End at: 2017-11-16 11:13:05
Local clock offset: 3.057 ms
Remote clock offset: -16.982 ms

Below is generated by plot.py at 2017-11-16 14:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 29.039 ms
Loss rate: 8.13%
-- Flow 1:
Average throughput: 41.39 Mbit/s
95th percentile per-packet one-way delay: 27.328 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 63.01 Mbit/s
95th percentile per-packet one-way delay: 28.918 ms
Loss rate: 8.87%
-- Flow 3:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 32.227 ms
Loss rate: 20.33%

Run 1: Report of TCP BBR — Data Link

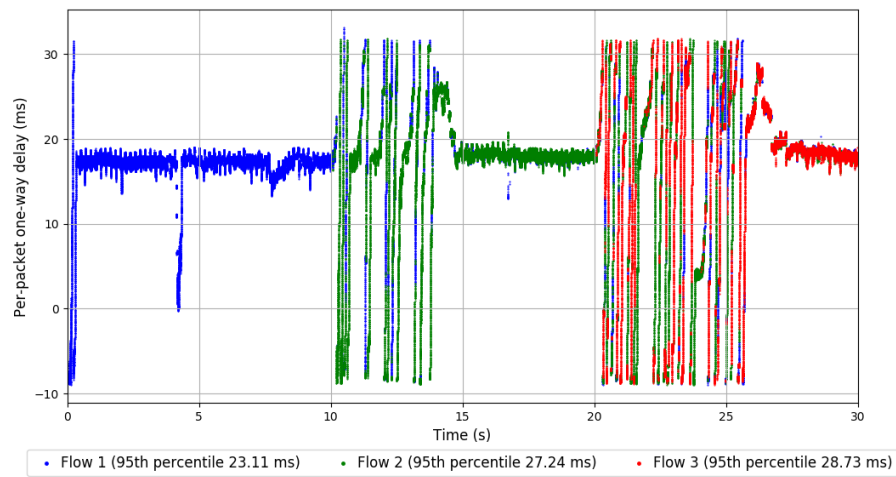
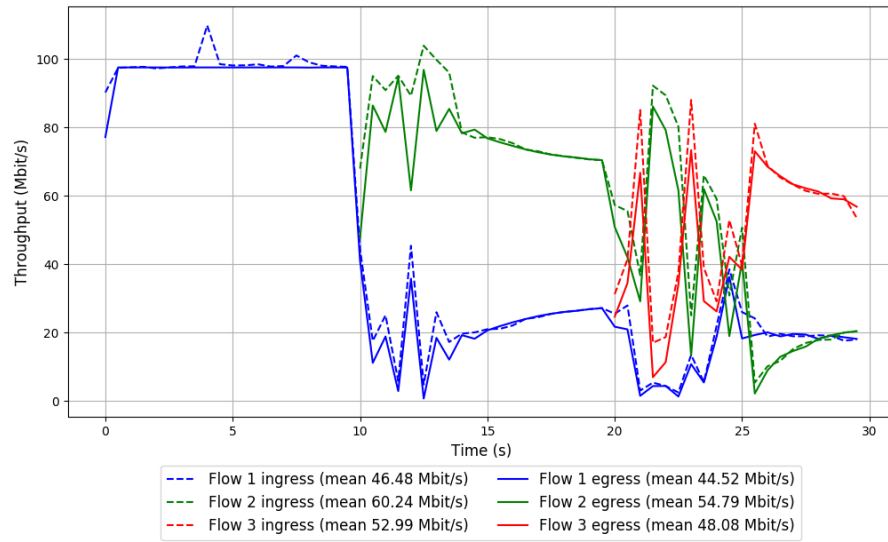


Run 2: Statistics of TCP BBR

Start at: 2017-11-16 11:31:08
End at: 2017-11-16 11:31:38
Local clock offset: 4.177 ms
Remote clock offset: -17.292 ms

Below is generated by plot.py at 2017-11-16 14:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 26.699 ms
Loss rate: 6.89%
-- Flow 1:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 23.114 ms
Loss rate: 4.13%
-- Flow 2:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 27.241 ms
Loss rate: 9.05%
-- Flow 3:
Average throughput: 48.08 Mbit/s
95th percentile per-packet one-way delay: 28.734 ms
Loss rate: 9.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 11:50:35

End at: 2017-11-16 11:51:05

Local clock offset: 3.805 ms

Remote clock offset: 2.98 ms

Below is generated by plot.py at 2017-11-16 14:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 47.498 ms

Loss rate: 6.20%

-- Flow 1:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 46.139 ms

Loss rate: 4.51%

-- Flow 2:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 49.264 ms

Loss rate: 8.86%

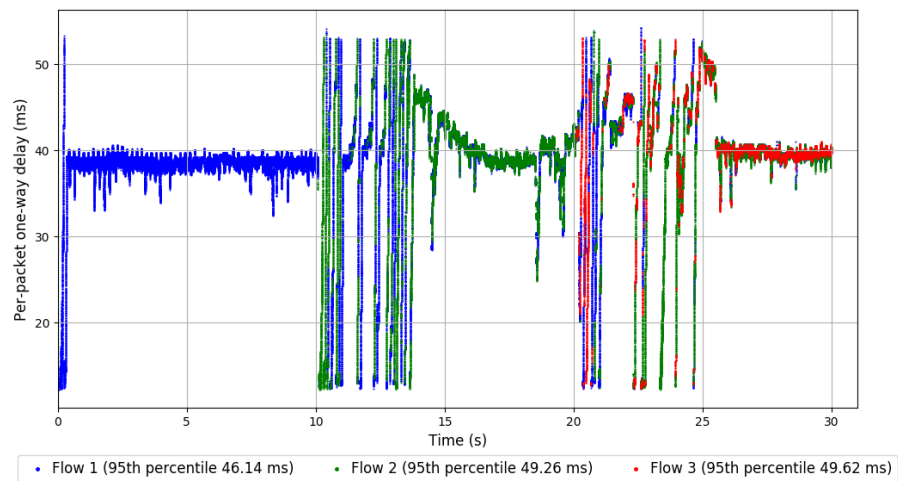
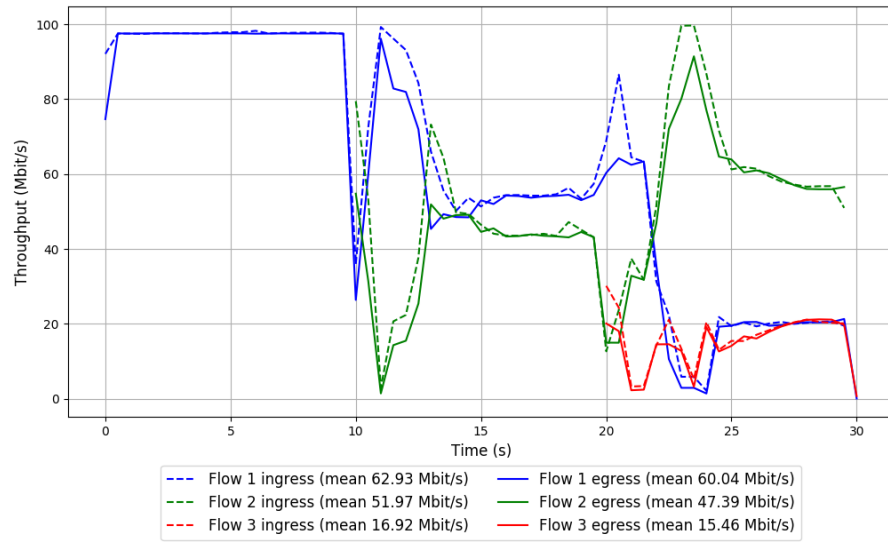
-- Flow 3:

Average throughput: 15.46 Mbit/s

95th percentile per-packet one-way delay: 49.622 ms

Loss rate: 8.62%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 12:10:30

End at: 2017-11-16 12:11:00

Local clock offset: 4.77 ms

Remote clock offset: 2.19 ms

Below is generated by plot.py at 2017-11-16 14:56:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 48.353 ms

Loss rate: 5.81%

-- Flow 1:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 48.014 ms

Loss rate: 3.64%

-- Flow 2:

Average throughput: 38.82 Mbit/s

95th percentile per-packet one-way delay: 46.053 ms

Loss rate: 6.28%

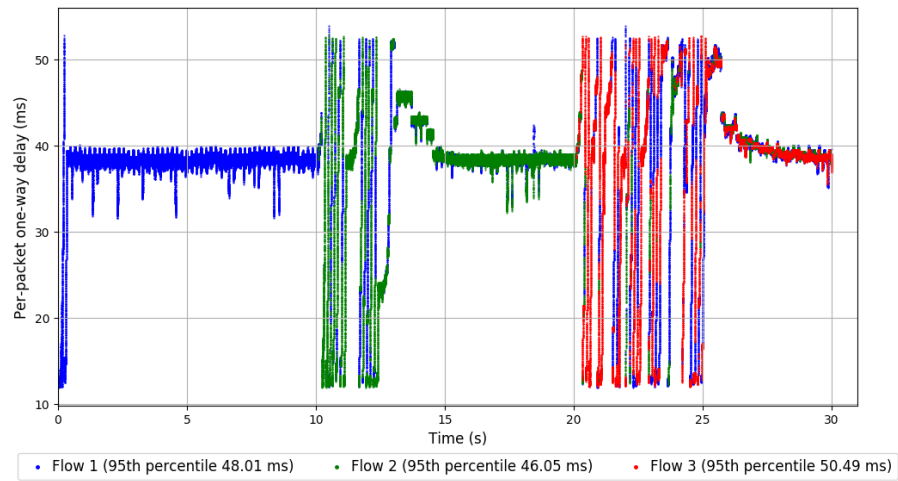
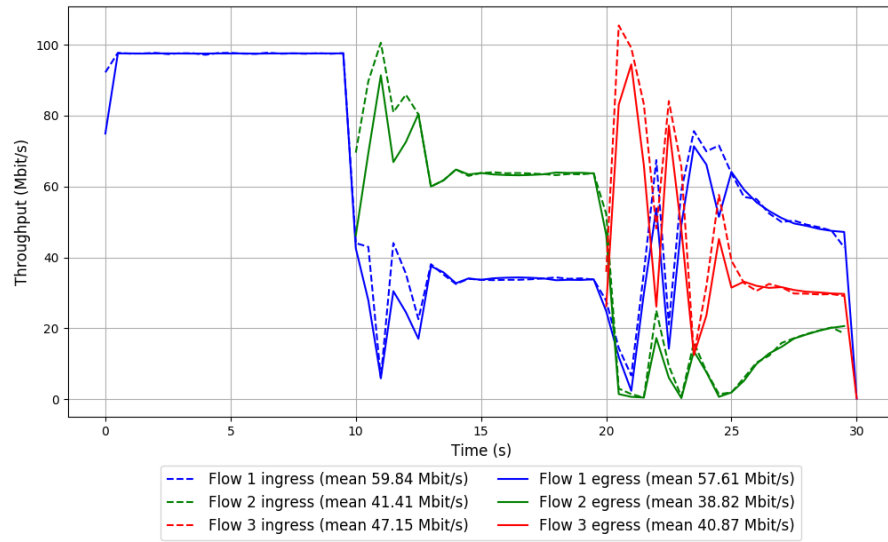
-- Flow 3:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 13.31%

Run 4: Report of TCP BBR — Data Link

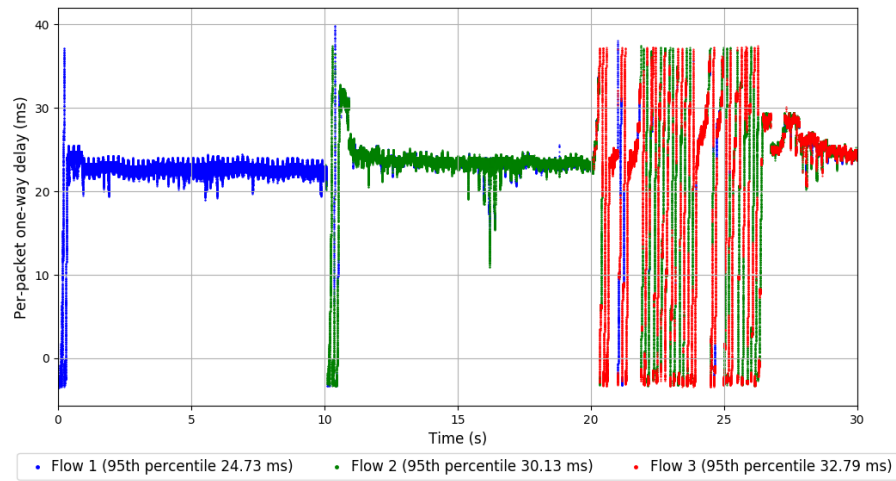
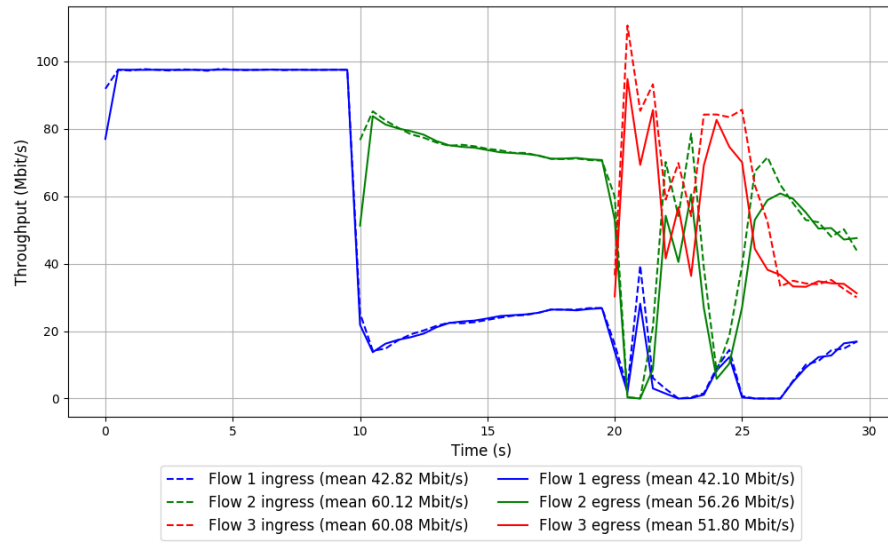


Run 5: Statistics of TCP BBR

Start at: 2017-11-16 12:30:54
End at: 2017-11-16 12:31:24
Local clock offset: 2.292 ms
Remote clock offset: -15.665 ms

Below is generated by plot.py at 2017-11-16 14:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 29.777 ms
Loss rate: 5.83%
-- Flow 1:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 24.729 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 30.126 ms
Loss rate: 6.41%
-- Flow 3:
Average throughput: 51.80 Mbit/s
95th percentile per-packet one-way delay: 32.787 ms
Loss rate: 13.78%

Run 5: Report of TCP BBR — Data Link

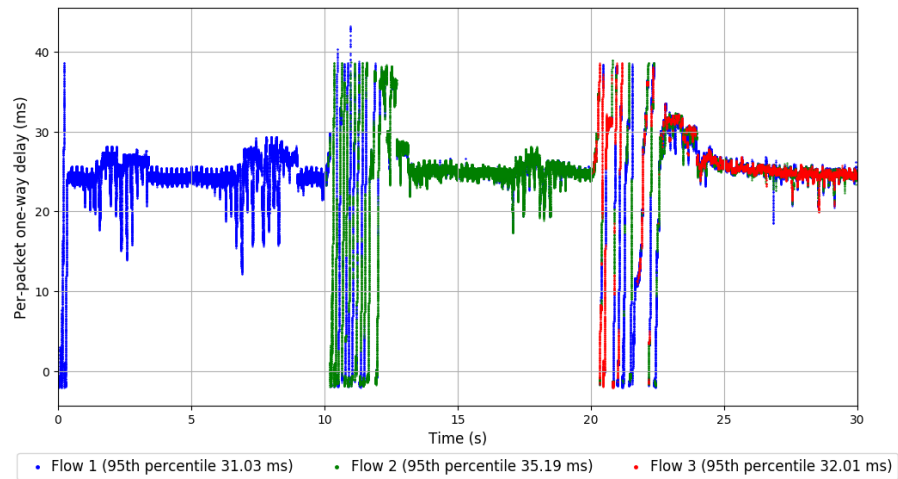
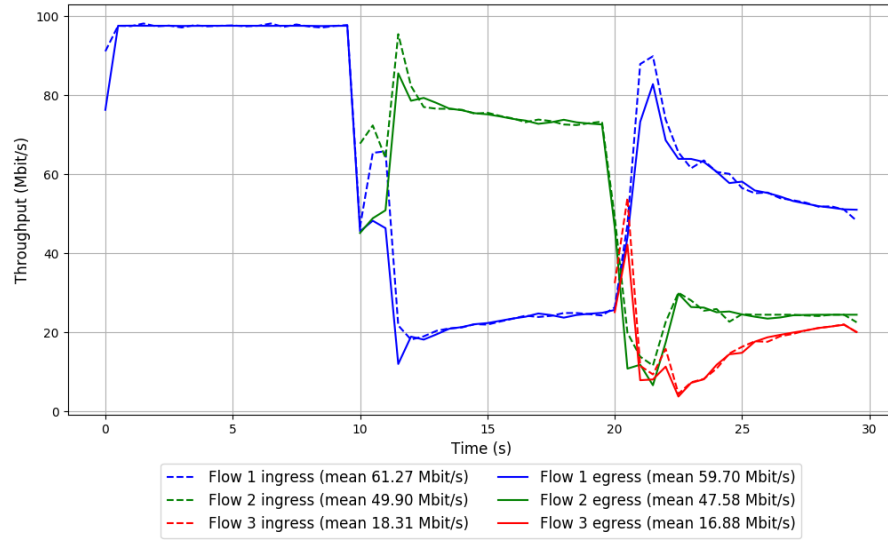


Run 6: Statistics of TCP BBR

Start at: 2017-11-16 12:51:45
End at: 2017-11-16 12:52:15
Local clock offset: -0.174 ms
Remote clock offset: -16.377 ms

Below is generated by plot.py at 2017-11-16 14:56:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 31.615 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 59.70 Mbit/s
95th percentile per-packet one-way delay: 31.028 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 47.58 Mbit/s
95th percentile per-packet one-way delay: 35.190 ms
Loss rate: 4.66%
-- Flow 3:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 32.012 ms
Loss rate: 7.82%

Run 6: Report of TCP BBR — Data Link

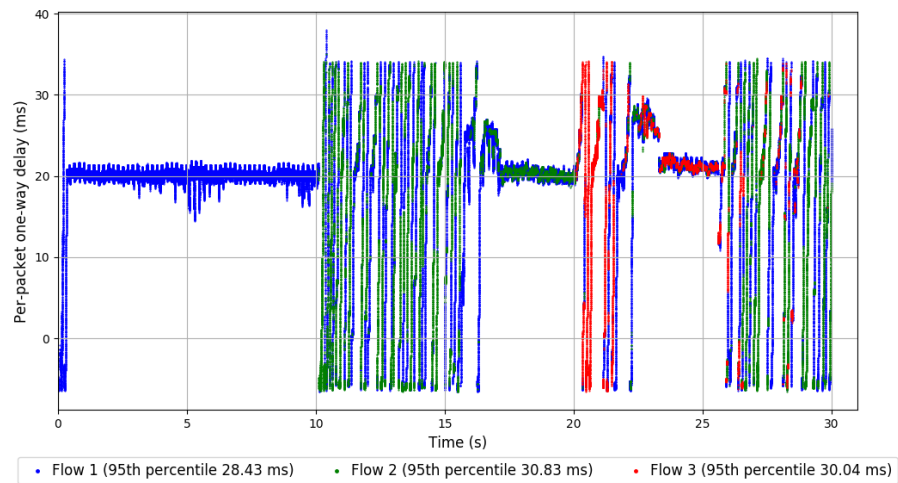
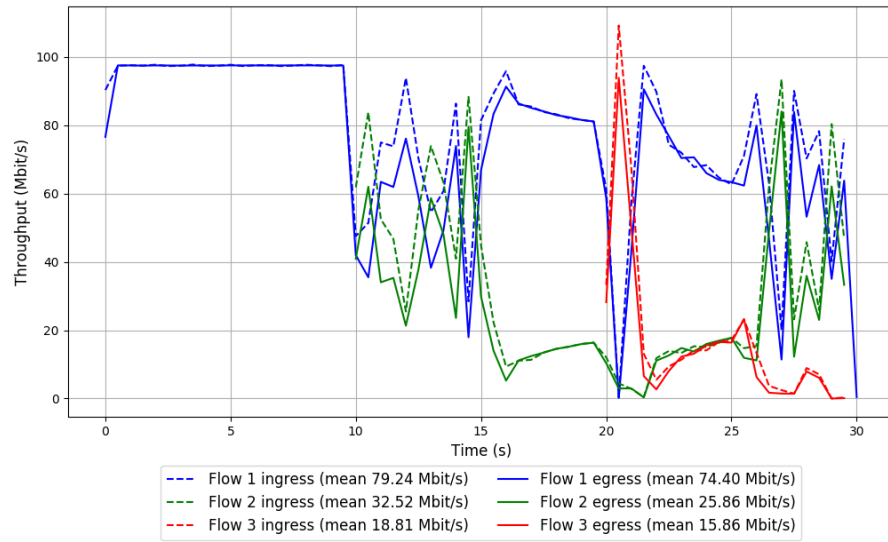


Run 7: Statistics of TCP BBR

Start at: 2017-11-16 13:11:35
End at: 2017-11-16 13:12:05
Local clock offset: 2.667 ms
Remote clock offset: -18.356 ms

Below is generated by plot.py at 2017-11-16 14:56:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 29.195 ms
Loss rate: 9.53%
-- Flow 1:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 28.428 ms
Loss rate: 6.01%
-- Flow 2:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 30.829 ms
Loss rate: 20.50%
-- Flow 3:
Average throughput: 15.86 Mbit/s
95th percentile per-packet one-way delay: 30.040 ms
Loss rate: 16.13%

Run 7: Report of TCP BBR — Data Link

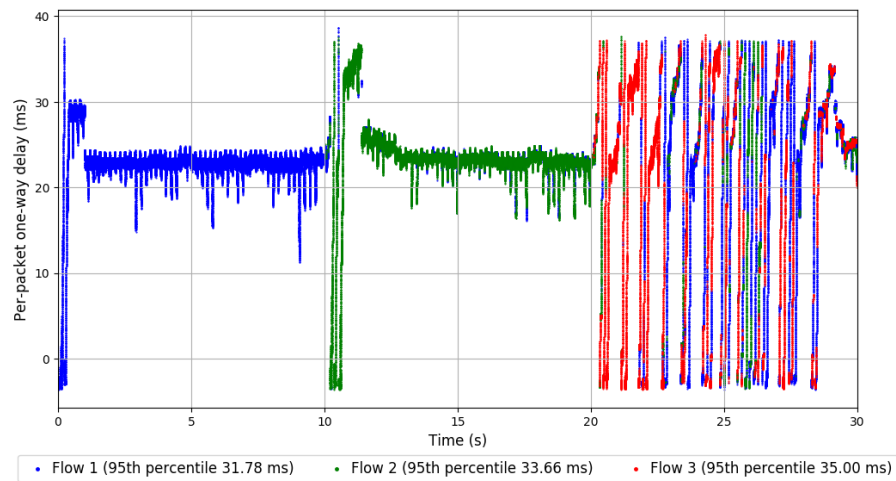
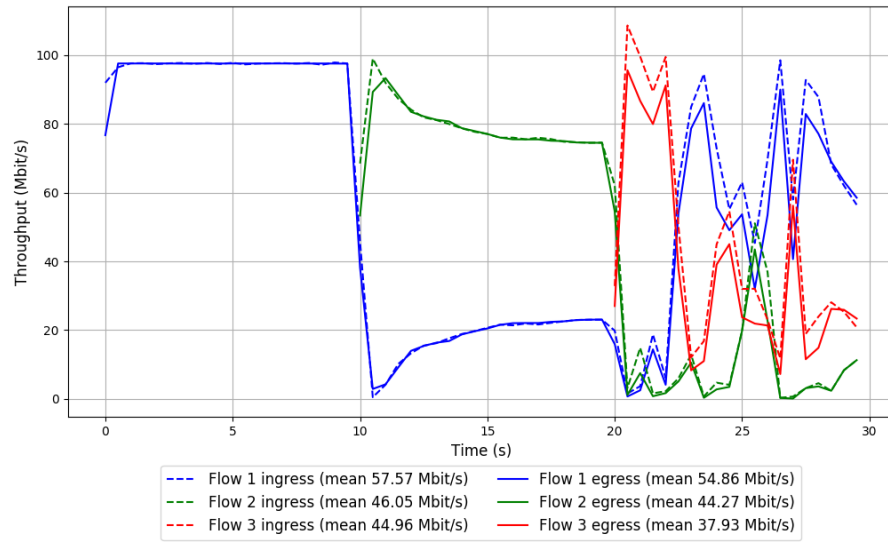


Run 8: Statistics of TCP BBR

Start at: 2017-11-16 13:33:39
End at: 2017-11-16 13:34:09
Local clock offset: -0.92 ms
Remote clock offset: -18.635 ms

Below is generated by plot.py at 2017-11-16 14:56:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 33.505 ms
Loss rate: 6.00%
-- Flow 1:
Average throughput: 54.86 Mbit/s
95th percentile per-packet one-way delay: 31.783 ms
Loss rate: 4.63%
-- Flow 2:
Average throughput: 44.27 Mbit/s
95th percentile per-packet one-way delay: 33.657 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 34.999 ms
Loss rate: 15.67%

Run 8: Report of TCP BBR — Data Link

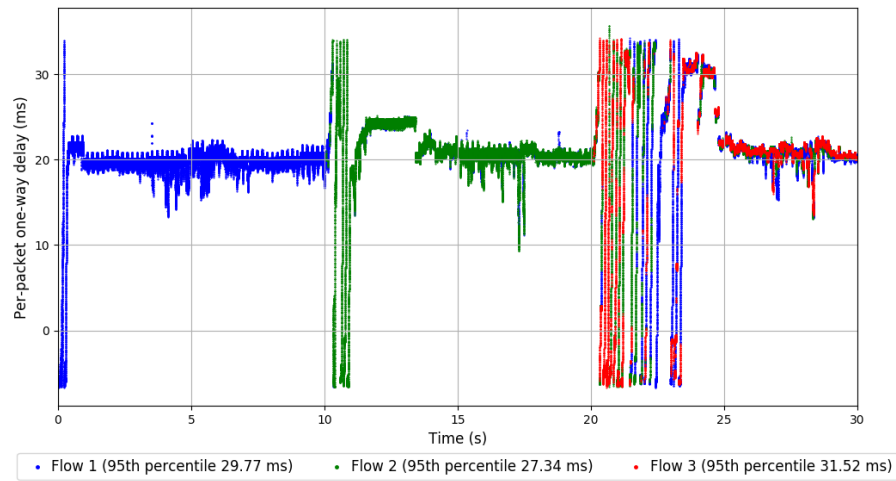
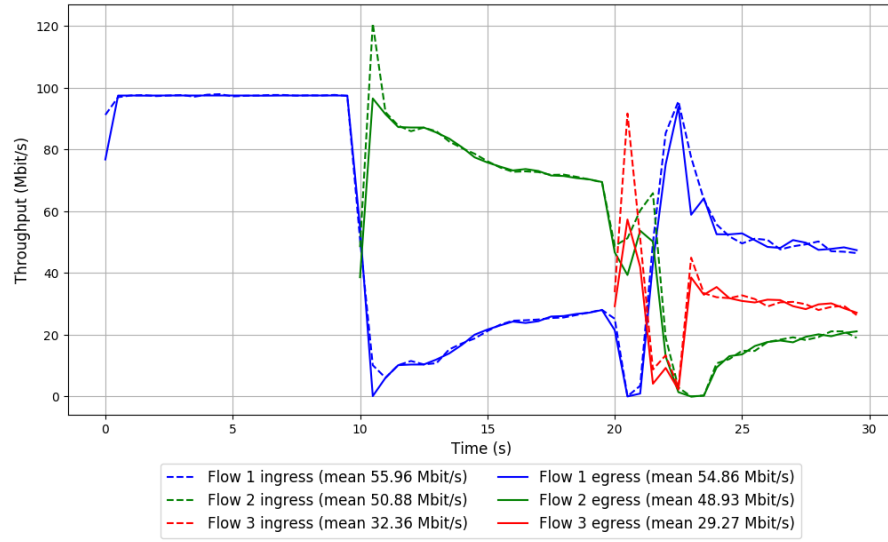


Run 9: Statistics of TCP BBR

Start at: 2017-11-16 13:55:56
End at: 2017-11-16 13:56:26
Local clock offset: 1.135 ms
Remote clock offset: -17.785 ms

Below is generated by plot.py at 2017-11-16 14:58:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 30.056 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 54.86 Mbit/s
95th percentile per-packet one-way delay: 29.767 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 48.93 Mbit/s
95th percentile per-packet one-way delay: 27.337 ms
Loss rate: 3.83%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 31.519 ms
Loss rate: 9.54%

Run 9: Report of TCP BBR — Data Link

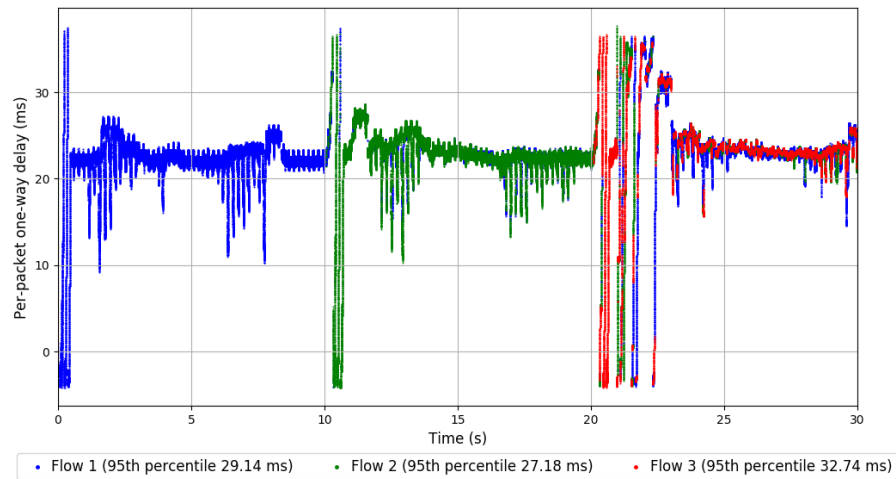
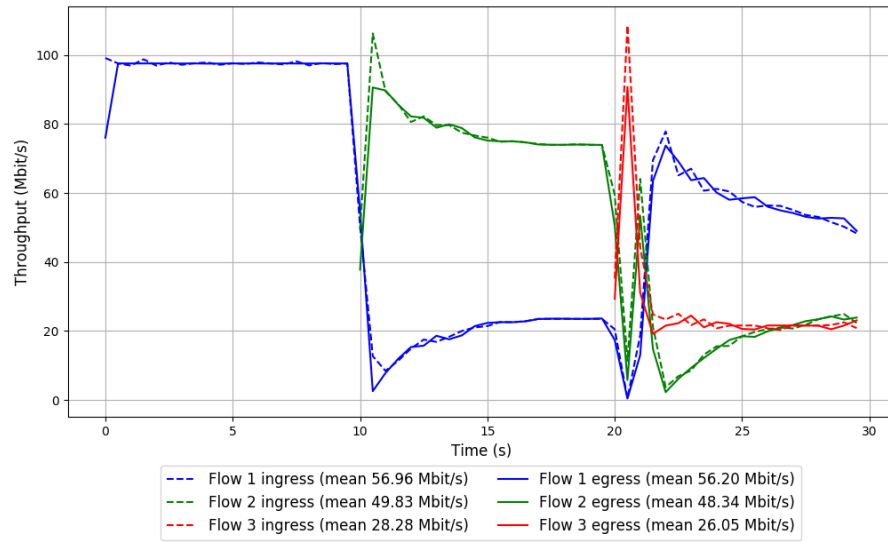


Run 10: Statistics of TCP BBR

Start at: 2017-11-16 14:16:46
End at: 2017-11-16 14:17:16
Local clock offset: -1.832 ms
Remote clock offset: -16.636 ms

Below is generated by plot.py at 2017-11-16 14:58:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 29.117 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 29.142 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 27.185 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 32.736 ms
Loss rate: 7.86%

Run 10: Report of TCP BBR — Data Link

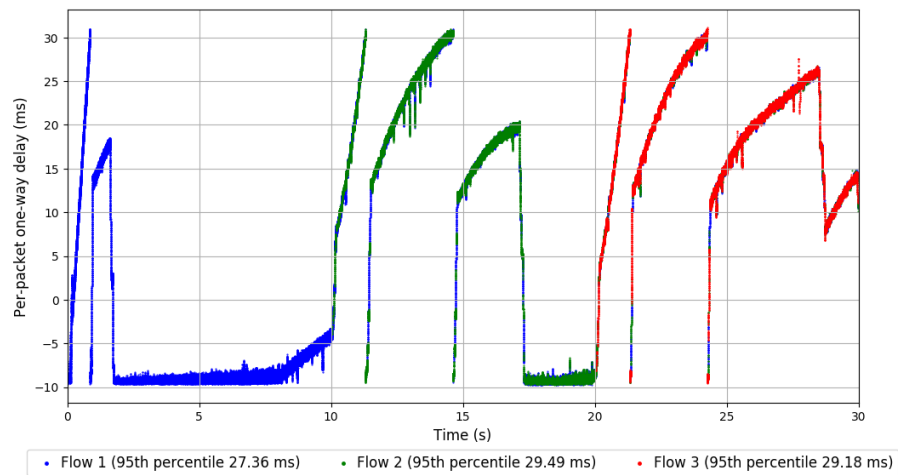
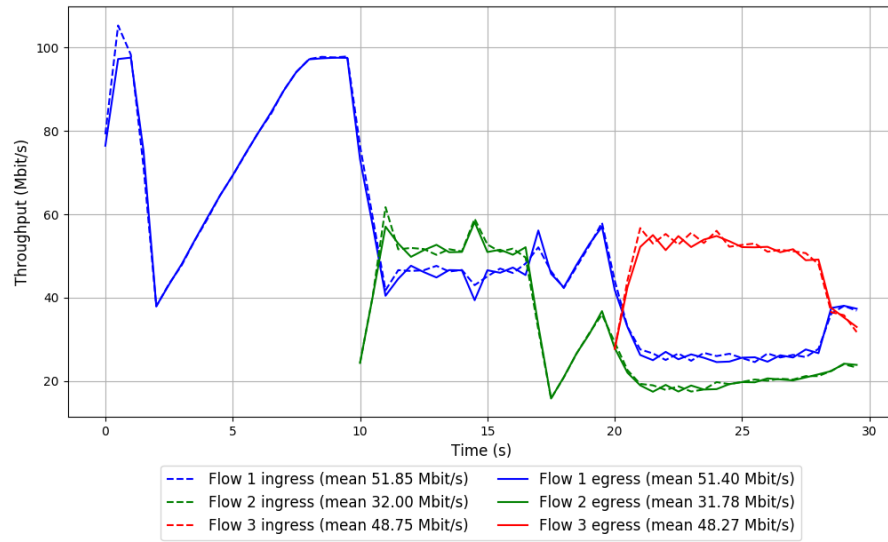


Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 11:19:20
End at: 2017-11-16 11:19:50
Local clock offset: 5.993 ms
Remote clock offset: -16.807 ms

Below is generated by plot.py at 2017-11-16 14:58:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 28.675 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 27.356 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 29.489 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 48.27 Mbit/s
95th percentile per-packet one-way delay: 29.185 ms
Loss rate: 0.80%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 11:38:03

End at: 2017-11-16 11:38:33

Local clock offset: 3.501 ms

Remote clock offset: 2.906 ms

Below is generated by plot.py at 2017-11-16 14:58:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 50.064 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 50.061 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 49.834 ms

Loss rate: 0.17%

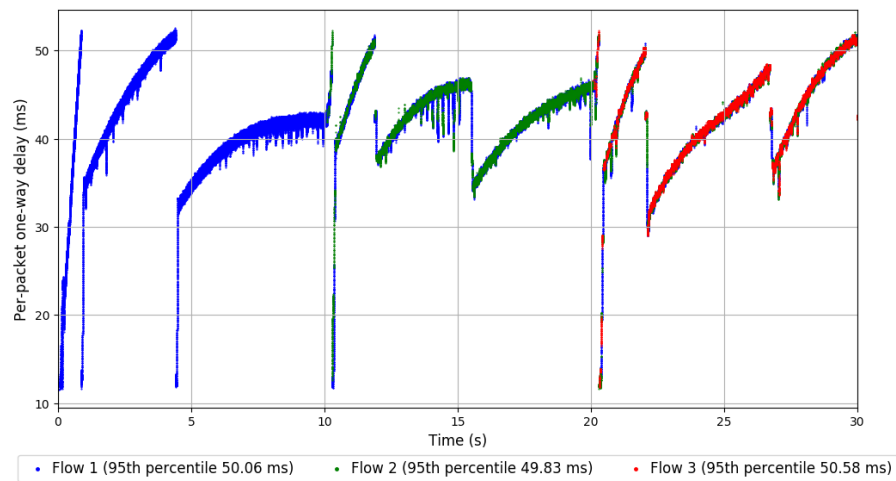
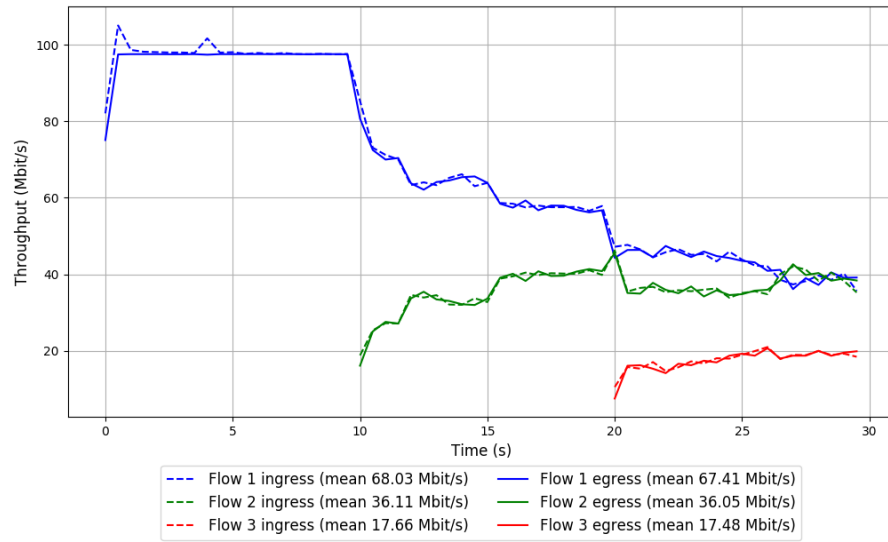
-- Flow 3:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 50.578 ms

Loss rate: 1.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 11:57:51

End at: 2017-11-16 11:58:21

Local clock offset: 4.534 ms

Remote clock offset: 3.56 ms

Below is generated by plot.py at 2017-11-16 14:58:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 48.915 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 67.44 Mbit/s

95th percentile per-packet one-way delay: 49.437 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 29.50 Mbit/s

95th percentile per-packet one-way delay: 48.202 ms

Loss rate: 0.20%

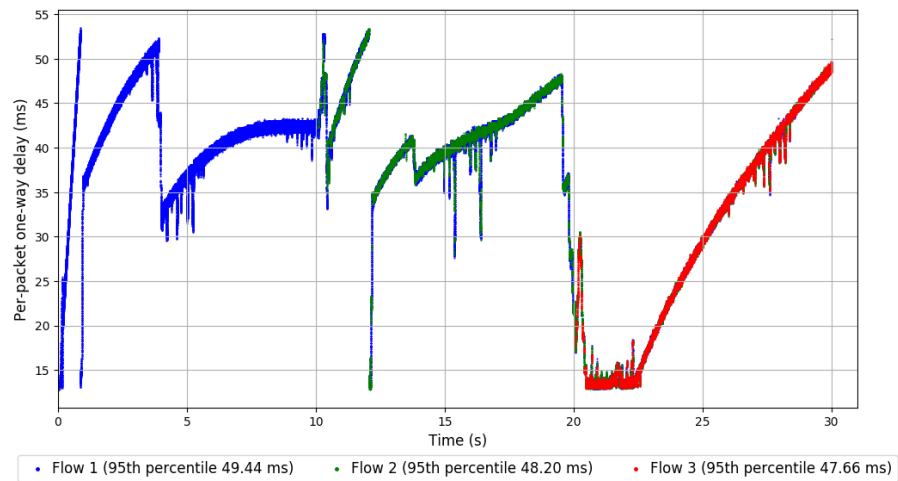
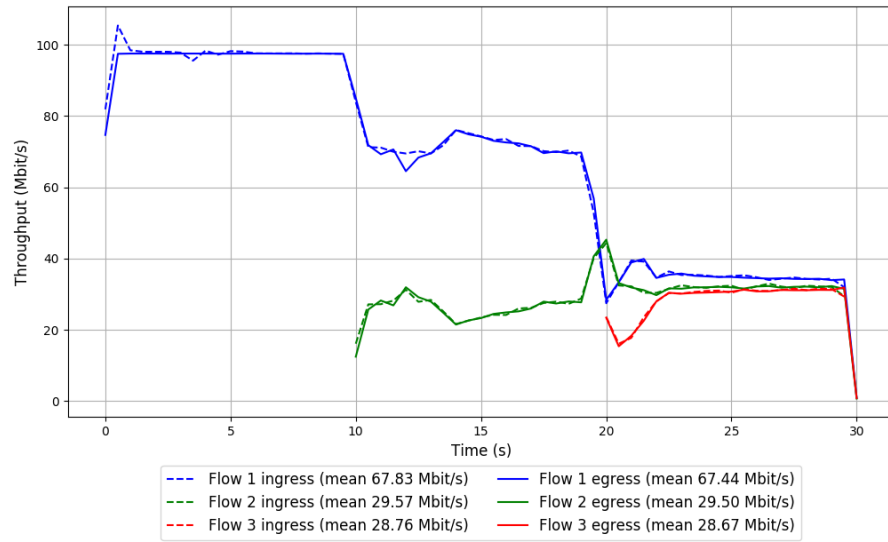
-- Flow 3:

Average throughput: 28.67 Mbit/s

95th percentile per-packet one-way delay: 47.664 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 12:18:09

End at: 2017-11-16 12:18:39

Local clock offset: 4.911 ms

Remote clock offset: 0.852 ms

Below is generated by plot.py at 2017-11-16 14:58:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 49.757 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 61.84 Mbit/s

95th percentile per-packet one-way delay: 49.701 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 49.774 ms

Loss rate: 0.57%

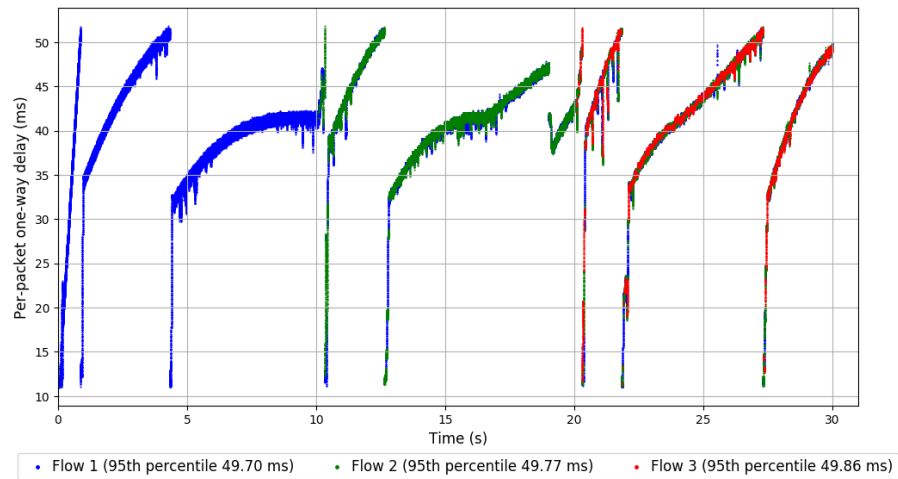
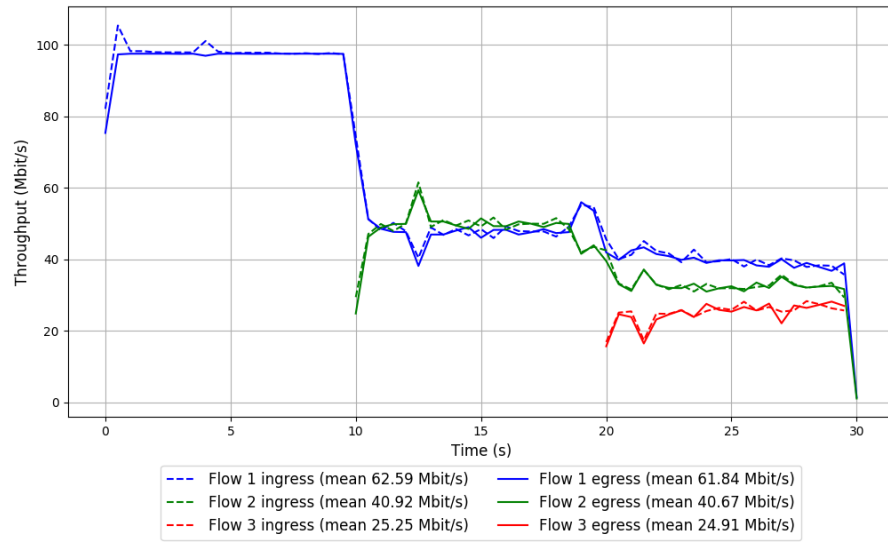
-- Flow 3:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 49.862 ms

Loss rate: 1.27%

Run 4: Report of TCP Cubic — Data Link

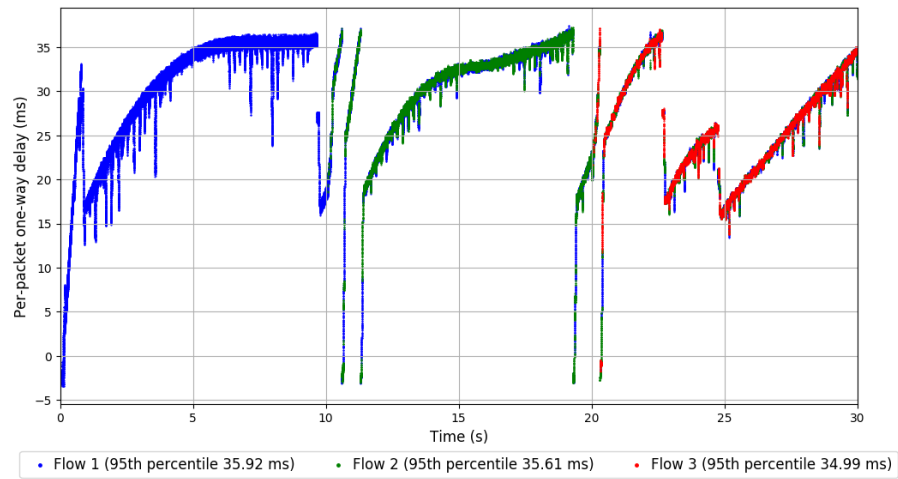
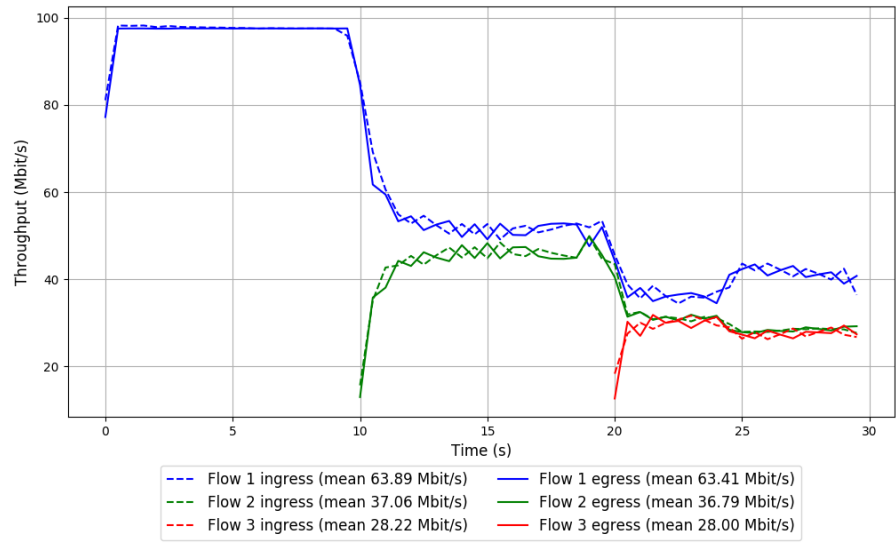


Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 12:38:47
End at: 2017-11-16 12:39:17
Local clock offset: 0.887 ms
Remote clock offset: -17.055 ms

Below is generated by plot.py at 2017-11-16 14:58:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 35.858 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 63.41 Mbit/s
95th percentile per-packet one-way delay: 35.921 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 35.611 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 28.00 Mbit/s
95th percentile per-packet one-way delay: 34.995 ms
Loss rate: 0.64%

Run 5: Report of TCP Cubic — Data Link

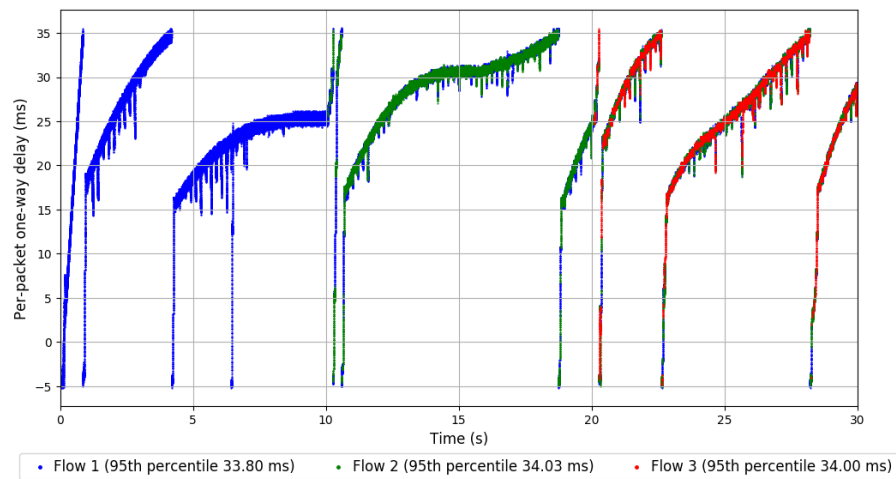
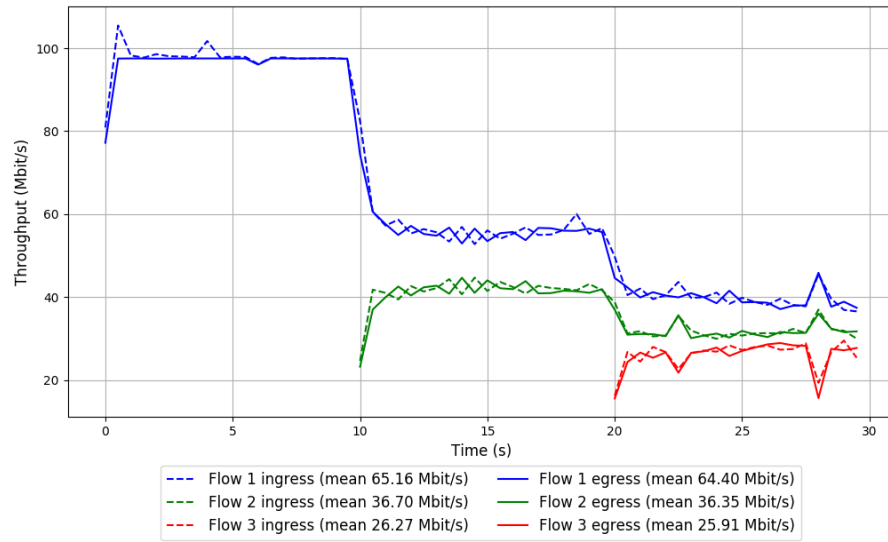


Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 12:58:59
End at: 2017-11-16 12:59:29
Local clock offset: 0.219 ms
Remote clock offset: -18.924 ms

Below is generated by plot.py at 2017-11-16 14:58:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 33.927 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 33.795 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 34.026 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 34.002 ms
Loss rate: 1.37%

Run 6: Report of TCP Cubic — Data Link

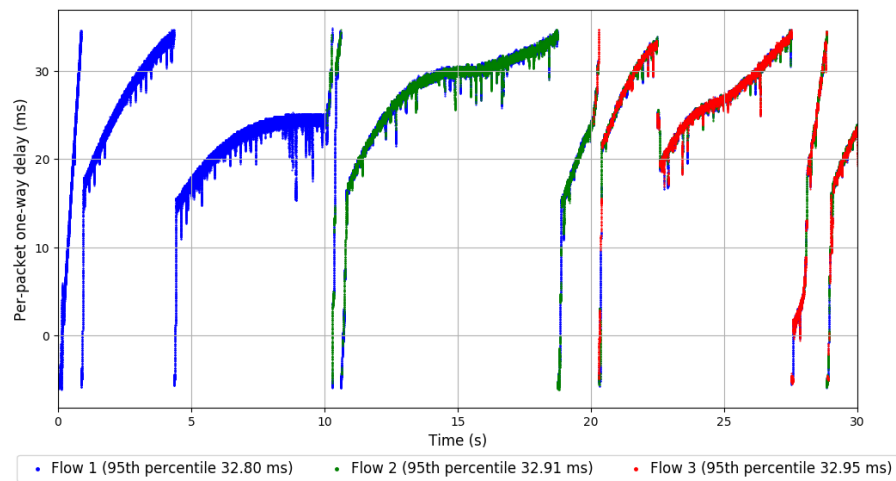
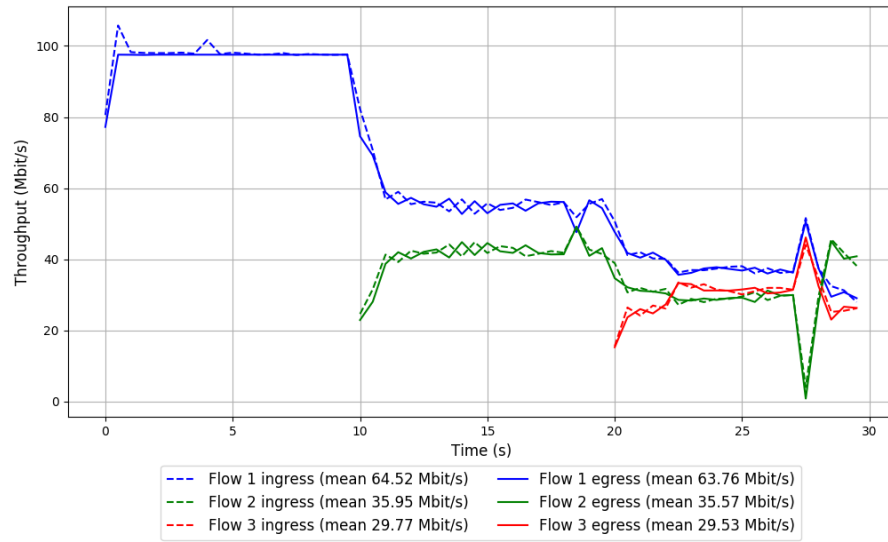


Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 13:19:16
End at: 2017-11-16 13:19:46
Local clock offset: 2.471 ms
Remote clock offset: -17.839 ms

Below is generated by plot.py at 2017-11-16 14:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 32.868 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 63.76 Mbit/s
95th percentile per-packet one-way delay: 32.804 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 32.912 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 32.953 ms
Loss rate: 0.82%

Run 7: Report of TCP Cubic — Data Link

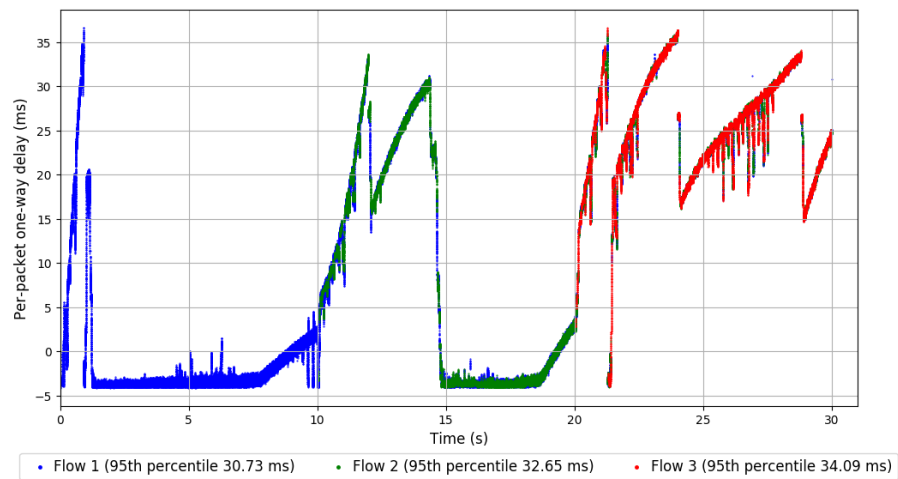
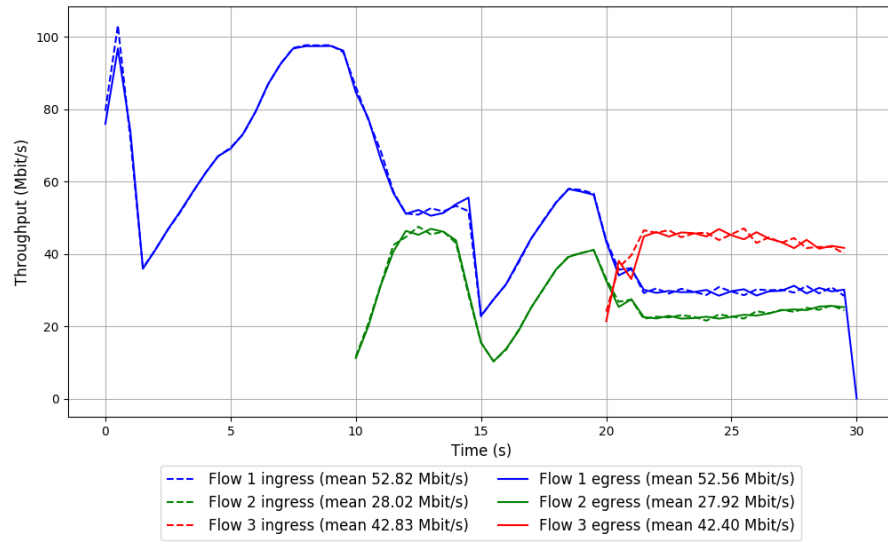


Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 13:42:01
End at: 2017-11-16 13:42:31
Local clock offset: 0.285 ms
Remote clock offset: -17.518 ms

Below is generated by plot.py at 2017-11-16 14:59:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 32.578 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 52.56 Mbit/s
95th percentile per-packet one-way delay: 30.726 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 32.648 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 42.40 Mbit/s
95th percentile per-packet one-way delay: 34.095 ms
Loss rate: 0.81%

Run 8: Report of TCP Cubic — Data Link

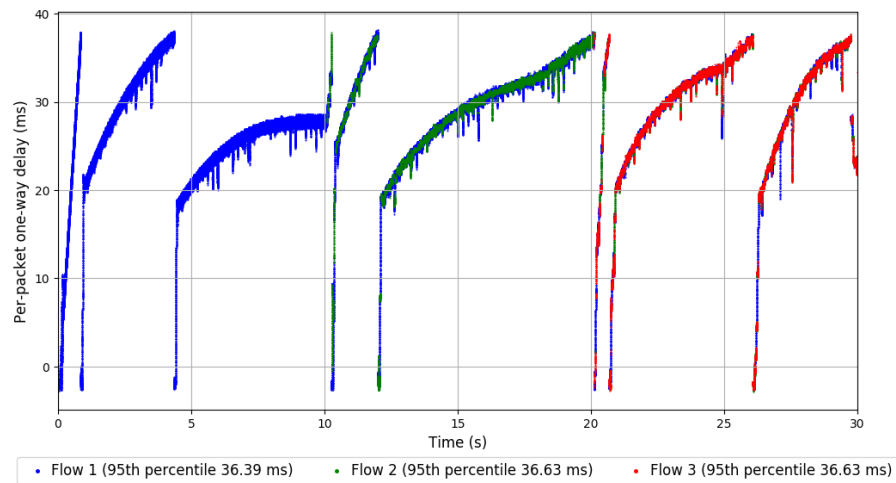
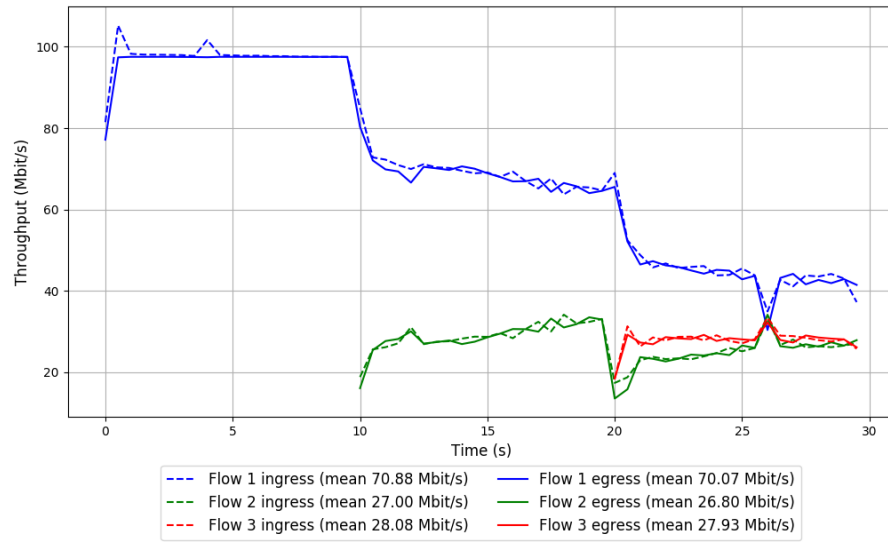


Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 14:02:55
End at: 2017-11-16 14:03:25
Local clock offset: -1.675 ms
Remote clock offset: -16.194 ms

Below is generated by plot.py at 2017-11-16 14:59:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 36.438 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 70.07 Mbit/s
95th percentile per-packet one-way delay: 36.394 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 36.632 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 27.93 Mbit/s
95th percentile per-packet one-way delay: 36.633 ms
Loss rate: 0.57%

Run 9: Report of TCP Cubic — Data Link

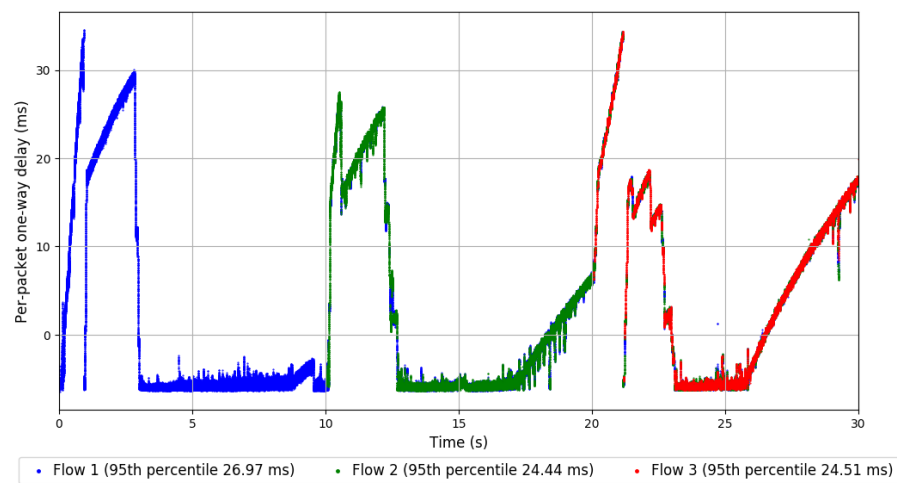
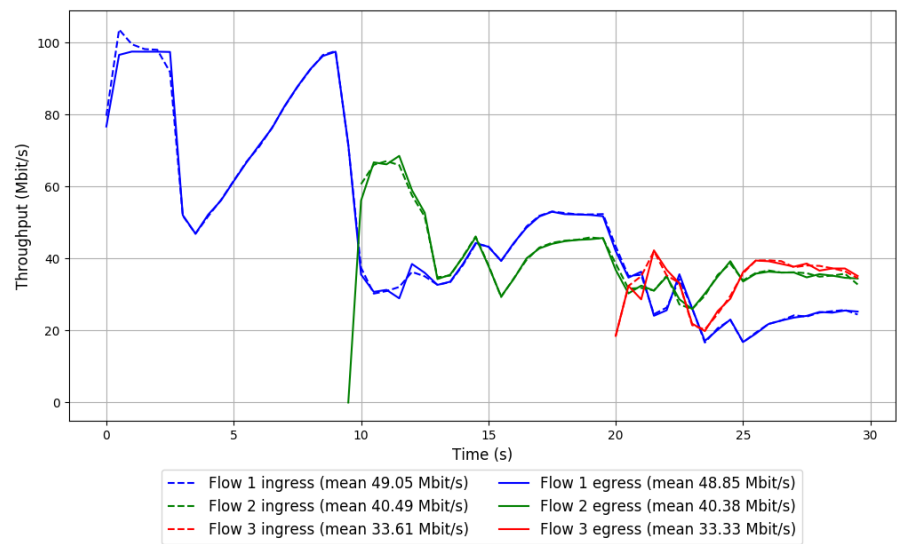


Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 14:25:16
End at: 2017-11-16 14:25:46
Local clock offset: -0.097 ms
Remote clock offset: -16.655 ms

Below is generated by plot.py at 2017-11-16 14:59:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.83 Mbit/s
95th percentile per-packet one-way delay: 25.950 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 48.85 Mbit/s
95th percentile per-packet one-way delay: 26.974 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 24.437 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 24.511 ms
Loss rate: 0.71%

Run 10: Report of TCP Cubic — Data Link

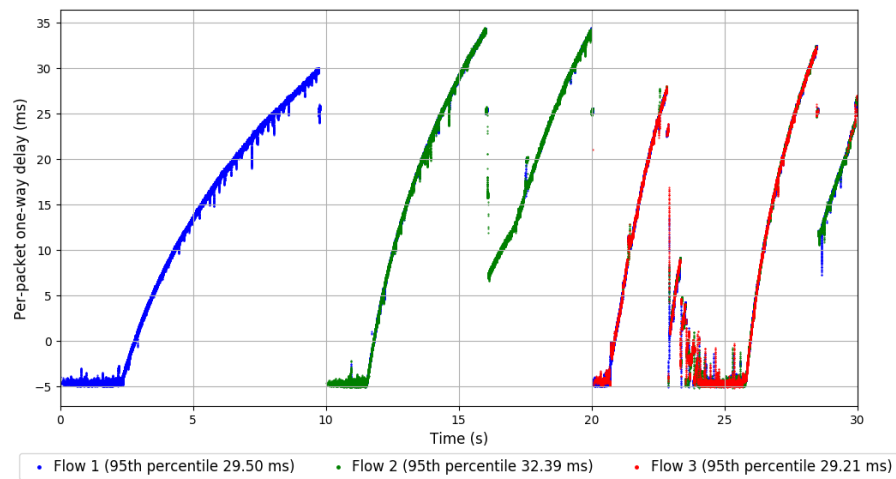
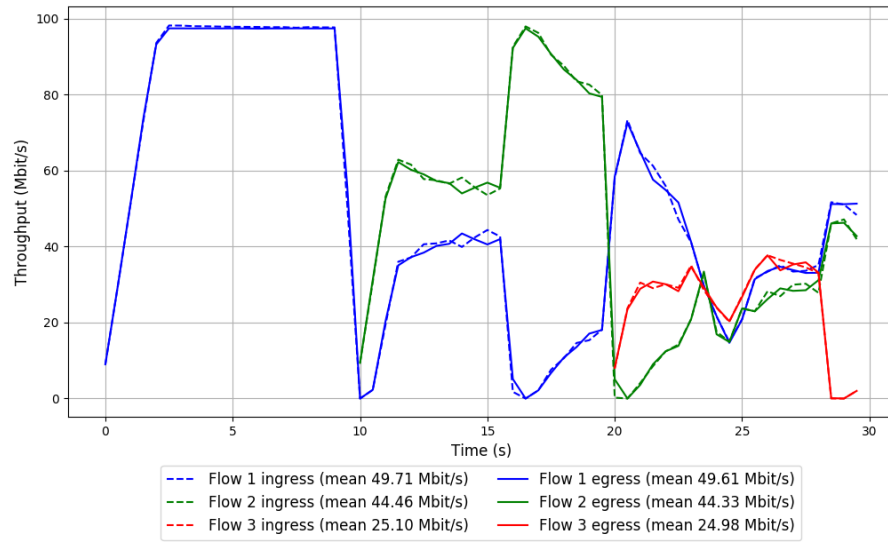


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 11:20:38
End at: 2017-11-16 11:21:08
Local clock offset: 1.551 ms
Remote clock offset: -16.413 ms

# Below is generated by plot.py at 2017-11-16 14:59:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.43 Mbit/s
95th percentile per-packet one-way delay: 30.971 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 29.496 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 32.390 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 24.98 Mbit/s
95th percentile per-packet one-way delay: 29.212 ms
Loss rate: 0.43%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-16 11:39:27

End at: 2017-11-16 11:39:57

Local clock offset: 2.011 ms

Remote clock offset: 2.521 ms

Below is generated by plot.py at 2017-11-16 14:59:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 48.382 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 47.619 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 28.72 Mbit/s

95th percentile per-packet one-way delay: 49.131 ms

Loss rate: 0.41%

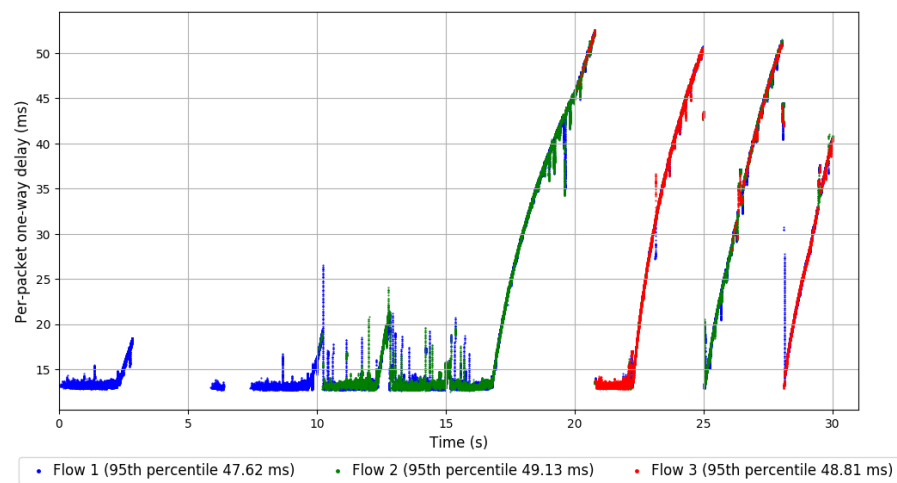
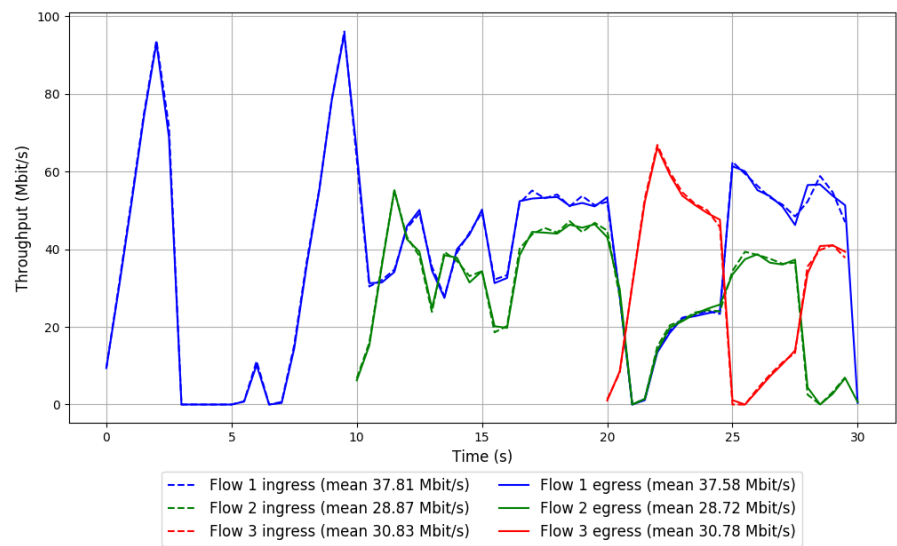
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 48.811 ms

Loss rate: 0.23%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 11:59:11

End at: 2017-11-16 11:59:41

Local clock offset: 2.594 ms

Remote clock offset: 0.583 ms

Below is generated by plot.py at 2017-11-16 14:59:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.17 Mbit/s

95th percentile per-packet one-way delay: 48.678 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 54.27 Mbit/s

95th percentile per-packet one-way delay: 47.503 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 49.490 ms

Loss rate: 0.48%

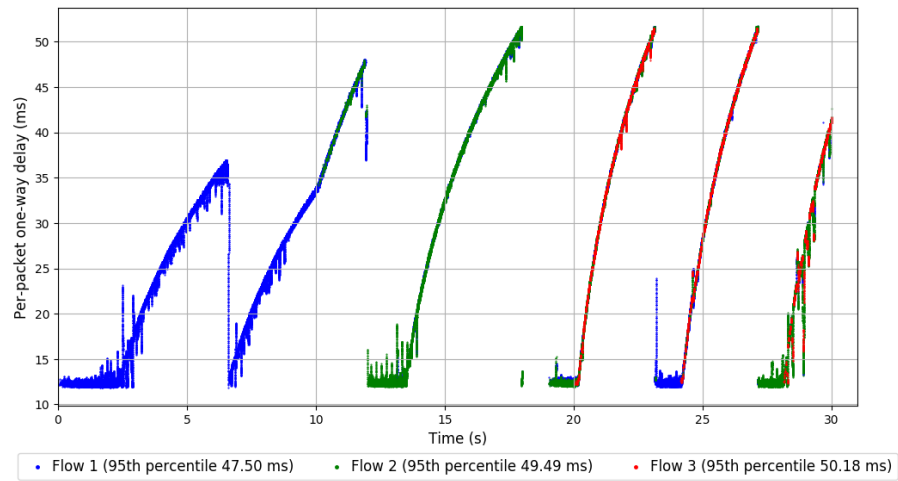
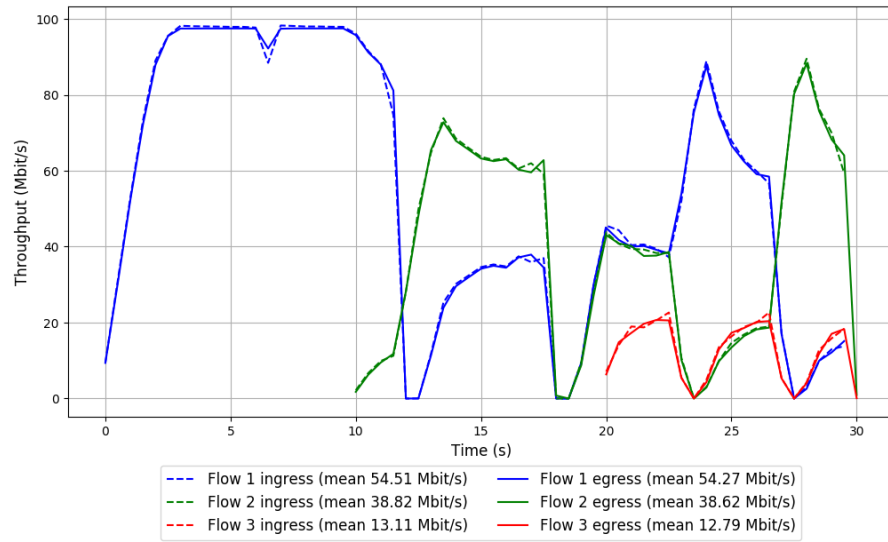
-- Flow 3:

Average throughput: 12.79 Mbit/s

95th percentile per-packet one-way delay: 50.177 ms

Loss rate: 2.10%

Run 3: Report of LEDBAT — Data Link

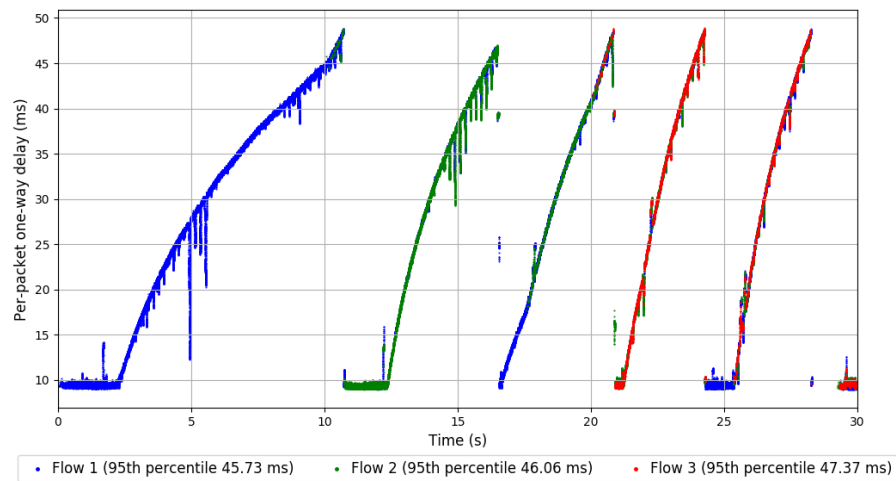
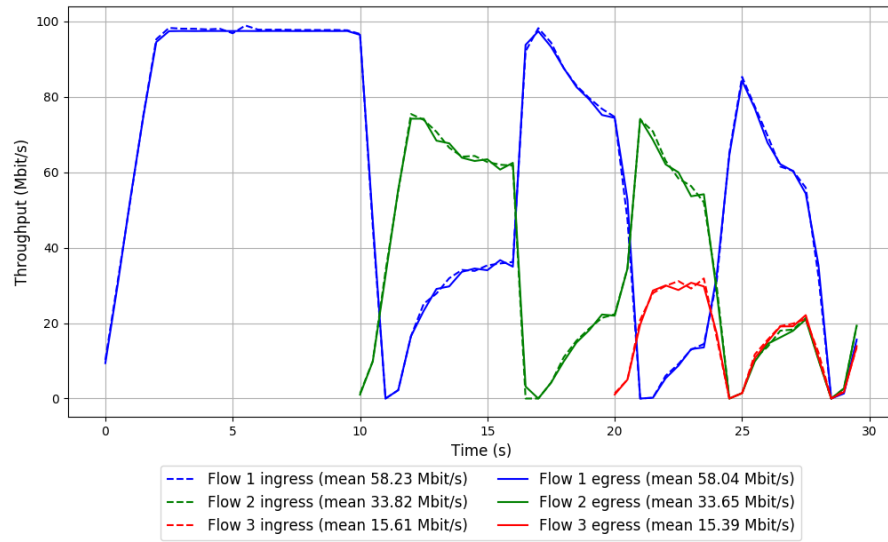


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 12:19:34
End at: 2017-11-16 12:20:04
Local clock offset: 5.197 ms
Remote clock offset: -0.744 ms

Below is generated by plot.py at 2017-11-16 14:59:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 45.942 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 58.04 Mbit/s
95th percentile per-packet one-way delay: 45.726 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 46.056 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 47.366 ms
Loss rate: 1.70%

Run 4: Report of LEDBAT — Data Link

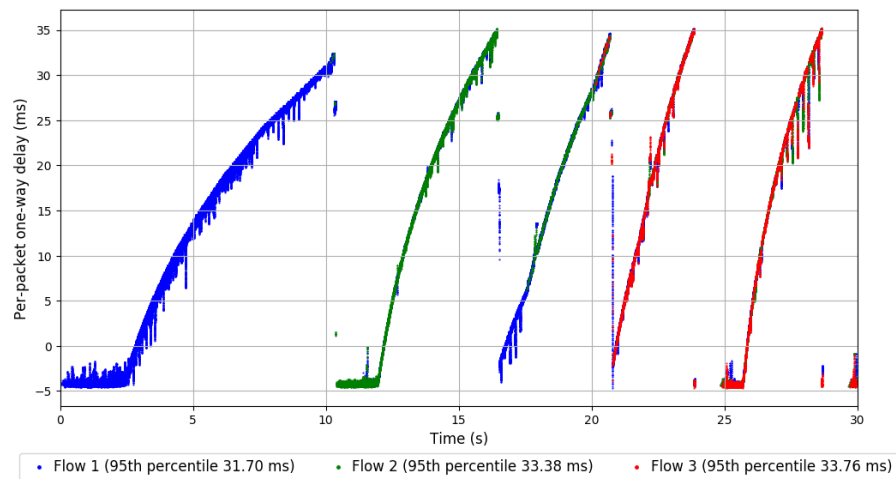
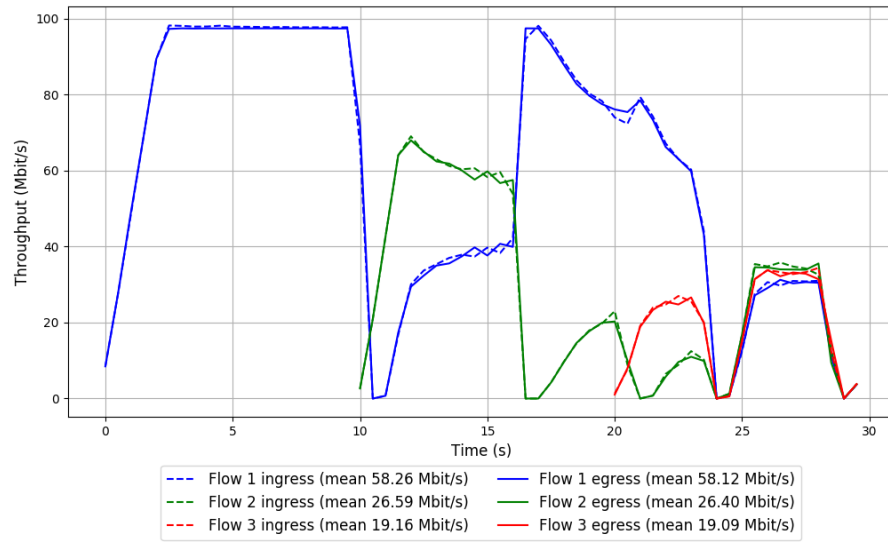


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 12:40:19
End at: 2017-11-16 12:40:49
Local clock offset: 2.803 ms
Remote clock offset: -16.212 ms

Below is generated by plot.py at 2017-11-16 15:00:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 32.417 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 33.380 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 33.762 ms
Loss rate: 0.72%

Run 5: Report of LEDBAT — Data Link

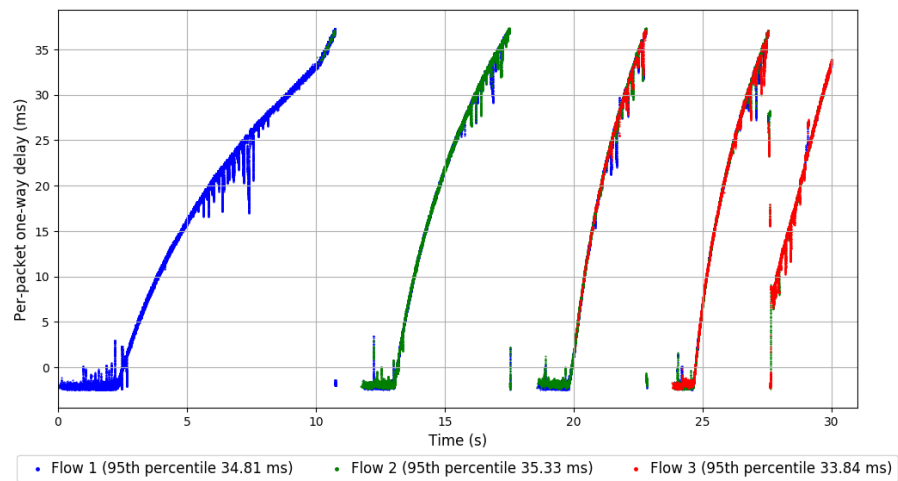
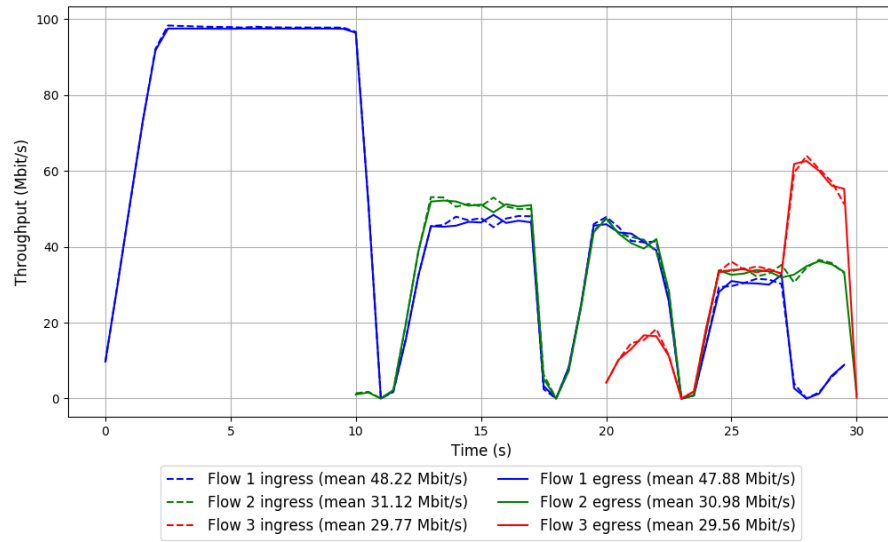


Run 6: Statistics of LEDBAT

Start at: 2017-11-16 13:00:22
End at: 2017-11-16 13:00:52
Local clock offset: -0.605 ms
Remote clock offset: -17.004 ms

Below is generated by plot.py at 2017-11-16 15:00:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 34.855 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 34.815 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 35.326 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 33.837 ms
Loss rate: 0.40%

Run 6: Report of LEDBAT — Data Link

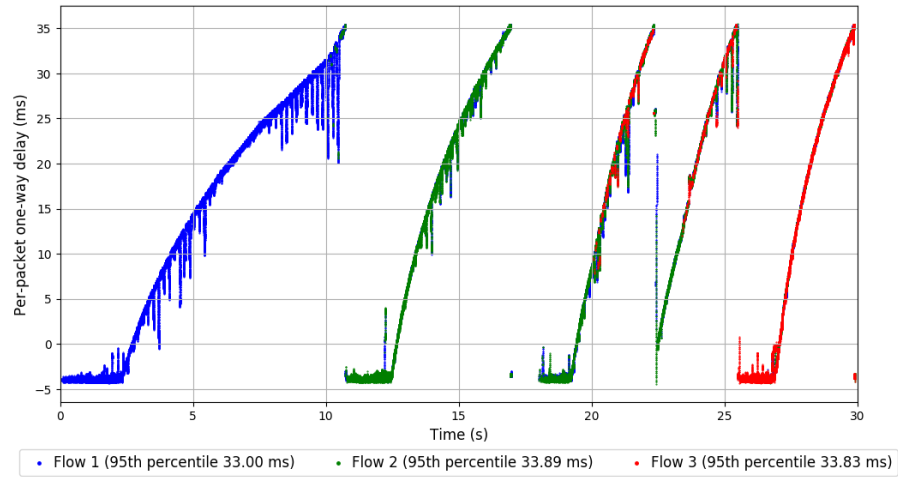
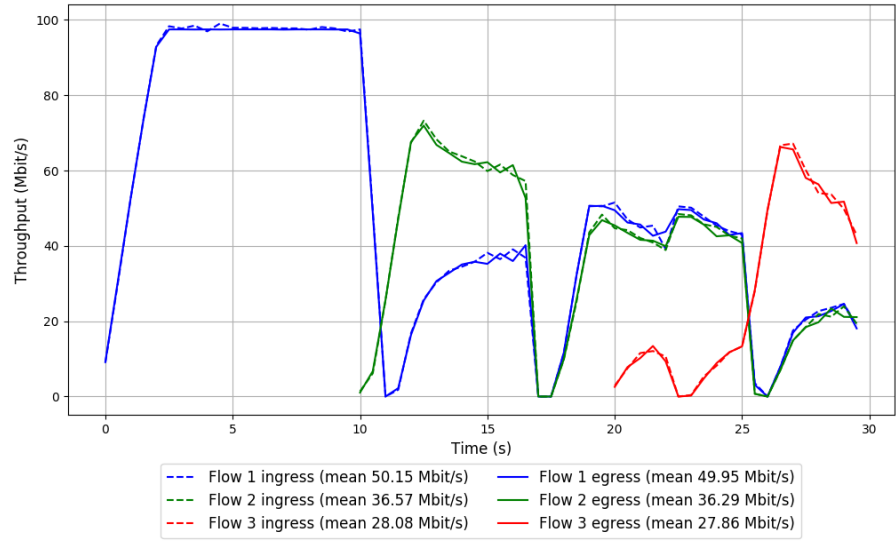


Run 7: Statistics of LEDBAT

Start at: 2017-11-16 13:21:09
End at: 2017-11-16 13:21:39
Local clock offset: 1.144 ms
Remote clock offset: -17.469 ms

Below is generated by plot.py at 2017-11-16 15:00:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 33.433 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 33.000 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 33.892 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 33.831 ms
Loss rate: 0.90%

Run 7: Report of LEDBAT — Data Link

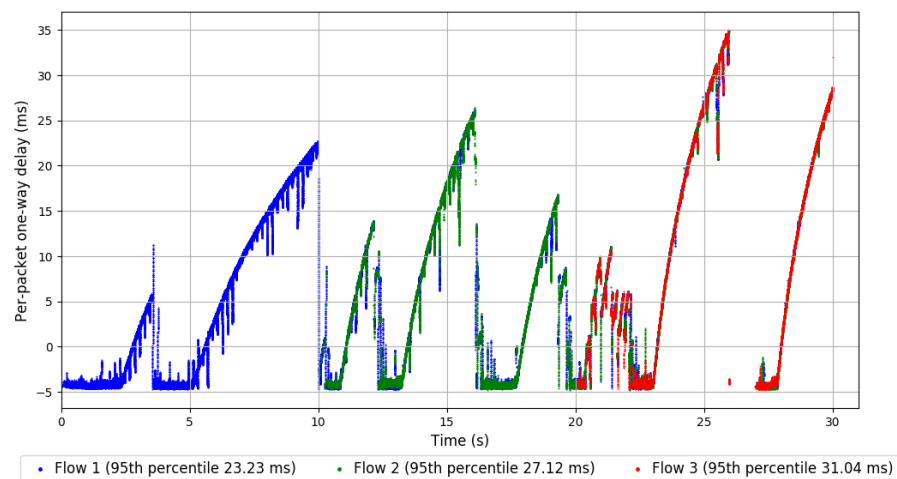
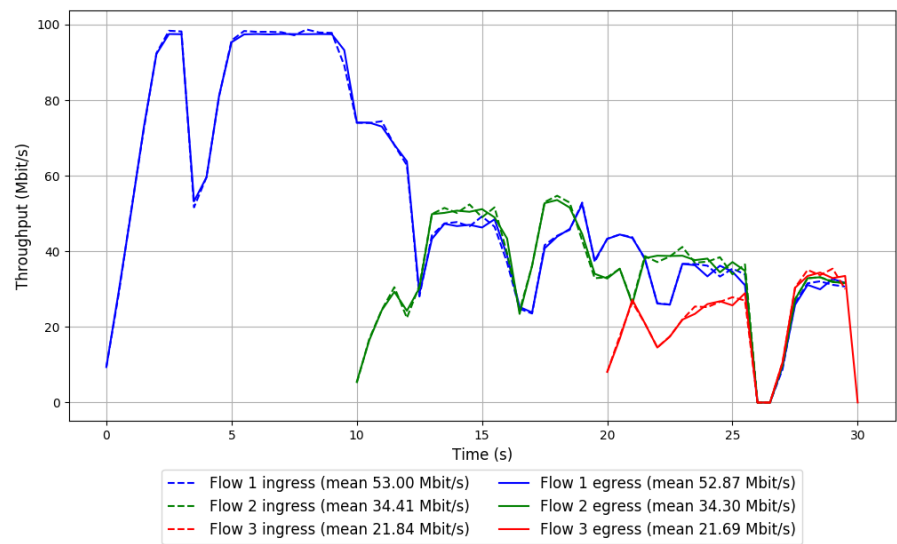


Run 8: Statistics of LEDBAT

Start at: 2017-11-16 13:43:34
End at: 2017-11-16 13:44:04
Local clock offset: 1.255 ms
Remote clock offset: -16.996 ms

Below is generated by plot.py at 2017-11-16 15:00:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.90 Mbit/s
95th percentile per-packet one-way delay: 25.870 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 52.87 Mbit/s
95th percentile per-packet one-way delay: 23.229 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 27.125 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 31.039 ms
Loss rate: 0.32%

Run 8: Report of LEDBAT — Data Link

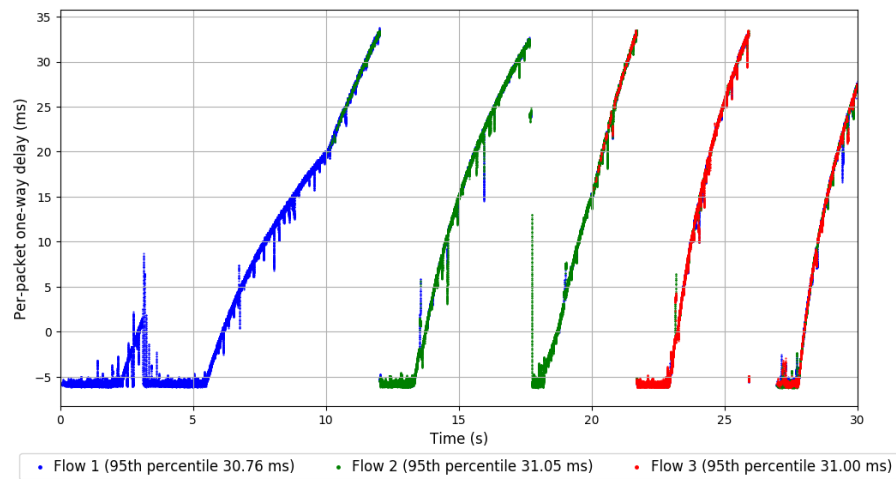
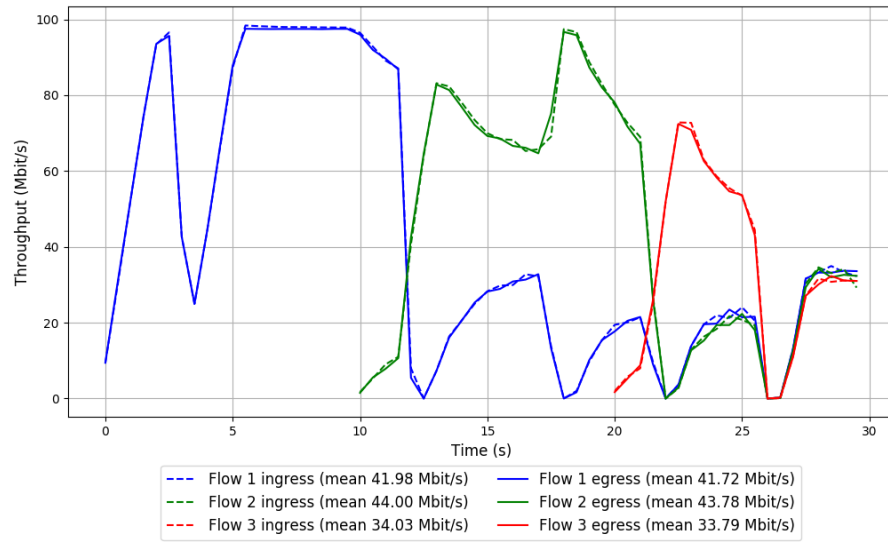


Run 9: Statistics of LEDBAT

Start at: 2017-11-16 14:04:35
End at: 2017-11-16 14:05:05
Local clock offset: -0.768 ms
Remote clock offset: -18.455 ms

Below is generated by plot.py at 2017-11-16 15:00:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.00 Mbit/s
95th percentile per-packet one-way delay: 30.855 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 30.760 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 31.048 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 31.003 ms
Loss rate: 0.59%

Run 9: Report of LEDBAT — Data Link

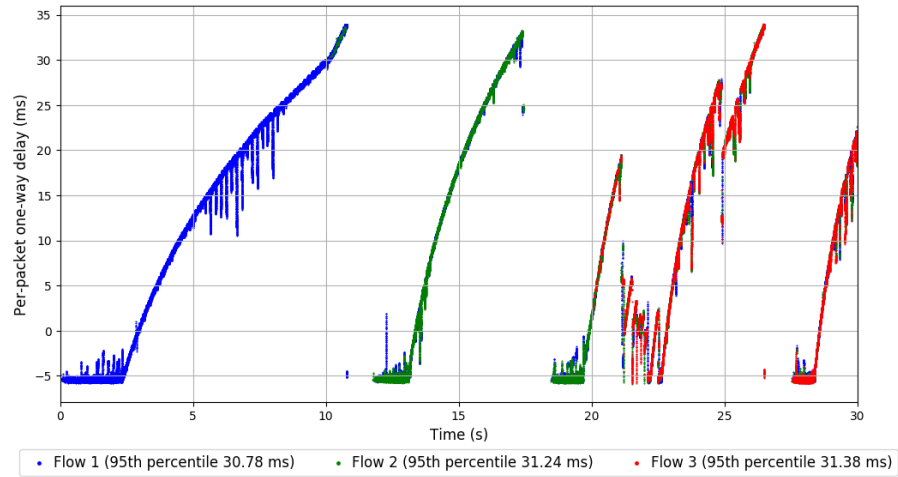
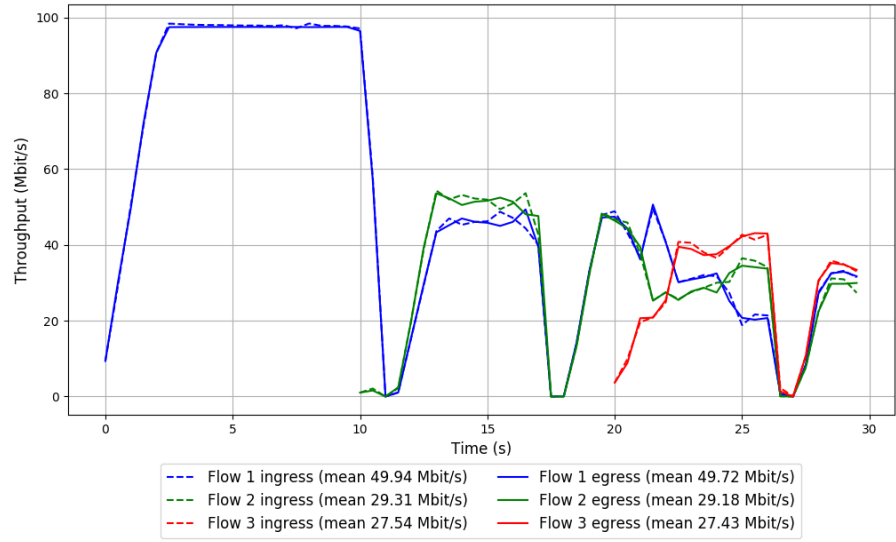


Run 10: Statistics of LEDBAT

Start at: 2017-11-16 14:26:39
End at: 2017-11-16 14:27:09
Local clock offset: -0.308 ms
Remote clock offset: -16.272 ms

Below is generated by plot.py at 2017-11-16 15:00:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.20 Mbit/s
95th percentile per-packet one-way delay: 31.004 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 49.72 Mbit/s
95th percentile per-packet one-way delay: 30.779 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 31.243 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 31.383 ms
Loss rate: 0.24%

Run 10: Report of LEDBAT — Data Link

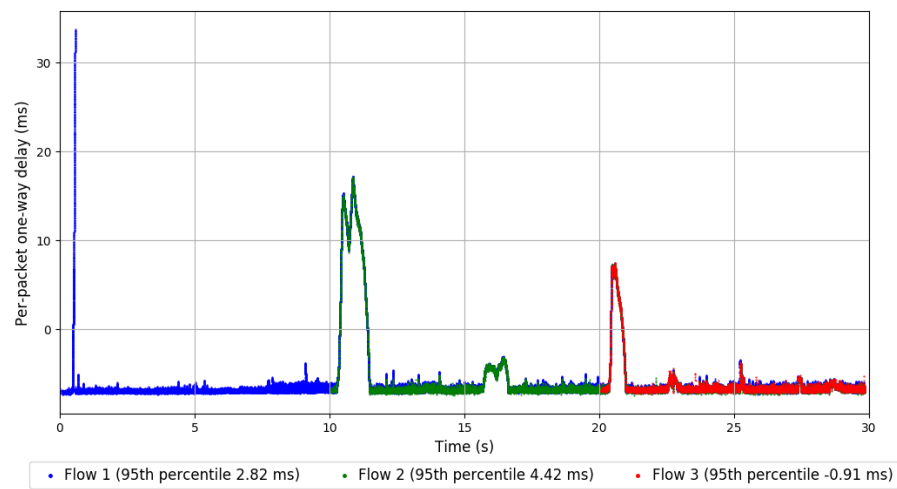
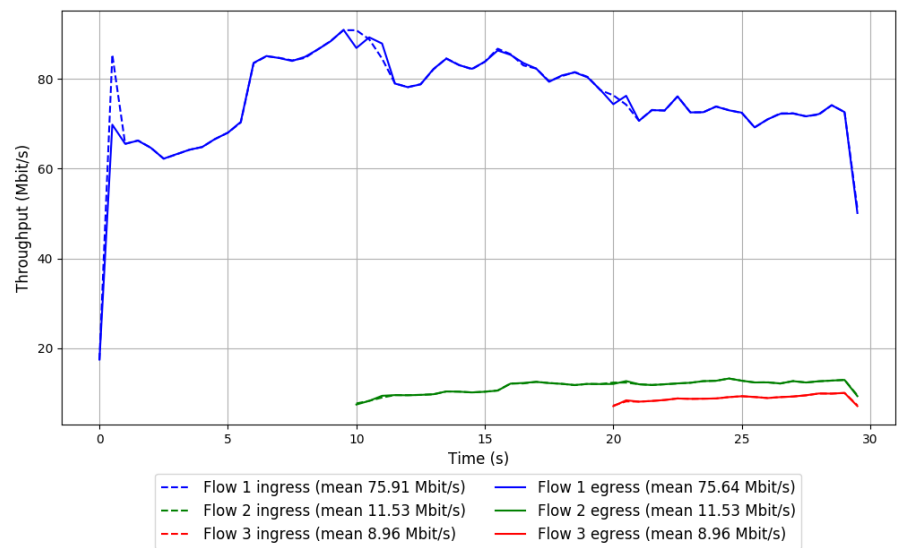


```
Run 1: Statistics of PCC

Start at: 2017-11-16 11:10:11
End at: 2017-11-16 11:10:41
Local clock offset: 2.543 ms
Remote clock offset: -17.903 ms

# Below is generated by plot.py at 2017-11-16 15:01:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 2.858 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 2.822 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 4.416 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: -0.912 ms
Loss rate: 0.01%
```

Run 1: Report of PCC — Data Link

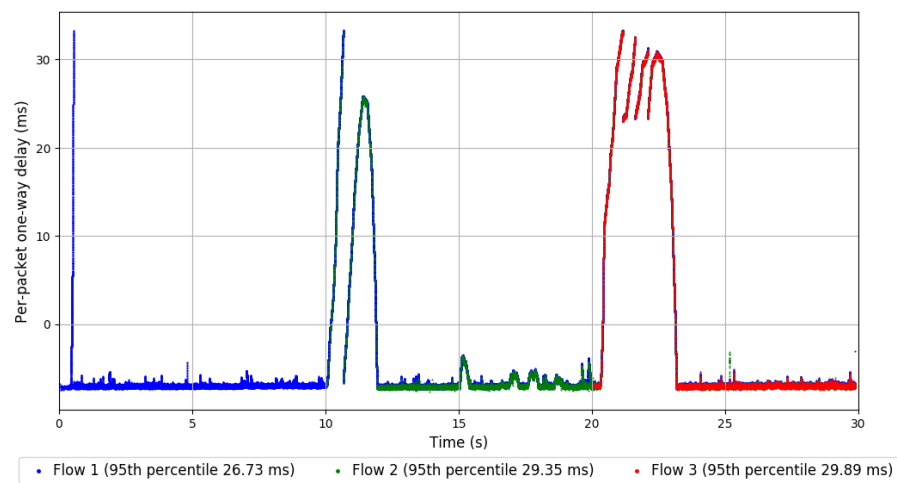
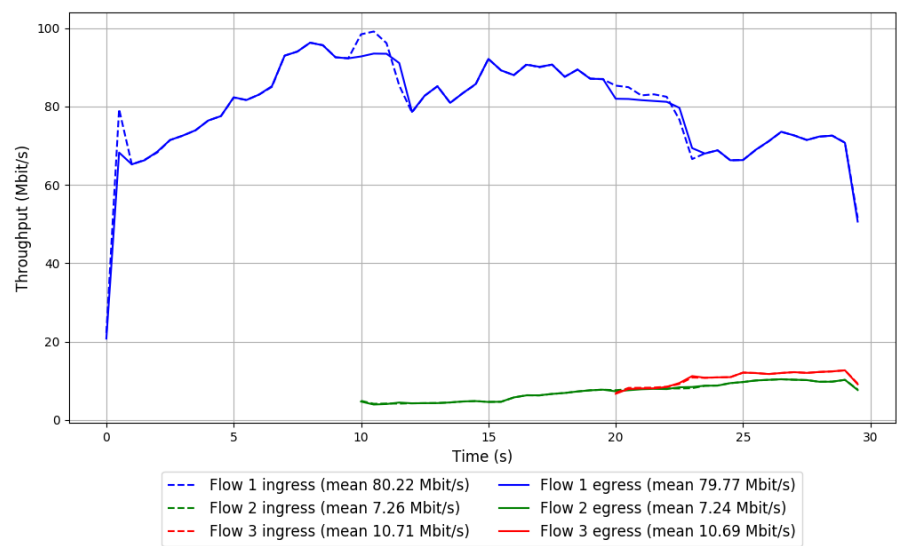


Run 2: Statistics of PCC

Start at: 2017-11-16 11:28:42
End at: 2017-11-16 11:29:12
Local clock offset: 3.632 ms
Remote clock offset: -16.244 ms

Below is generated by plot.py at 2017-11-16 15:01:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 27.420 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 79.77 Mbit/s
95th percentile per-packet one-way delay: 26.727 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 29.354 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 29.895 ms
Loss rate: 0.20%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 11:48:03

End at: 2017-11-16 11:48:33

Local clock offset: 3.877 ms

Remote clock offset: 1.995 ms

Below is generated by plot.py at 2017-11-16 15:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.36 Mbit/s

95th percentile per-packet one-way delay: 16.837 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 76.39 Mbit/s

95th percentile per-packet one-way delay: 16.820 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 17.306 ms

Loss rate: 0.00%

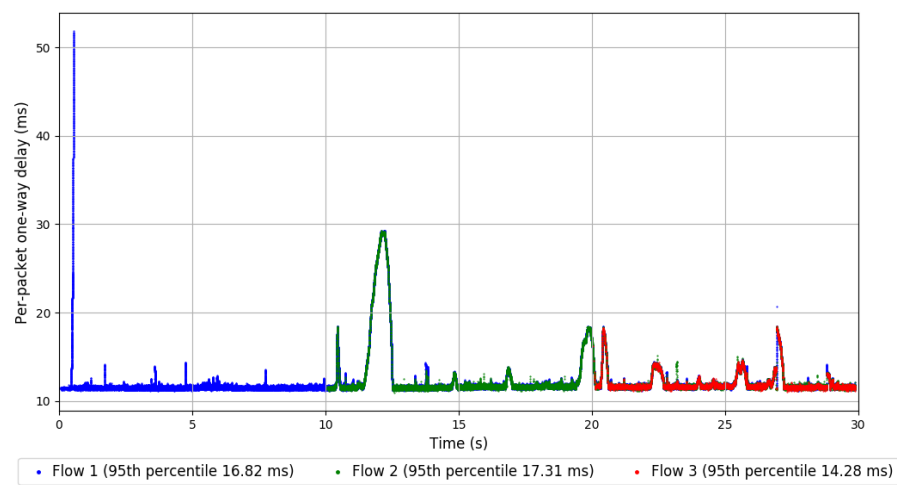
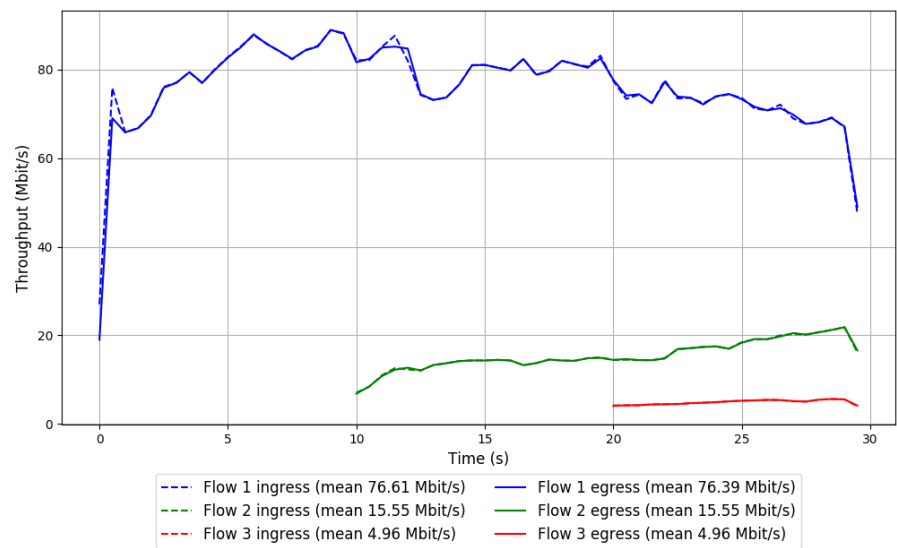
-- Flow 3:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 14.276 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 12:07:59

End at: 2017-11-16 12:08:29

Local clock offset: 5.335 ms

Remote clock offset: 1.623 ms

Below is generated by plot.py at 2017-11-16 15:02:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.01 Mbit/s

95th percentile per-packet one-way delay: 30.380 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 28.114 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 39.915 ms

Loss rate: 0.20%

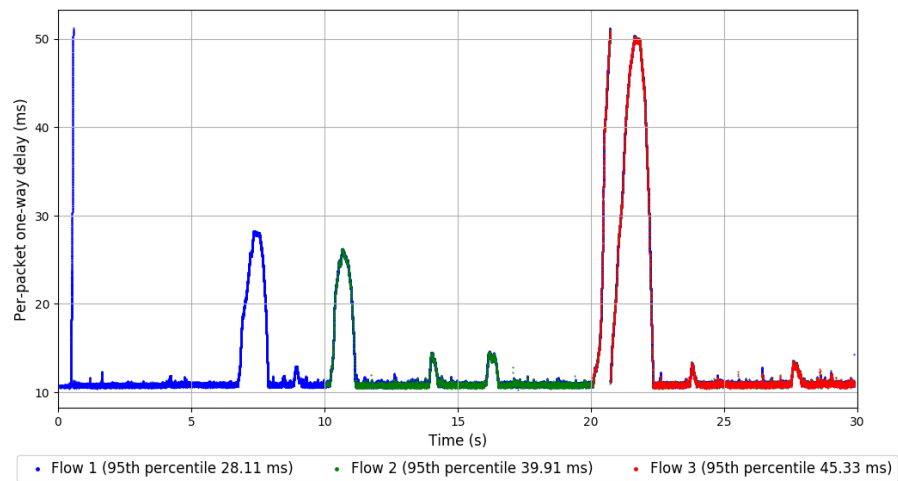
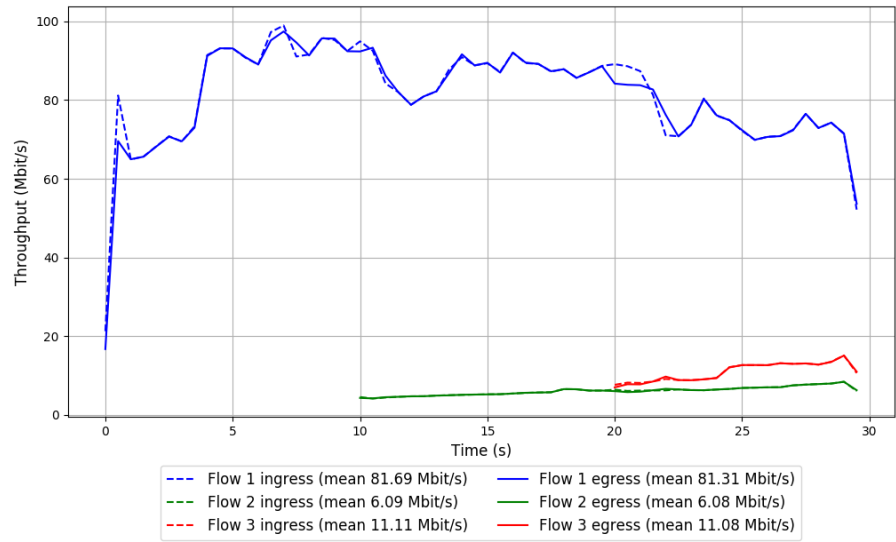
-- Flow 3:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 45.327 ms

Loss rate: 0.30%

Run 4: Report of PCC — Data Link

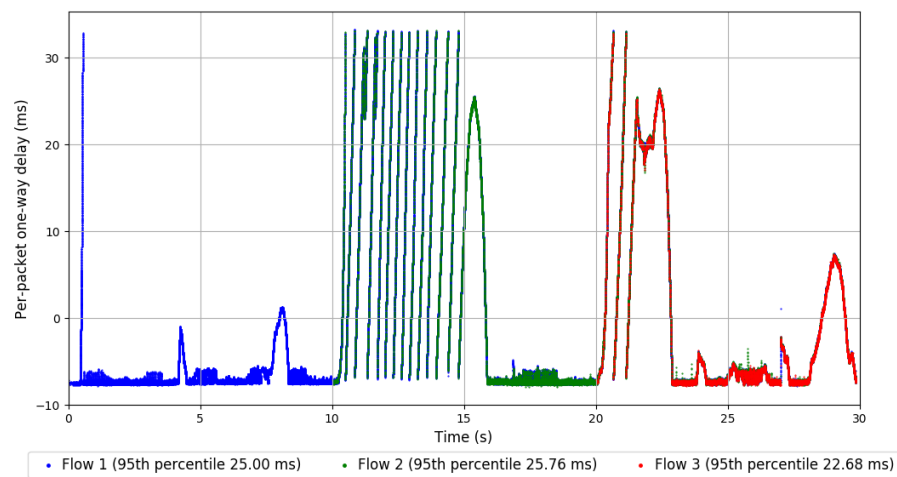
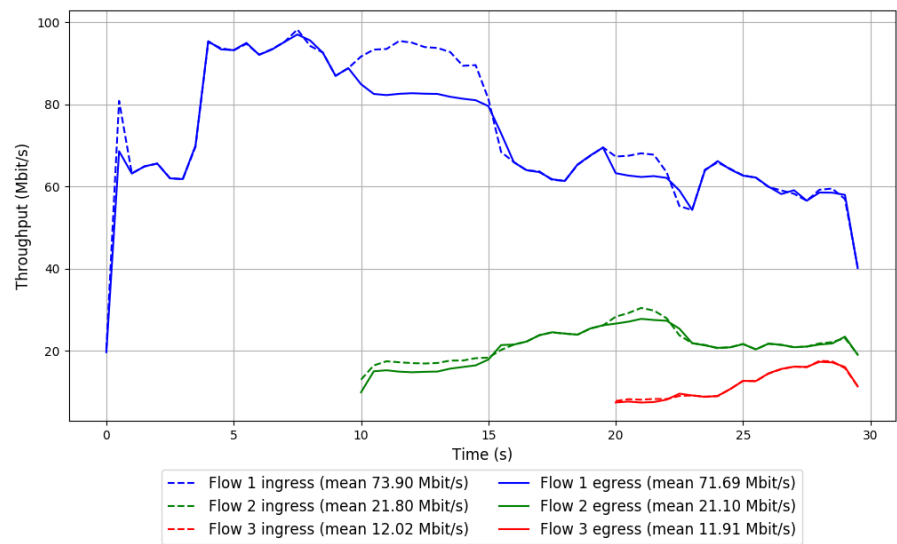


Run 5: Statistics of PCC

Start at: 2017-11-16 12:28:21
End at: 2017-11-16 12:28:51
Local clock offset: 4.789 ms
Remote clock offset: -17.603 ms

Below is generated by plot.py at 2017-11-16 15:02:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 25.060 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 25.003 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 25.761 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 22.678 ms
Loss rate: 0.90%

Run 5: Report of PCC — Data Link

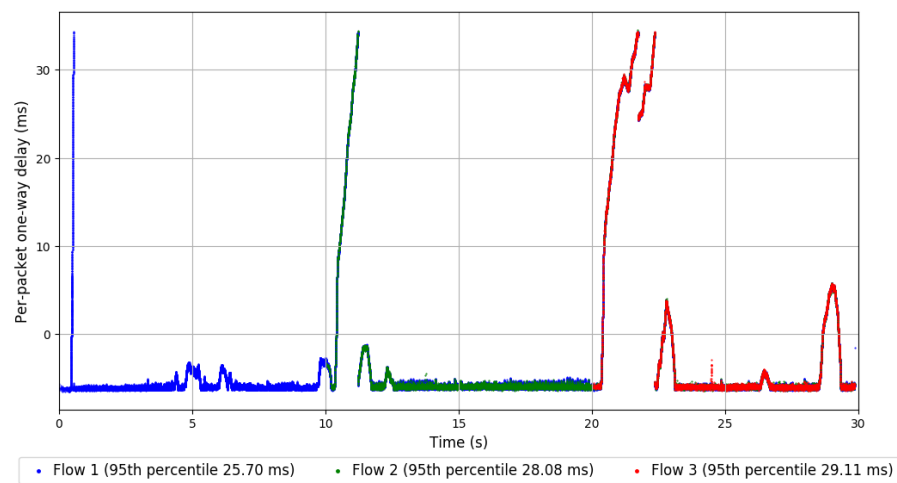
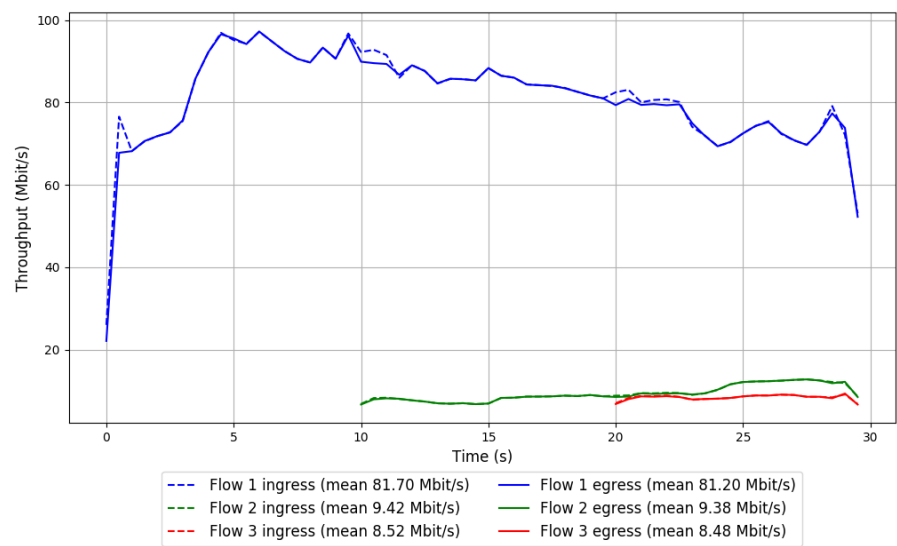


Run 6: Statistics of PCC

Start at: 2017-11-16 12:49:08
End at: 2017-11-16 12:49:38
Local clock offset: 2.771 ms
Remote clock offset: -17.703 ms

Below is generated by plot.py at 2017-11-16 15:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 26.907 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 25.696 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 28.078 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 29.110 ms
Loss rate: 0.52%

Run 6: Report of PCC — Data Link

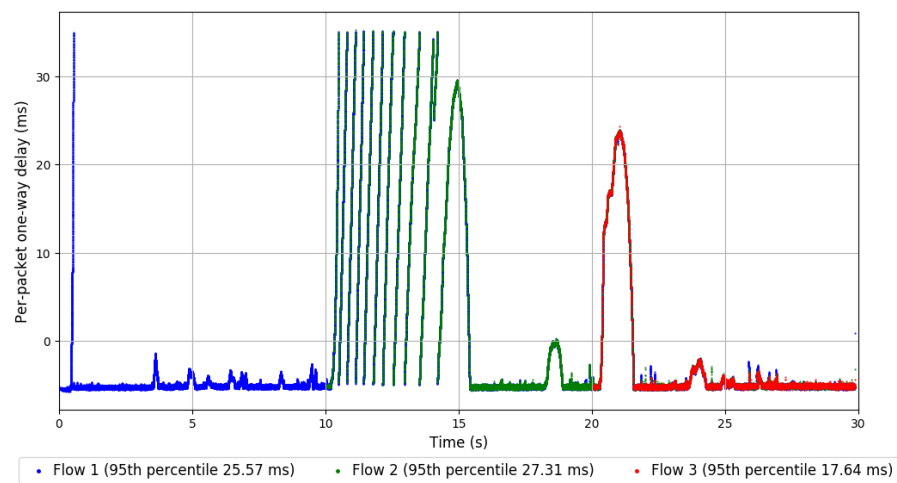
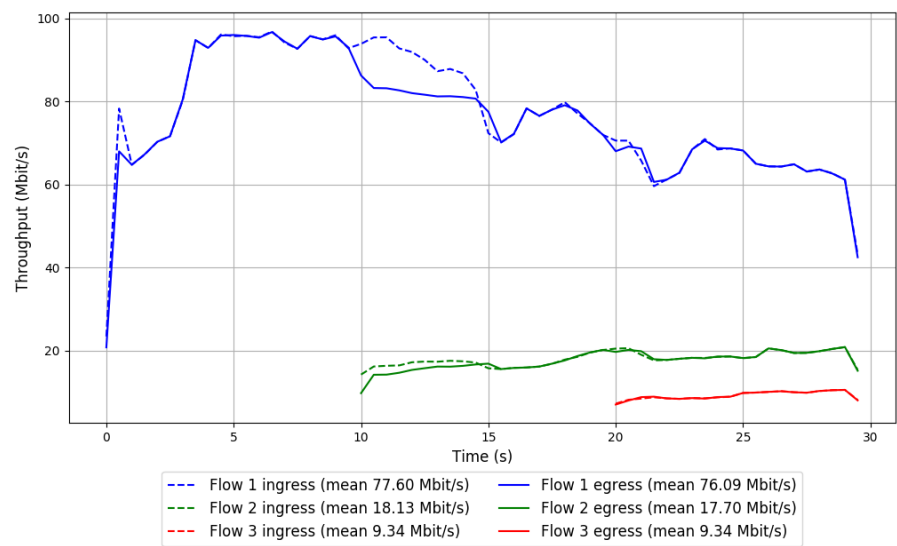


Run 7: Statistics of PCC

Start at: 2017-11-16 13:09:01
End at: 2017-11-16 13:09:31
Local clock offset: 2.422 ms
Remote clock offset: -17.537 ms

Below is generated by plot.py at 2017-11-16 15:02:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 25.578 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 76.09 Mbit/s
95th percentile per-packet one-way delay: 25.575 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 27.314 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 17.635 ms
Loss rate: 0.00%

Run 7: Report of PCC — Data Link

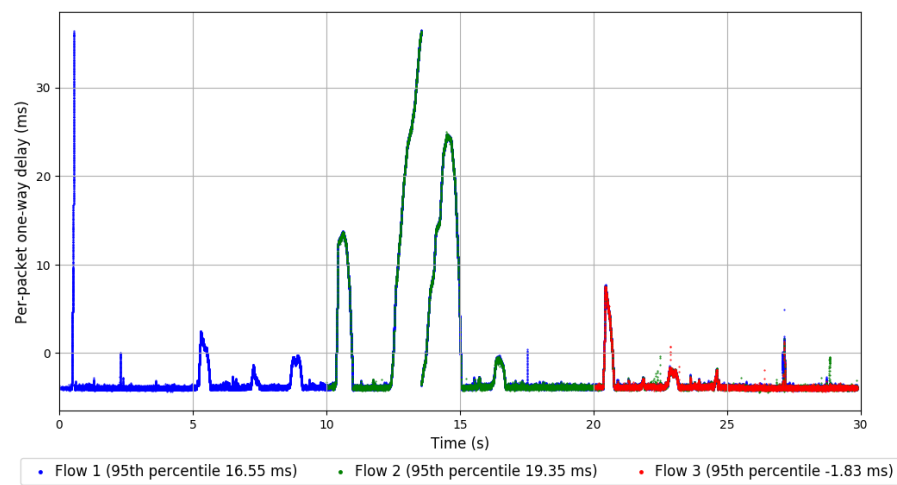
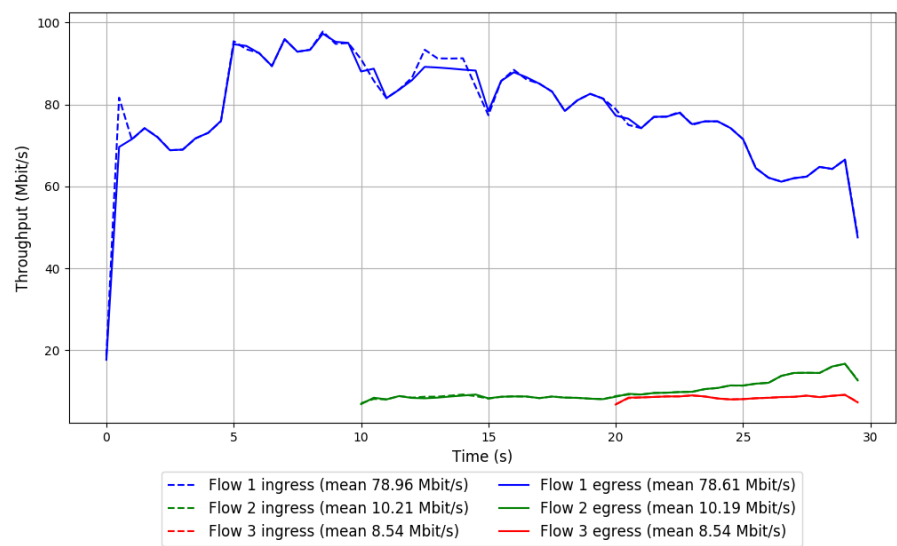


Run 8: Statistics of PCC

Start at: 2017-11-16 13:30:29
End at: 2017-11-16 13:30:59
Local clock offset: 0.887 ms
Remote clock offset: -17.499 ms

Below is generated by plot.py at 2017-11-16 15:02:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 15.911 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 16.547 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 19.348 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: -1.827 ms
Loss rate: 0.00%

Run 8: Report of PCC — Data Link

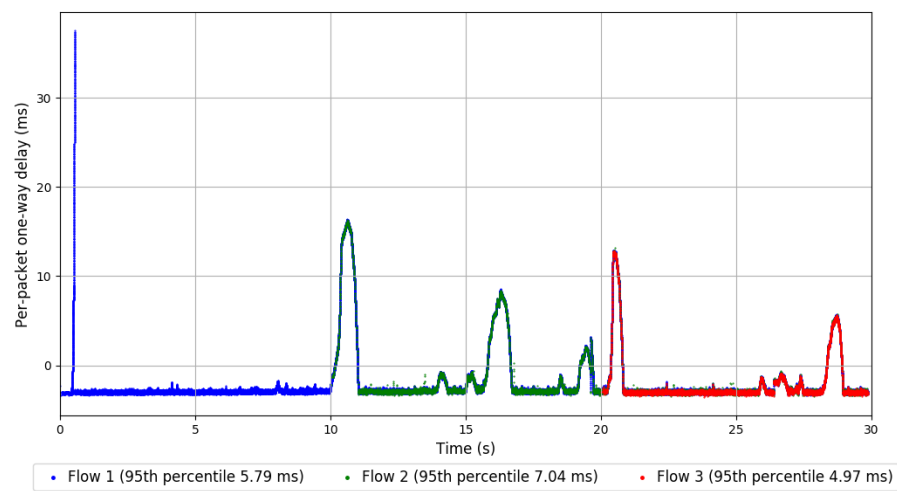
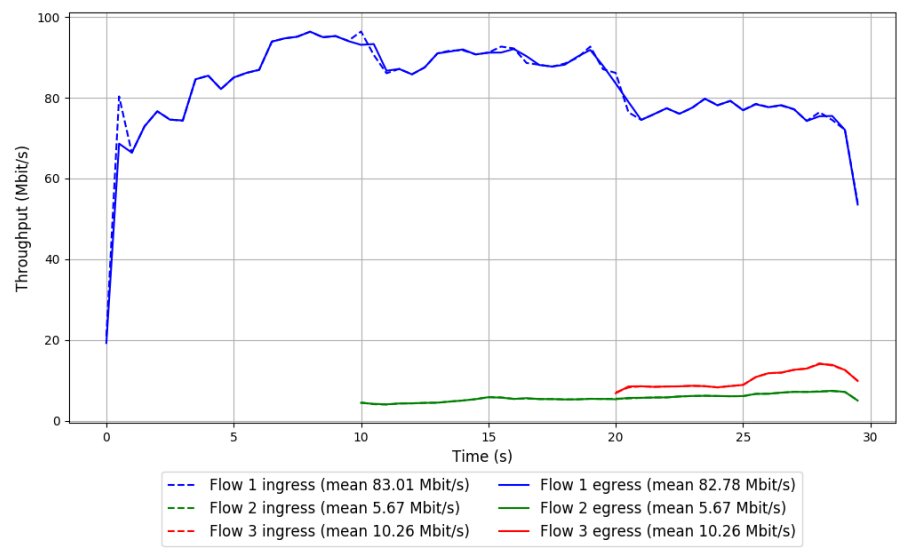


Run 9: Statistics of PCC

Start at: 2017-11-16 13:53:29
End at: 2017-11-16 13:53:59
Local clock offset: -1.172 ms
Remote clock offset: -16.95 ms

Below is generated by plot.py at 2017-11-16 15:02:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 5.770 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 82.78 Mbit/s
95th percentile per-packet one-way delay: 5.792 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 7.044 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.26 Mbit/s
95th percentile per-packet one-way delay: 4.973 ms
Loss rate: 0.00%

Run 9: Report of PCC — Data Link

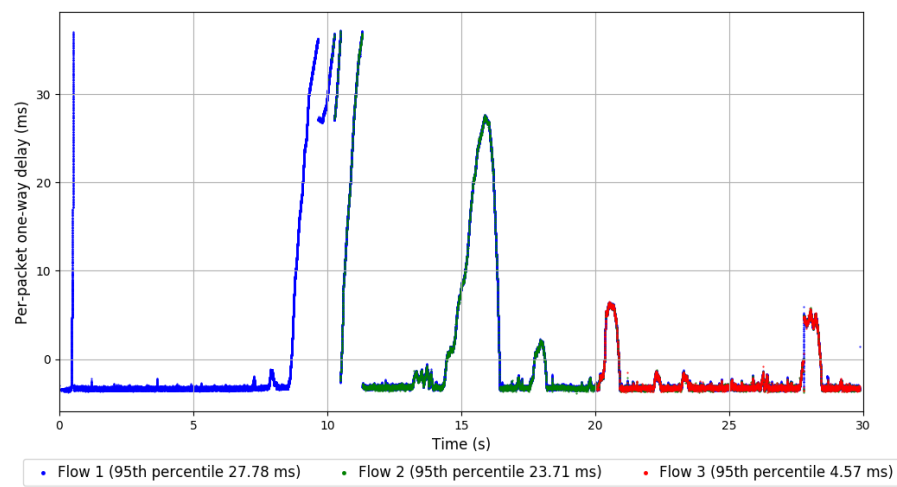
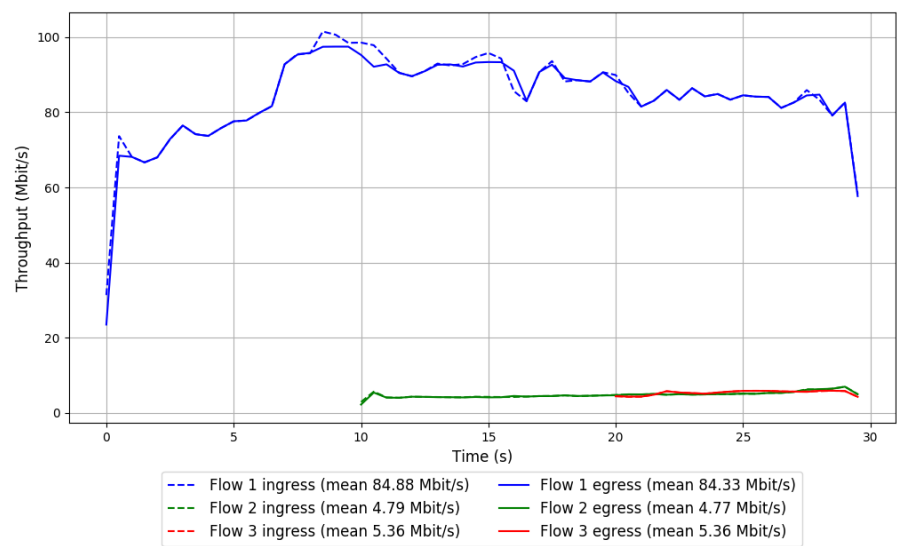


Run 10: Statistics of PCC

Start at: 2017-11-16 14:13:58
End at: 2017-11-16 14:14:28
Local clock offset: -2.549 ms
Remote clock offset: -17.018 ms

Below is generated by plot.py at 2017-11-16 15:02:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 27.418 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 27.779 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 23.714 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 4.566 ms
Loss rate: 0.00%

Run 10: Report of PCC — Data Link

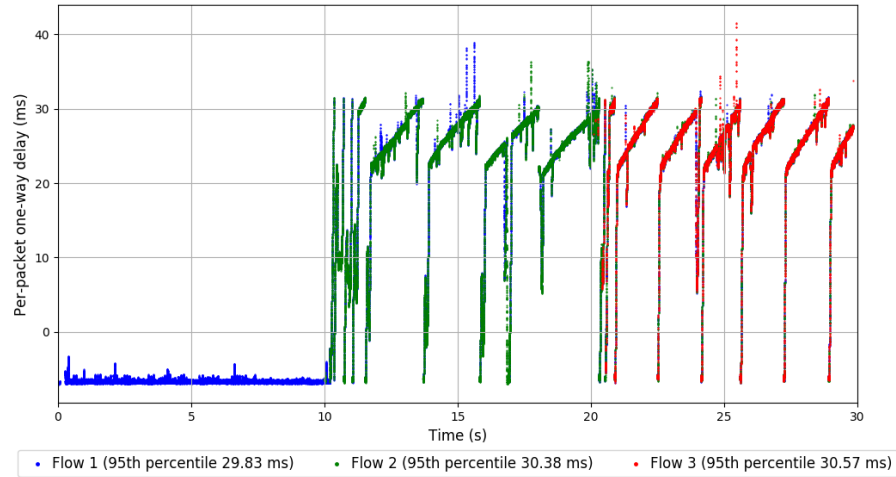
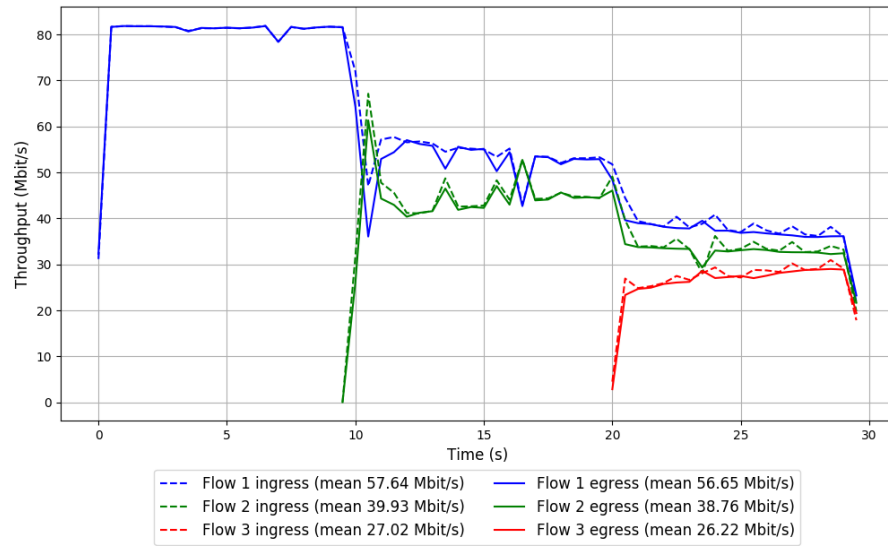


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 11:05:54
End at: 2017-11-16 11:06:24
Local clock offset: 1.549 ms
Remote clock offset: -18.823 ms

Below is generated by plot.py at 2017-11-16 15:03:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 30.111 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 56.65 Mbit/s
95th percentile per-packet one-way delay: 29.833 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 38.76 Mbit/s
95th percentile per-packet one-way delay: 30.381 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 30.572 ms
Loss rate: 2.87%

Run 1: Report of QUIC Cubic — Data Link

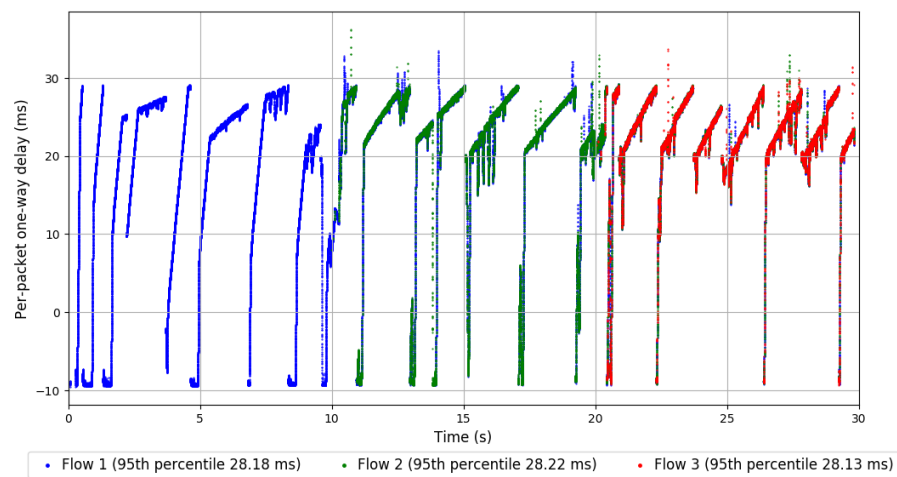
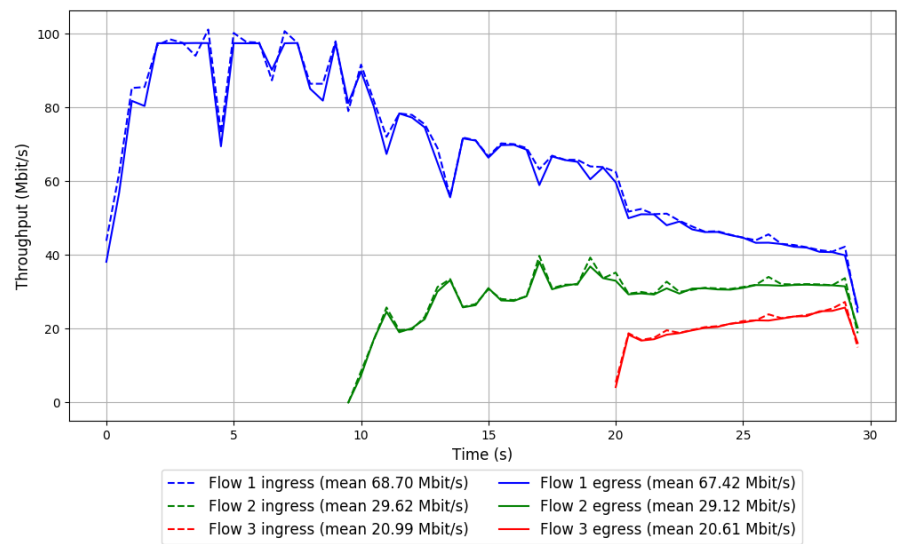


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 11:24:30
End at: 2017-11-16 11:25:00
Local clock offset: 2.871 ms
Remote clock offset: -19.123 ms

Below is generated by plot.py at 2017-11-16 15:03:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 28.184 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 67.42 Mbit/s
95th percentile per-packet one-way delay: 28.180 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 29.12 Mbit/s
95th percentile per-packet one-way delay: 28.216 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 28.126 ms
Loss rate: 1.76%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 11:43:19

End at: 2017-11-16 11:43:49

Local clock offset: 3.276 ms

Remote clock offset: 3.669 ms

Below is generated by plot.py at 2017-11-16 15:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 50.284 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 65.97 Mbit/s

95th percentile per-packet one-way delay: 50.043 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 34.08 Mbit/s

95th percentile per-packet one-way delay: 50.587 ms

Loss rate: 1.58%

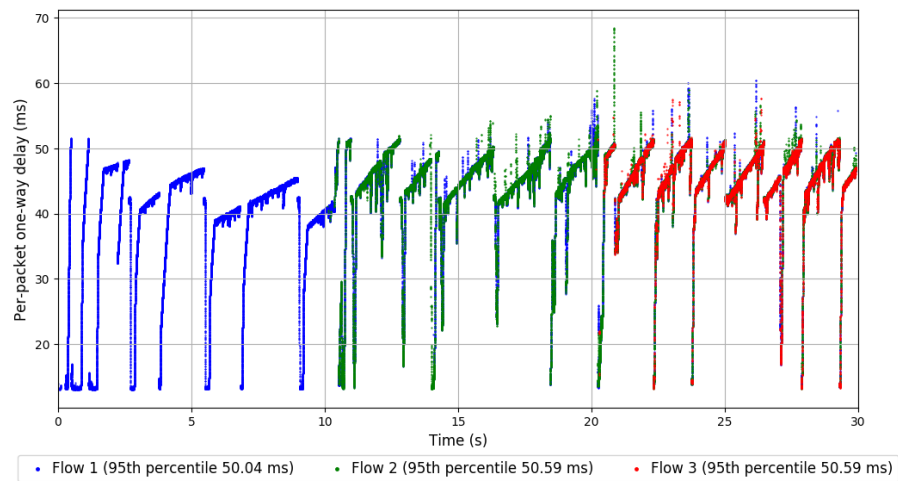
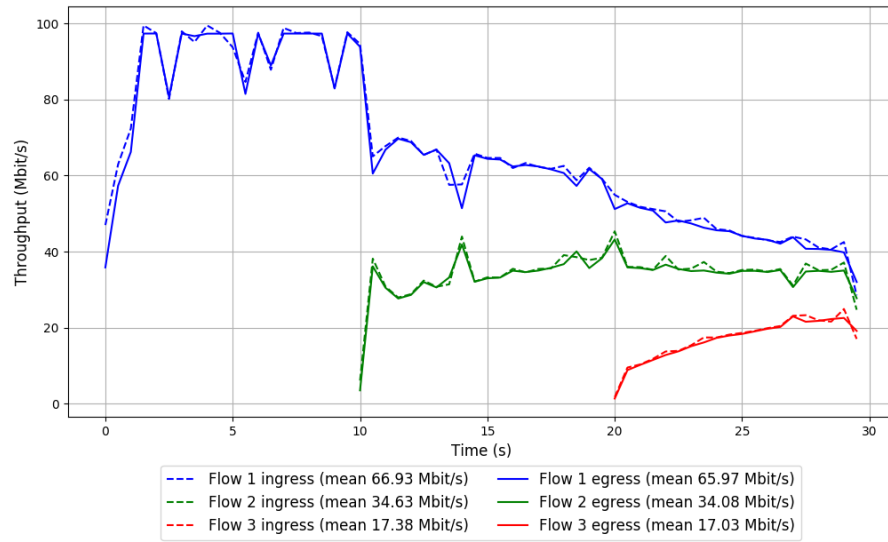
-- Flow 3:

Average throughput: 17.03 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 2.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 12:03:33

End at: 2017-11-16 12:04:03

Local clock offset: 3.883 ms

Remote clock offset: 1.656 ms

Below is generated by plot.py at 2017-11-16 15:03:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 49.081 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 49.205 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 48.763 ms

Loss rate: 1.52%

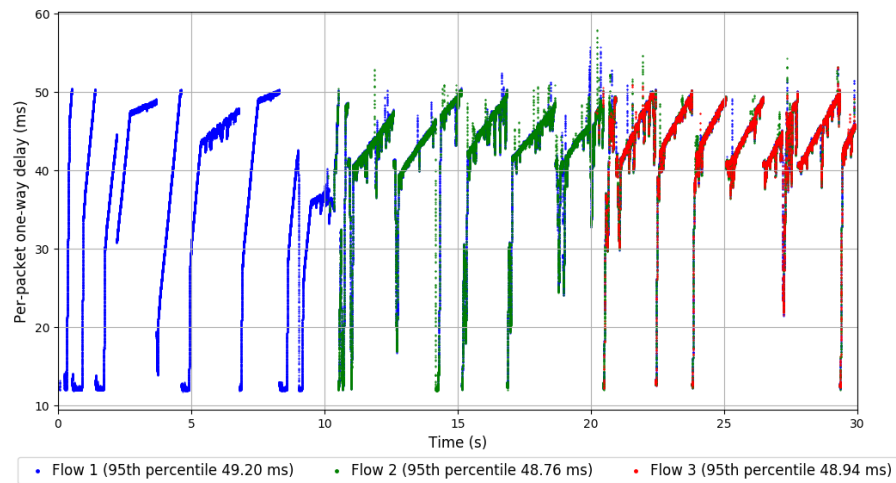
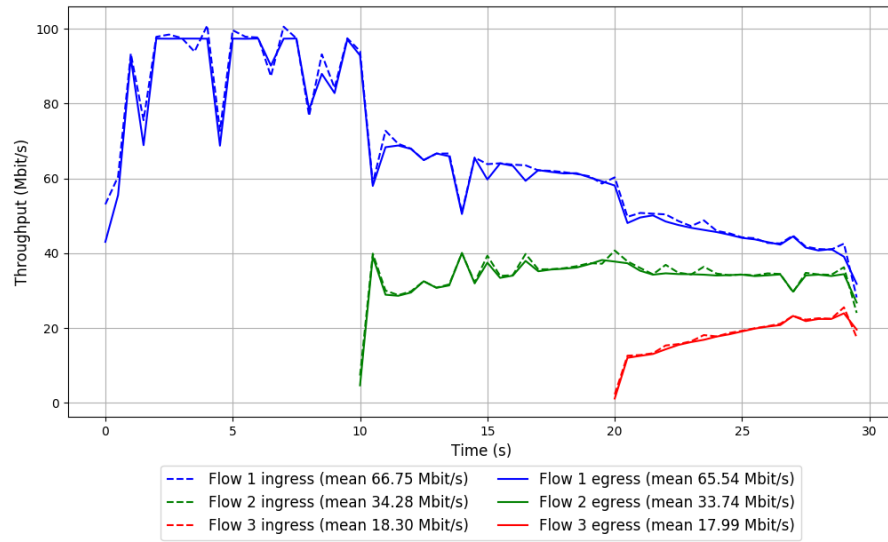
-- Flow 3:

Average throughput: 17.99 Mbit/s

95th percentile per-packet one-way delay: 48.938 ms

Loss rate: 1.72%

Run 4: Report of QUIC Cubic — Data Link

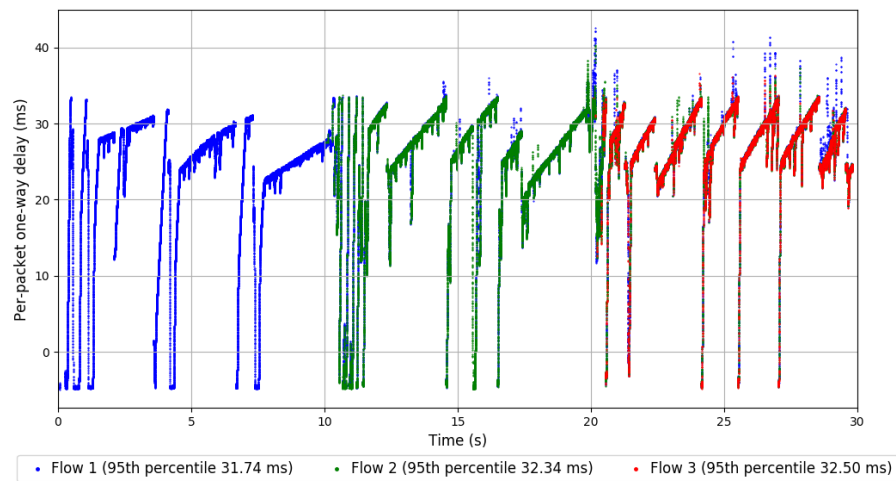
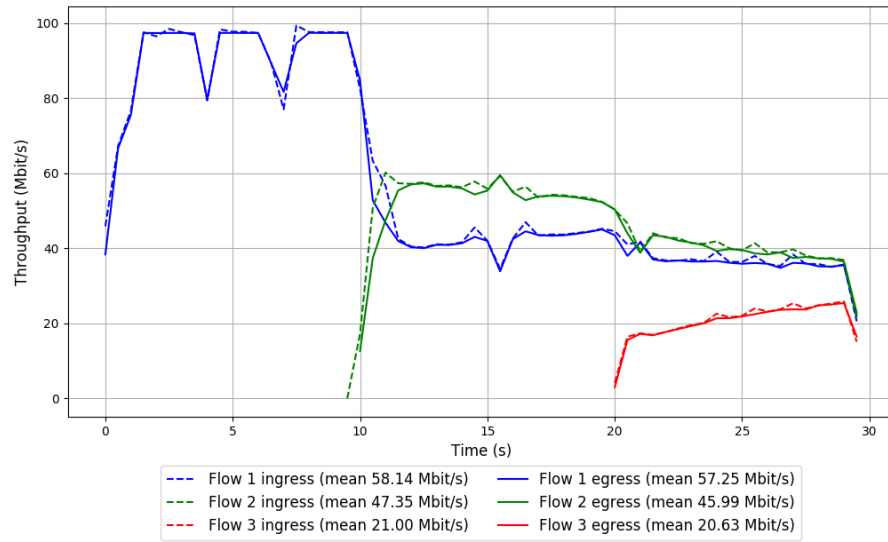


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 12:23:55
End at: 2017-11-16 12:24:25
Local clock offset: 3.682 ms
Remote clock offset: -15.942 ms

Below is generated by plot.py at 2017-11-16 15:03:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.52 Mbit/s
95th percentile per-packet one-way delay: 32.088 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 31.742 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 32.345 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 32.500 ms
Loss rate: 1.81%

Run 5: Report of QUIC Cubic — Data Link

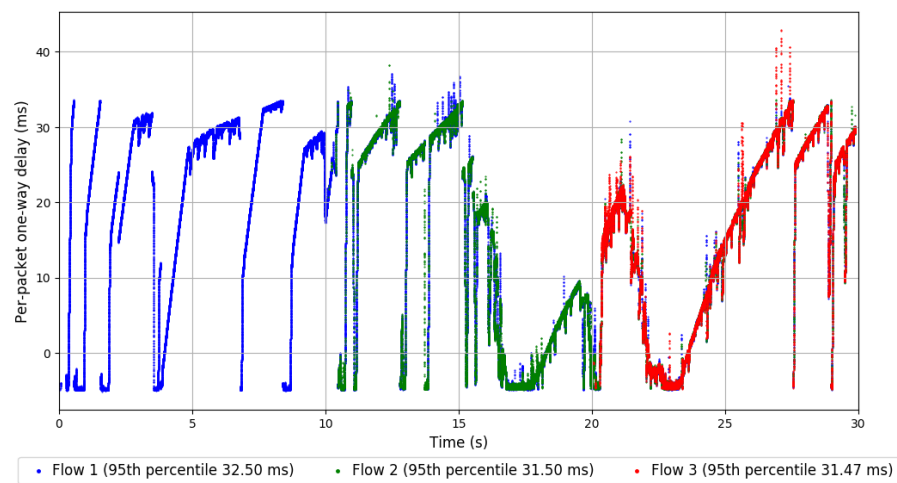
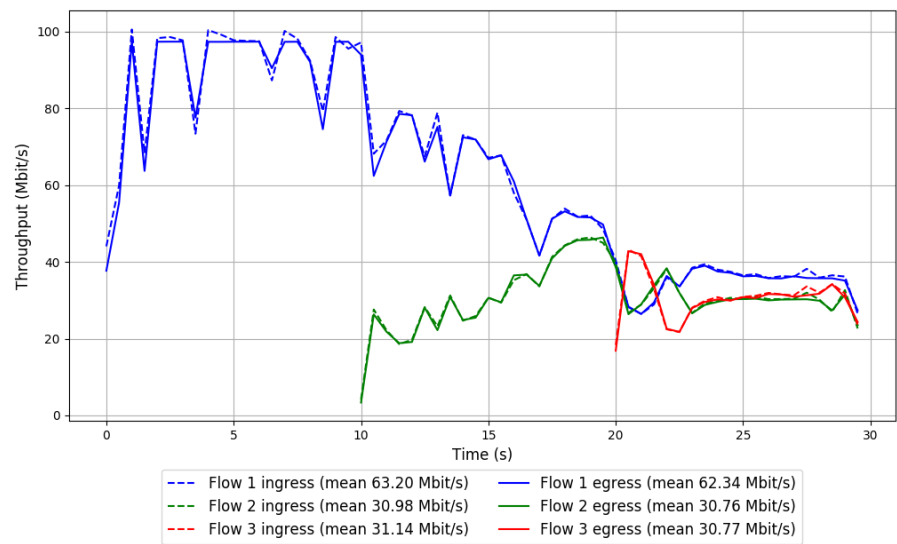


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 12:44:13
End at: 2017-11-16 12:44:43
Local clock offset: 2.652 ms
Remote clock offset: -16.439 ms

Below is generated by plot.py at 2017-11-16 15:03:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 32.275 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 62.34 Mbit/s
95th percentile per-packet one-way delay: 32.496 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 31.505 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 30.77 Mbit/s
95th percentile per-packet one-way delay: 31.474 ms
Loss rate: 0.88%

Run 6: Report of QUIC Cubic — Data Link

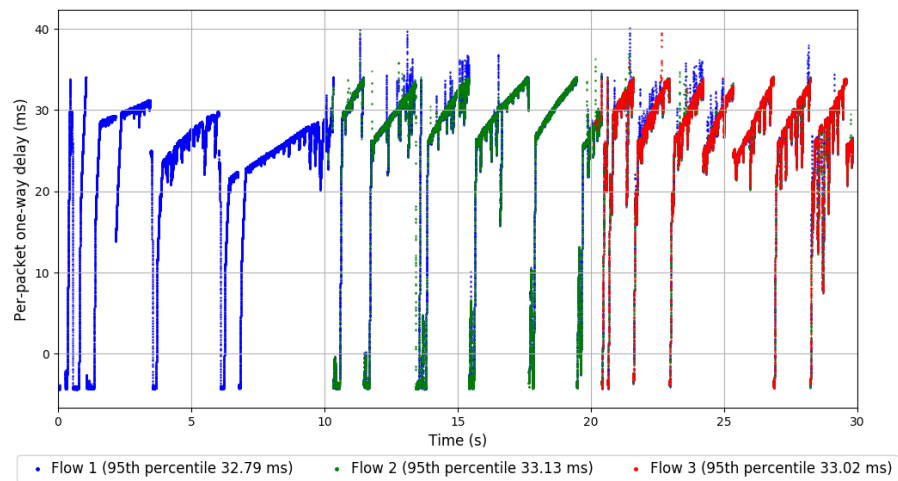
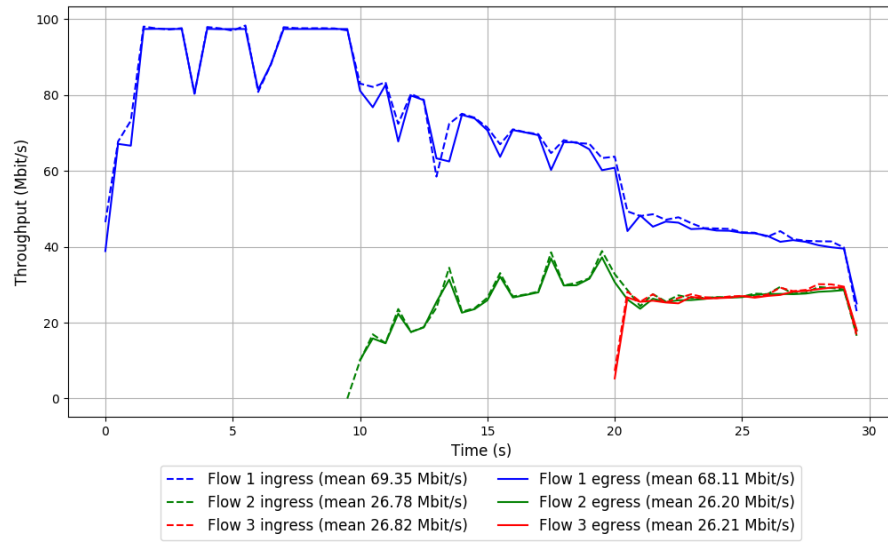


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 13:04:30
End at: 2017-11-16 13:05:00
Local clock offset: 0.926 ms
Remote clock offset: -17.663 ms

Below is generated by plot.py at 2017-11-16 15:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 32.876 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 68.11 Mbit/s
95th percentile per-packet one-way delay: 32.788 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 26.20 Mbit/s
95th percentile per-packet one-way delay: 33.131 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 26.21 Mbit/s
95th percentile per-packet one-way delay: 33.021 ms
Loss rate: 2.27%

Run 7: Report of QUIC Cubic — Data Link

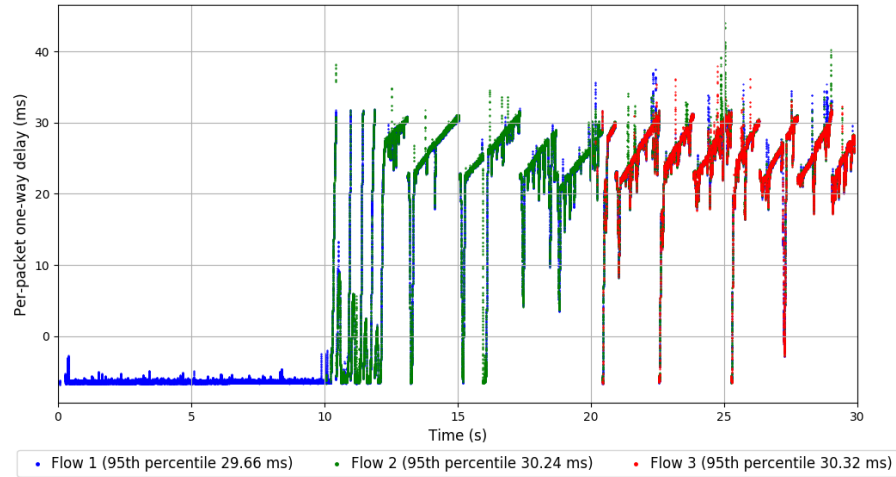
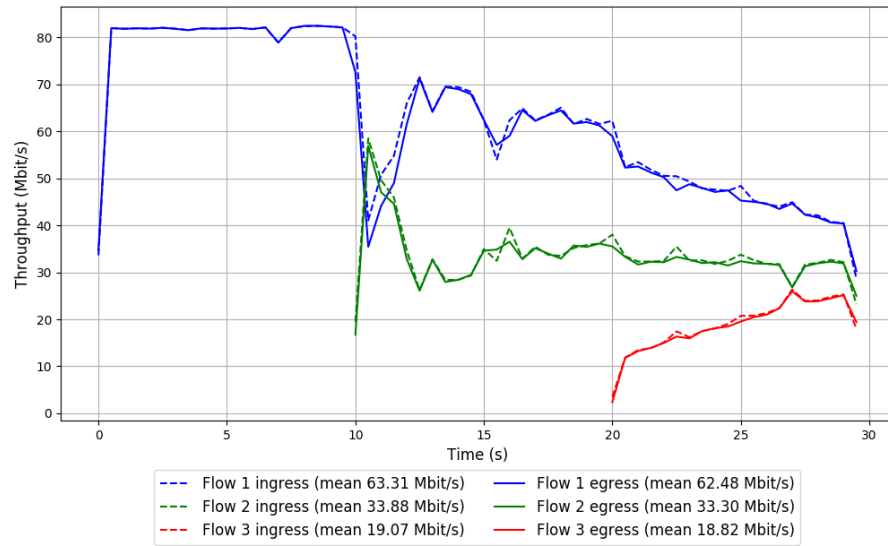


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 13:25:43
End at: 2017-11-16 13:26:13
Local clock offset: 2.644 ms
Remote clock offset: -18.428 ms

Below is generated by plot.py at 2017-11-16 15:04:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 29.867 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 62.48 Mbit/s
95th percentile per-packet one-way delay: 29.659 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 30.240 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 18.82 Mbit/s
95th percentile per-packet one-way delay: 30.315 ms
Loss rate: 1.31%

Run 8: Report of QUIC Cubic — Data Link

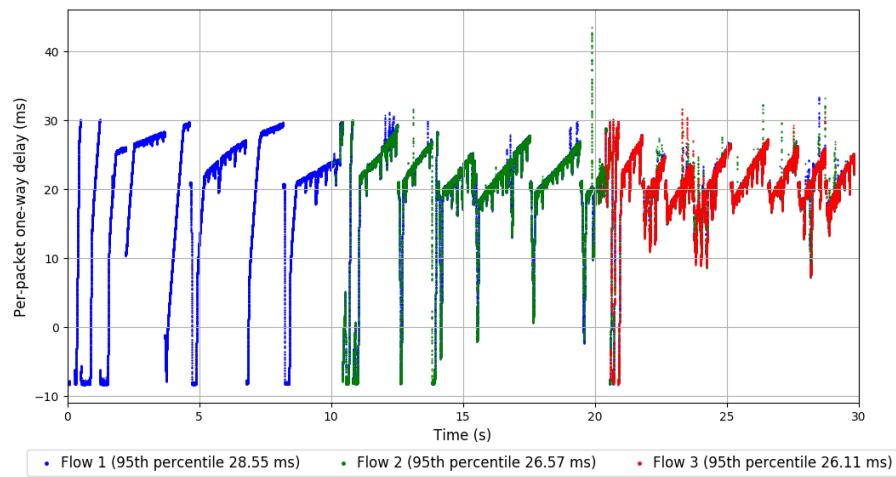
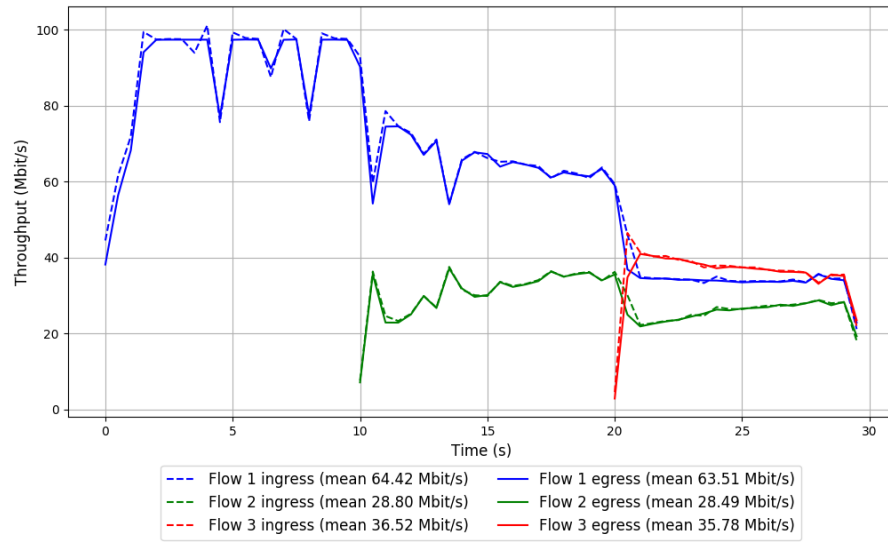


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 13:48:15
End at: 2017-11-16 13:48:45
Local clock offset: 1.55 ms
Remote clock offset: -20.045 ms

Below is generated by plot.py at 2017-11-16 15:05:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 28.096 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 63.51 Mbit/s
95th percentile per-packet one-way delay: 28.553 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 26.571 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 26.105 ms
Loss rate: 2.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 14:09:07

End at: 2017-11-16 14:09:37

Local clock offset: -1.179 ms

Remote clock offset: -18.625 ms

Below is generated by plot.py at 2017-11-16 15:05:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.42 Mbit/s

95th percentile per-packet one-way delay: 30.773 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 30.589 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 31.058 ms

Loss rate: 1.62%

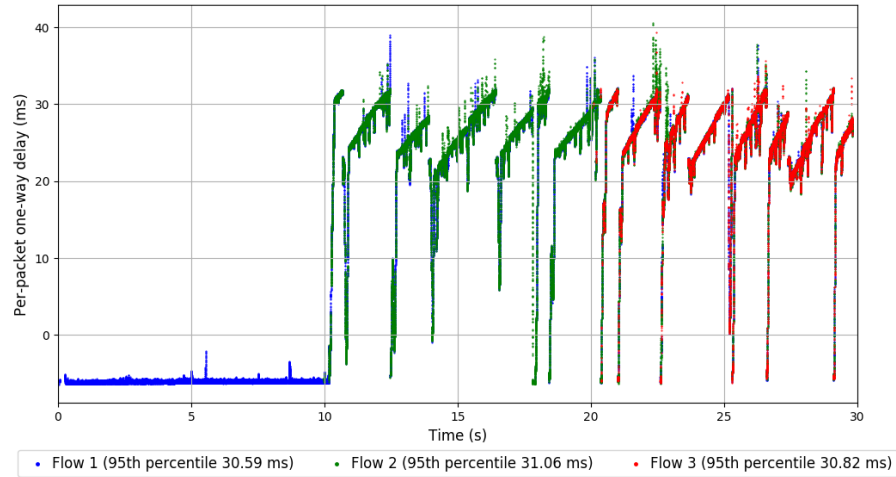
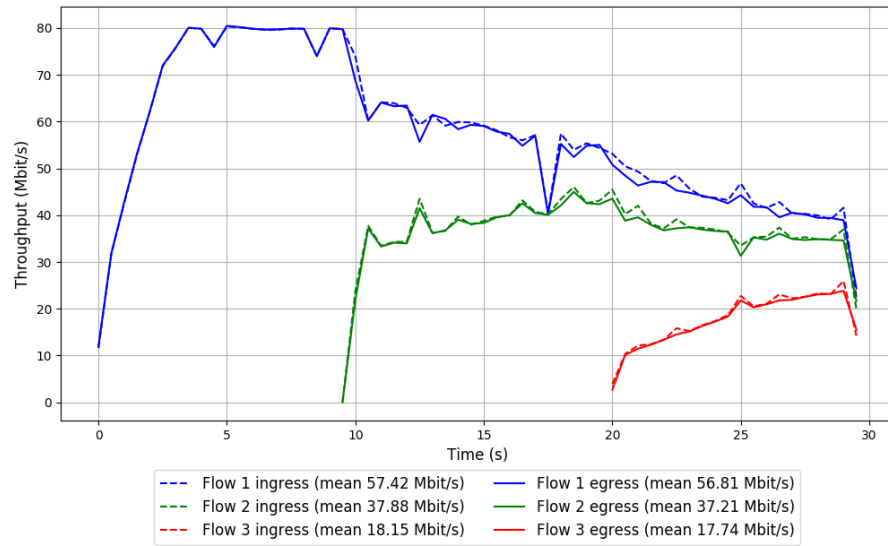
-- Flow 3:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 30.824 ms

Loss rate: 2.27%

Run 10: Report of QUIC Cubic — Data Link

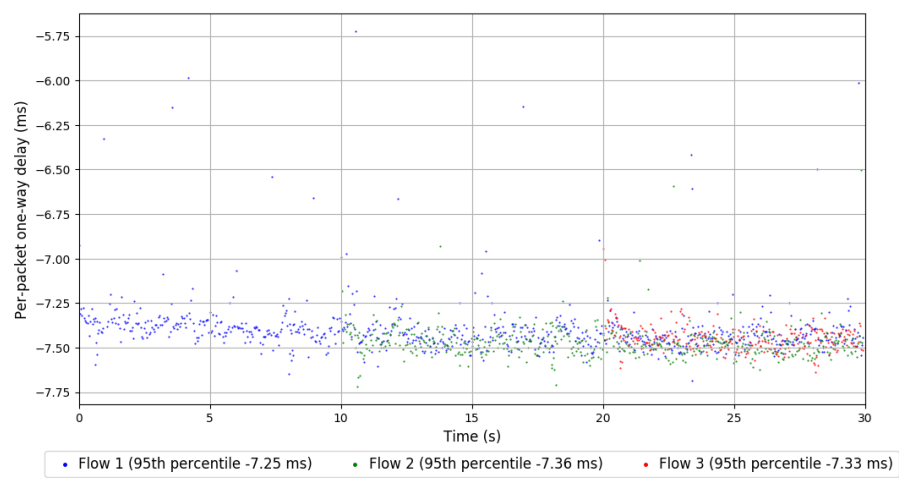
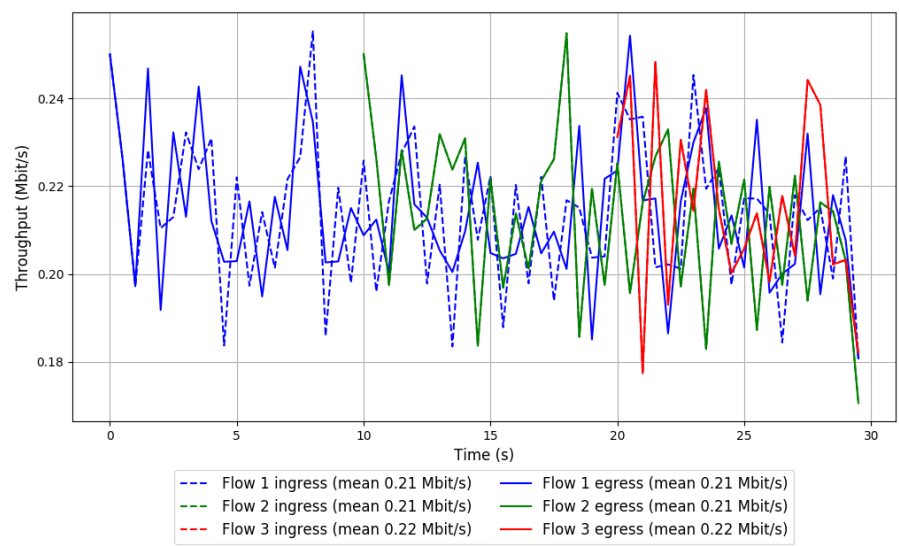


```
Run 1: Statistics of SReAM

Start at: 2017-11-16 11:16:50
End at: 2017-11-16 11:17:20
Local clock offset: 3.705 ms
Remote clock offset: -17.01 ms

# Below is generated by plot.py at 2017-11-16 15:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -7.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -7.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -7.356 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.335 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2017-11-16 11:35:24

End at: 2017-11-16 11:35:54

Local clock offset: 3.773 ms

Remote clock offset: 3.434 ms

Below is generated by plot.py at 2017-11-16 15:05:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 12.198 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 12.172 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.00%

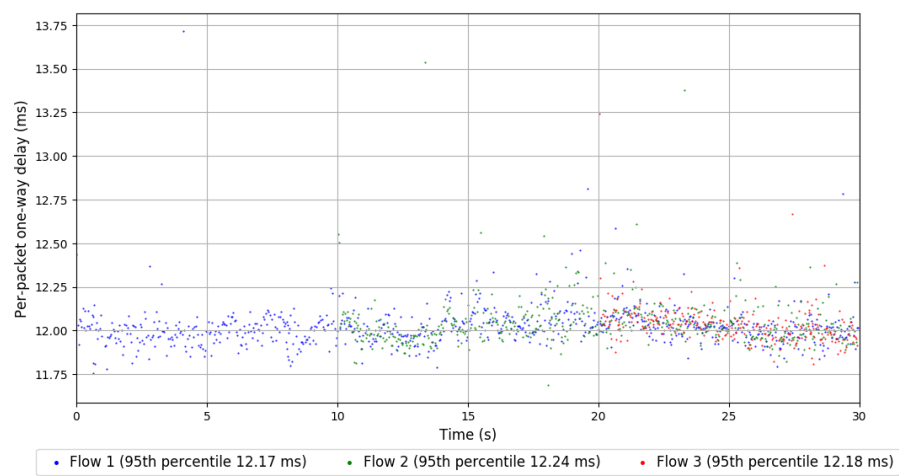
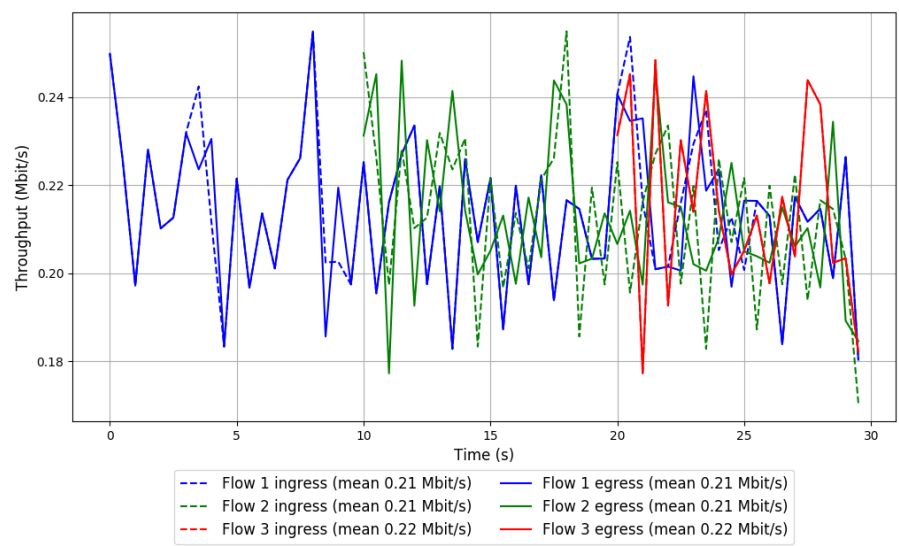
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 12.183 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-16 11:55:18

End at: 2017-11-16 11:55:48

Local clock offset: 4.114 ms

Remote clock offset: 3.287 ms

Below is generated by plot.py at 2017-11-16 15:05:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 13.057 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.045 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.023 ms

Loss rate: 0.00%

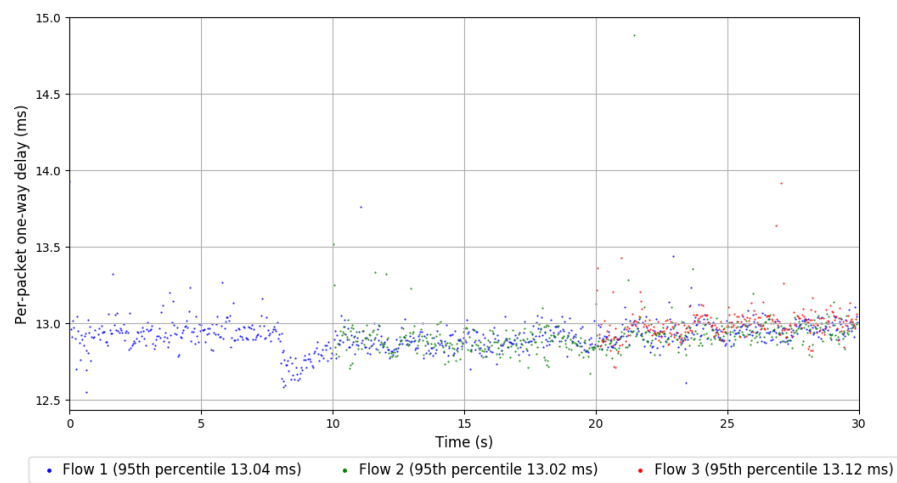
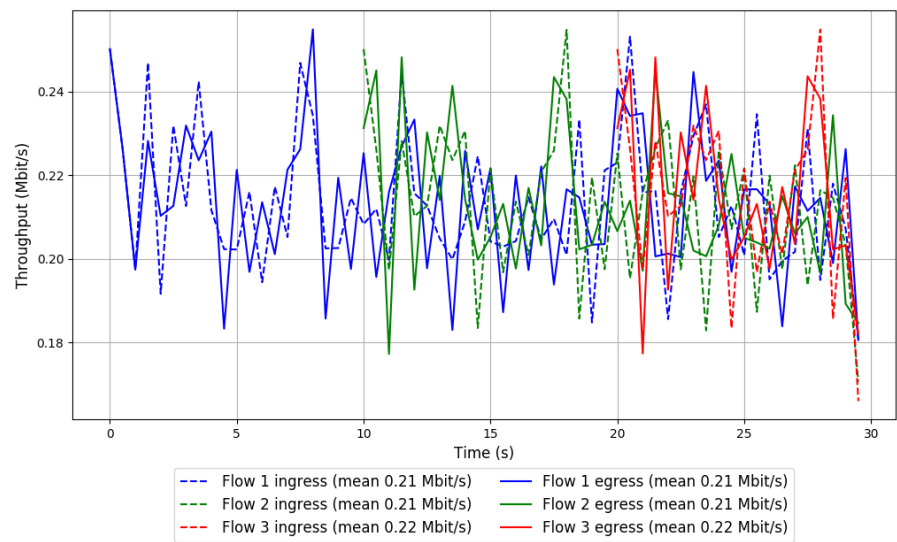
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 13.125 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

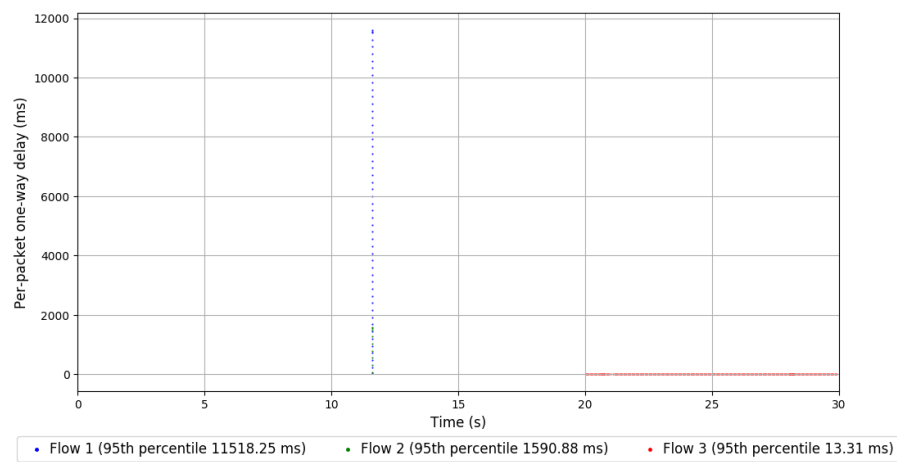
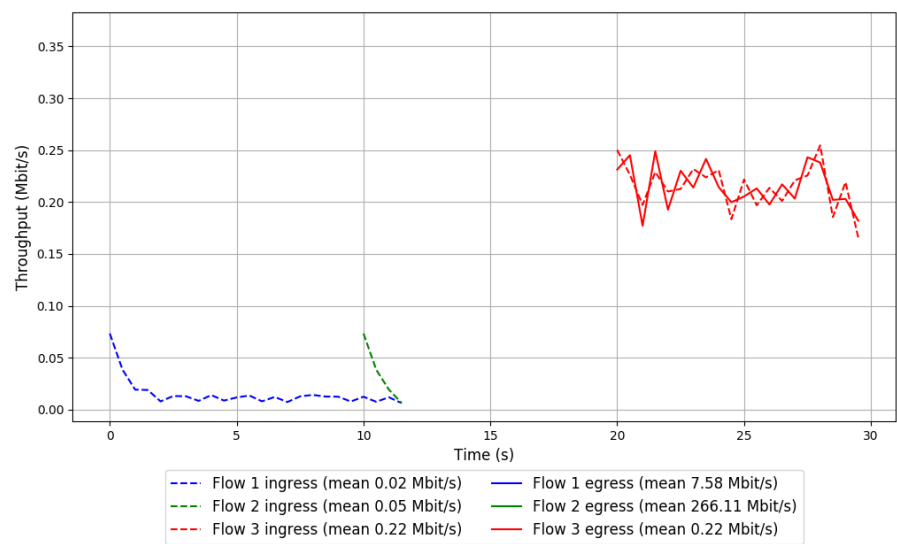
Start at: 2017-11-16 12:15:21

End at: 2017-11-16 12:15:51

Local clock offset: 3.43 ms

Remote clock offset: 1.441 ms

Run 4: Report of SReAM — Data Link

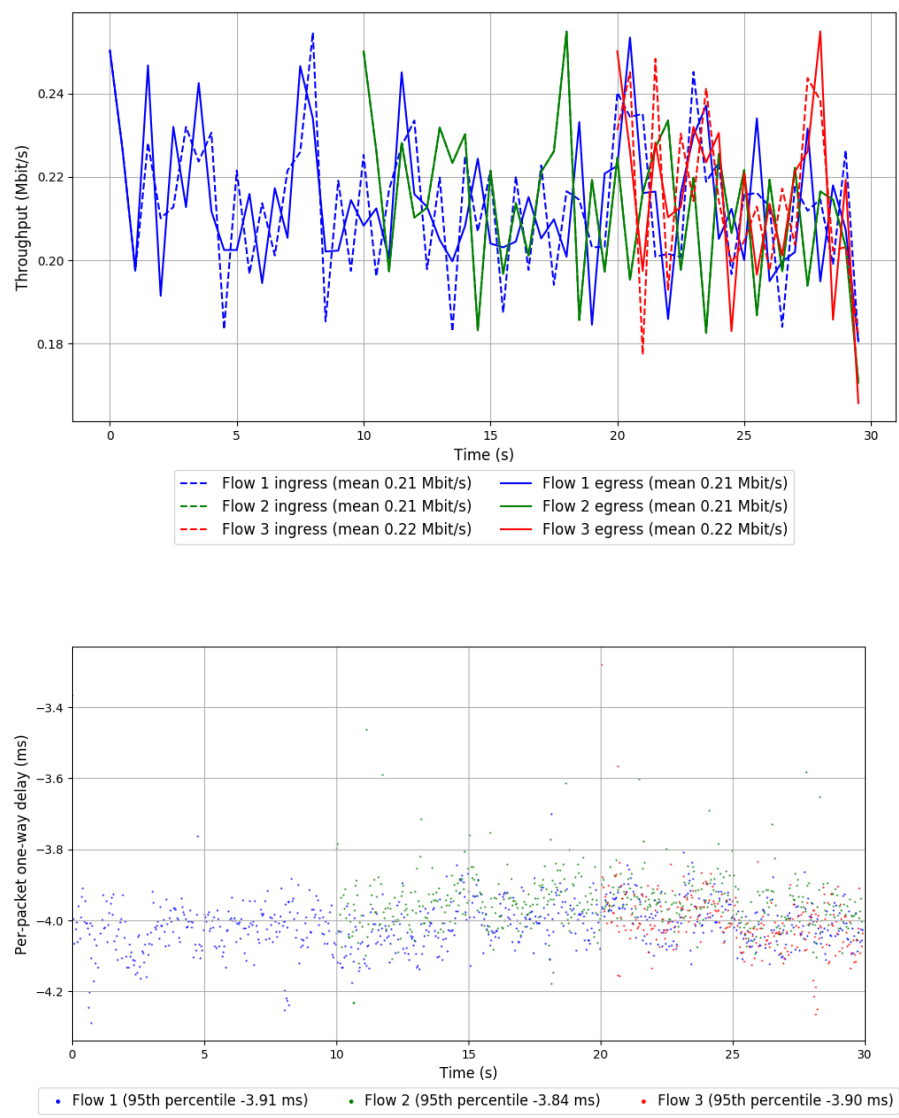


Run 5: Statistics of SReAM

Start at: 2017-11-16 12:35:36
End at: 2017-11-16 12:36:06
Local clock offset: 1.639 ms
Remote clock offset: -16.925 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -3.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.908 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.841 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -3.898 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

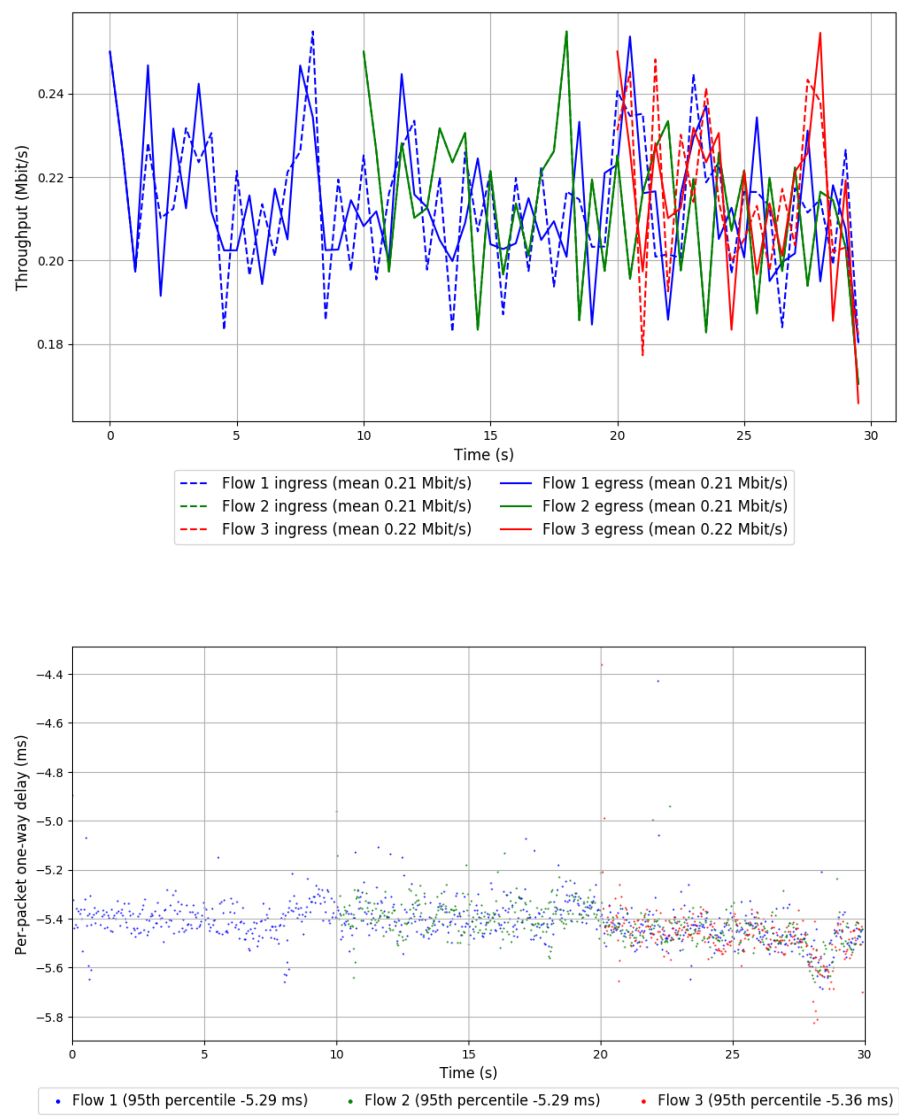


Run 6: Statistics of SReAM

Start at: 2017-11-16 12:56:11
End at: 2017-11-16 12:56:41
Local clock offset: 2.526 ms
Remote clock offset: -17.066 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -5.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -5.295 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -5.363 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

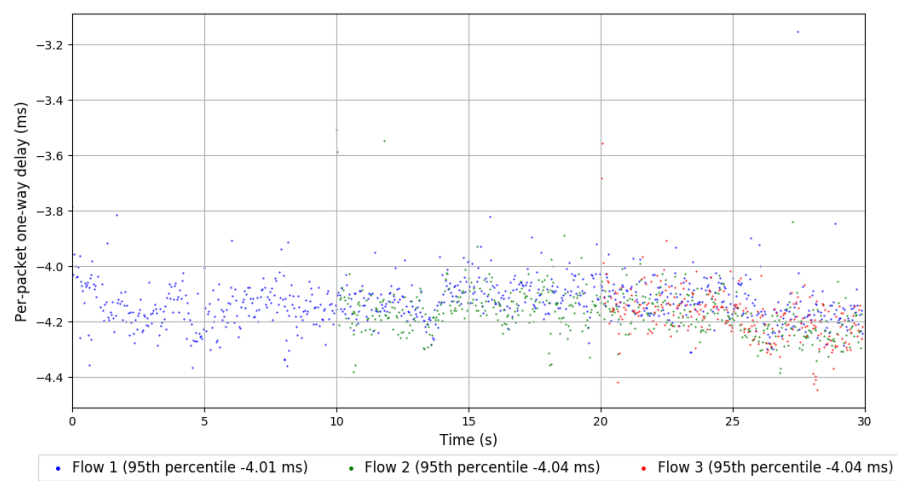
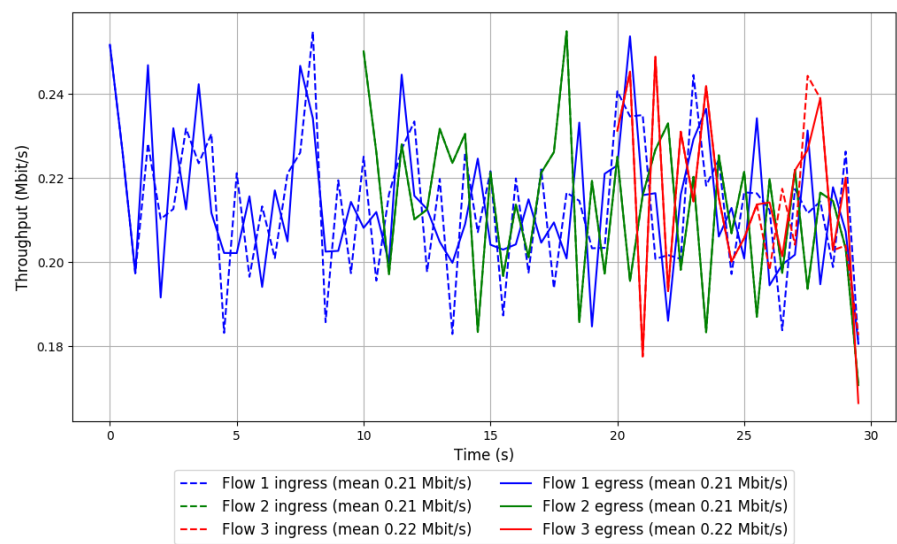


Run 7: Statistics of SReAM

Start at: 2017-11-16 13:16:35
End at: 2017-11-16 13:17:05
Local clock offset: 1.187 ms
Remote clock offset: -17.37 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -4.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.006 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -4.043 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

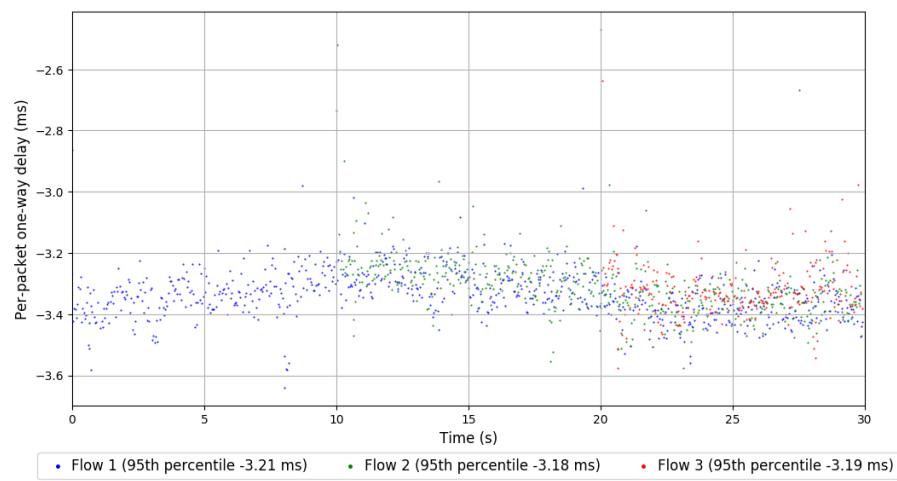
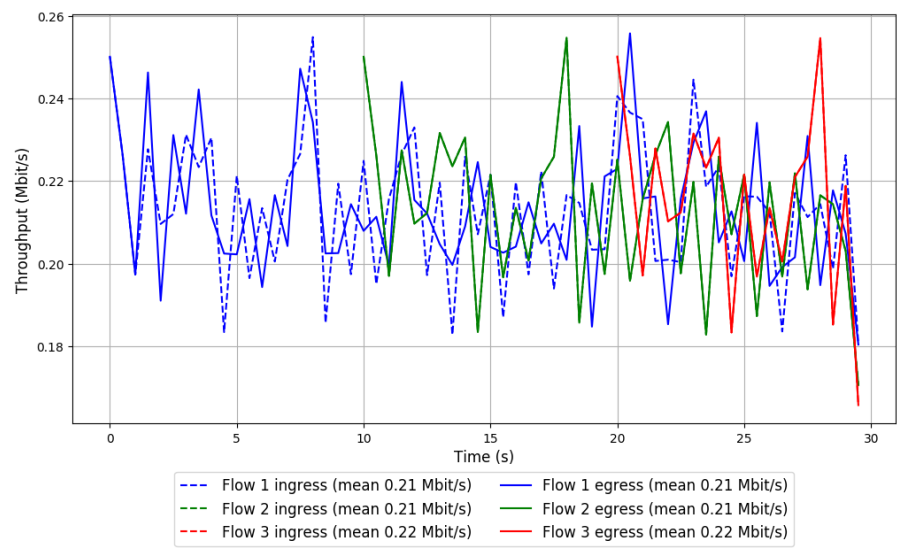


Run 8: Statistics of SReAM

Start at: 2017-11-16 13:39:11
End at: 2017-11-16 13:39:41
Local clock offset: -0.378 ms
Remote clock offset: -17.911 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -3.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.210 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -3.190 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

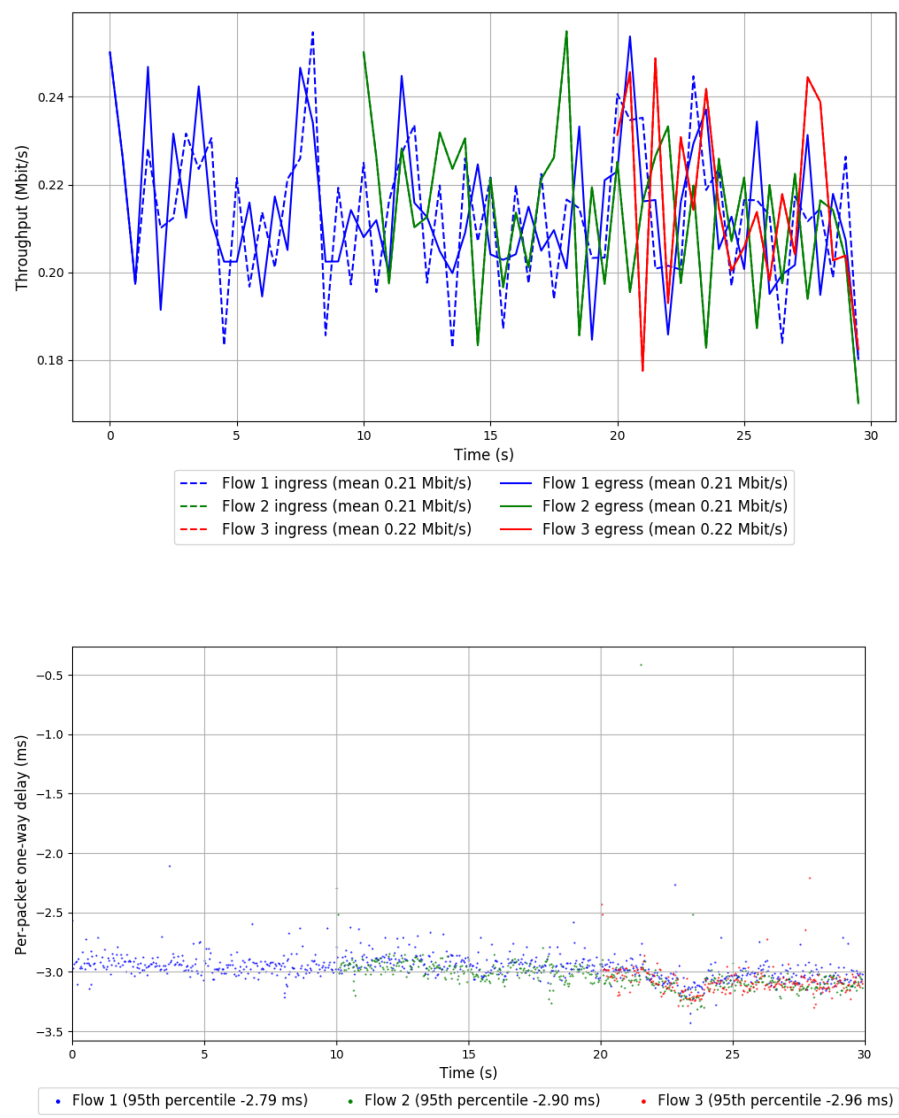


Run 9: Statistics of SReAM

Start at: 2017-11-16 14:00:26
End at: 2017-11-16 14:00:56
Local clock offset: -2.013 ms
Remote clock offset: -17.191 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -2.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.788 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -2.965 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

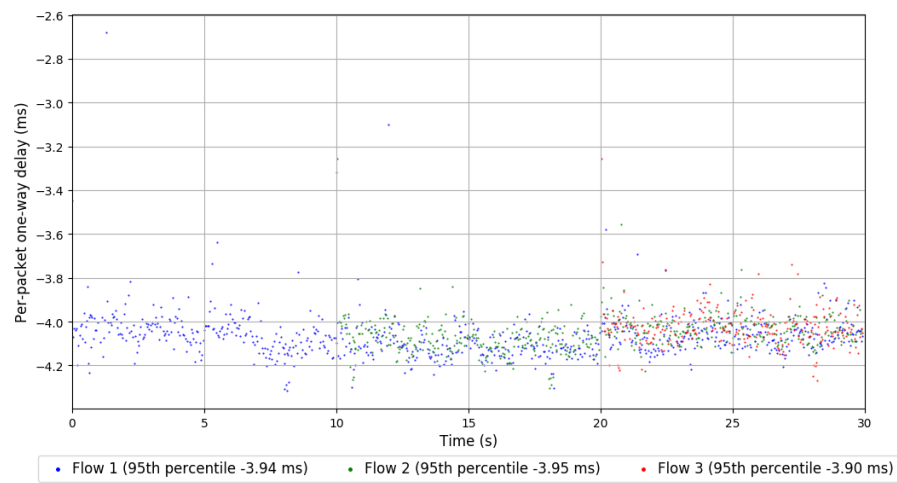
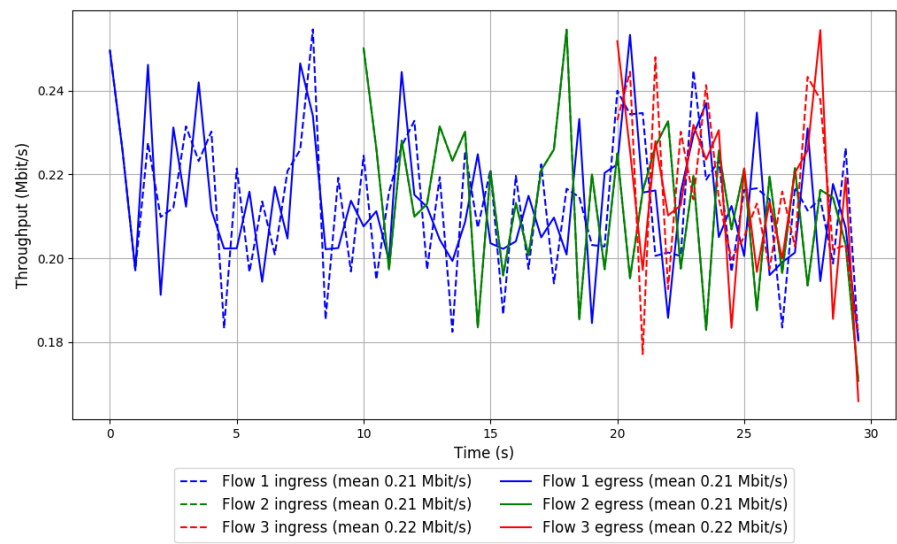


Run 10: Statistics of SReAM

Start at: 2017-11-16 14:22:21
End at: 2017-11-16 14:22:51
Local clock offset: -2.382 ms
Remote clock offset: -16.785 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -3.926 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.939 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.946 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -3.895 ms
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

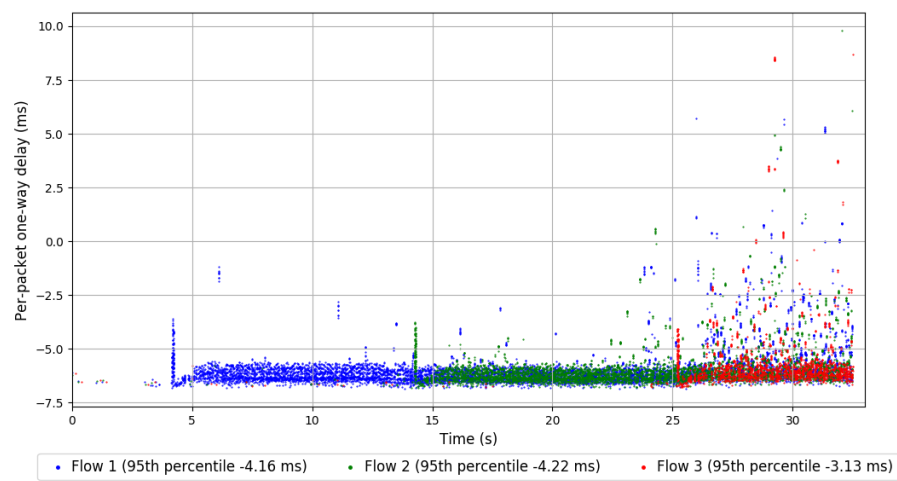
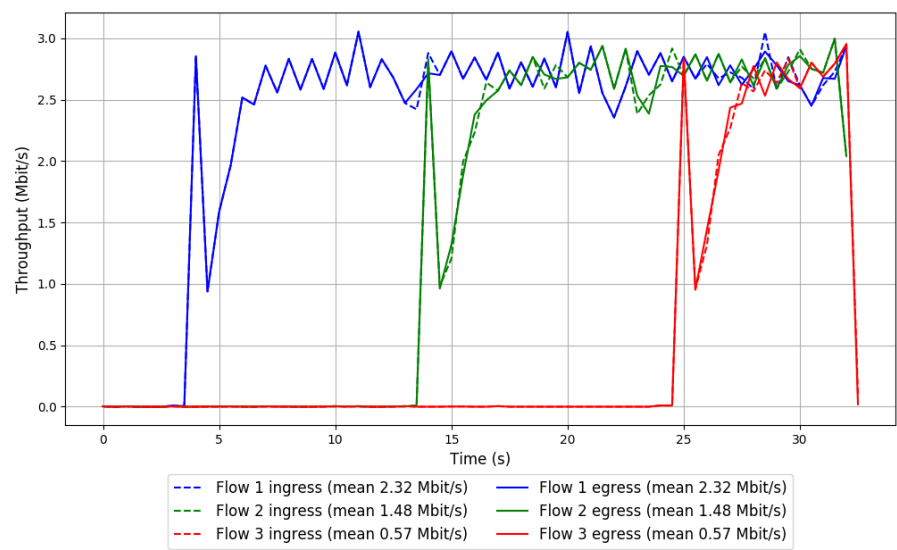


Run 1: Statistics of WebRTC media

Start at: 2017-11-16 11:23:24
End at: 2017-11-16 11:23:54
Local clock offset: 1.295 ms
Remote clock offset: -17.965 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: -3.989 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -4.164 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -4.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: -3.134 ms
Loss rate: 0.22%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 11:42:12

End at: 2017-11-16 11:42:42

Local clock offset: 3.893 ms

Remote clock offset: 4.419 ms

Below is generated by plot.py at 2017-11-16 15:05:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 16.383 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 16.002 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 16.582 ms

Loss rate: 0.00%

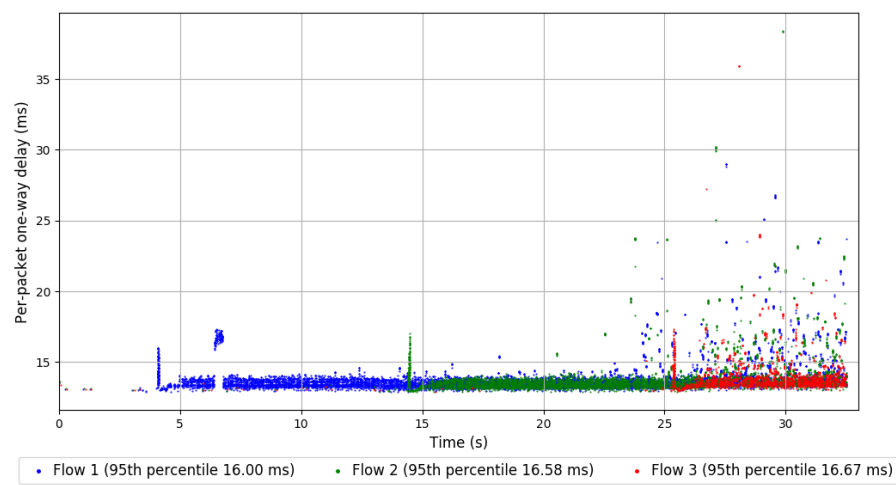
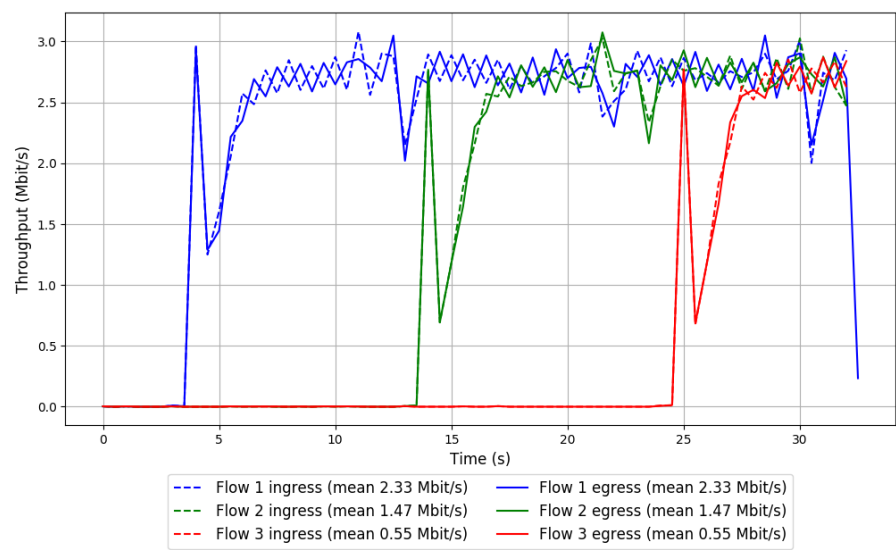
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 16.674 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

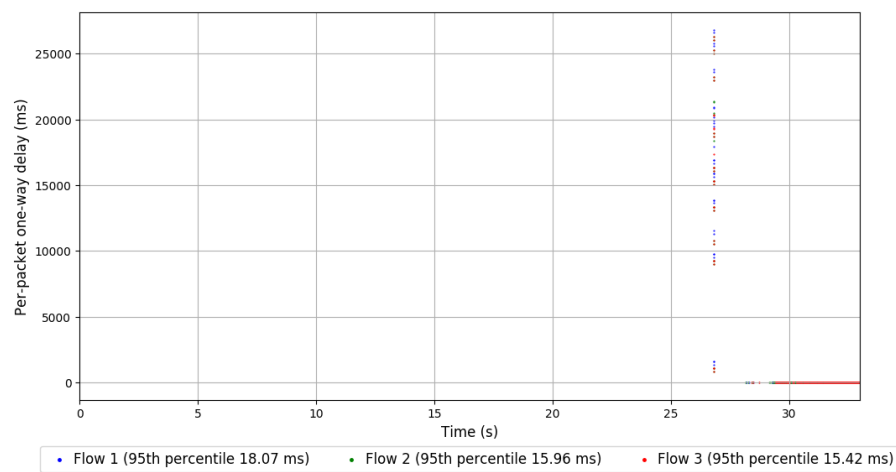
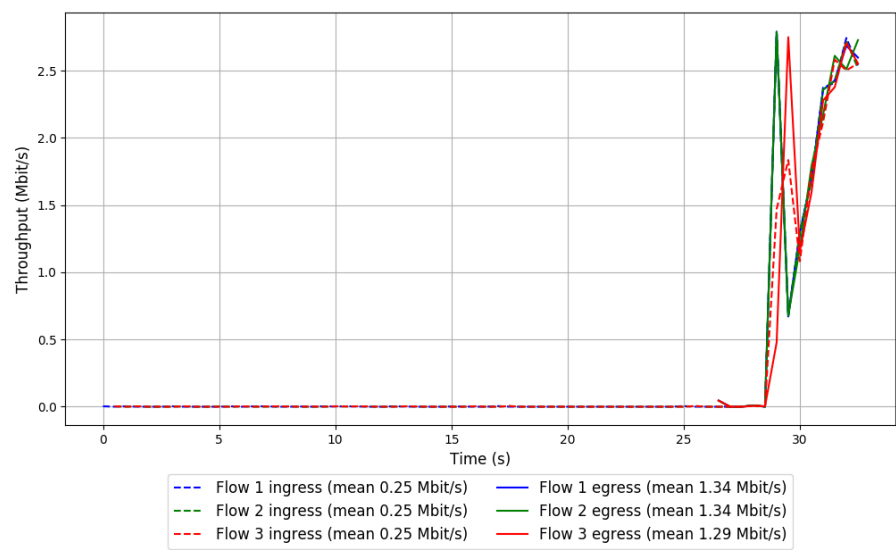
Start at: 2017-11-16 12:02:27

End at: 2017-11-16 12:02:57

Local clock offset: 2.861 ms

Remote clock offset: 0.744 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 12:22:46

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

Local clock offset: 1.872 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2017-11-16 15:05:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 15.879 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 15.436 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 15.691 ms

Loss rate: 0.00%

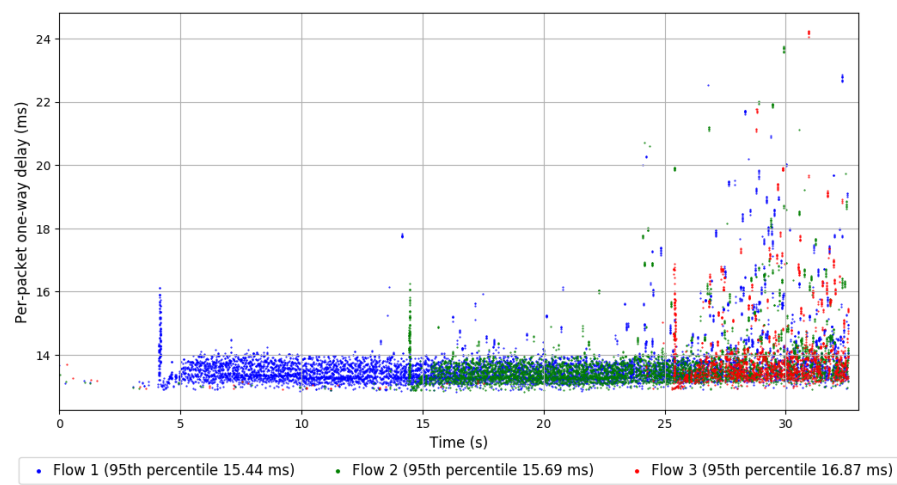
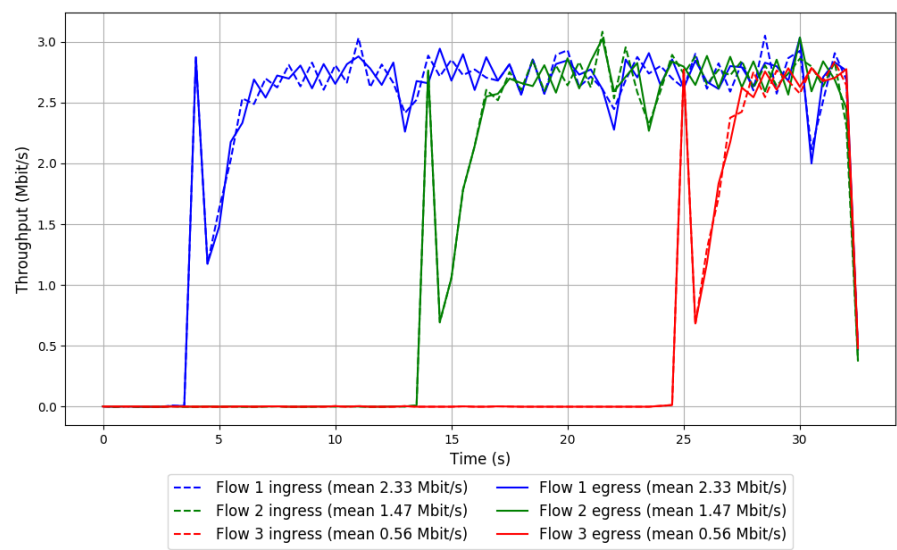
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 16.867 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

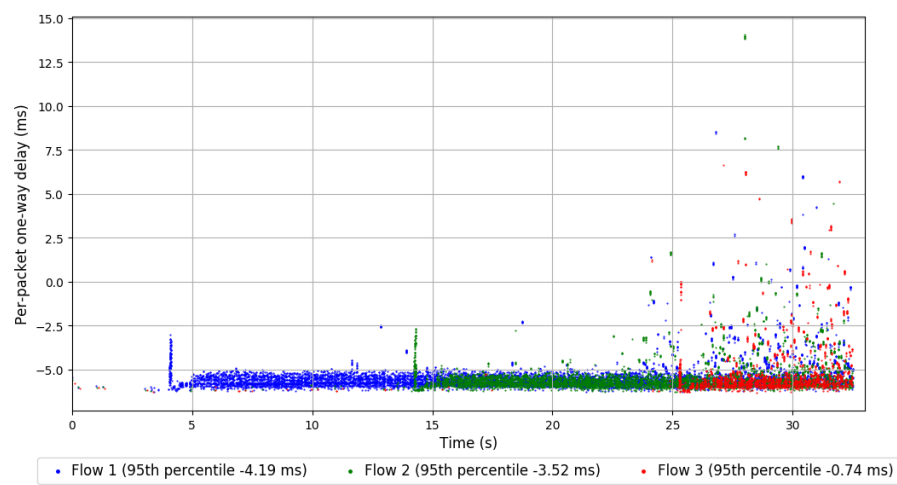
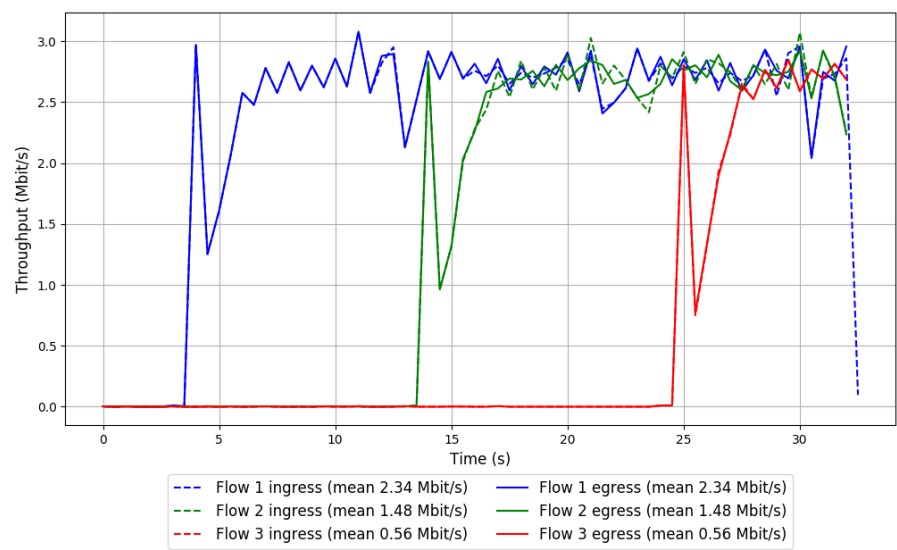


Run 5: Statistics of WebRTC media

Start at: 2017-11-16 12:43:05
End at: 2017-11-16 12:43:35
Local clock offset: 2.187 ms
Remote clock offset: -18.08 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: -3.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -4.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -3.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: -0.736 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

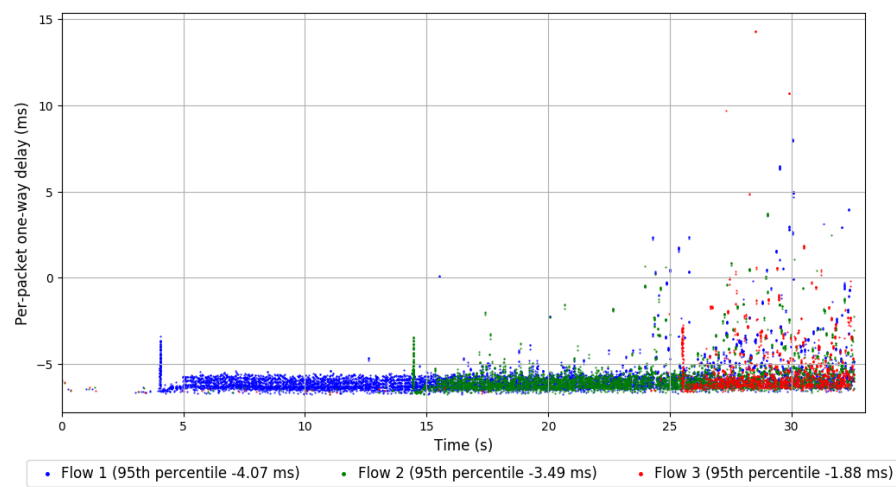
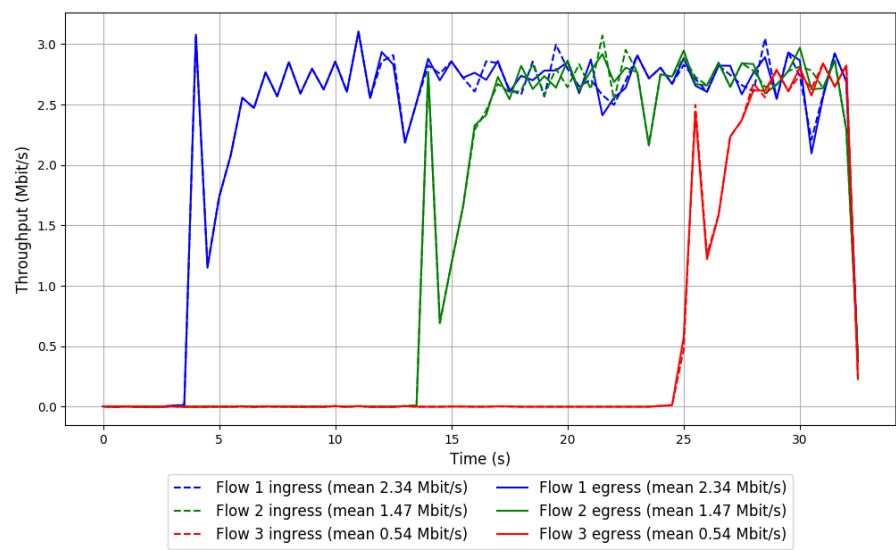


Run 6: Statistics of WebRTC media

Start at: 2017-11-16 13:03:23
End at: 2017-11-16 13:03:53
Local clock offset: 1.642 ms
Remote clock offset: -19.02 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -3.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -4.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -3.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -1.879 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

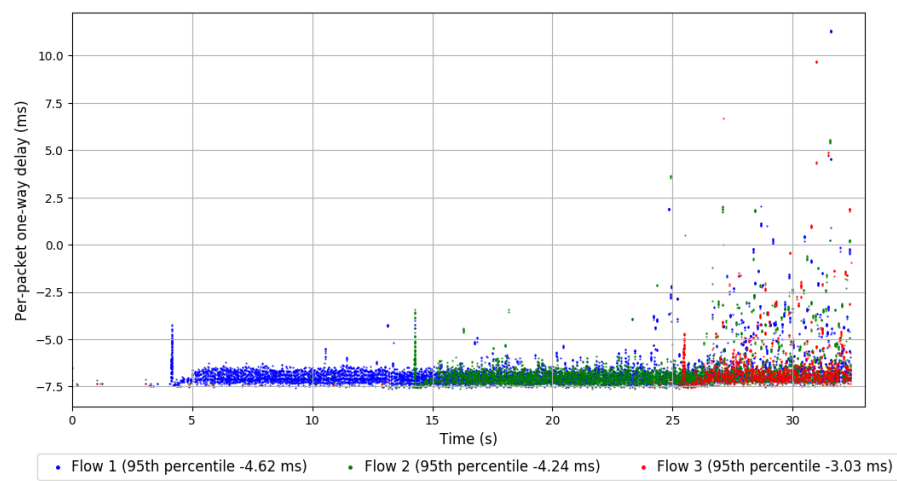


Run 7: Statistics of WebRTC media

Start at: 2017-11-16 13:24:36
End at: 2017-11-16 13:25:06
Local clock offset: 2.727 ms
Remote clock offset: -19.046 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: -4.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -4.623 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -4.242 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: -3.027 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

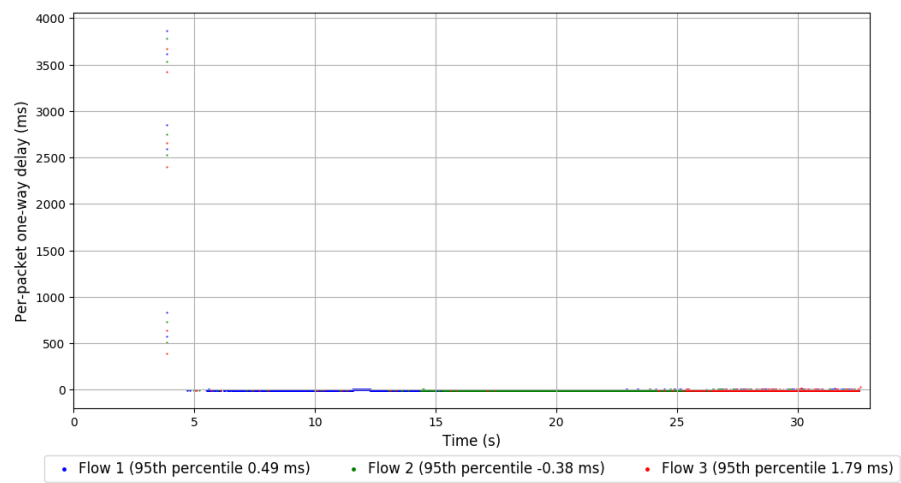
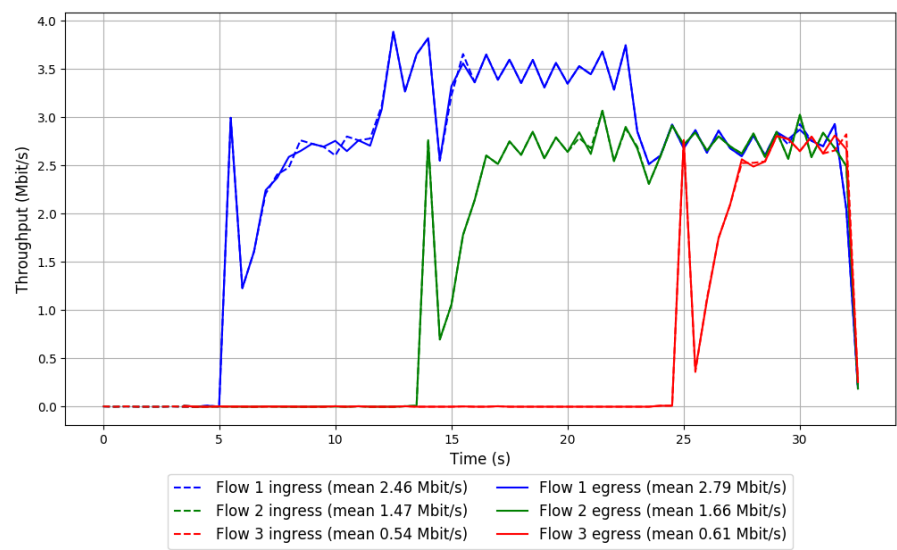


Run 8: Statistics of WebRTC media

Start at: 2017-11-16 13:47:00
End at: 2017-11-16 13:47:30
Local clock offset: -5.305 ms
Remote clock offset: -21.546 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 0.389 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 0.494 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: -0.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 1.790 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

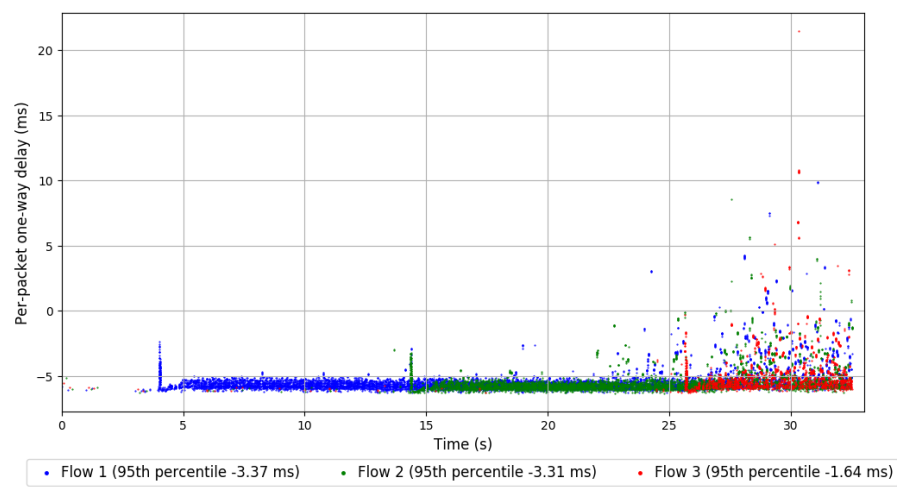
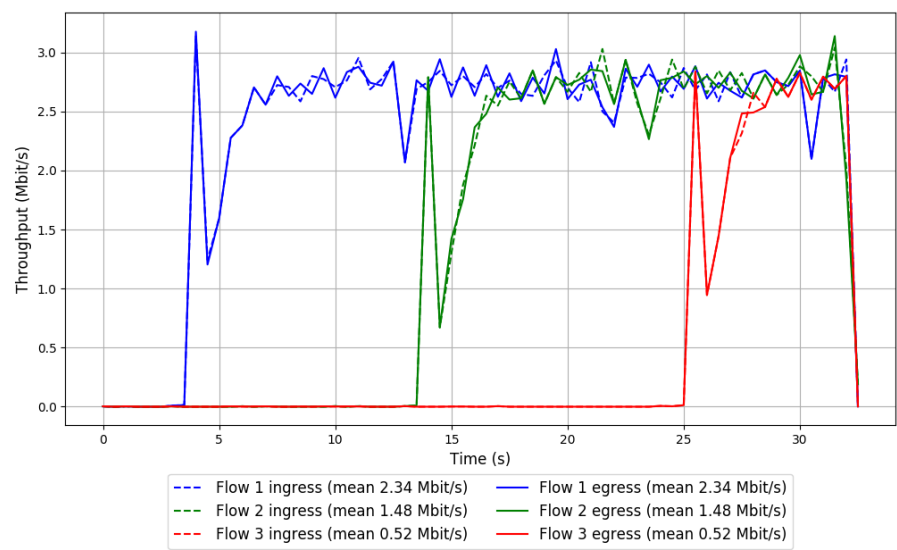


Run 9: Statistics of WebRTC media

Start at: 2017-11-16 14:07:59
End at: 2017-11-16 14:08:29
Local clock offset: -0.58 ms
Remote clock offset: -17.817 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: -3.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -3.371 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -3.314 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: -1.644 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

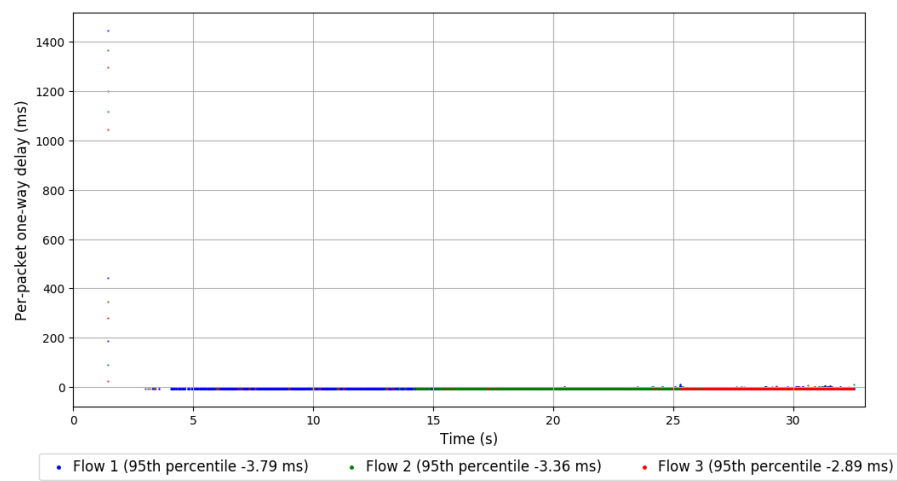
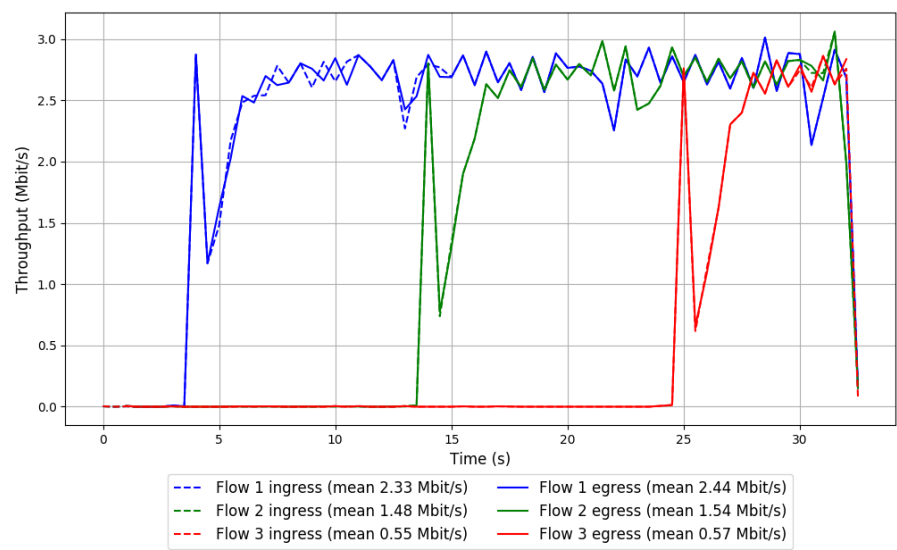


Run 10: Statistics of WebRTC media

Start at: 2017-11-16 14:29:47
End at: 2017-11-16 14:30:17
Local clock offset: -1.223 ms
Remote clock offset: -17.07 ms

Below is generated by plot.py at 2017-11-16 15:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: -3.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: -3.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: -3.361 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: -2.886 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

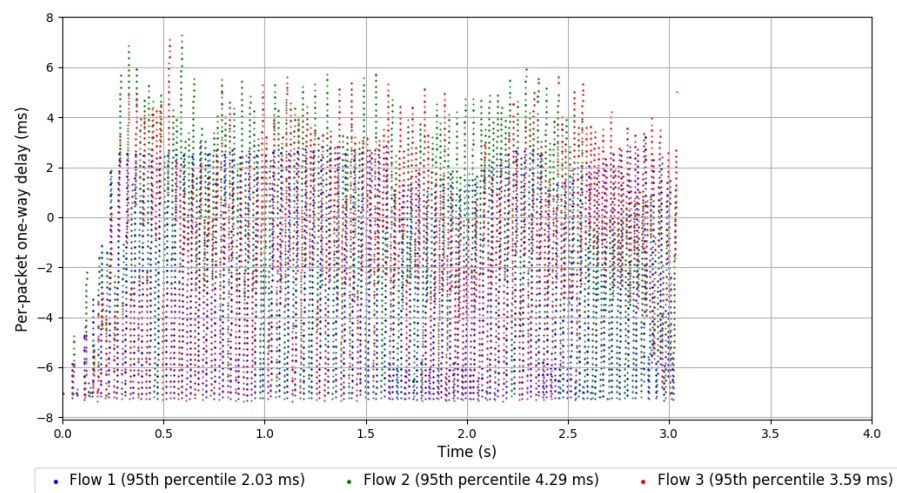
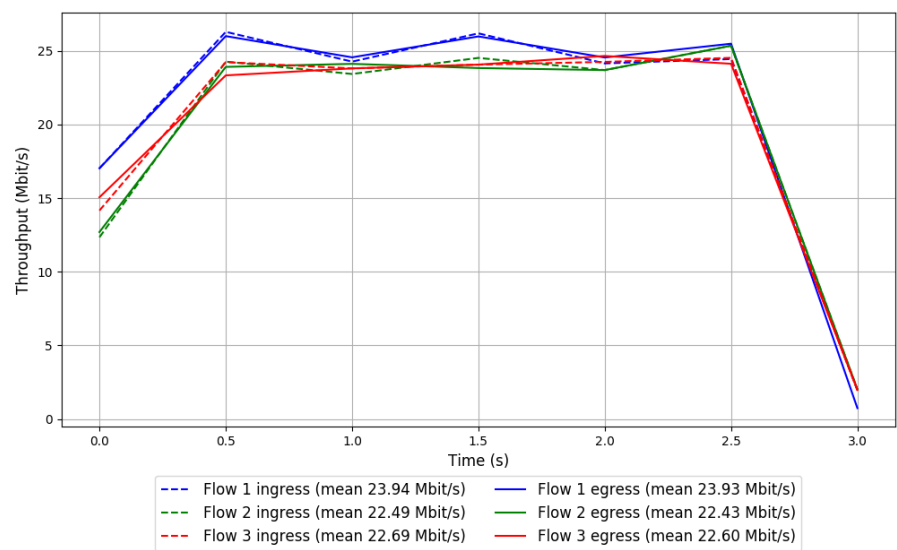
Start at: 2017-11-16 11:11:27

End at: 2017-11-16 11:11:57

Local clock offset: 1.553 ms

Remote clock offset: -19.014 ms

Run 1: Report of Sprout — Data Link

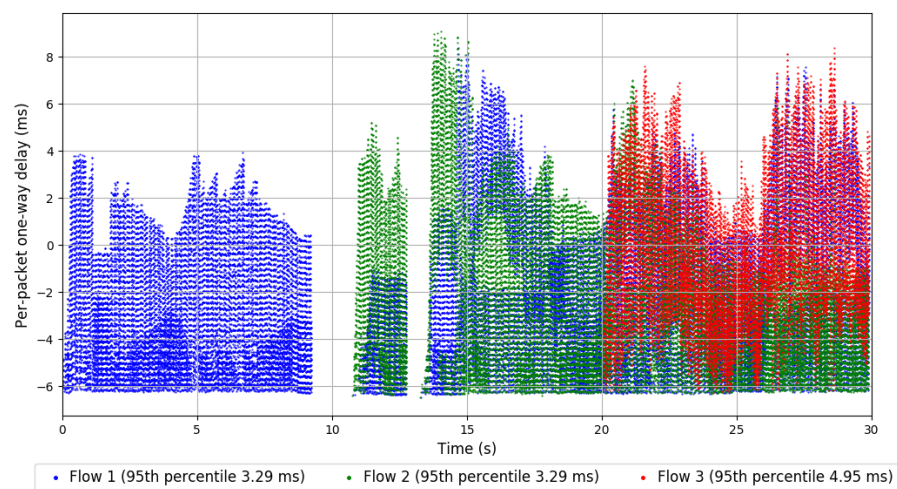
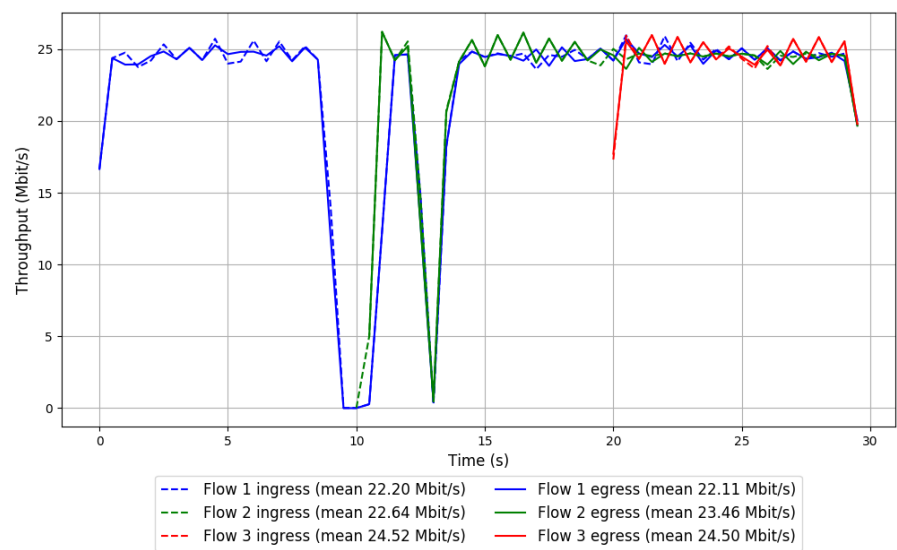


Run 2: Statistics of Sprout

Start at: 2017-11-16 11:29:54
End at: 2017-11-16 11:30:24
Local clock offset: 2.502 ms
Remote clock offset: -16.266 ms

```
# Below is generated by plot.py at 2017-11-16 15:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.23 Mbit/s
95th percentile per-packet one-way delay: 3.781 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 3.293 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 3.294 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 4.947 ms
Loss rate: 0.00%
```


Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

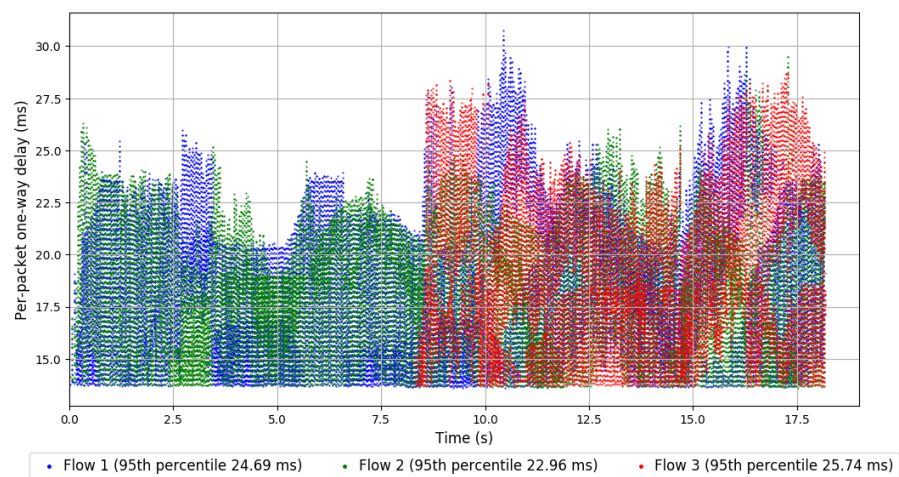
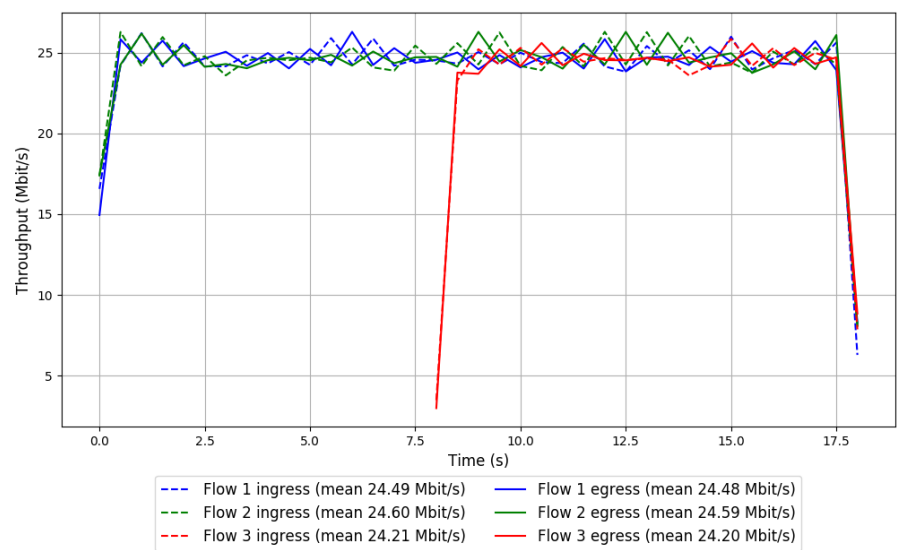
Start at: 2017-11-16 11:49:24

End at: 2017-11-16 11:49:54

Local clock offset: 1.907 ms

Remote clock offset: 2.47 ms

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

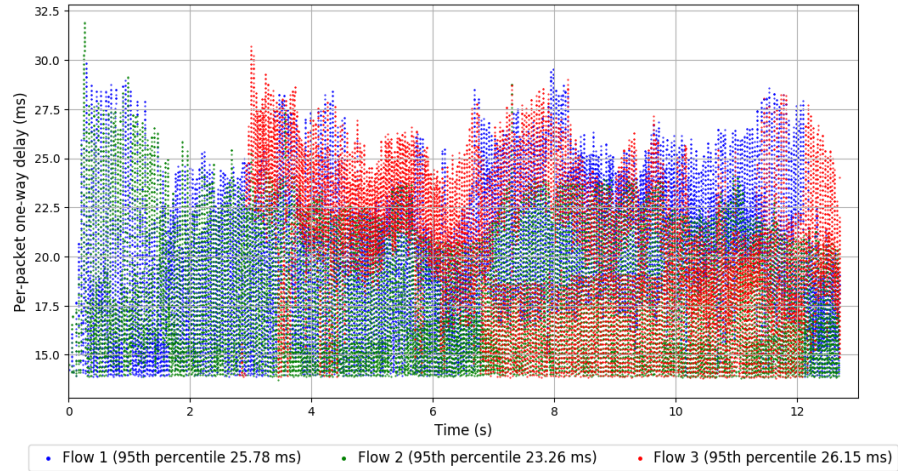
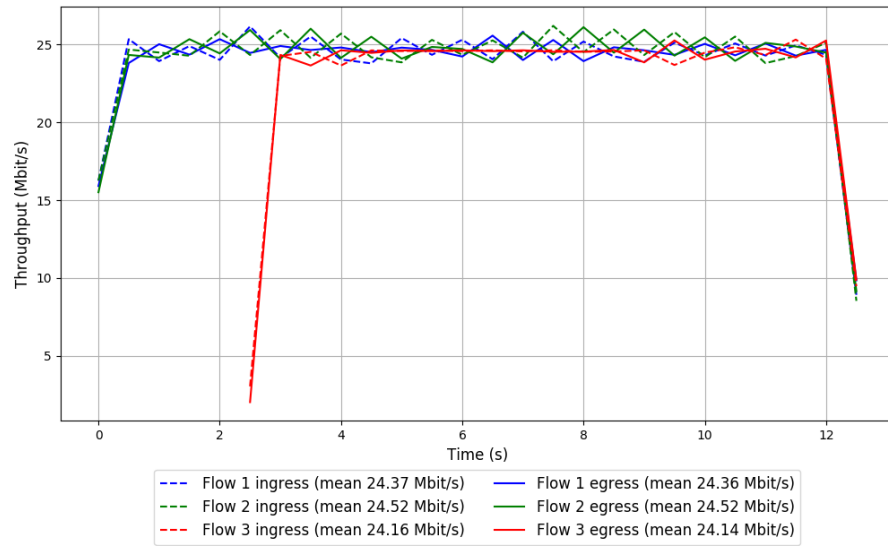
Start at: 2017-11-16 12:09:18

End at: 2017-11-16 12:09:48

Local clock offset: 2.688 ms

Remote clock offset: 2.18 ms

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

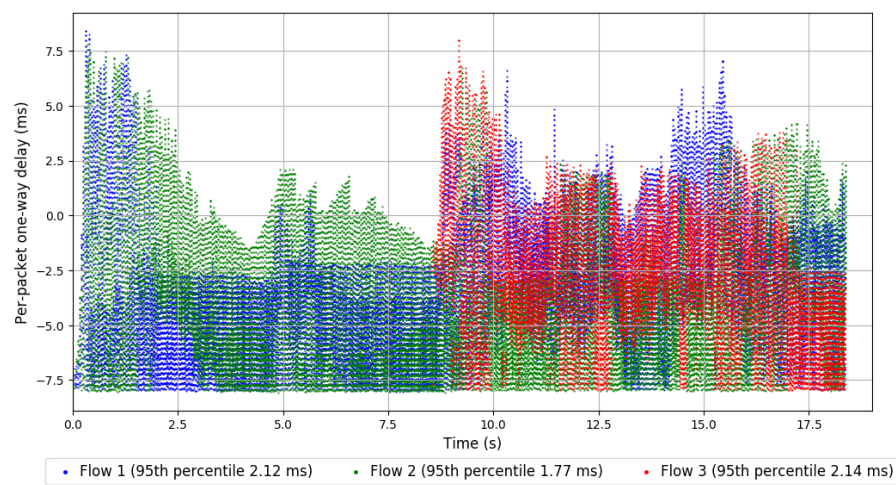
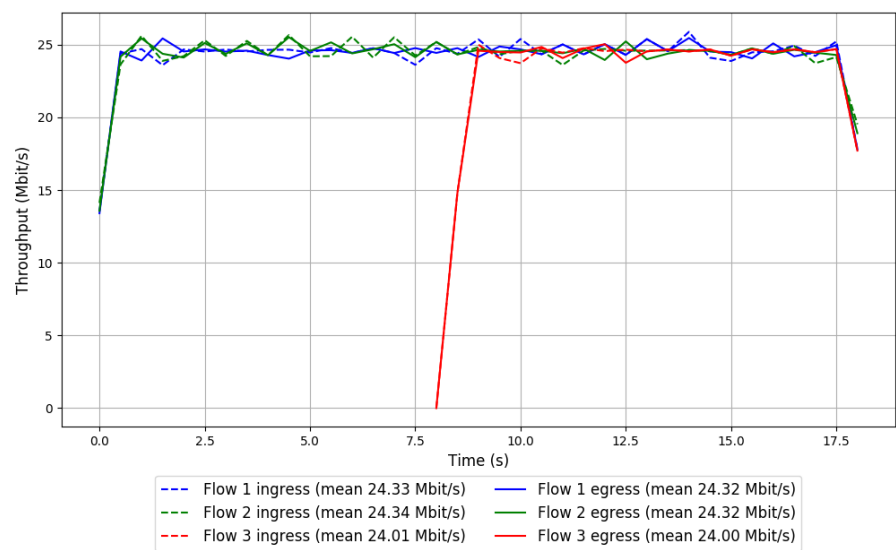
Start at: 2017-11-16 12:29:45

End at: 2017-11-16 12:30:15

Local clock offset: 4.764 ms

Remote clock offset: -17.836 ms

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

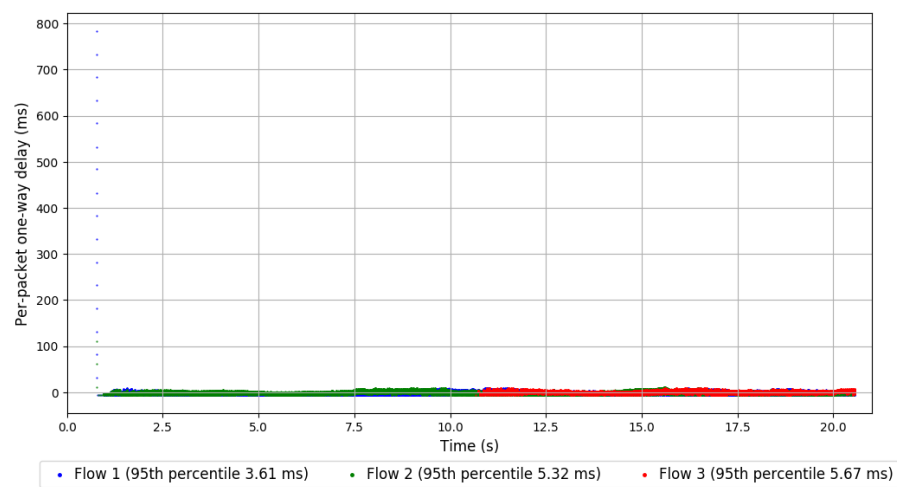
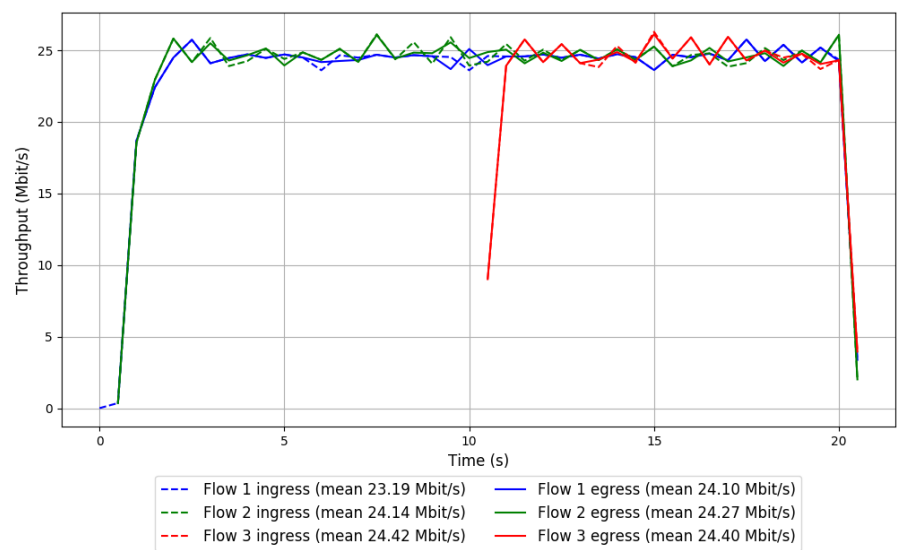
Start at: 2017-11-16 12:50:32

End at: 2017-11-16 12:51:02

Local clock offset: 2.621 ms

Remote clock offset: -17.13 ms

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

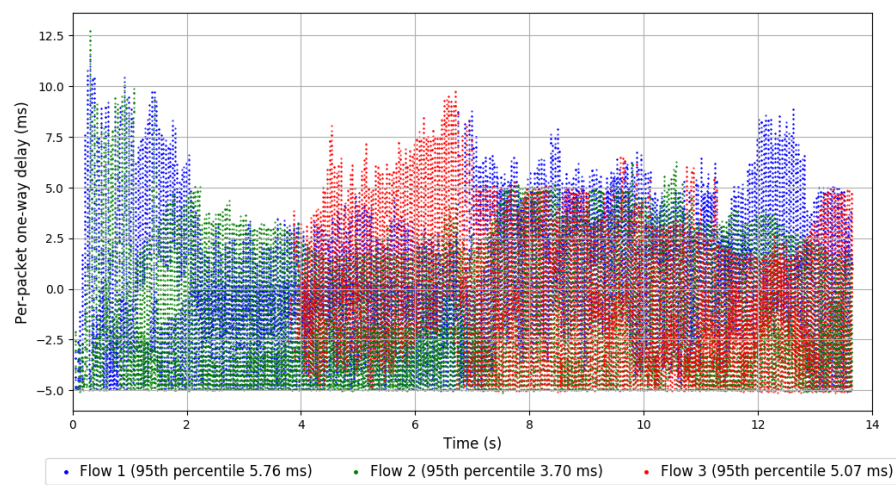
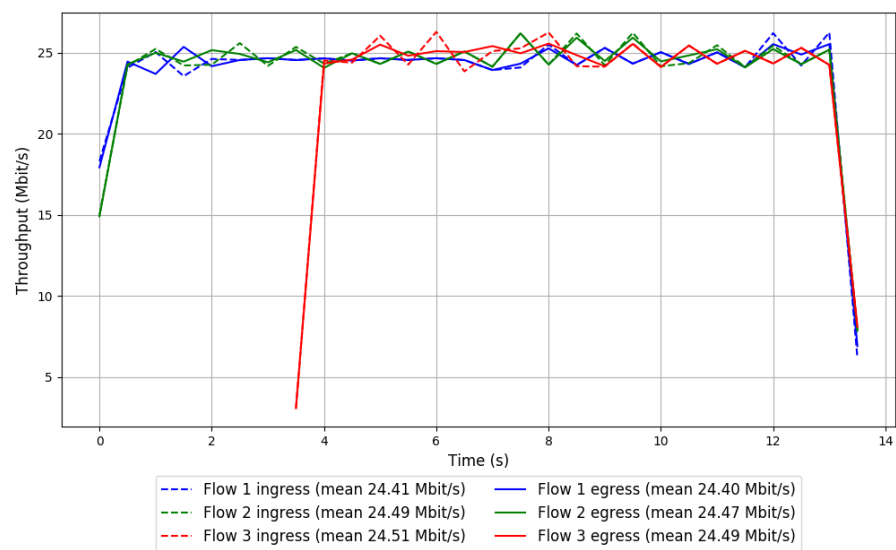
Start at: 2017-11-16 13:10:23

End at: 2017-11-16 13:10:53

Local clock offset: 2.229 ms

Remote clock offset: -17.279 ms

Run 7: Report of Sprout — Data Link

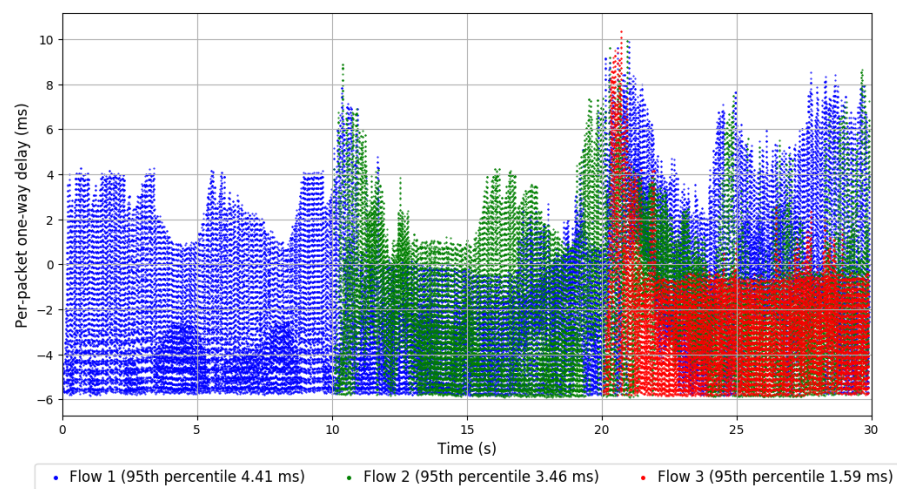
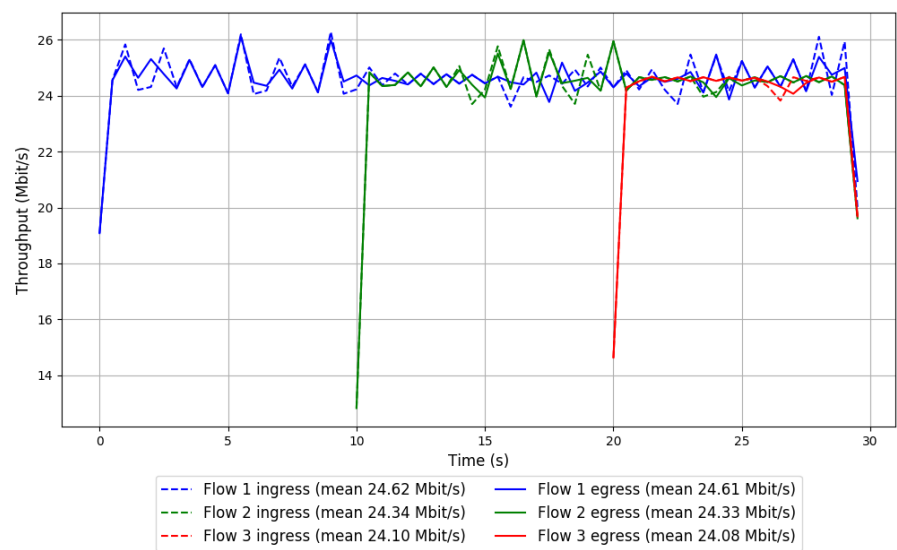


Run 8: Statistics of Sprout

Start at: 2017-11-16 13:32:19
End at: 2017-11-16 13:32:49
Local clock offset: 2.651 ms
Remote clock offset: -17.333 ms

```
# Below is generated by plot.py at 2017-11-16 15:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 3.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 4.414 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 3.462 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 1.589 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

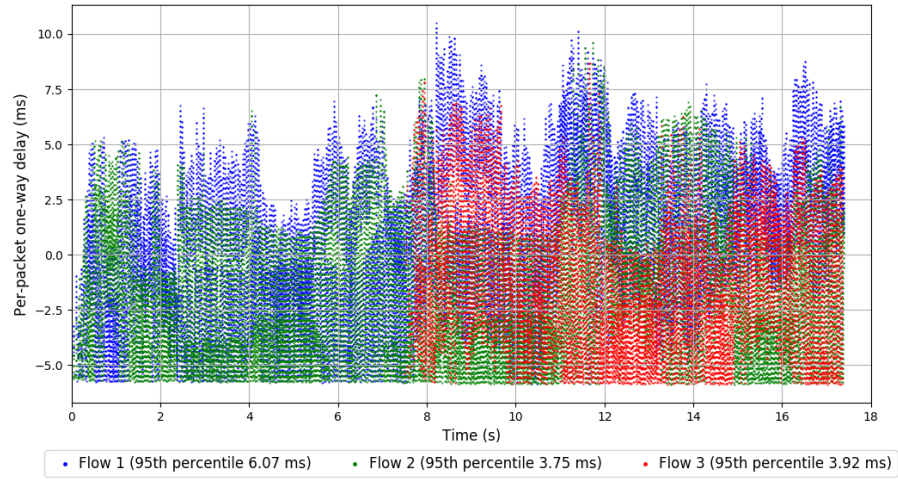
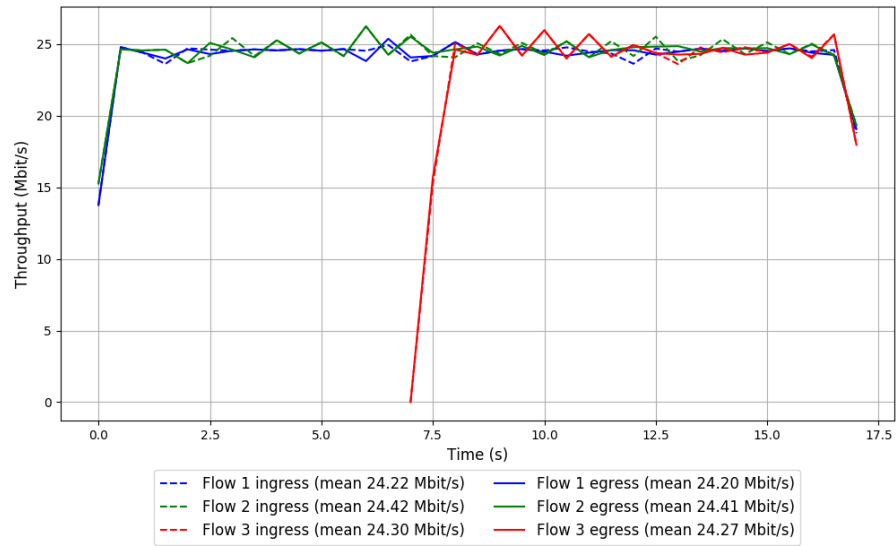
Start at: 2017-11-16 13:54:43

End at: 2017-11-16 13:55:13

Local clock offset: -0.599 ms

Remote clock offset: -18.775 ms

Run 9: Report of Sprout — Data Link

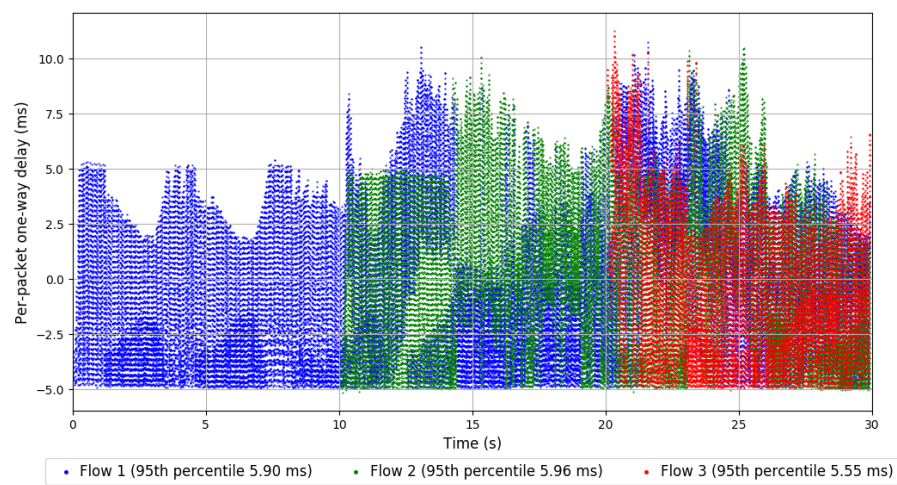
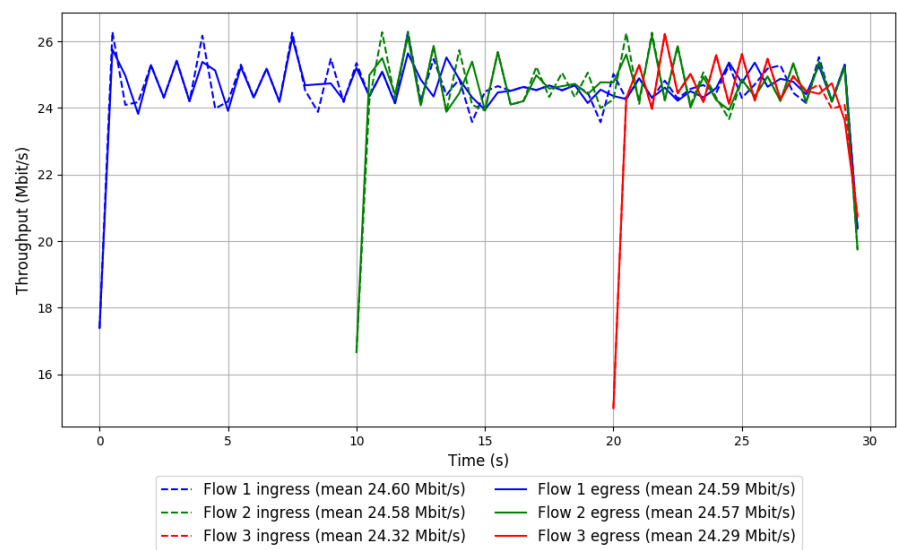


Run 10: Statistics of Sprout

Start at: 2017-11-16 14:15:27
End at: 2017-11-16 14:15:57
Local clock offset: -1.258 ms
Remote clock offset: -17.006 ms

Below is generated by plot.py at 2017-11-16 15:05:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 5.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 5.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 5.960 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 5.551 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

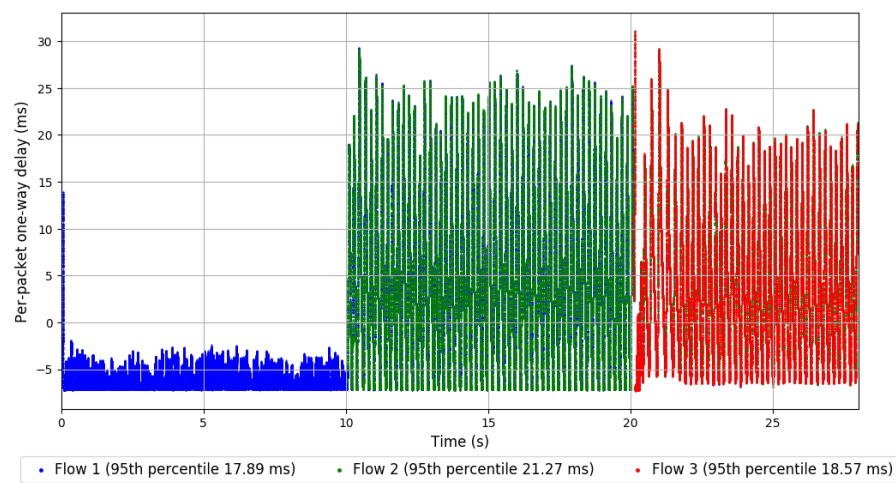
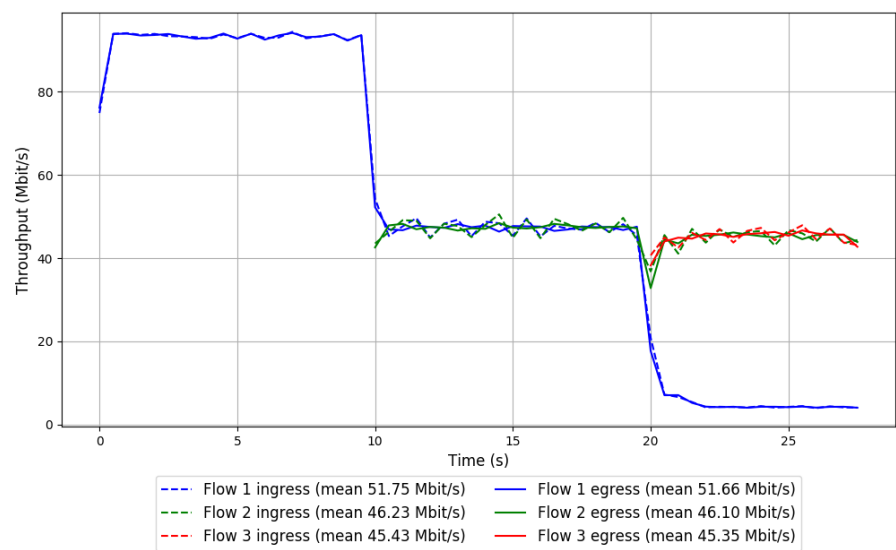


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 11:14:00
End at: 2017-11-16 11:14:30
Local clock offset: 3.137 ms
Remote clock offset: -17.291 ms

# Below is generated by plot.py at 2017-11-16 15:07:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 19.468 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 17.895 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: 21.269 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 45.35 Mbit/s
95th percentile per-packet one-way delay: 18.571 ms
Loss rate: 0.20%
```

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

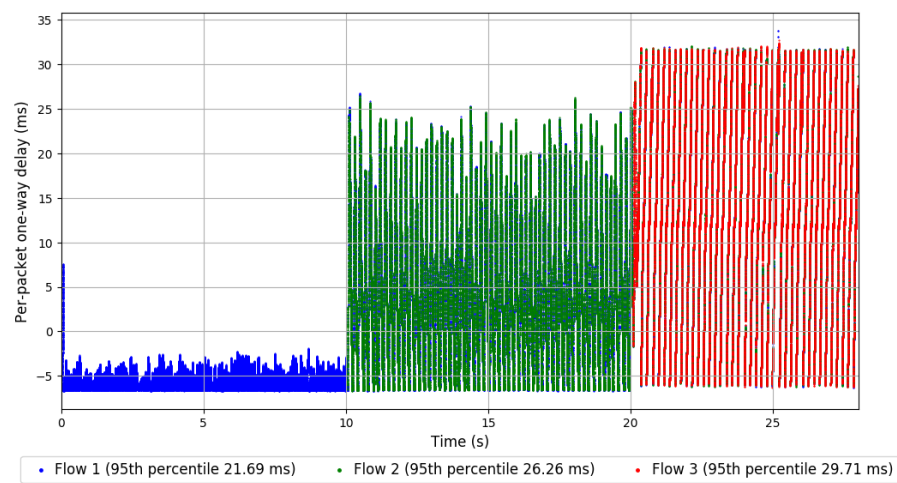
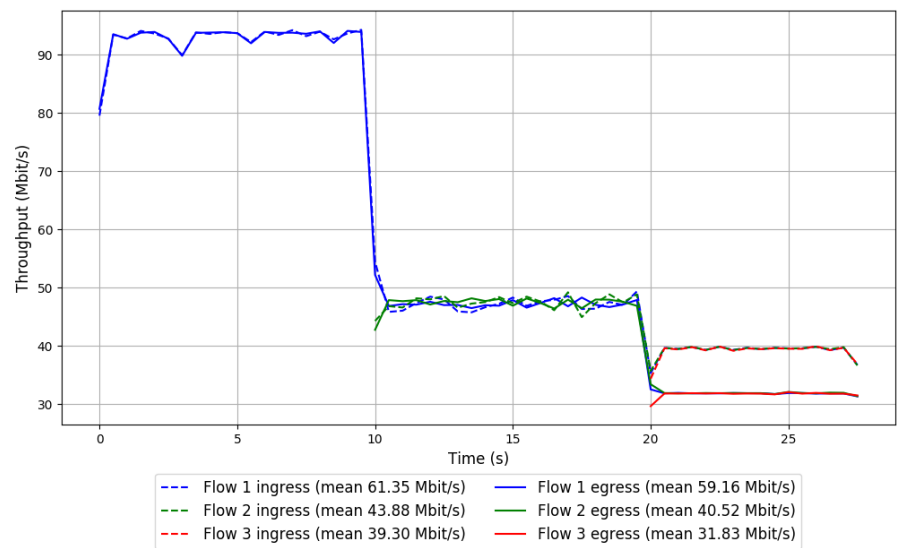


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 11:32:33
End at: 2017-11-16 11:33:03
Local clock offset: 5.064 ms
Remote clock offset: -13.943 ms

Below is generated by plot.py at 2017-11-16 15:07:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 25.191 ms
Loss rate: 6.29%
-- Flow 1:
Average throughput: 59.16 Mbit/s
95th percentile per-packet one-way delay: 21.689 ms
Loss rate: 3.45%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 26.258 ms
Loss rate: 7.48%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 29.708 ms
Loss rate: 18.90%

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



Run 3: Statistics of TaoVA-100x

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

End at: 2017-11-16 11:52:42

Local clock offset: 2.815 ms

Remote clock offset: 2.264 ms

Below is generated by plot.py at 2017-11-16 15:07:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 44.514 ms

Loss rate: 6.42%

-- Flow 1:

Average throughput: 58.42 Mbit/s

95th percentile per-packet one-way delay: 41.397 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 40.86 Mbit/s

95th percentile per-packet one-way delay: 45.443 ms

Loss rate: 7.55%

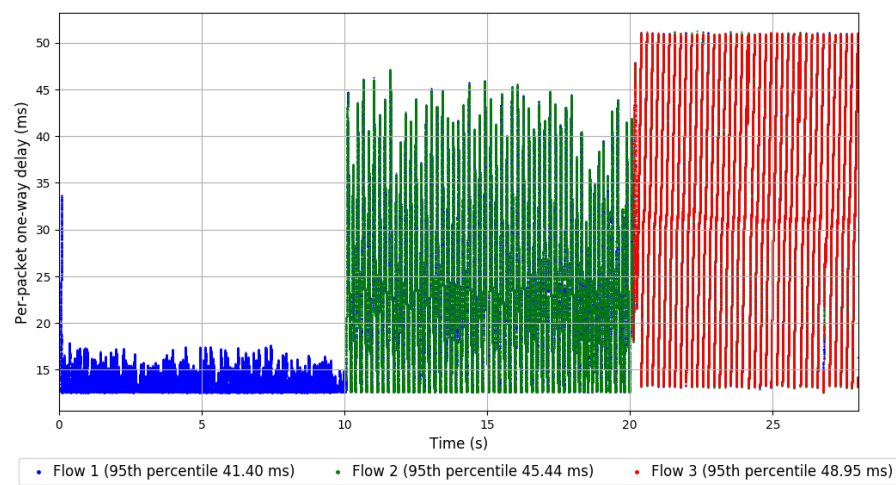
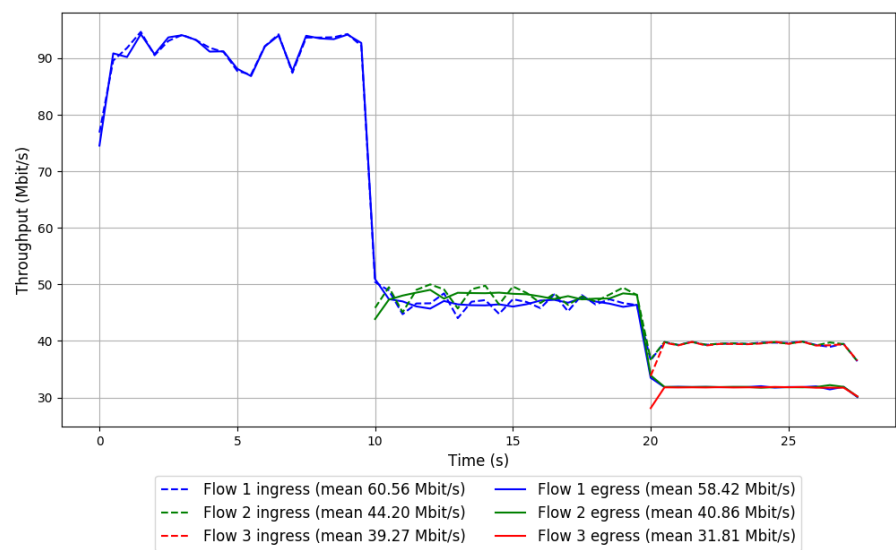
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 48.951 ms

Loss rate: 19.23%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 12:11:56

End at: 2017-11-16 12:12:26

Local clock offset: 3.1 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2017-11-16 15:07:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.41 Mbit/s

95th percentile per-packet one-way delay: 43.984 ms

Loss rate: 6.46%

-- Flow 1:

Average throughput: 58.37 Mbit/s

95th percentile per-packet one-way delay: 40.651 ms

Loss rate: 3.55%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 45.012 ms

Loss rate: 7.64%

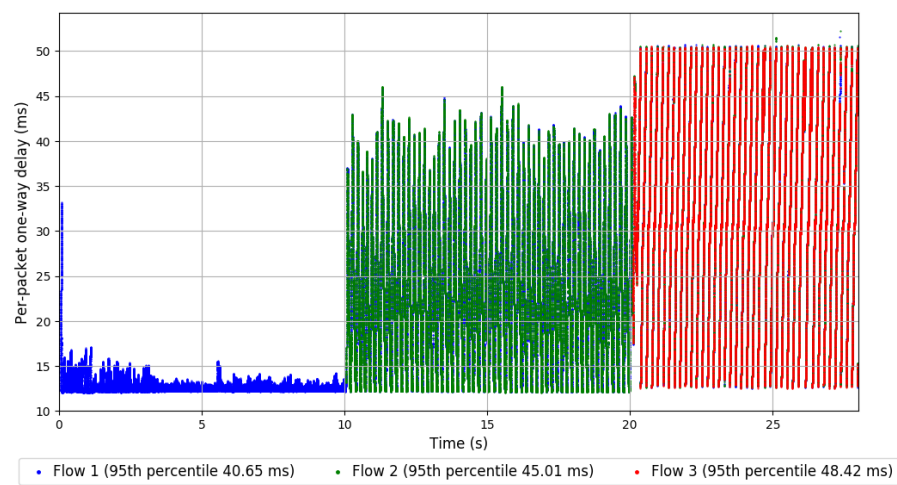
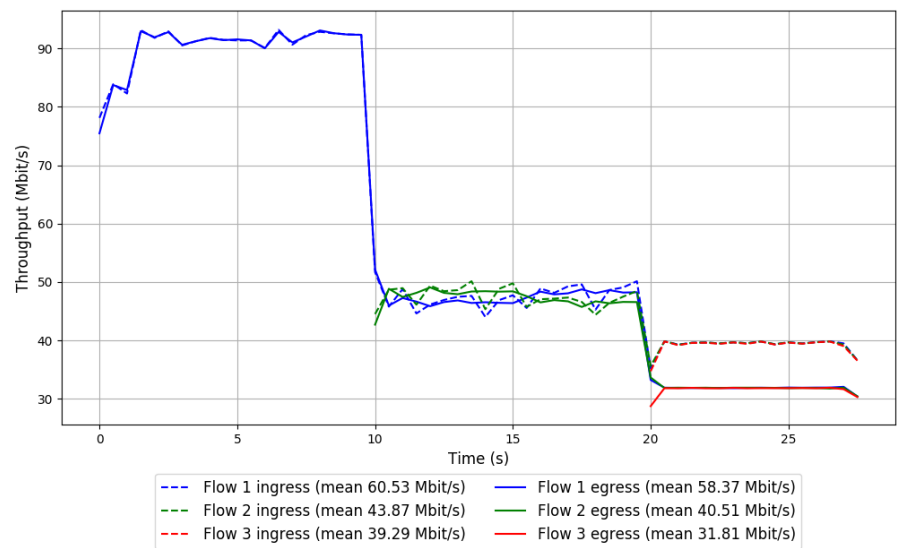
-- Flow 3:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 48.425 ms

Loss rate: 19.25%

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

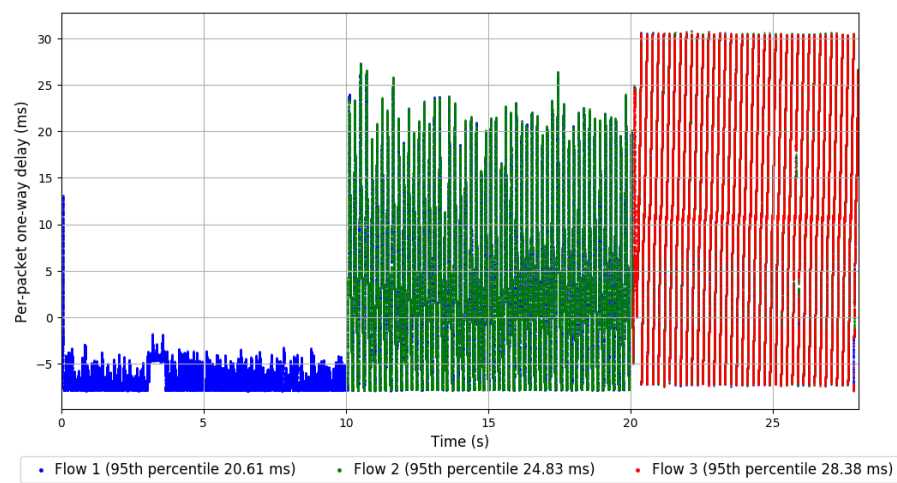
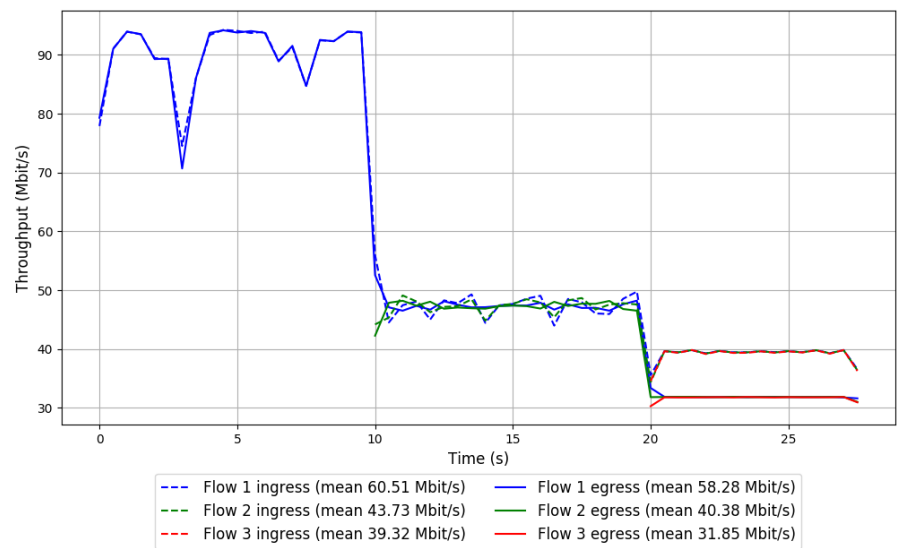


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 12:32:19
End at: 2017-11-16 12:32:49
Local clock offset: -0.239 ms
Remote clock offset: -22.551 ms

Below is generated by plot.py at 2017-11-16 15:07:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 23.734 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 20.607 ms
Loss rate: 3.57%
-- Flow 2:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 24.832 ms
Loss rate: 7.48%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 28.376 ms
Loss rate: 18.84%

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

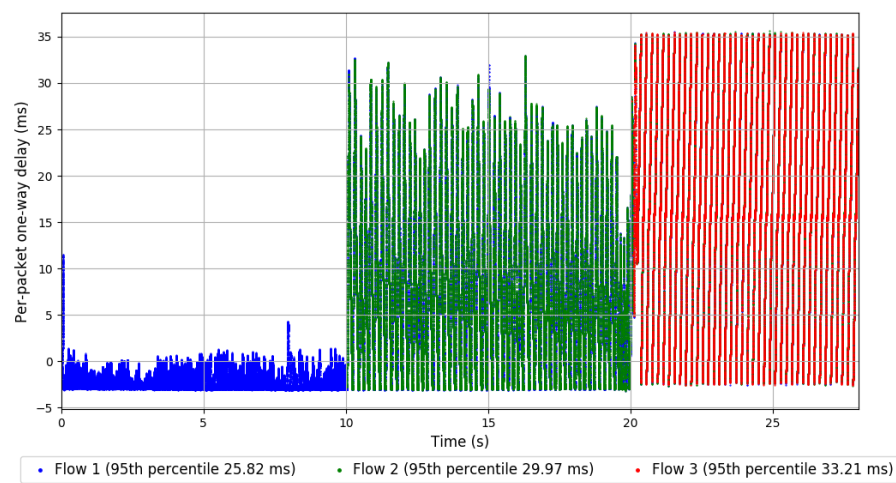
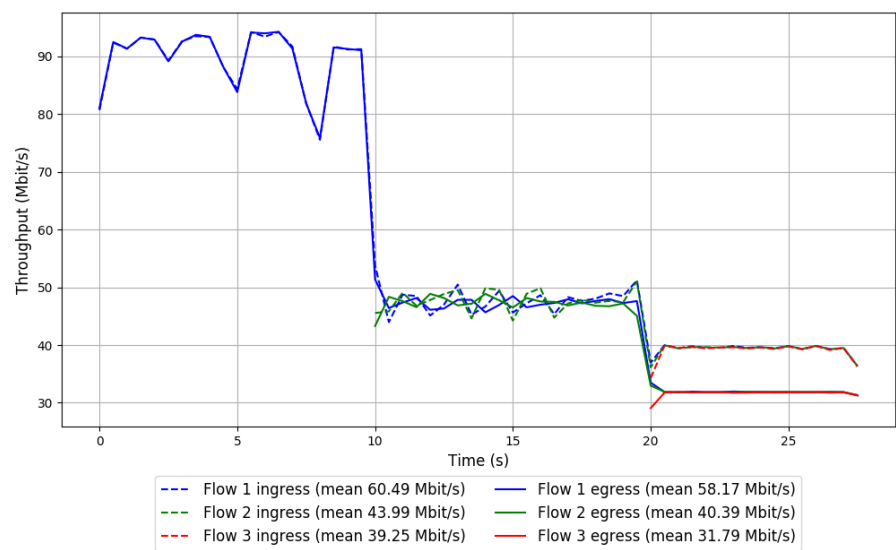


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 12:53:08
End at: 2017-11-16 12:53:38
Local clock offset: 0.742 ms
Remote clock offset: -16.46 ms

Below is generated by plot.py at 2017-11-16 15:07:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 29.008 ms
Loss rate: 6.65%
-- Flow 1:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 25.817 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 29.971 ms
Loss rate: 8.03%
-- Flow 3:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 33.213 ms
Loss rate: 18.98%

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

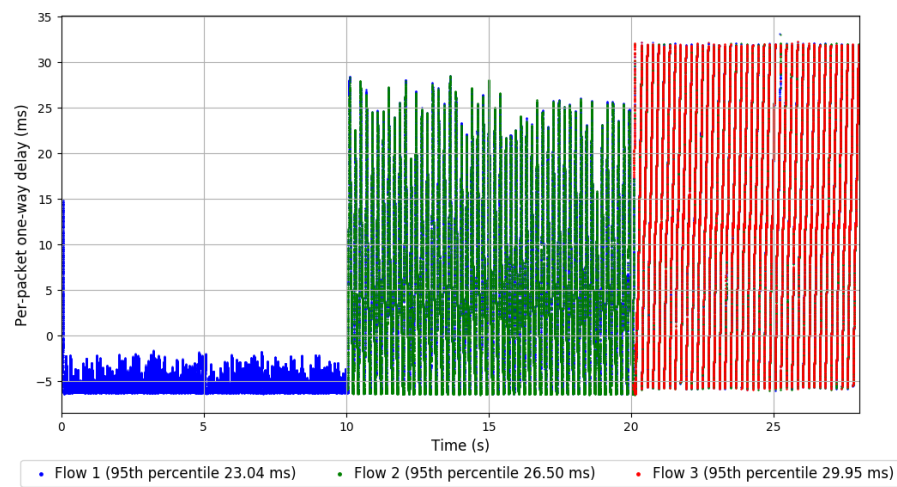
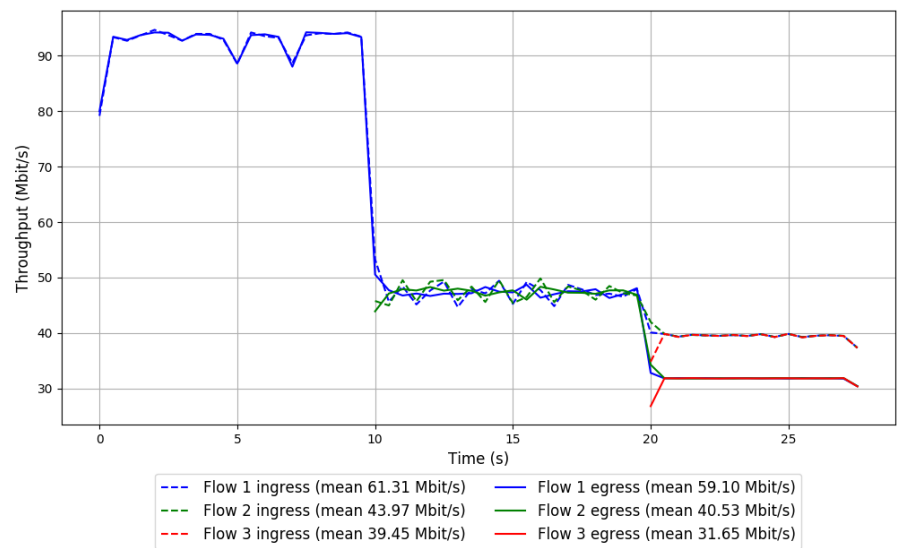


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 13:13:05
End at: 2017-11-16 13:13:35
Local clock offset: 2.801 ms
Remote clock offset: -17.999 ms

Below is generated by plot.py at 2017-11-16 15:08:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 25.614 ms
Loss rate: 6.53%
-- Flow 1:
Average throughput: 59.10 Mbit/s
95th percentile per-packet one-way delay: 23.044 ms
Loss rate: 3.57%
-- Flow 2:
Average throughput: 40.53 Mbit/s
95th percentile per-packet one-way delay: 26.499 ms
Loss rate: 7.77%
-- Flow 3:
Average throughput: 31.65 Mbit/s
95th percentile per-packet one-way delay: 29.945 ms
Loss rate: 19.64%

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

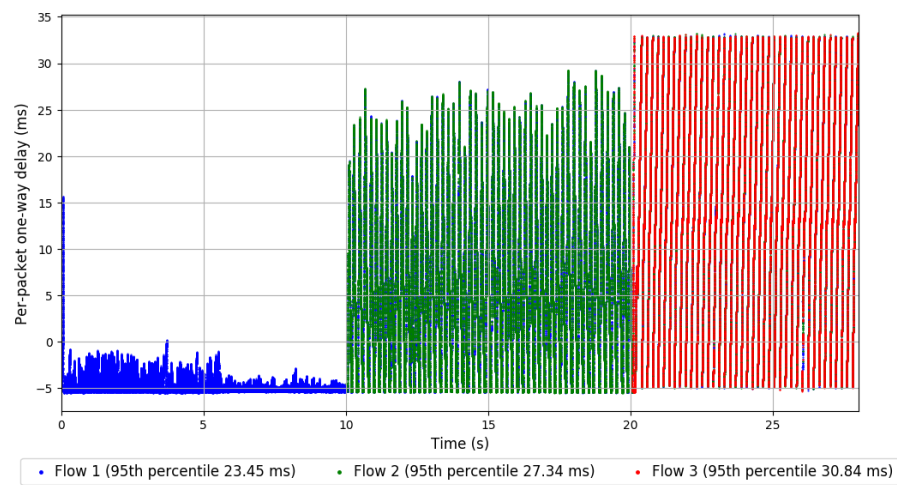
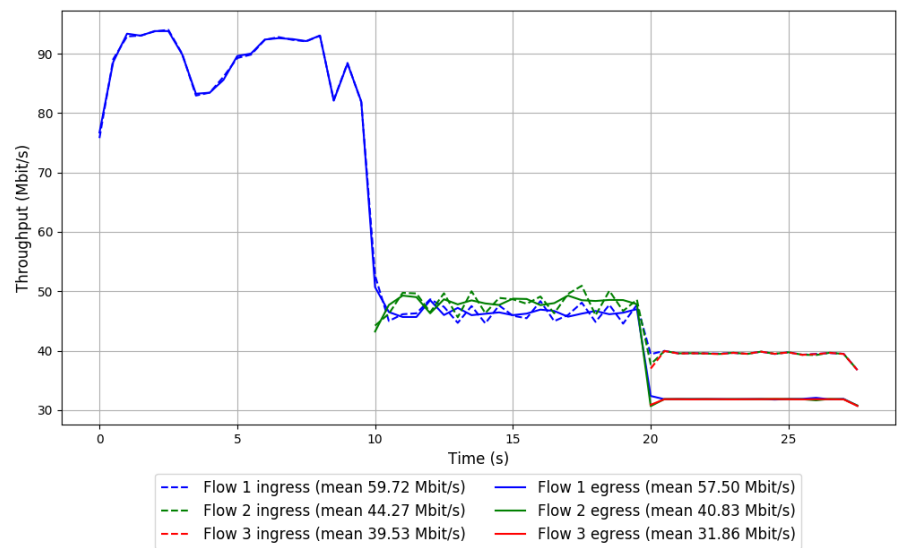


Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 13:35:31
End at: 2017-11-16 13:36:01
Local clock offset: 2.148 ms
Remote clock offset: -17.481 ms

Below is generated by plot.py at 2017-11-16 15:08:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 26.431 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 23.445 ms
Loss rate: 3.64%
-- Flow 2:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 27.342 ms
Loss rate: 7.65%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 30.844 ms
Loss rate: 19.20%

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

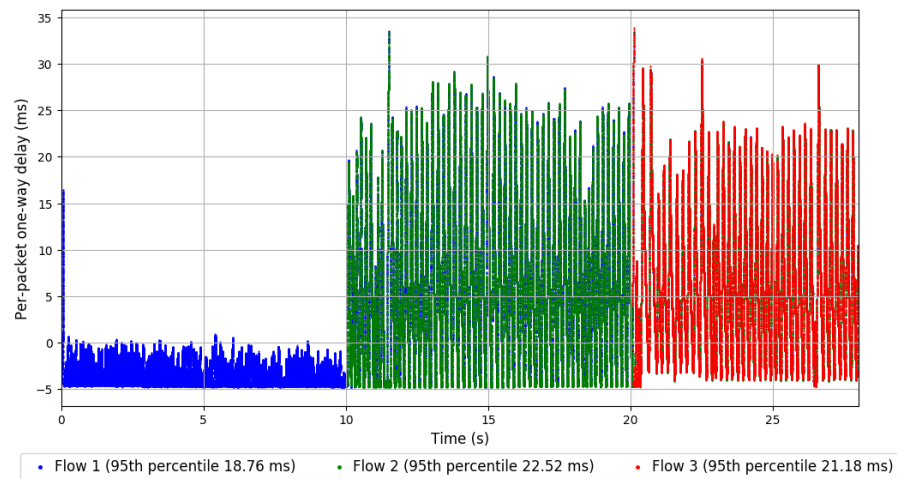
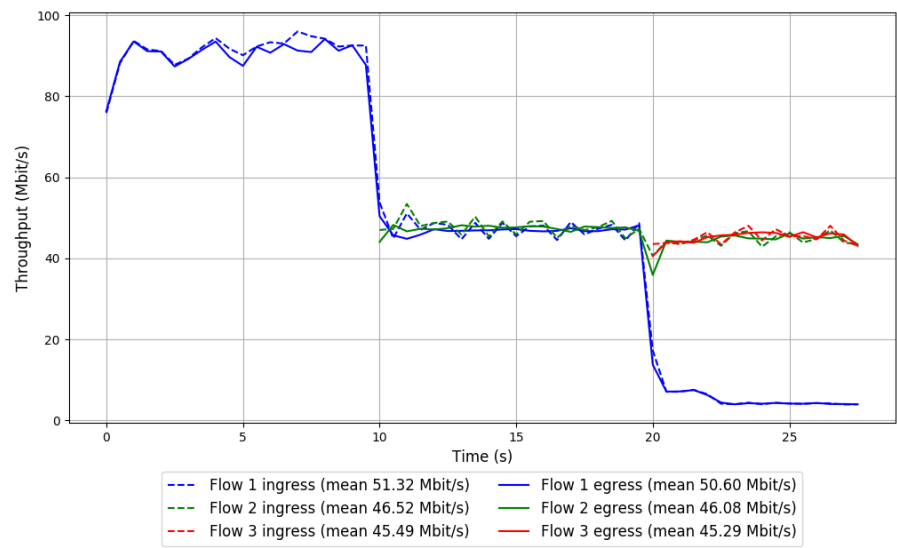


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 13:57:26
End at: 2017-11-16 13:57:56
Local clock offset: -0.086 ms
Remote clock offset: -16.991 ms

Below is generated by plot.py at 2017-11-16 15:09:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 21.014 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 18.759 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 46.08 Mbit/s
95th percentile per-packet one-way delay: 22.525 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 21.175 ms
Loss rate: 0.31%

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

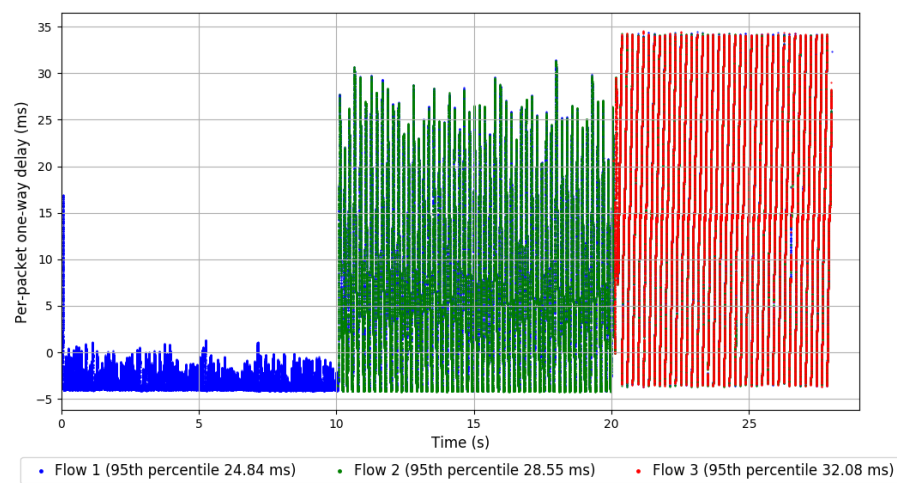
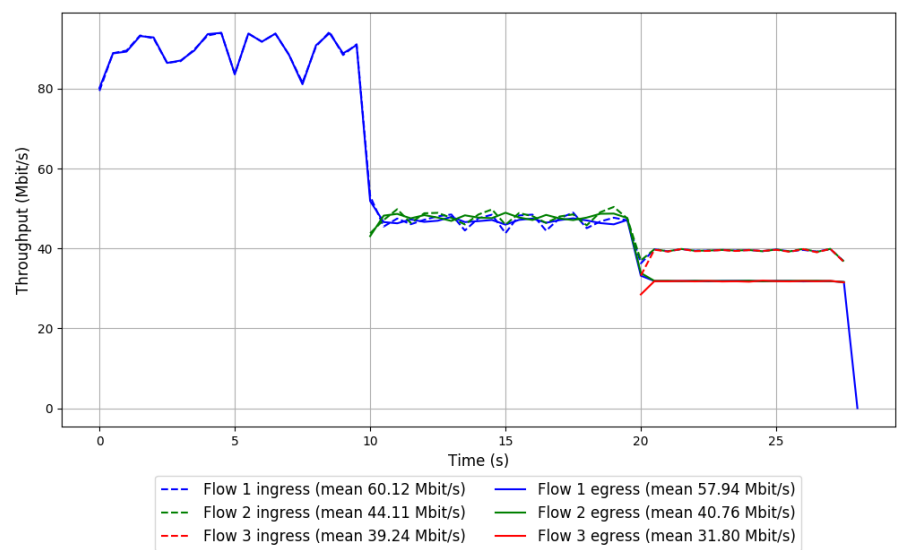


Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 14:18:13
End at: 2017-11-16 14:18:43
Local clock offset: -2.212 ms
Remote clock offset: -16.863 ms

Below is generated by plot.py at 2017-11-16 15:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 27.625 ms
Loss rate: 6.34%
-- Flow 1:
Average throughput: 57.94 Mbit/s
95th percentile per-packet one-way delay: 24.835 ms
Loss rate: 3.50%
-- Flow 2:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 28.548 ms
Loss rate: 7.43%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 32.076 ms
Loss rate: 18.87%

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

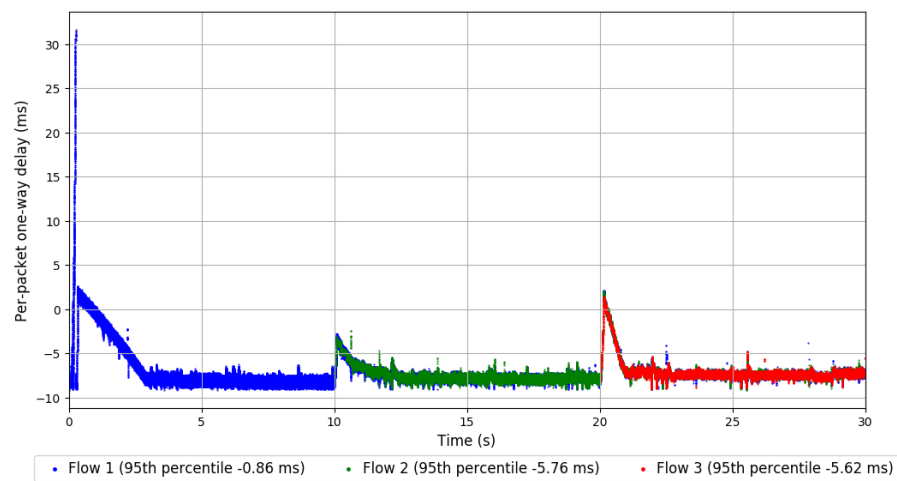
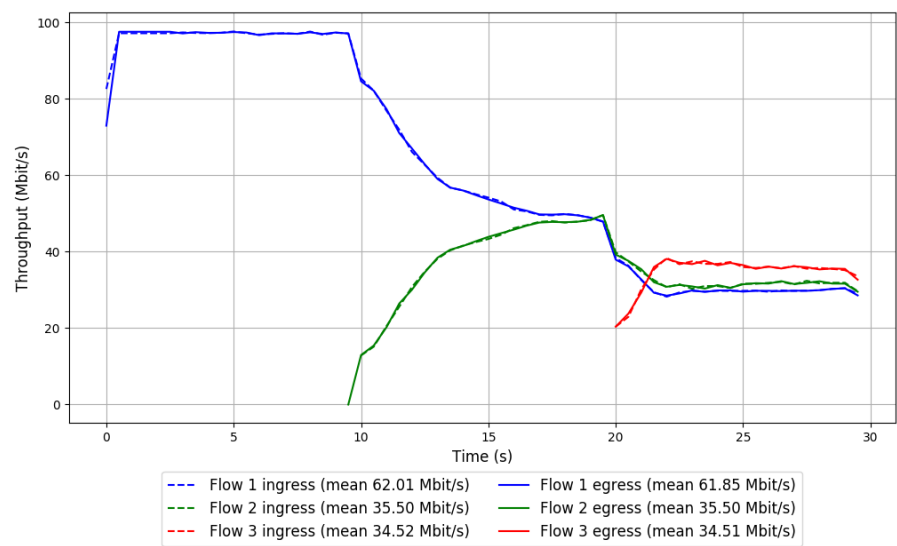


Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 11:08:52
End at: 2017-11-16 11:09:22
Local clock offset: 3.368 ms
Remote clock offset: -19.135 ms

Below is generated by plot.py at 2017-11-16 15:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: -1.930 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 61.85 Mbit/s
95th percentile per-packet one-way delay: -0.857 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: -5.760 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: -5.621 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

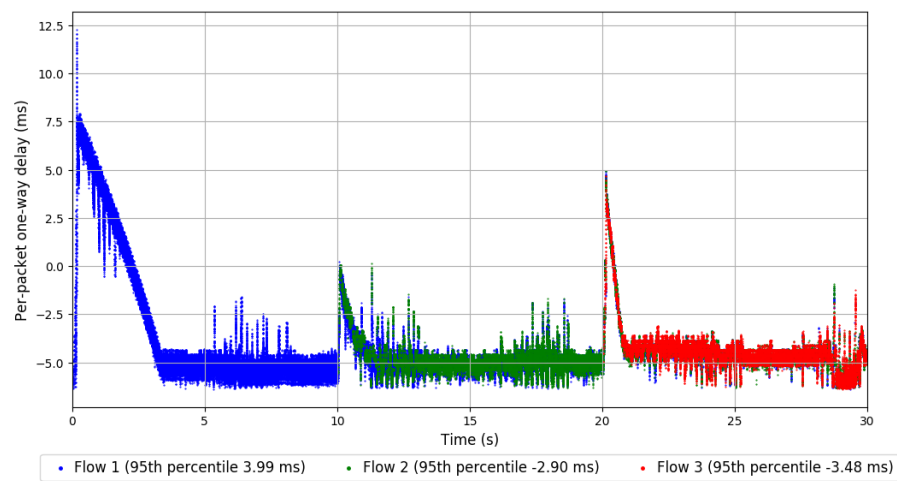
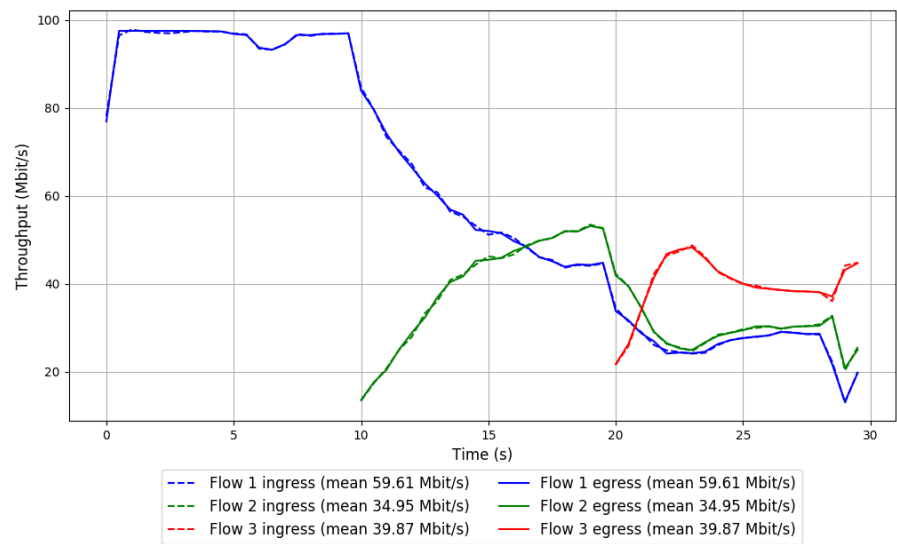


Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 11:27:21
End at: 2017-11-16 11:27:51
Local clock offset: 1.678 ms
Remote clock offset: -17.201 ms

Below is generated by plot.py at 2017-11-16 15:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 3.993 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: -2.900 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: -3.483 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 11:46:34

End at: 2017-11-16 11:47:04

Local clock offset: 3.836 ms

Remote clock offset: 3.867 ms

Below is generated by plot.py at 2017-11-16 15:09:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 22.106 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 22.955 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 18.333 ms

Loss rate: 0.00%

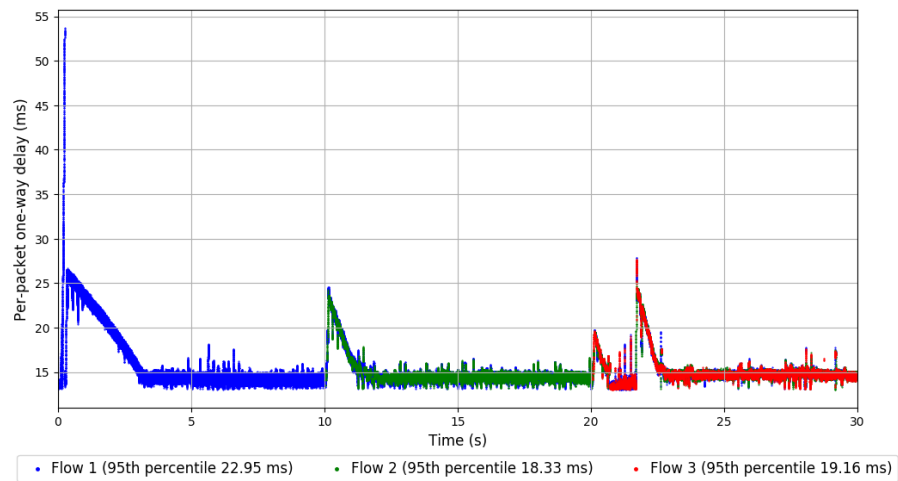
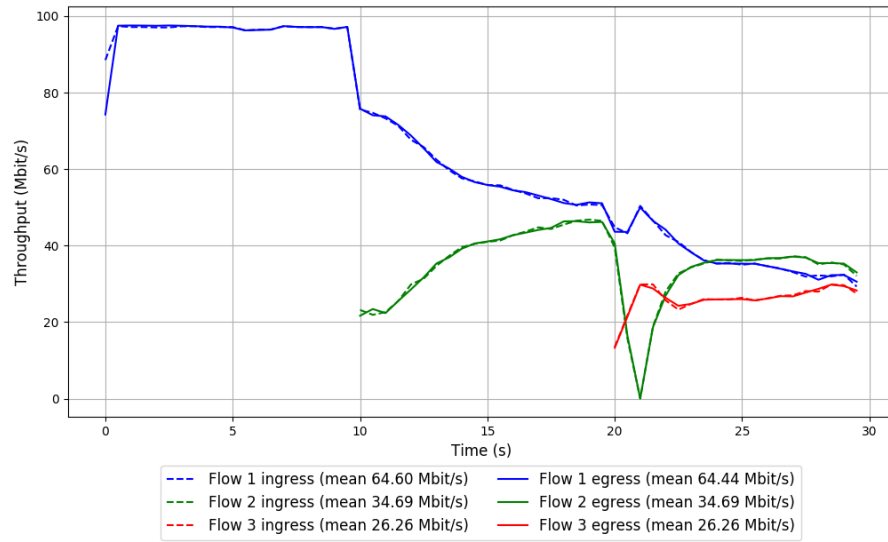
-- Flow 3:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 19.157 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 12:06:34

End at: 2017-11-16 12:07:04

Local clock offset: 4.08 ms

Remote clock offset: 2.039 ms

Below is generated by plot.py at 2017-11-16 15:09:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.45 Mbit/s

95th percentile per-packet one-way delay: 21.606 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.81 Mbit/s

95th percentile per-packet one-way delay: 23.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.96 Mbit/s

95th percentile per-packet one-way delay: 15.804 ms

Loss rate: 0.01%

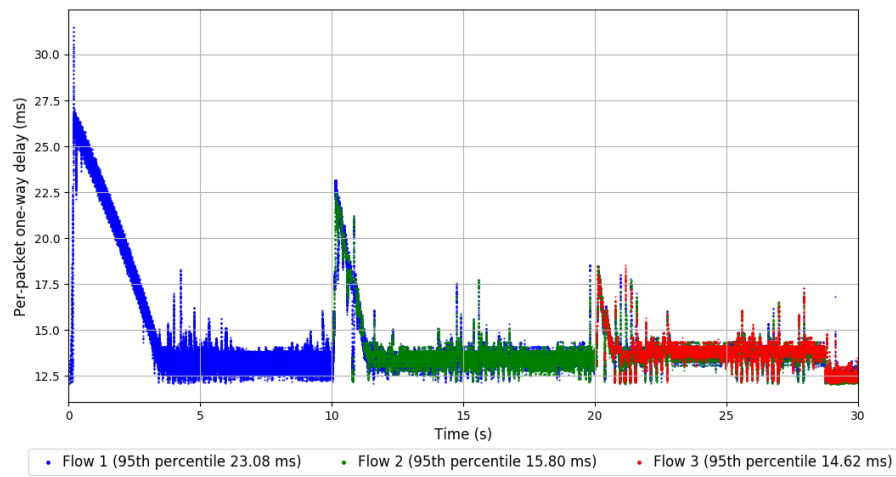
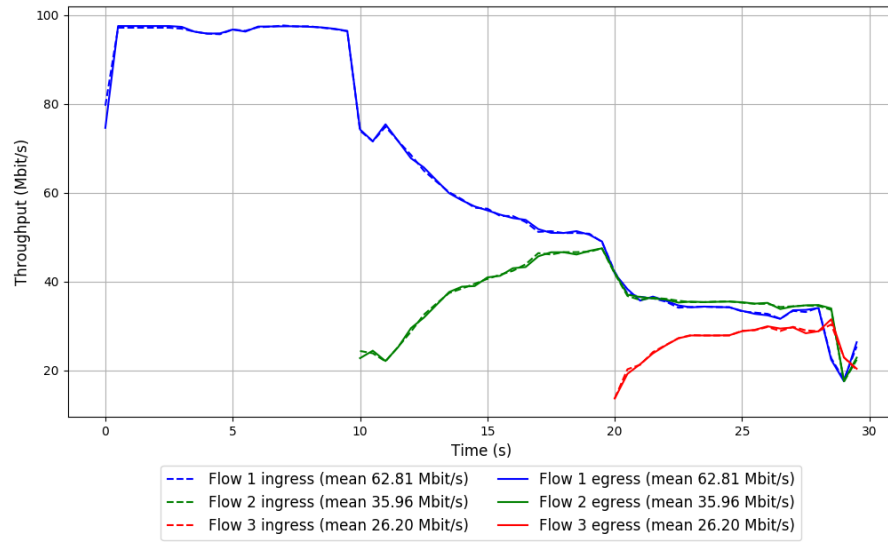
-- Flow 3:

Average throughput: 26.20 Mbit/s

95th percentile per-packet one-way delay: 14.621 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

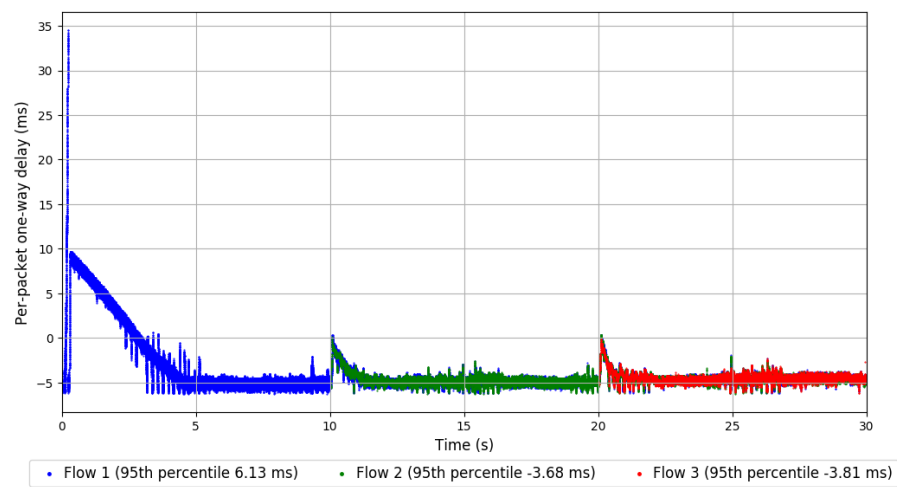
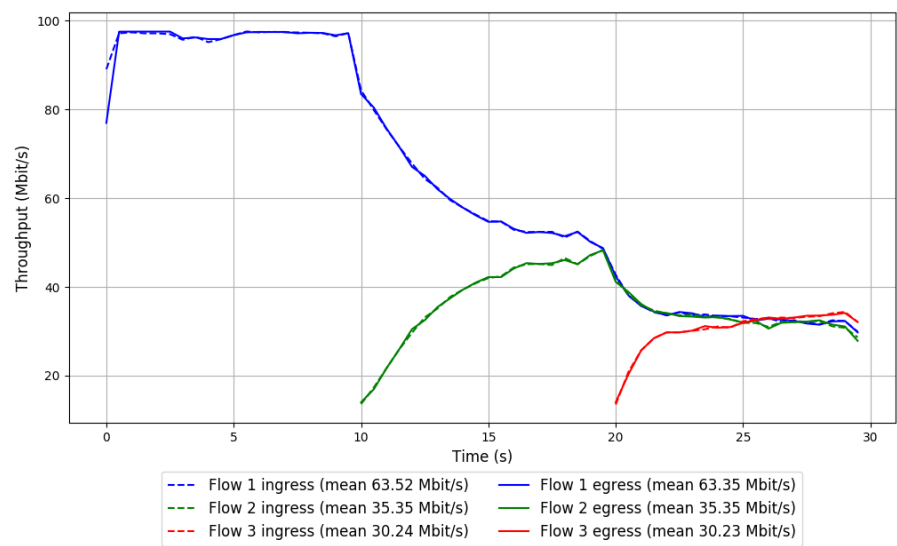


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 12:26:56
End at: 2017-11-16 12:27:26
Local clock offset: 4.543 ms
Remote clock offset: -16.48 ms

Below is generated by plot.py at 2017-11-16 15:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 4.281 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 6.135 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: -3.681 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: -3.815 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

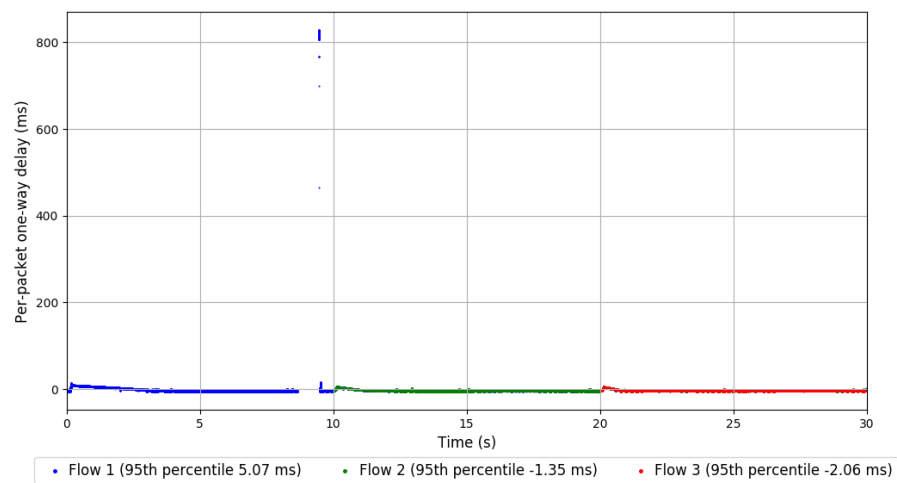
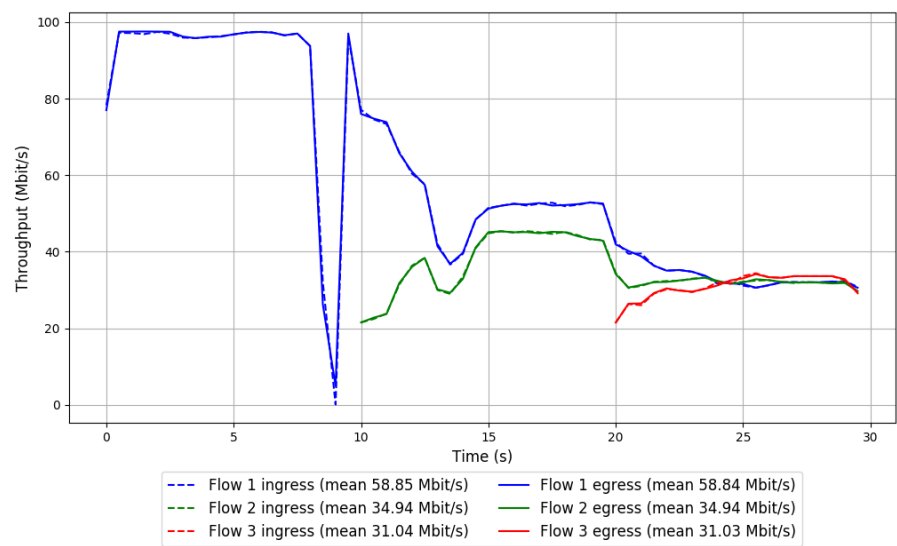


Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 12:47:39
End at: 2017-11-16 12:48:09
Local clock offset: 3.287 ms
Remote clock offset: -17.088 ms

Below is generated by plot.py at 2017-11-16 15:09:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 3.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 5.071 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: -1.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: -2.065 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

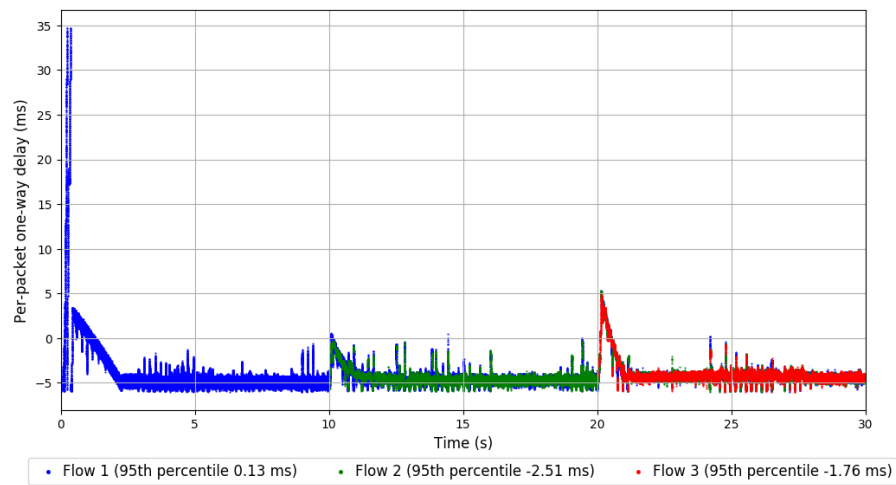
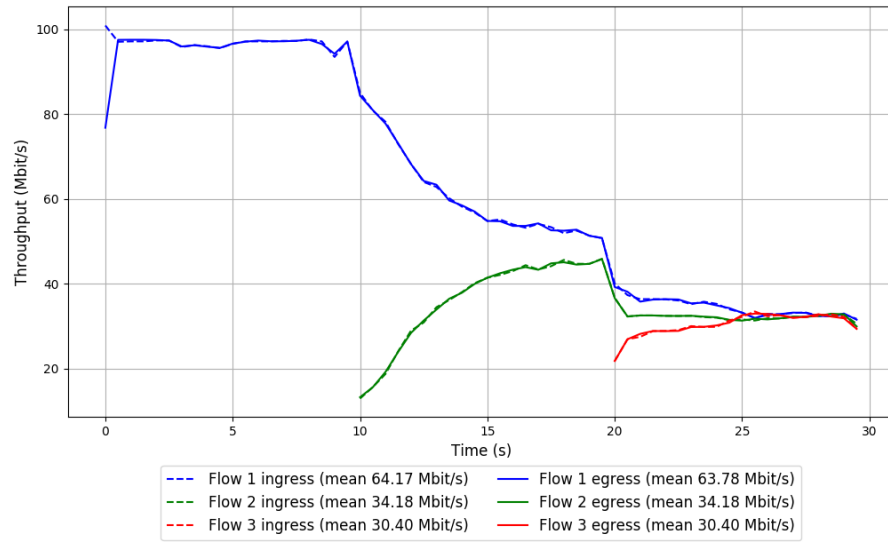


Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 13:07:37
End at: 2017-11-16 13:08:07
Local clock offset: 1.791 ms
Remote clock offset: -18.618 ms

Below is generated by plot.py at 2017-11-16 15:10:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: -0.559 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 0.133 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: -2.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: -1.764 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

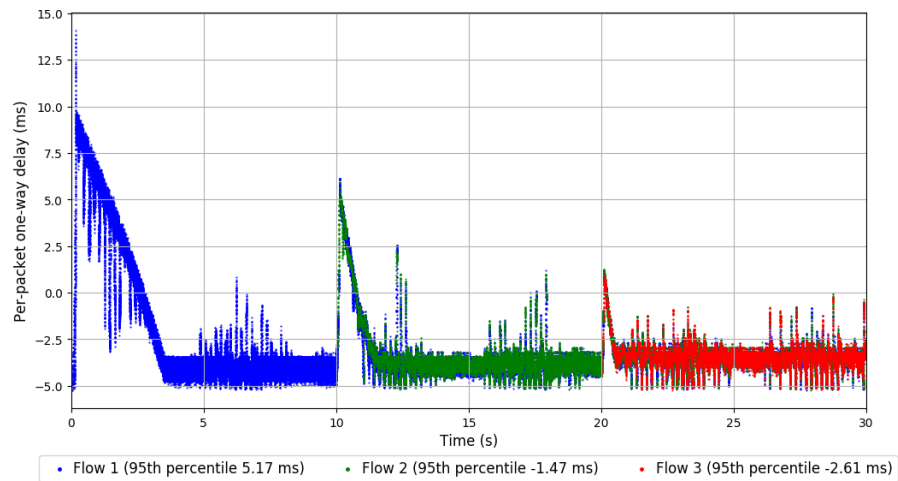
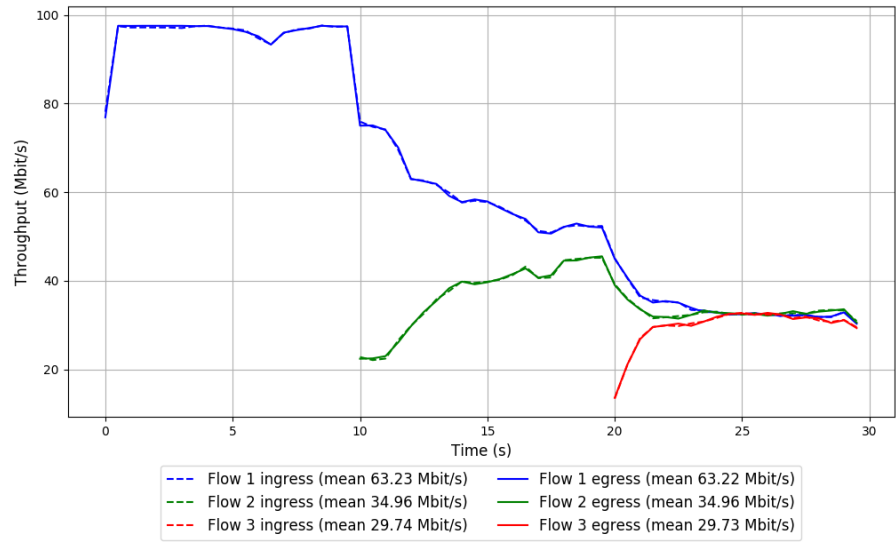


Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 13:28:58
End at: 2017-11-16 13:29:28
Local clock offset: 2.544 ms
Remote clock offset: -16.914 ms

Below is generated by plot.py at 2017-11-16 15:10:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.22 Mbit/s
95th percentile per-packet one-way delay: 5.172 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: -1.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: -2.613 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

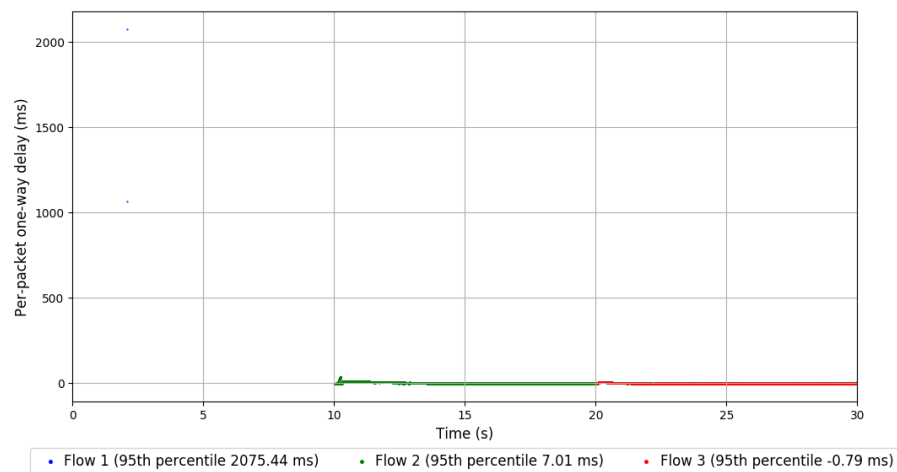
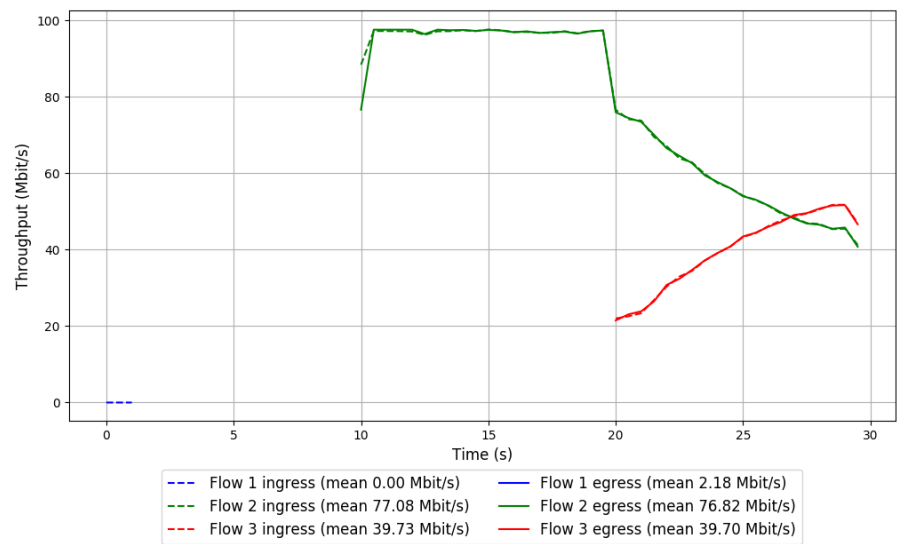


Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 13:51:56
End at: 2017-11-16 13:52:26
Local clock offset: 1.035 ms
Remote clock offset: -16.469 ms

Below is generated by plot.py at 2017-11-16 15:10:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.13 Mbit/s
95th percentile per-packet one-way delay: 6.292 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 2075.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.82 Mbit/s
95th percentile per-packet one-way delay: 7.011 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: -0.787 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 14:12:51
End at: 2017-11-16 14:13:21
Local clock offset: -1.731 ms
Remote clock offset: -18.731 ms

Run 10: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Verus

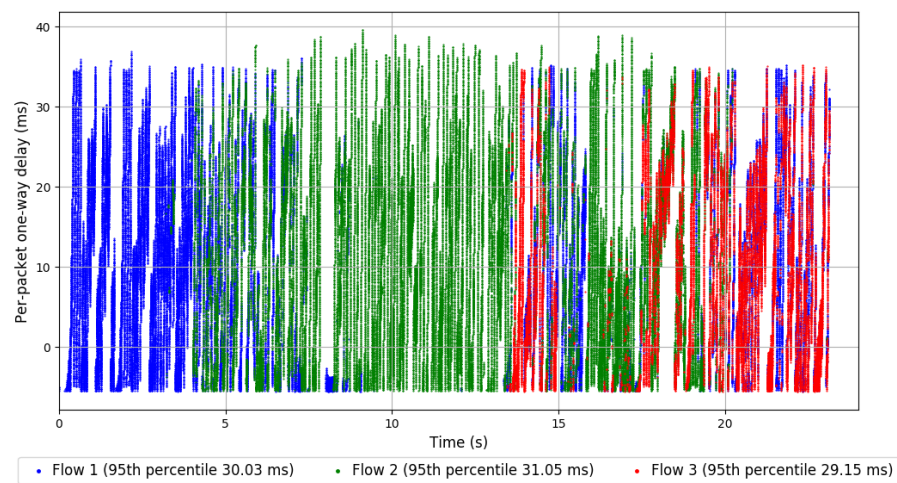
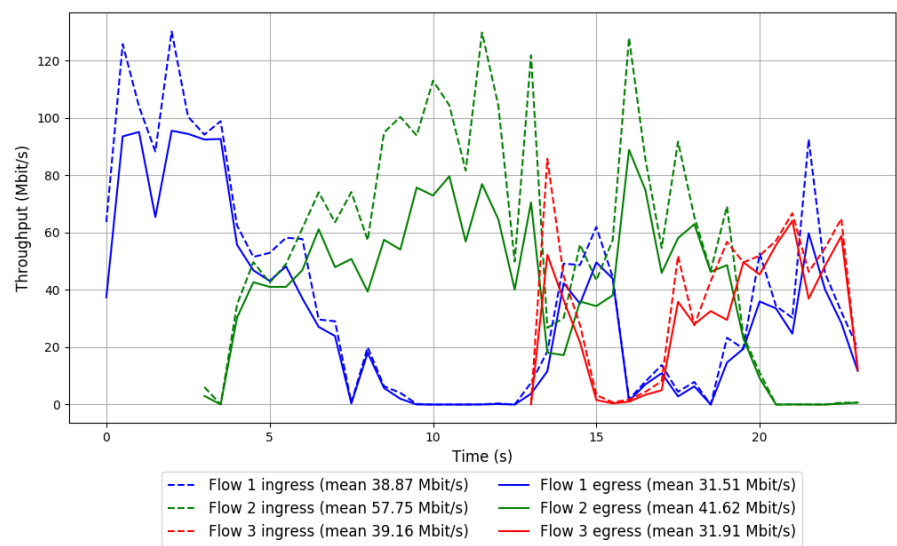
Start at: 2017-11-16 11:15:29

End at: 2017-11-16 11:15:59

Local clock offset: 1.971 ms

Remote clock offset: -16.677 ms

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 11:34:08

End at: 2017-11-16 11:34:38

Local clock offset: 2.332 ms

Remote clock offset: 4.024 ms

Below is generated by plot.py at 2017-11-16 15:10:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 49.681 ms

Loss rate: 32.62%

-- Flow 1:

Average throughput: 52.24 Mbit/s

95th percentile per-packet one-way delay: 49.686 ms

Loss rate: 35.13%

-- Flow 2:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 48.828 ms

Loss rate: 23.85%

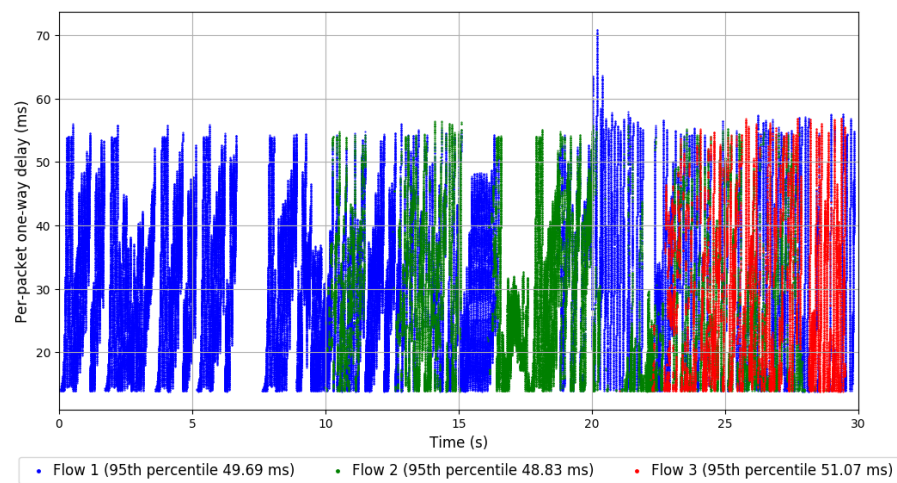
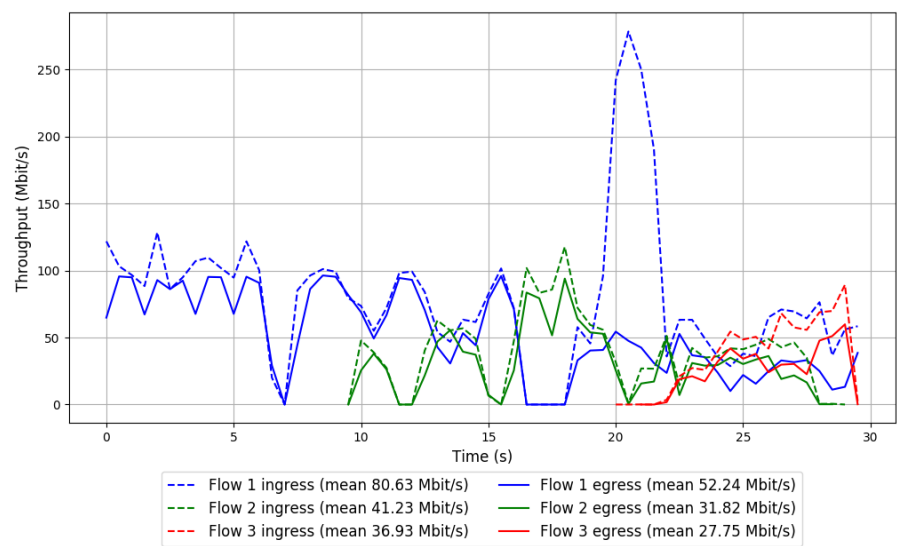
-- Flow 3:

Average throughput: 27.75 Mbit/s

95th percentile per-packet one-way delay: 51.066 ms

Loss rate: 35.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 11:53:54

End at: 2017-11-16 11:54:24

Local clock offset: 4.91 ms

Remote clock offset: 2.911 ms

Below is generated by plot.py at 2017-11-16 15:11:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 49.797 ms

Loss rate: 61.55%

-- Flow 1:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 50.504 ms

Loss rate: 65.77%

-- Flow 2:

Average throughput: 29.38 Mbit/s

95th percentile per-packet one-way delay: 48.881 ms

Loss rate: 51.31%

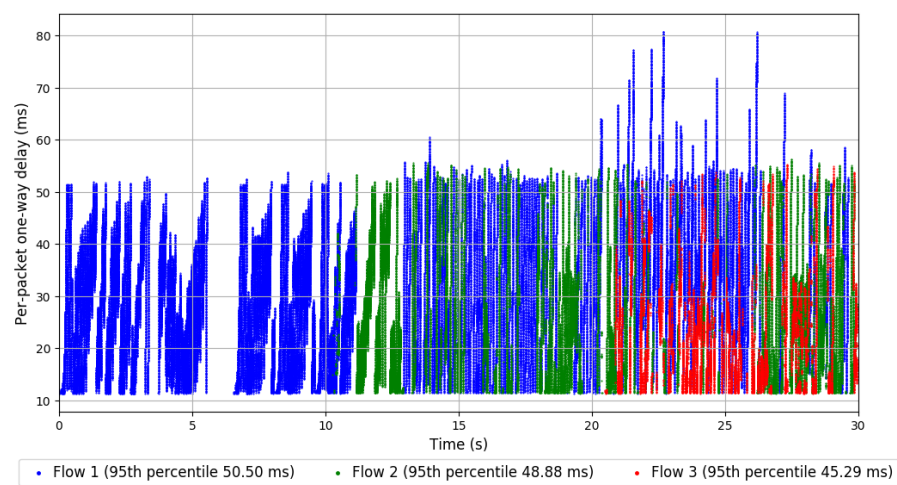
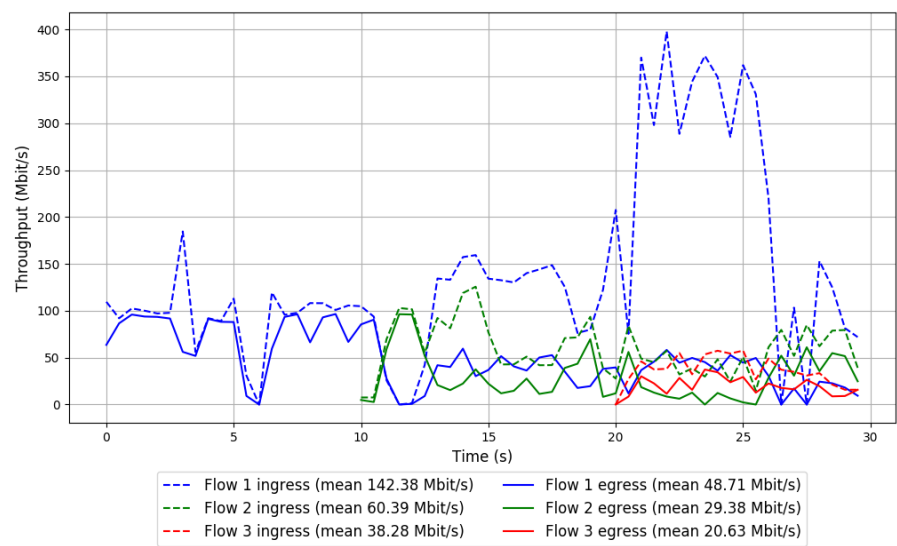
-- Flow 3:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 45.293 ms

Loss rate: 46.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 12:13:50

End at: 2017-11-16 12:14:20

Local clock offset: 2.567 ms

Remote clock offset: 0.504 ms

Below is generated by plot.py at 2017-11-16 15:11:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.73 Mbit/s

95th percentile per-packet one-way delay: 47.916 ms

Loss rate: 26.33%

-- Flow 1:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 46.730 ms

Loss rate: 11.95%

-- Flow 2:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 49.917 ms

Loss rate: 49.70%

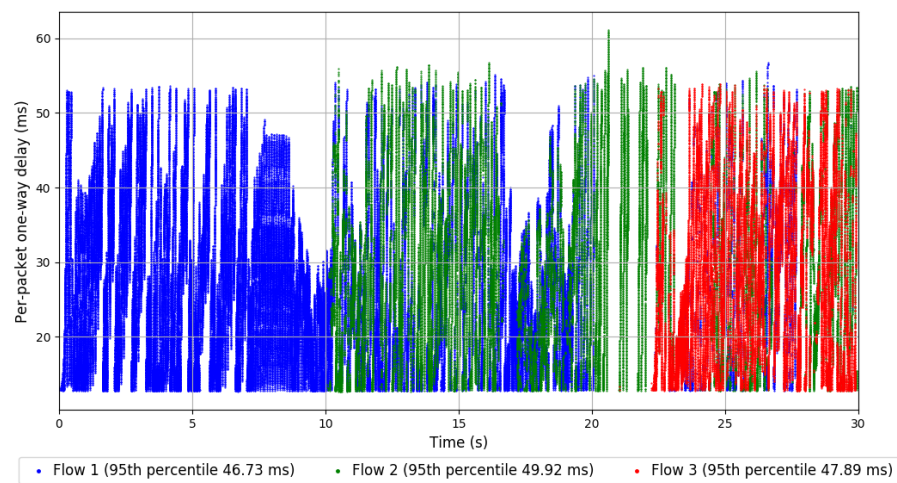
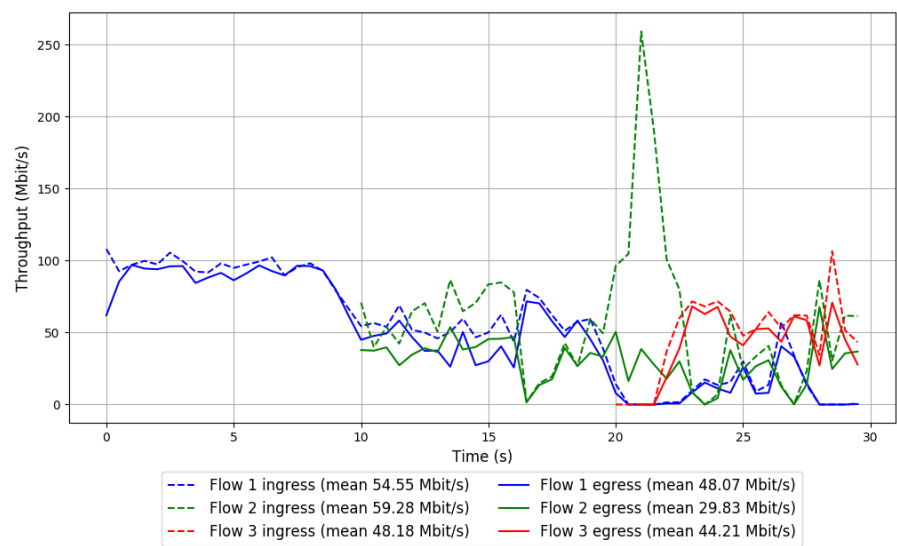
-- Flow 3:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 47.890 ms

Loss rate: 17.42%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 12:34:00

End at: 2017-11-16 12:34:30

Local clock offset: 2.193 ms

Remote clock offset: -17.5 ms

Below is generated by plot.py at 2017-11-16 15:11:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.00 Mbit/s

95th percentile per-packet one-way delay: 30.187 ms

Loss rate: 25.26%

-- Flow 1:

Average throughput: 50.37 Mbit/s

95th percentile per-packet one-way delay: 28.197 ms

Loss rate: 11.44%

-- Flow 2:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 32.492 ms

Loss rate: 43.09%

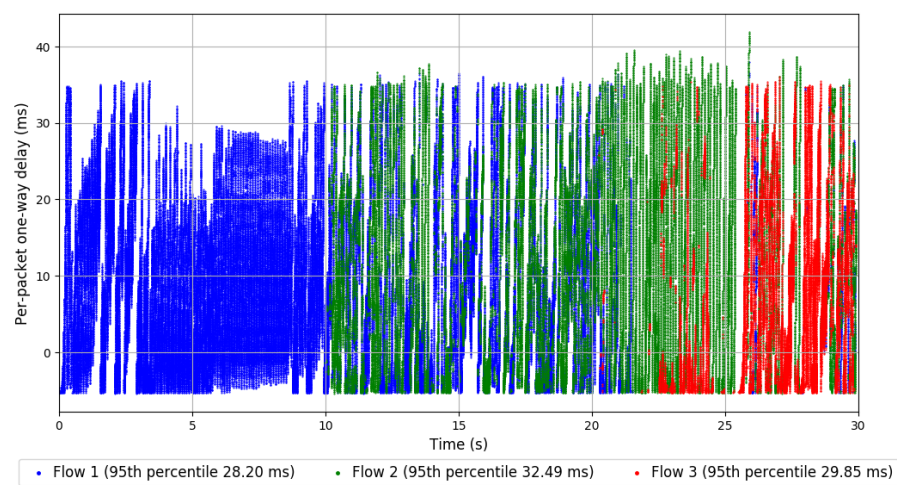
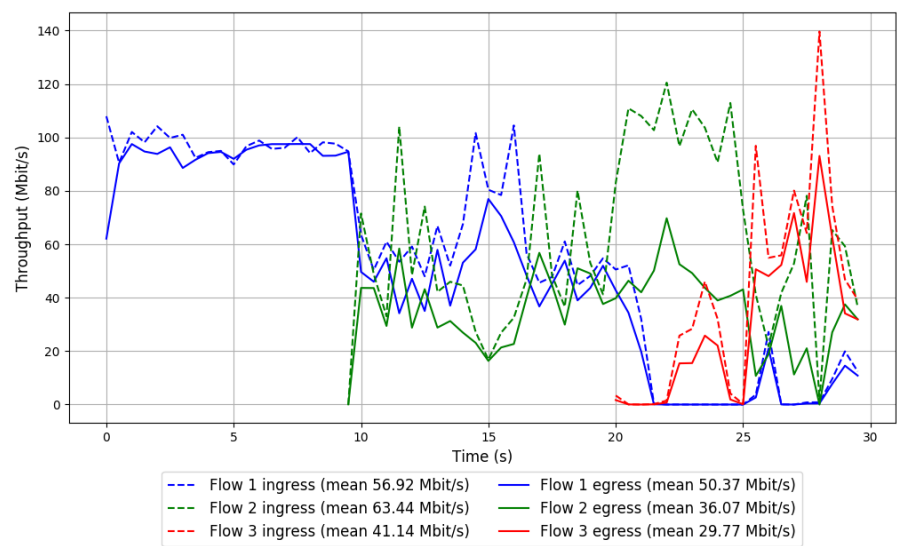
-- Flow 3:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 29.851 ms

Loss rate: 27.73%

Run 5: Report of Verus — Data Link

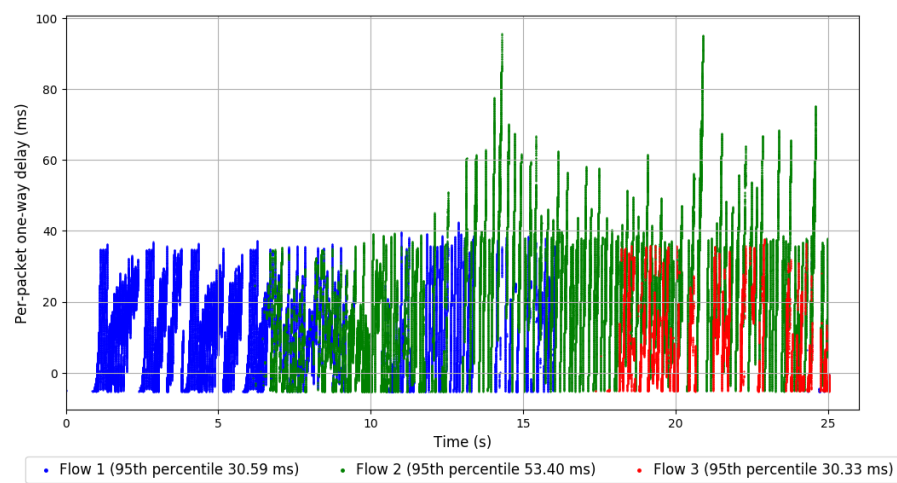
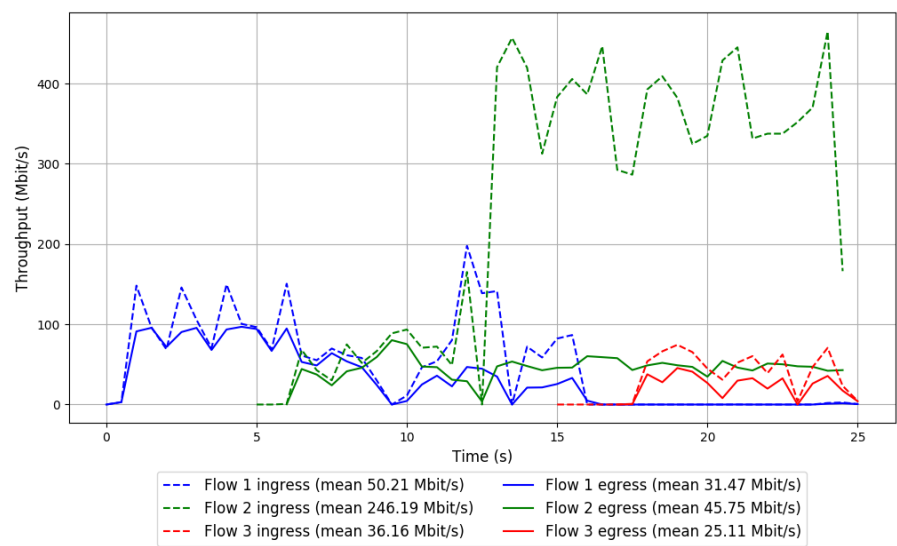


Run 6: Statistics of Verus

Start at: 2017-11-16 12:54:44
End at: 2017-11-16 12:55:14
Local clock offset: 2.515 ms
Remote clock offset: -16.755 ms

Below is generated by plot.py at 2017-11-16 15:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 42.939 ms
Loss rate: 71.60%
-- Flow 1:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 30.586 ms
Loss rate: 37.33%
-- Flow 2:
Average throughput: 45.75 Mbit/s
95th percentile per-packet one-way delay: 53.399 ms
Loss rate: 82.34%
-- Flow 3:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 30.333 ms
Loss rate: 44.92%

Run 6: Report of Verus — Data Link

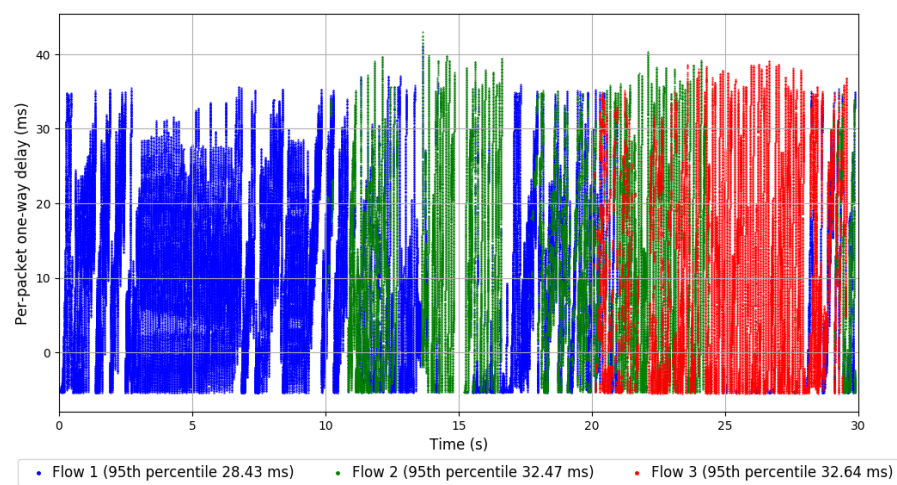
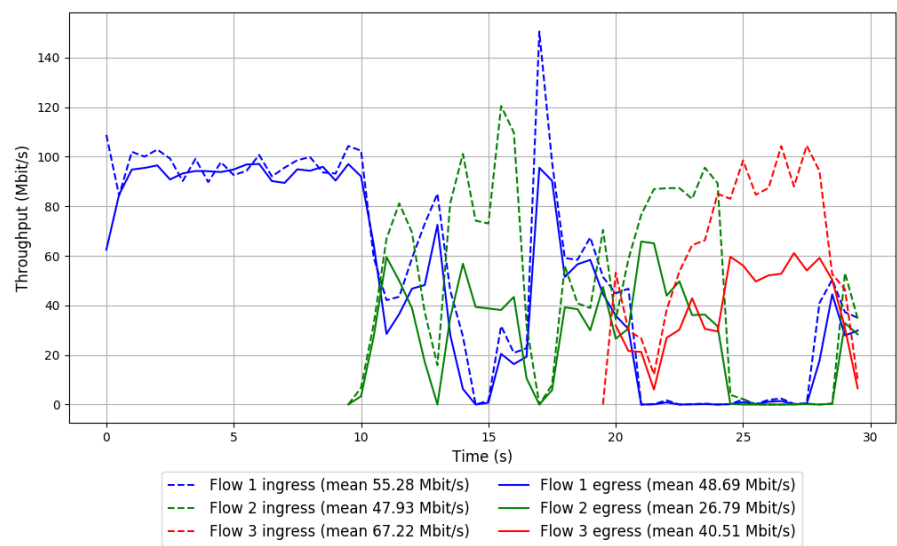


Run 7: Statistics of Verus

Start at: 2017-11-16 13:15:00
End at: 2017-11-16 13:15:30
Local clock offset: 0.22 ms
Remote clock offset: -19.45 ms

Below is generated by plot.py at 2017-11-16 15:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.47 Mbit/s
95th percentile per-packet one-way delay: 30.384 ms
Loss rate: 26.88%
-- Flow 1:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 28.434 ms
Loss rate: 11.92%
-- Flow 2:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 32.468 ms
Loss rate: 44.13%
-- Flow 3:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 32.640 ms
Loss rate: 39.73%

Run 7: Report of Verus — Data Link

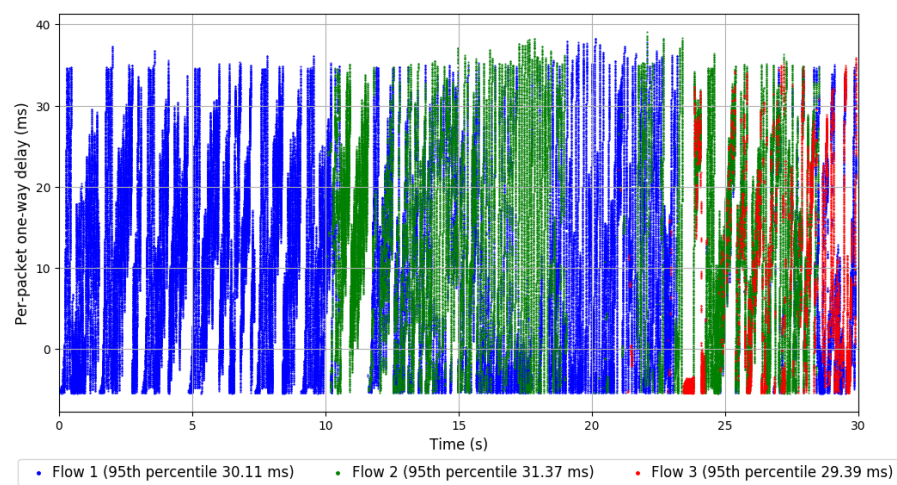
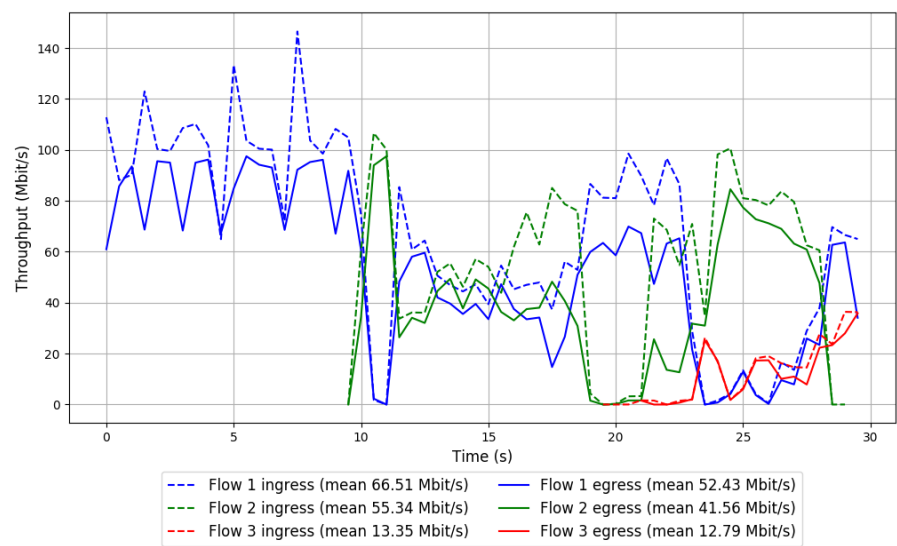


Run 8: Statistics of Verus

Start at: 2017-11-16 13:37:30
End at: 2017-11-16 13:38:00
Local clock offset: 1.632 ms
Remote clock offset: -17.863 ms

Below is generated by plot.py at 2017-11-16 15:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 30.528 ms
Loss rate: 23.41%
-- Flow 1:
Average throughput: 52.43 Mbit/s
95th percentile per-packet one-way delay: 30.114 ms
Loss rate: 21.15%
-- Flow 2:
Average throughput: 41.56 Mbit/s
95th percentile per-packet one-way delay: 31.373 ms
Loss rate: 28.75%
-- Flow 3:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 29.391 ms
Loss rate: 13.96%

Run 8: Report of Verus — Data Link

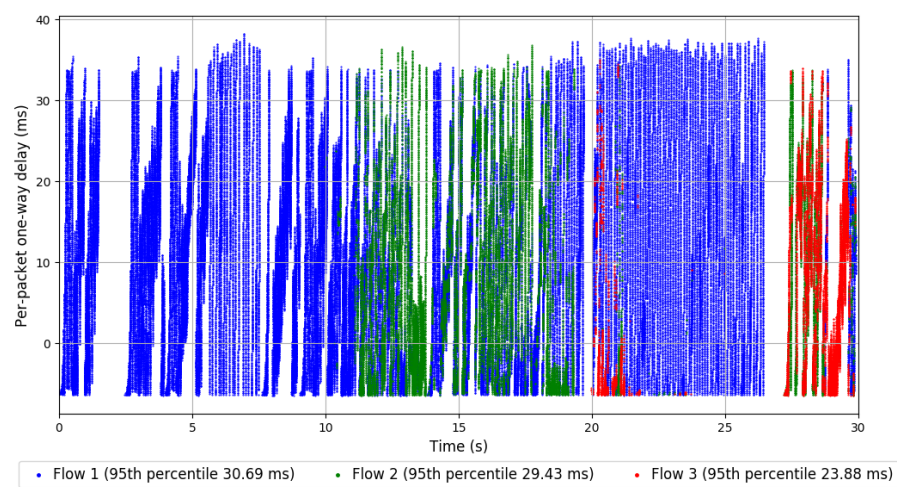
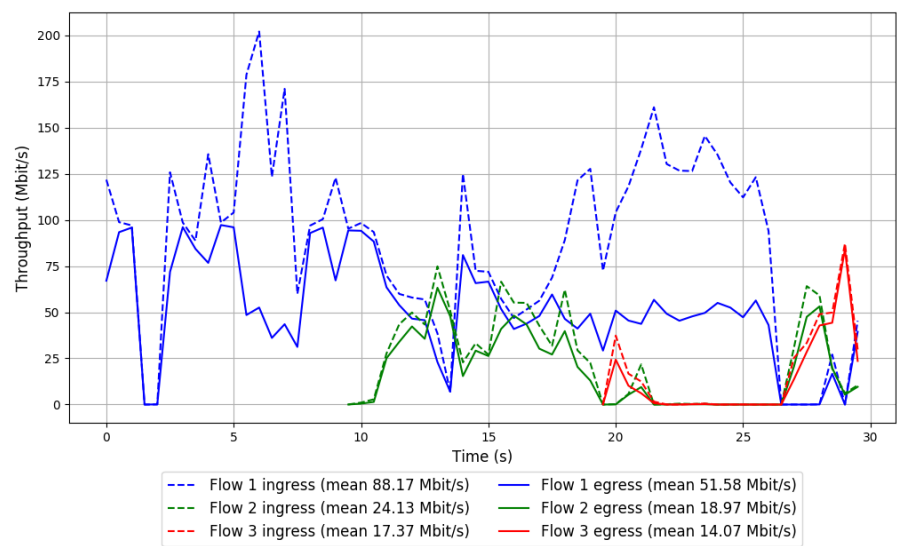


Run 9: Statistics of Verus

Start at: 2017-11-16 13:59:08
End at: 2017-11-16 13:59:38
Local clock offset: 0.55 ms
Remote clock offset: -17.949 ms

Below is generated by plot.py at 2017-11-16 15:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.88 Mbit/s
95th percentile per-packet one-way delay: 30.245 ms
Loss rate: 37.35%
-- Flow 1:
Average throughput: 51.58 Mbit/s
95th percentile per-packet one-way delay: 30.692 ms
Loss rate: 41.46%
-- Flow 2:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 29.425 ms
Loss rate: 21.45%
-- Flow 3:
Average throughput: 14.07 Mbit/s
95th percentile per-packet one-way delay: 23.882 ms
Loss rate: 18.83%

Run 9: Report of Verus — Data Link

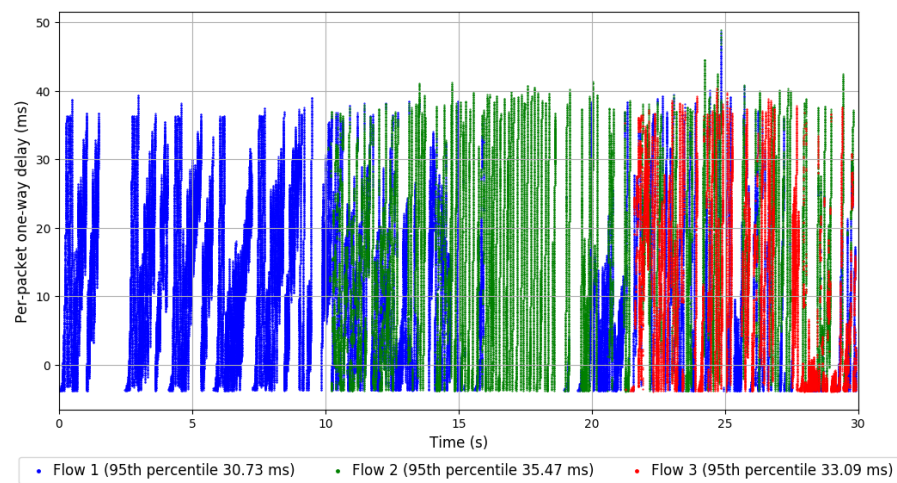
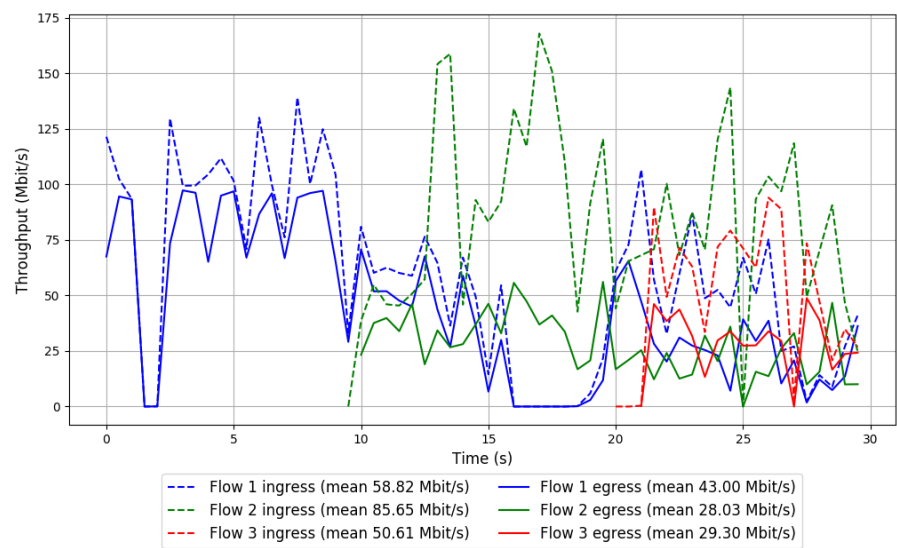


Run 10: Statistics of Verus

Start at: 2017-11-16 14:20:31
End at: 2017-11-16 14:21:01
Local clock offset: -2.063 ms
Remote clock offset: -16.078 ms

Below is generated by plot.py at 2017-11-16 15:12:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.03 Mbit/s
95th percentile per-packet one-way delay: 32.864 ms
Loss rate: 46.89%
-- Flow 1:
Average throughput: 43.00 Mbit/s
95th percentile per-packet one-way delay: 30.726 ms
Loss rate: 26.89%
-- Flow 2:
Average throughput: 28.03 Mbit/s
95th percentile per-packet one-way delay: 35.473 ms
Loss rate: 67.26%
-- Flow 3:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 33.089 ms
Loss rate: 48.27%

Run 10: Report of Verus — Data Link

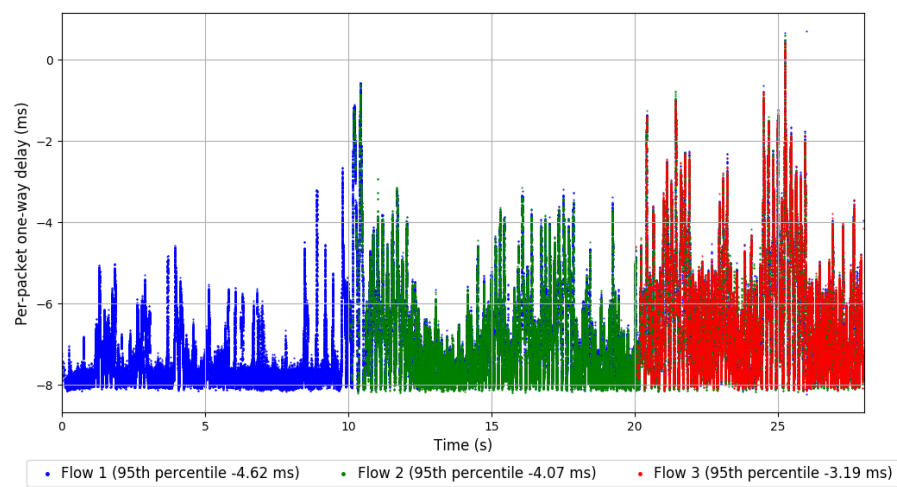
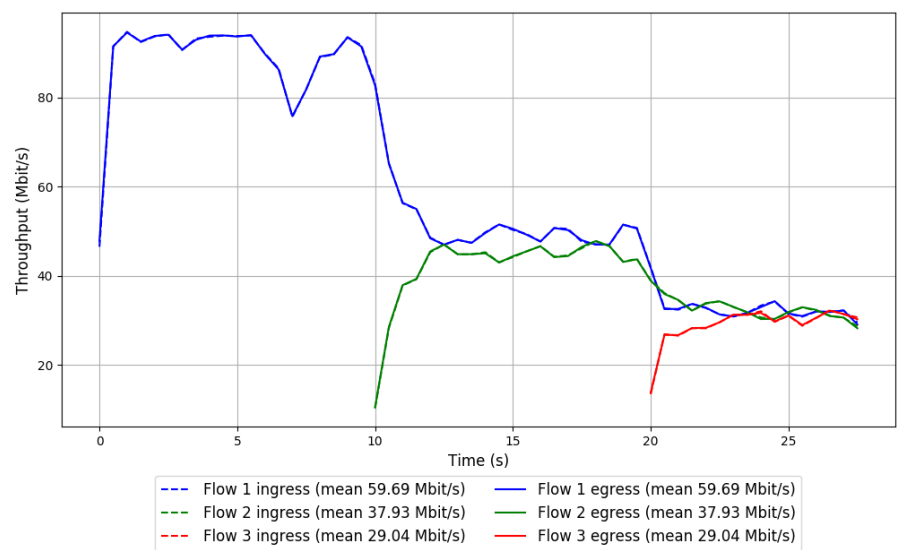


Run 1: Statistics of Copa

Start at: 2017-11-16 11:07:20
End at: 2017-11-16 11:07:50
Local clock offset: 4.259 ms
Remote clock offset: -17.328 ms

Below is generated by plot.py at 2017-11-16 15:13:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.28 Mbit/s
95th percentile per-packet one-way delay: -4.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: -4.623 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: -4.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.04 Mbit/s
95th percentile per-packet one-way delay: -3.185 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

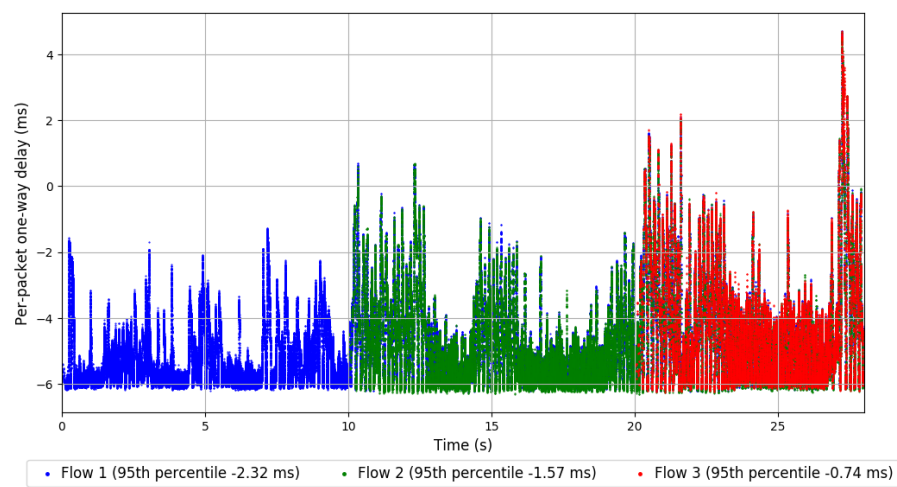
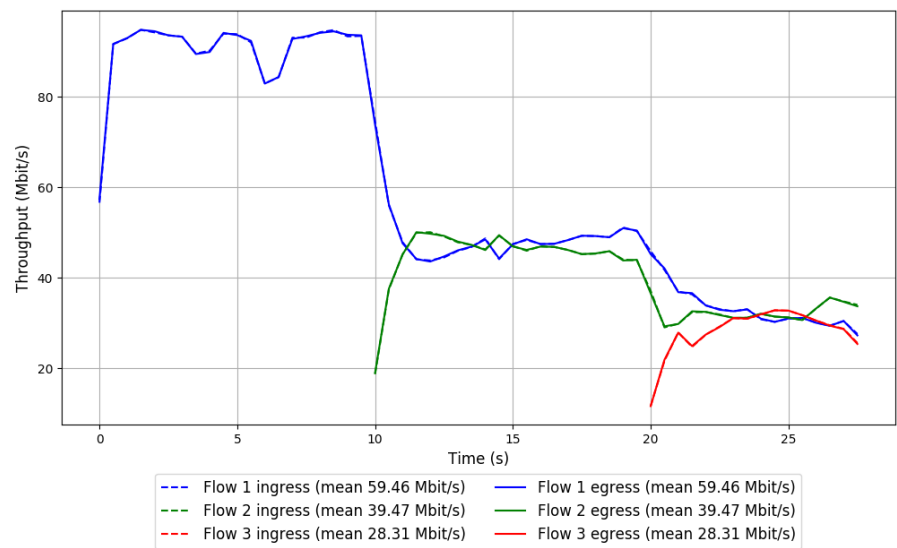


Run 2: Statistics of Copa

Start at: 2017-11-16 11:25:49
End at: 2017-11-16 11:26:19
Local clock offset: 2.288 ms
Remote clock offset: -16.542 ms

Below is generated by plot.py at 2017-11-16 15:13:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: -1.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.46 Mbit/s
95th percentile per-packet one-way delay: -2.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: -1.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: -0.741 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 11:44:50

End at: 2017-11-16 11:45:20

Local clock offset: 4.19 ms

Remote clock offset: 3.157 ms

Below is generated by plot.py at 2017-11-16 15:13:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 15.422 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 15.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 15.578 ms

Loss rate: 0.00%

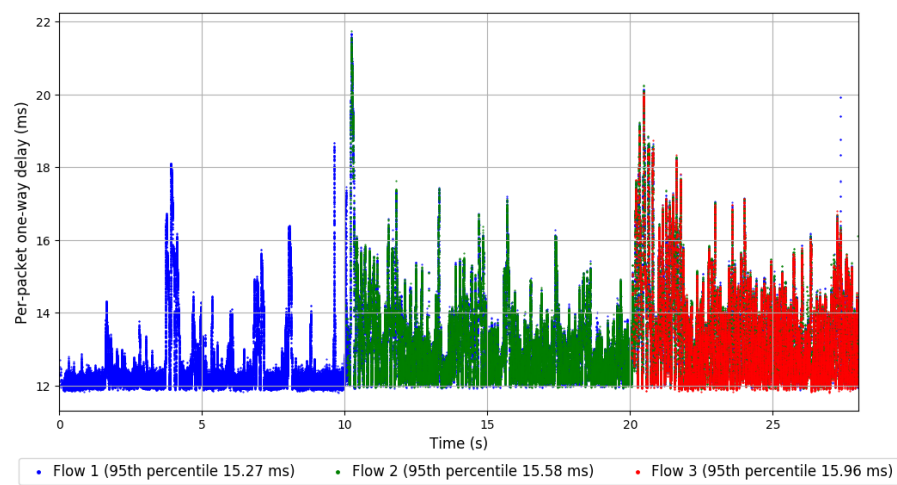
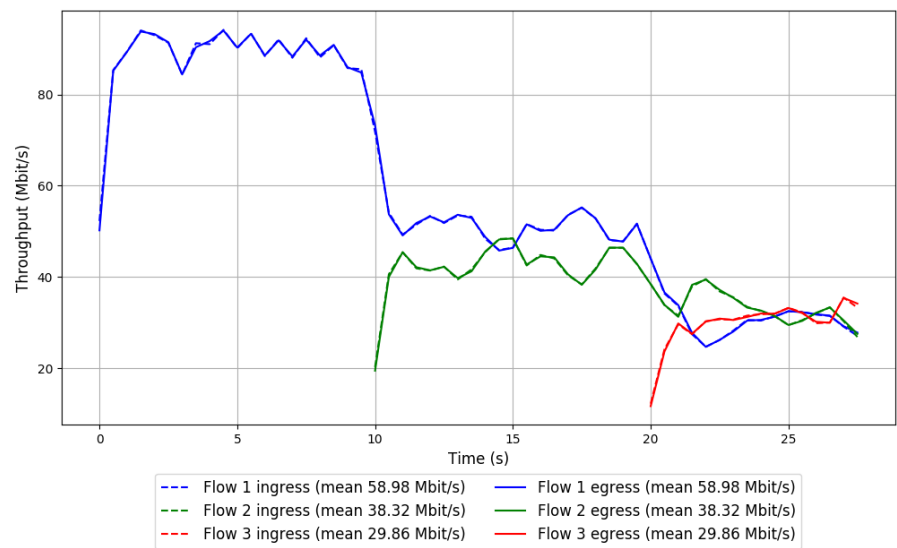
-- Flow 3:

Average throughput: 29.86 Mbit/s

95th percentile per-packet one-way delay: 15.959 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 12:04:54

End at: 2017-11-16 12:05:24

Local clock offset: 2.298 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2017-11-16 15:14:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 15.892 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 15.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.78 Mbit/s

95th percentile per-packet one-way delay: 16.027 ms

Loss rate: 0.00%

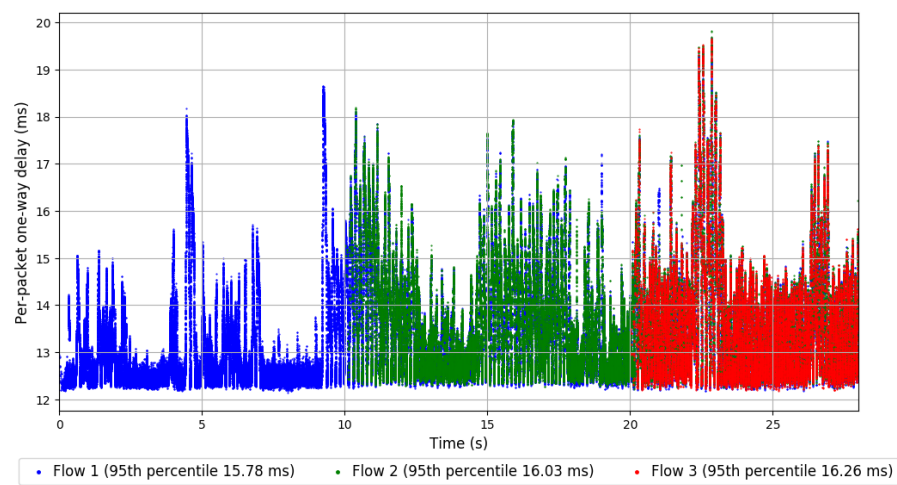
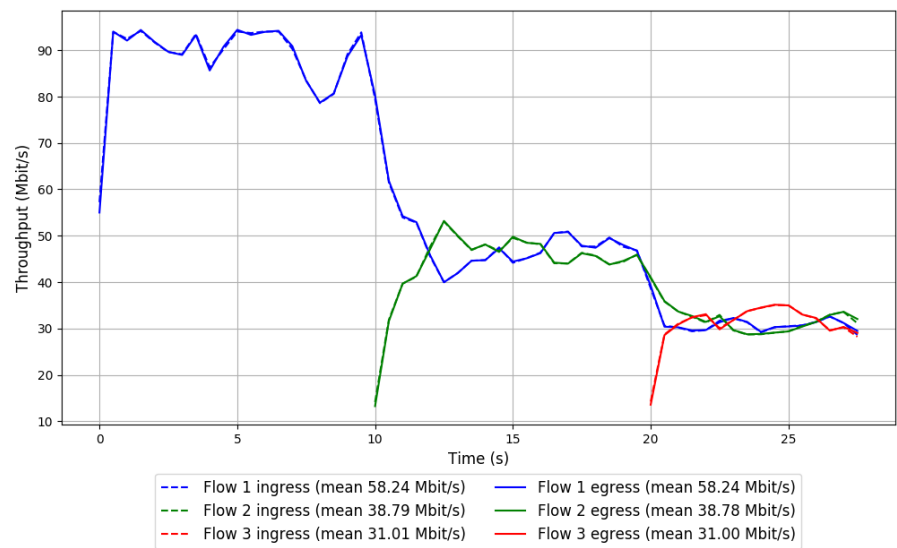
-- Flow 3:

Average throughput: 31.00 Mbit/s

95th percentile per-packet one-way delay: 16.262 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

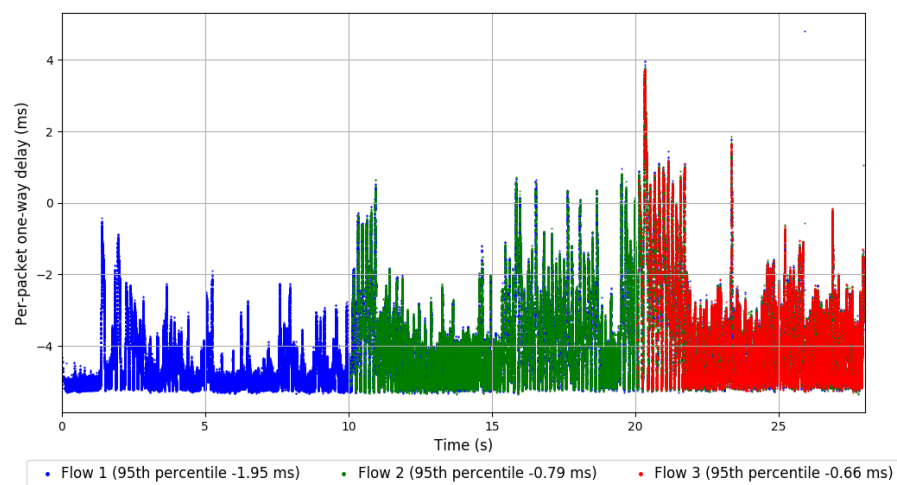
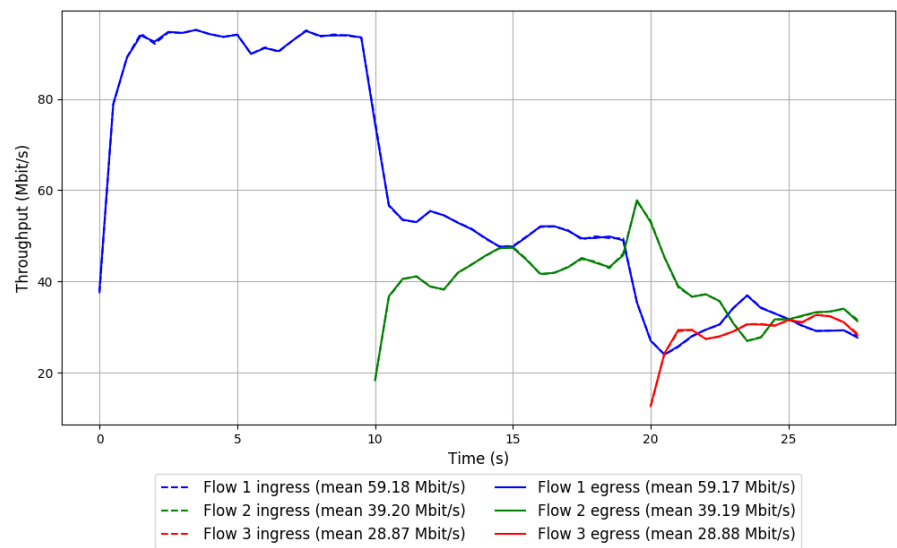


Run 5: Statistics of Copa

Start at: 2017-11-16 12:25:16
End at: 2017-11-16 12:25:46
Local clock offset: 2.323 ms
Remote clock offset: -17.749 ms

Below is generated by plot.py at 2017-11-16 15:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: -1.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.17 Mbit/s
95th percentile per-packet one-way delay: -1.948 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: -0.790 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: -0.655 ms
Loss rate: 0.01%

Run 5: Report of Copa — Data Link

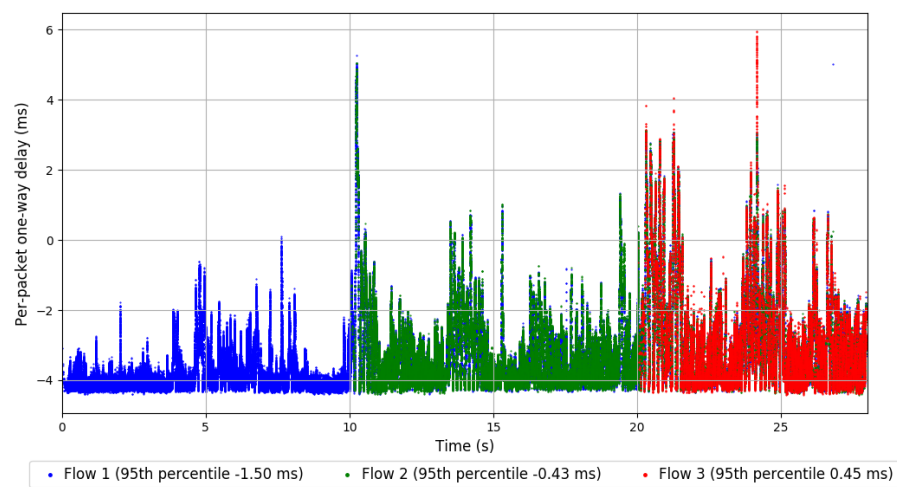
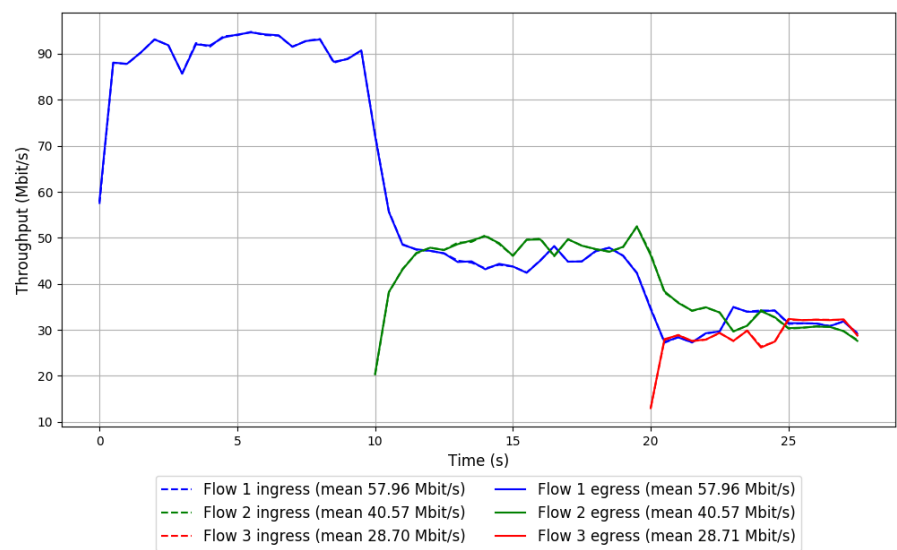


Run 6: Statistics of Copa

Start at: 2017-11-16 12:45:49
End at: 2017-11-16 12:46:19
Local clock offset: 1.88 ms
Remote clock offset: -16.661 ms

Below is generated by plot.py at 2017-11-16 15:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: -0.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: -1.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: -0.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.71 Mbit/s
95th percentile per-packet one-way delay: 0.447 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

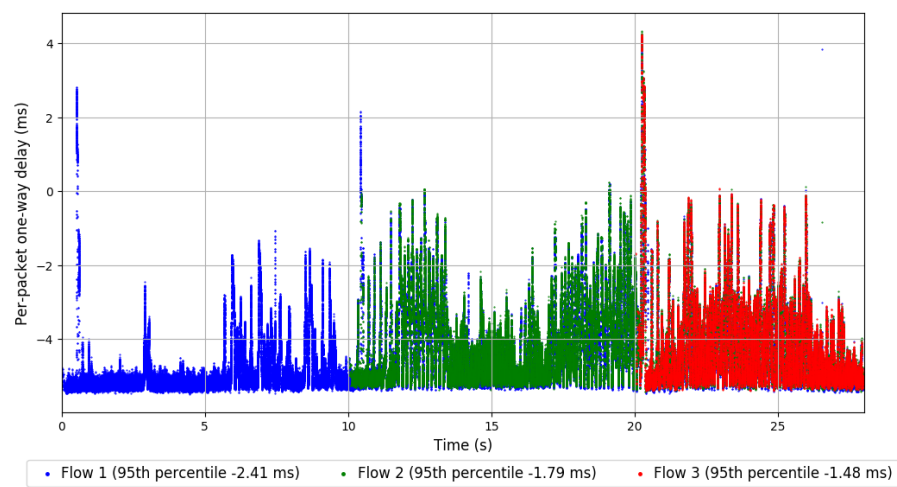
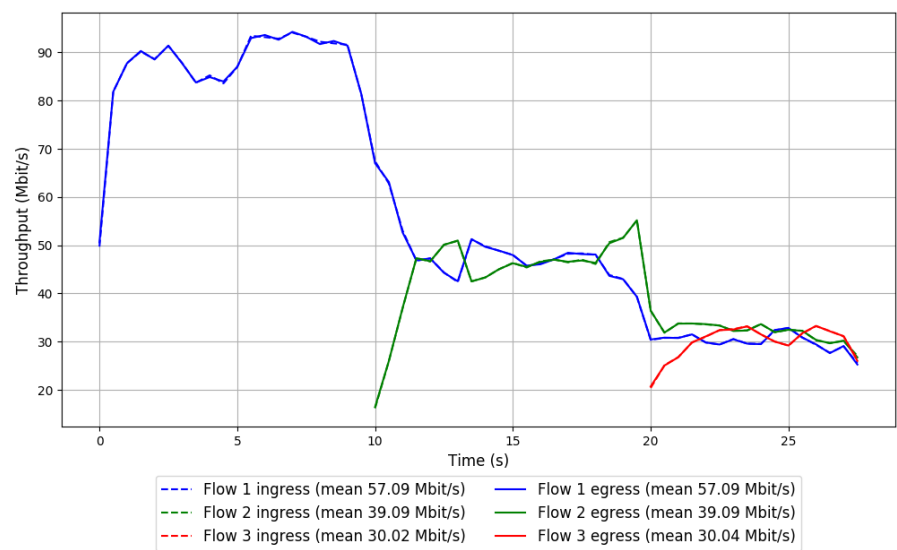


Run 7: Statistics of Copa

Start at: 2017-11-16 13:05:59
End at: 2017-11-16 13:06:29
Local clock offset: 2.068 ms
Remote clock offset: -17.695 ms

Below is generated by plot.py at 2017-11-16 15:14:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: -2.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: -2.408 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: -1.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: -1.480 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

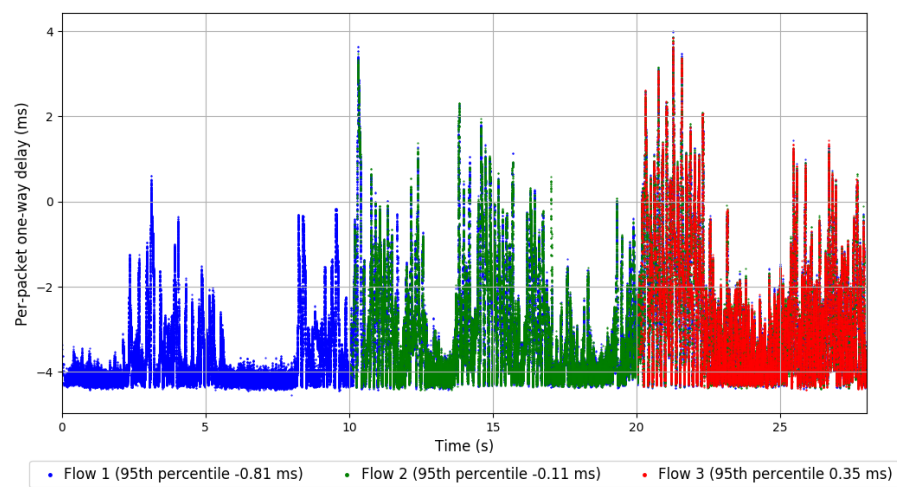
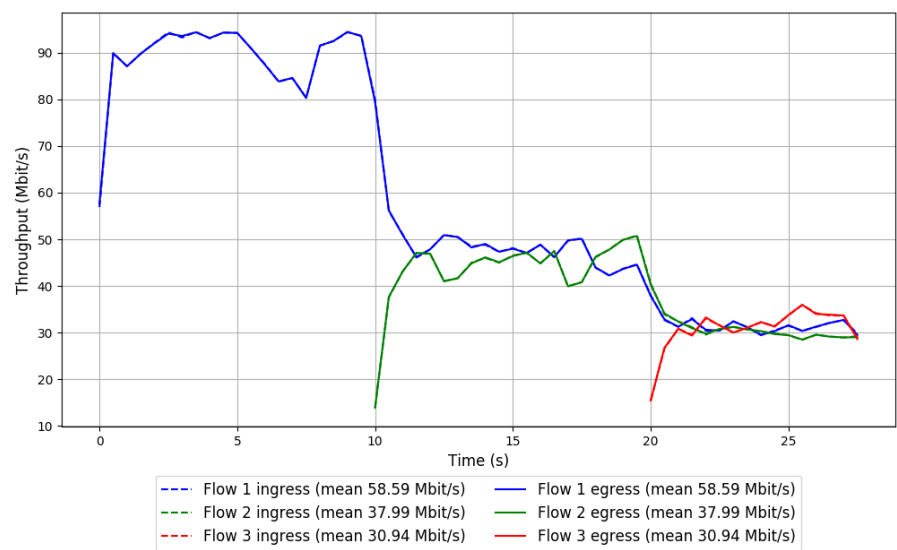


Run 8: Statistics of Copa

Start at: 2017-11-16 13:27:12
End at: 2017-11-16 13:27:42
Local clock offset: 1.686 ms
Remote clock offset: -17.084 ms

Below is generated by plot.py at 2017-11-16 15:14:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: -0.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.59 Mbit/s
95th percentile per-packet one-way delay: -0.814 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: -0.108 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 0.351 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

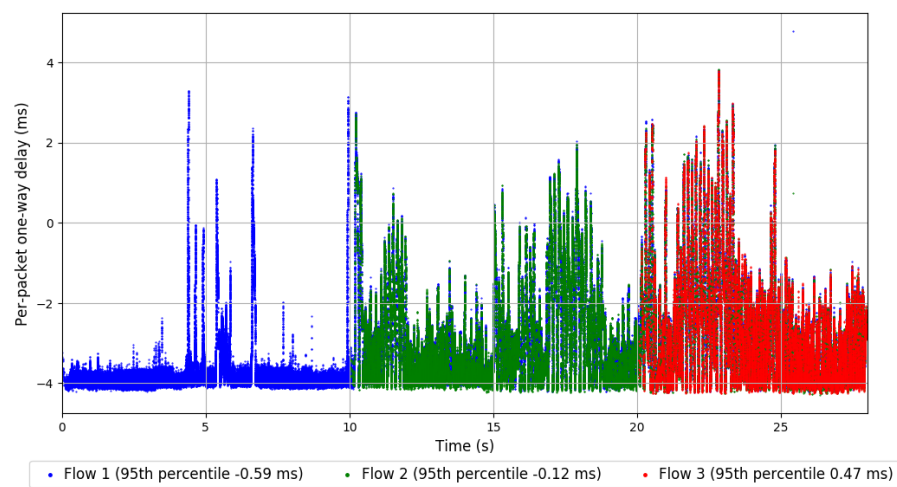
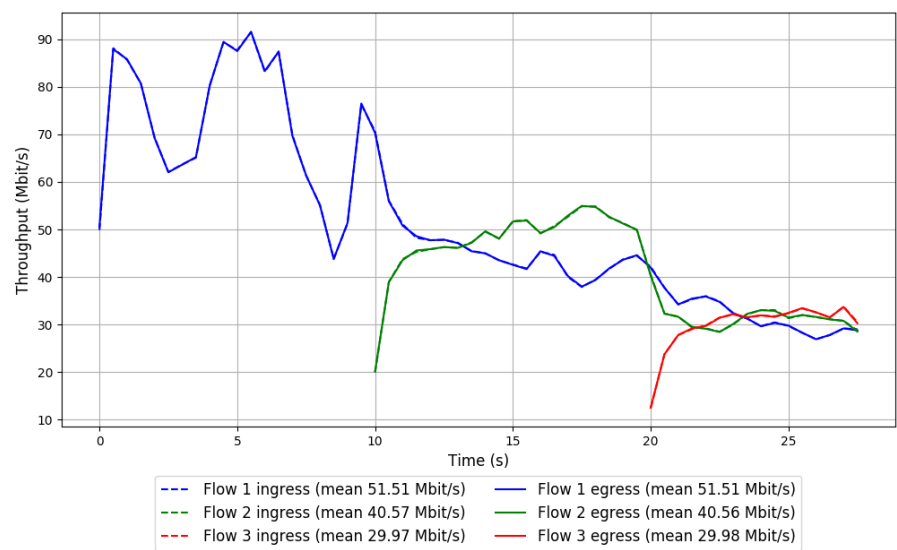


Run 9: Statistics of Copa

Start at: 2017-11-16 13:50:17
End at: 2017-11-16 13:50:47
Local clock offset: 0.087 ms
Remote clock offset: -17.119 ms

Below is generated by plot.py at 2017-11-16 15:15:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: -0.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.51 Mbit/s
95th percentile per-packet one-way delay: -0.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: -0.116 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 0.466 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

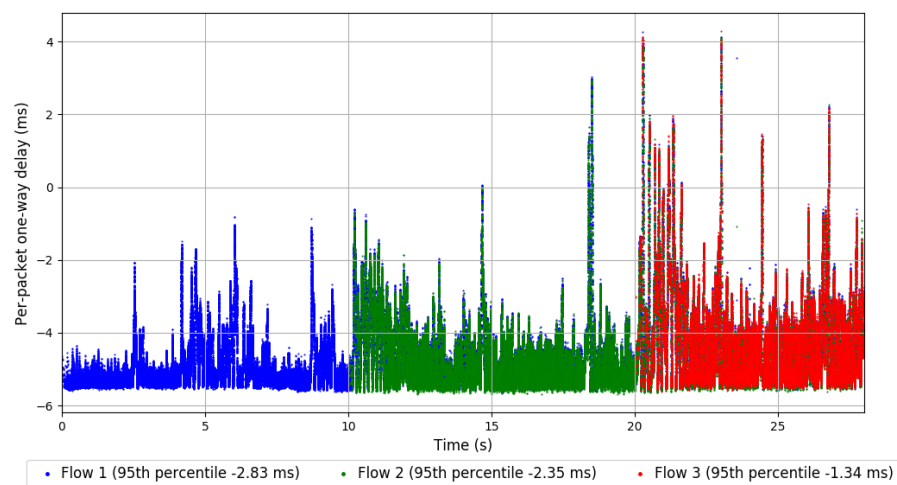
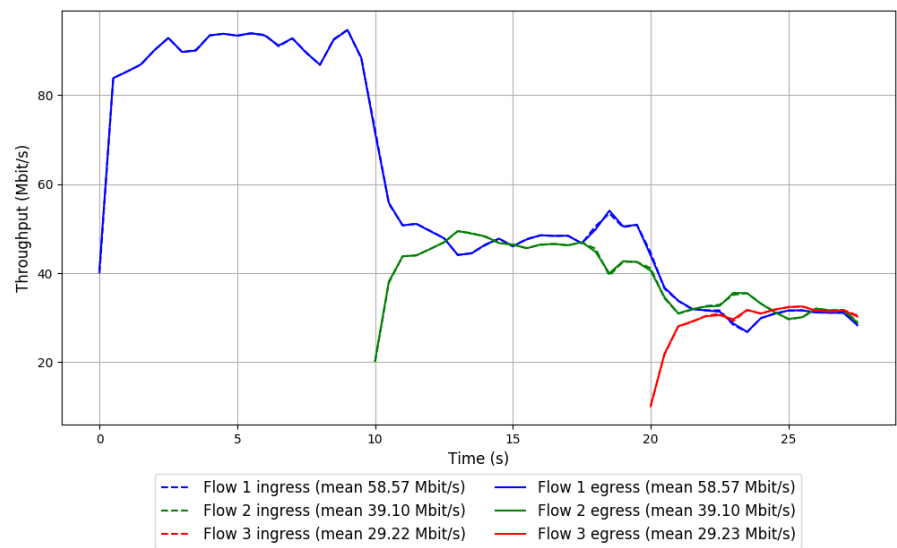


Run 10: Statistics of Copa

Start at: 2017-11-16 14:10:51
End at: 2017-11-16 14:11:21
Local clock offset: 0.261 ms
Remote clock offset: -16.433 ms

Below is generated by plot.py at 2017-11-16 15:16:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: -2.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.57 Mbit/s
95th percentile per-packet one-way delay: -2.830 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: -2.347 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: -1.342 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

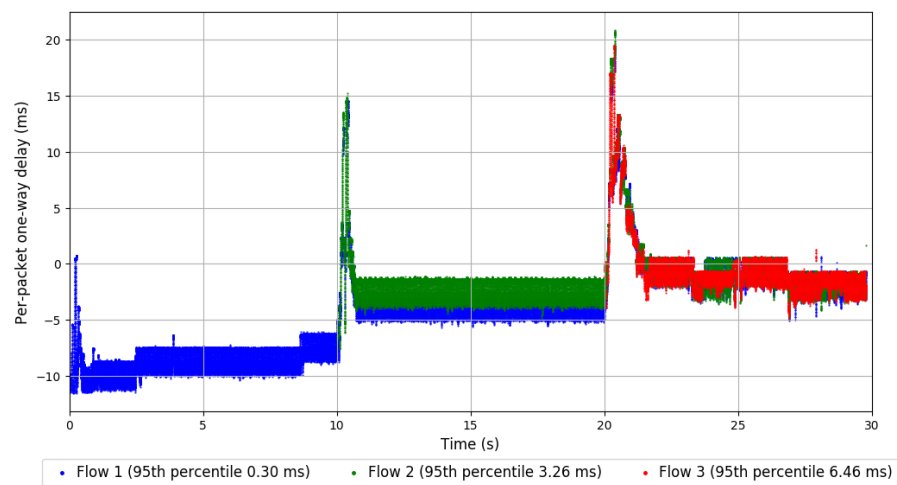
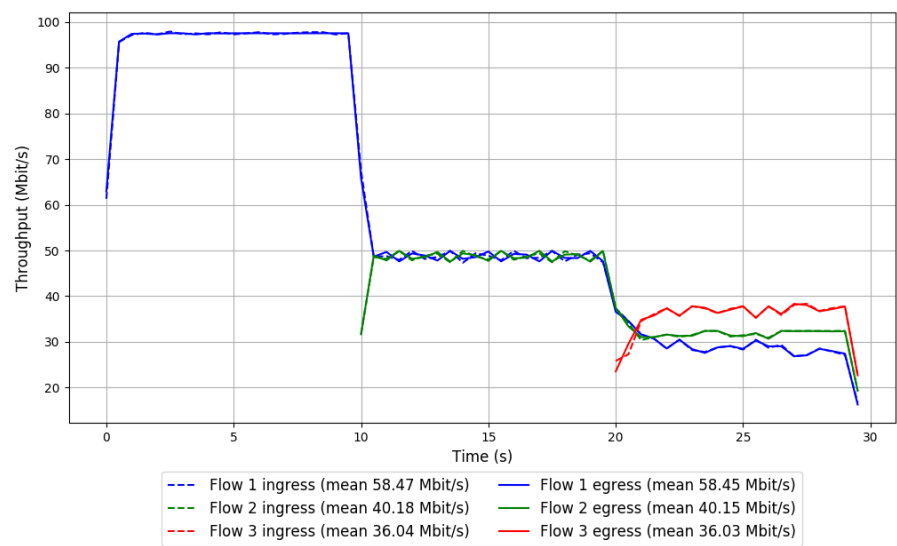


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 11:17:55
End at: 2017-11-16 11:18:25
Local clock offset: 2.822 ms
Remote clock offset: -21.764 ms

# Below is generated by plot.py at 2017-11-16 15:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 0.940 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 0.300 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.15 Mbit/s
95th percentile per-packet one-way delay: 3.263 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 6.457 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link

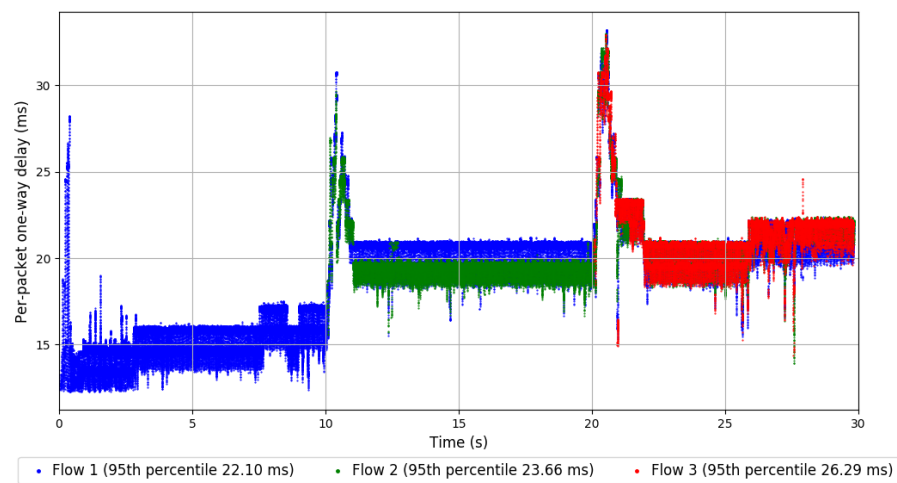
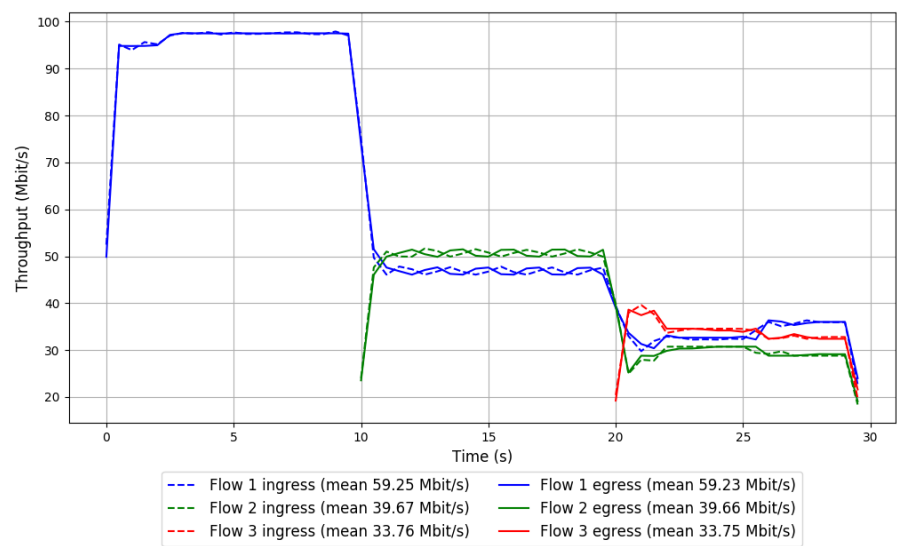


```
Run 2: Statistics of Indigo

Start at: 2017-11-16 11:36:31
End at: 2017-11-16 11:37:01
Local clock offset: 3.204 ms
Remote clock offset: 3.192 ms

# Below is generated by plot.py at 2017-11-16 15:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 23.285 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 59.23 Mbit/s
95th percentile per-packet one-way delay: 22.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 23.663 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 26.288 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 11:56:24

End at: 2017-11-16 11:56:54

Local clock offset: 2.901 ms

Remote clock offset: 2.924 ms

Below is generated by plot.py at 2017-11-16 15:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 23.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.55 Mbit/s

95th percentile per-packet one-way delay: 22.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 24.984 ms

Loss rate: 0.00%

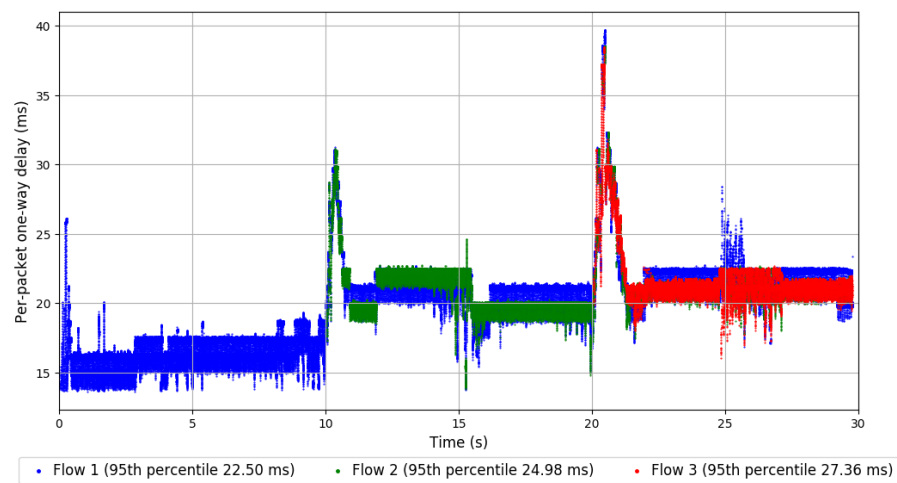
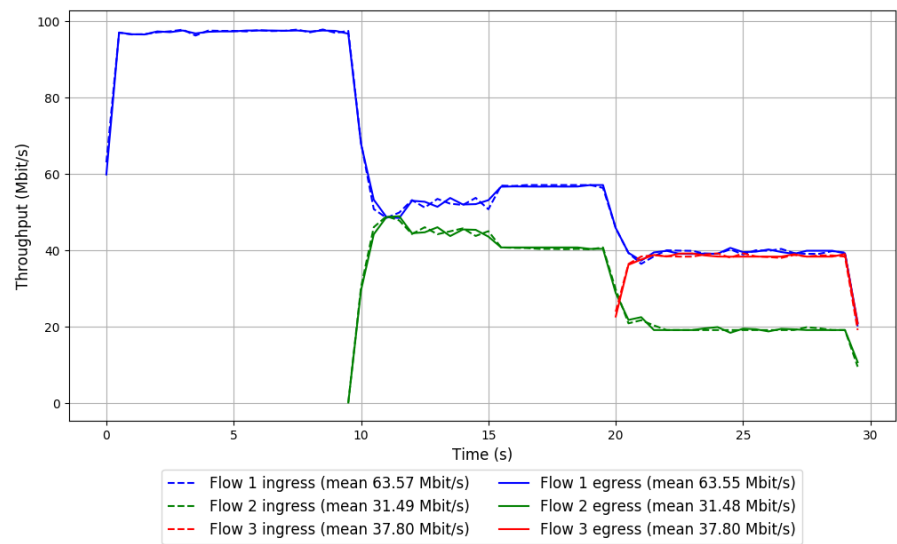
-- Flow 3:

Average throughput: 37.80 Mbit/s

95th percentile per-packet one-way delay: 27.364 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 12:16:28

End at: 2017-11-16 12:16:58

Local clock offset: 4.324 ms

Remote clock offset: 1.907 ms

Below is generated by plot.py at 2017-11-16 15:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.68 Mbit/s

95th percentile per-packet one-way delay: 24.884 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.98 Mbit/s

95th percentile per-packet one-way delay: 23.726 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 25.773 ms

Loss rate: 0.00%

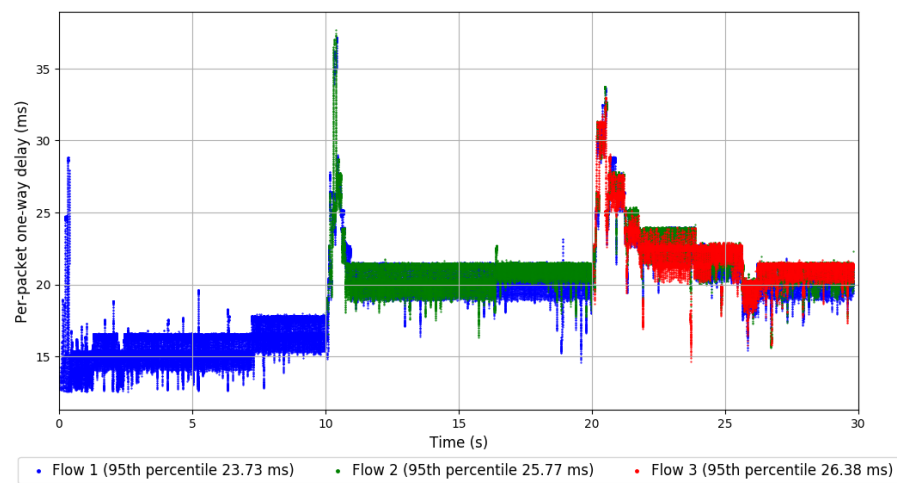
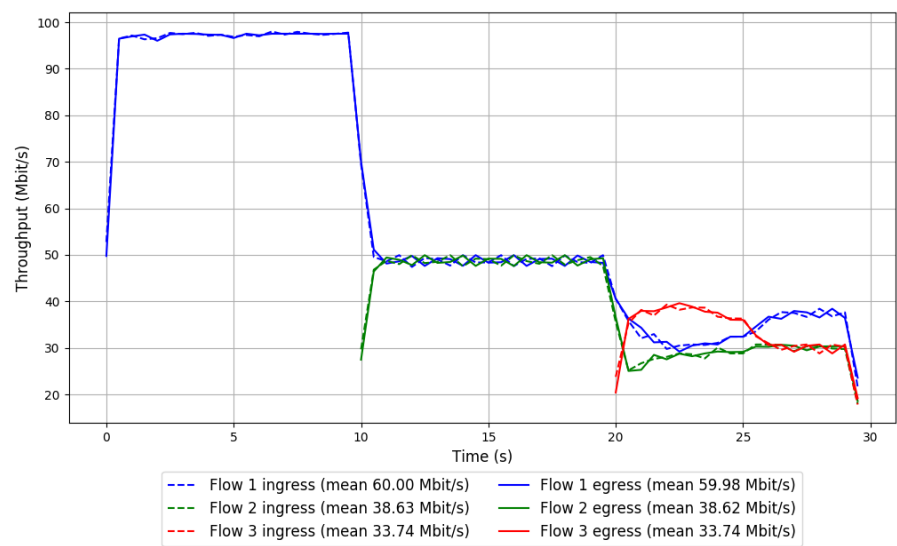
-- Flow 3:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 26.384 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

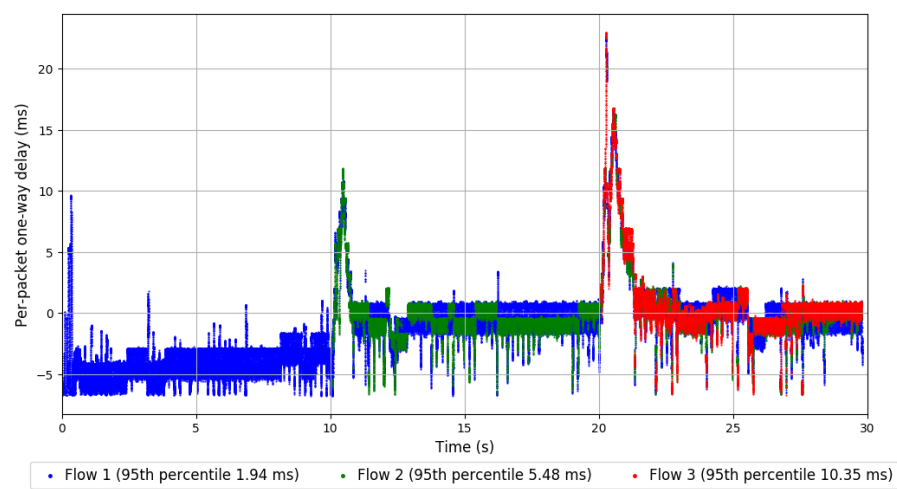
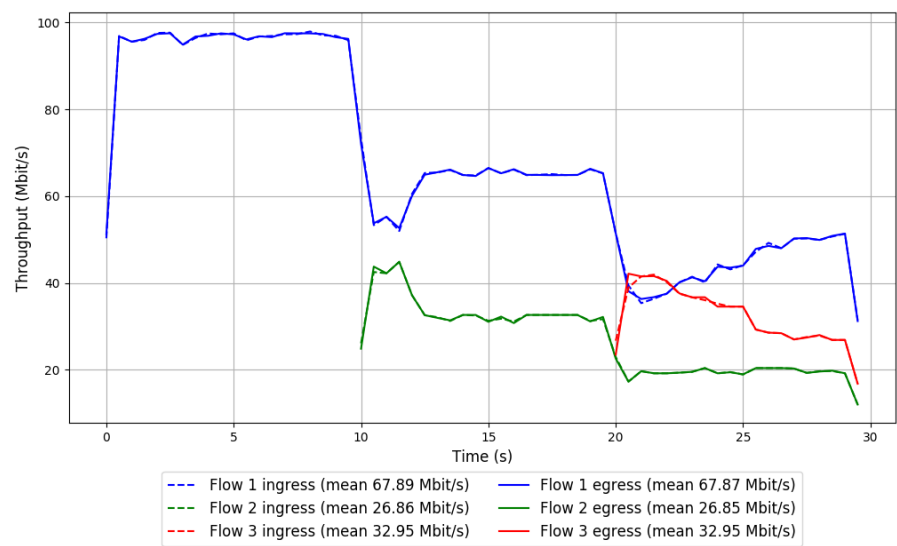


Run 5: Statistics of Indigo

Start at: 2017-11-16 12:36:43
End at: 2017-11-16 12:37:13
Local clock offset: 3.507 ms
Remote clock offset: -17.703 ms

Below is generated by plot.py at 2017-11-16 15:16:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 4.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 1.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.85 Mbit/s
95th percentile per-packet one-way delay: 5.480 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 10.351 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

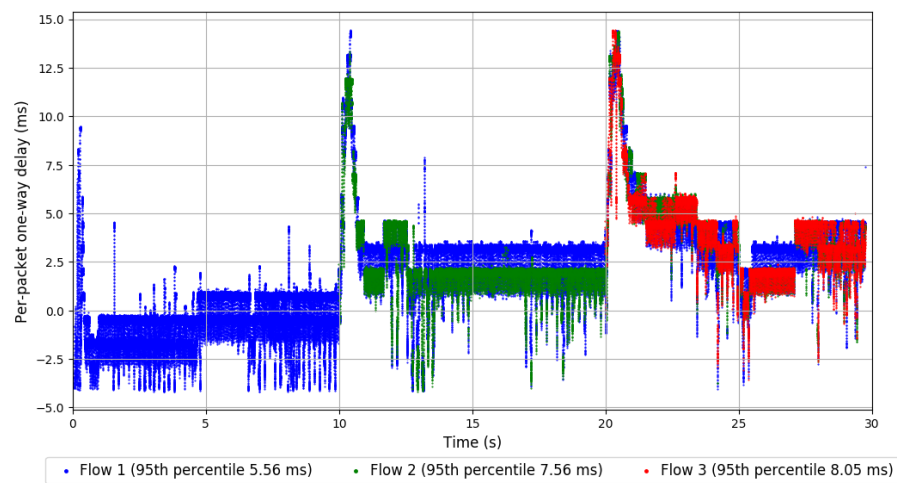
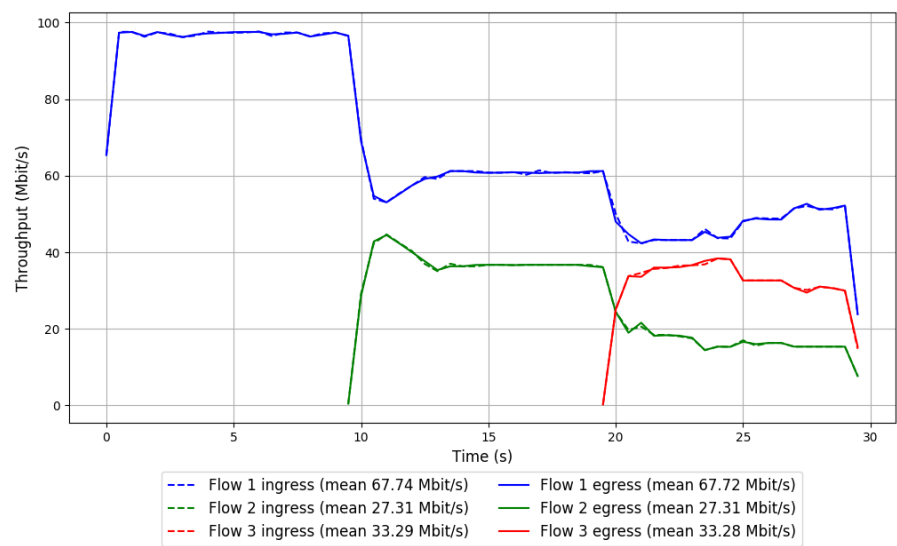


Run 6: Statistics of Indigo

Start at: 2017-11-16 12:57:17
End at: 2017-11-16 12:57:47
Local clock offset: -0.087 ms
Remote clock offset: -18.185 ms

Below is generated by plot.py at 2017-11-16 15:16:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 6.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.72 Mbit/s
95th percentile per-packet one-way delay: 5.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.31 Mbit/s
95th percentile per-packet one-way delay: 7.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 8.050 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

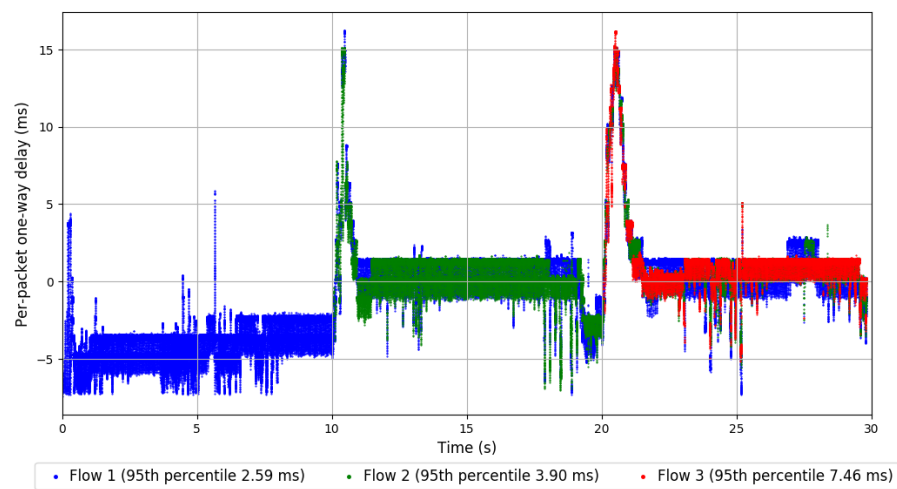
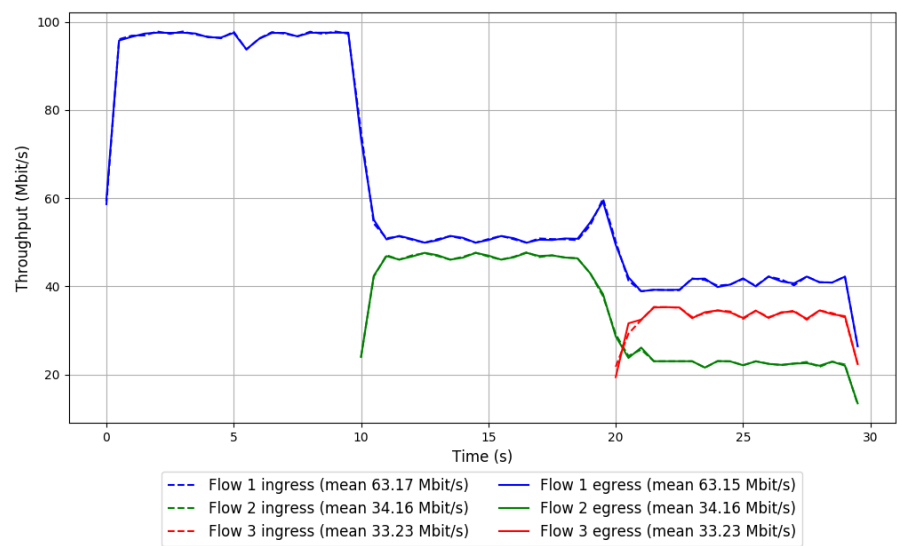


Run 7: Statistics of Indigo

Start at: 2017-11-16 13:17:41
End at: 2017-11-16 13:18:11
Local clock offset: 2.81 ms
Remote clock offset: -18.727 ms

Below is generated by plot.py at 2017-11-16 15:16:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.68 Mbit/s
95th percentile per-packet one-way delay: 2.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 2.586 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.16 Mbit/s
95th percentile per-packet one-way delay: 3.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 7.465 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

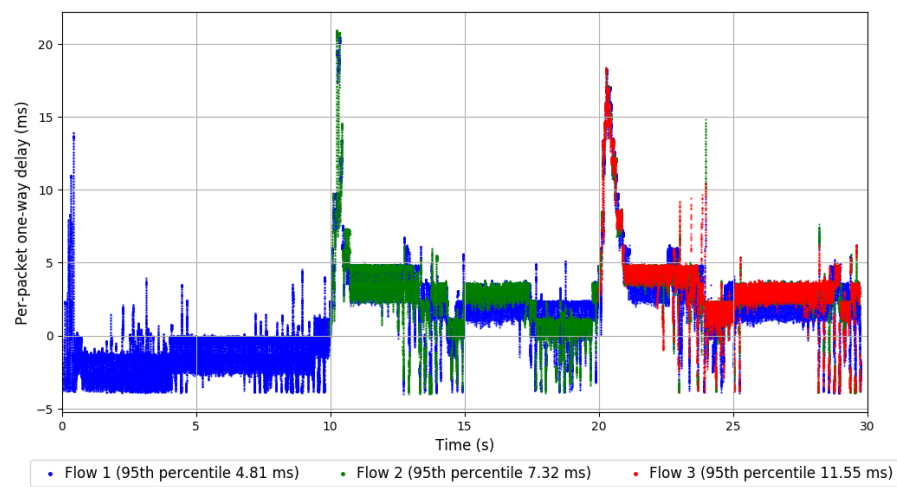
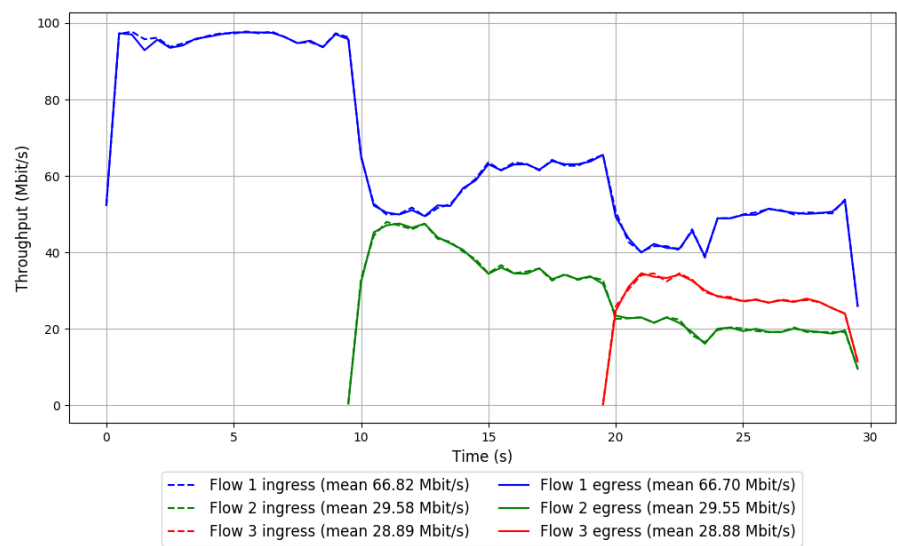


Run 8: Statistics of Indigo

Start at: 2017-11-16 13:40:19
End at: 2017-11-16 13:40:49
Local clock offset: 0.931 ms
Remote clock offset: -16.965 ms

Below is generated by plot.py at 2017-11-16 15:16:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 5.788 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 4.808 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 7.318 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 11.550 ms
Loss rate: 0.09%

Run 8: Report of Indigo — Data Link

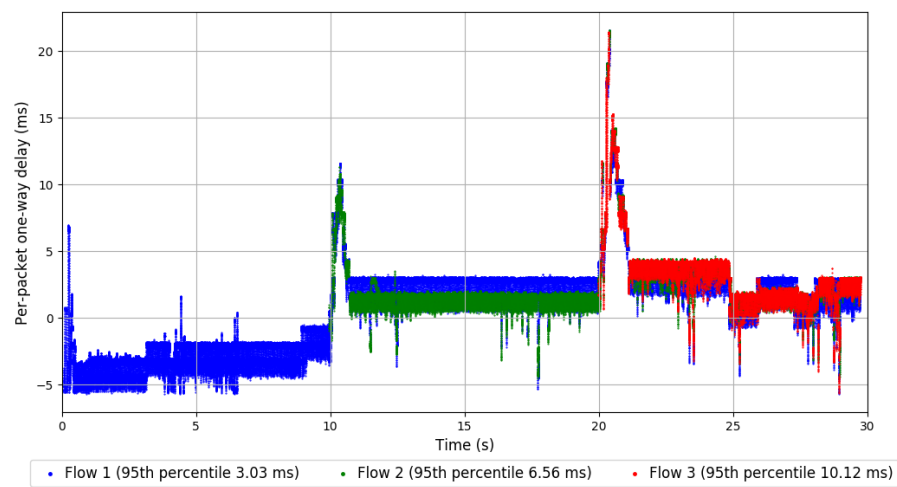
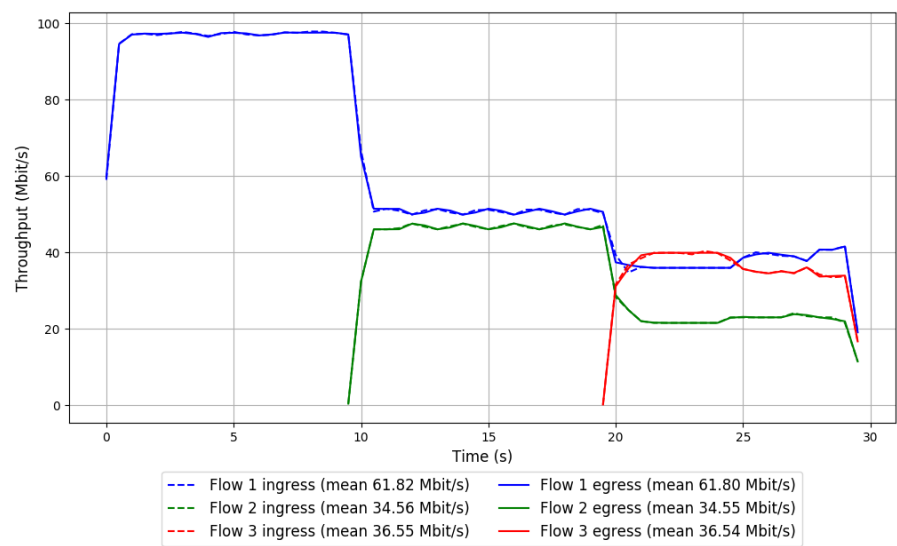


Run 9: Statistics of Indigo

Start at: 2017-11-16 14:01:33
End at: 2017-11-16 14:02:03
Local clock offset: 0.149 ms
Remote clock offset: -17.49 ms

Below is generated by plot.py at 2017-11-16 15:17:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 4.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 3.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 6.558 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 10.118 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

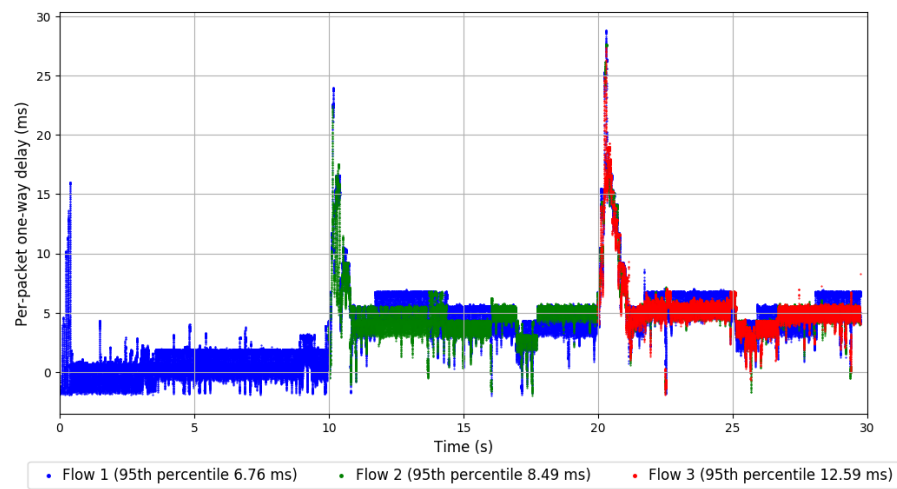
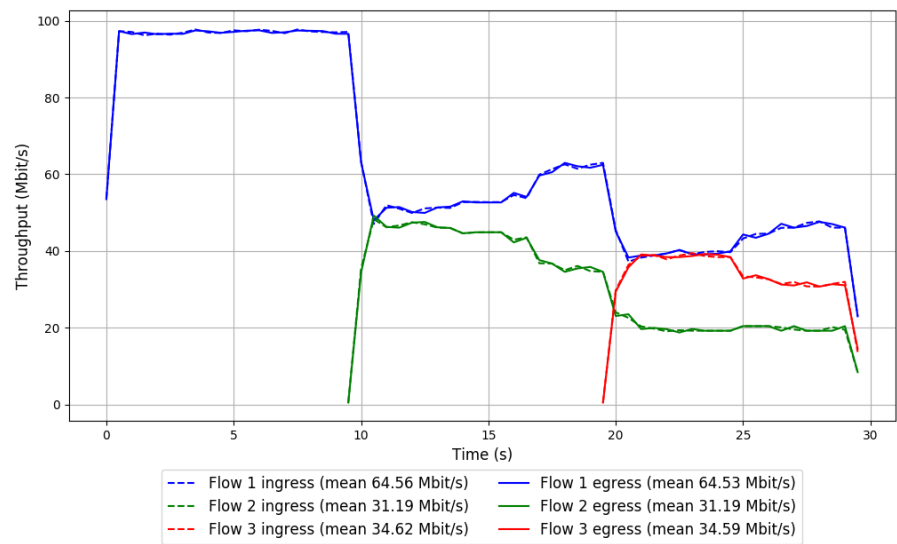


Run 10: Statistics of Indigo

Start at: 2017-11-16 14:23:30
End at: 2017-11-16 14:24:00
Local clock offset: -3.666 ms
Remote clock offset: -15.757 ms

Below is generated by plot.py at 2017-11-16 15:17:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 7.705 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 64.53 Mbit/s
95th percentile per-packet one-way delay: 6.765 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 8.488 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 12.593 ms
Loss rate: 0.05%

Run 10: Report of Indigo — Data Link

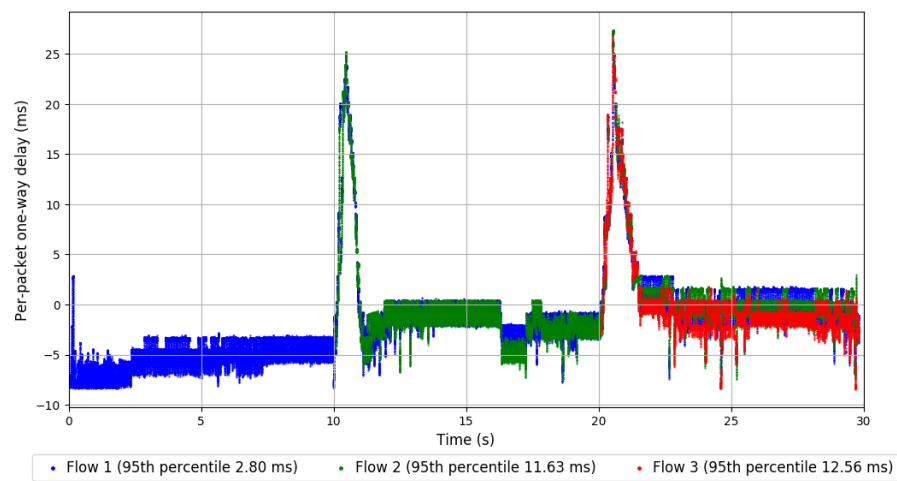
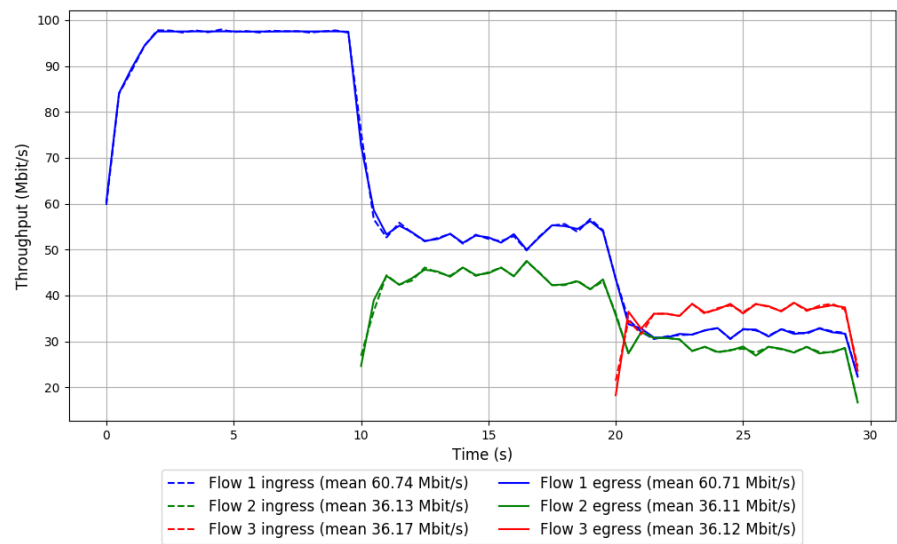


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 11:22:02
End at: 2017-11-16 11:22:32
Local clock offset: 3.808 ms
Remote clock offset: -17.325 ms

# Below is generated by plot.py at 2017-11-16 15:17:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 7.686 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 2.796 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 11.627 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 36.12 Mbit/s
95th percentile per-packet one-way delay: 12.564 ms
Loss rate: 0.14%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

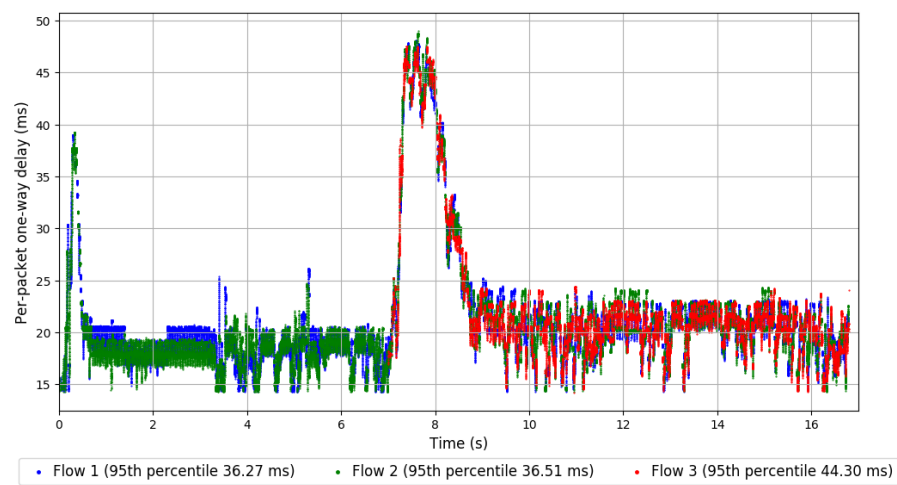
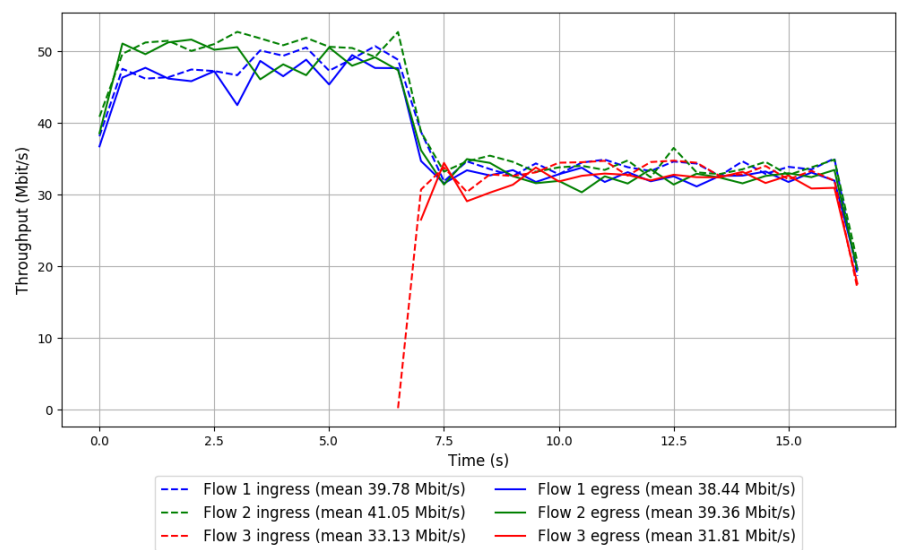
Start at: 2017-11-16 11:40:51

End at: 2017-11-16 11:41:21

Local clock offset: 2.945 ms

Remote clock offset: 4.767 ms

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 12:00:36

End at: 2017-11-16 12:01:06

Local clock offset: 5.394 ms

Remote clock offset: 2.305 ms

Below is generated by plot.py at 2017-11-16 15:17:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 27.545 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 22.051 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 31.722 ms

Loss rate: 0.01%

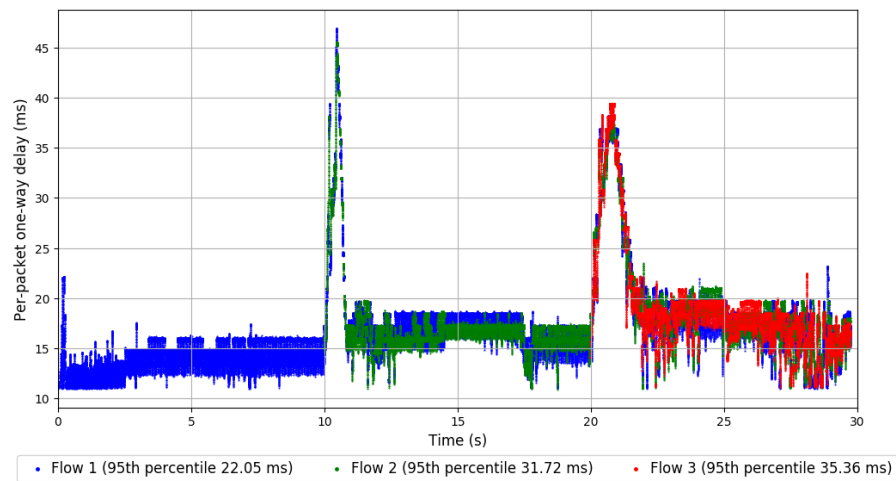
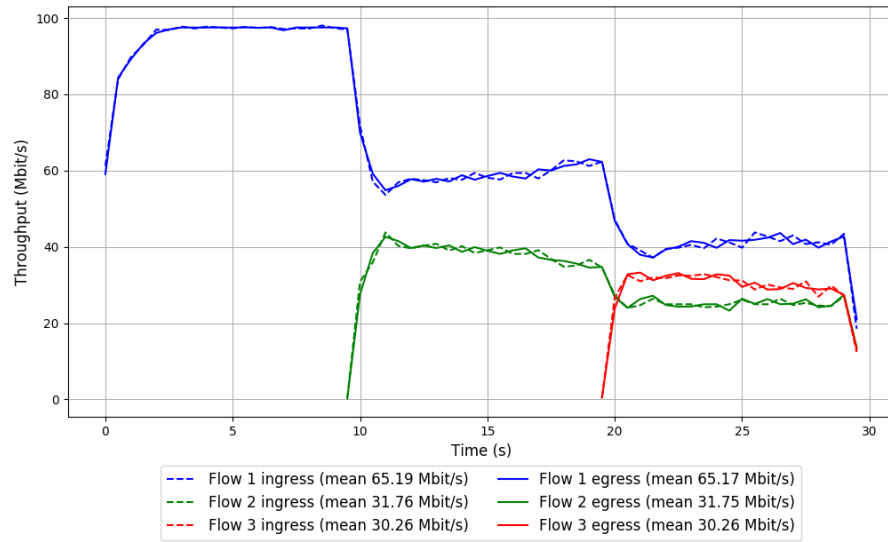
-- Flow 3:

Average throughput: 30.26 Mbit/s

95th percentile per-packet one-way delay: 35.357 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 12:21:18

End at: 2017-11-16 12:21:48

Local clock offset: 4.597 ms

Remote clock offset: 1.878 ms

Below is generated by plot.py at 2017-11-16 15:17:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.63 Mbit/s

95th percentile per-packet one-way delay: 27.629 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 23.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 31.660 ms

Loss rate: 0.00%

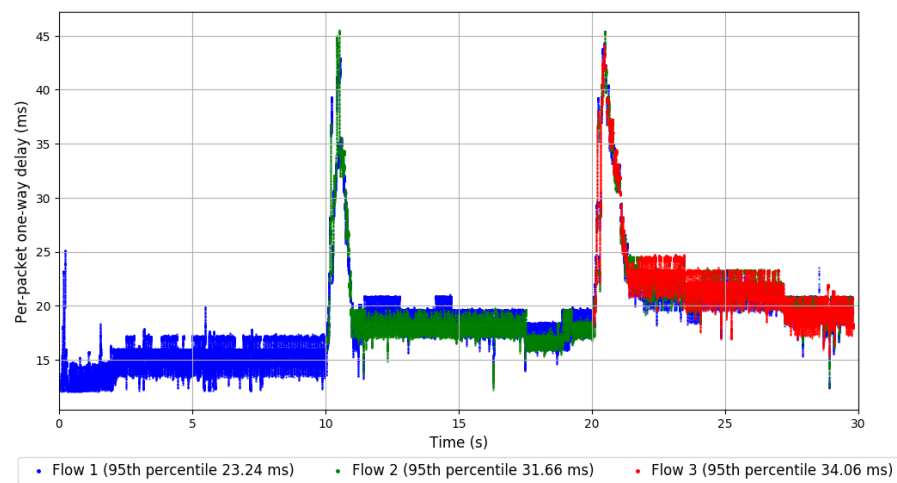
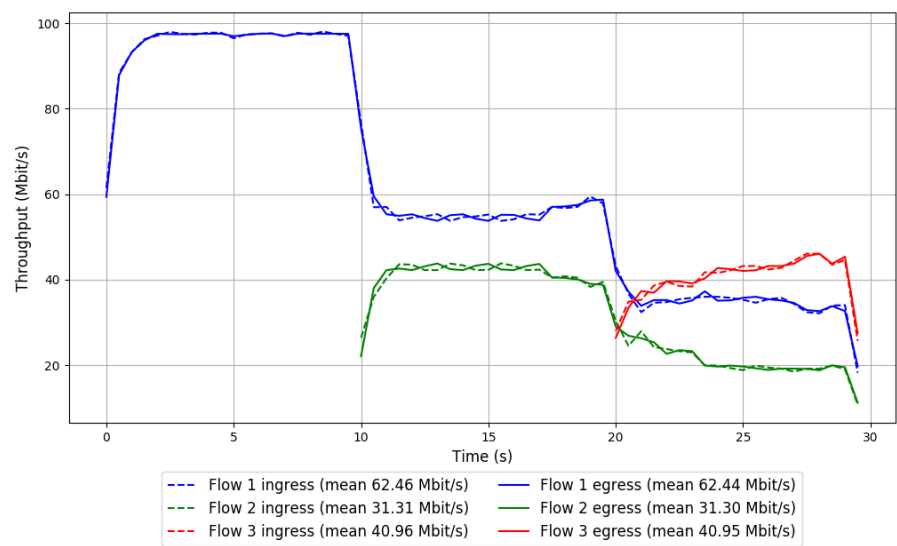
-- Flow 3:

Average throughput: 40.95 Mbit/s

95th percentile per-packet one-way delay: 34.065 ms

Loss rate: 0.01%

Run 4: Report of Indigo-calib — Data Link

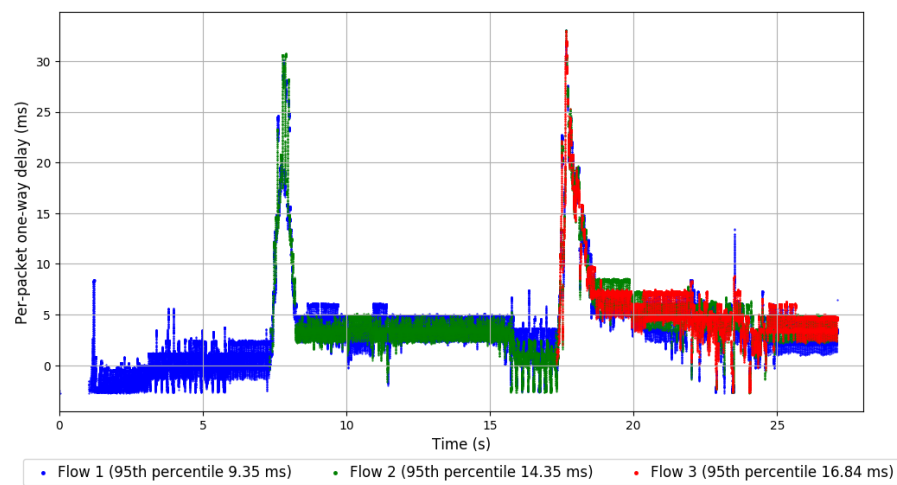
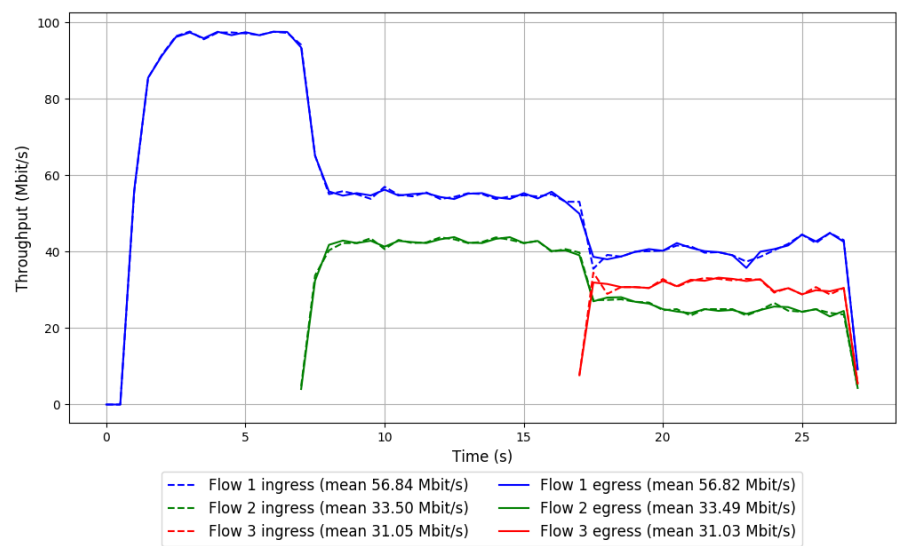


Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 12:41:46
End at: 2017-11-16 12:42:16
Local clock offset: 0.244 ms
Remote clock offset: -16.781 ms

Below is generated by plot.py at 2017-11-16 15:17:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 12.285 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 9.346 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 14.354 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 16.845 ms
Loss rate: 0.02%

Run 5: Report of Indigo-calib — Data Link

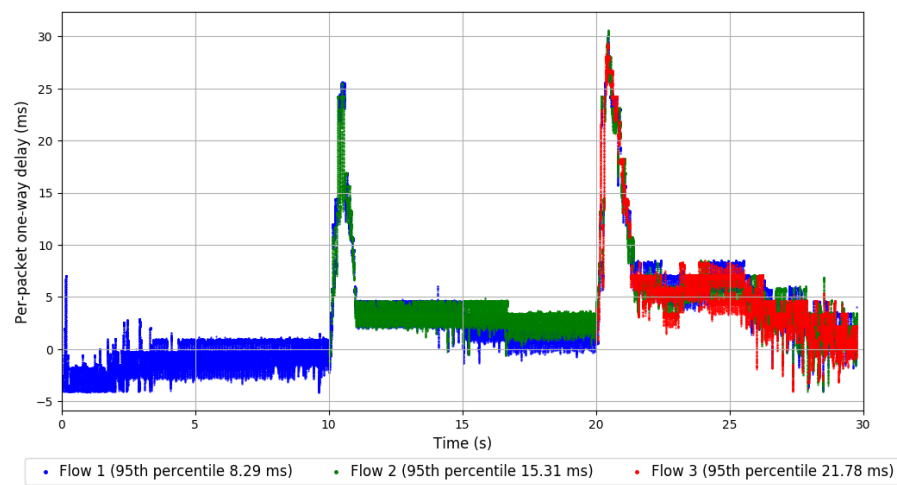
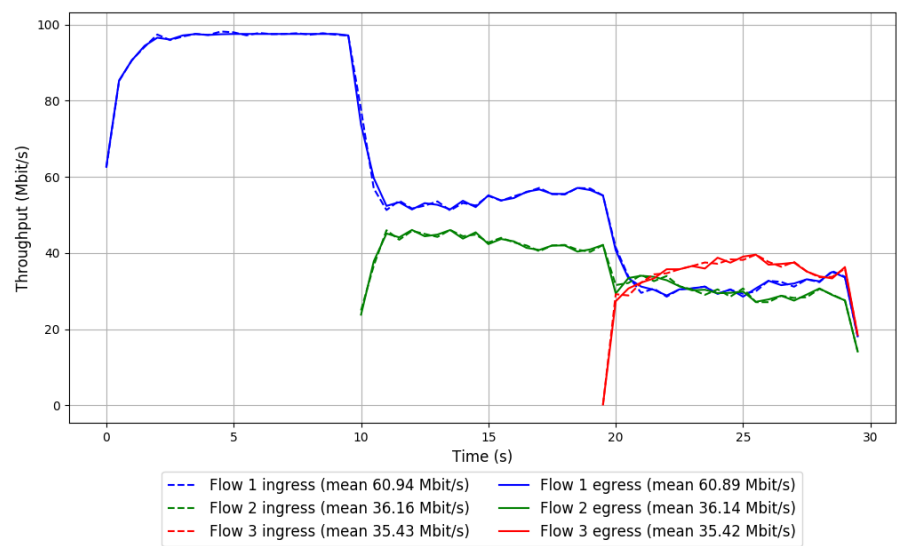


Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 13:01:46
End at: 2017-11-16 13:02:16
Local clock offset: 1.02 ms
Remote clock offset: -17.194 ms

Below is generated by plot.py at 2017-11-16 15:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 12.841 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 60.89 Mbit/s
95th percentile per-packet one-way delay: 8.285 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 15.315 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 35.42 Mbit/s
95th percentile per-packet one-way delay: 21.779 ms
Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

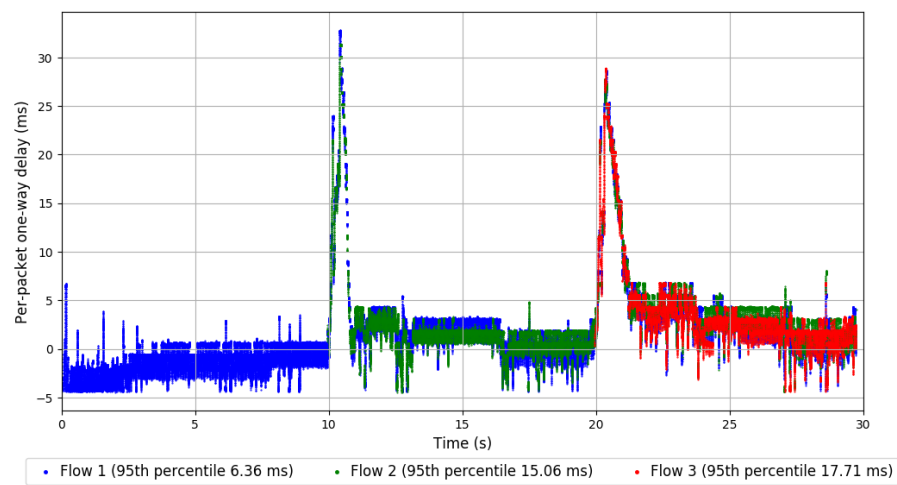
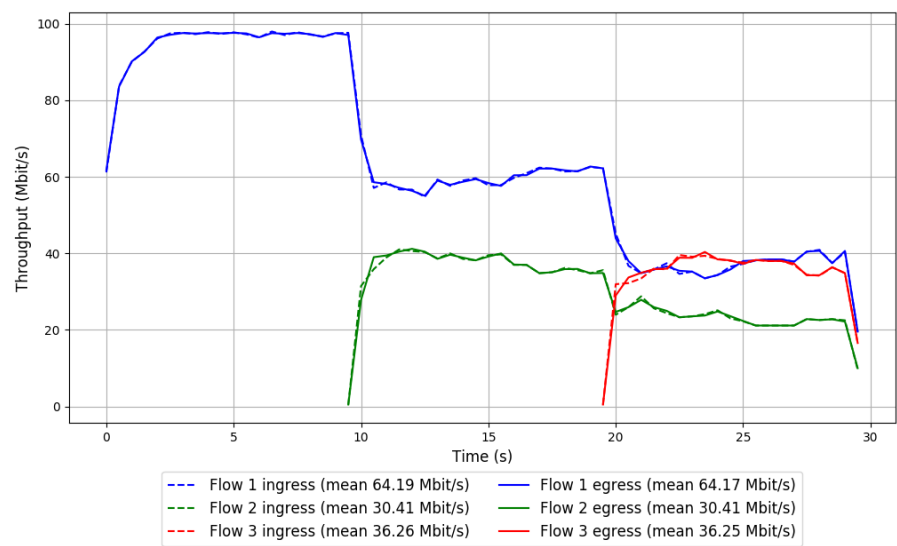


Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 13:22:42
End at: 2017-11-16 13:23:12
Local clock offset: 1.829 ms
Remote clock offset: -17.019 ms

Below is generated by plot.py at 2017-11-16 15:18:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 10.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.17 Mbit/s
95th percentile per-packet one-way delay: 6.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.41 Mbit/s
95th percentile per-packet one-way delay: 15.063 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 17.714 ms
Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

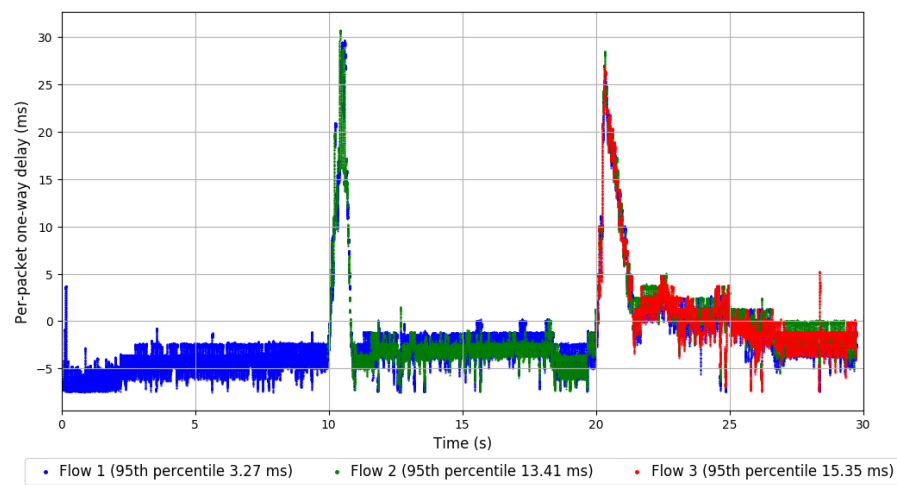
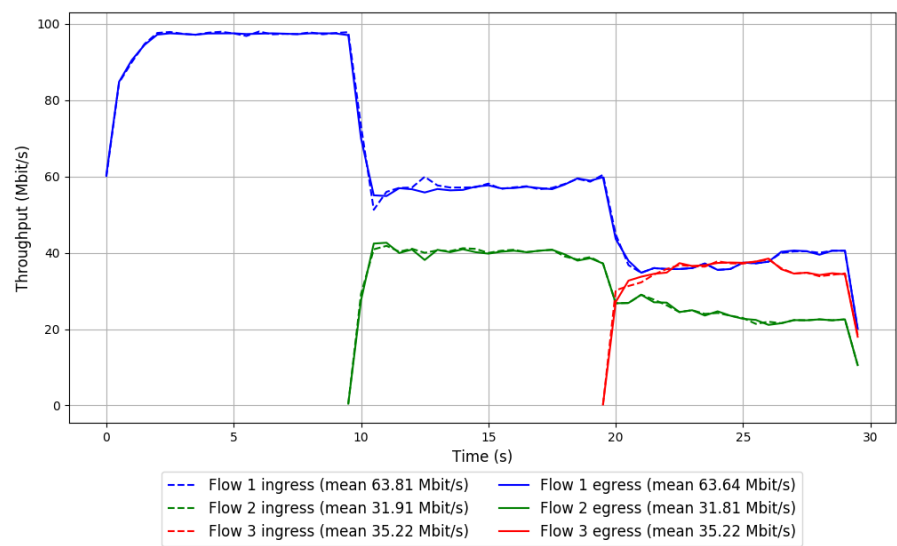


Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 13:45:08
End at: 2017-11-16 13:45:38
Local clock offset: 2.496 ms
Remote clock offset: -18.424 ms

Below is generated by plot.py at 2017-11-16 15:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 8.480 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 63.64 Mbit/s
95th percentile per-packet one-way delay: 3.268 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 13.413 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 35.22 Mbit/s
95th percentile per-packet one-way delay: 15.345 ms
Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

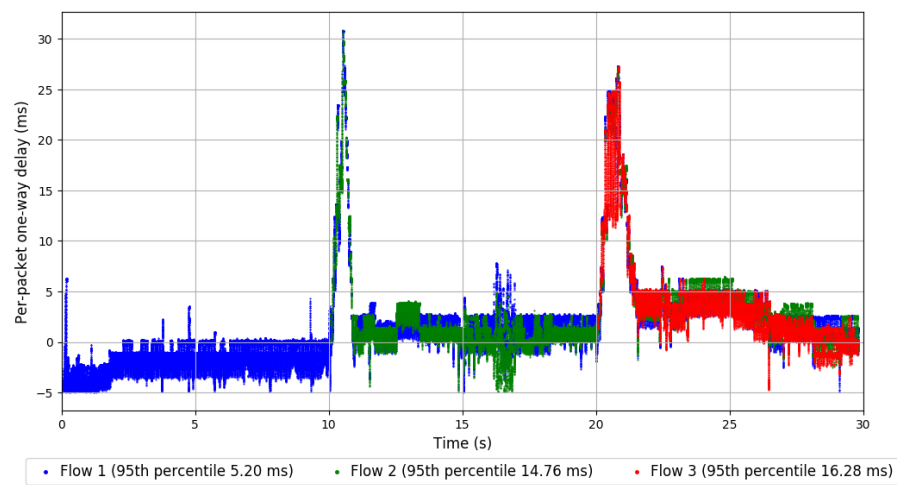
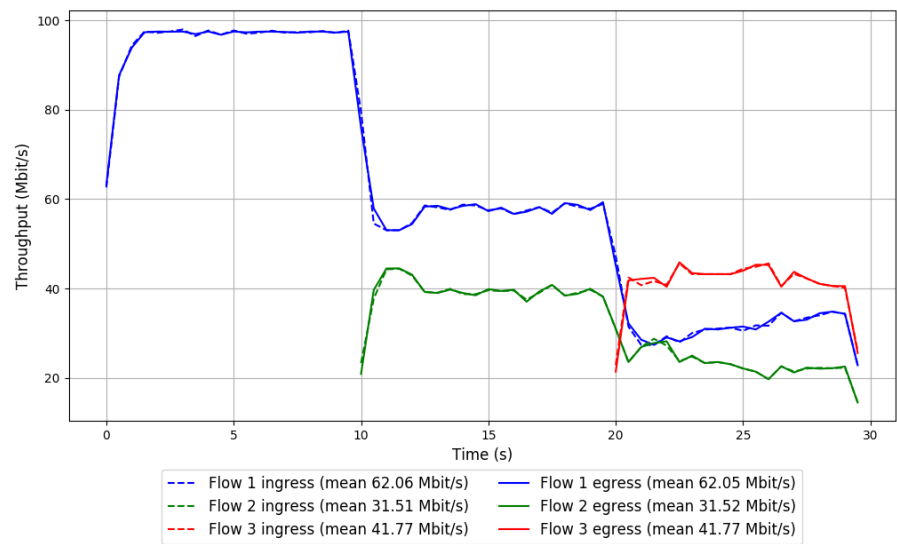


Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 14:06:18
End at: 2017-11-16 14:06:48
Local clock offset: -1.448 ms
Remote clock offset: -17.694 ms

Below is generated by plot.py at 2017-11-16 15:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 10.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.05 Mbit/s
95th percentile per-packet one-way delay: 5.202 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 14.762 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 16.280 ms
Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 14:28:13
End at: 2017-11-16 14:28:43
Local clock offset: -0.032 ms
Remote clock offset: -17.155 ms

Below is generated by plot.py at 2017-11-16 15:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 10.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.37 Mbit/s
95th percentile per-packet one-way delay: 9.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 11.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 12.370 ms
Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

