

Pantheon Report

Generated at 2017-11-16 14:30:20 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico 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).

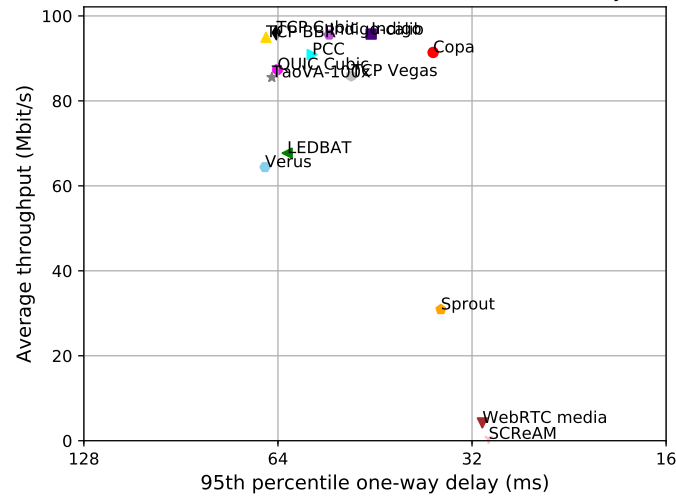
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

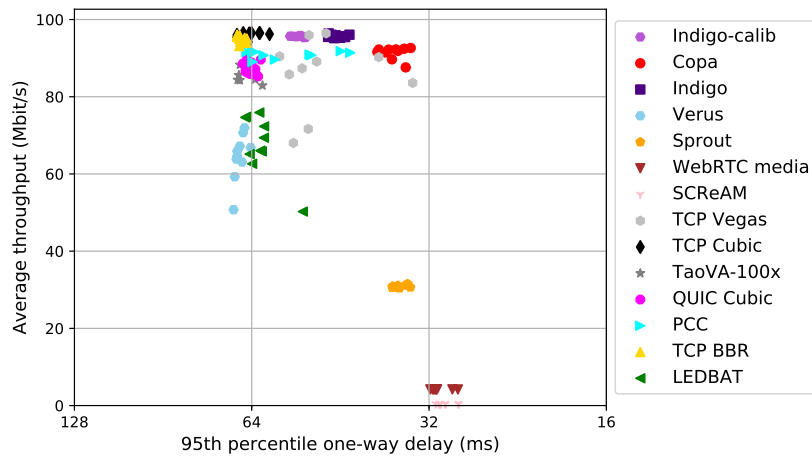
Git summary:

```
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 California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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	68.09	30.14	21.79	66.92	66.68	66.45	24.62	28.26	31.37
TCP Cubic	10	66.12	29.77	30.45	64.24	62.96	61.42	0.50	0.51	0.53
LEDBAT	10	41.49	28.62	21.74	60.02	63.26	61.88	0.12	0.15	0.09
PCC	10	78.15	14.14	10.18	56.18	58.04	57.45	2.92	3.40	2.65
QUIC Cubic	10	61.11	29.74	19.60	63.94	64.41	63.84	1.35	1.29	0.70
SCReAM	10	0.22	0.22	0.22	29.85	29.78	29.93	0.00	0.02	0.00
WebRTC media	10	2.25	1.41	0.54	30.61	30.79	31.00	0.00	0.00	0.00
Sprout	10	15.65	15.46	15.06	35.31	35.91	36.72	0.05	0.05	0.02
TaoVA-100x	8	52.35	39.63	27.30	62.99	66.16	66.31	15.03	26.84	20.99
TCP Vegas	10	53.36	31.55	34.66	49.20	44.14	39.37	0.64	0.35	0.21
Verus	10	42.95	21.63	22.35	67.04	67.17	65.05	40.44	45.87	35.63
Copa	10	63.33	32.67	25.00	36.99	36.49	36.57	0.03	0.01	0.01
Indigo	10	66.27	31.51	26.08	42.92	48.32	51.09	0.27	0.35	0.48
Indigo-calib	10	62.94	33.36	32.18	50.54	54.72	57.02	0.35	0.59	1.06

Run 1: Statistics of TCP BBR

Start at: 2017-11-16 10:47:24

End at: 2017-11-16 10:47:54

Local clock offset: 0.863 ms

Remote clock offset: 0.721 ms

Below is generated by plot.py at 2017-11-16 14:09:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 67.804 ms

Loss rate: 26.62%

-- Flow 1:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 67.682 ms

Loss rate: 25.50%

-- Flow 2:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 68.063 ms

Loss rate: 29.90%

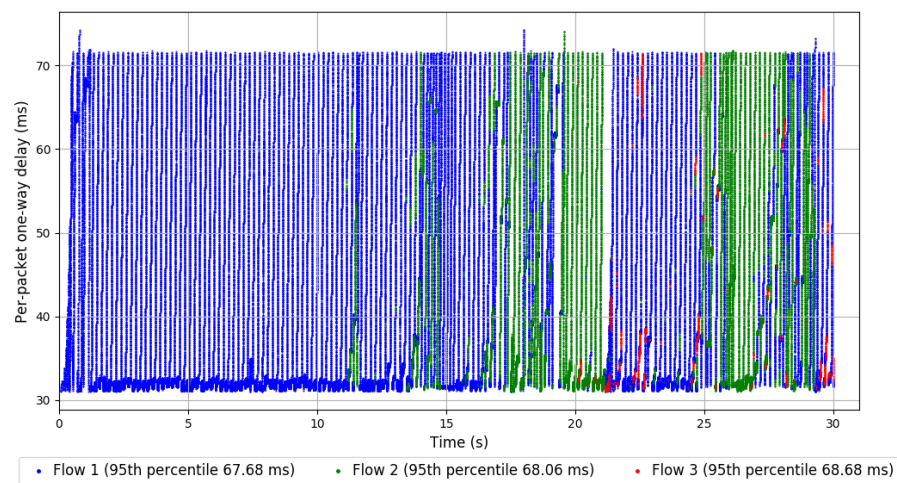
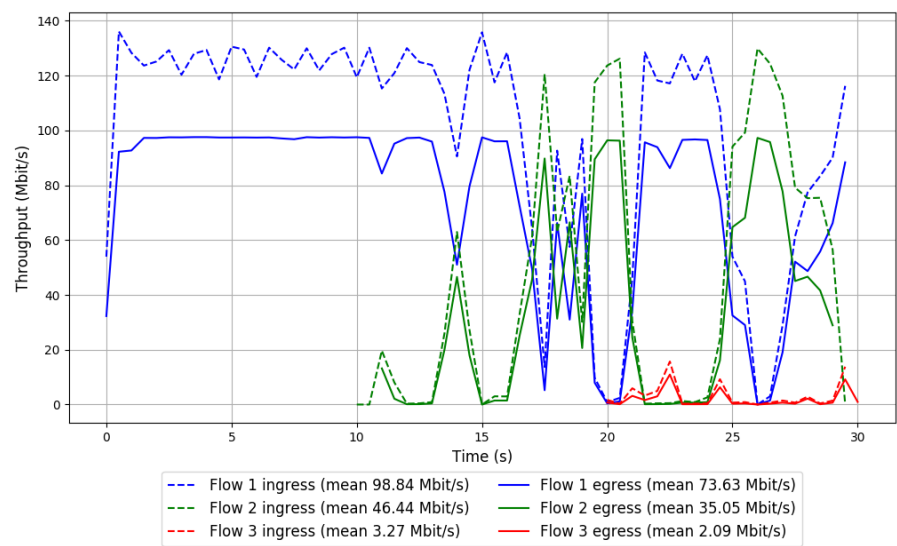
-- Flow 3:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 68.682 ms

Loss rate: 36.36%

Run 1: Report of TCP BBR — Data Link

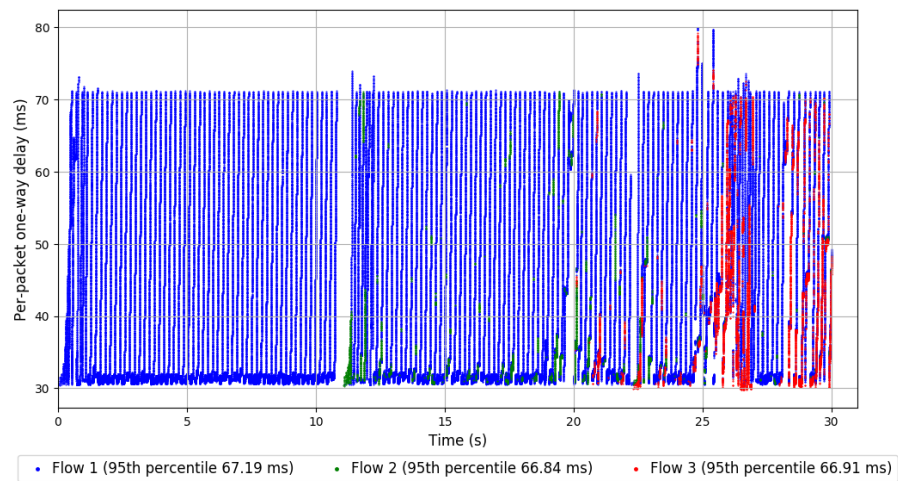
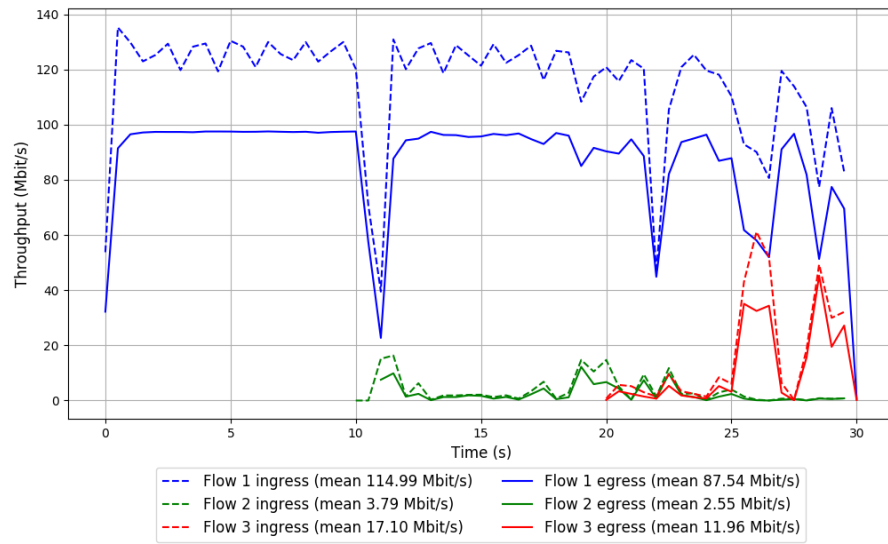


Run 2: Statistics of TCP BBR

Start at: 2017-11-16 11:06:28
End at: 2017-11-16 11:06:58
Local clock offset: 0.654 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2017-11-16 14:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.13 Mbit/s
95th percentile per-packet one-way delay: 67.170 ms
Loss rate: 24.35%
-- Flow 1:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 67.192 ms
Loss rate: 23.82%
-- Flow 2:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 66.843 ms
Loss rate: 36.17%
-- Flow 3:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 66.912 ms
Loss rate: 29.93%

Run 2: Report of TCP BBR — Data Link

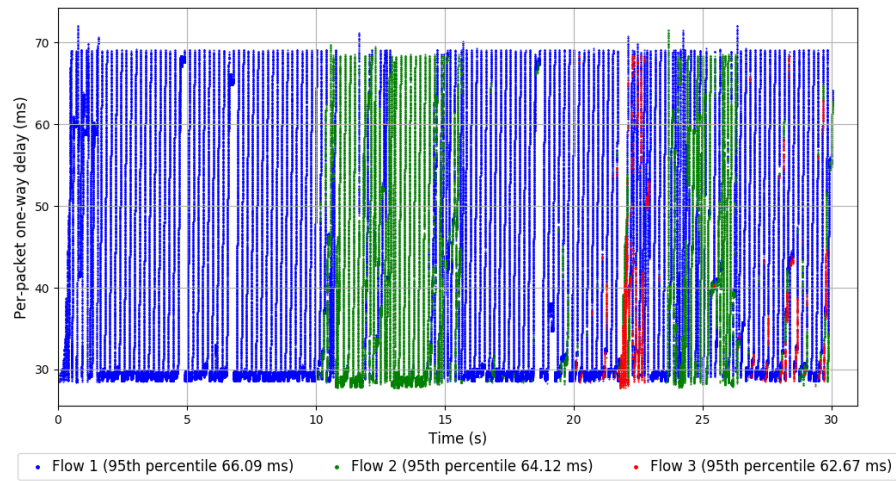
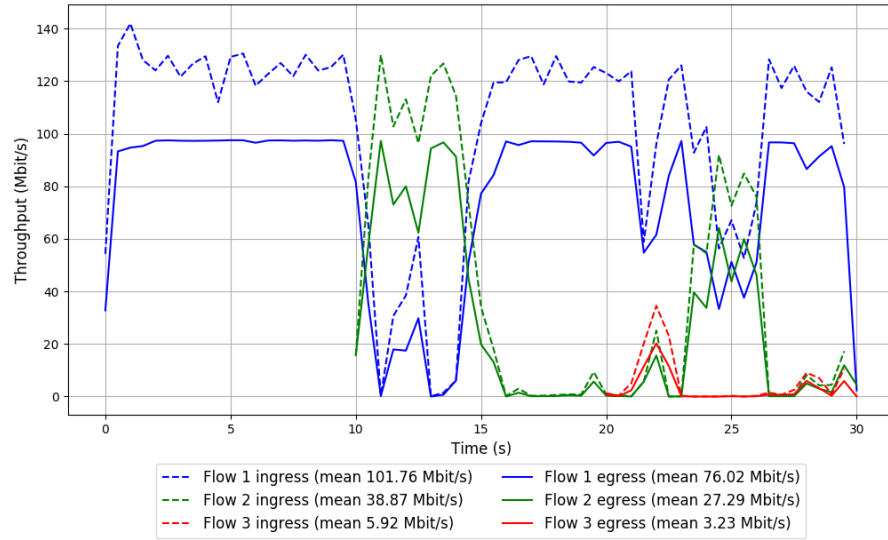


Run 3: Statistics of TCP BBR

Start at: 2017-11-16 11:25:47
End at: 2017-11-16 11:26:17
Local clock offset: 0.398 ms
Remote clock offset: -2.587 ms

Below is generated by plot.py at 2017-11-16 14:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 65.805 ms
Loss rate: 26.40%
-- Flow 1:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 66.088 ms
Loss rate: 25.20%
-- Flow 2:
Average throughput: 27.29 Mbit/s
95th percentile per-packet one-way delay: 64.117 ms
Loss rate: 29.68%
-- Flow 3:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 62.666 ms
Loss rate: 45.33%

Run 3: Report of TCP BBR — Data Link

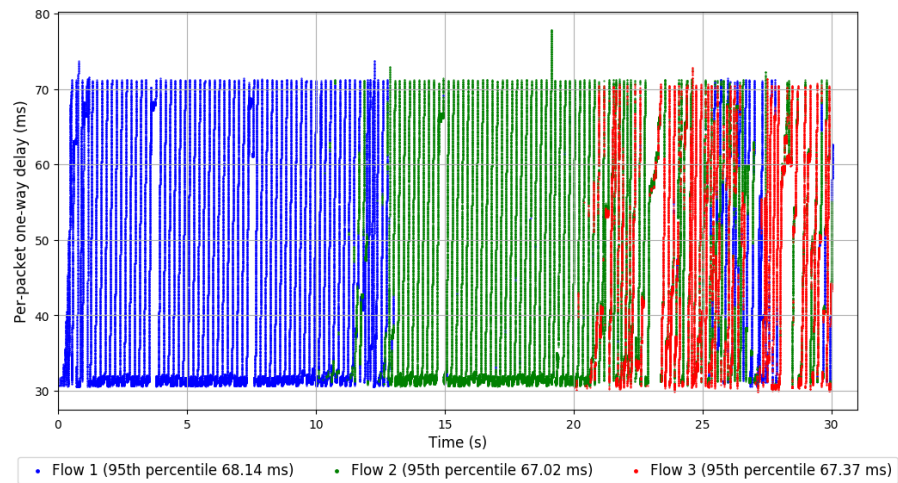
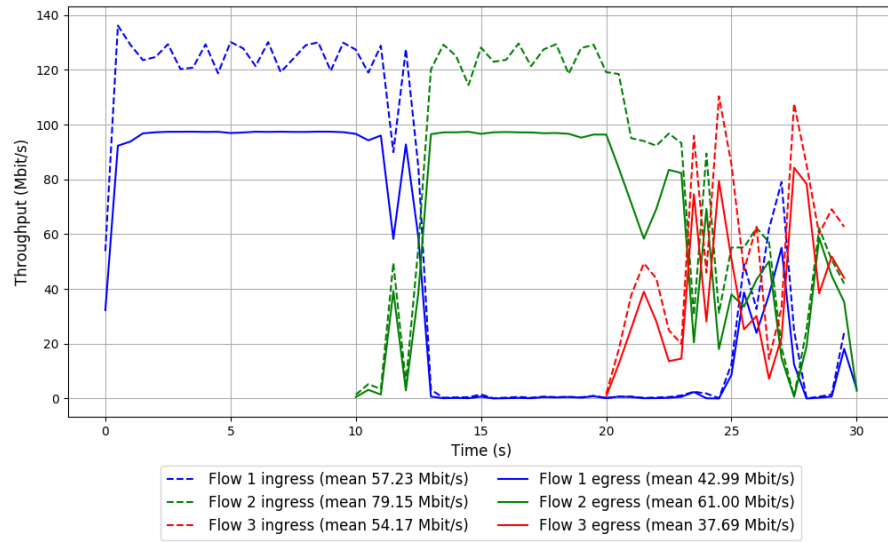


Run 4: Statistics of TCP BBR

Start at: 2017-11-16 11:44:56
End at: 2017-11-16 11:45:26
Local clock offset: 0.211 ms
Remote clock offset: -0.357 ms

Below is generated by plot.py at 2017-11-16 14:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 67.758 ms
Loss rate: 24.77%
-- Flow 1:
Average throughput: 42.99 Mbit/s
95th percentile per-packet one-way delay: 68.141 ms
Loss rate: 24.81%
-- Flow 2:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 67.020 ms
Loss rate: 22.84%
-- Flow 3:
Average throughput: 37.69 Mbit/s
95th percentile per-packet one-way delay: 67.367 ms
Loss rate: 30.33%

Run 4: Report of TCP BBR — Data Link

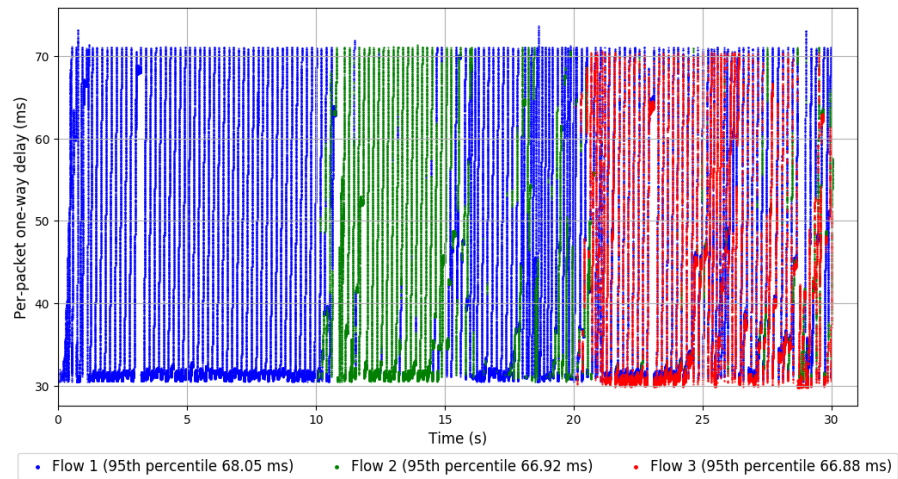
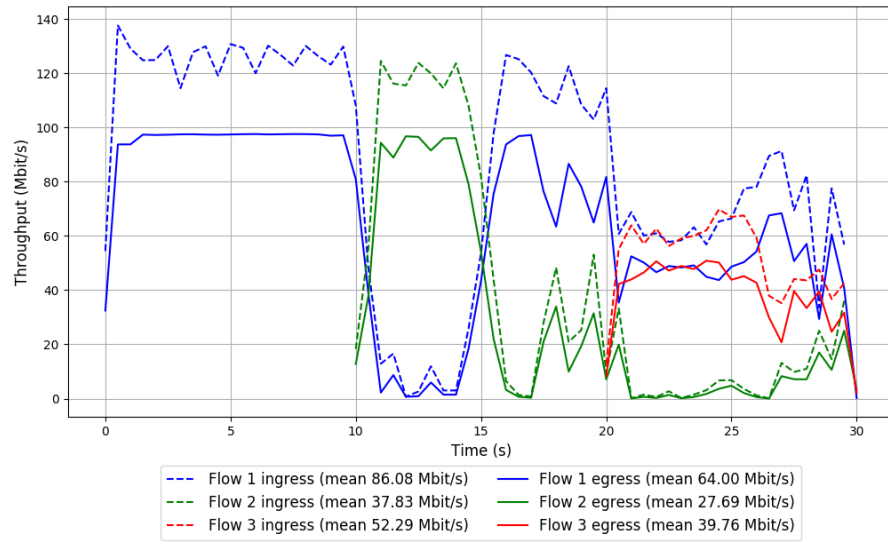


Run 5: Statistics of TCP BBR

Start at: 2017-11-16 12:03:59
End at: 2017-11-16 12:04:29
Local clock offset: 0.213 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2017-11-16 14:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 67.630 ms
Loss rate: 25.60%
-- Flow 1:
Average throughput: 64.00 Mbit/s
95th percentile per-packet one-way delay: 68.050 ms
Loss rate: 25.59%
-- Flow 2:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 66.924 ms
Loss rate: 26.70%
-- Flow 3:
Average throughput: 39.76 Mbit/s
95th percentile per-packet one-way delay: 66.877 ms
Loss rate: 24.05%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 12:23:41

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

Local clock offset: 0.079 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2017-11-16 14:09:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 67.094 ms

Loss rate: 23.42%

-- Flow 1:

Average throughput: 42.98 Mbit/s

95th percentile per-packet one-way delay: 67.396 ms

Loss rate: 25.80%

-- Flow 2:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 66.841 ms

Loss rate: 20.84%

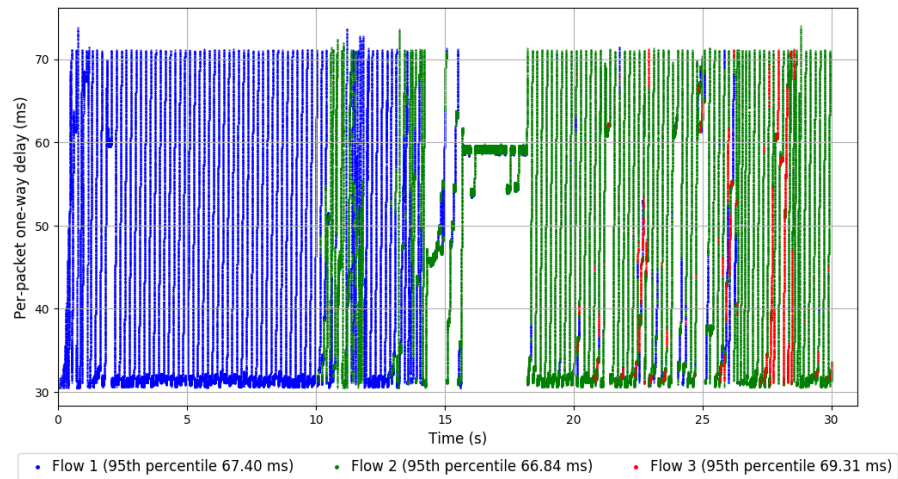
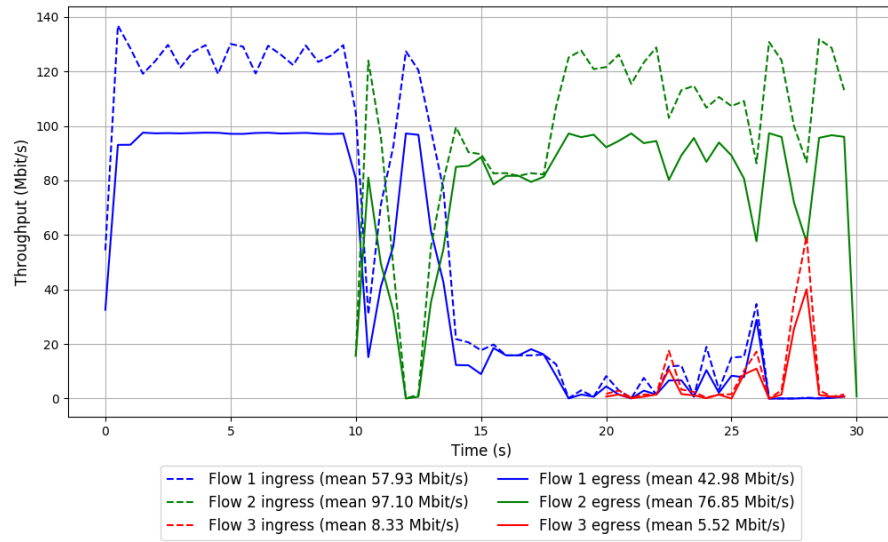
-- Flow 3:

Average throughput: 5.52 Mbit/s

95th percentile per-packet one-way delay: 69.309 ms

Loss rate: 33.96%

Run 6: Report of TCP BBR — Data Link

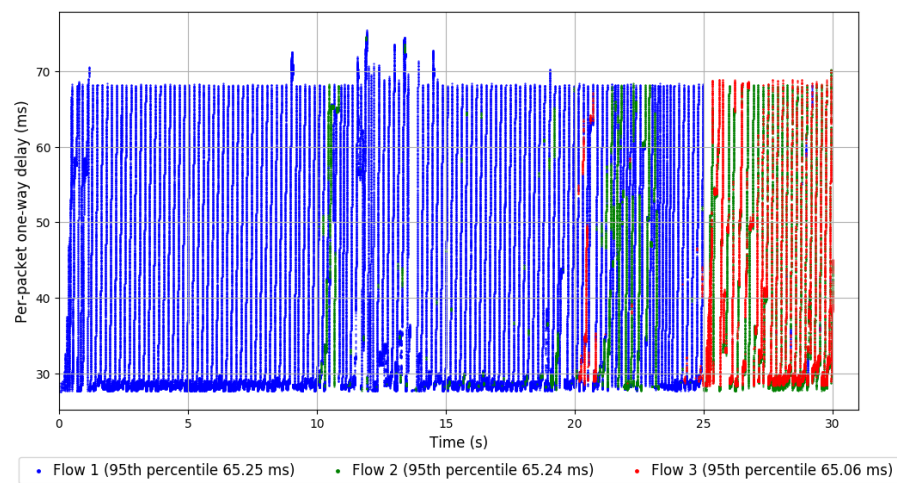
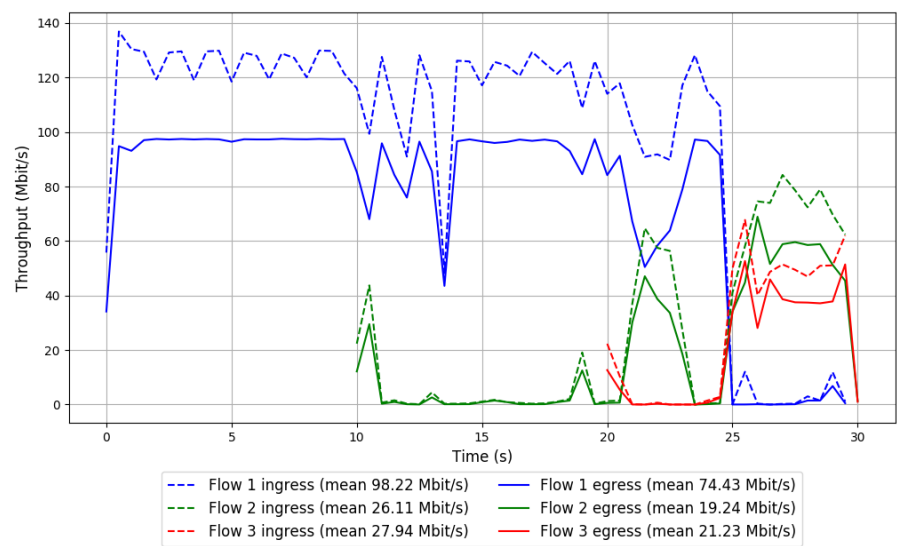


Run 7: Statistics of TCP BBR

Start at: 2017-11-16 12:43:00
End at: 2017-11-16 12:43:30
Local clock offset: 0.125 ms
Remote clock offset: -2.031 ms

Below is generated by plot.py at 2017-11-16 14:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 65.244 ms
Loss rate: 24.60%
-- Flow 1:
Average throughput: 74.43 Mbit/s
95th percentile per-packet one-way delay: 65.254 ms
Loss rate: 24.35%
-- Flow 2:
Average throughput: 19.24 Mbit/s
95th percentile per-packet one-way delay: 65.240 ms
Loss rate: 26.35%
-- Flow 3:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 65.061 ms
Loss rate: 23.90%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 13:02:24

End at: 2017-11-16 13:02:54

Local clock offset: 0.178 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2017-11-16 14:09:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 66.972 ms

Loss rate: 23.98%

-- Flow 1:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 66.982 ms

Loss rate: 23.78%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 66.970 ms

Loss rate: 23.69%

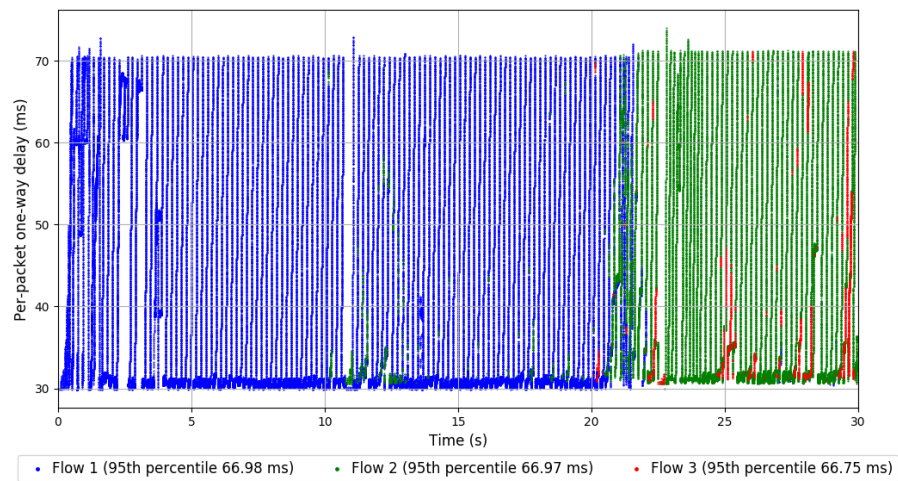
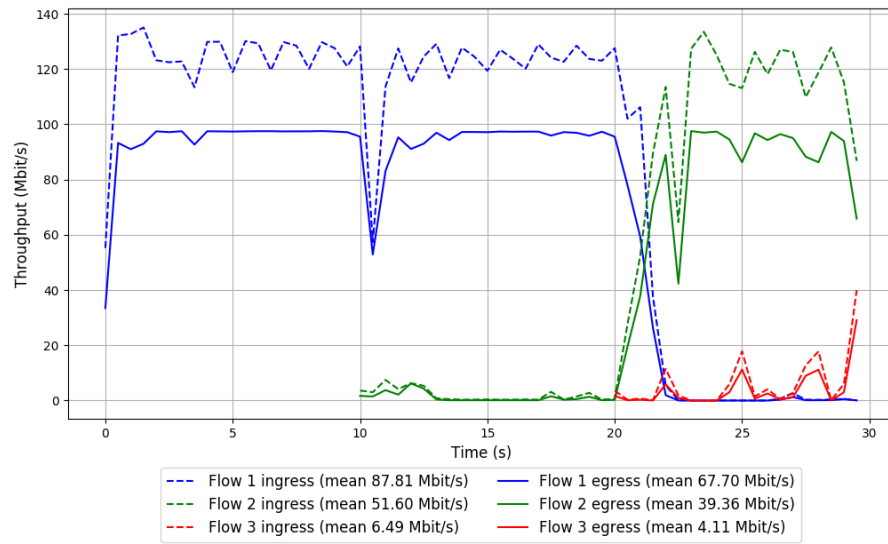
-- Flow 3:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 66.754 ms

Loss rate: 37.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 13:21:52

End at: 2017-11-16 13:22:22

Local clock offset: 0.086 ms

Remote clock offset: 0.655 ms

Below is generated by plot.py at 2017-11-16 14:11:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.97 Mbit/s

95th percentile per-packet one-way delay: 67.228 ms

Loss rate: 24.48%

-- Flow 1:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 67.173 ms

Loss rate: 23.51%

-- Flow 2:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 68.012 ms

Loss rate: 27.88%

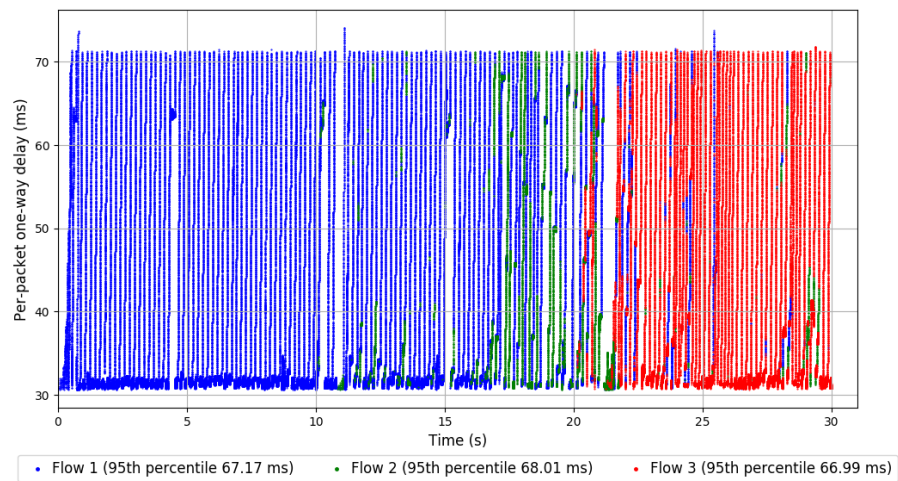
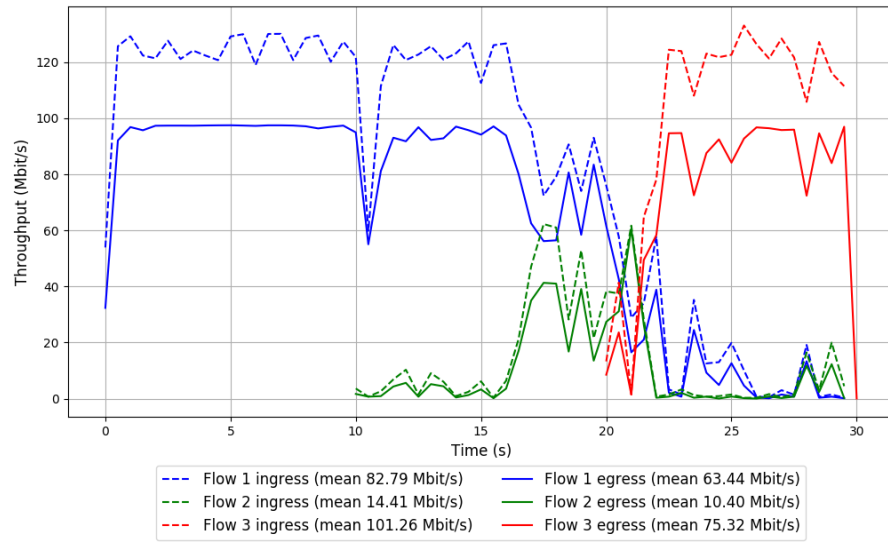
-- Flow 3:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 66.993 ms

Loss rate: 25.88%

Run 9: Report of TCP BBR — Data Link

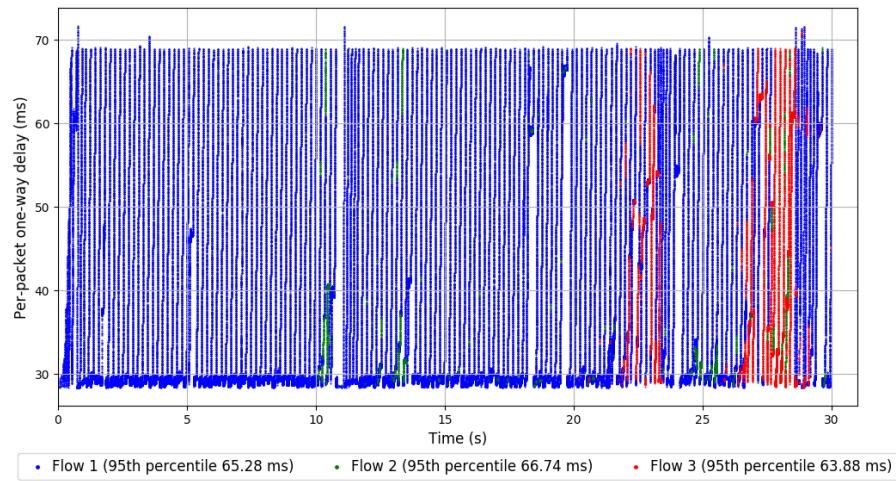
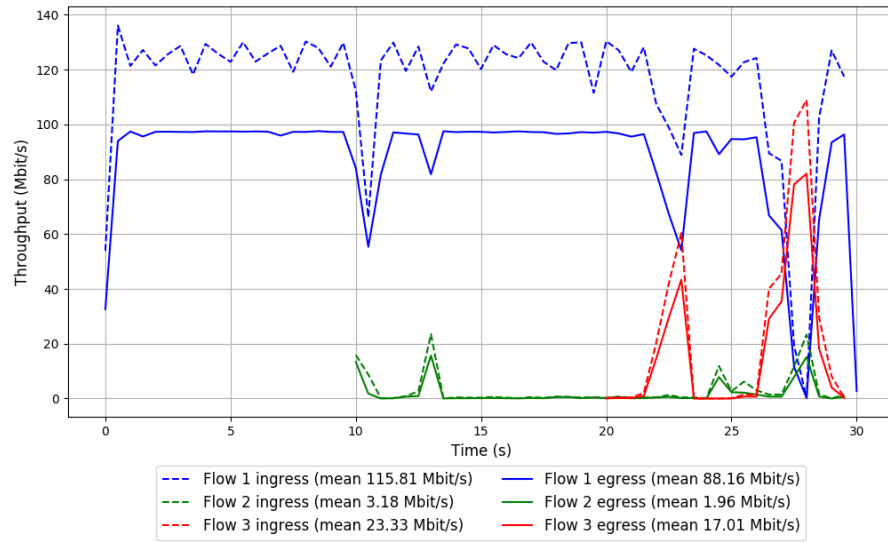


Run 10: Statistics of TCP BBR

Start at: 2017-11-16 13:41:28
End at: 2017-11-16 13:41:58
Local clock offset: 0.143 ms
Remote clock offset: -1.991 ms

Below is generated by plot.py at 2017-11-16 14:11:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 65.240 ms
Loss rate: 24.26%
-- Flow 1:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 65.277 ms
Loss rate: 23.82%
-- Flow 2:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 66.738 ms
Loss rate: 38.55%
-- Flow 3:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 63.875 ms
Loss rate: 26.99%

Run 10: Report of TCP BBR — Data Link

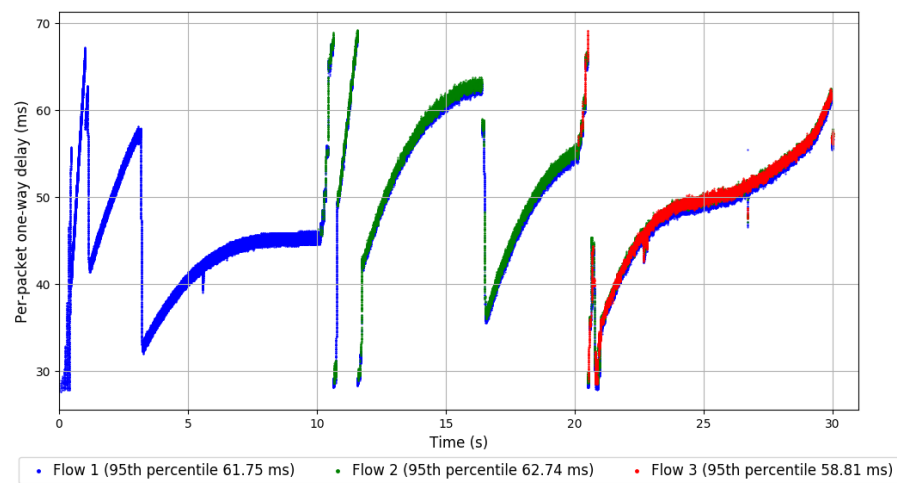
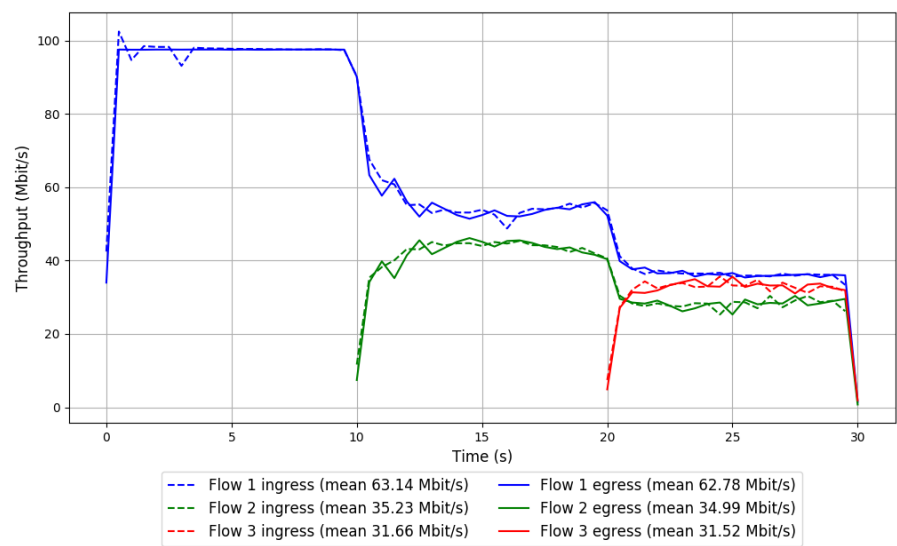


Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 10:32:25
End at: 2017-11-16 10:32:55
Local clock offset: 0.91 ms
Remote clock offset: -1.273 ms

Below is generated by plot.py at 2017-11-16 14:11:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 62.009 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 62.78 Mbit/s
95th percentile per-packet one-way delay: 61.749 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 62.742 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 58.811 ms
Loss rate: 0.40%

Run 1: Report of TCP Cubic — Data Link

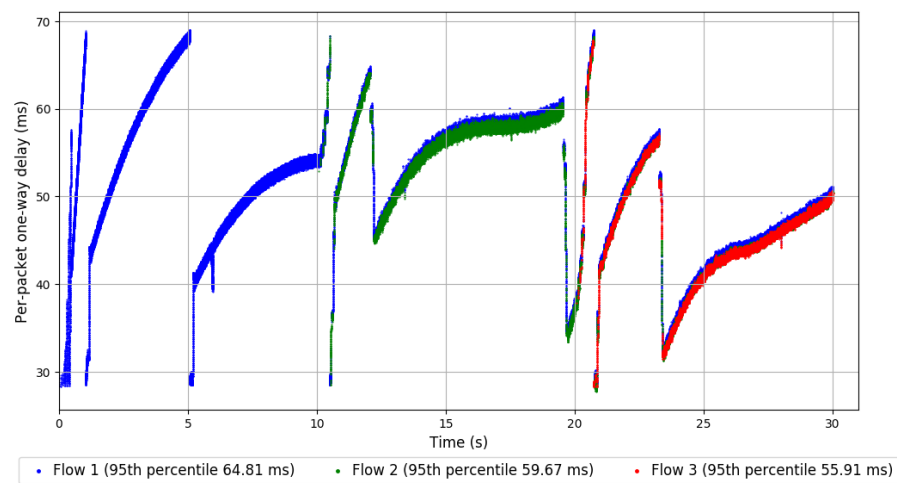
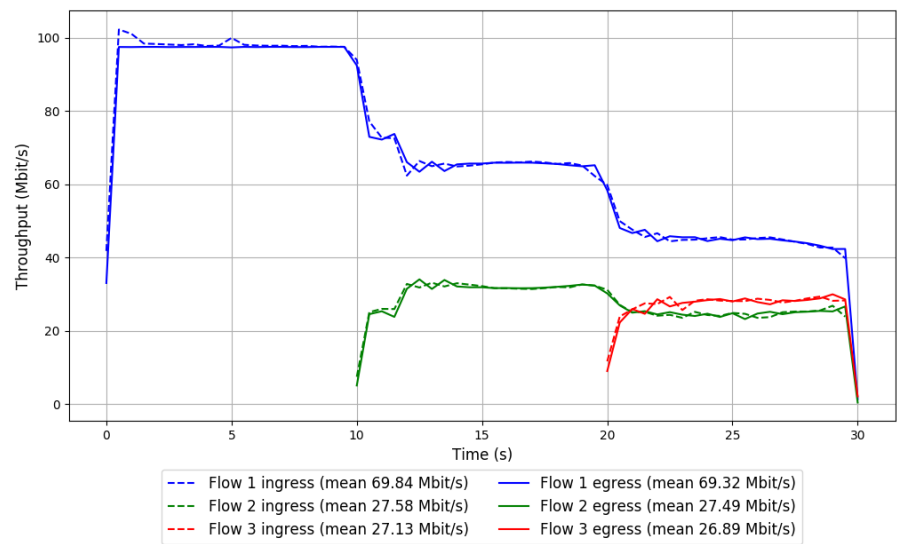


Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 10:51:37
End at: 2017-11-16 10:52:07
Local clock offset: 0.797 ms
Remote clock offset: -2.034 ms

Below is generated by plot.py at 2017-11-16 14:11:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 64.038 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 69.32 Mbit/s
95th percentile per-packet one-way delay: 64.809 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 27.49 Mbit/s
95th percentile per-packet one-way delay: 59.671 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 26.89 Mbit/s
95th percentile per-packet one-way delay: 55.912 ms
Loss rate: 0.78%

Run 2: Report of TCP Cubic — Data Link

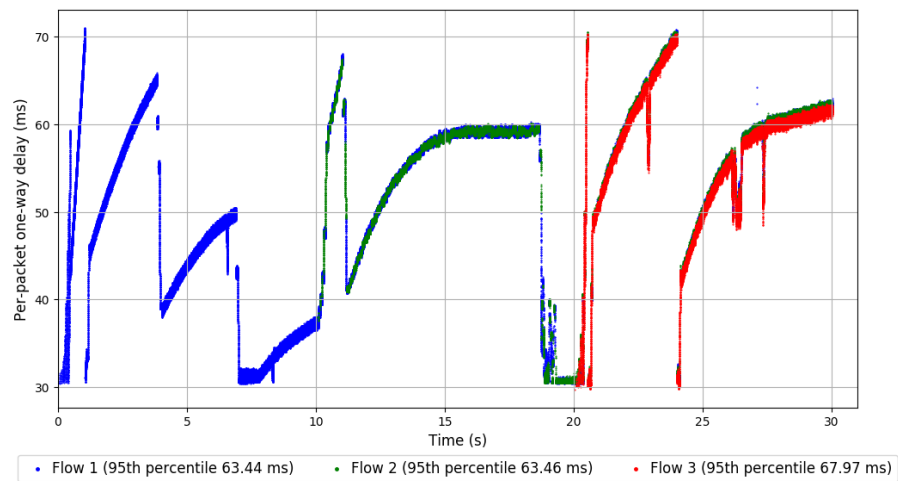
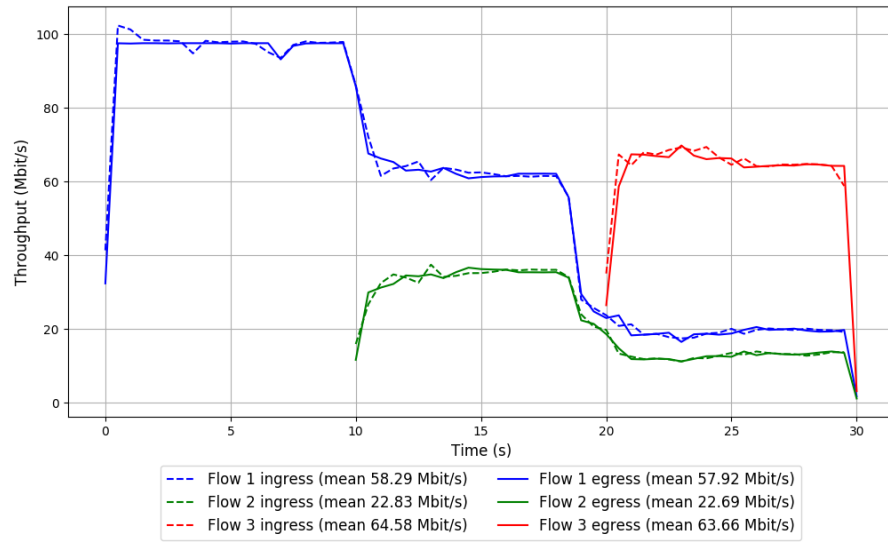


Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 11:10:50
End at: 2017-11-16 11:11:20
Local clock offset: 0.601 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2017-11-16 14:11:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 64.848 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 63.442 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 63.461 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 67.965 ms
Loss rate: 1.11%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 11:29:59

End at: 2017-11-16 11:30:29

Local clock offset: 0.418 ms

Remote clock offset: -0.57 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 59.700 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 66.86 Mbit/s

95th percentile per-packet one-way delay: 60.037 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 27.52 Mbit/s

95th percentile per-packet one-way delay: 53.292 ms

Loss rate: 0.63%

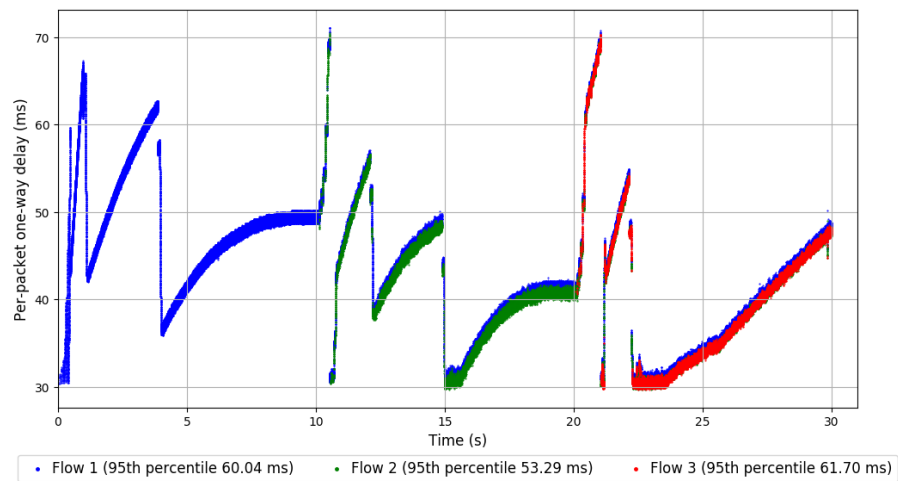
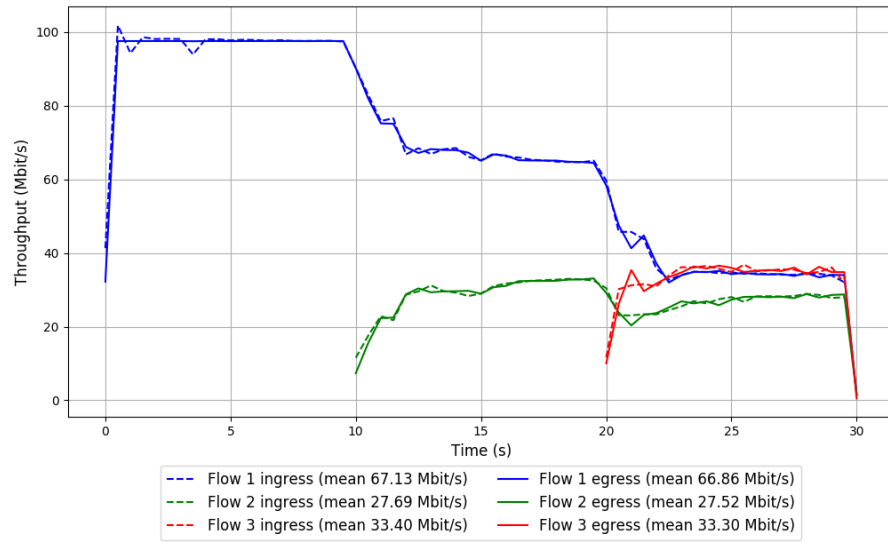
-- Flow 3:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 61.698 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 11:49:09

End at: 2017-11-16 11:49:39

Local clock offset: 0.281 ms

Remote clock offset: 0.08 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.48 Mbit/s

95th percentile per-packet one-way delay: 62.116 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 62.029 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 62.458 ms

Loss rate: 0.53%

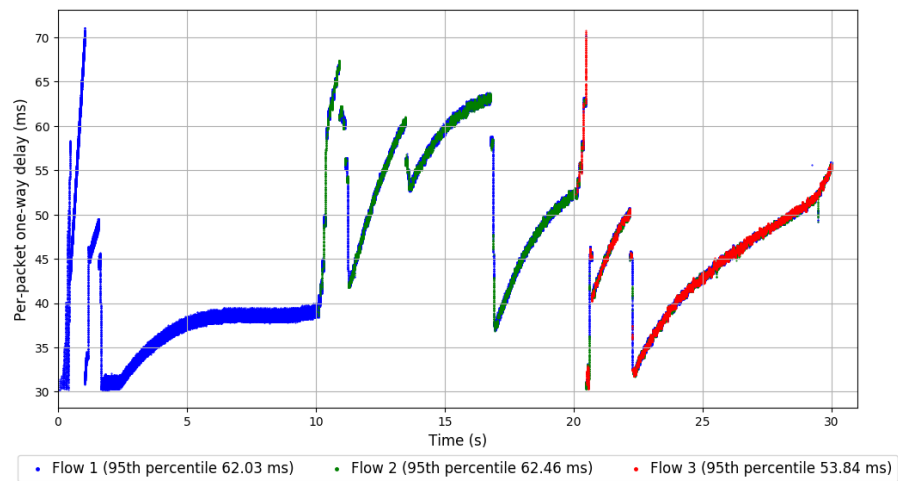
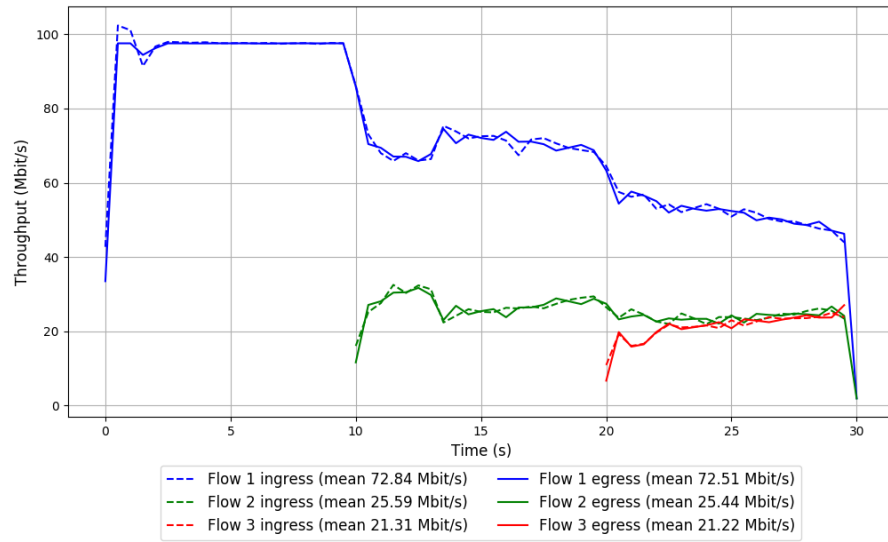
-- Flow 3:

Average throughput: 21.22 Mbit/s

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

Loss rate: 0.40%

Run 5: Report of TCP Cubic — Data Link

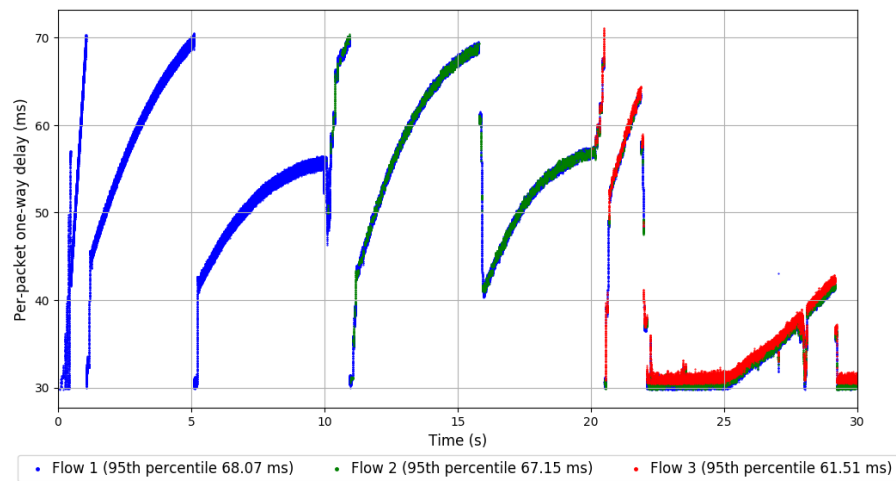
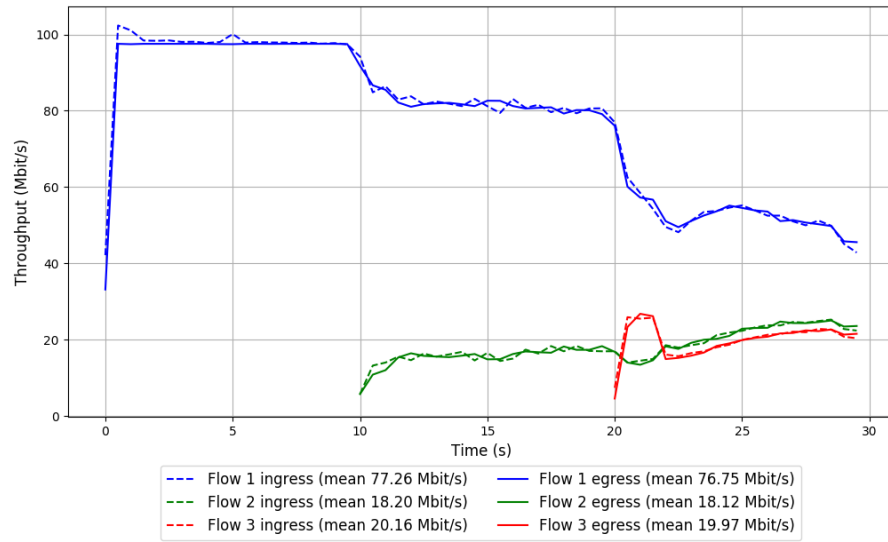


Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 12:08:23
End at: 2017-11-16 12:08:53
Local clock offset: 0.173 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2017-11-16 14:11:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 67.872 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 68.074 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 67.147 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 61.510 ms
Loss rate: 1.21%

Run 6: Report of TCP Cubic — Data Link

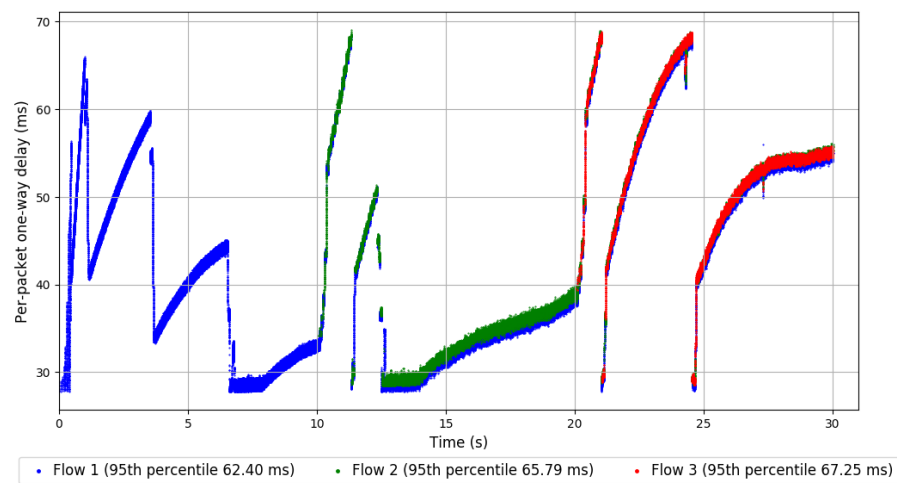
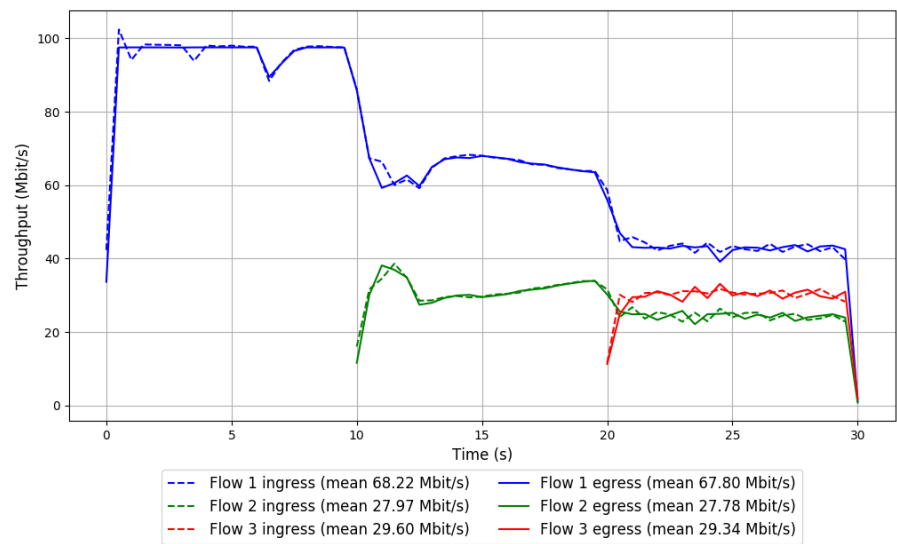


Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 12:27:55
End at: 2017-11-16 12:28:25
Local clock offset: 0.062 ms
Remote clock offset: -2.074 ms

Below is generated by plot.py at 2017-11-16 14:12:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 64.326 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 67.80 Mbit/s
95th percentile per-packet one-way delay: 62.396 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 27.78 Mbit/s
95th percentile per-packet one-way delay: 65.787 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 67.255 ms
Loss rate: 0.72%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 12:47:20

End at: 2017-11-16 12:47:50

Local clock offset: 0.033 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2017-11-16 14:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 67.801 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 67.788 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 37.97 Mbit/s

95th percentile per-packet one-way delay: 68.228 ms

Loss rate: 0.40%

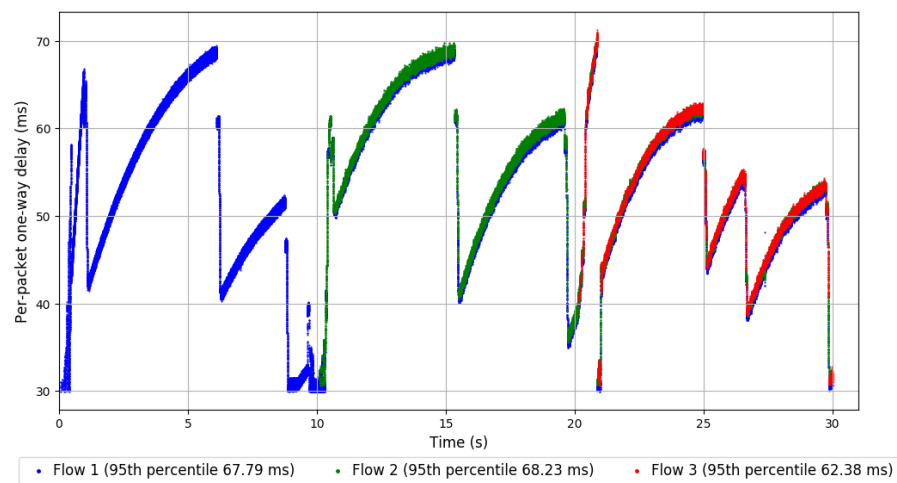
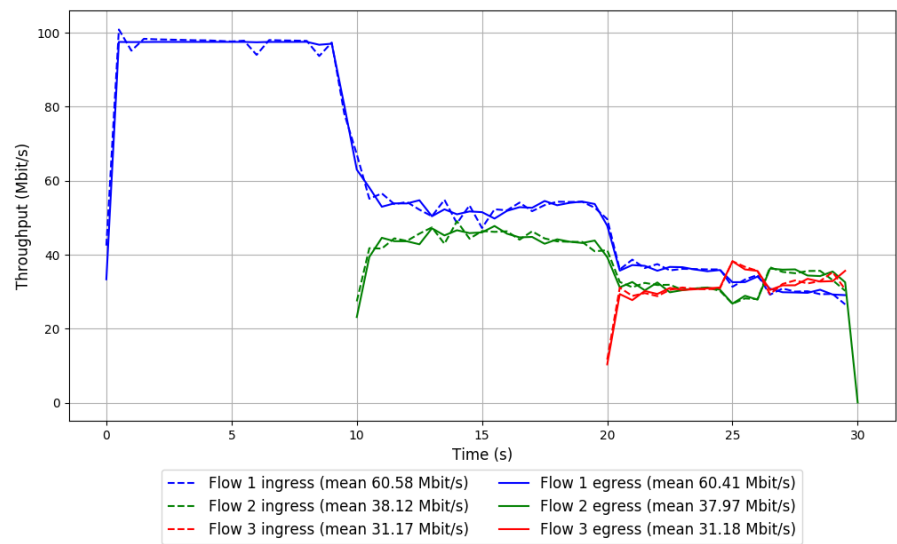
-- Flow 3:

Average throughput: 31.18 Mbit/s

95th percentile per-packet one-way delay: 62.380 ms

Loss rate: 0.05%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 13:06:40

End at: 2017-11-16 13:07:10

Local clock offset: 0.073 ms

Remote clock offset: 0.692 ms

Below is generated by plot.py at 2017-11-16 14:12:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 66.152 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 67.080 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 43.97 Mbit/s

95th percentile per-packet one-way delay: 64.562 ms

Loss rate: 0.54%

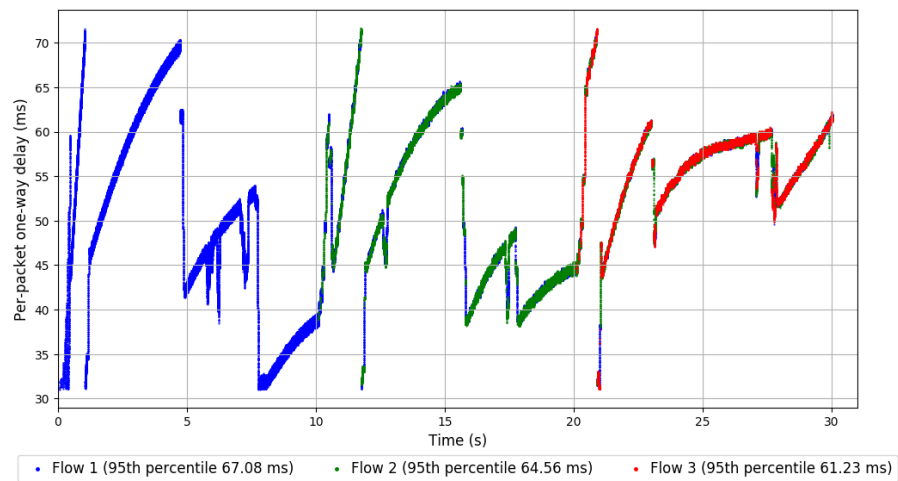
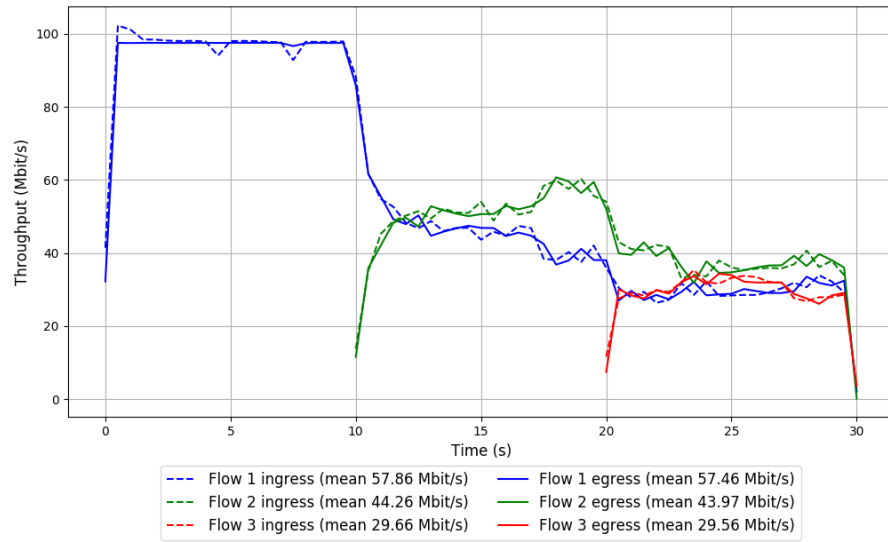
-- Flow 3:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 61.229 ms

Loss rate: 0.17%

Run 9: Report of TCP Cubic — Data Link

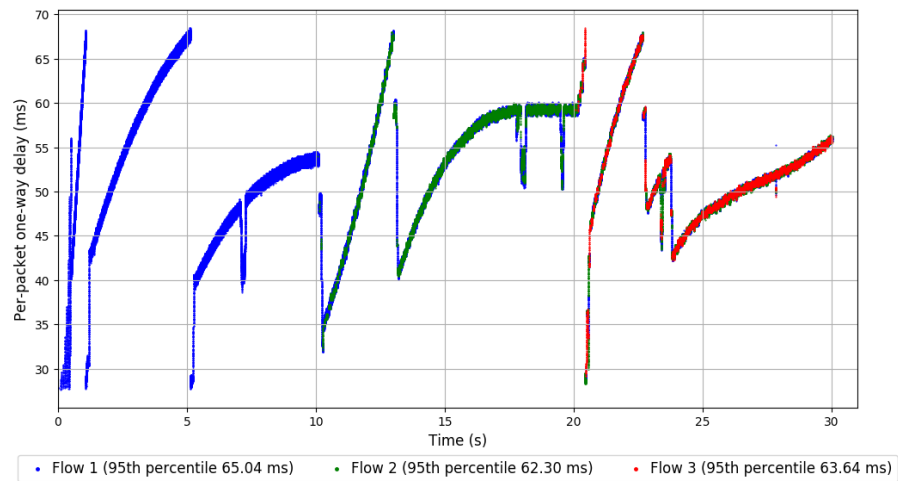
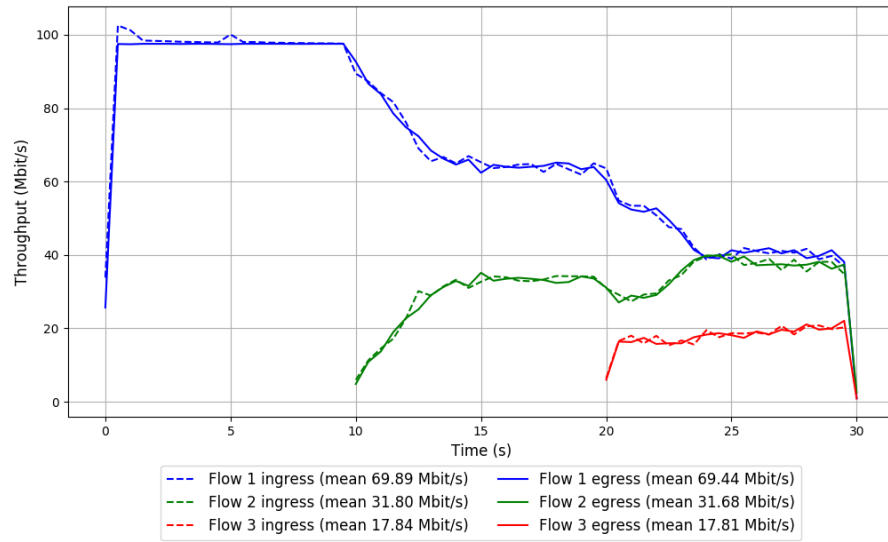


Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 13:26:05
End at: 2017-11-16 13:26:35
Local clock offset: 0.151 ms
Remote clock offset: -1.554 ms

Below is generated by plot.py at 2017-11-16 14:12:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 64.623 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 69.44 Mbit/s
95th percentile per-packet one-way delay: 65.036 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 62.296 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link

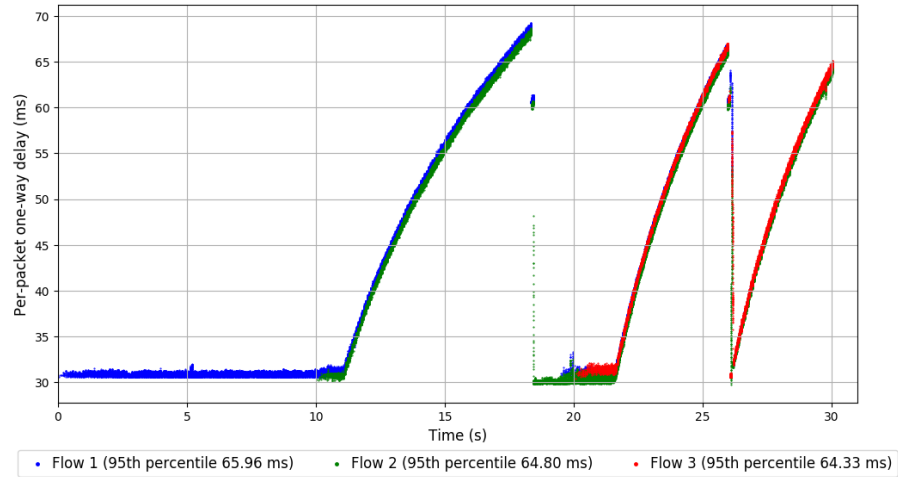
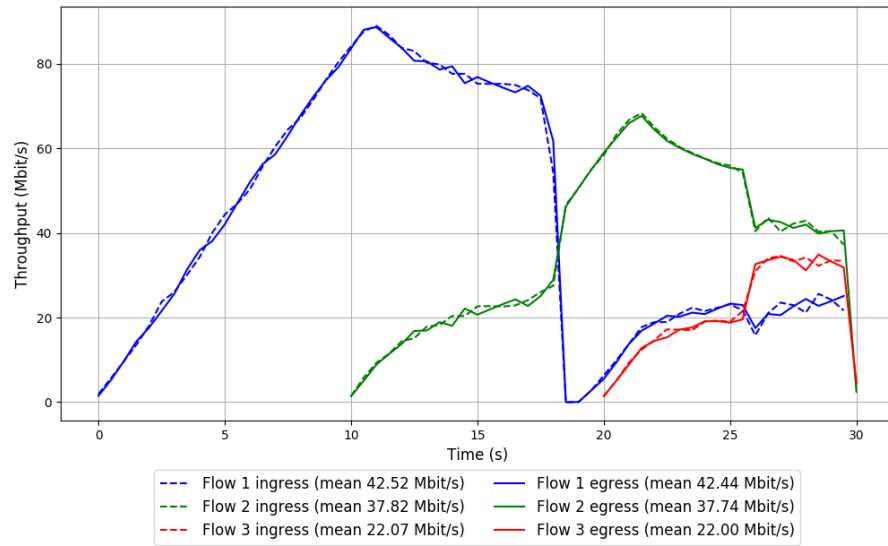


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 10:41:56
End at: 2017-11-16 10:42:26
Local clock offset: 0.915 ms
Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2017-11-16 14:12:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.84 Mbit/s
95th percentile per-packet one-way delay: 65.279 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 65.964 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 64.803 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 64.330 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

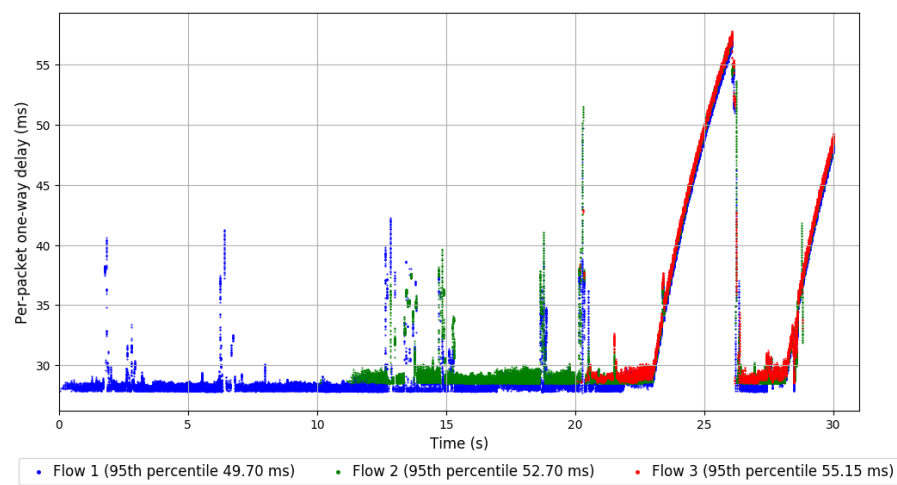
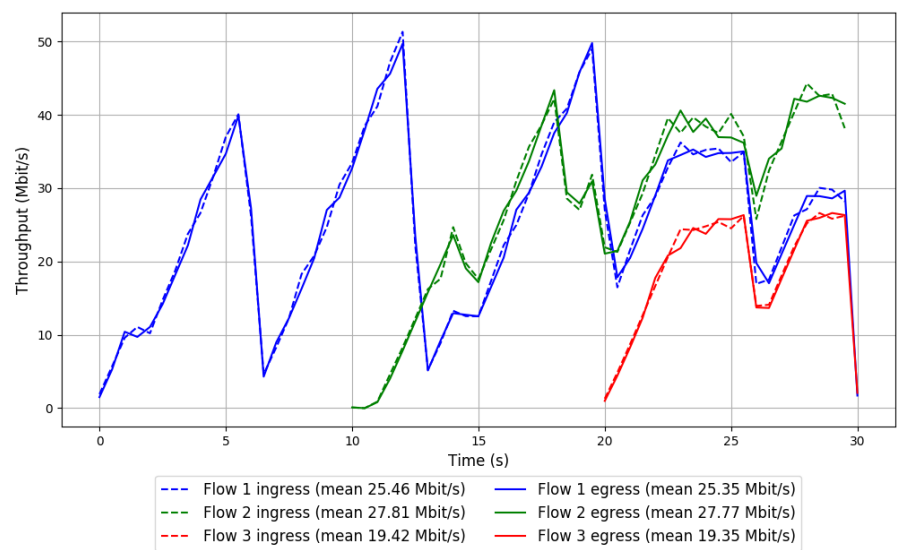


Run 2: Statistics of LEDBAT

Start at: 2017-11-16 11:01:02
End at: 2017-11-16 11:01:32
Local clock offset: 0.583 ms
Remote clock offset: -2.178 ms

Below is generated by plot.py at 2017-11-16 14:12:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 52.412 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 25.35 Mbit/s
95th percentile per-packet one-way delay: 49.704 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 52.701 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 55.149 ms
Loss rate: 0.18%

Run 2: Report of LEDBAT — Data Link

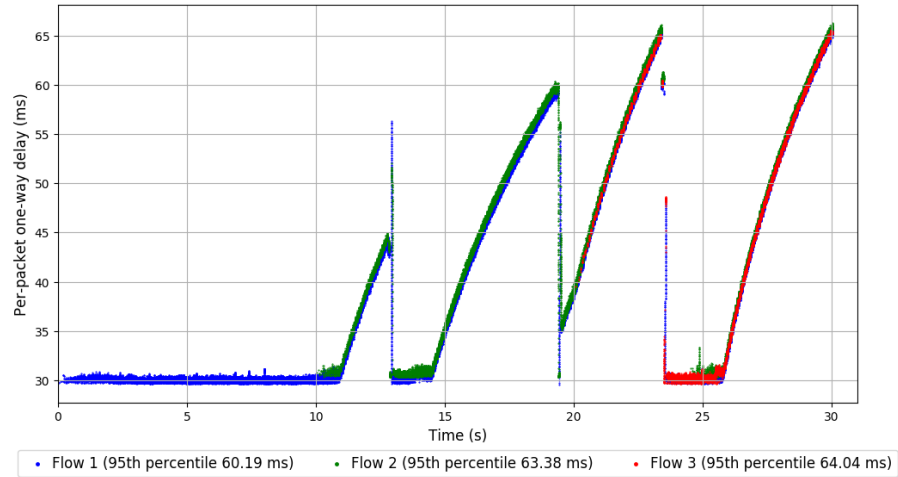
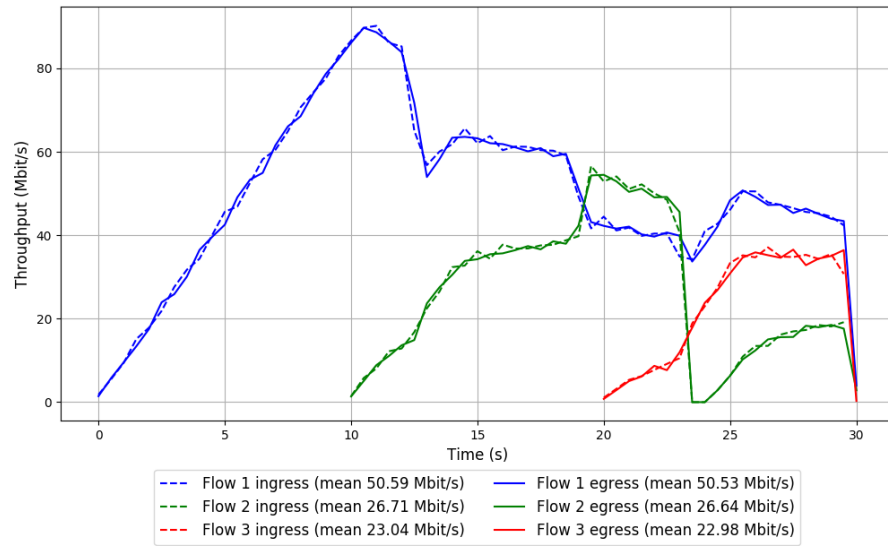


Run 3: Statistics of LEDBAT

Start at: 2017-11-16 11:20:19
End at: 2017-11-16 11:20:49
Local clock offset: 0.537 ms
Remote clock offset: -0.564 ms

Below is generated by plot.py at 2017-11-16 14:12:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.91 Mbit/s
95th percentile per-packet one-way delay: 62.135 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.53 Mbit/s
95th percentile per-packet one-way delay: 60.187 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 63.379 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 22.98 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-16 11:39:29

End at: 2017-11-16 11:39:59

Local clock offset: 0.347 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2017-11-16 14:12:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.64 Mbit/s

95th percentile per-packet one-way delay: 63.898 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 61.155 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 65.893 ms

Loss rate: 0.12%

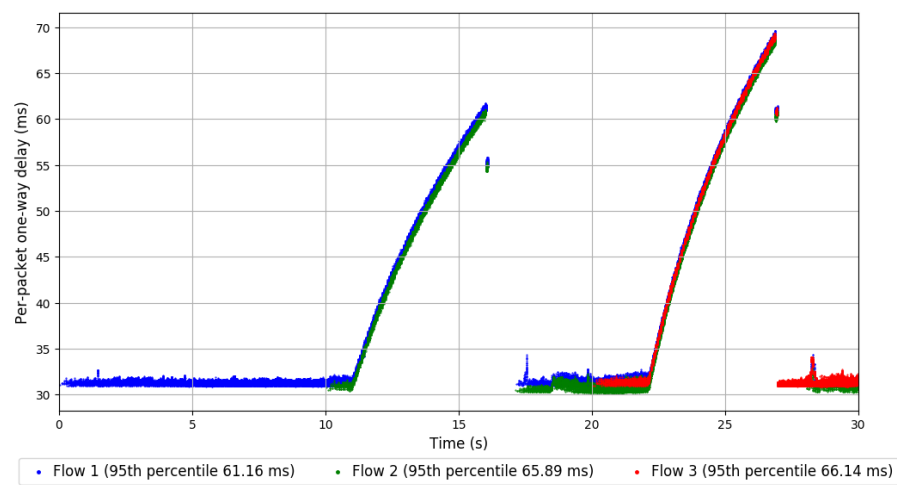
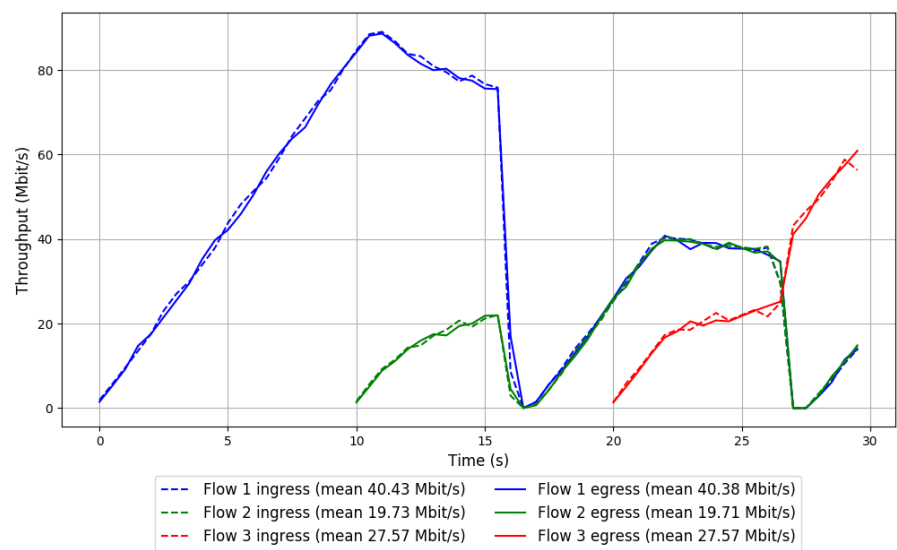
-- Flow 3:

Average throughput: 27.57 Mbit/s

95th percentile per-packet one-way delay: 66.143 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

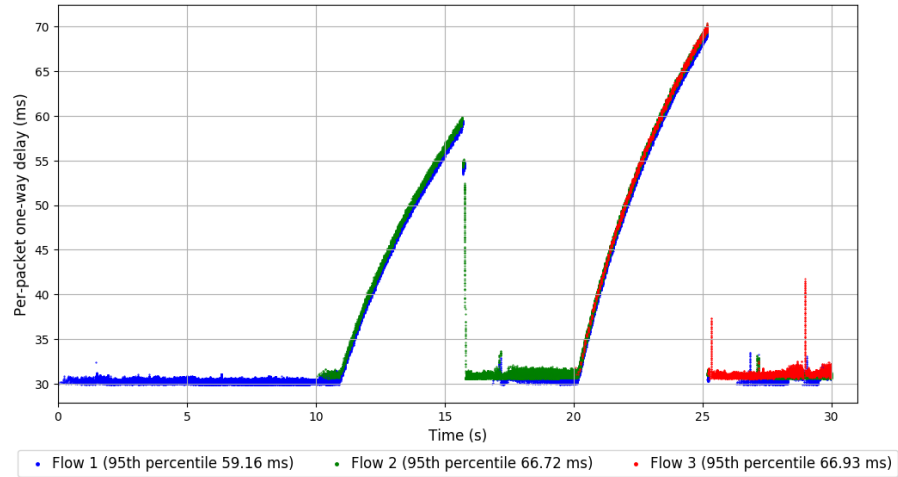
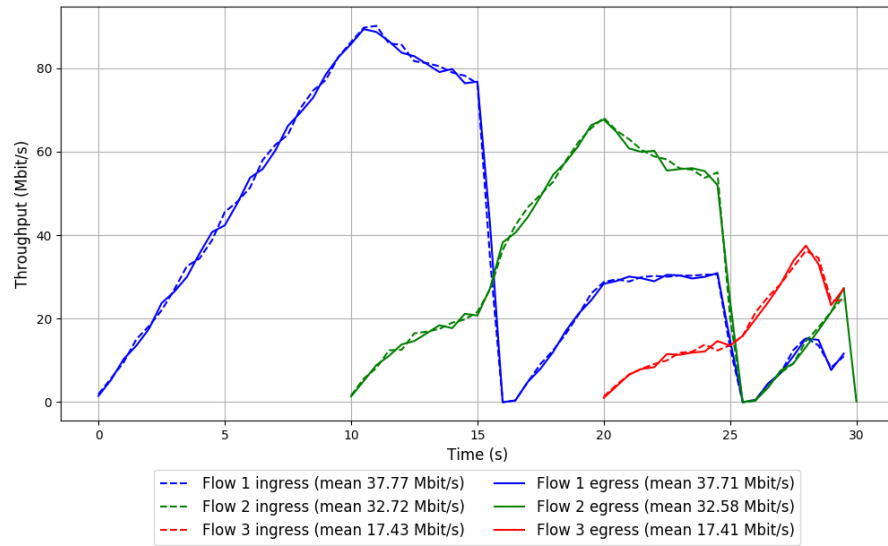


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 11:58:34
End at: 2017-11-16 11:59:04
Local clock offset: 0.191 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2017-11-16 14:12:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 64.530 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 59.164 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 66.724 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 17.41 Mbit/s
95th percentile per-packet one-way delay: 66.931 ms
Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link

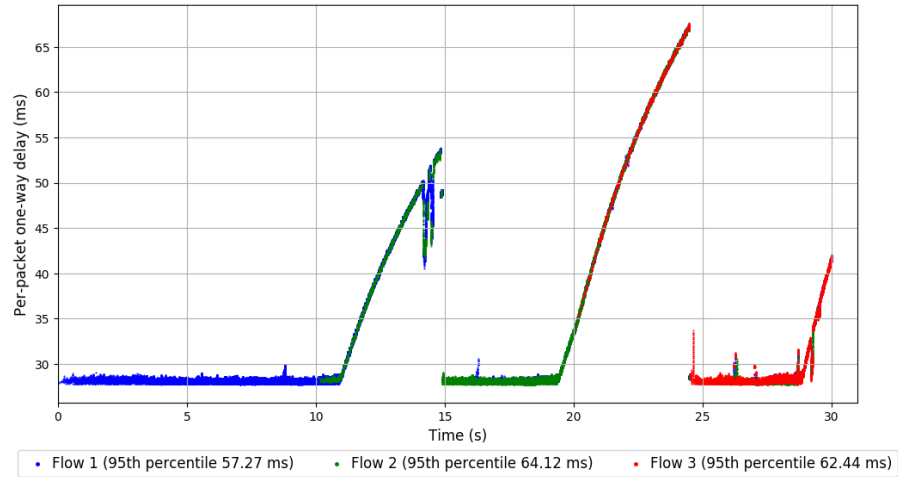
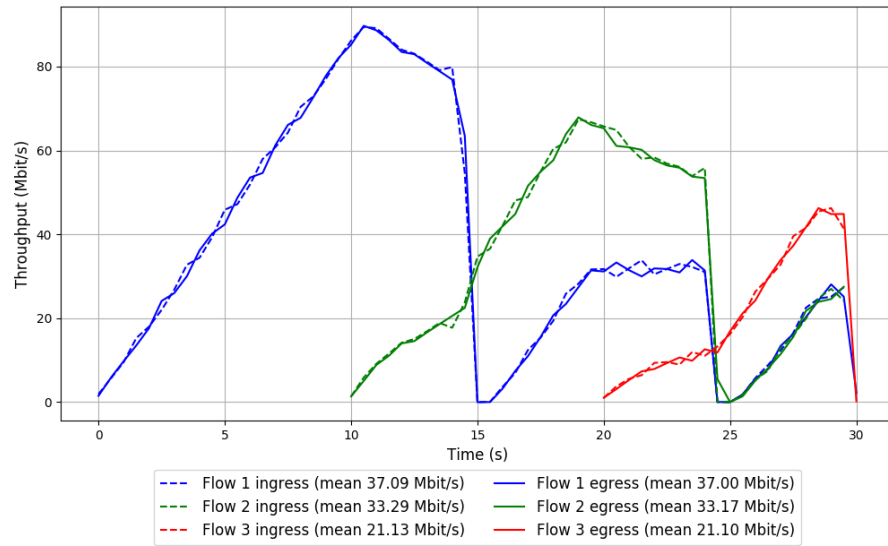


Run 6: Statistics of LEDBAT

Start at: 2017-11-16 12:18:07
End at: 2017-11-16 12:18:37
Local clock offset: 0.225 ms
Remote clock offset: -2.172 ms

Below is generated by plot.py at 2017-11-16 14:12:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.05 Mbit/s
95th percentile per-packet one-way delay: 61.880 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 57.269 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 33.17 Mbit/s
95th percentile per-packet one-way delay: 64.125 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 62.437 ms
Loss rate: 0.09%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 12:37:28

End at: 2017-11-16 12:37:58

Local clock offset: 0.032 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2017-11-16 14:13:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.83 Mbit/s

95th percentile per-packet one-way delay: 61.534 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 61.495 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 26.36 Mbit/s

95th percentile per-packet one-way delay: 62.799 ms

Loss rate: 0.11%

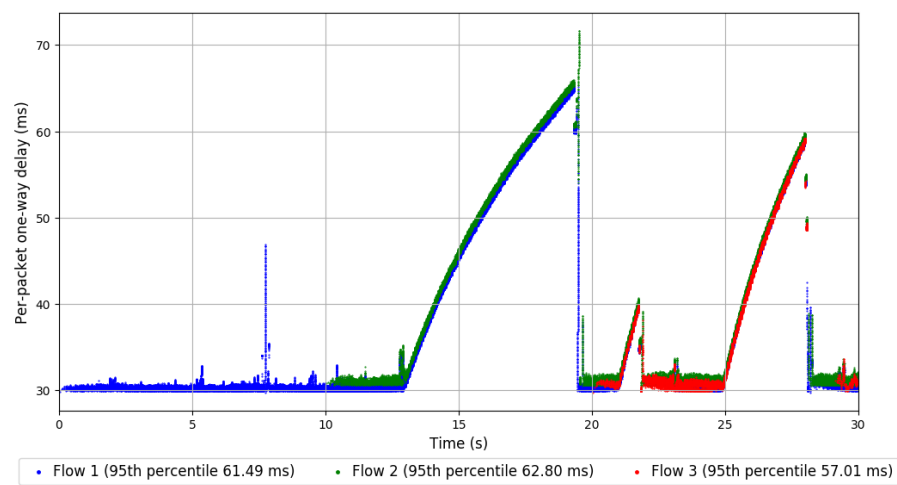
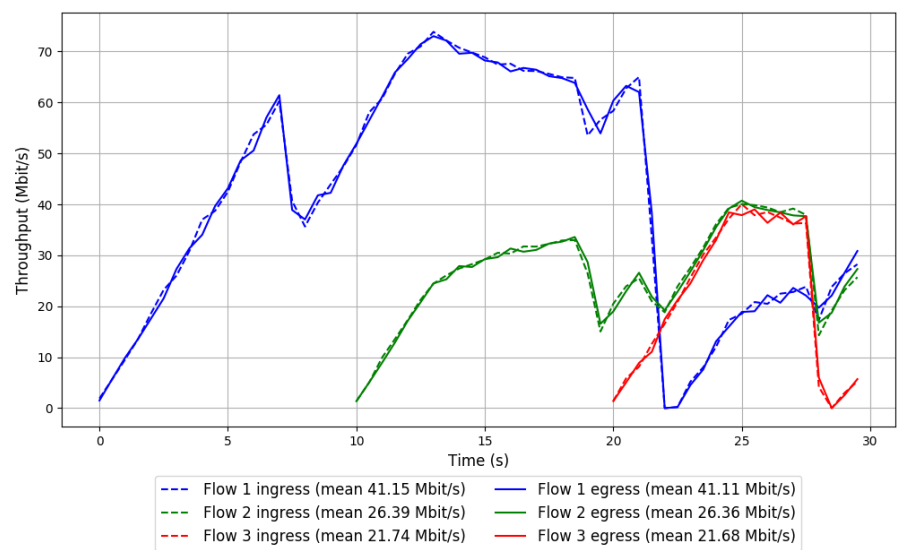
-- Flow 3:

Average throughput: 21.68 Mbit/s

95th percentile per-packet one-way delay: 57.014 ms

Loss rate: 0.23%

Run 7: Report of LEDBAT — Data Link

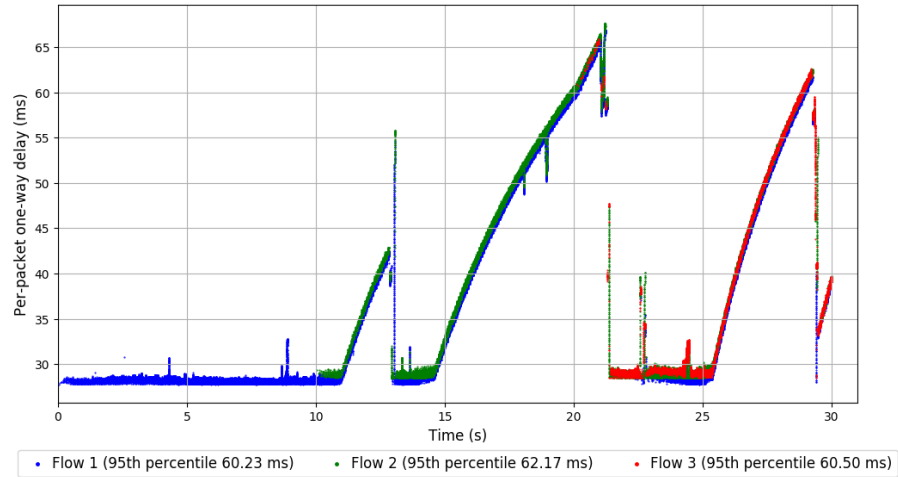
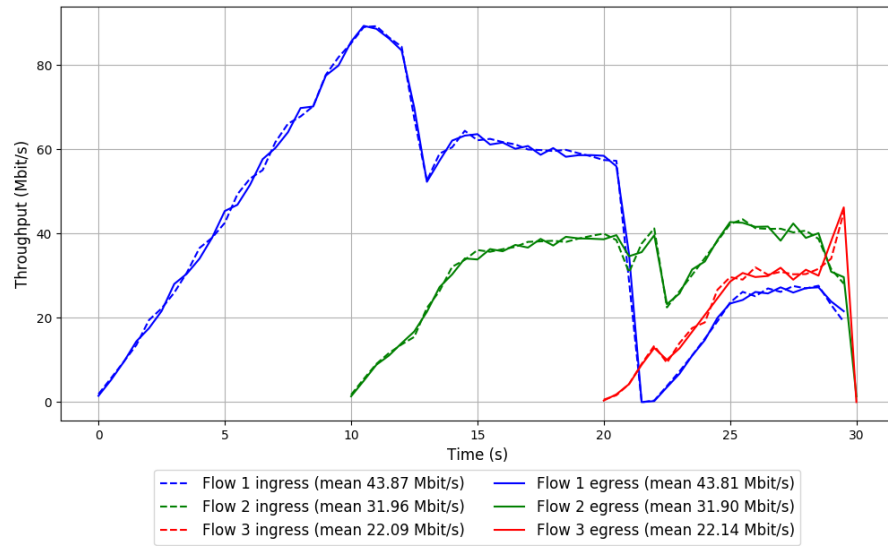


Run 8: Statistics of LEDBAT

Start at: 2017-11-16 12:56:54
End at: 2017-11-16 12:57:24
Local clock offset: 0.068 ms
Remote clock offset: -1.935 ms

Below is generated by plot.py at 2017-11-16 14:13:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.32 Mbit/s
95th percentile per-packet one-way delay: 60.986 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 60.228 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 62.173 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 60.499 ms
Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: 2017-11-16 13:16:46

Local clock offset: 0.098 ms

Remote clock offset: 0.436 ms

Below is generated by plot.py at 2017-11-16 14:13:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 65.650 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 64.695 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 66.410 ms

Loss rate: 0.03%

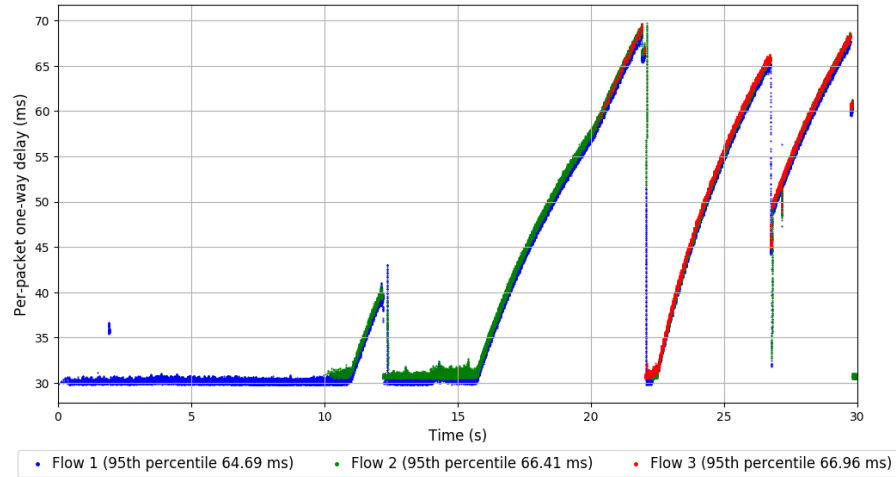
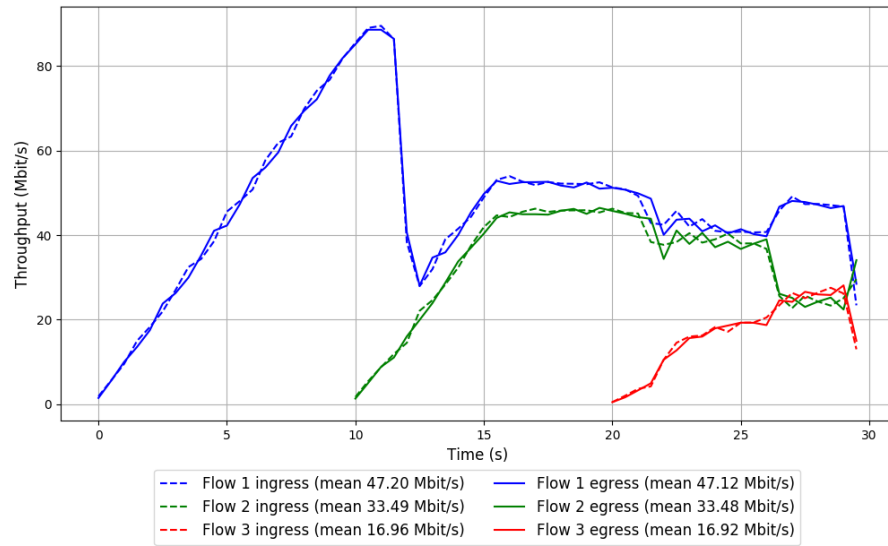
-- Flow 3:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 66.957 ms

Loss rate: 0.23%

Run 9: Report of LEDBAT — Data Link

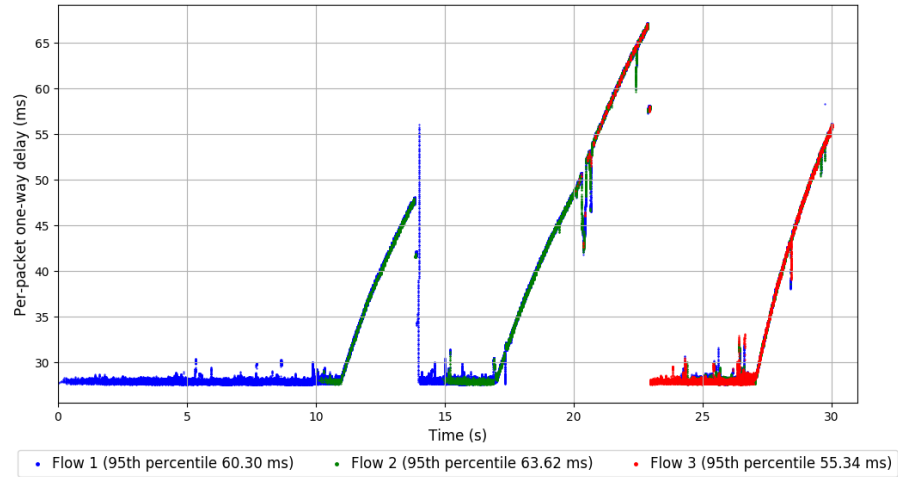
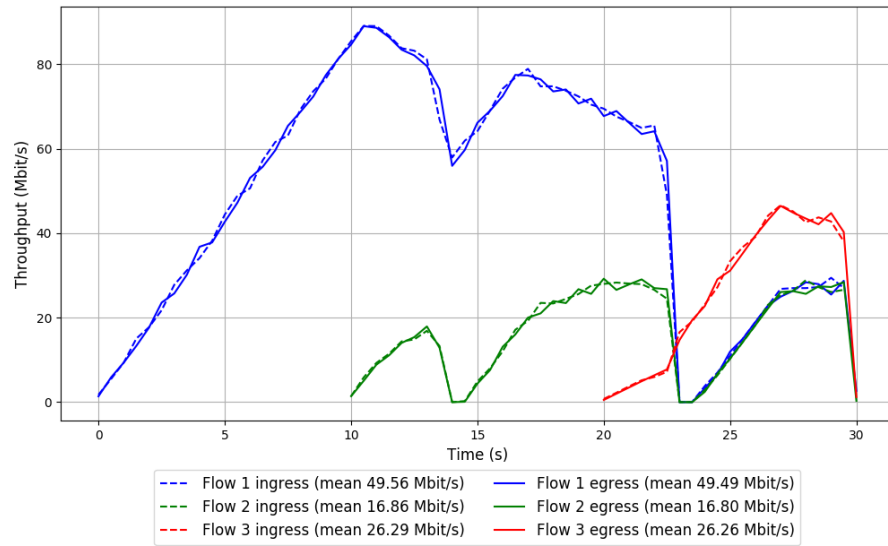


Run 10: Statistics of LEDBAT

Start at: 2017-11-16 13:35:47
End at: 2017-11-16 13:36:17
Local clock offset: 0.181 ms
Remote clock offset: -1.916 ms

Below is generated by plot.py at 2017-11-16 14:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.38 Mbit/s
95th percentile per-packet one-way delay: 61.022 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 60.304 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 16.80 Mbit/s
95th percentile per-packet one-way delay: 63.618 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 55.335 ms
Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-11-16 10:36:31

End at: 2017-11-16 10:37:01

Local clock offset: 0.885 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2017-11-16 14:13:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 65.323 ms

Loss rate: 7.55%

-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 65.087 ms

Loss rate: 7.12%

-- Flow 2:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 66.573 ms

Loss rate: 10.64%

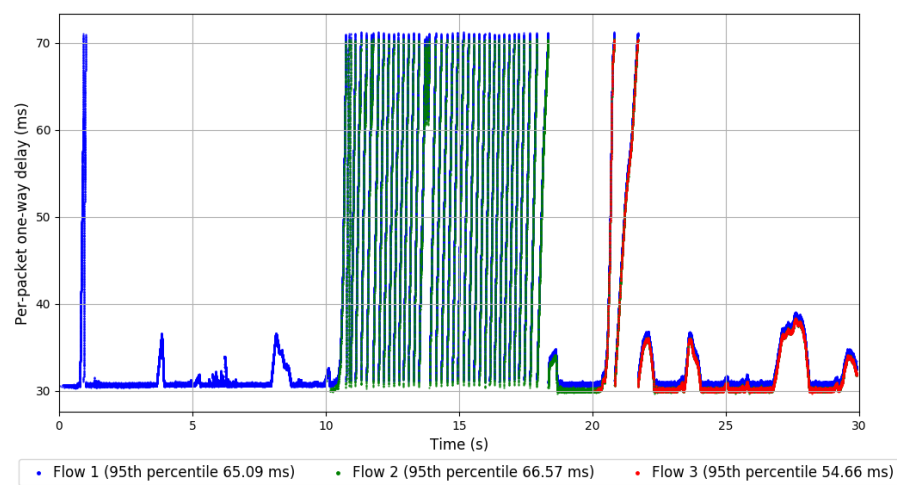
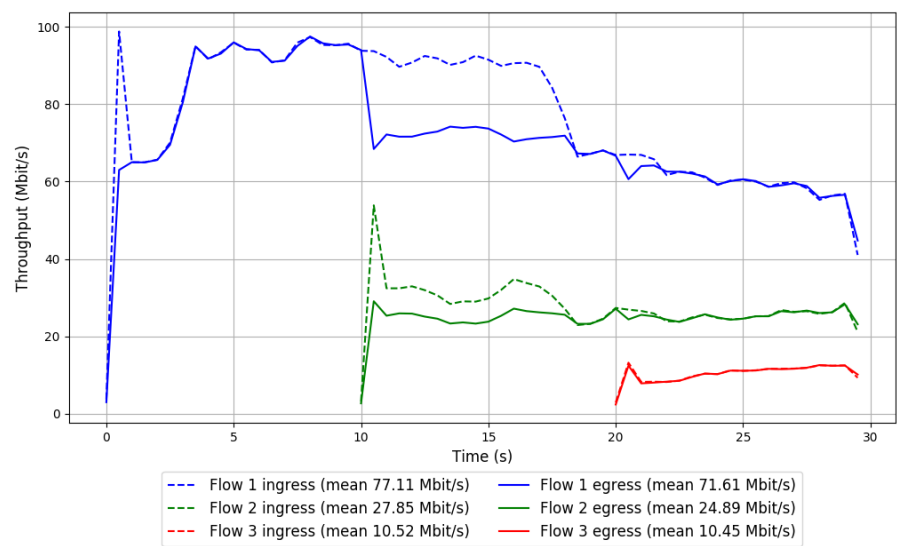
-- Flow 3:

Average throughput: 10.45 Mbit/s

95th percentile per-packet one-way delay: 54.655 ms

Loss rate: 0.64%

Run 1: Report of PCC — Data Link

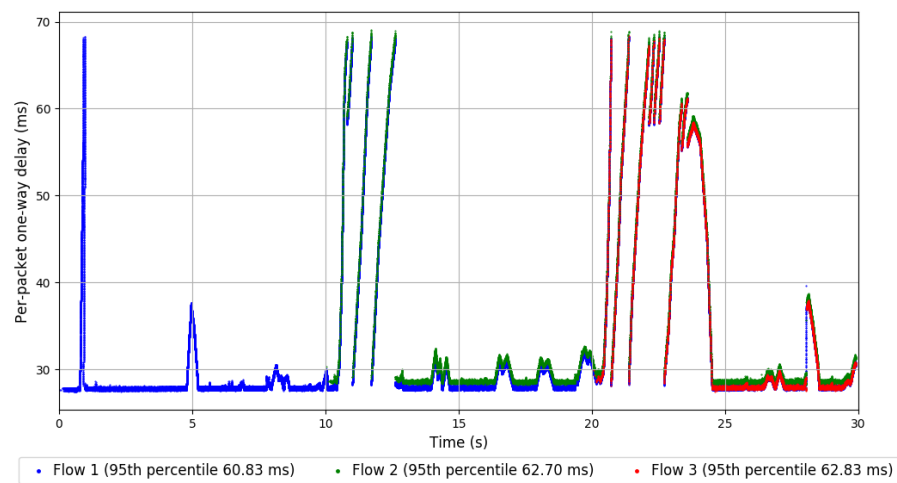
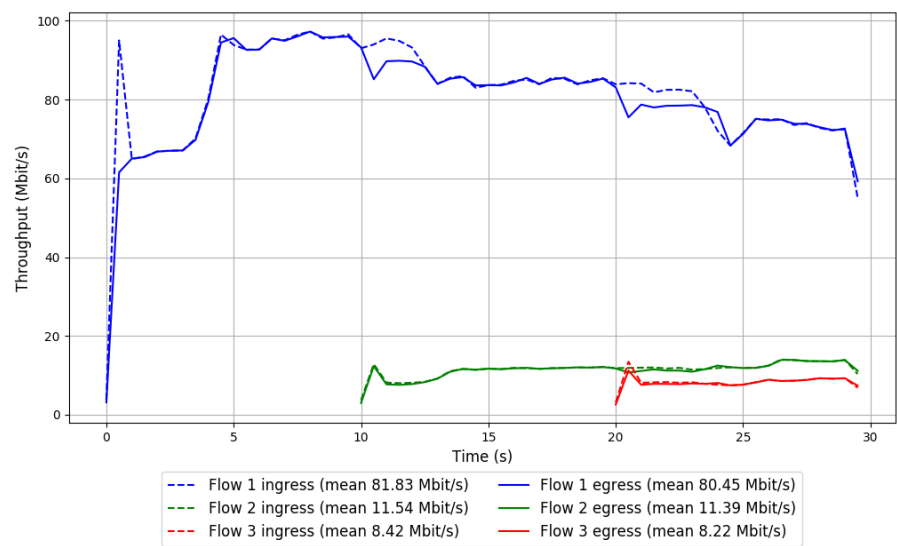


Run 2: Statistics of PCC

Start at: 2017-11-16 10:55:37
End at: 2017-11-16 10:56:07
Local clock offset: 0.716 ms
Remote clock offset: -2.192 ms

Below is generated by plot.py at 2017-11-16 14:13:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 61.106 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 80.45 Mbit/s
95th percentile per-packet one-way delay: 60.829 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 62.695 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 62.828 ms
Loss rate: 2.38%

Run 2: Report of PCC — Data Link

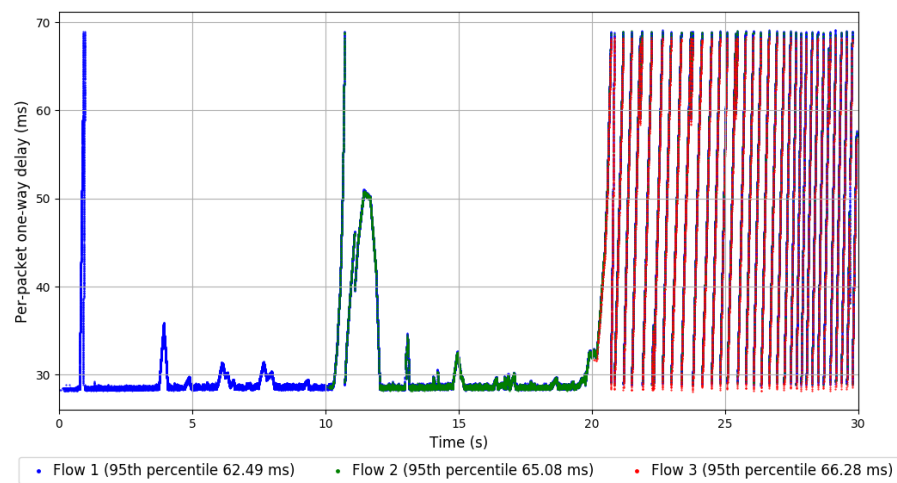
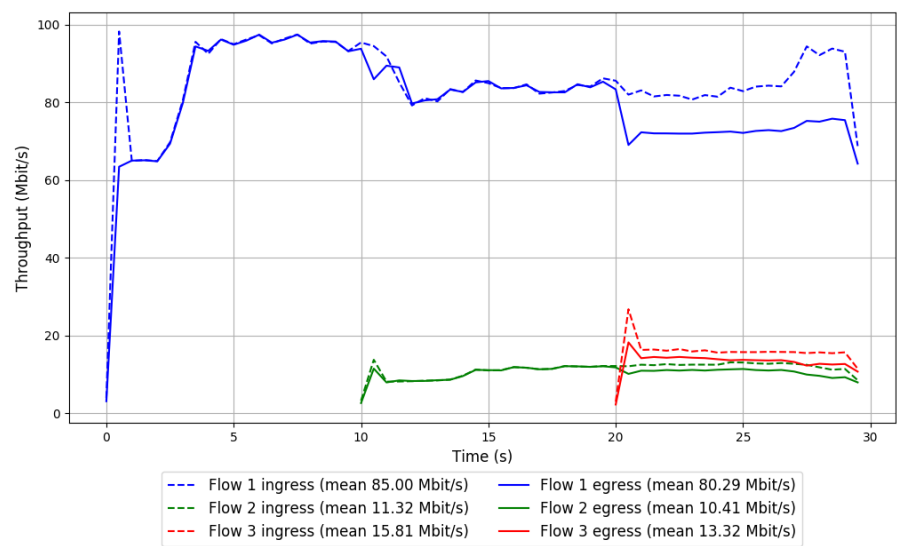


Run 3: Statistics of PCC

Start at: 2017-11-16 11:14:53
End at: 2017-11-16 11:15:23
Local clock offset: 0.583 ms
Remote clock offset: -2.509 ms

Below is generated by plot.py at 2017-11-16 14:14:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 63.330 ms
Loss rate: 6.18%
-- Flow 1:
Average throughput: 80.29 Mbit/s
95th percentile per-packet one-way delay: 62.492 ms
Loss rate: 5.45%
-- Flow 2:
Average throughput: 10.41 Mbit/s
95th percentile per-packet one-way delay: 65.083 ms
Loss rate: 7.95%
-- Flow 3:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 66.279 ms
Loss rate: 15.54%

Run 3: Report of PCC — Data Link

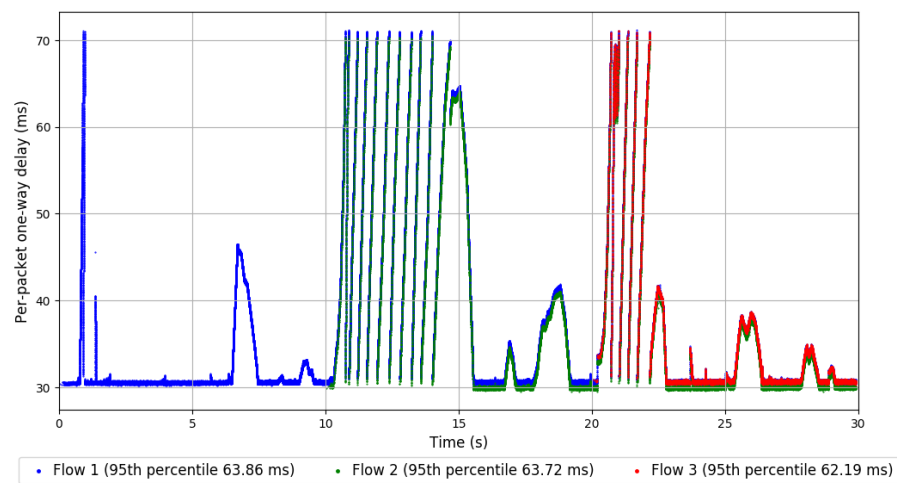
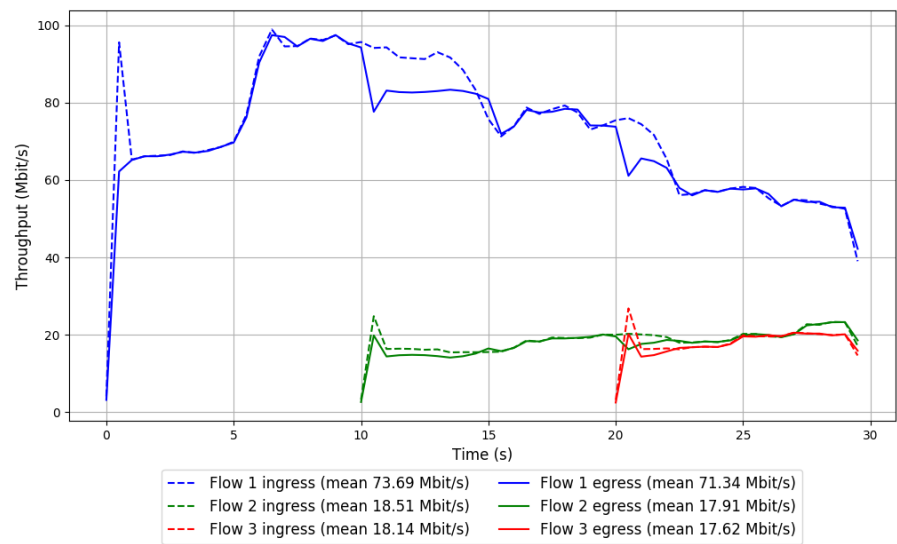


Run 4: Statistics of PCC

Start at: 2017-11-16 11:34:01
End at: 2017-11-16 11:34:31
Local clock offset: 0.387 ms
Remote clock offset: -0.577 ms

Below is generated by plot.py at 2017-11-16 14:14:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 71.34 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 63.715 ms
Loss rate: 3.25%
-- Flow 3:
Average throughput: 17.62 Mbit/s
95th percentile per-packet one-way delay: 62.191 ms
Loss rate: 2.88%

Run 4: Report of PCC — Data Link

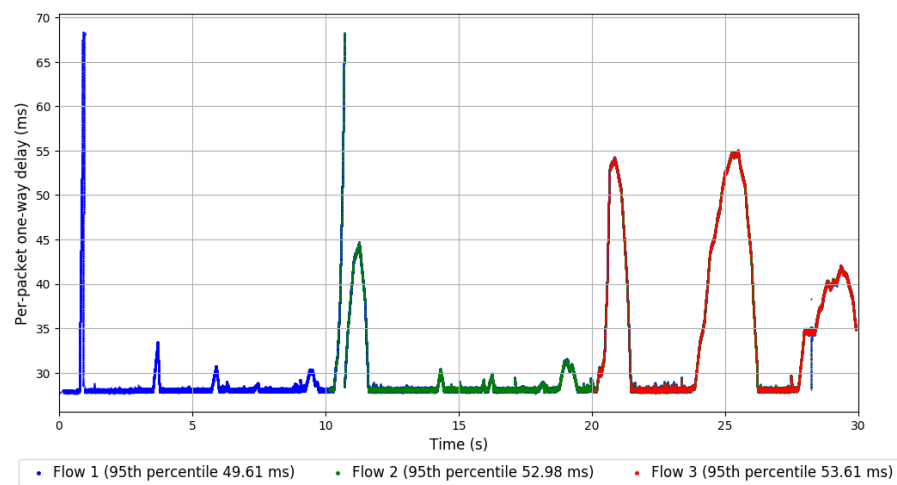
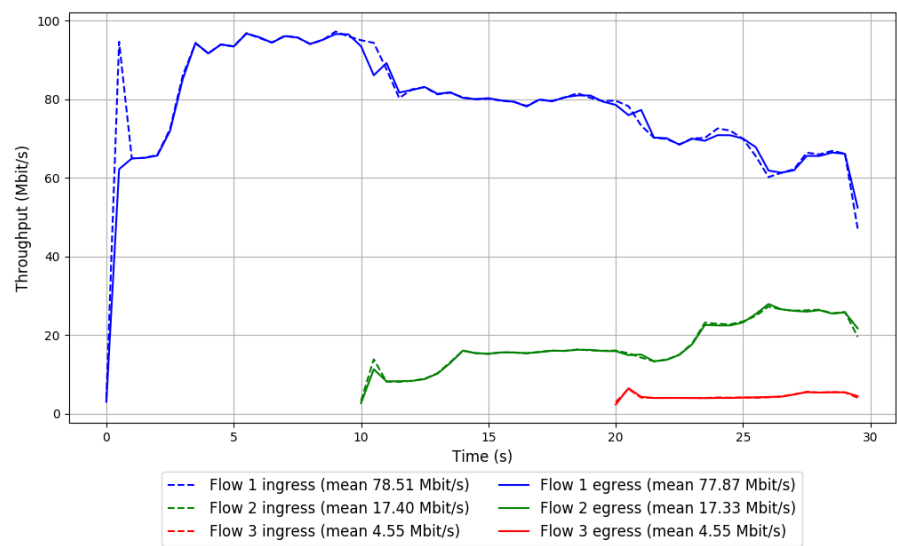


Run 5: Statistics of PCC

Start at: 2017-11-16 11:53:10
End at: 2017-11-16 11:53:40
Local clock offset: 0.199 ms
Remote clock offset: -2.351 ms

Below is generated by plot.py at 2017-11-16 14:14:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 51.050 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 49.613 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 52.978 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.00%

Run 5: Report of PCC — Data Link

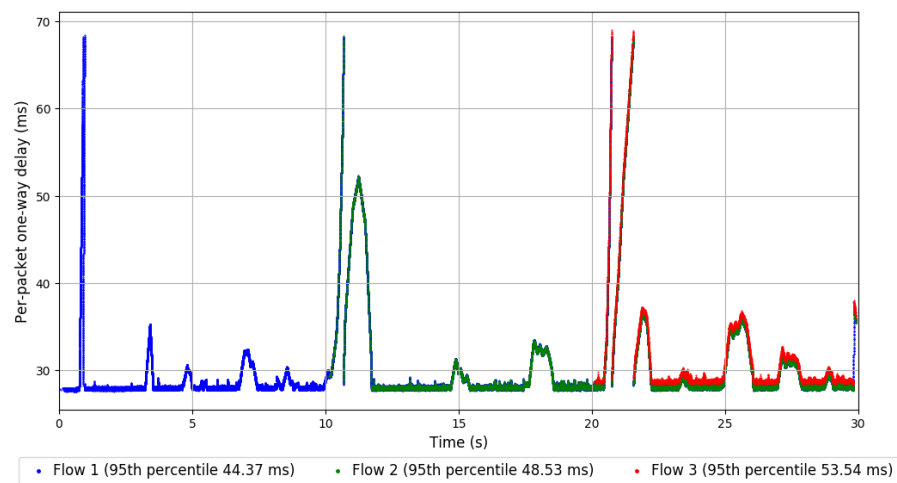
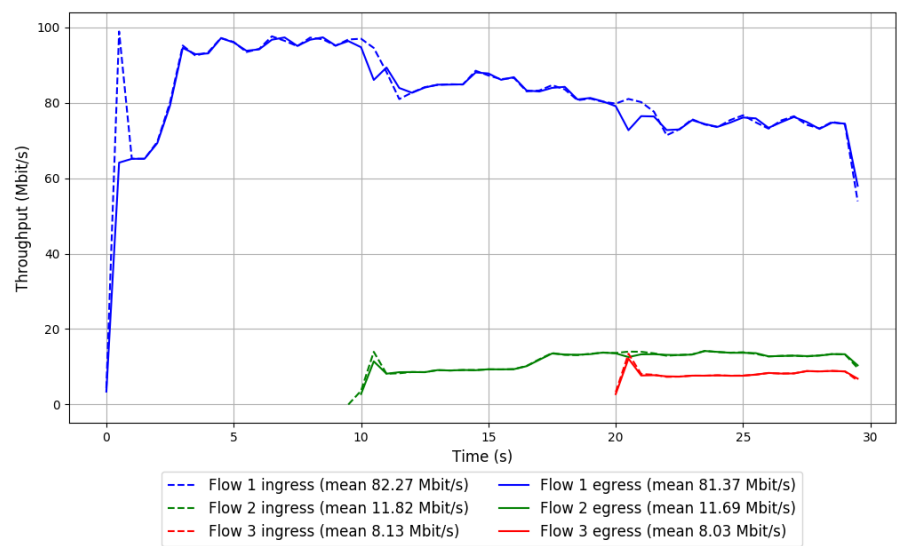


Run 6: Statistics of PCC

Start at: 2017-11-16 12:12:31
End at: 2017-11-16 12:13:01
Local clock offset: 0.15 ms
Remote clock offset: -2.352 ms

Below is generated by plot.py at 2017-11-16 14:14:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 45.182 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 44.367 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 48.528 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 53.541 ms
Loss rate: 1.11%

Run 6: Report of PCC — Data Link

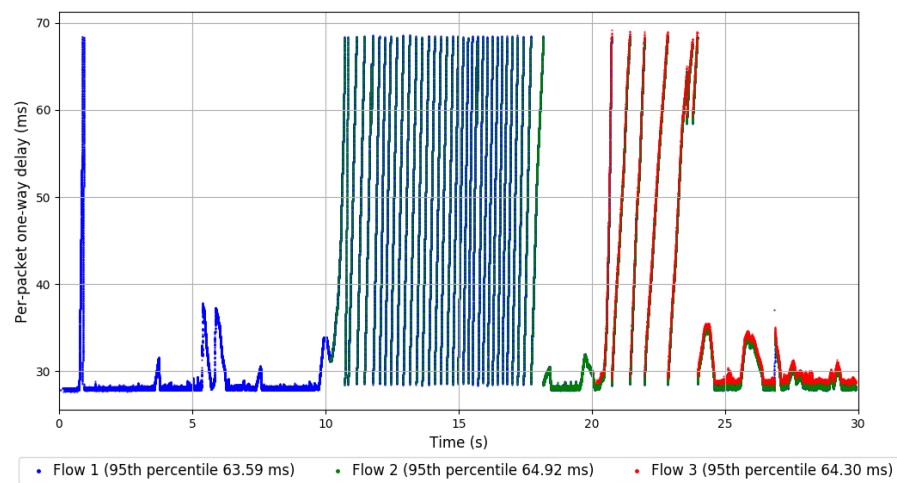
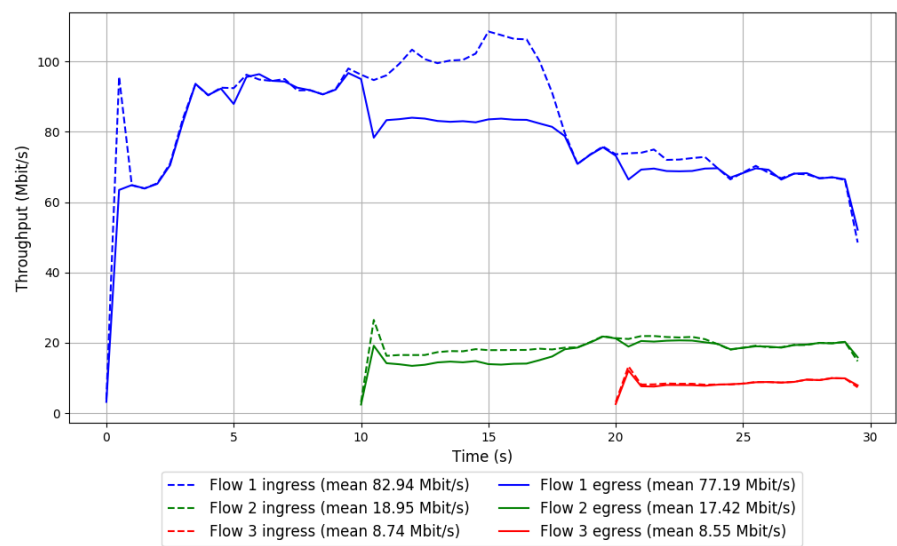


Run 7: Statistics of PCC

Start at: 2017-11-16 12:31:59
End at: 2017-11-16 12:32:29
Local clock offset: 0.046 ms
Remote clock offset: -1.957 ms

Below is generated by plot.py at 2017-11-16 14:14:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.58 Mbit/s
95th percentile per-packet one-way delay: 63.849 ms
Loss rate: 6.94%
-- Flow 1:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 63.590 ms
Loss rate: 6.93%
-- Flow 2:
Average throughput: 17.42 Mbit/s
95th percentile per-packet one-way delay: 64.921 ms
Loss rate: 8.07%
-- Flow 3:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 2.26%

Run 7: Report of PCC — Data Link

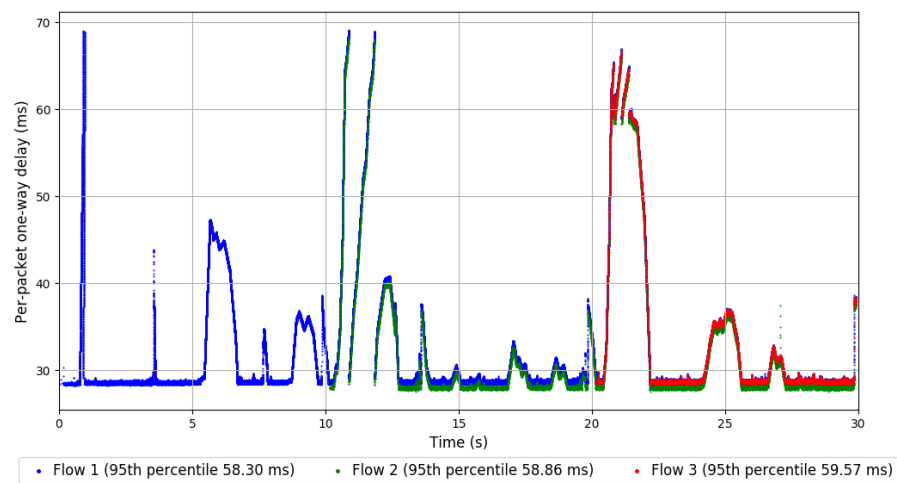
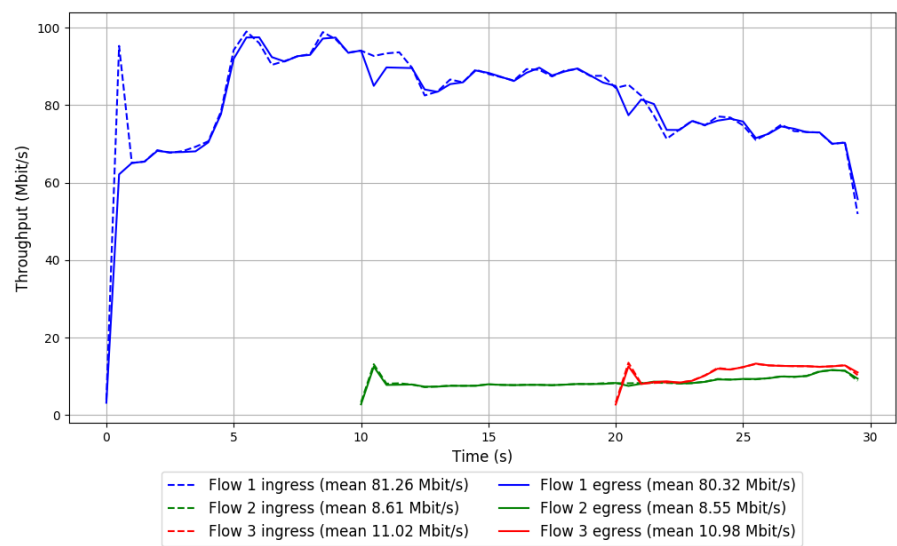


Run 8: Statistics of PCC

Start at: 2017-11-16 12:51:27
End at: 2017-11-16 12:51:57
Local clock offset: 0.143 ms
Remote clock offset: -1.996 ms

Below is generated by plot.py at 2017-11-16 14:14:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 58.446 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 58.296 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 58.858 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 10.98 Mbit/s
95th percentile per-packet one-way delay: 59.566 ms
Loss rate: 0.33%

Run 8: Report of PCC — Data Link

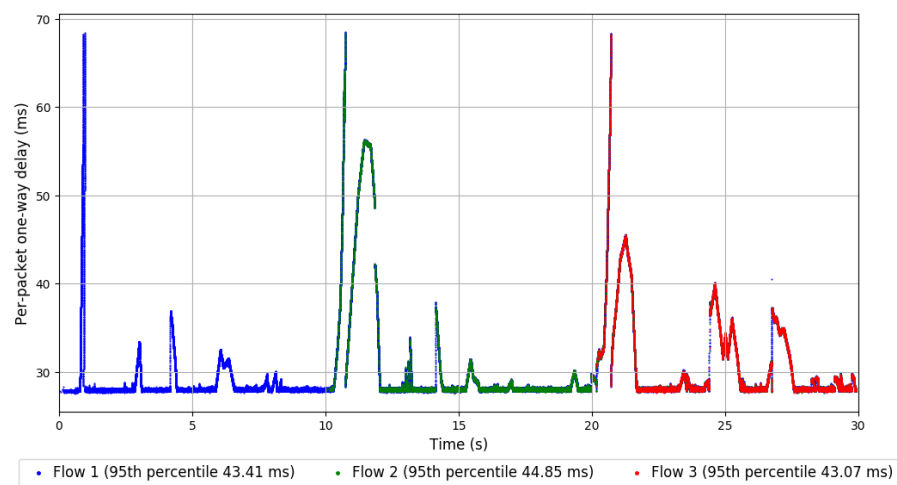
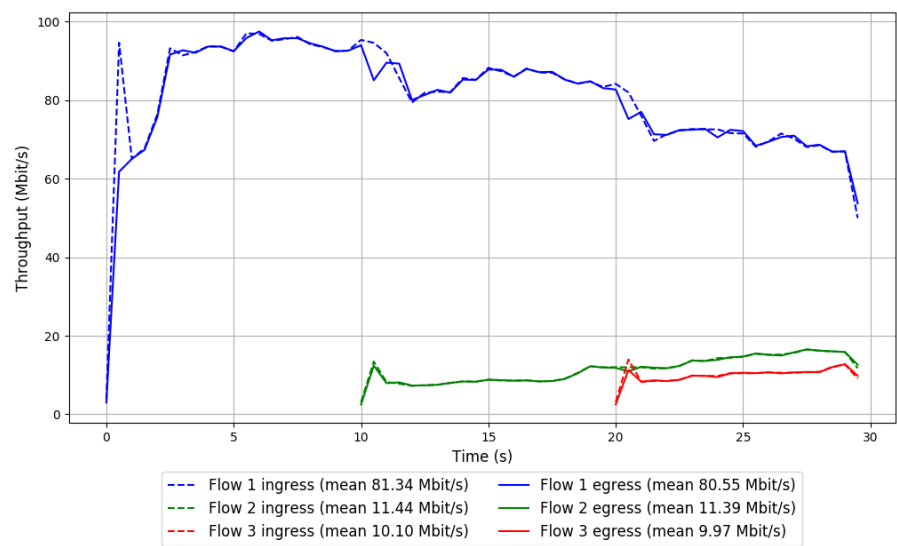


Run 9: Statistics of PCC

Start at: 2017-11-16 13:10:43
End at: 2017-11-16 13:11:13
Local clock offset: 0.169 ms
Remote clock offset: -1.634 ms

Below is generated by plot.py at 2017-11-16 14:15:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 43.538 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 80.55 Mbit/s
95th percentile per-packet one-way delay: 43.411 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 44.855 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 43.070 ms
Loss rate: 1.35%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-16 13:30:12

End at: 2017-11-16 13:30:42

Local clock offset: 0.181 ms

Remote clock offset: 0.404 ms

Below is generated by plot.py at 2017-11-16 14:15:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.76 Mbit/s

95th percentile per-packet one-way delay: 50.682 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 50.216 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 10.47 Mbit/s

95th percentile per-packet one-way delay: 52.211 ms

Loss rate: 0.44%

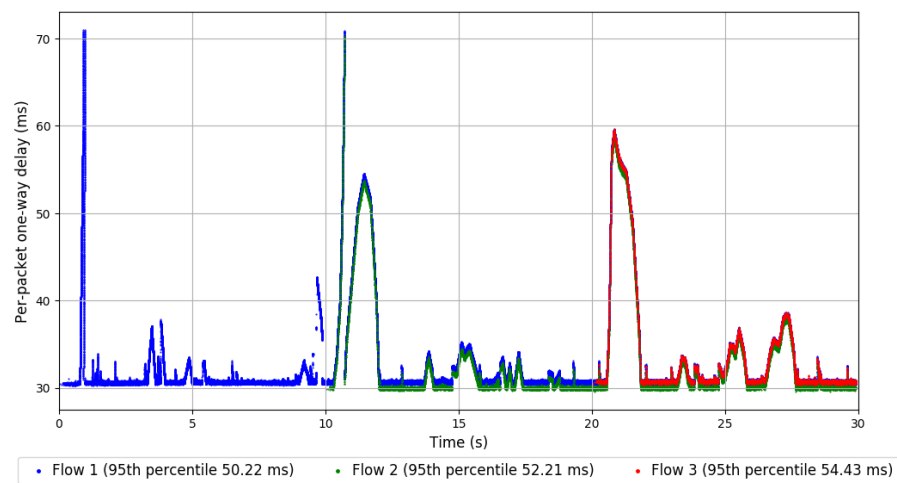
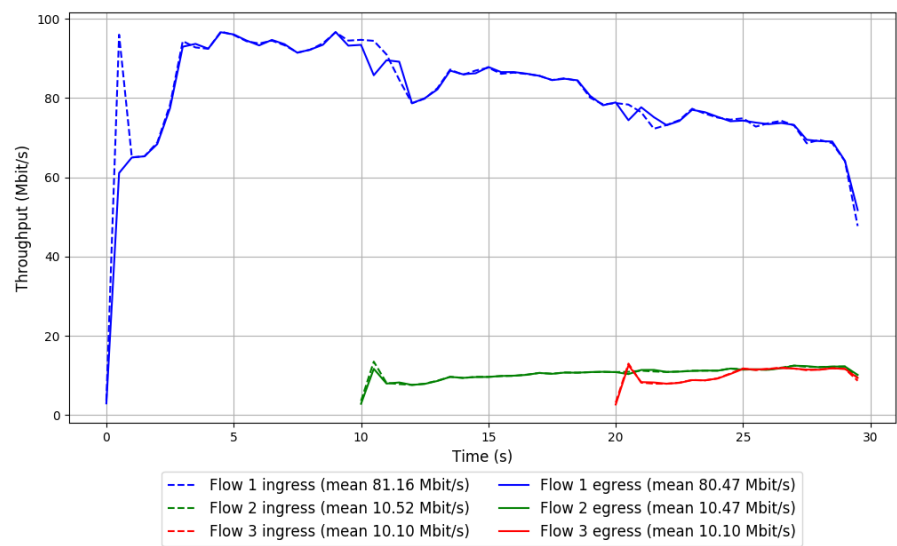
-- Flow 3:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 54.433 ms

Loss rate: 0.01%

Run 10: Report of PCC — Data Link

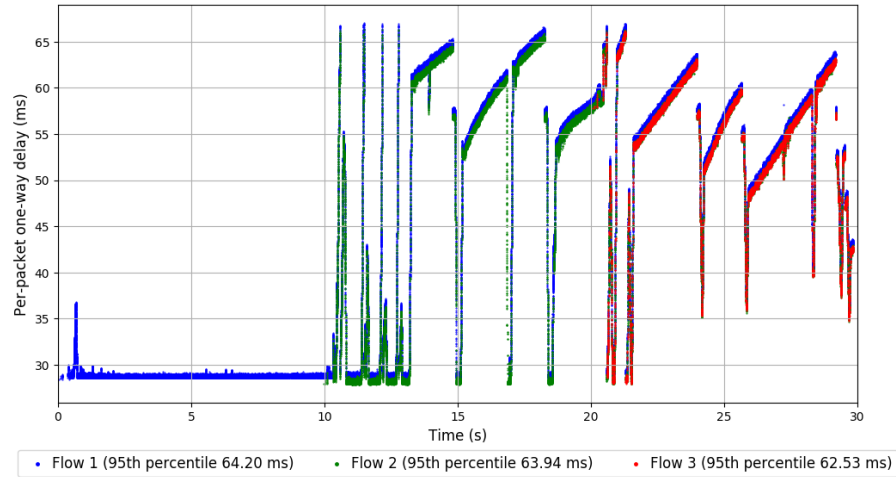
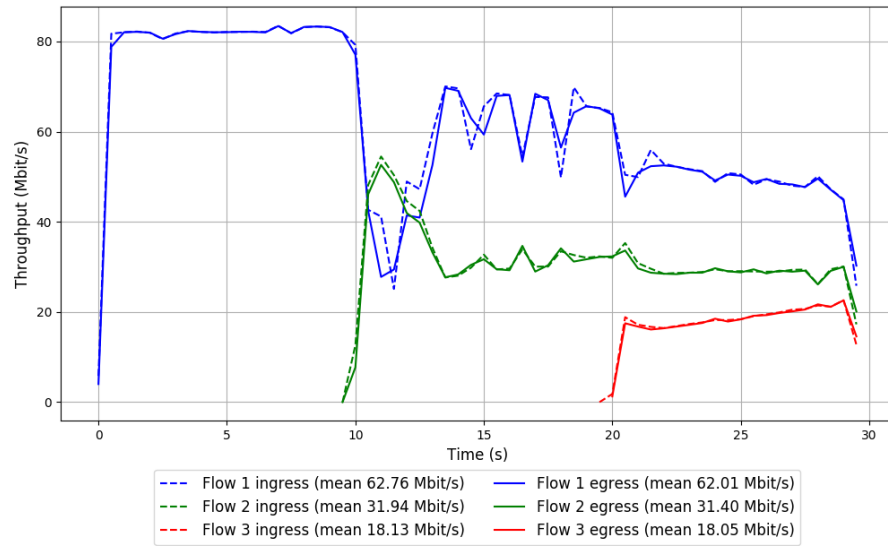


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 10:33:51
End at: 2017-11-16 10:34:22
Local clock offset: 0.896 ms
Remote clock offset: -1.272 ms

Below is generated by plot.py at 2017-11-16 14:15:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 64.025 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 62.01 Mbit/s
95th percentile per-packet one-way delay: 64.204 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 63.940 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 18.05 Mbit/s
95th percentile per-packet one-way delay: 62.529 ms
Loss rate: 0.60%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 10:52:59

End at: 2017-11-16 10:53:29

Local clock offset: 0.766 ms

Remote clock offset: 0.419 ms

Below is generated by plot.py at 2017-11-16 14:15:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 65.249 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 64.810 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 40.02 Mbit/s

95th percentile per-packet one-way delay: 66.255 ms

Loss rate: 2.20%

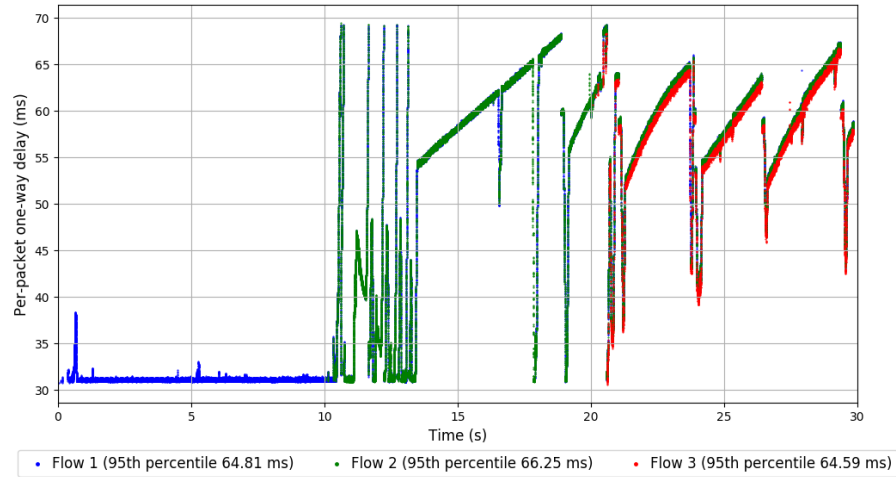
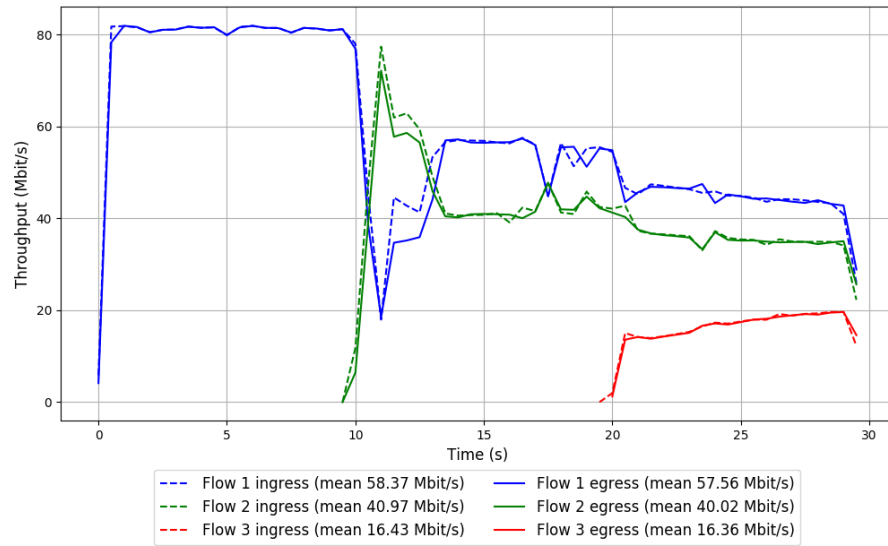
-- Flow 3:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 64.586 ms

Loss rate: 0.44%

Run 2: Report of QUIC Cubic — Data Link

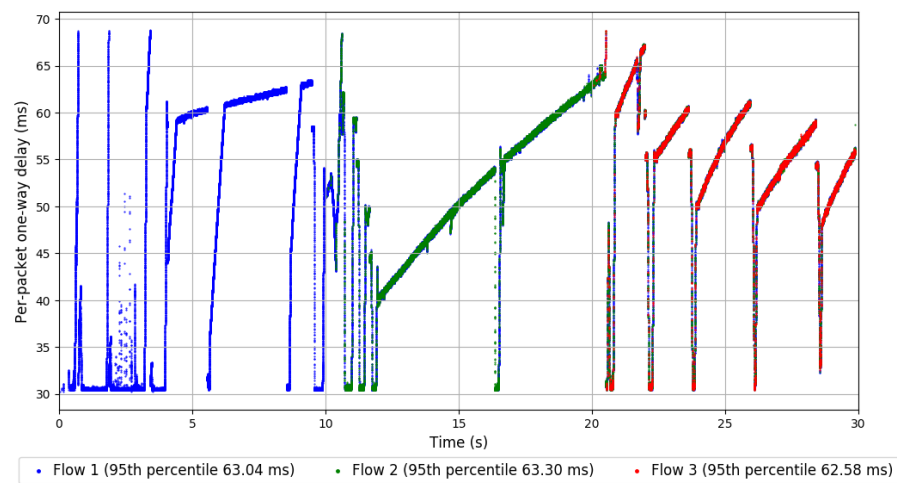
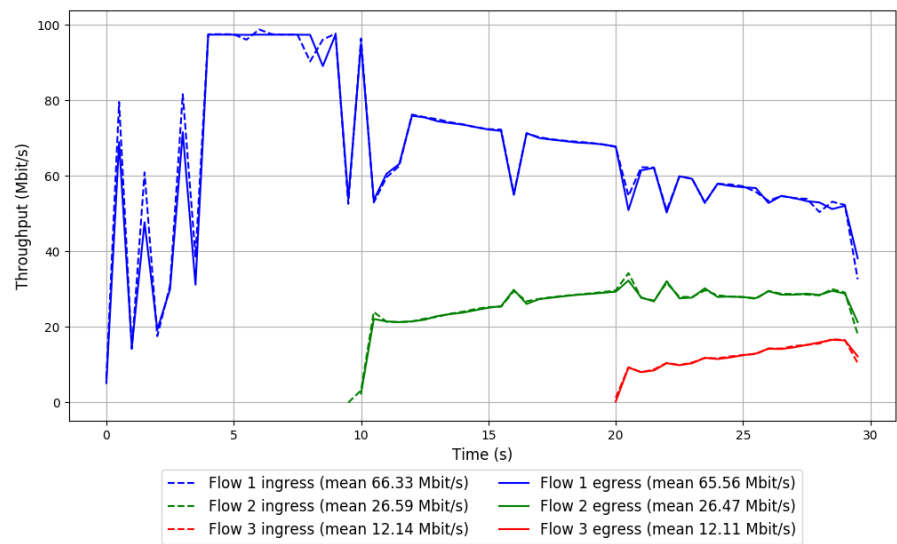


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 11:12:13
End at: 2017-11-16 11:12:43
Local clock offset: 0.602 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2017-11-16 14:15:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.13 Mbit/s
95th percentile per-packet one-way delay: 63.078 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 65.56 Mbit/s
95th percentile per-packet one-way delay: 63.044 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 63.300 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 62.580 ms
Loss rate: 0.30%

Run 3: Report of QUIC Cubic — Data Link

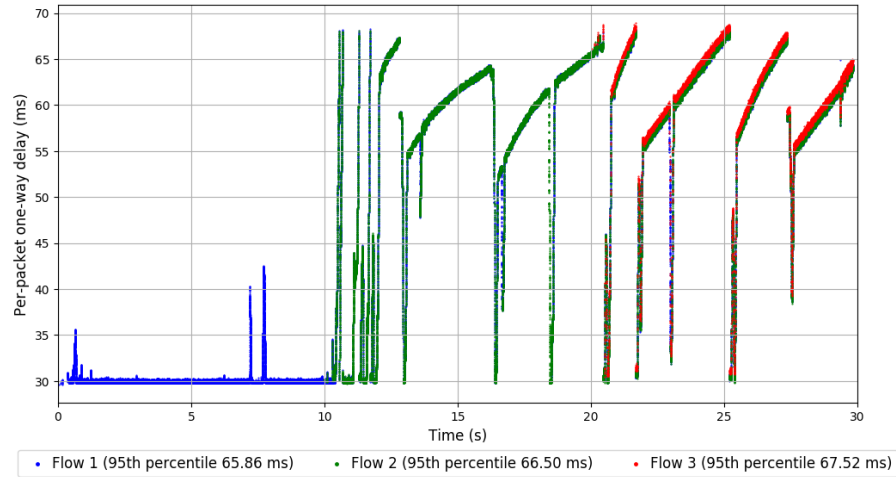
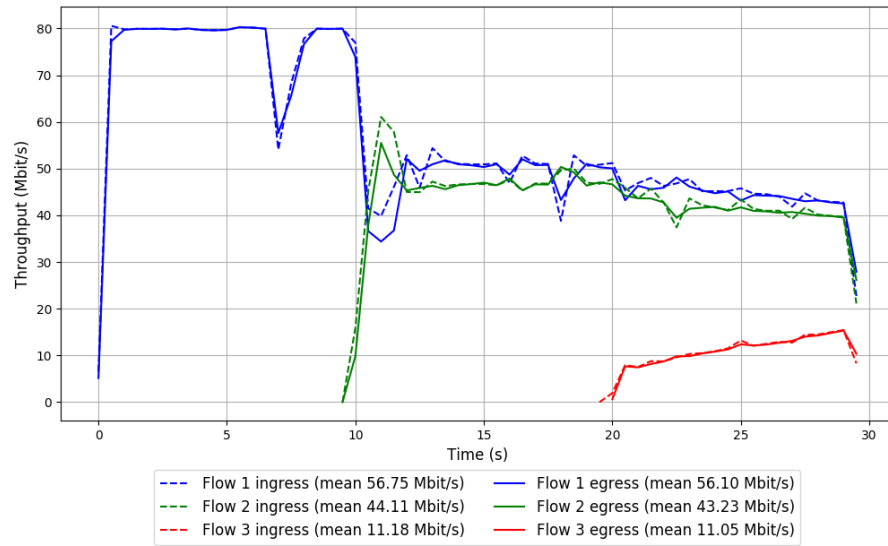


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 11:31:22
End at: 2017-11-16 11:31:52
Local clock offset: 0.336 ms
Remote clock offset: -0.581 ms

Below is generated by plot.py at 2017-11-16 14:16:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.55 Mbit/s
95th percentile per-packet one-way delay: 66.274 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 65.863 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 66.501 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 67.519 ms
Loss rate: 1.14%

Run 4: Report of QUIC Cubic — Data Link

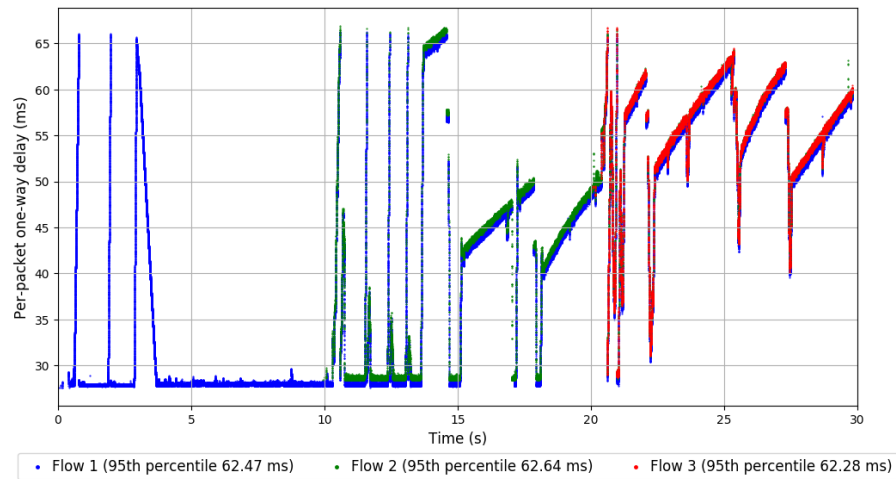
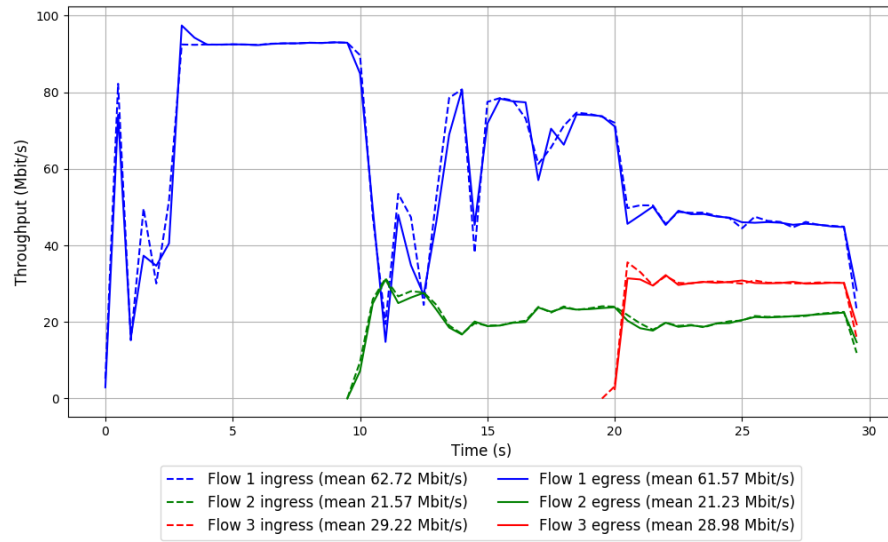


Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 11:50:31
End at: 2017-11-16 11:51:01
Local clock offset: 0.27 ms
Remote clock offset: -2.377 ms

Below is generated by plot.py at 2017-11-16 14:16:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 62.421 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 61.57 Mbit/s
95th percentile per-packet one-way delay: 62.467 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 62.638 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 62.279 ms
Loss rate: 0.72%

Run 5: Report of QUIC Cubic — Data Link

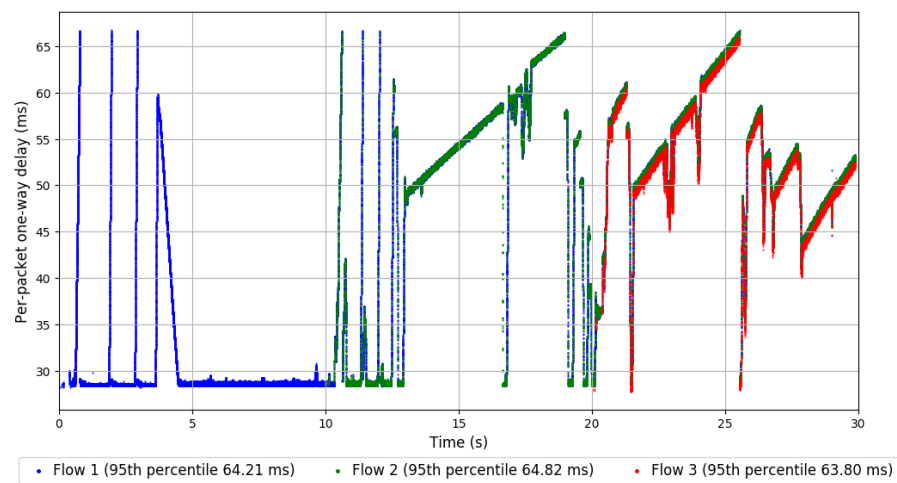
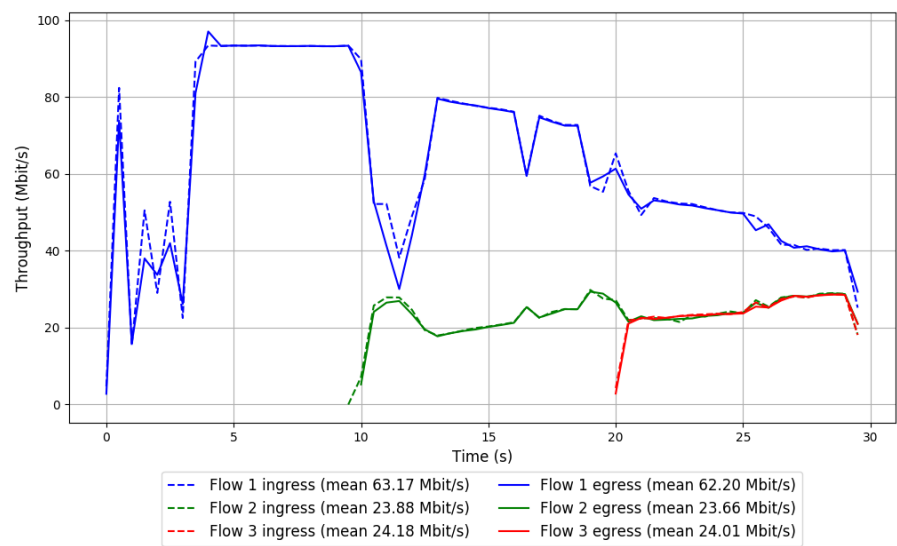


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 12:09:48
End at: 2017-11-16 12:10:18
Local clock offset: 0.186 ms
Remote clock offset: -2.387 ms

Below is generated by plot.py at 2017-11-16 14:16:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 64.302 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 64.214 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 23.66 Mbit/s
95th percentile per-packet one-way delay: 64.824 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 63.795 ms
Loss rate: 0.44%

Run 6: Report of QUIC Cubic — Data Link

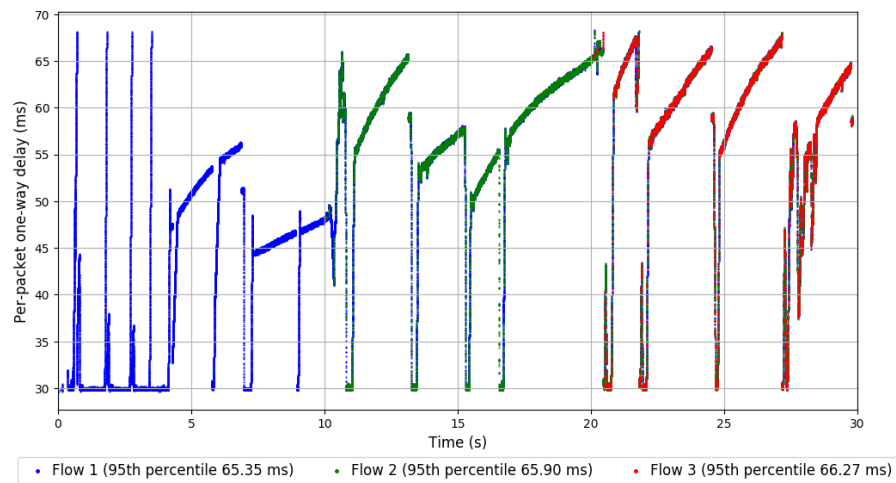
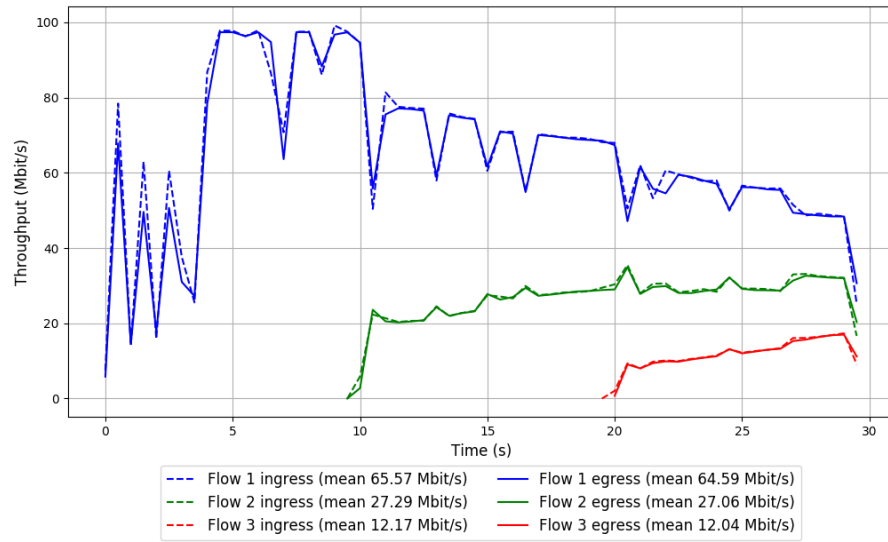


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 12:29:18
End at: 2017-11-16 12:29:48
Local clock offset: 0.053 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2017-11-16 14:16:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.55 Mbit/s
95th percentile per-packet one-way delay: 65.591 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 64.59 Mbit/s
95th percentile per-packet one-way delay: 65.351 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 65.904 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 66.267 ms
Loss rate: 1.14%

Run 7: Report of QUIC Cubic — Data Link

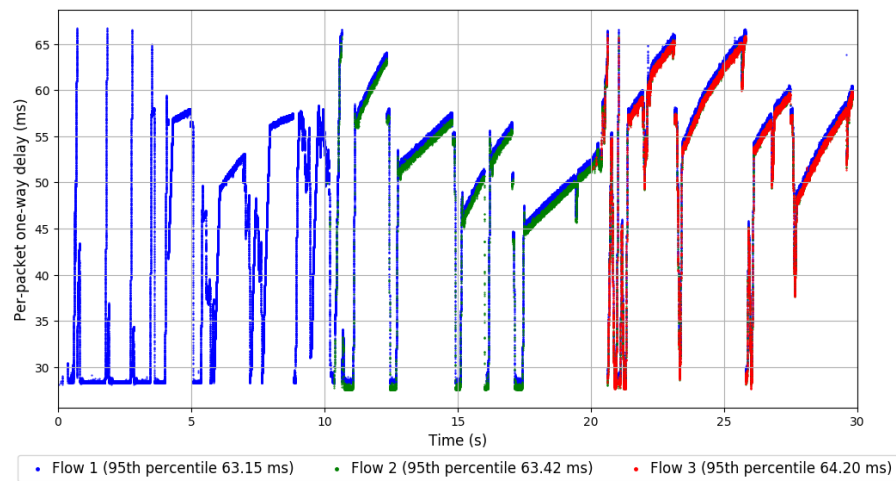
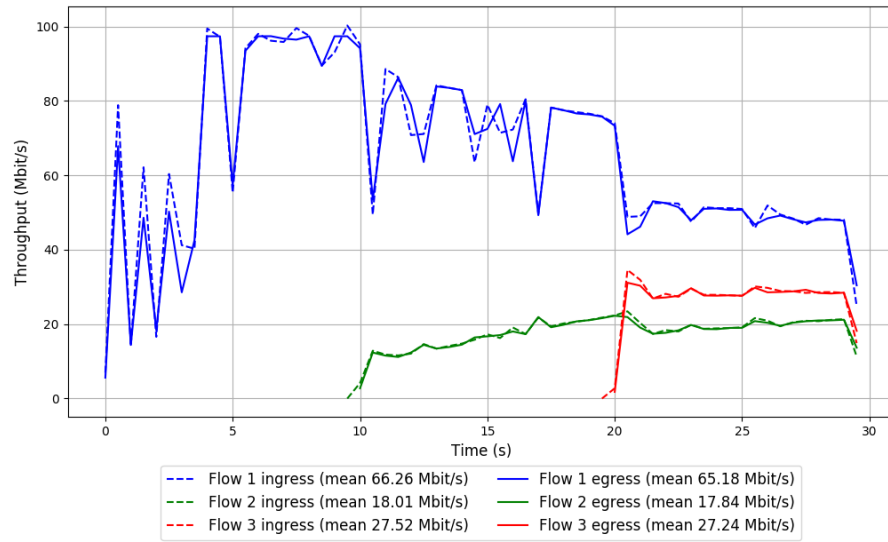


Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 12:48:45
End at: 2017-11-16 12:49:15
Local clock offset: 0.113 ms
Remote clock offset: -2.097 ms

Below is generated by plot.py at 2017-11-16 14:16:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 63.414 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 65.18 Mbit/s
95th percentile per-packet one-way delay: 63.146 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 63.418 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 64.198 ms
Loss rate: 0.97%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 13:08:03

End at: 2017-11-16 13:08:33

Local clock offset: 0.084 ms

Remote clock offset: 0.783 ms

Below is generated by plot.py at 2017-11-16 14:17:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 64.970 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 63.73 Mbit/s

95th percentile per-packet one-way delay: 64.976 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 65.163 ms

Loss rate: 0.79%

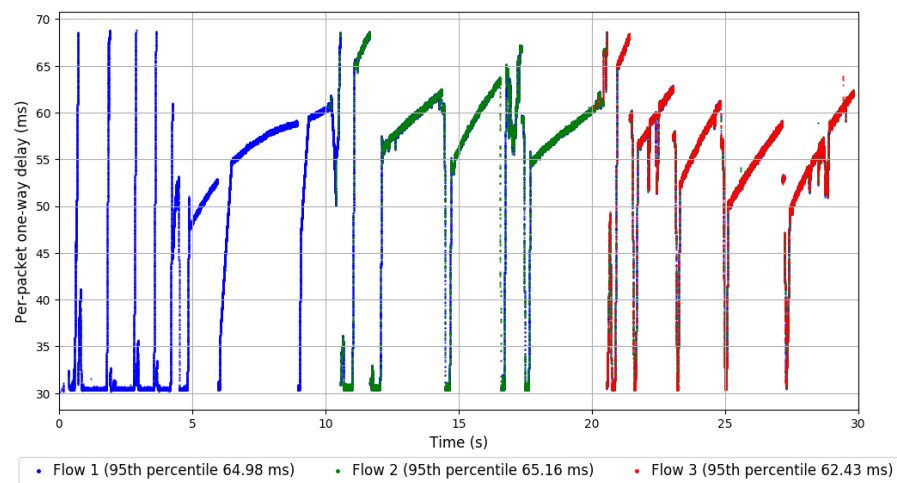
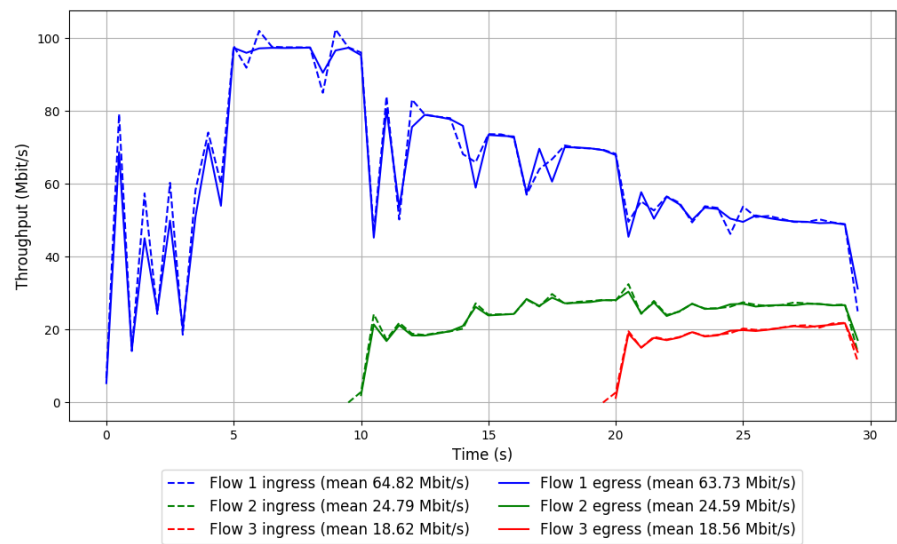
-- Flow 3:

Average throughput: 18.56 Mbit/s

95th percentile per-packet one-way delay: 62.432 ms

Loss rate: 0.34%

Run 9: Report of QUIC Cubic — Data Link

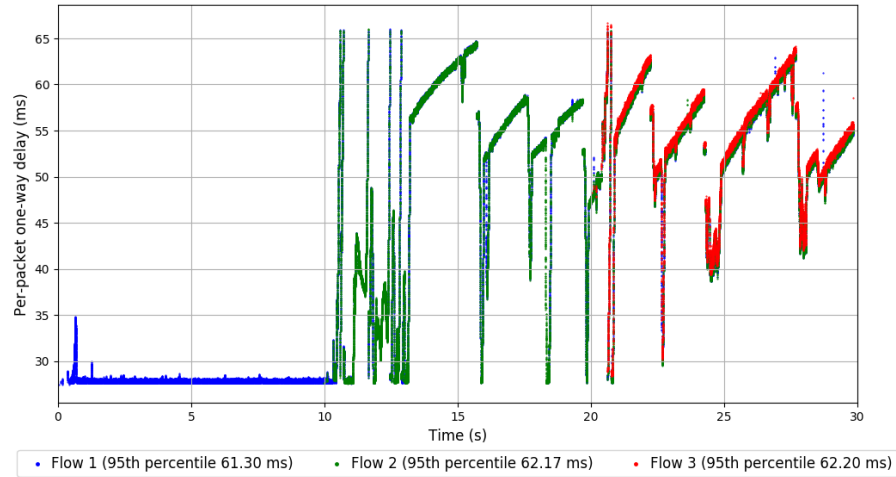
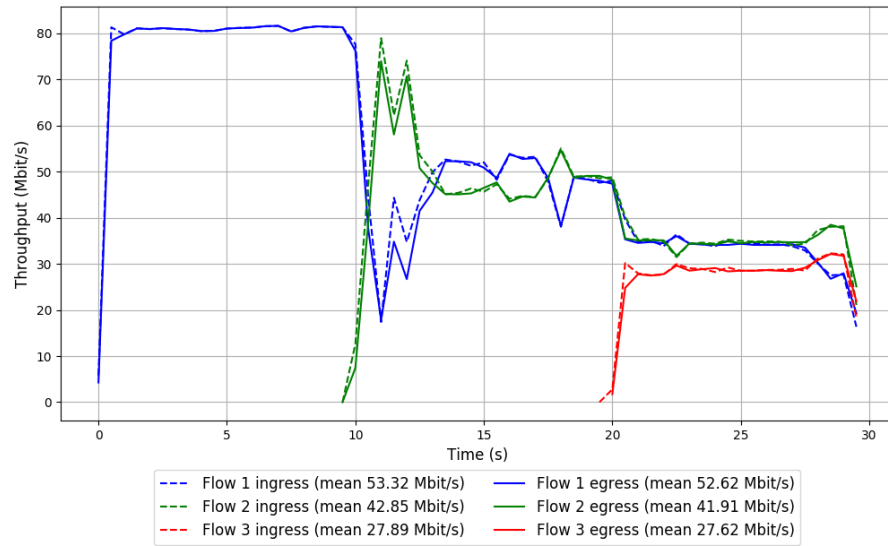


Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 13:27:29
End at: 2017-11-16 13:27:59
Local clock offset: 0.177 ms
Remote clock offset: -1.635 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 61.771 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 61.300 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 41.91 Mbit/s
95th percentile per-packet one-way delay: 62.169 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 62.195 ms
Loss rate: 0.88%

Run 10: Report of QUIC Cubic — Data Link

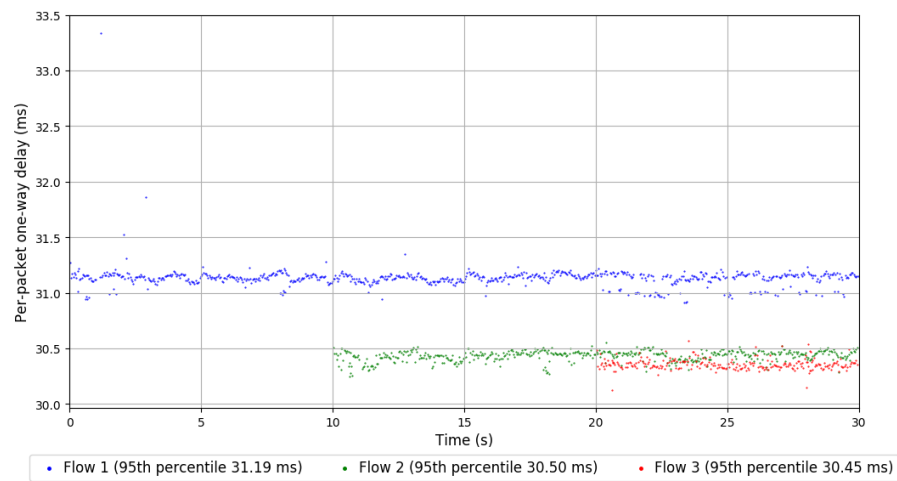
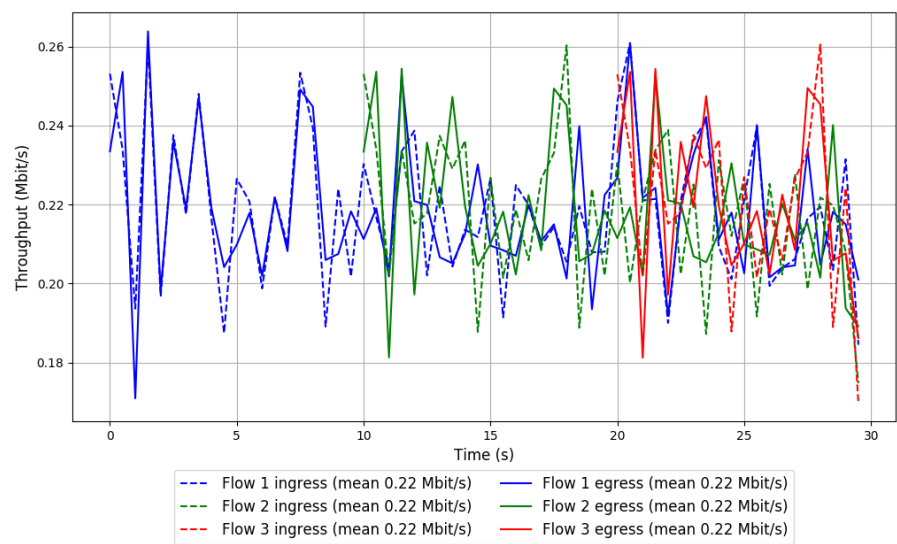


```
Run 1: Statistics of SReAM

Start at: 2017-11-16 10:35:14
End at: 2017-11-16 10:35:44
Local clock offset: 0.894 ms
Remote clock offset: 1.06 ms

# Below is generated by plot.py at 2017-11-16 14:17:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 31.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.499 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.454 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

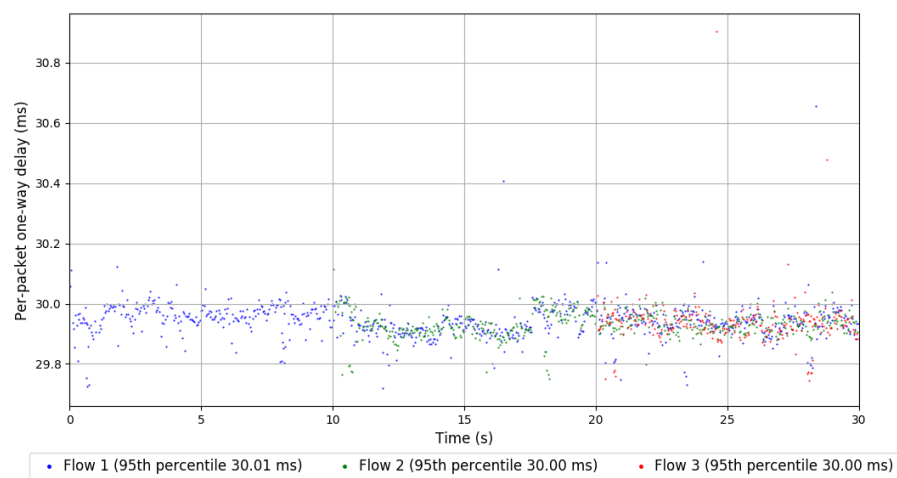
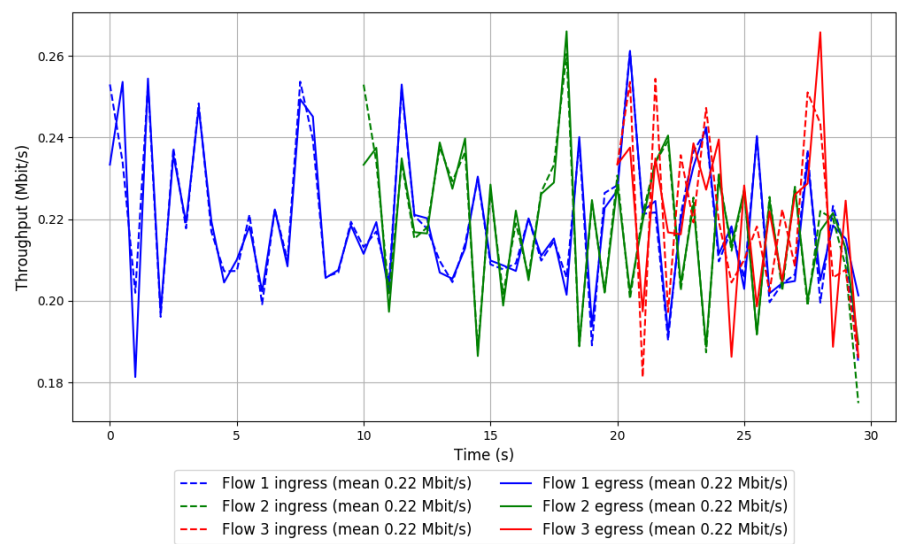


Run 2: Statistics of SReAM

Start at: 2017-11-16 10:54:20
End at: 2017-11-16 10:54:50
Local clock offset: 0.735 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.002 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.005 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

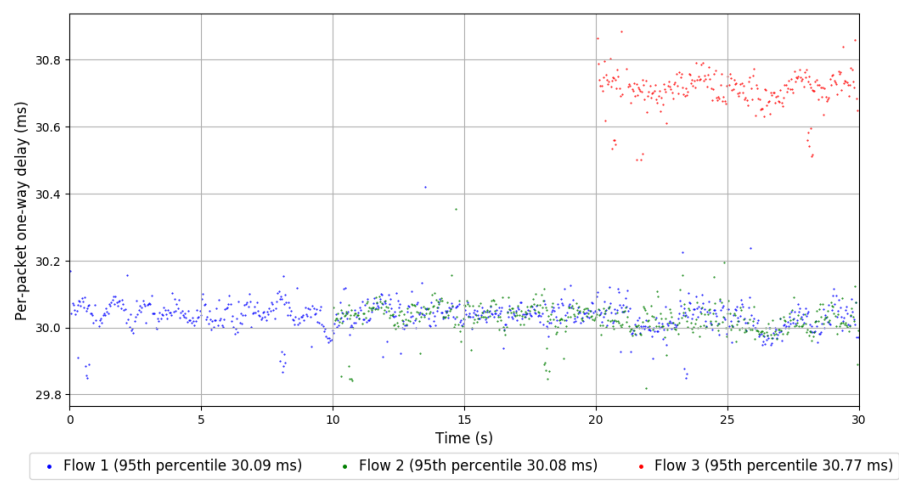
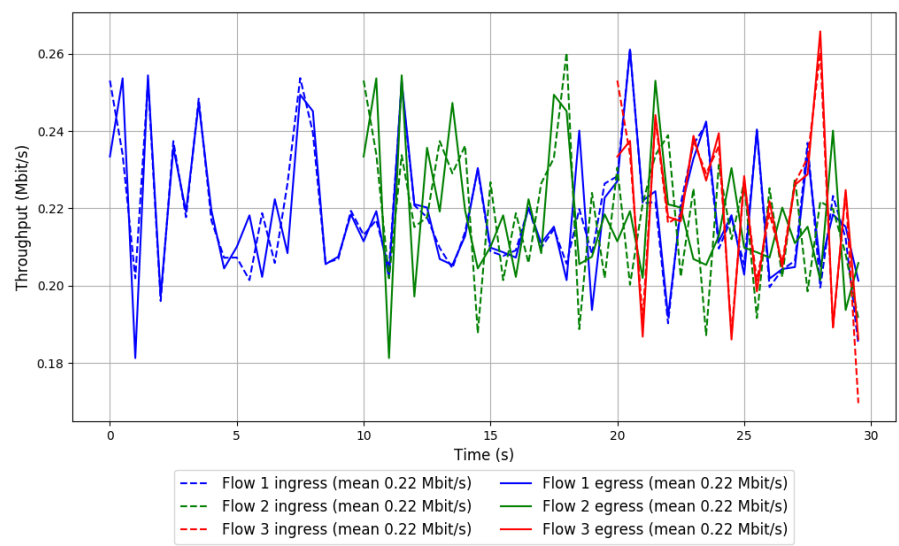


Run 3: Statistics of SReAM

Start at: 2017-11-16 11:13:36
End at: 2017-11-16 11:14:06
Local clock offset: 0.506 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.093 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.081 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.771 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

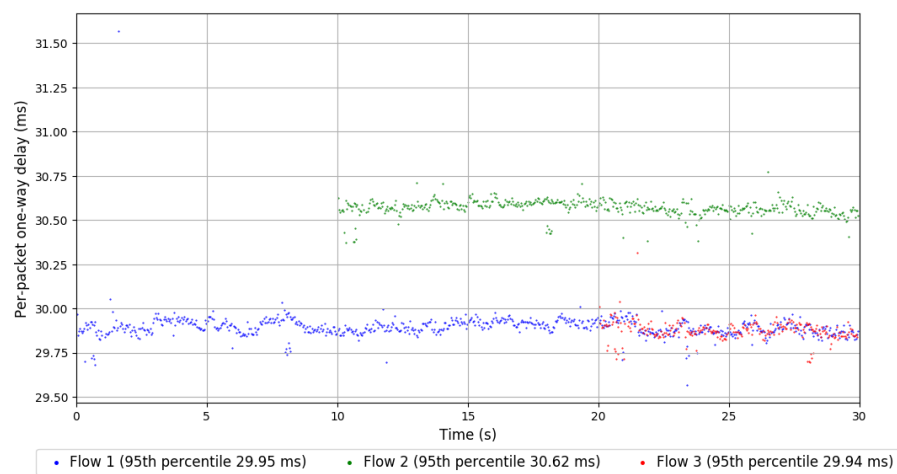
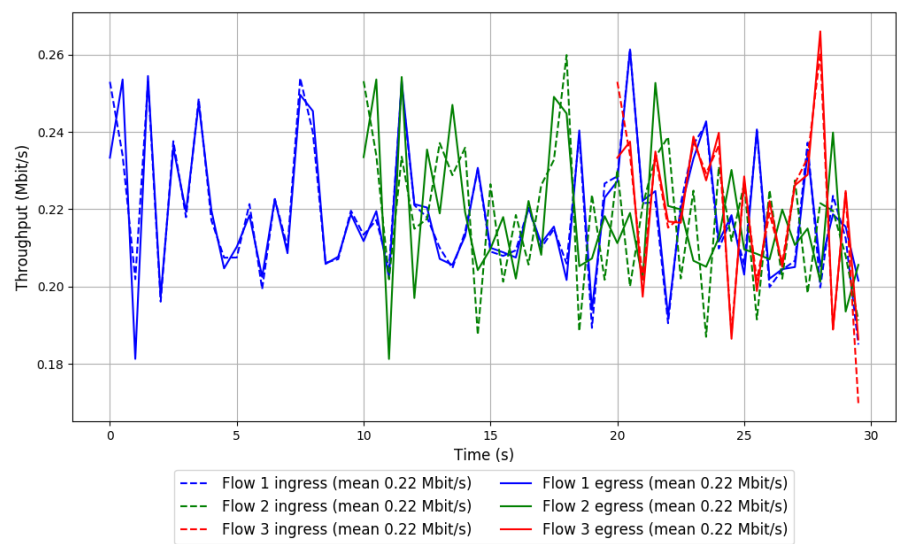


Run 4: Statistics of SReAM

Start at: 2017-11-16 11:32:44
End at: 2017-11-16 11:33:14
Local clock offset: 0.391 ms
Remote clock offset: -0.537 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.624 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.943 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-16 11:51:54

End at: 2017-11-16 11:52:24

Local clock offset: 0.3 ms

Remote clock offset: -0.41 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.563 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.584 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.895 ms

Loss rate: 0.00%

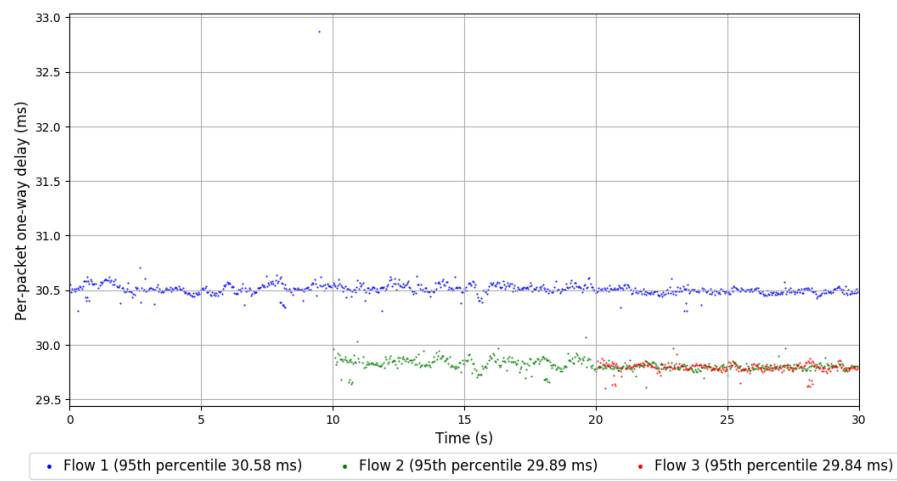
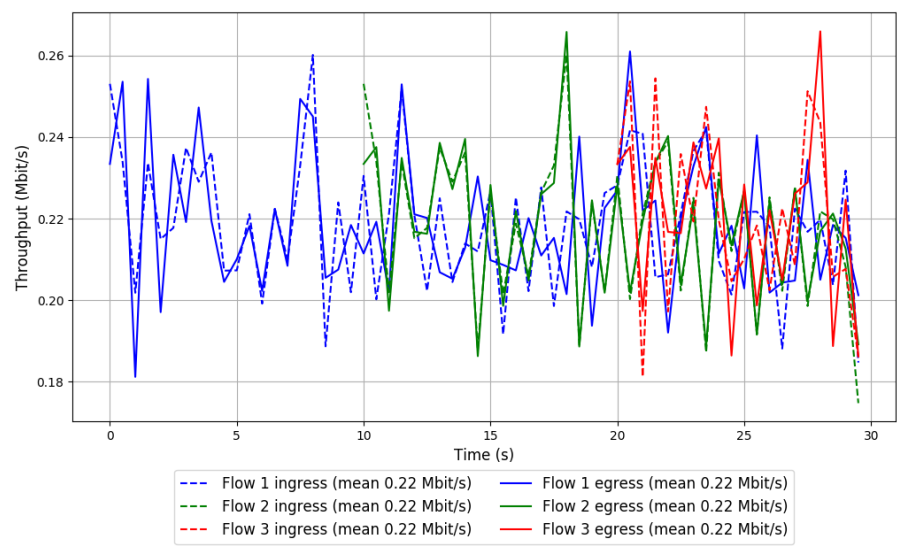
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.841 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

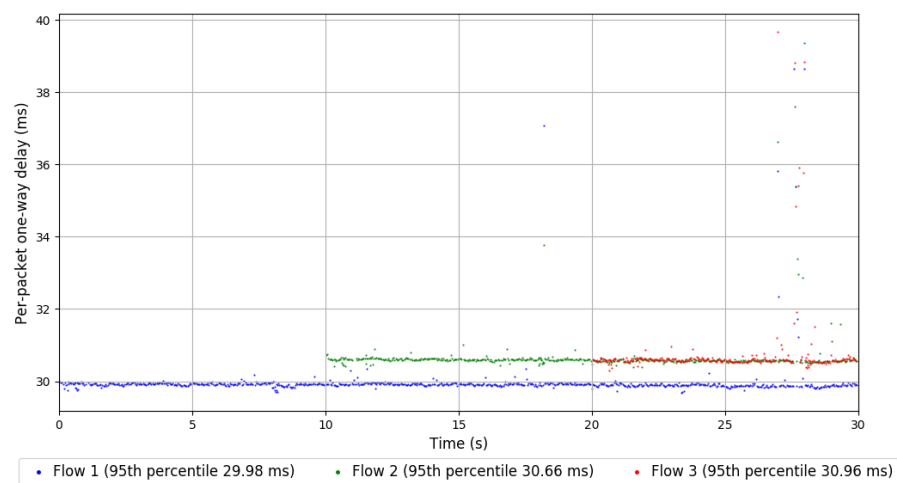
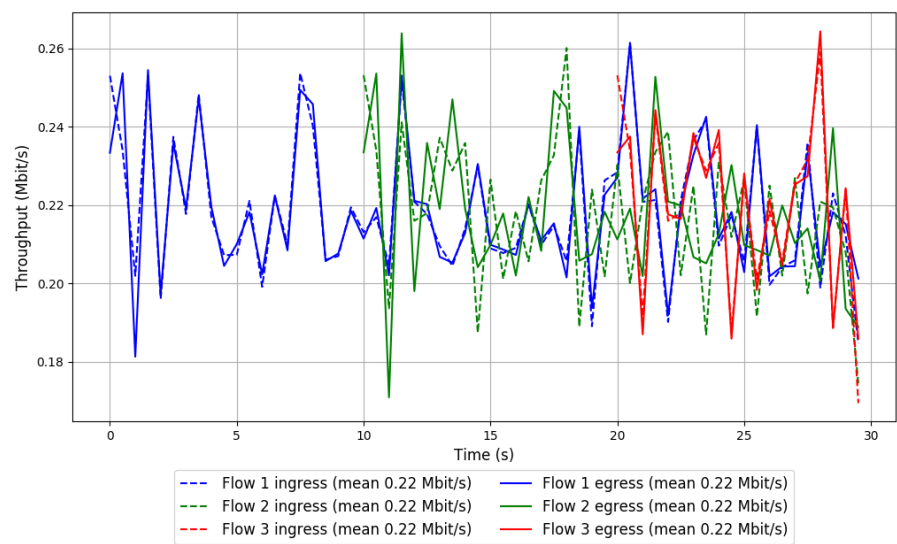


Run 6: Statistics of SReAM

Start at: 2017-11-16 12:11:14
End at: 2017-11-16 12:11:44
Local clock offset: 0.28 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.976 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.664 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.965 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

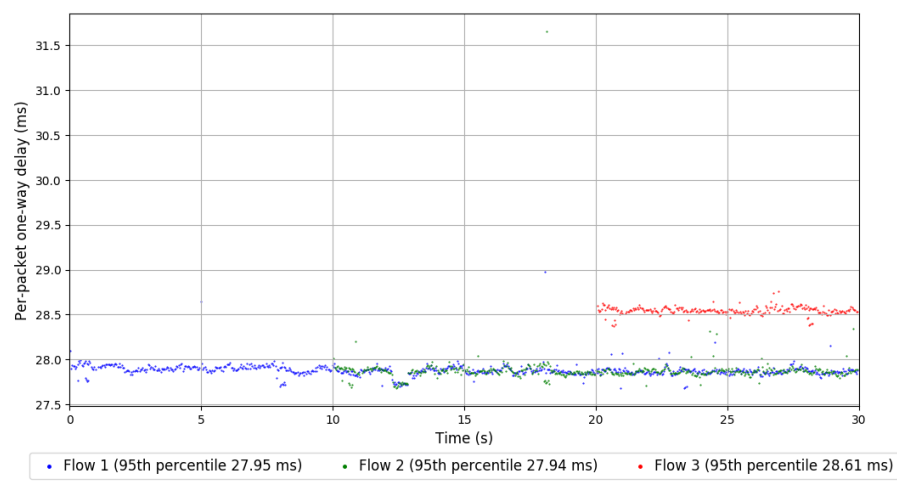
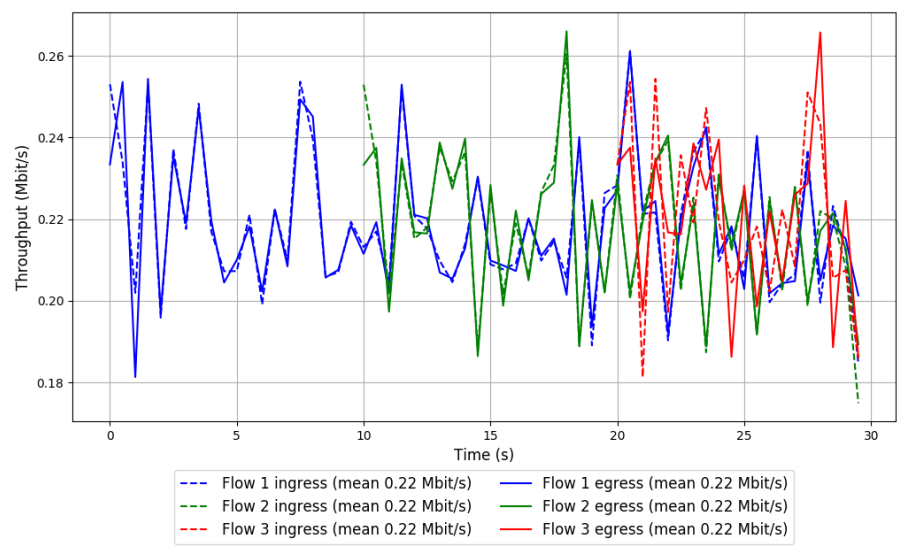


Run 7: Statistics of SReAM

Start at: 2017-11-16 12:30:41
End at: 2017-11-16 12:31:11
Local clock offset: 0.149 ms
Remote clock offset: -1.934 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 28.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.942 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.610 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-16 12:50:09

End at: 2017-11-16 12:50:39

Local clock offset: 0.169 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.024 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.995 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.102 ms

Loss rate: 0.00%

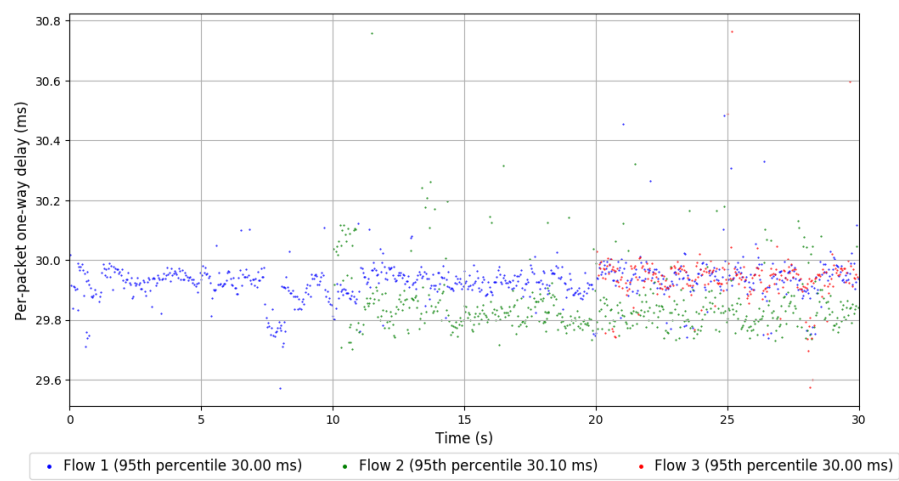
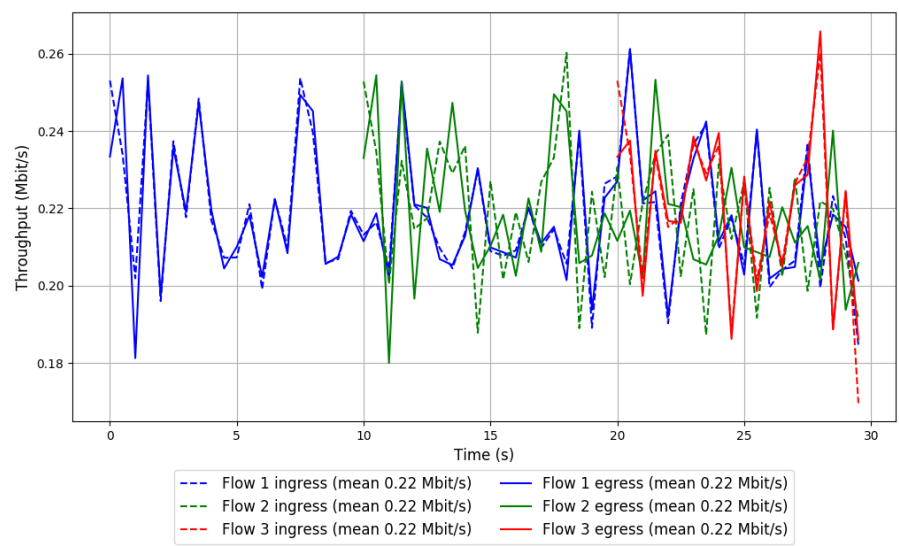
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.003 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2017-11-16 13:09:26

End at: 2017-11-16 13:09:56

Local clock offset: 0.08 ms

Remote clock offset: -1.88 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 28.482 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 27.886 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 27.877 ms

Loss rate: 0.21%

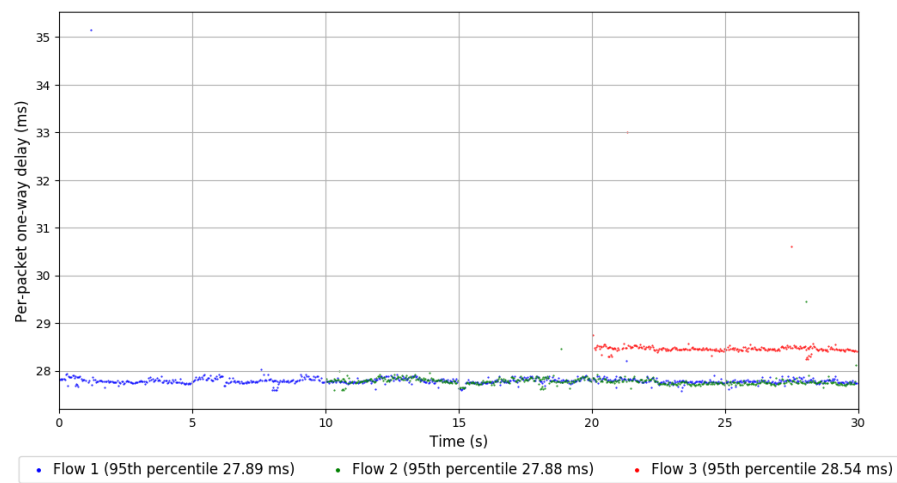
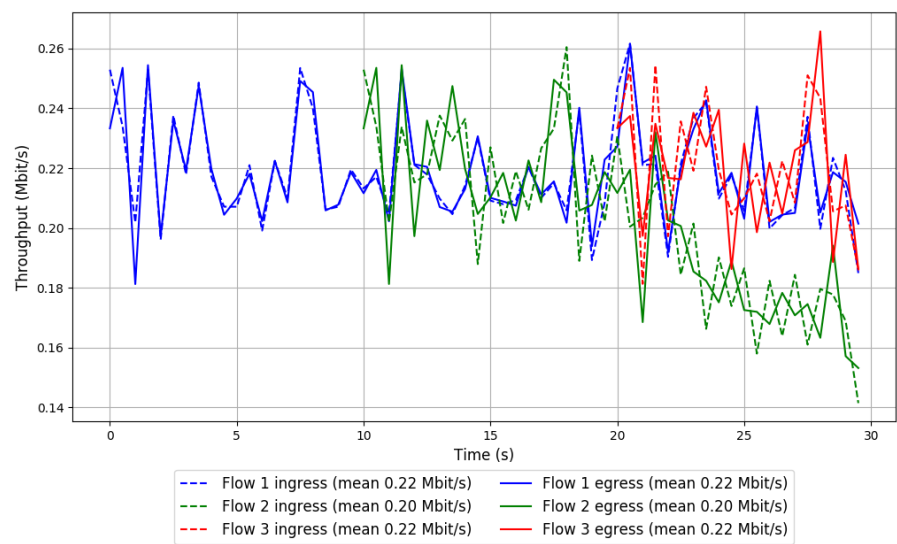
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.538 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-16 13:28:55

End at: 2017-11-16 13:29:25

Local clock offset: 0.093 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 30.793 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.809 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.108 ms

Loss rate: 0.00%

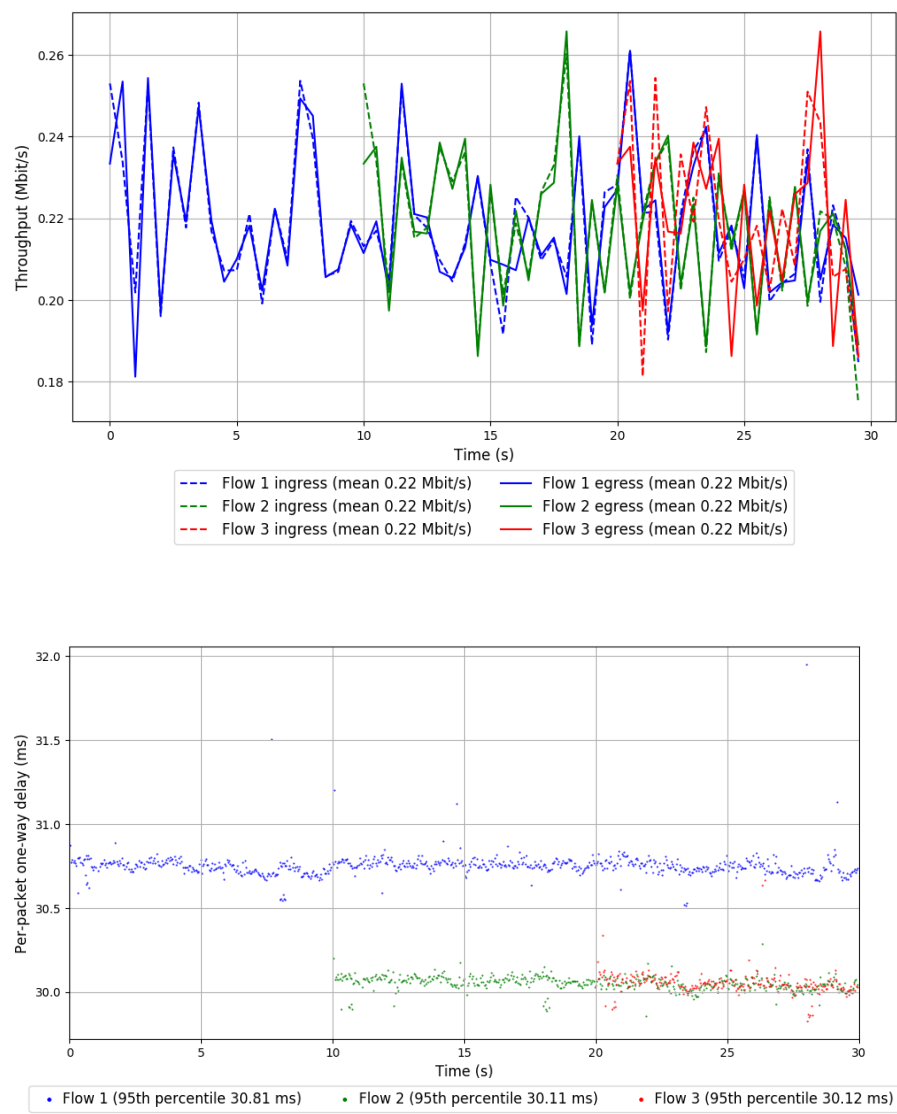
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.121 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

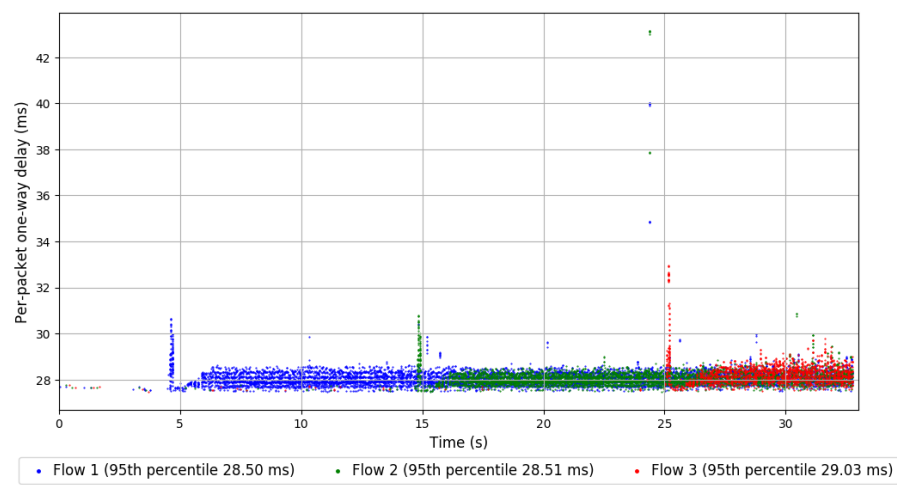
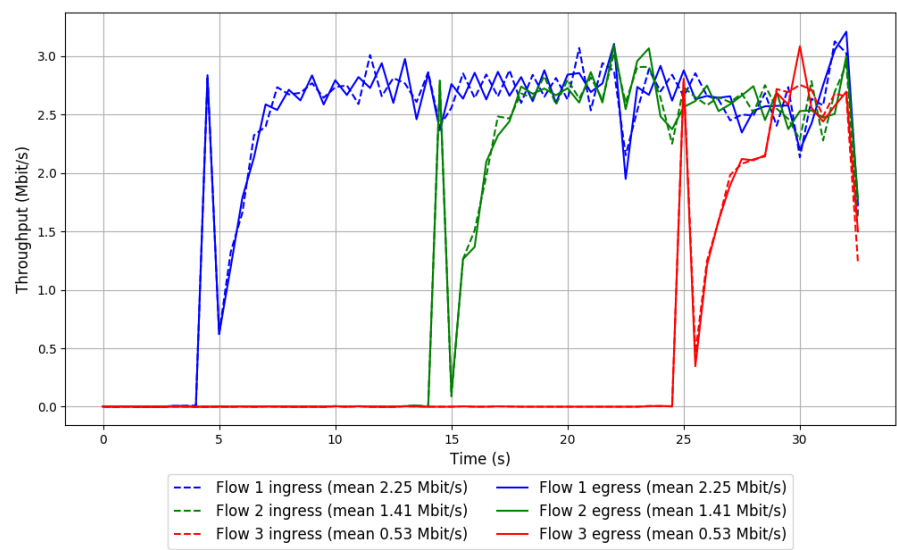


Run 1: Statistics of WebRTC media

Start at: 2017-11-16 10:40:38
End at: 2017-11-16 10:41:08
Local clock offset: 0.833 ms
Remote clock offset: -1.791 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 28.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 28.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 28.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 29.026 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 10:59:44

End at: 2017-11-16 11:00:14

Local clock offset: 0.588 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 31.562 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 31.148 ms

Loss rate: 0.00%

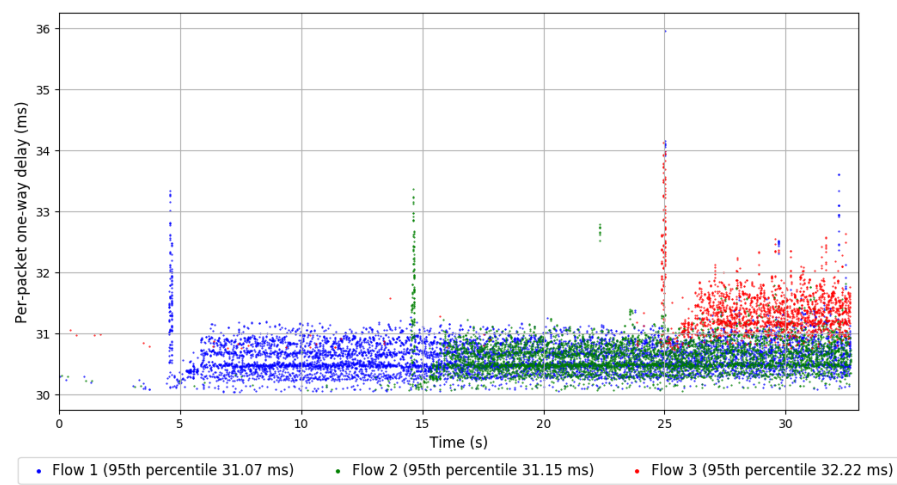
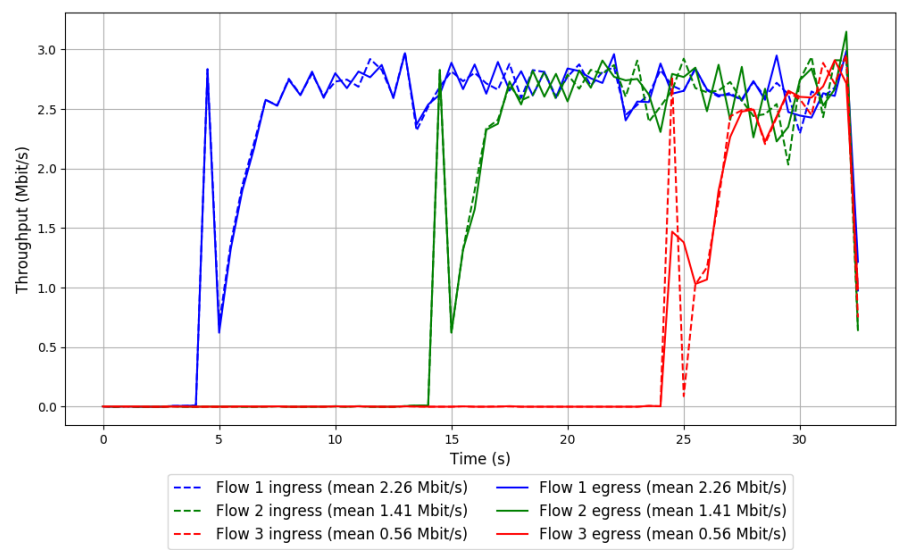
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 32.223 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

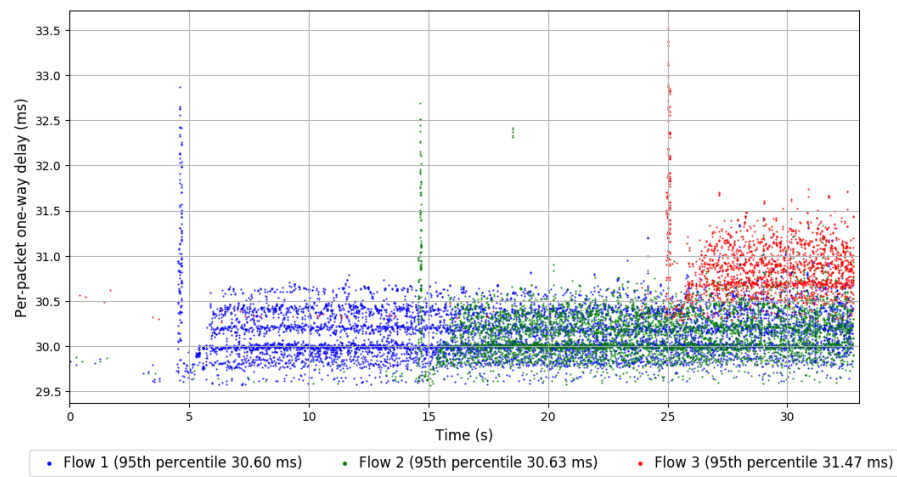
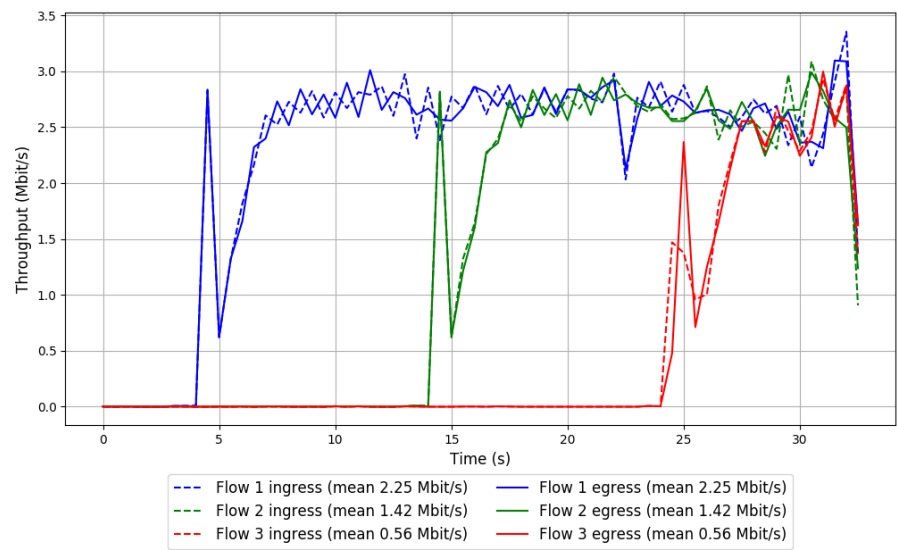


Run 3: Statistics of WebRTC media

Start at: 2017-11-16 11:19:02
End at: 2017-11-16 11:19:32
Local clock offset: 0.547 ms
Remote clock offset: -0.426 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 31.005 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 30.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 31.472 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

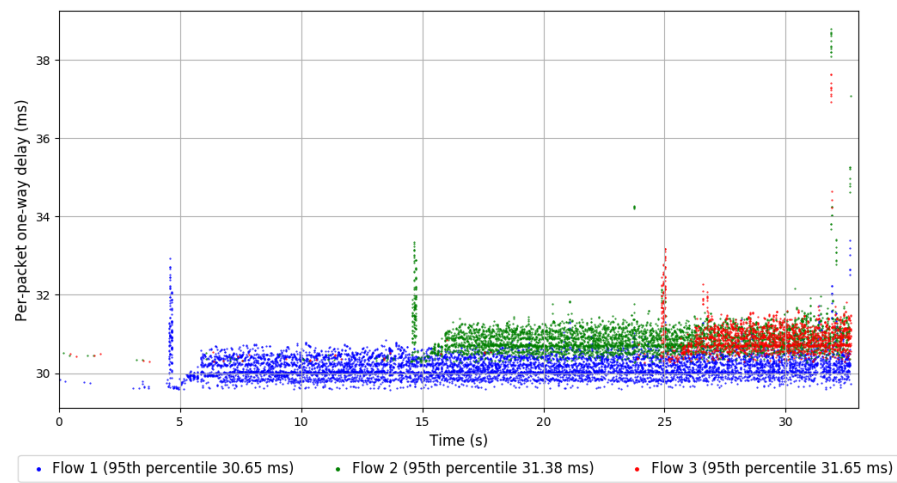
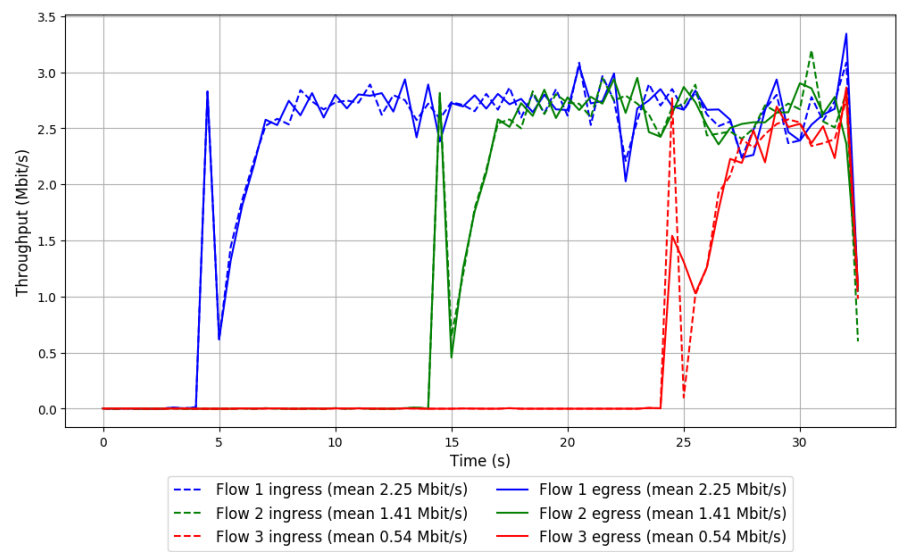


Run 4: Statistics of WebRTC media

Start at: 2017-11-16 11:38:12
End at: 2017-11-16 11:38:42
Local clock offset: 0.346 ms
Remote clock offset: -0.447 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 31.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 31.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 31.652 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

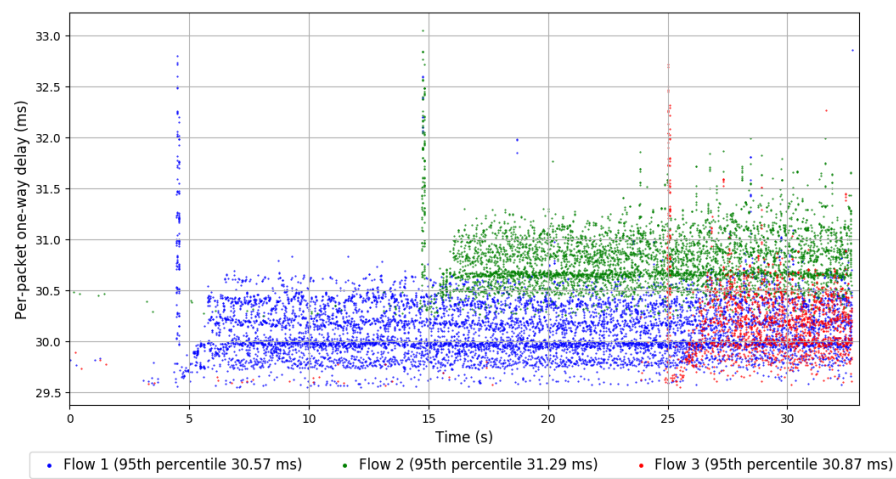
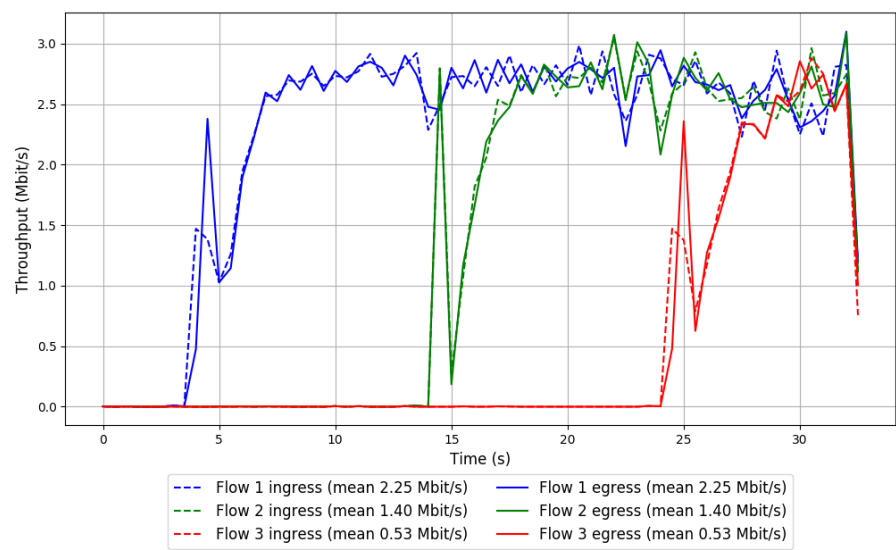


Run 5: Statistics of WebRTC media

Start at: 2017-11-16 11:57:17
End at: 2017-11-16 11:57:47
Local clock offset: 0.224 ms
Remote clock offset: -0.347 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 31.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 30.575 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 31.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 30.870 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

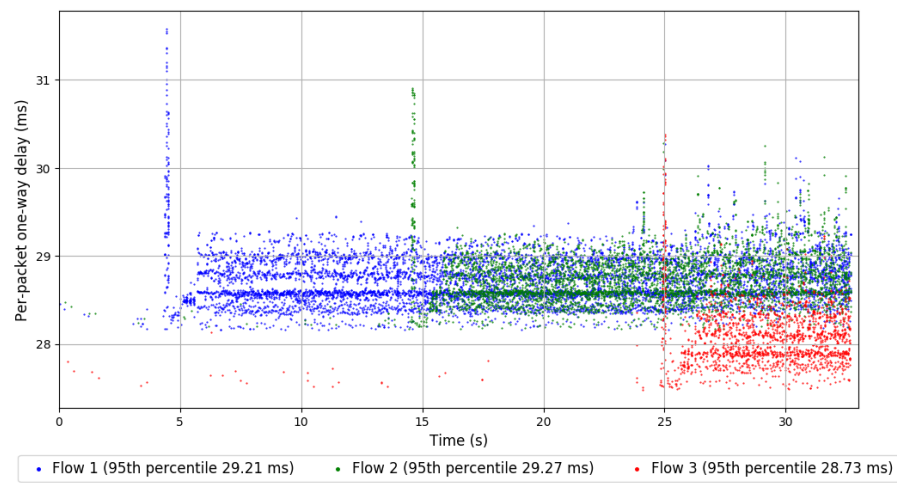
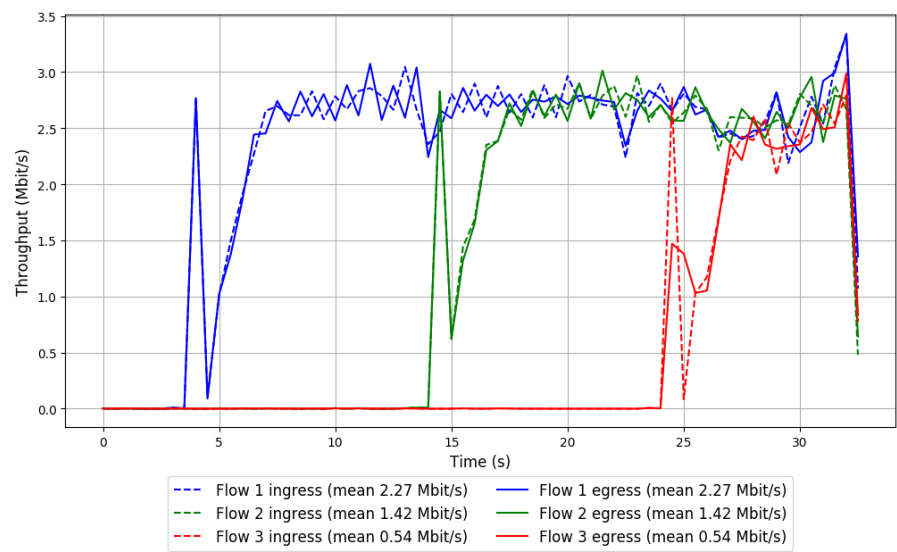


Run 6: Statistics of WebRTC media

Start at: 2017-11-16 12:16:50
End at: 2017-11-16 12:17:20
Local clock offset: 0.135 ms
Remote clock offset: -2.353 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 29.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 29.206 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 29.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 28.726 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 12:36:10

End at: 2017-11-16 12:36:40

Local clock offset: 0.037 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 31.477 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.450 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 31.572 ms

Loss rate: 0.00%

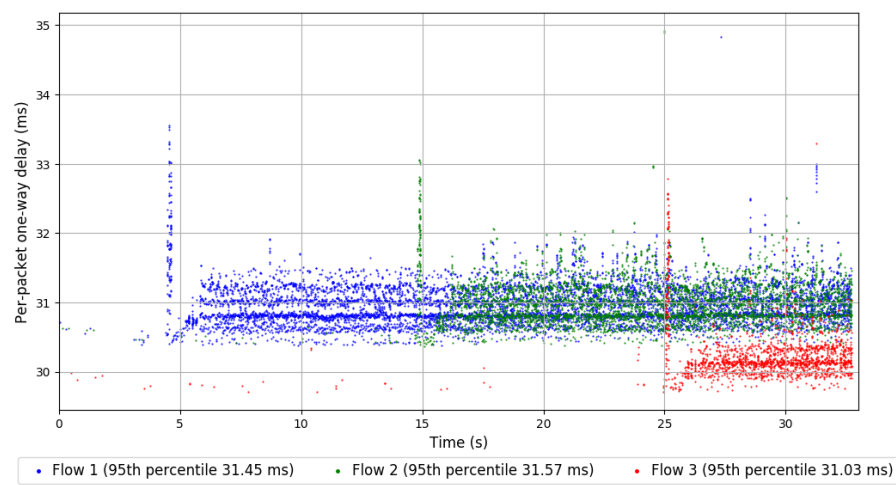
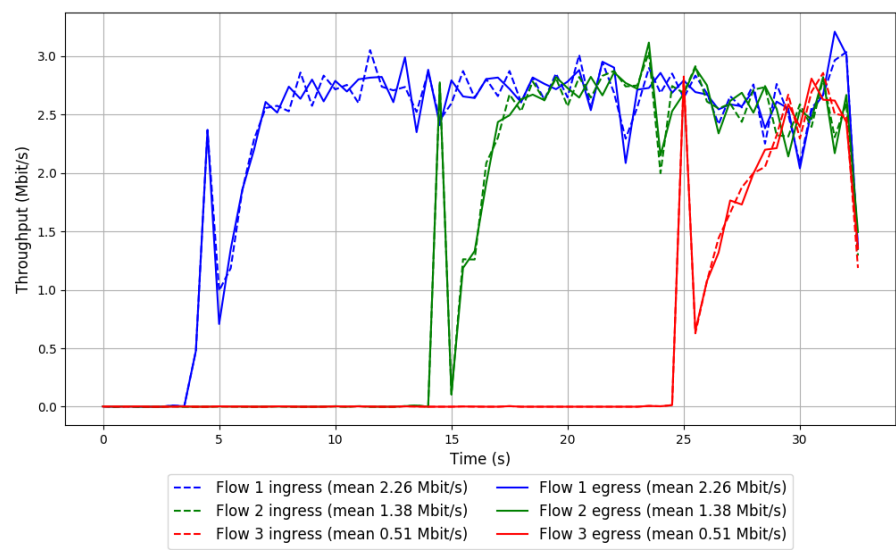
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 31.026 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 12:55:37

End at: 2017-11-16 12:56:07

Local clock offset: 0.047 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 31.120 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 31.076 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

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

Loss rate: 0.00%

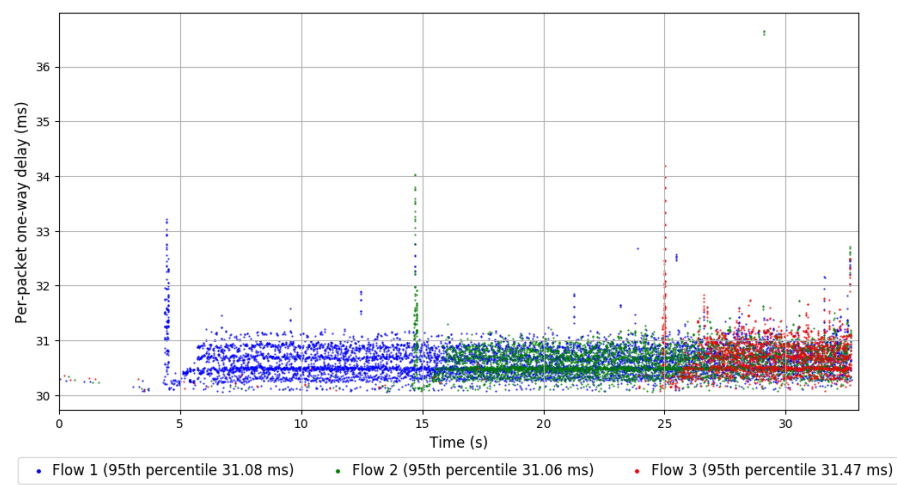
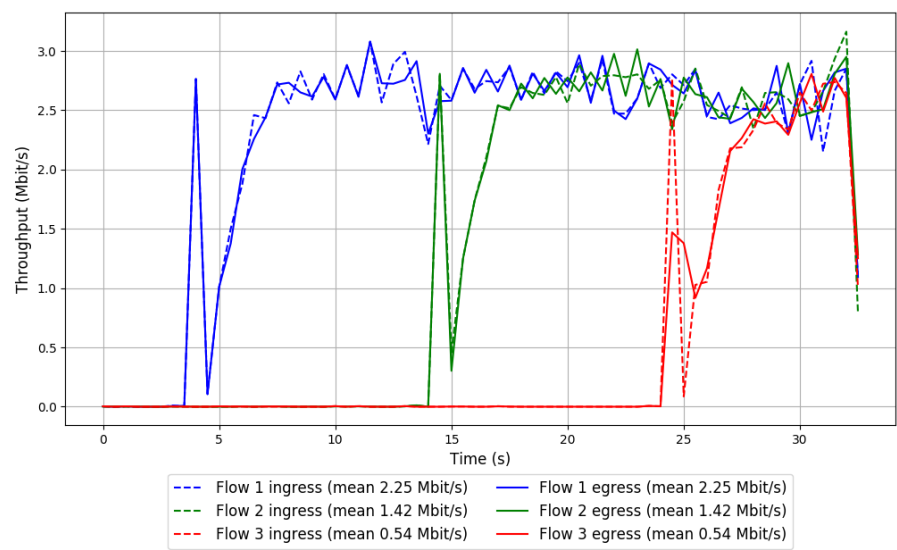
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 31.473 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 13:14:59

End at: 2017-11-16 13:15:29

Local clock offset: 0.19 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 31.227 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 31.197 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 31.198 ms

Loss rate: 0.00%

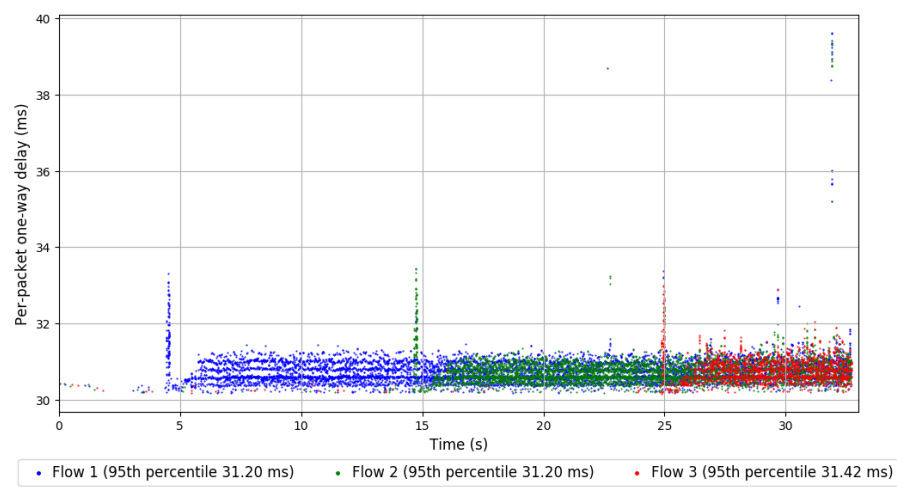
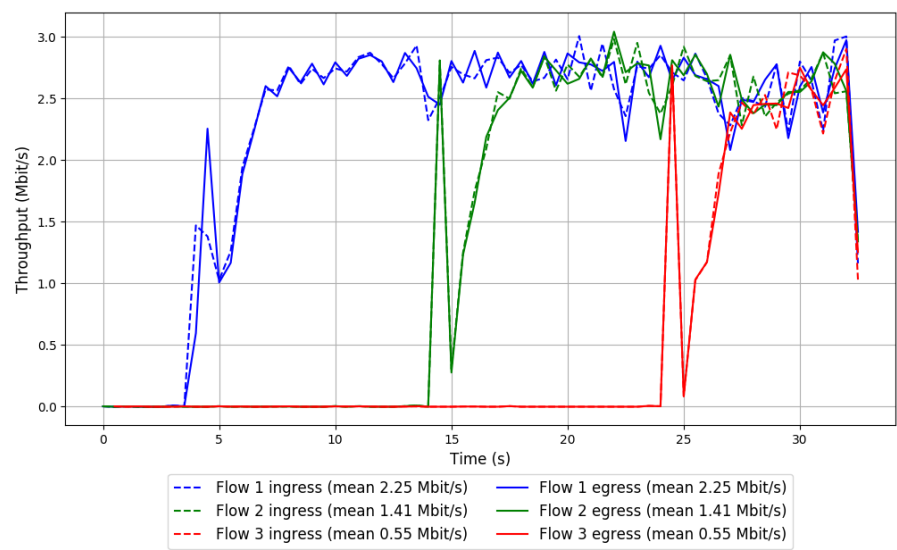
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 31.419 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 13:34:29

End at: 2017-11-16 13:34:59

Local clock offset: 0.081 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.19 Mbit/s

95th percentile per-packet one-way delay: 31.847 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 31.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 31.806 ms

Loss rate: 0.02%

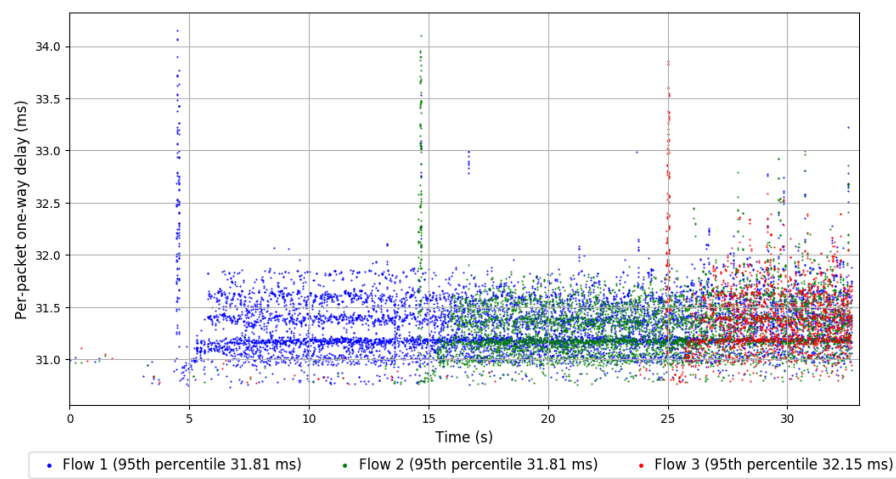
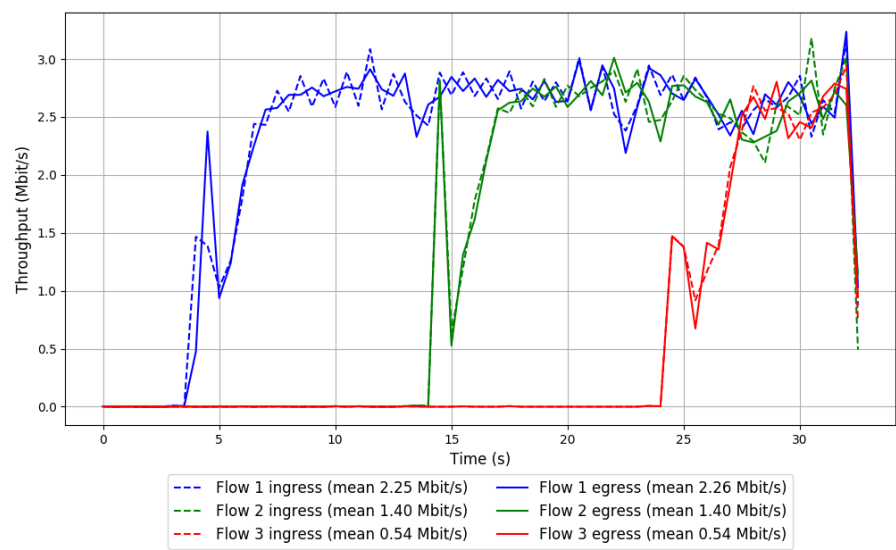
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 32.151 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-16 10:44:40

End at: 2017-11-16 10:45:10

Local clock offset: 0.793 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 34.976 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 35.089 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.84 Mbit/s

95th percentile per-packet one-way delay: 34.186 ms

Loss rate: 0.05%

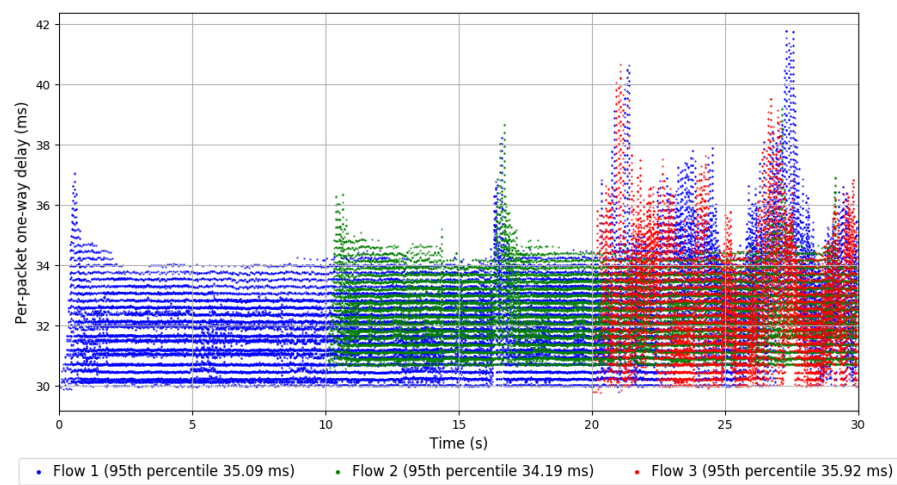
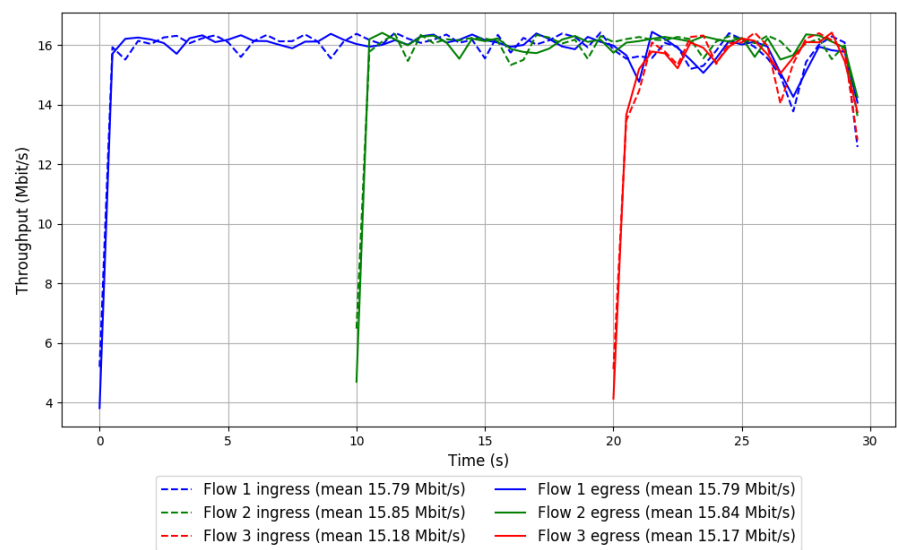
-- Flow 3:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 35.924 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

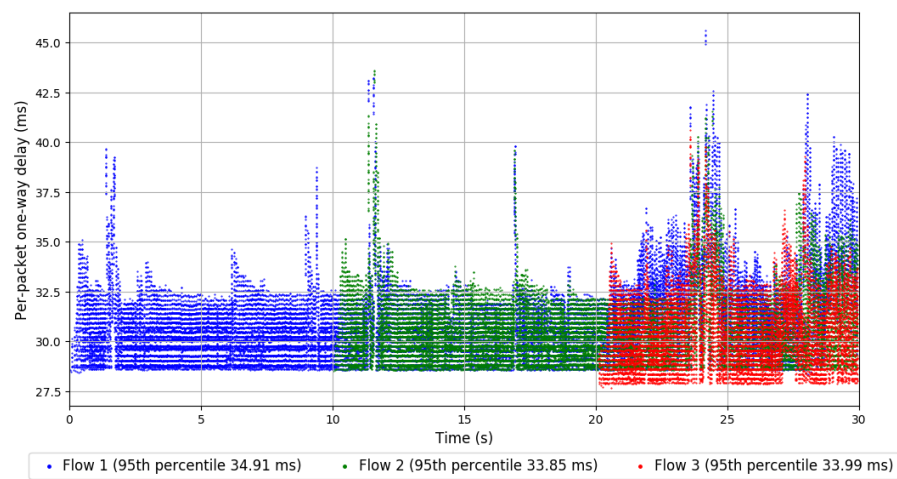
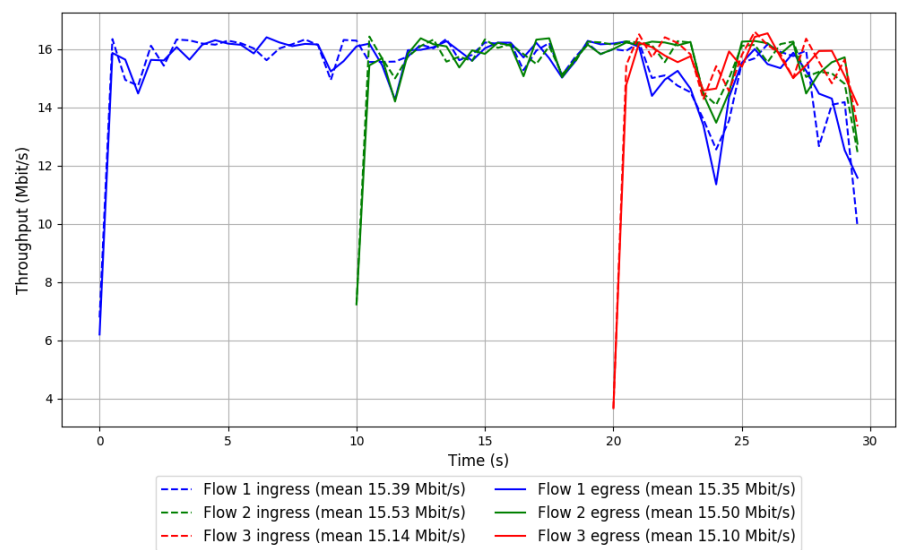


Run 2: Statistics of Sprout

Start at: 2017-11-16 11:03:43
End at: 2017-11-16 11:04:13
Local clock offset: 0.552 ms
Remote clock offset: -2.2 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.64 Mbit/s
95th percentile per-packet one-way delay: 34.423 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 34.914 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 33.846 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 33.993 ms
Loss rate: 0.20%

Run 2: Report of Sprout — Data Link

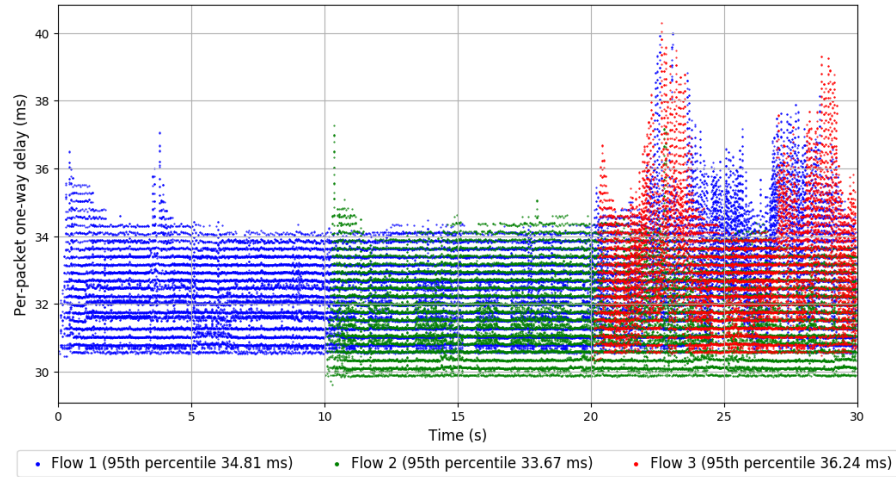
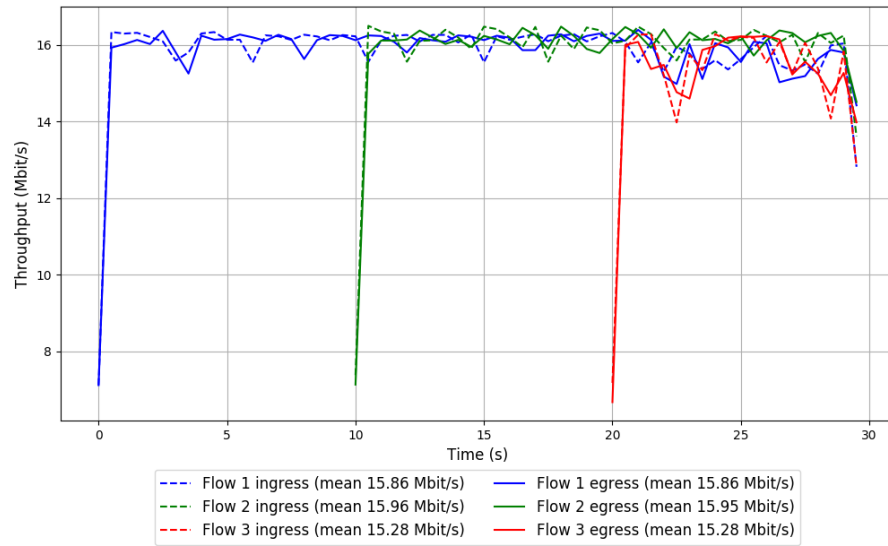


Run 3: Statistics of Sprout

Start at: 2017-11-16 11:23:03
End at: 2017-11-16 11:23:33
Local clock offset: 0.407 ms
Remote clock offset: -0.516 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 34.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.86 Mbit/s
95th percentile per-packet one-way delay: 34.812 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.95 Mbit/s
95th percentile per-packet one-way delay: 33.673 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.28 Mbit/s
95th percentile per-packet one-way delay: 36.240 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

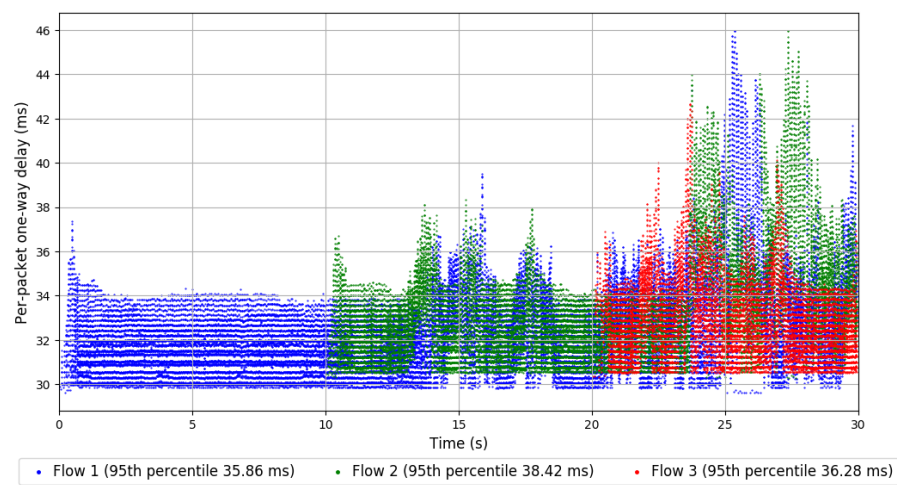
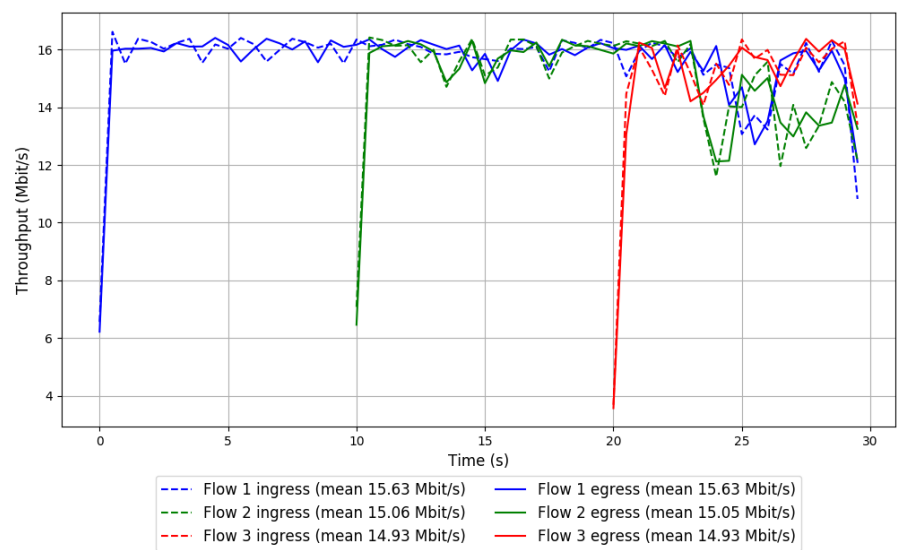


Run 4: Statistics of Sprout

Start at: 2017-11-16 11:42:13
End at: 2017-11-16 11:42:43
Local clock offset: 0.225 ms
Remote clock offset: -0.5 ms

```
# Below is generated by plot.py at 2017-11-16 14:17:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 36.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 35.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.05 Mbit/s
95th percentile per-packet one-way delay: 38.424 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 36.278 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

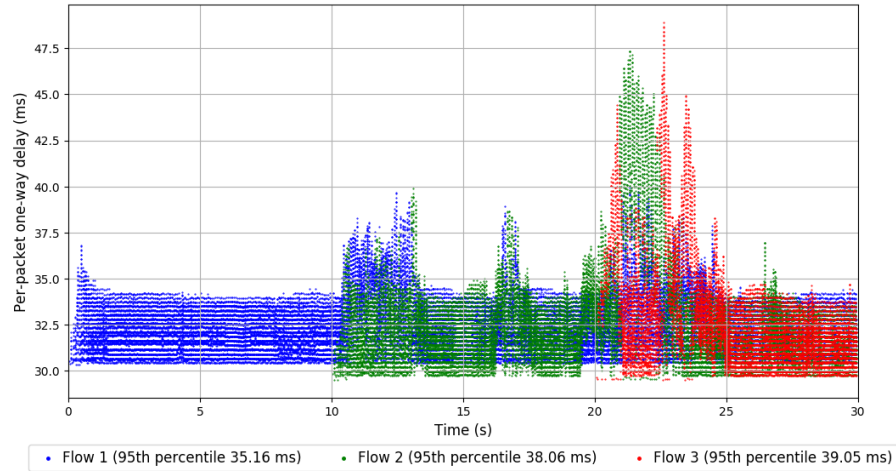
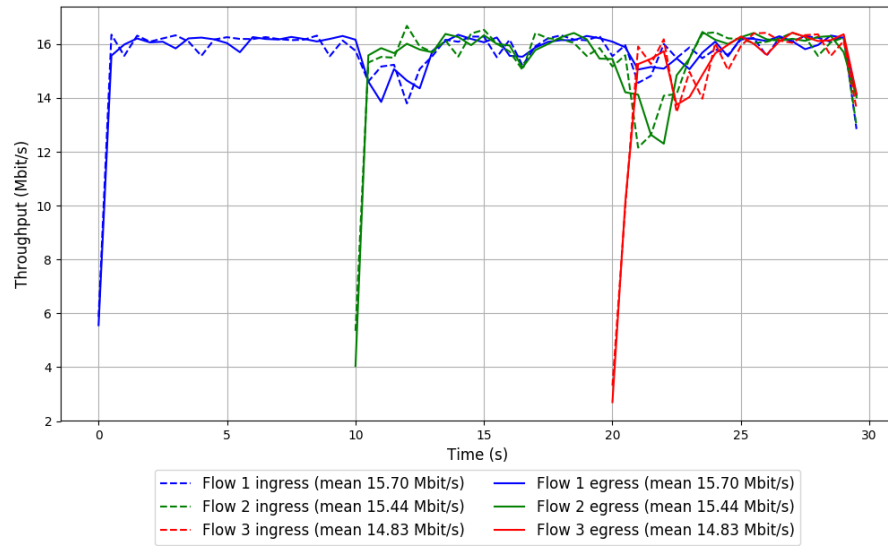


Run 5: Statistics of Sprout

Start at: 2017-11-16 12:01:16
End at: 2017-11-16 12:01:46
Local clock offset: 0.282 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2017-11-16 14:17:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 36.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 35.155 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 38.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.83 Mbit/s
95th percentile per-packet one-way delay: 39.046 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 12:20:55

End at: 2017-11-16 12:21:25

Local clock offset: 0.199 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2017-11-16 14:17:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.08 Mbit/s

95th percentile per-packet one-way delay: 36.115 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 35.911 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 35.009 ms

Loss rate: 0.00%

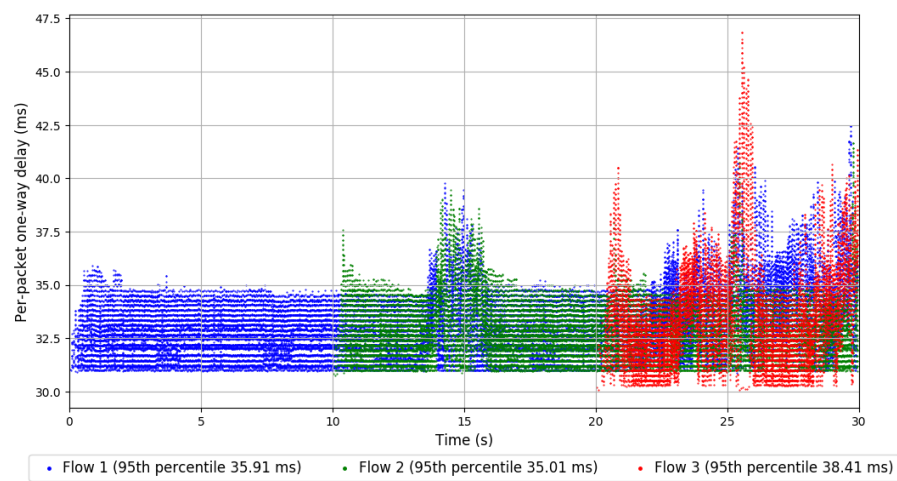
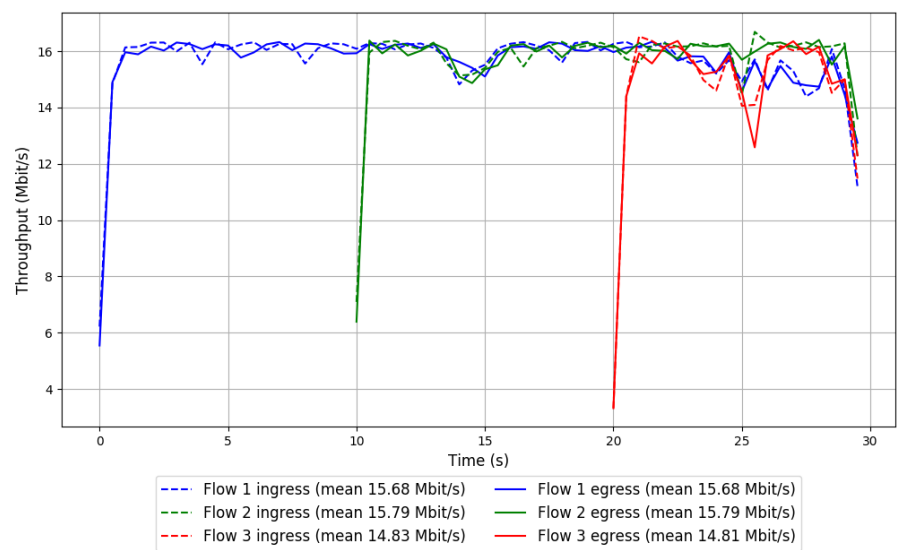
-- Flow 3:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 38.407 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 12:40:13

End at: 2017-11-16 12:40:43

Local clock offset: 0.11 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2017-11-16 14:17:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 35.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 34.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 35.763 ms

Loss rate: 0.00%

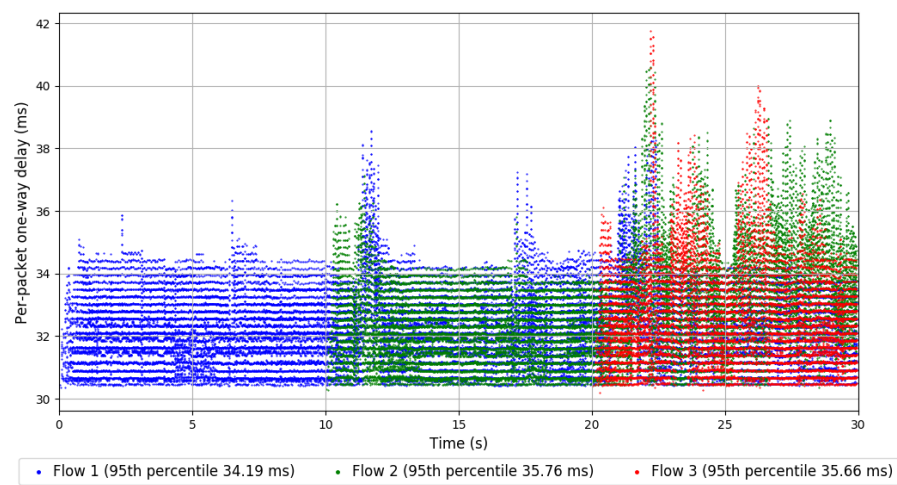
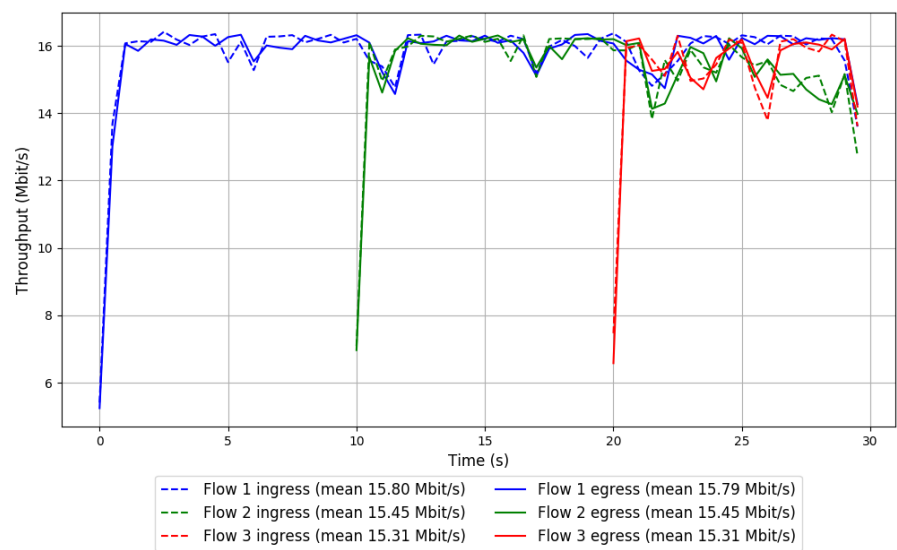
-- Flow 3:

Average throughput: 15.31 Mbit/s

95th percentile per-packet one-way delay: 35.665 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 12:59:39

End at: 2017-11-16 13:00:09

Local clock offset: 0.171 ms

Remote clock offset: 0.661 ms

Below is generated by plot.py at 2017-11-16 14:17:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 36.898 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 36.660 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 36.956 ms

Loss rate: 0.00%

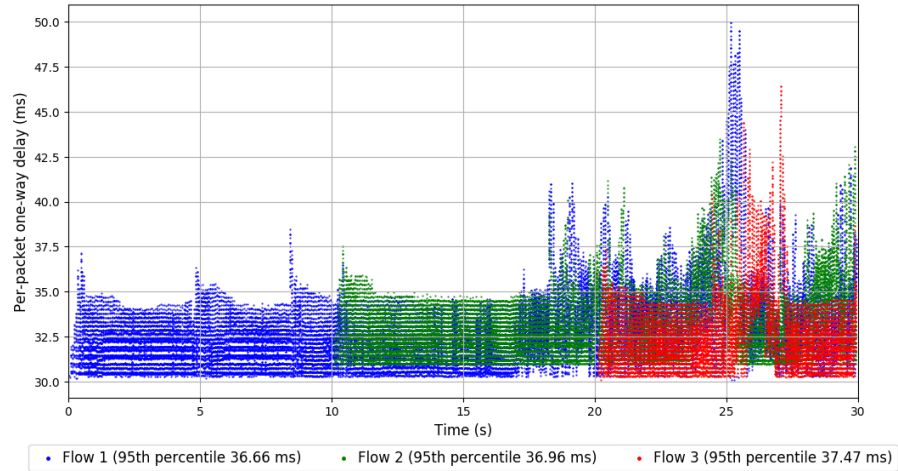
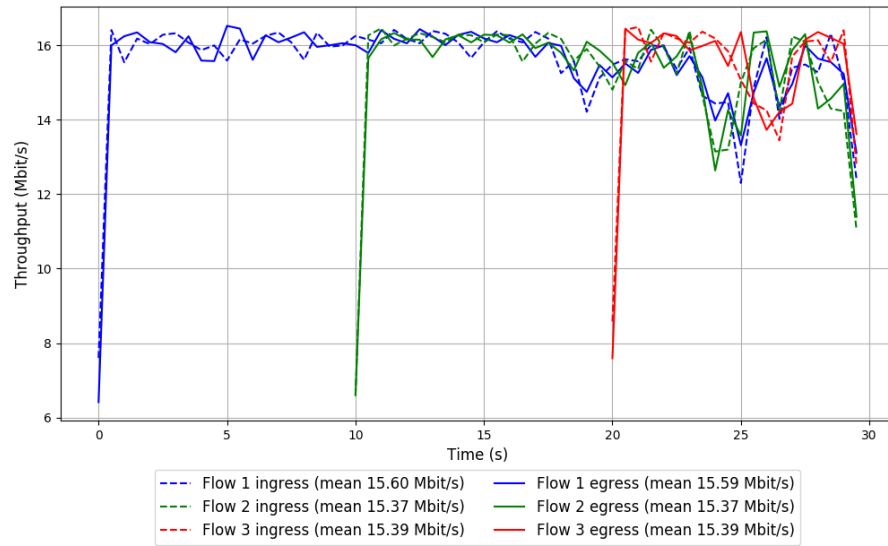
-- Flow 3:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 37.465 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 13:19:01

End at: 2017-11-16 13:19:31

Local clock offset: 0.171 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2017-11-16 14:17:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 36.210 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 35.651 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 15.20 Mbit/s

95th percentile per-packet one-way delay: 36.559 ms

Loss rate: 0.20%

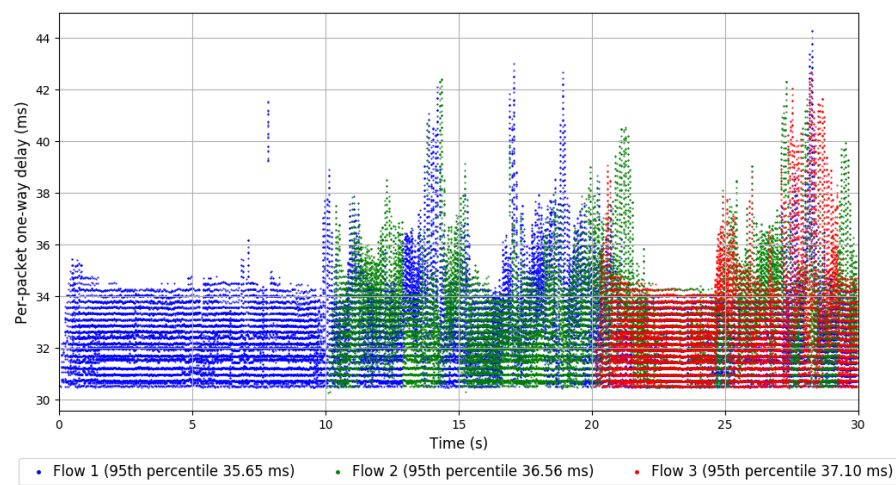
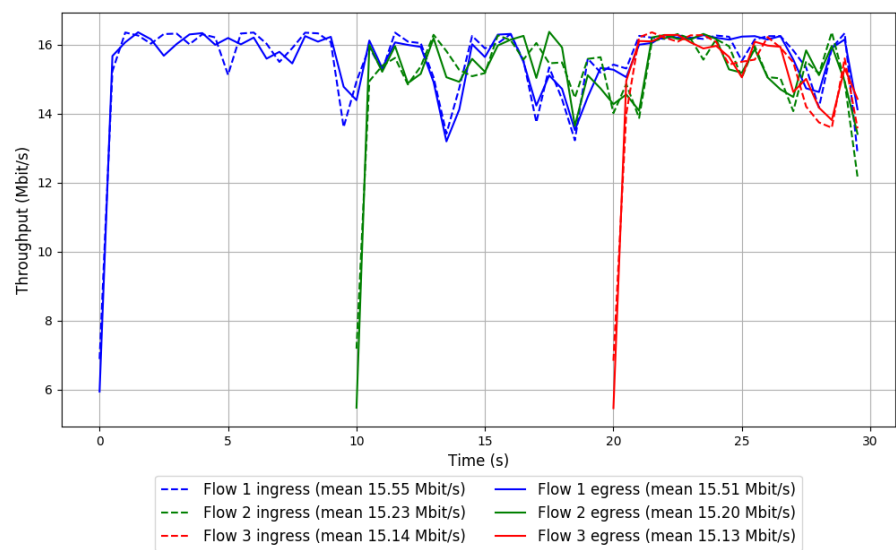
-- Flow 3:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 37.103 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 13:38:37

End at: 2017-11-16 13:39:07

Local clock offset: 0.077 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2017-11-16 14:17:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 35.924 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 15.61 Mbit/s

95th percentile per-packet one-way delay: 34.866 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 36.649 ms

Loss rate: 0.13%

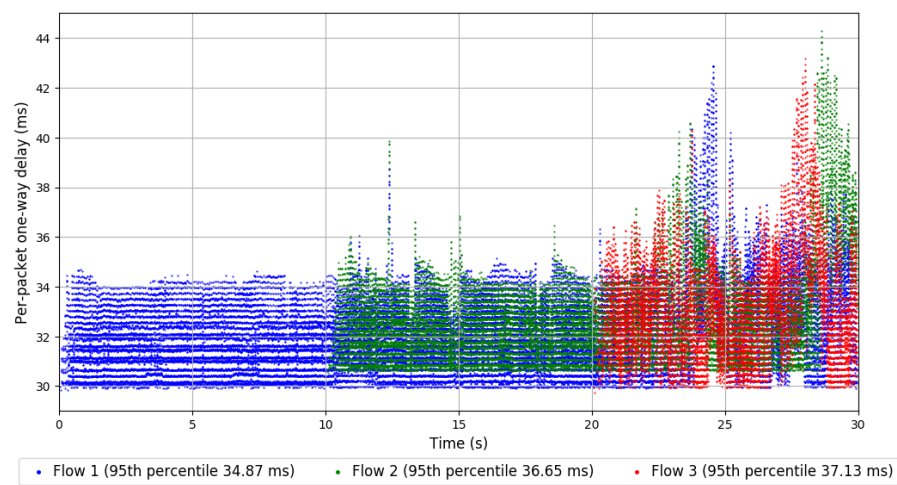
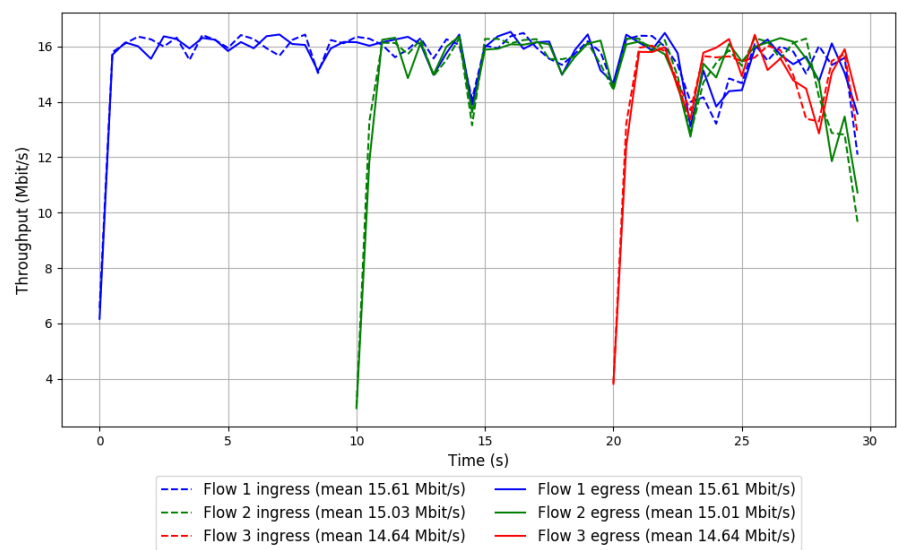
-- Flow 3:

Average throughput: 14.64 Mbit/s

95th percentile per-packet one-way delay: 37.126 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

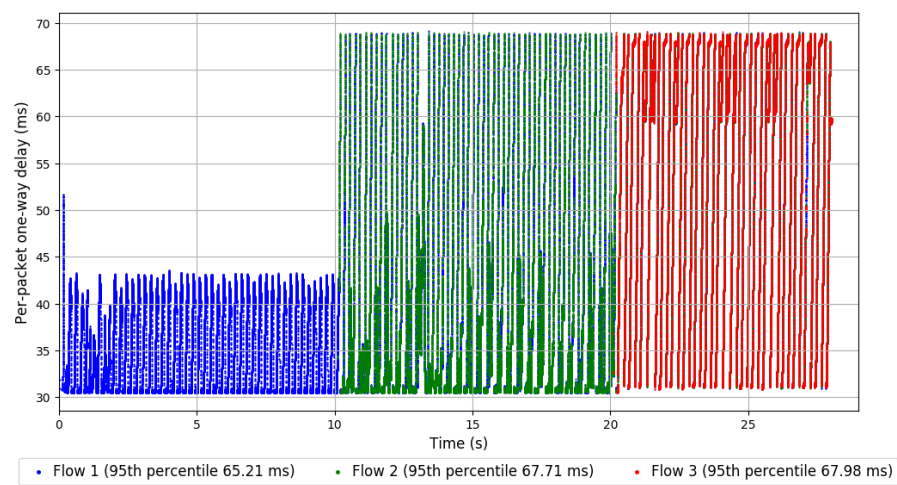
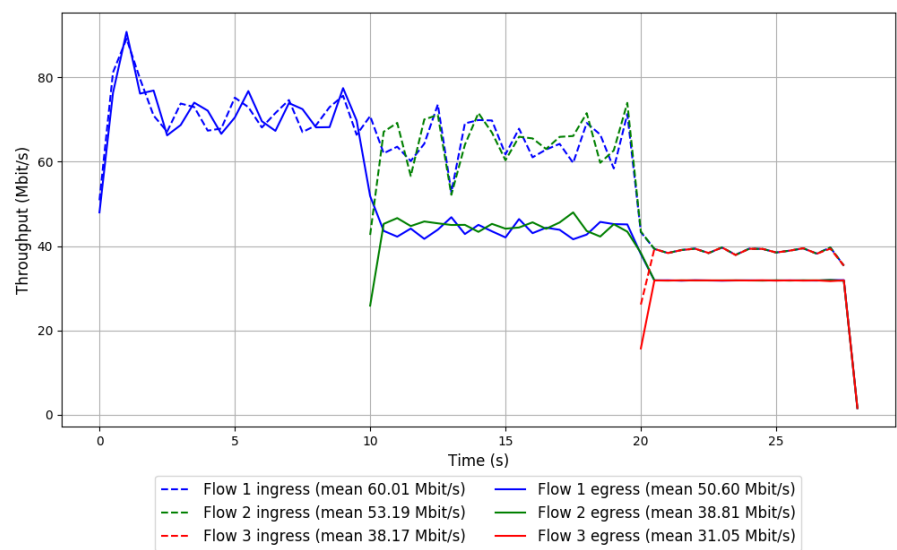


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 10:30:55
End at: 2017-11-16 10:31:25
Local clock offset: 1.005 ms
Remote clock offset: 0.856 ms

# Below is generated by plot.py at 2017-11-16 14:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 67.605 ms
Loss rate: 19.57%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 65.206 ms
Loss rate: 15.60%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 67.712 ms
Loss rate: 26.91%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 67.985 ms
Loss rate: 18.42%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 10:50:11

End at: 2017-11-16 10:50:41

Local clock offset: 0.815 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2017-11-16 14:19:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 67.045 ms

Loss rate: 18.84%

-- Flow 1:

Average throughput: 51.34 Mbit/s

95th percentile per-packet one-way delay: 64.555 ms

Loss rate: 14.82%

-- Flow 2:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 67.470 ms

Loss rate: 25.96%

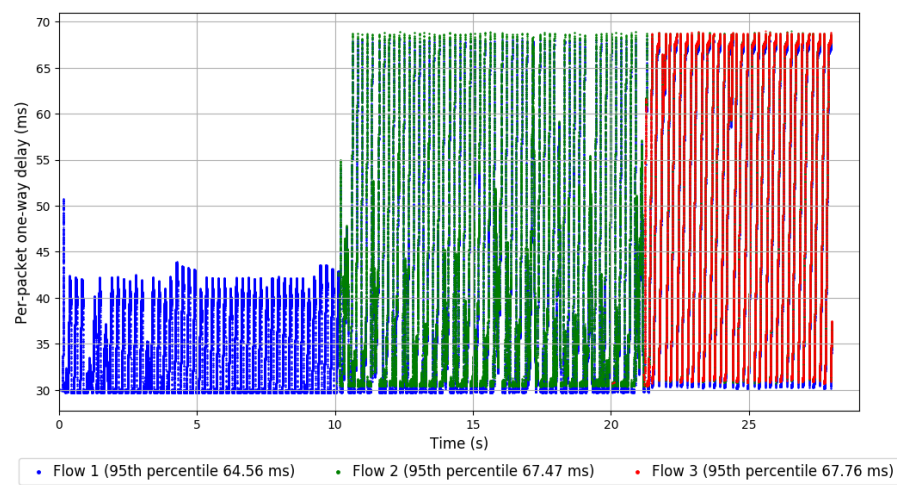
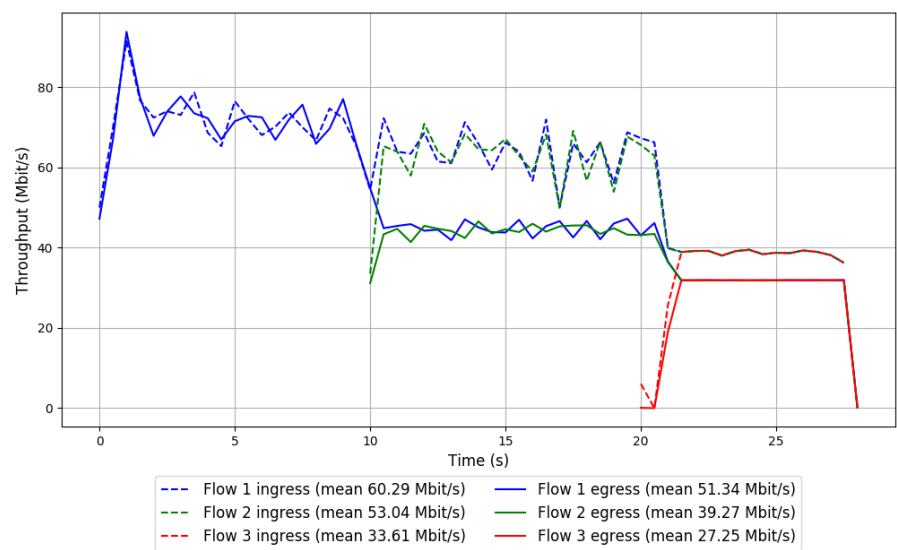
-- Flow 3:

Average throughput: 27.25 Mbit/s

95th percentile per-packet one-way delay: 67.764 ms

Loss rate: 18.87%

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

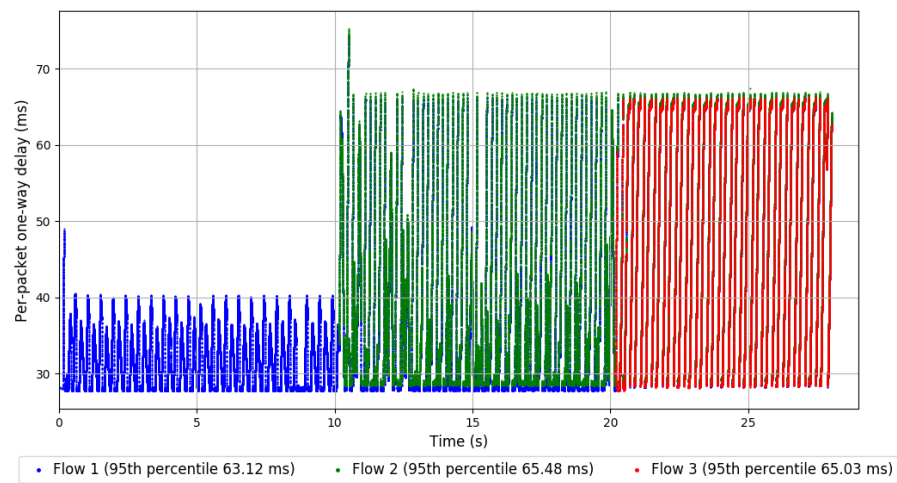
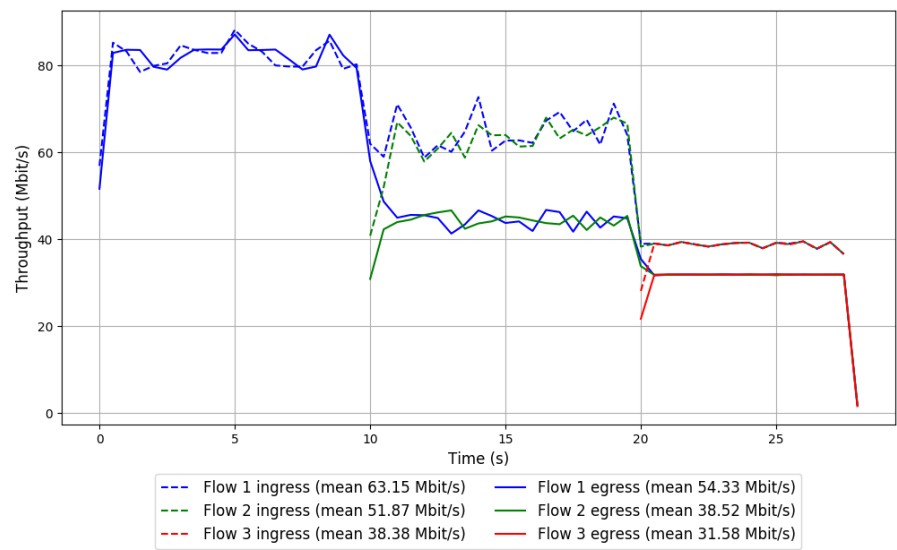


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 11:09:17
End at: 2017-11-16 11:09:47
Local clock offset: 0.613 ms
Remote clock offset: -2.293 ms

Below is generated by plot.py at 2017-11-16 14:20:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 64.838 ms
Loss rate: 17.87%
-- Flow 1:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 63.120 ms
Loss rate: 13.85%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 65.483 ms
Loss rate: 25.59%
-- Flow 3:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 65.031 ms
Loss rate: 17.61%

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

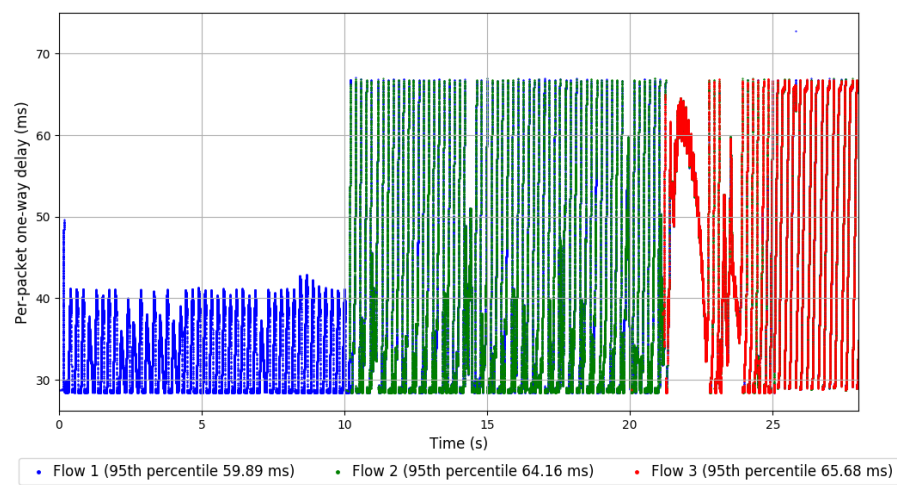
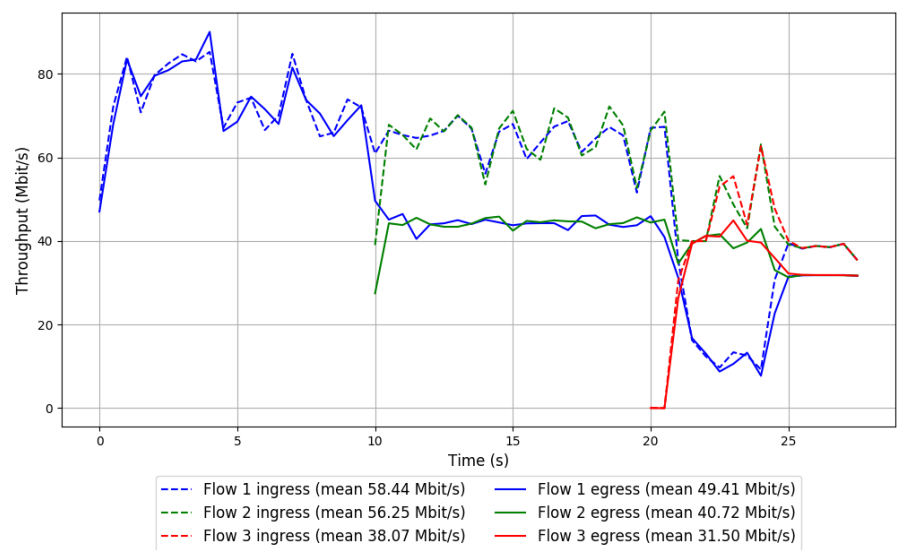


Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 11:28:34
End at: 2017-11-16 11:29:04
Local clock offset: 0.38 ms
Remote clock offset: -2.604 ms

Below is generated by plot.py at 2017-11-16 14:20:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.47 Mbit/s
95th percentile per-packet one-way delay: 63.159 ms
Loss rate: 19.78%
-- Flow 1:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 59.894 ms
Loss rate: 15.43%
-- Flow 2:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 64.163 ms
Loss rate: 27.60%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 65.677 ms
Loss rate: 17.21%

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

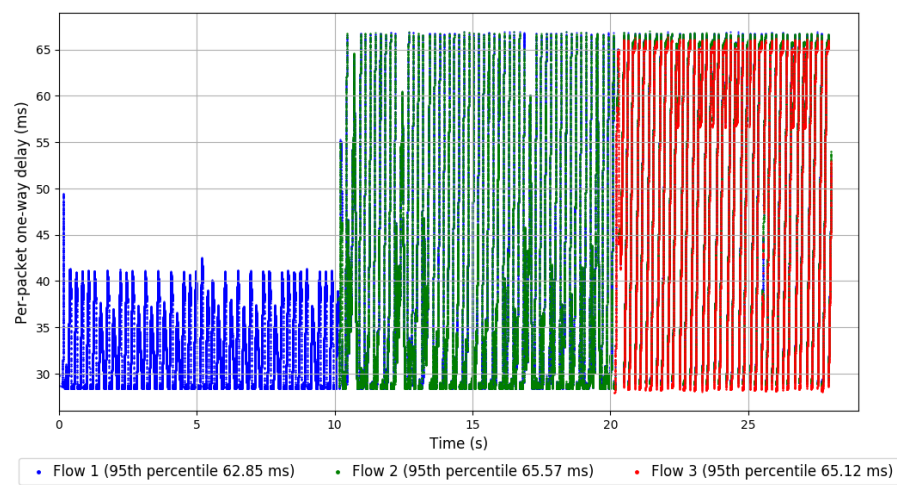
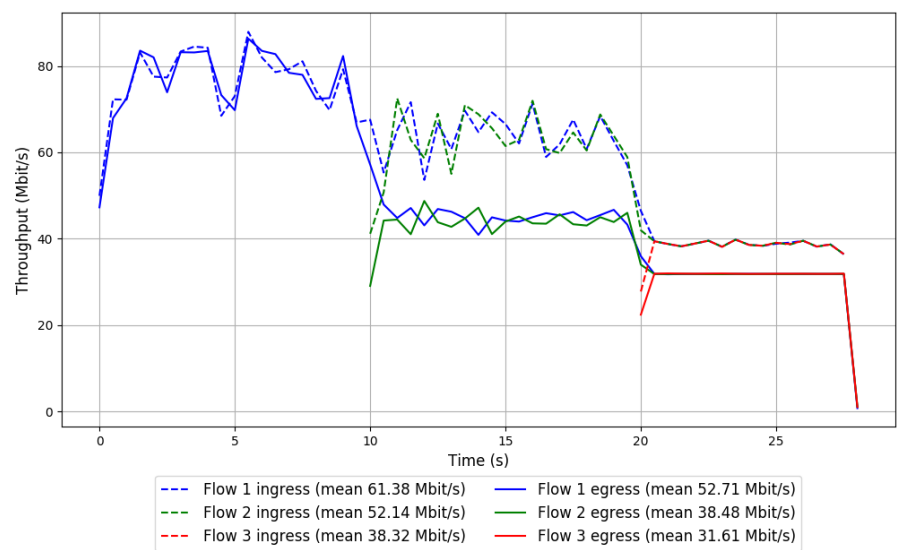


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 11:47:43
End at: 2017-11-16 11:48:13
Local clock offset: 0.286 ms
Remote clock offset: -2.462 ms

Below is generated by plot.py at 2017-11-16 14:20:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.36 Mbit/s
95th percentile per-packet one-way delay: 65.001 ms
Loss rate: 18.22%
-- Flow 1:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 62.849 ms
Loss rate: 14.06%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 65.570 ms
Loss rate: 26.11%
-- Flow 3:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 65.117 ms
Loss rate: 17.47%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 12:06:55

End at: 2017-11-16 12:07:25

Local clock offset: 0.273 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2017-11-16 14:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.92 Mbit/s

95th percentile per-packet one-way delay: 61.371 ms

Loss rate: 23.35%

-- Flow 1:

Average throughput: 54.07 Mbit/s

95th percentile per-packet one-way delay: 59.163 ms

Loss rate: 18.58%

-- Flow 2:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 30.58%

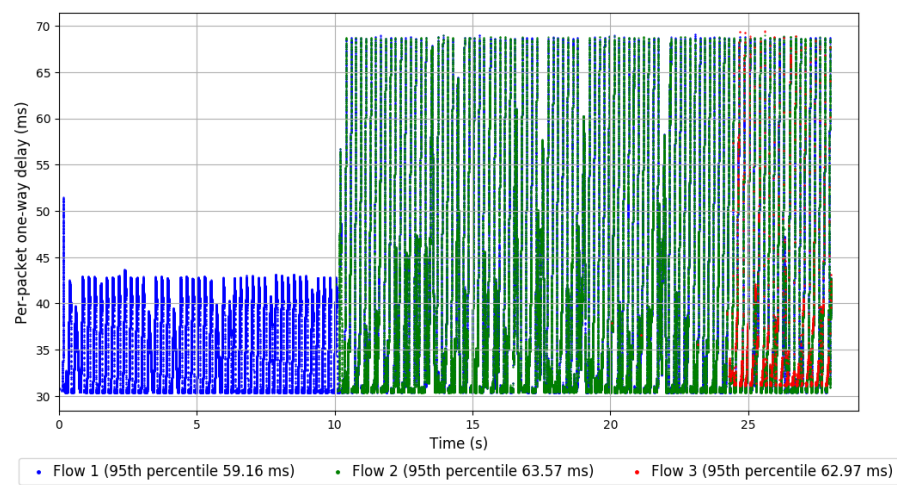
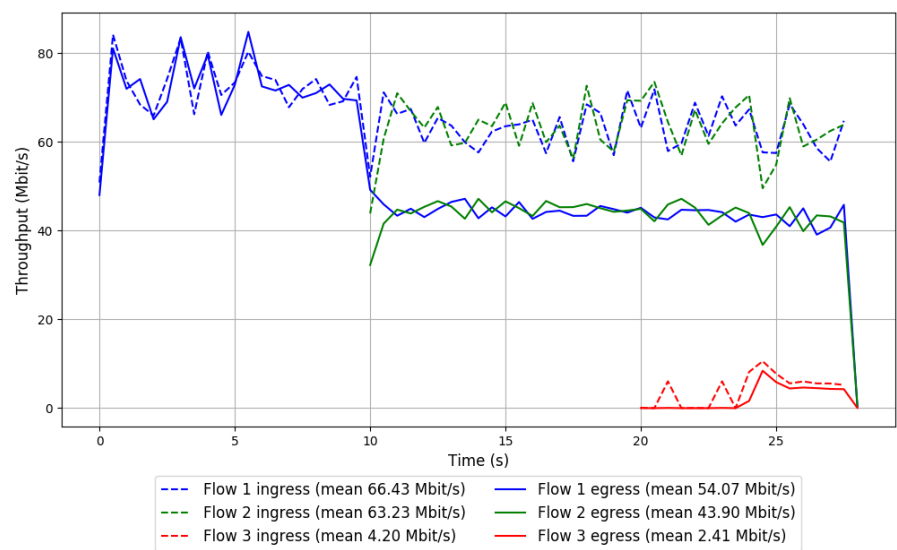
-- Flow 3:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 62.972 ms

Loss rate: 42.55%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 12:26:29

End at: 2017-11-16 12:26:59

Local clock offset: 0.079 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2017-11-16 14:20:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 67.020 ms

Loss rate: 18.14%

-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 63.972 ms

Loss rate: 13.76%

-- Flow 2:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 67.946 ms

Loss rate: 26.47%

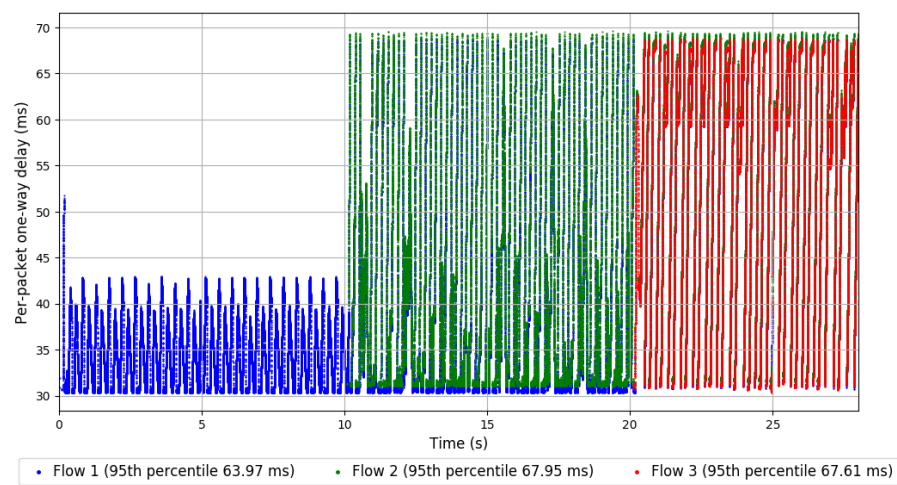
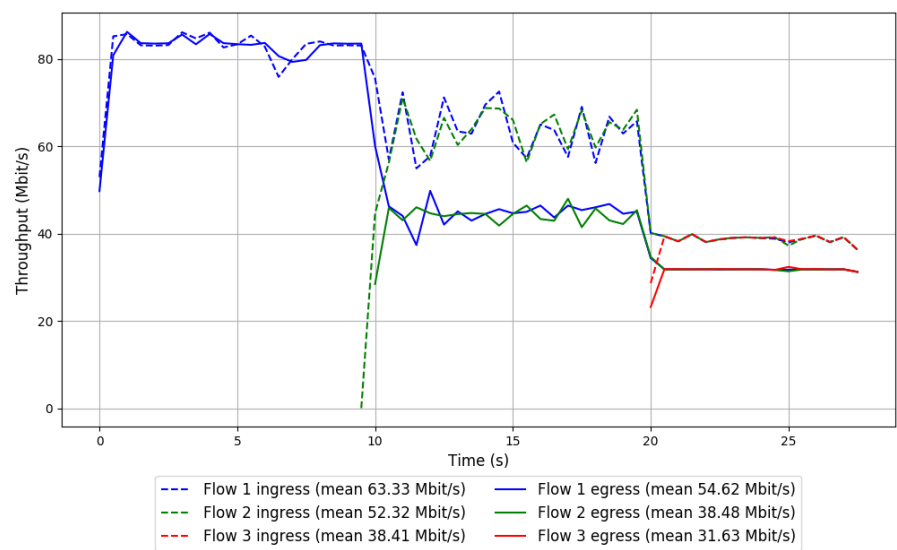
-- Flow 3:

Average throughput: 31.63 Mbit/s

95th percentile per-packet one-way delay: 67.606 ms

Loss rate: 17.87%

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



Run 8: Statistics of TaoVA-100x

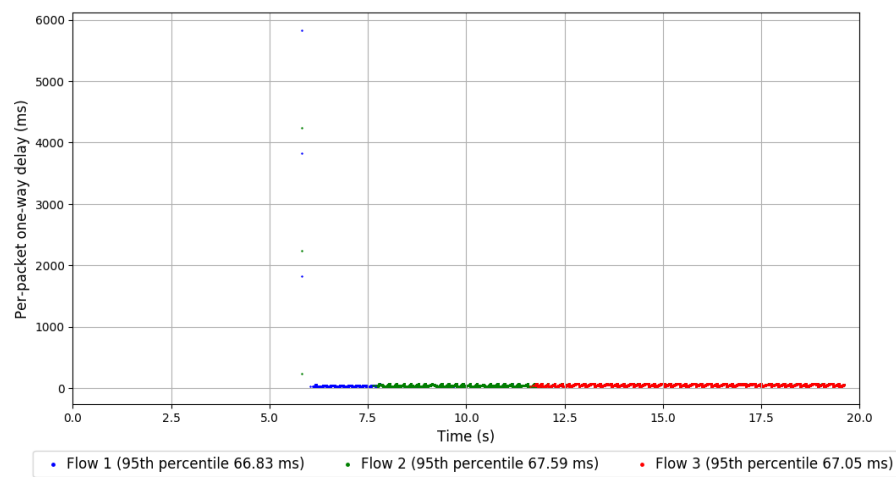
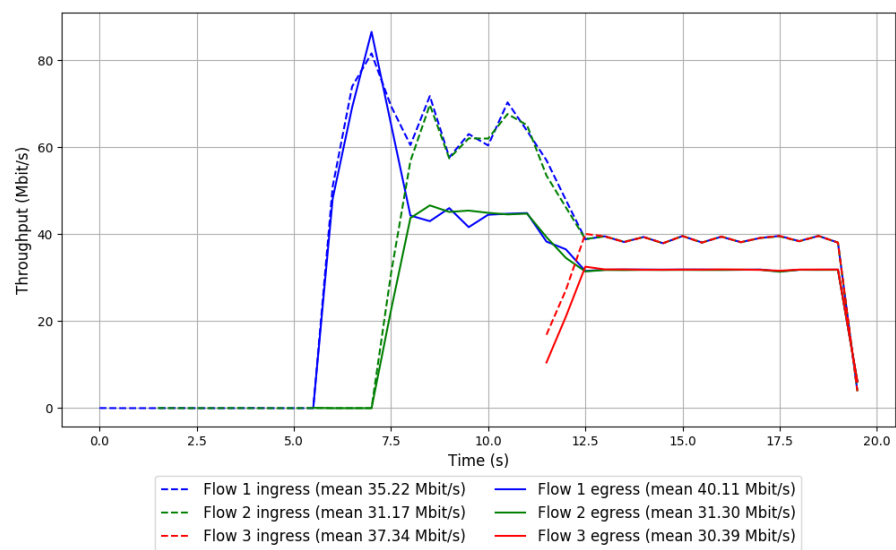
Start at: 2017-11-16 12:45:55

End at: 2017-11-16 12:46:25

Local clock offset: 0.11 ms

Remote clock offset: 0.165 ms

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 13:05:13

End at: 2017-11-16 13:05:43

Local clock offset: 0.063 ms

Remote clock offset: 0.728 ms

Below is generated by plot.py at 2017-11-16 14:21:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 67.307 ms

Loss rate: 18.18%

-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 65.170 ms

Loss rate: 14.14%

-- Flow 2:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 67.334 ms

Loss rate: 25.51%

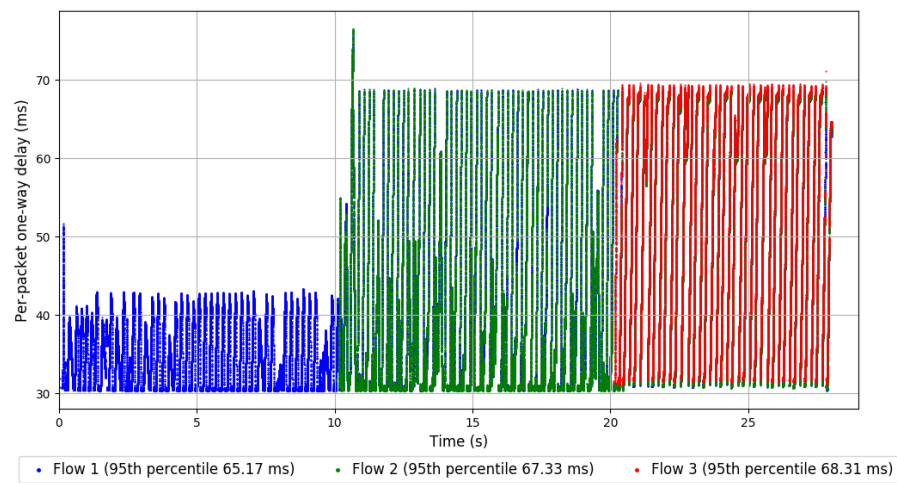
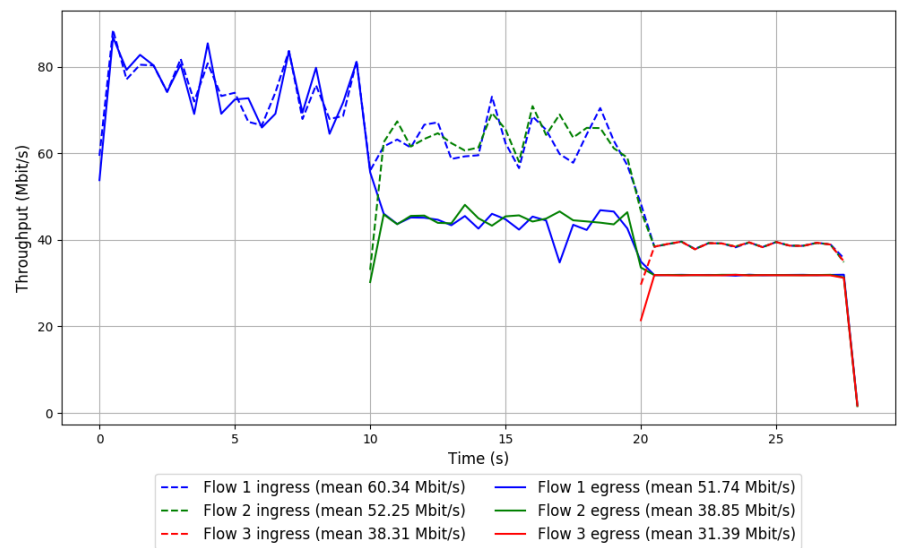
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 68.309 ms

Loss rate: 17.95%

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



Run 10: Statistics of TaoVA-100x

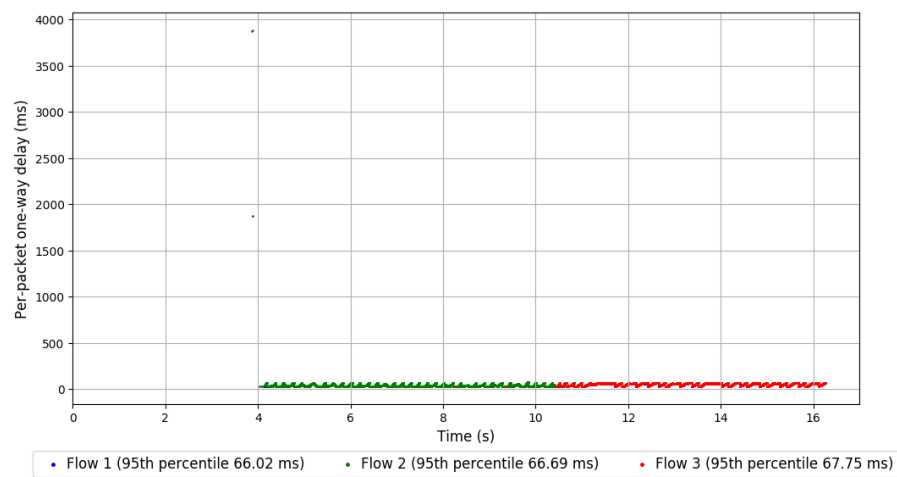
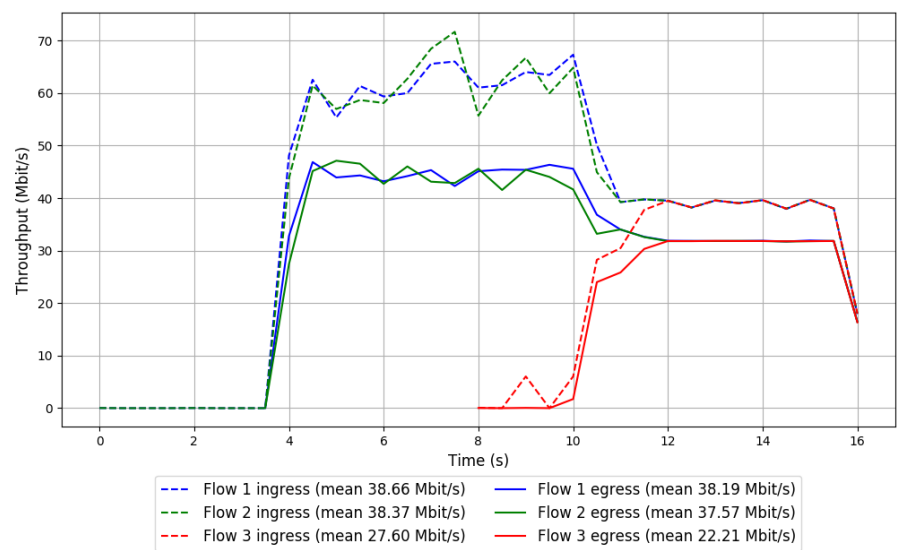
Start at: 2017-11-16 13:24:43

End at: 2017-11-16 13:25:13

Local clock offset: 0.168 ms

Remote clock offset: 0.695 ms

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

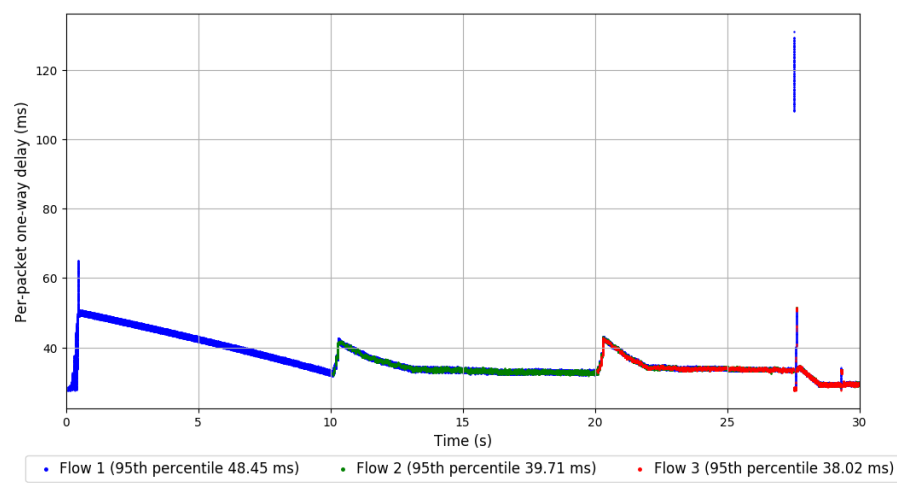
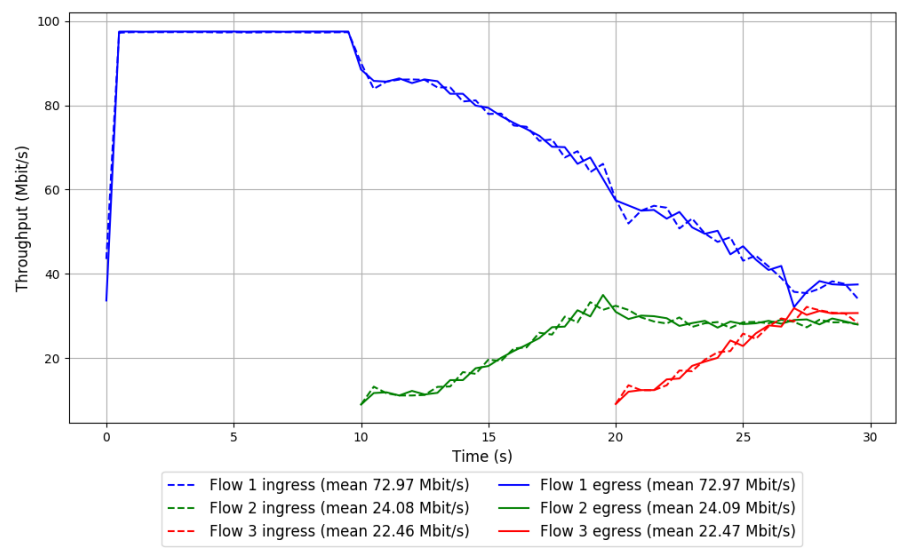


Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 10:43:18
End at: 2017-11-16 10:43:48
Local clock offset: 0.915 ms
Remote clock offset: -1.814 ms

Below is generated by plot.py at 2017-11-16 14:21:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 47.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 48.450 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 39.709 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.47 Mbit/s
95th percentile per-packet one-way delay: 38.016 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

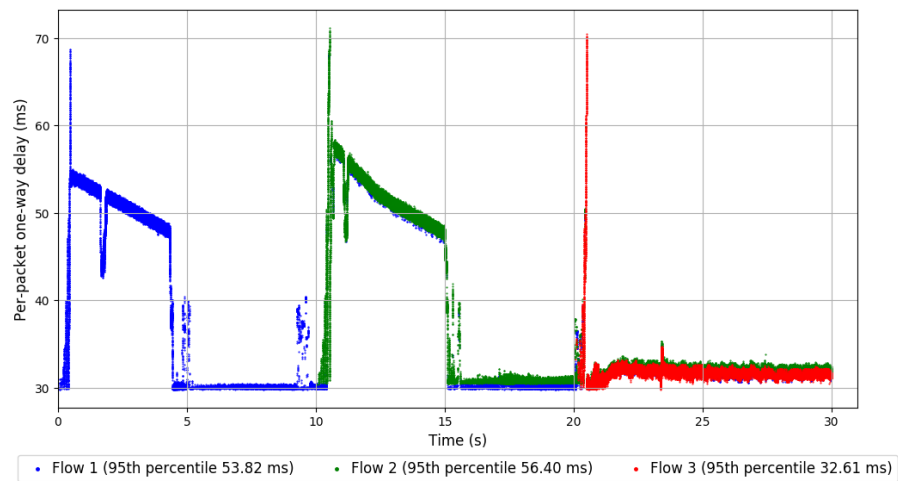
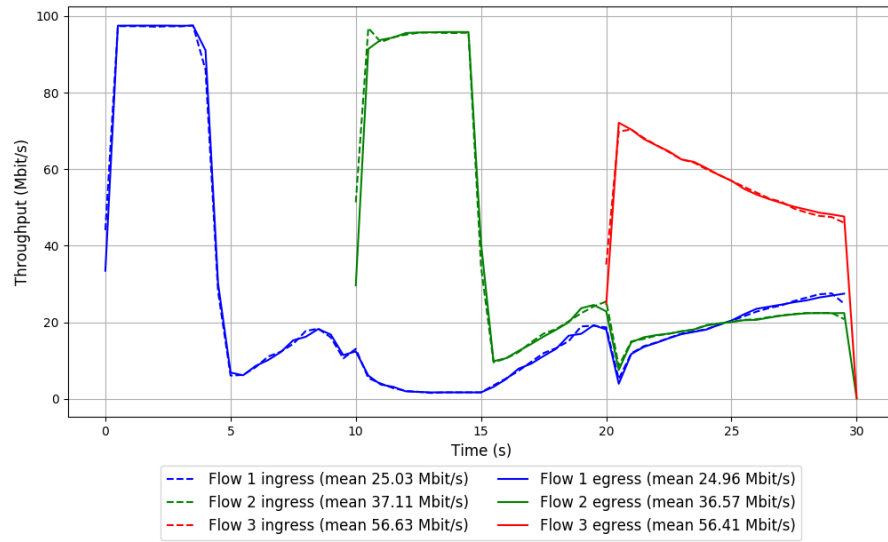


Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 11:02:23
End at: 2017-11-16 11:02:53
Local clock offset: 0.661 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2017-11-16 14:21:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.02 Mbit/s
95th percentile per-packet one-way delay: 54.391 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 53.818 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 36.57 Mbit/s
95th percentile per-packet one-way delay: 56.396 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 32.606 ms
Loss rate: 0.41%

Run 2: Report of TCP Vegas — Data Link

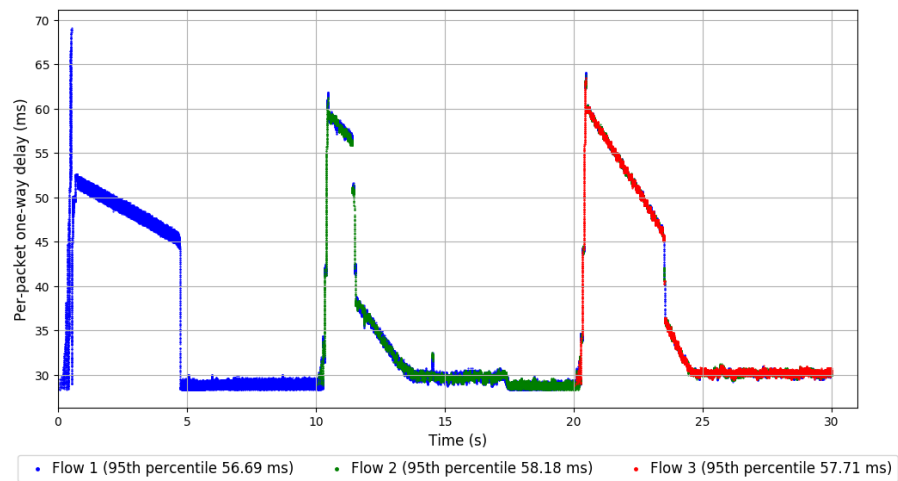
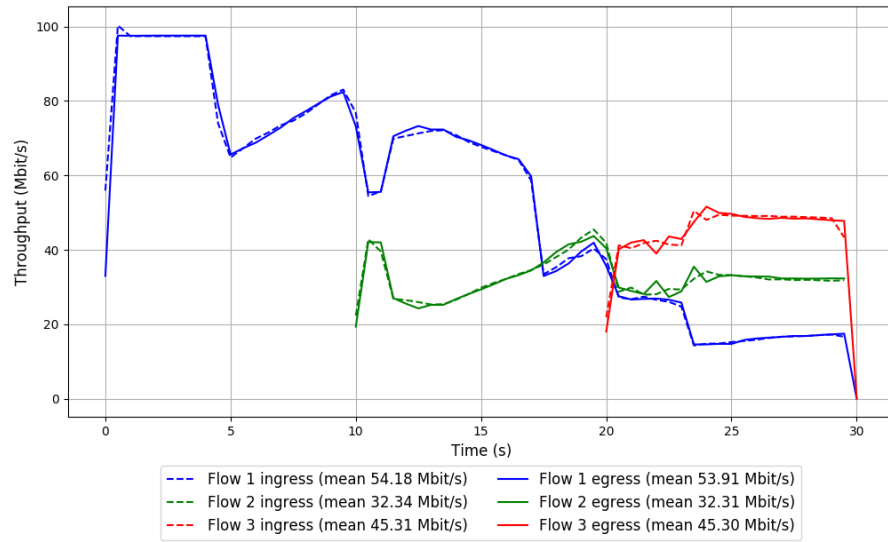


Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 11:21:41
End at: 2017-11-16 11:22:11
Local clock offset: 0.509 ms
Remote clock offset: -2.573 ms

Below is generated by plot.py at 2017-11-16 14:21:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 57.394 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 56.685 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 58.182 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 45.30 Mbit/s
95th percentile per-packet one-way delay: 57.708 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

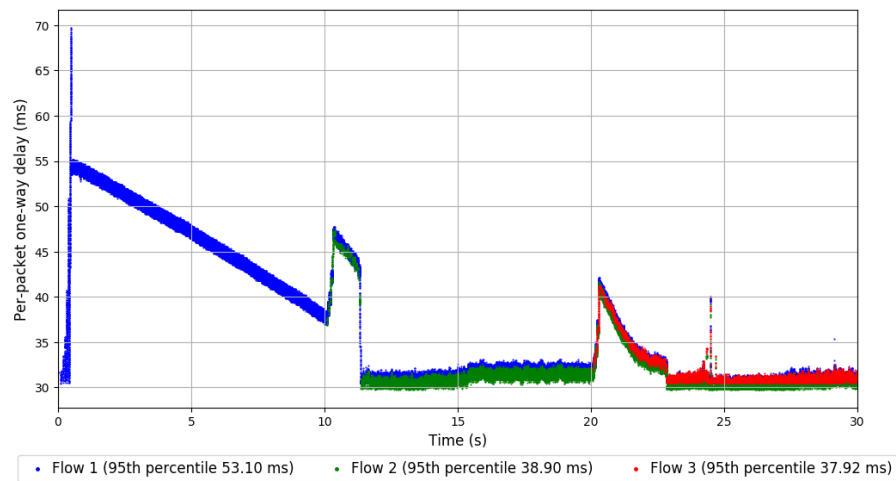
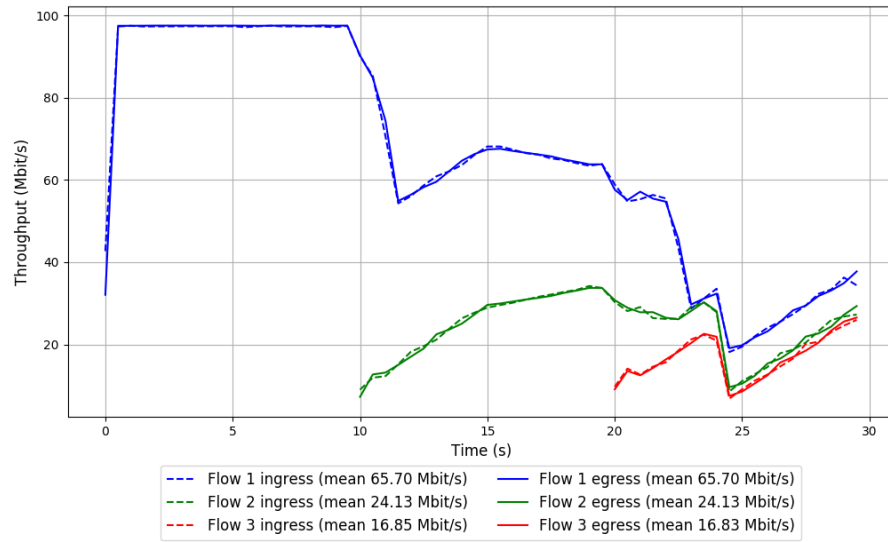


Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 11:40:51
End at: 2017-11-16 11:41:21
Local clock offset: 0.341 ms
Remote clock offset: -0.433 ms

Below is generated by plot.py at 2017-11-16 14:21:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.34 Mbit/s
95th percentile per-packet one-way delay: 52.559 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 65.70 Mbit/s
95th percentile per-packet one-way delay: 53.098 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 38.899 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 37.922 ms
Loss rate: 0.11%

Run 4: Report of TCP Vegas — Data Link

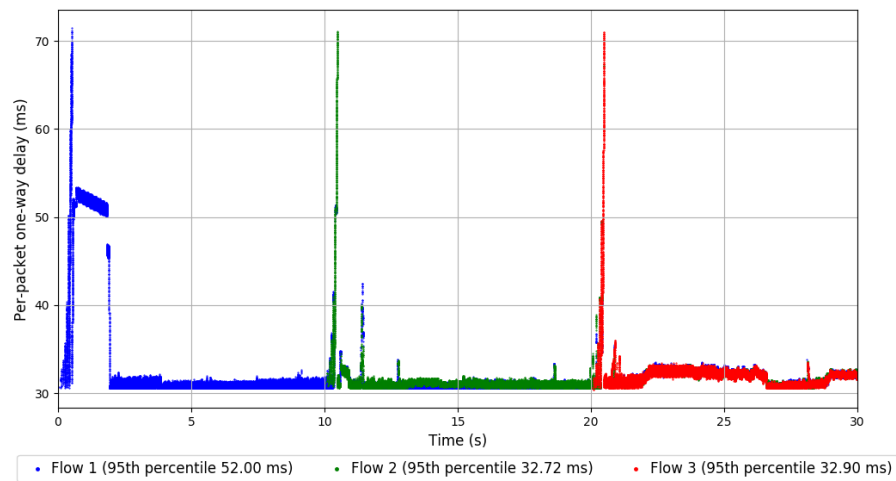
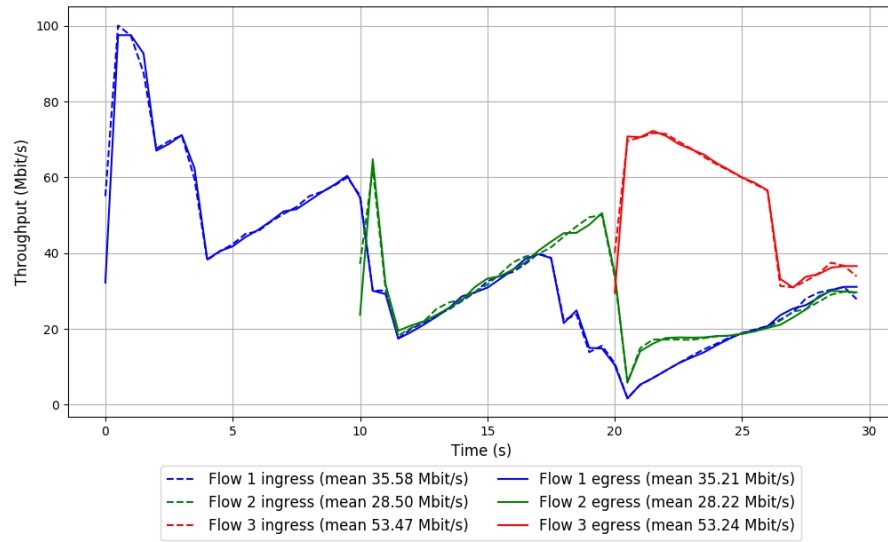


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 11:59:55
End at: 2017-11-16 12:00:25
Local clock offset: 0.196 ms
Remote clock offset: -0.266 ms

Below is generated by plot.py at 2017-11-16 14:21:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 51.305 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 51.997 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 32.716 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 53.24 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.42%

Run 5: Report of TCP Vegas — Data Link

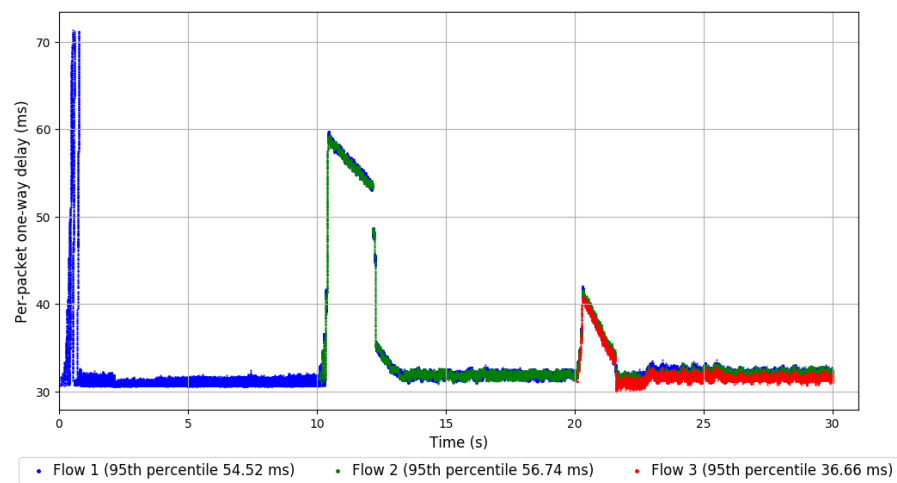
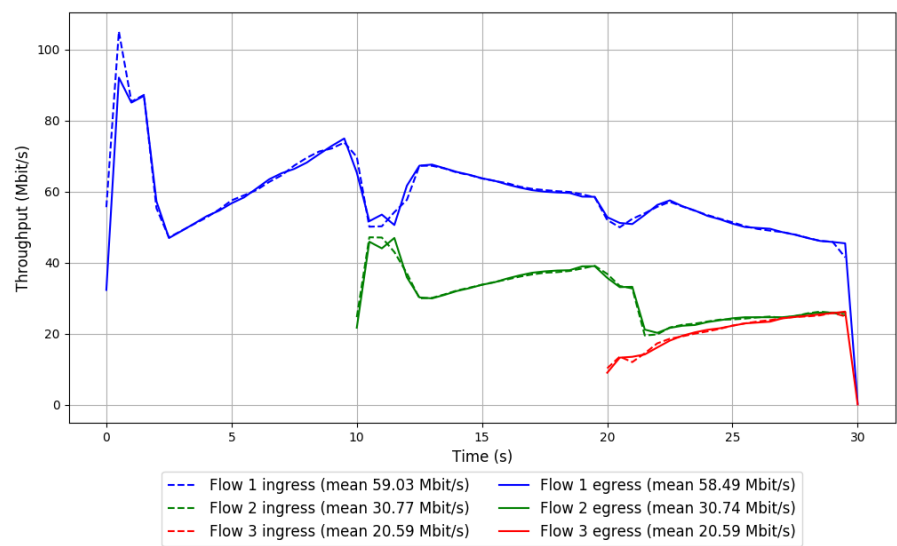


Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 12:19:31
End at: 2017-11-16 12:20:01
Local clock offset: 0.12 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2017-11-16 14:21:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.79 Mbit/s
95th percentile per-packet one-way delay: 55.267 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 58.49 Mbit/s
95th percentile per-packet one-way delay: 54.524 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 56.739 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 36.655 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

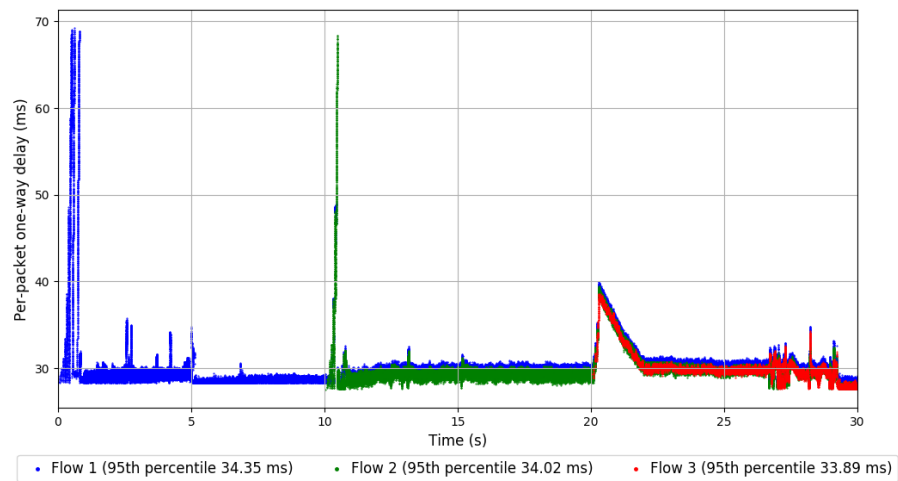
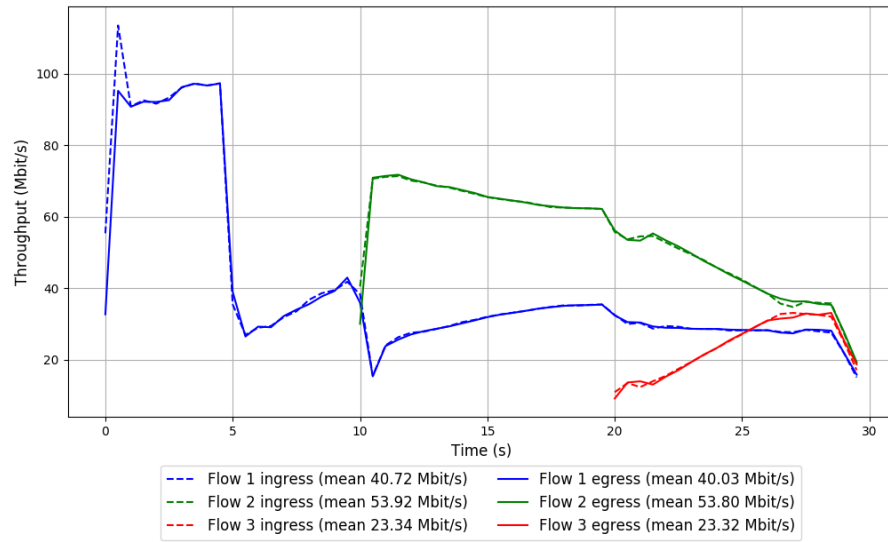


Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 12:38:50
End at: 2017-11-16 12:39:20
Local clock offset: 0.145 ms
Remote clock offset: -1.977 ms

Below is generated by plot.py at 2017-11-16 14:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.59 Mbit/s
95th percentile per-packet one-way delay: 34.120 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 40.03 Mbit/s
95th percentile per-packet one-way delay: 34.348 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 34.020 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 33.889 ms
Loss rate: 0.09%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2017-11-16 12:58:46

Local clock offset: 0.151 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2017-11-16 14:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.25 Mbit/s

95th percentile per-packet one-way delay: 38.943 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 39.450 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 37.035 ms

Loss rate: 0.00%

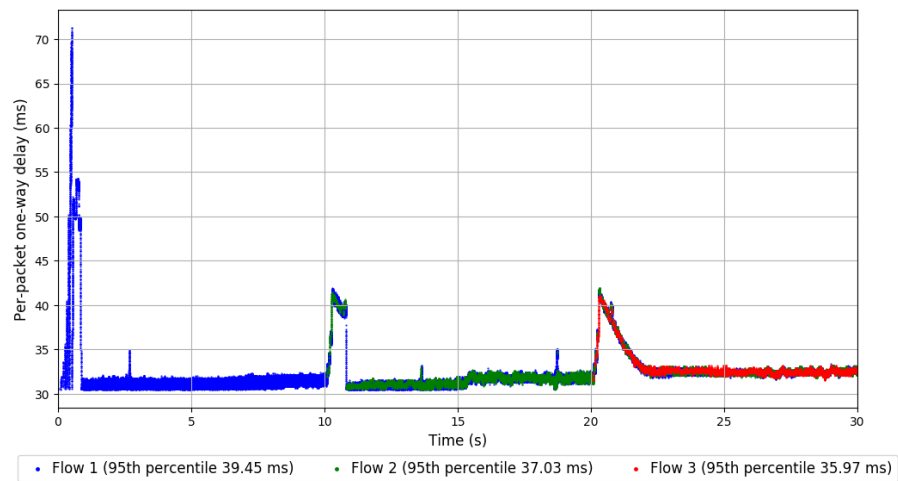
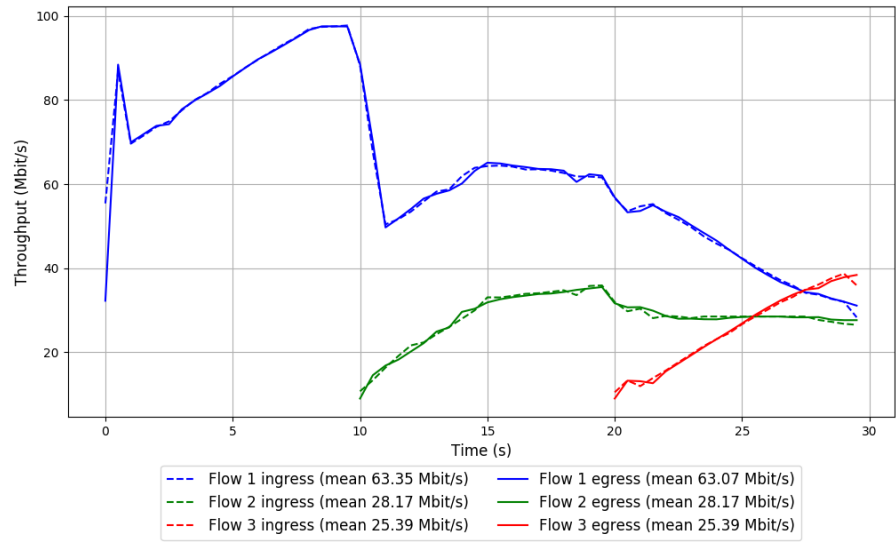
-- Flow 3:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 35.972 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

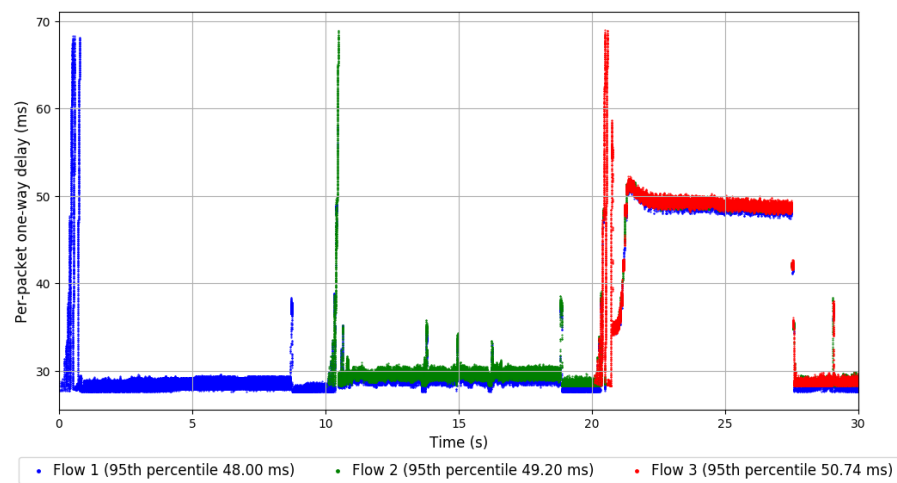
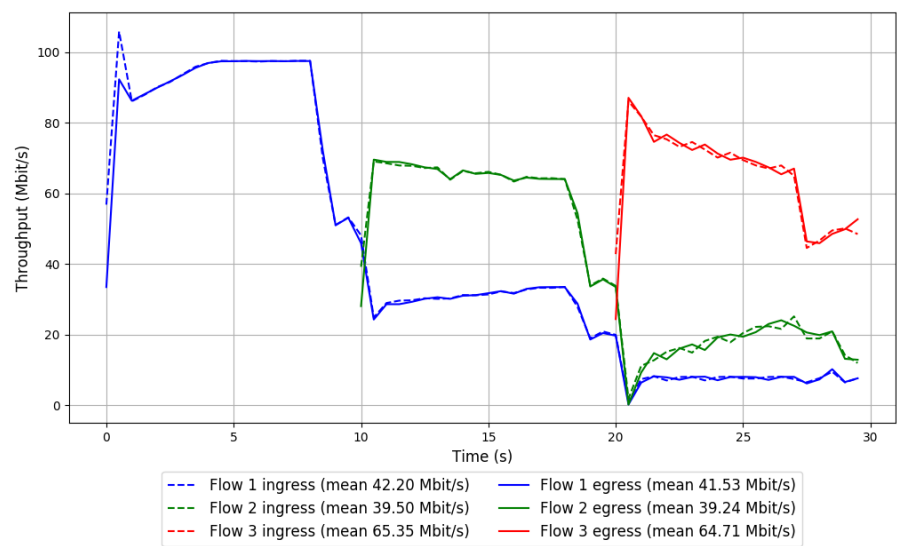


Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 13:17:39
End at: 2017-11-16 13:18:09
Local clock offset: 0.191 ms
Remote clock offset: -1.625 ms

Below is generated by plot.py at 2017-11-16 14:22:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.11 Mbit/s
95th percentile per-packet one-way delay: 49.654 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 48.004 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 49.199 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 50.738 ms
Loss rate: 0.99%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 13:37:11

End at: 2017-11-16 13:37:41

Local clock offset: 0.176 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2017-11-16 14:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 51.155 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 51.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.27 Mbit/s

95th percentile per-packet one-way delay: 38.467 ms

Loss rate: 0.03%

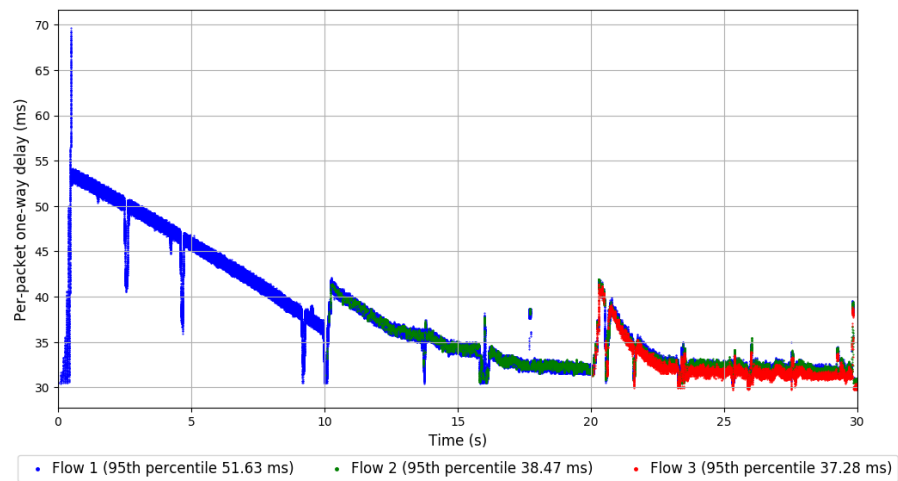
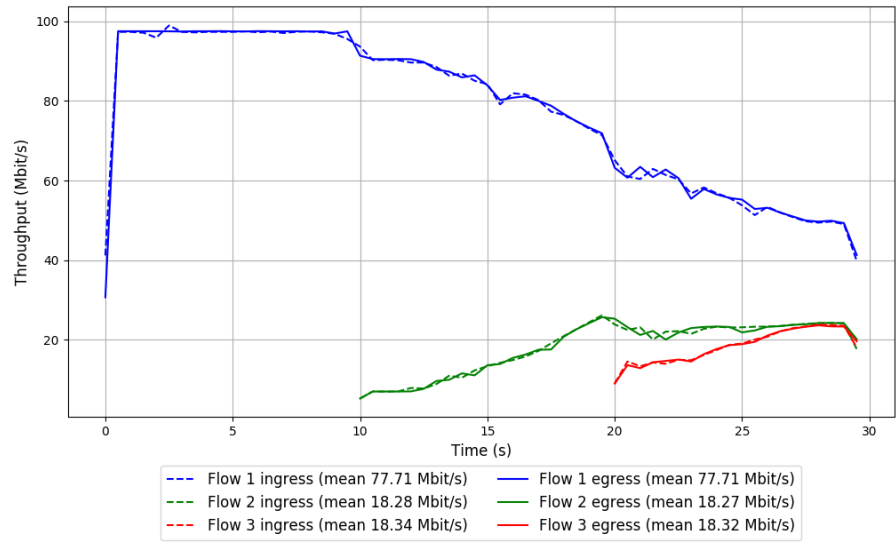
-- Flow 3:

Average throughput: 18.32 Mbit/s

95th percentile per-packet one-way delay: 37.283 ms

Loss rate: 0.10%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 10:39:16

End at: 2017-11-16 10:39:46

Local clock offset: 0.875 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2017-11-16 14:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 68.706 ms

Loss rate: 55.58%

-- Flow 1:

Average throughput: 44.06 Mbit/s

95th percentile per-packet one-way delay: 69.082 ms

Loss rate: 57.57%

-- Flow 2:

Average throughput: 5.77 Mbit/s

95th percentile per-packet one-way delay: 65.857 ms

Loss rate: 39.54%

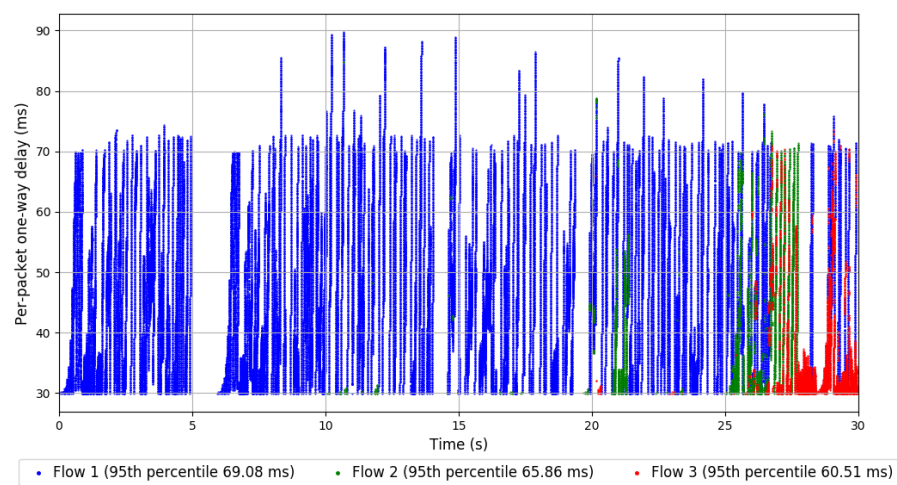
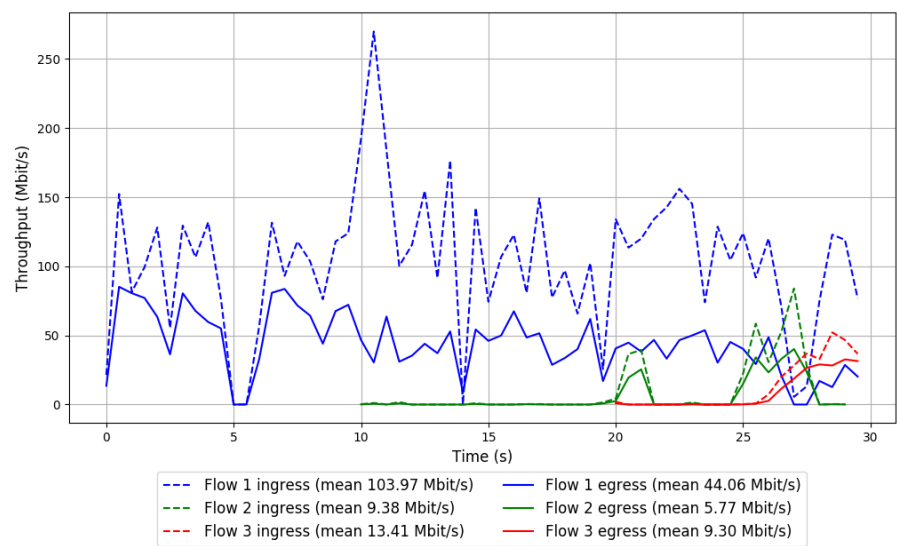
-- Flow 3:

Average throughput: 9.30 Mbit/s

95th percentile per-packet one-way delay: 60.510 ms

Loss rate: 30.90%

Run 1: Report of Verus — Data Link

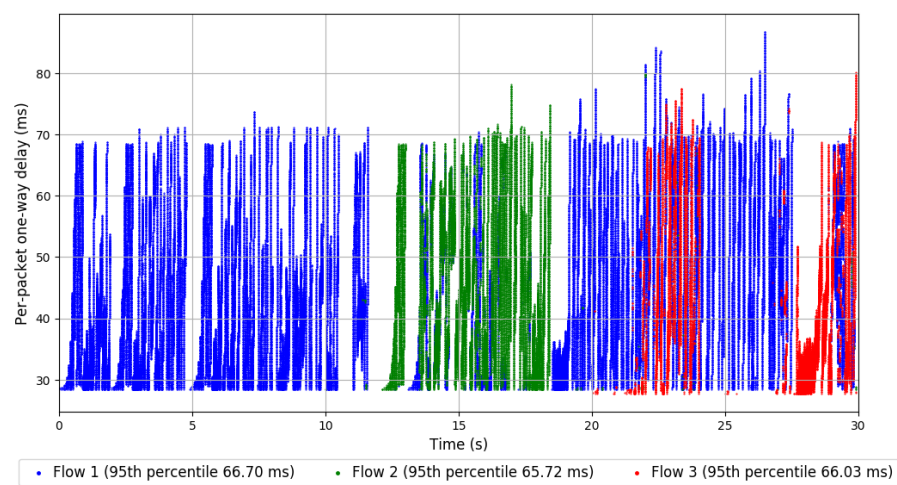
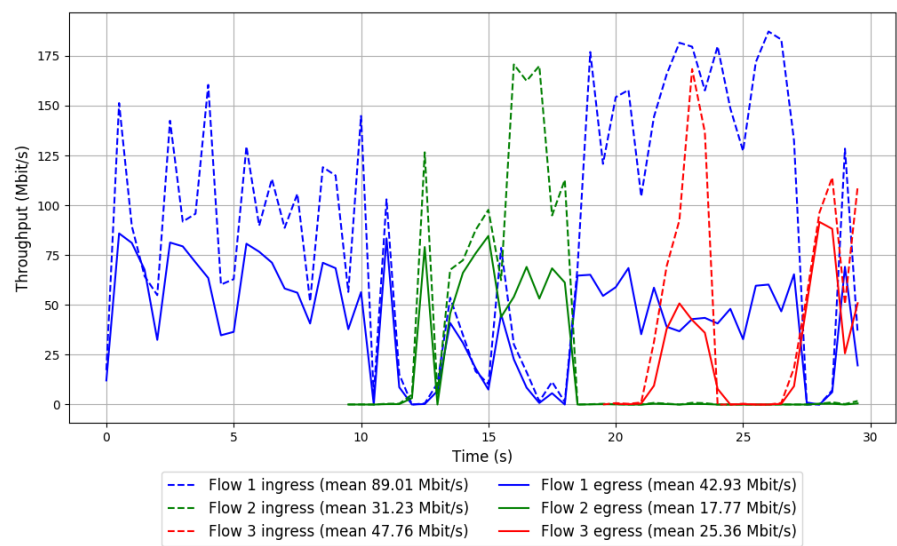


Run 2: Statistics of Verus

Start at: 2017-11-16 10:58:22
End at: 2017-11-16 10:58:52
Local clock offset: 0.695 ms
Remote clock offset: -2.134 ms

Below is generated by plot.py at 2017-11-16 14:22:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.08 Mbit/s
95th percentile per-packet one-way delay: 66.455 ms
Loss rate: 49.71%
-- Flow 1:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 66.701 ms
Loss rate: 51.76%
-- Flow 2:
Average throughput: 17.77 Mbit/s
95th percentile per-packet one-way delay: 65.718 ms
Loss rate: 43.10%
-- Flow 3:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 66.026 ms
Loss rate: 46.90%

Run 2: Report of Verus — Data Link

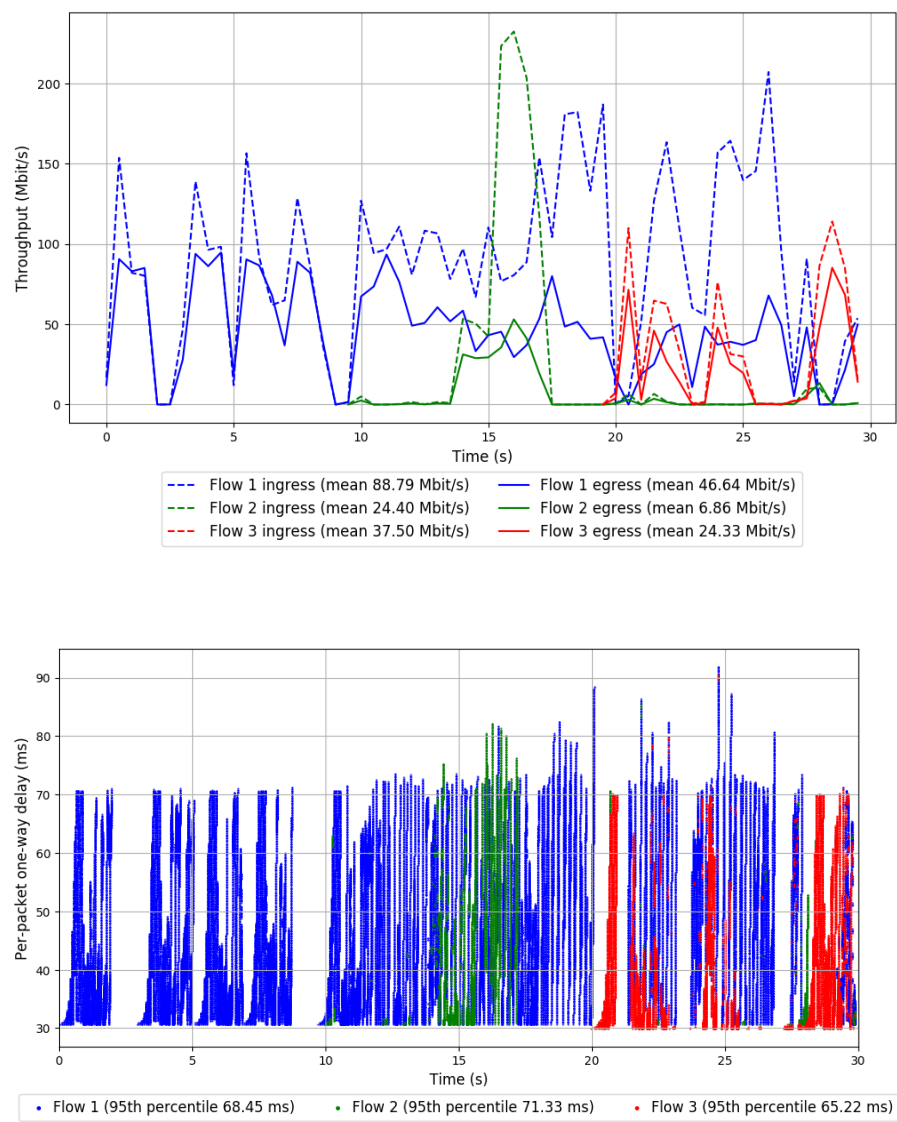


Run 3: Statistics of Verus

Start at: 2017-11-16 11:17:39
End at: 2017-11-16 11:18:09
Local clock offset: 0.471 ms
Remote clock offset: -0.317 ms

Below is generated by plot.py at 2017-11-16 14:22:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 68.391 ms
Loss rate: 49.54%
-- Flow 1:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 68.450 ms
Loss rate: 47.46%
-- Flow 2:
Average throughput: 6.86 Mbit/s
95th percentile per-packet one-way delay: 71.335 ms
Loss rate: 71.87%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 65.215 ms
Loss rate: 35.11%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 11:36:48

End at: 2017-11-16 11:37:18

Local clock offset: 0.37 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2017-11-16 14:22:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 67.039 ms

Loss rate: 40.16%

-- Flow 1:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 66.388 ms

Loss rate: 28.37%

-- Flow 2:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 68.197 ms

Loss rate: 51.97%

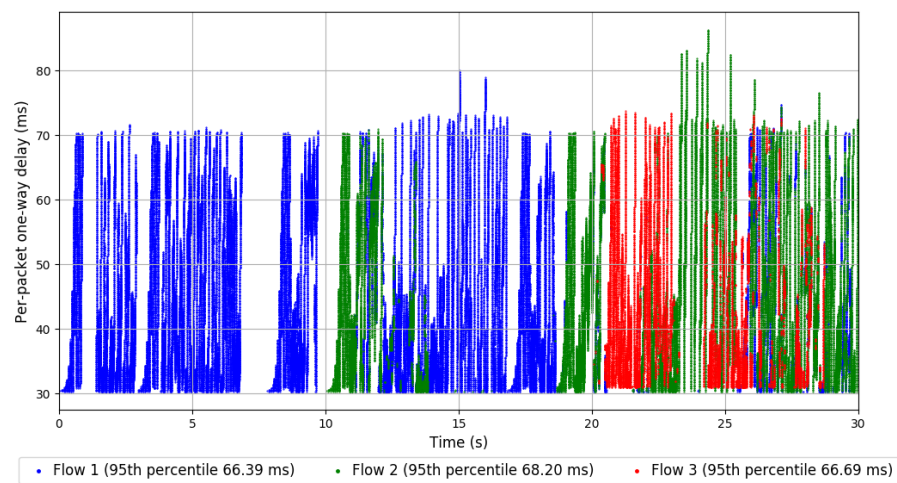
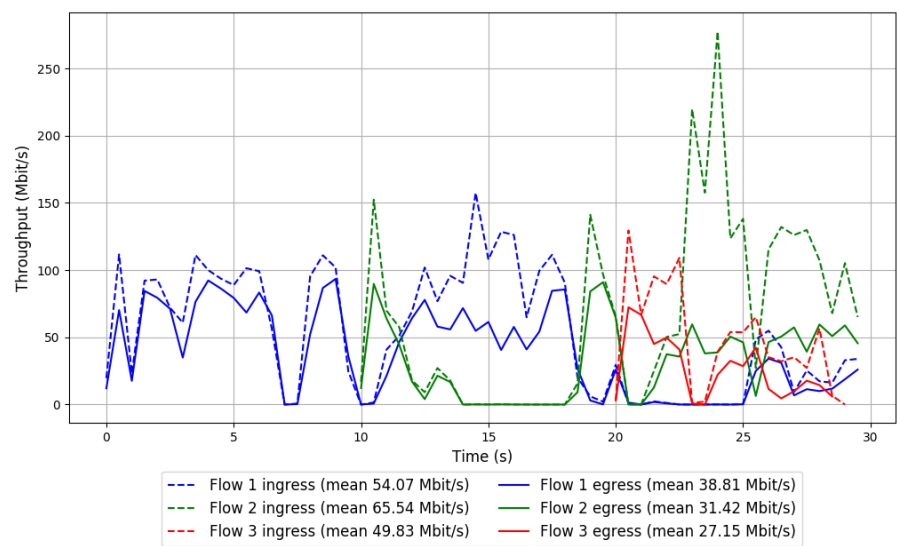
-- Flow 3:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 66.692 ms

Loss rate: 48.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 11:55:54

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

Local clock offset: 0.216 ms

Remote clock offset: -0.27 ms

Below is generated by plot.py at 2017-11-16 14:23:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.87 Mbit/s

95th percentile per-packet one-way delay: 67.758 ms

Loss rate: 44.49%

-- Flow 1:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 67.745 ms

Loss rate: 42.41%

-- Flow 2:

Average throughput: 24.18 Mbit/s

95th percentile per-packet one-way delay: 68.842 ms

Loss rate: 53.99%

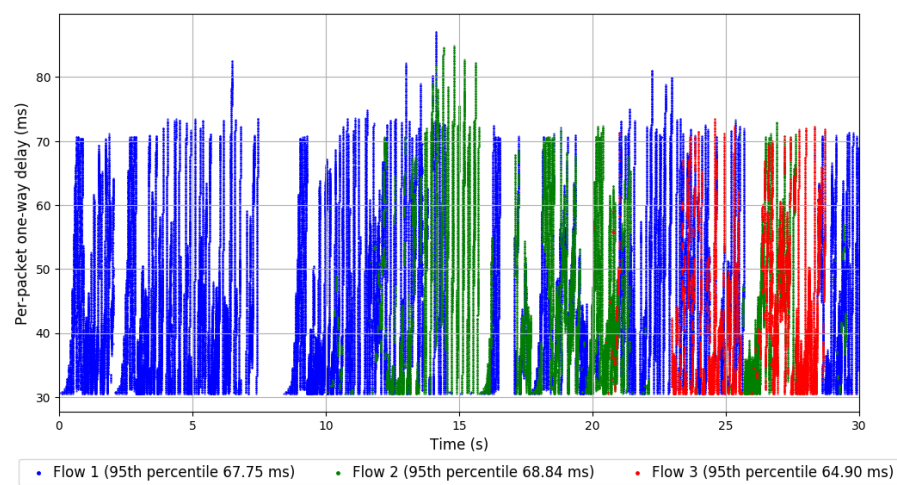
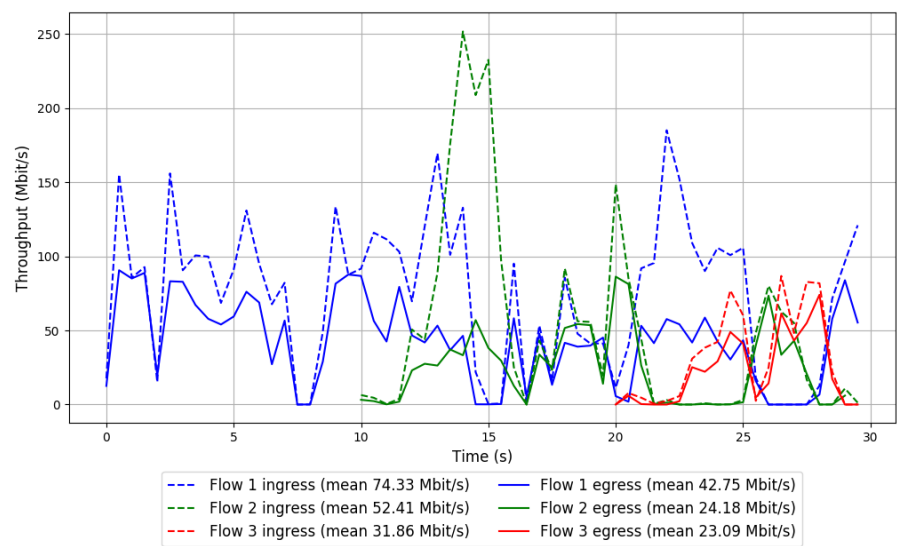
-- Flow 3:

Average throughput: 23.09 Mbit/s

95th percentile per-packet one-way delay: 64.901 ms

Loss rate: 28.11%

Run 5: Report of Verus — Data Link

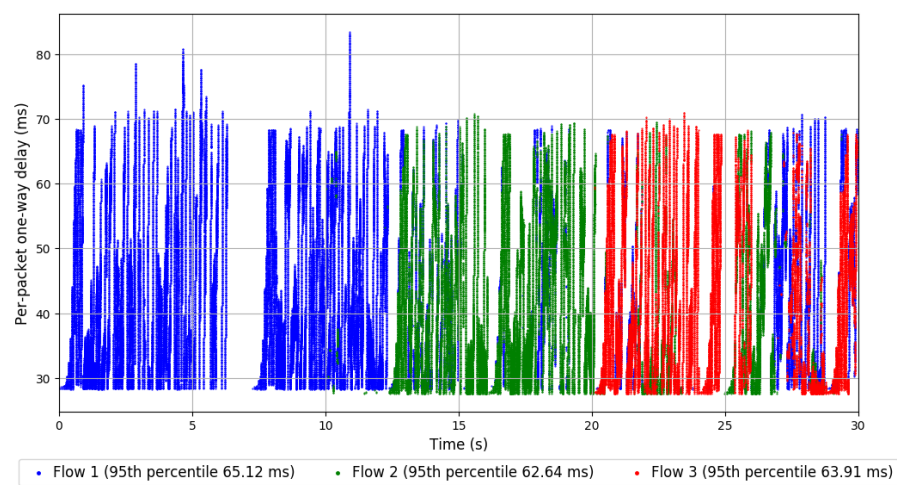
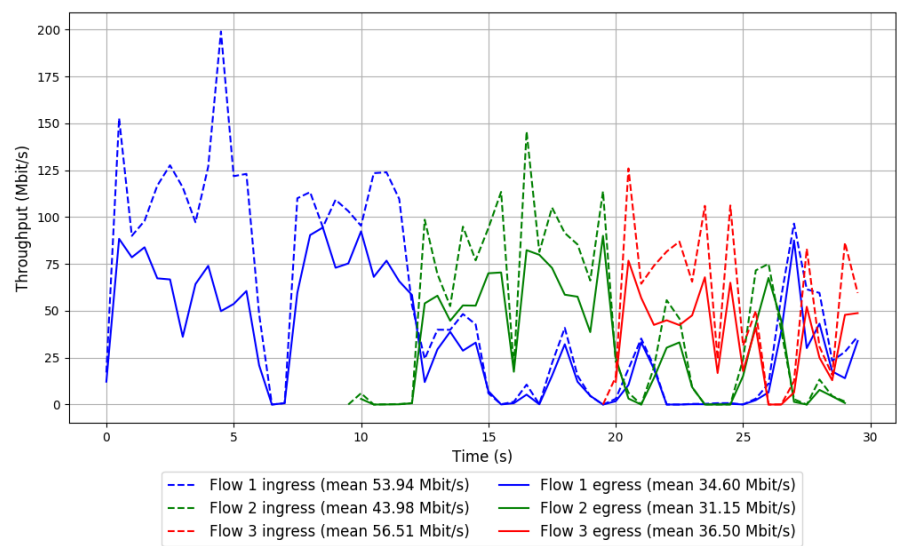


Run 6: Statistics of Verus

Start at: 2017-11-16 12:15:24
End at: 2017-11-16 12:15:54
Local clock offset: 0.242 ms
Remote clock offset: -2.336 ms

Below is generated by plot.py at 2017-11-16 14:23:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.83 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 33.90%
-- Flow 1:
Average throughput: 34.60 Mbit/s
95th percentile per-packet one-way delay: 65.121 ms
Loss rate: 35.78%
-- Flow 2:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 62.640 ms
Loss rate: 29.49%
-- Flow 3:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 63.905 ms
Loss rate: 35.23%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 12:34:46

End at: 2017-11-16 12:35:16

Local clock offset: 0.124 ms

Remote clock offset: 0.211 ms

Below is generated by plot.py at 2017-11-16 14:23:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 66.184 ms

Loss rate: 37.73%

-- Flow 1:

Average throughput: 46.32 Mbit/s

95th percentile per-packet one-way delay: 66.643 ms

Loss rate: 42.30%

-- Flow 2:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 65.463 ms

Loss rate: 23.28%

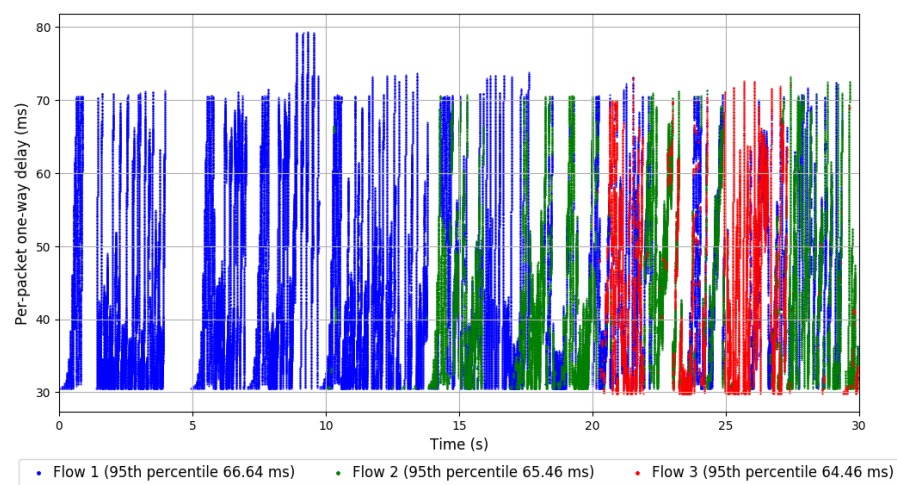
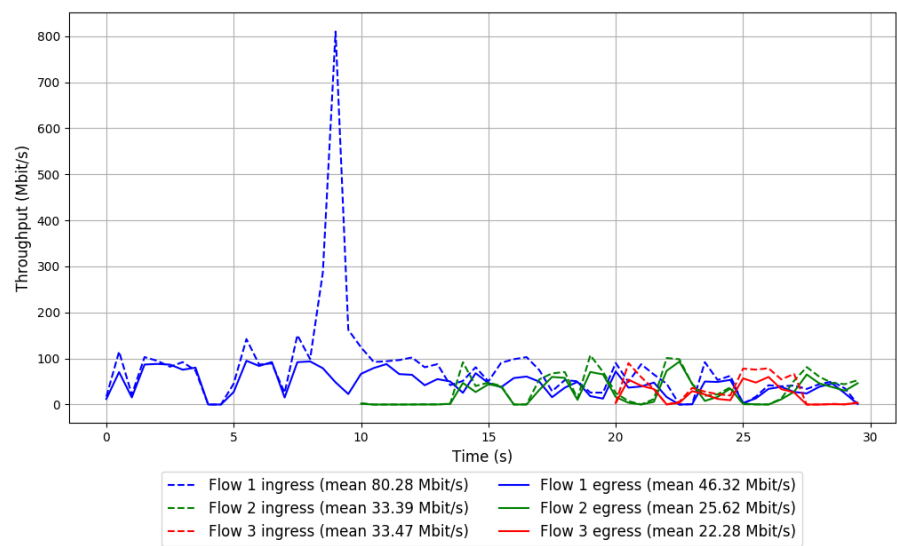
-- Flow 3:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 64.458 ms

Loss rate: 33.57%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 12:54:15

End at: 2017-11-16 12:54:45

Local clock offset: 0.139 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2017-11-16 14:23:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 67.930 ms

Loss rate: 46.30%

-- Flow 1:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 68.352 ms

Loss rate: 47.18%

-- Flow 2:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 66.587 ms

Loss rate: 51.58%

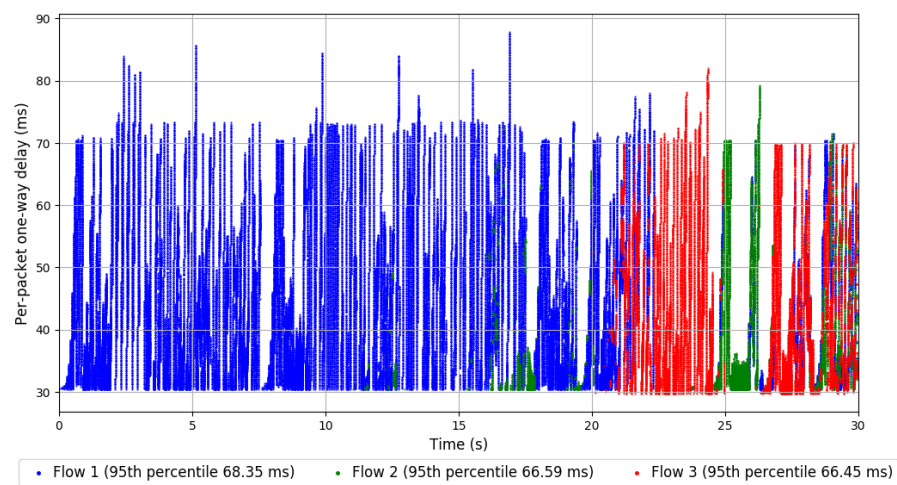
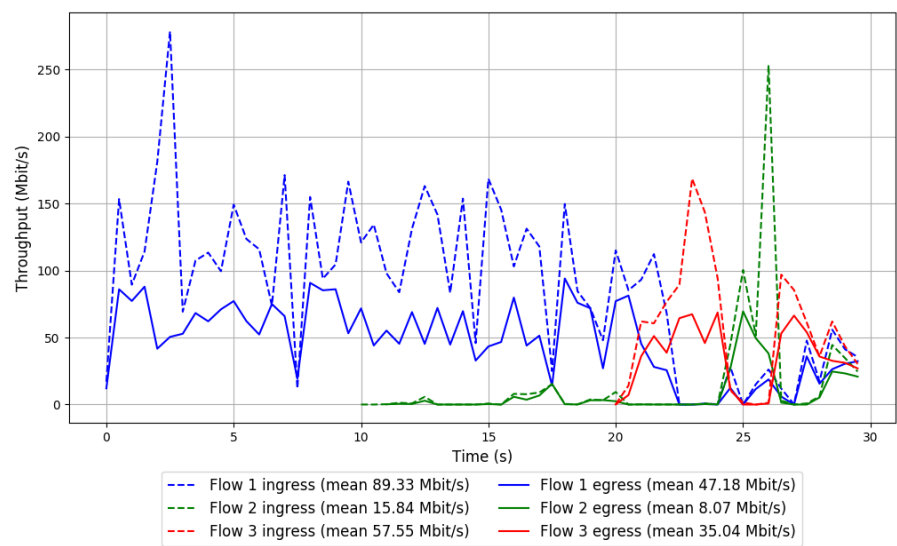
-- Flow 3:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 66.454 ms

Loss rate: 39.24%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 13:13:34

End at: 2017-11-16 13:14:04

Local clock offset: 0.095 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2017-11-16 14:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 65.825 ms

Loss rate: 25.32%

-- Flow 1:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 65.113 ms

Loss rate: 20.29%

-- Flow 2:

Average throughput: 39.81 Mbit/s

95th percentile per-packet one-way delay: 66.917 ms

Loss rate: 31.77%

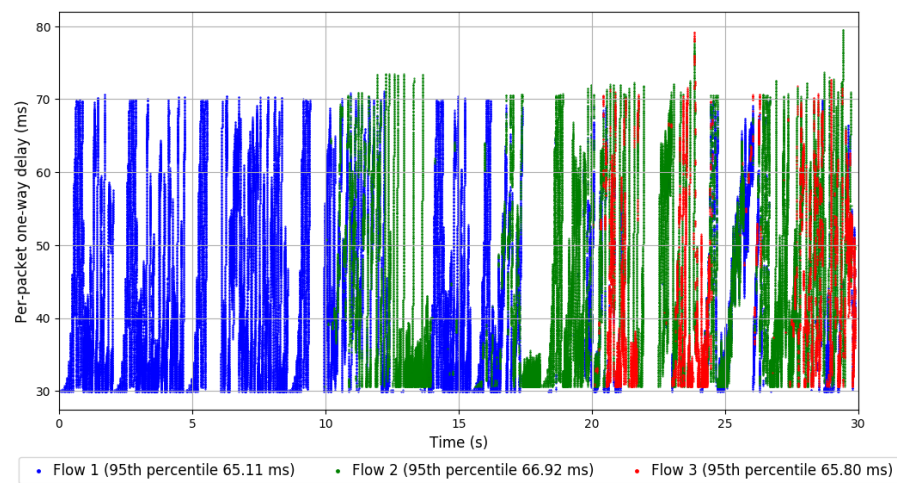
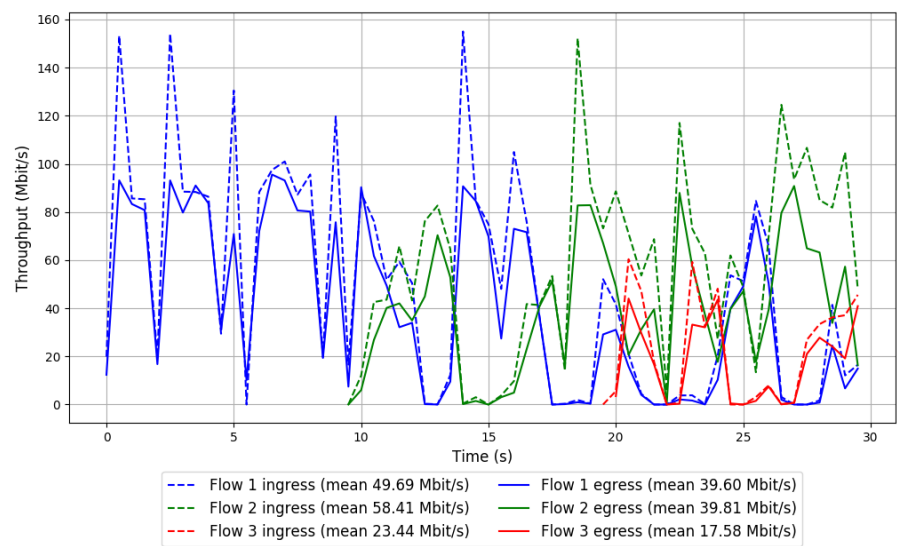
-- Flow 3:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 65.802 ms

Loss rate: 25.13%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 13:33:04

End at: 2017-11-16 13:33:34

Local clock offset: 0.082 ms

Remote clock offset: 0.804 ms

Below is generated by plot.py at 2017-11-16 14:24:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.63 Mbit/s

95th percentile per-packet one-way delay: 67.752 ms

Loss rate: 43.48%

-- Flow 1:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 66.827 ms

Loss rate: 31.29%

-- Flow 2:

Average throughput: 25.65 Mbit/s

95th percentile per-packet one-way delay: 70.105 ms

Loss rate: 62.09%

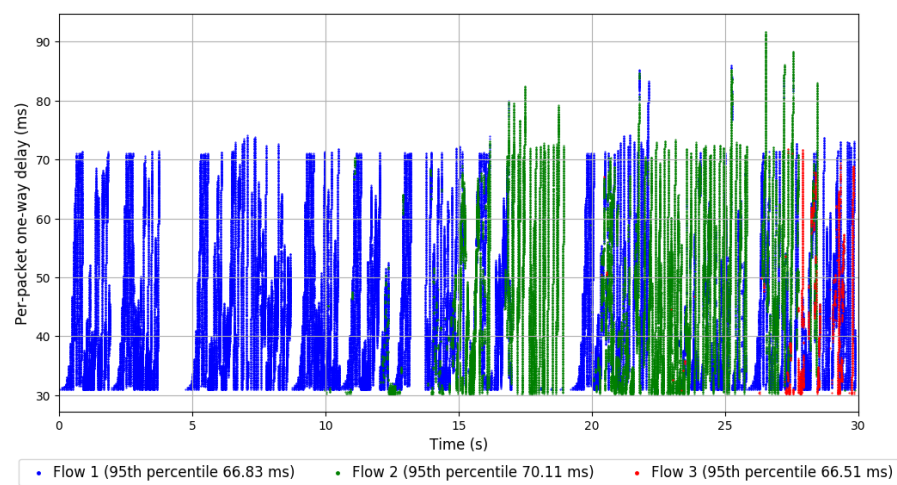
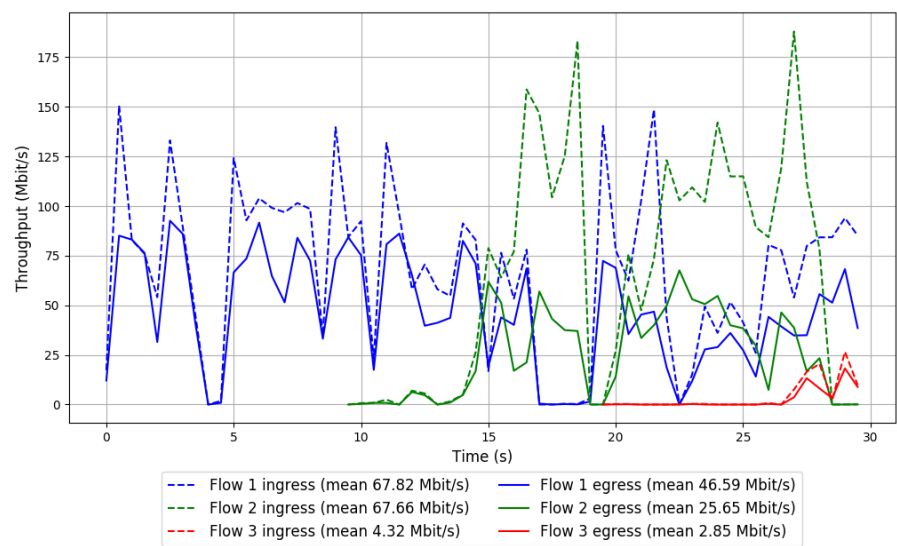
-- Flow 3:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 66.506 ms

Loss rate: 34.07%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-16 10:45:58

End at: 2017-11-16 10:46:28

Local clock offset: 0.894 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2017-11-16 14:24:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 35.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 34.324 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 35.849 ms

Loss rate: 0.00%

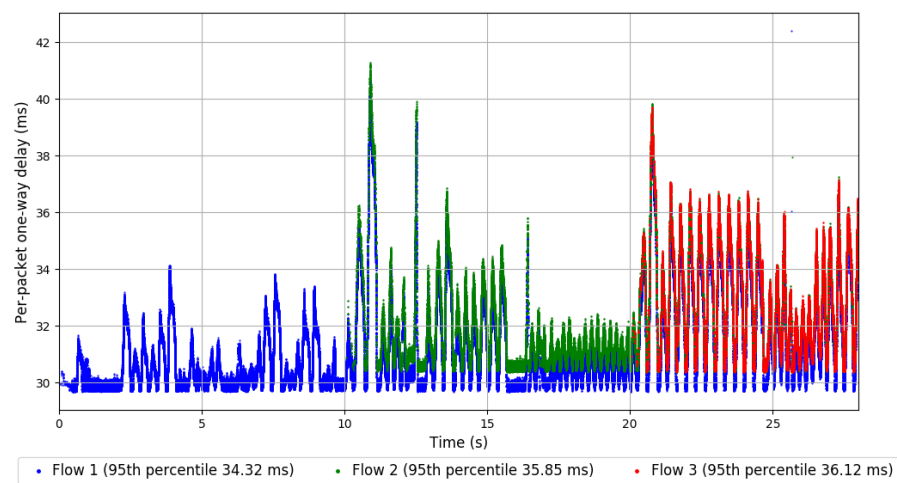
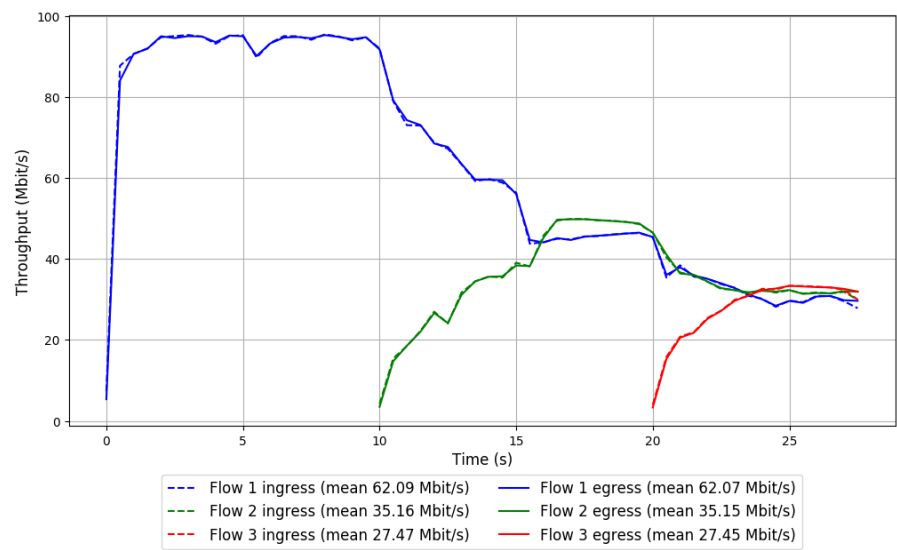
-- Flow 3:

Average throughput: 27.45 Mbit/s

95th percentile per-packet one-way delay: 36.115 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 11:05:02

End at: 2017-11-16 11:05:32

Local clock offset: 0.527 ms

Remote clock offset: 0.395 ms

Below is generated by plot.py at 2017-11-16 14:25:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.20 Mbit/s

95th percentile per-packet one-way delay: 37.476 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 37.376 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 30.39 Mbit/s

95th percentile per-packet one-way delay: 37.406 ms

Loss rate: 0.00%

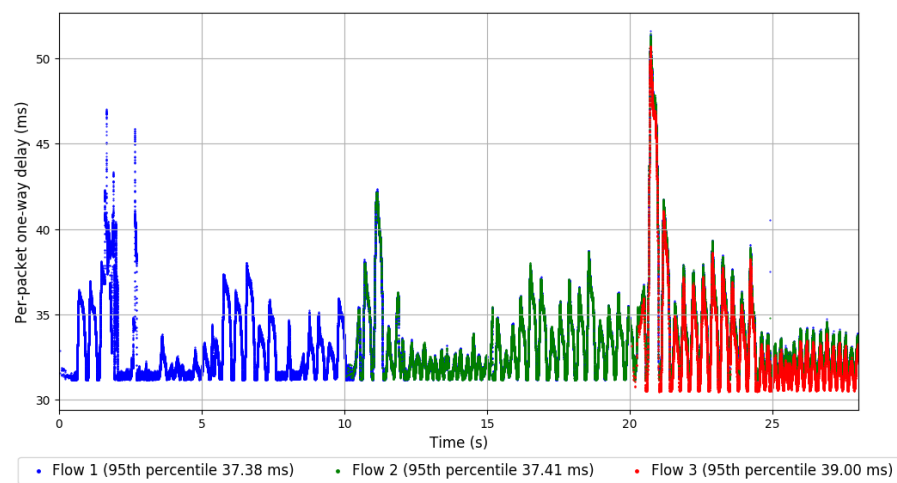
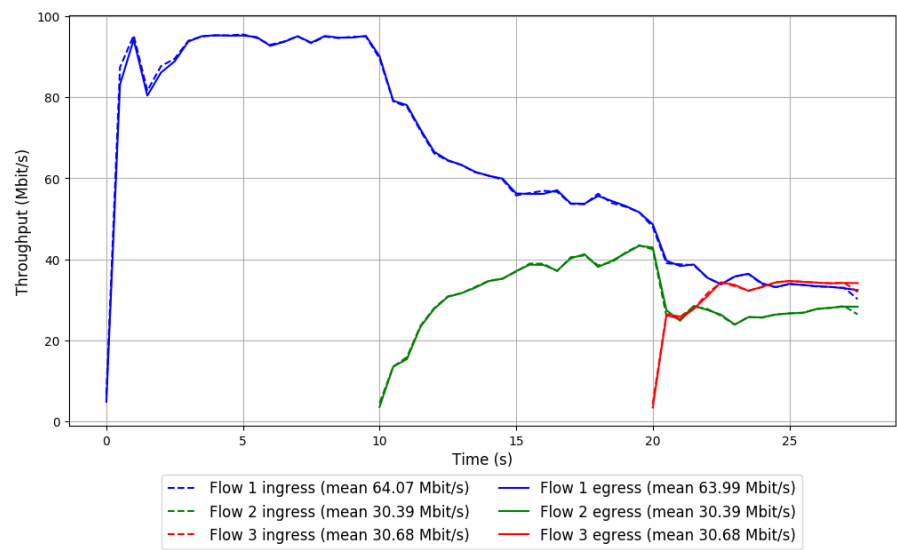
-- Flow 3:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 39.003 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 11:24:21

End at: 2017-11-16 11:24:51

Local clock offset: 0.428 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2017-11-16 14:25:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 37.927 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 60.33 Mbit/s

95th percentile per-packet one-way delay: 38.393 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 36.976 ms

Loss rate: 0.04%

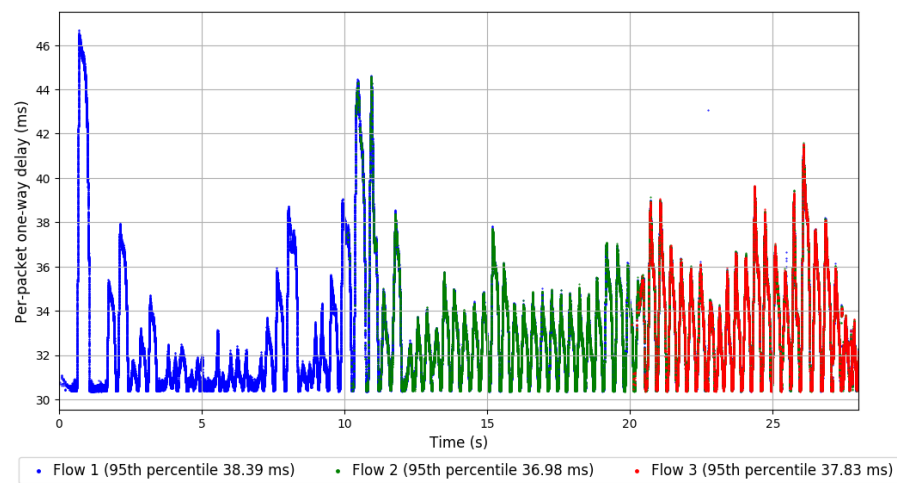
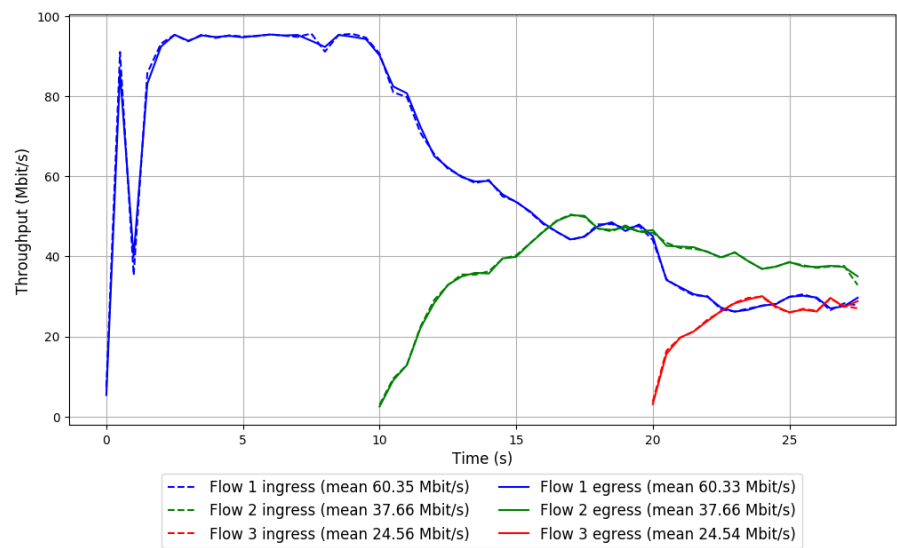
-- Flow 3:

Average throughput: 24.54 Mbit/s

95th percentile per-packet one-way delay: 37.830 ms

Loss rate: 0.11%

Run 3: Report of Copa — Data Link

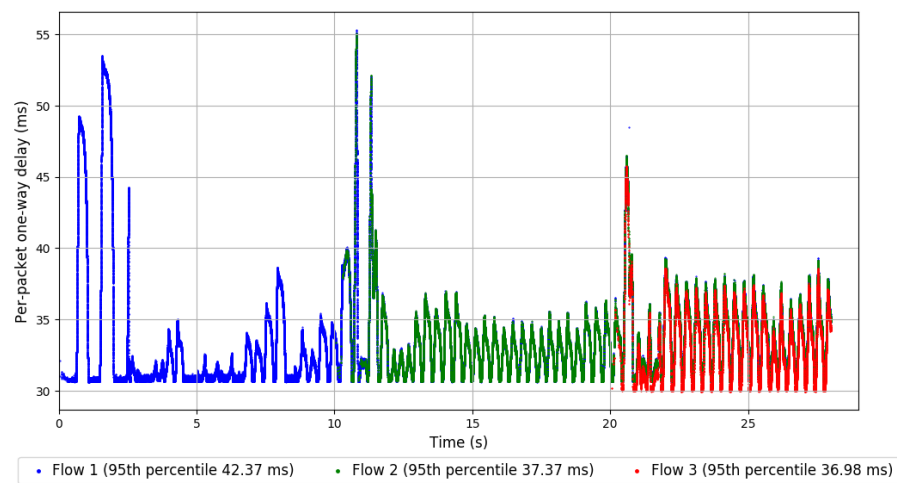
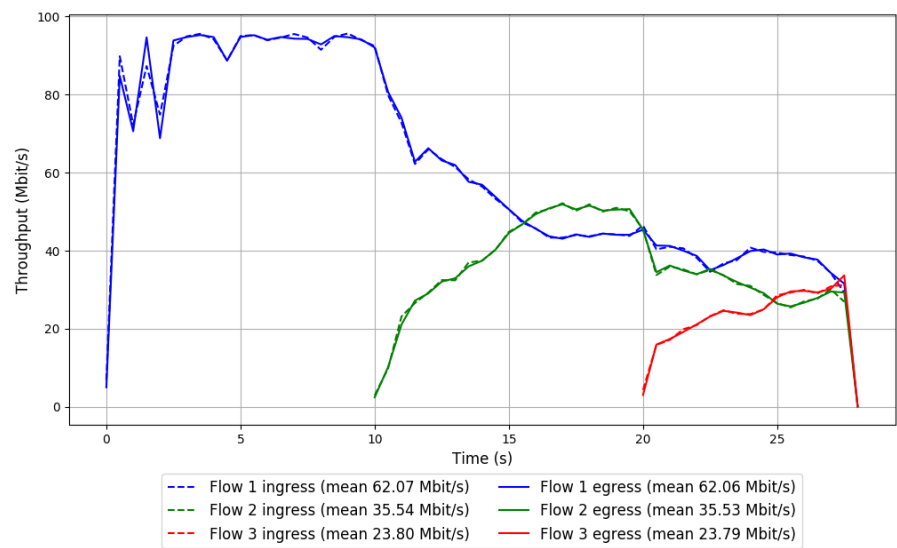


Run 4: Statistics of Copa

Start at: 2017-11-16 11:43:31
End at: 2017-11-16 11:44:01
Local clock offset: 0.221 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2017-11-16 14:25:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 39.166 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.06 Mbit/s
95th percentile per-packet one-way delay: 42.370 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 37.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 36.982 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

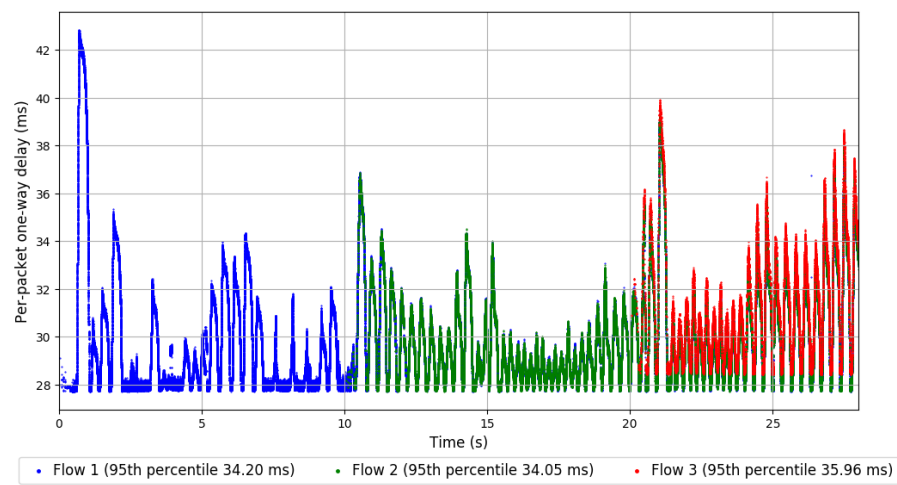
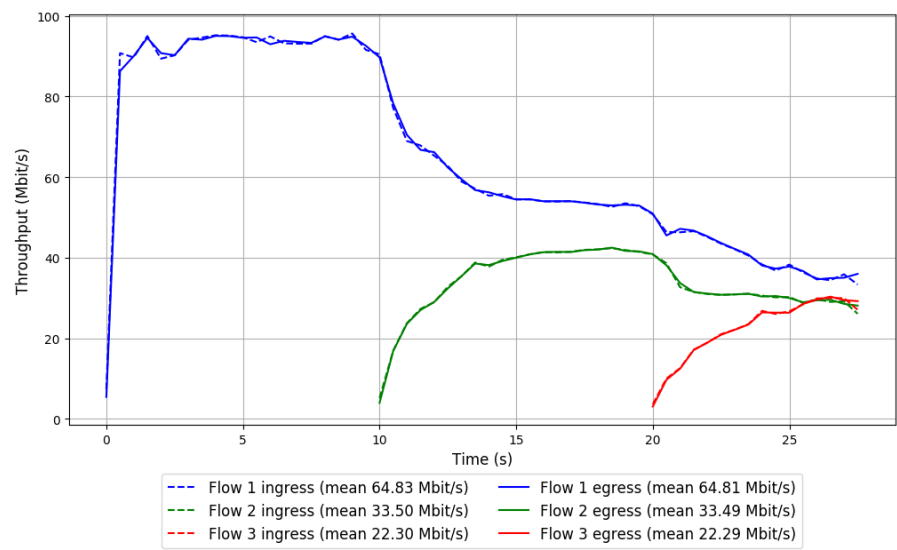


Run 5: Statistics of Copa

Start at: 2017-11-16 12:02:34
End at: 2017-11-16 12:03:04
Local clock offset: 0.207 ms
Remote clock offset: -2.385 ms

Below is generated by plot.py at 2017-11-16 14:26:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.63 Mbit/s
95th percentile per-packet one-way delay: 34.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.81 Mbit/s
95th percentile per-packet one-way delay: 34.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 34.052 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 35.961 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 12:22:14

End at: 2017-11-16 12:22:44

Local clock offset: 0.104 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2017-11-16 14:26:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 38.924 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.26 Mbit/s

95th percentile per-packet one-way delay: 39.043 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 39.230 ms

Loss rate: 0.00%

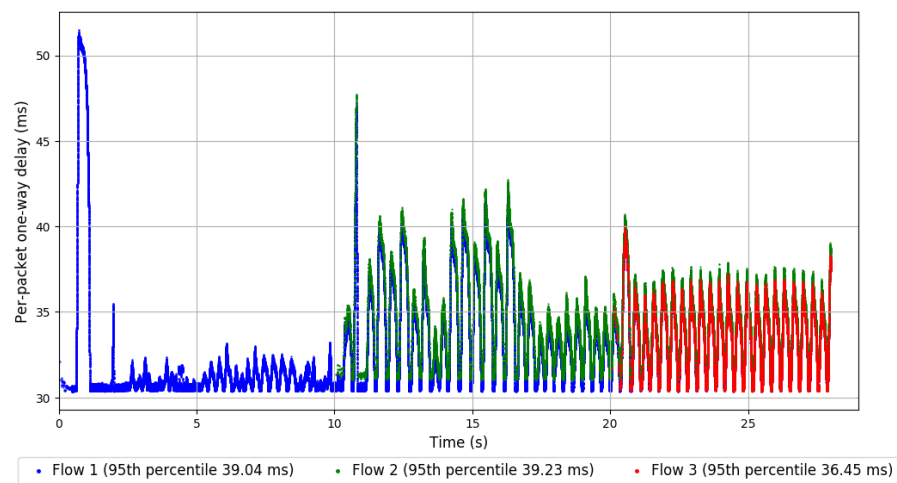
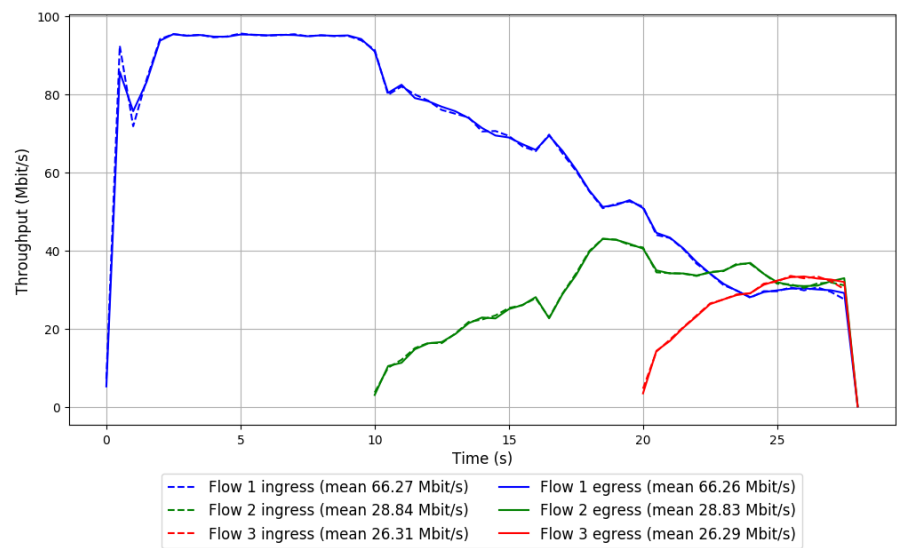
-- Flow 3:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 36.453 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

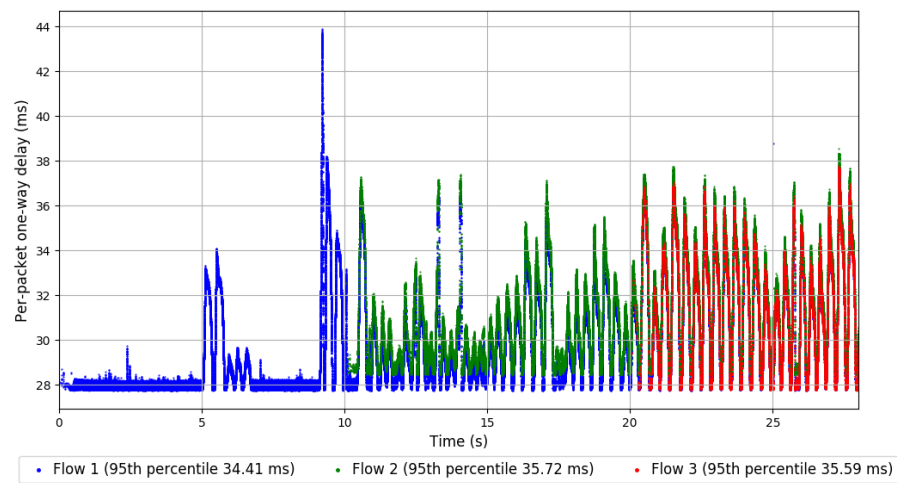
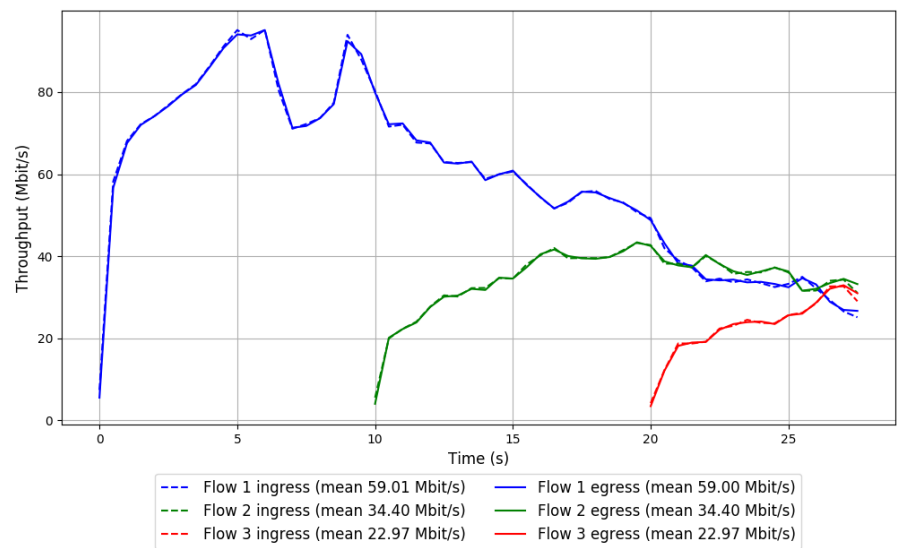


Run 7: Statistics of Copa

Start at: 2017-11-16 12:41:32
End at: 2017-11-16 12:42:02
Local clock offset: 0.113 ms
Remote clock offset: -1.911 ms

Below is generated by plot.py at 2017-11-16 14:26:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 35.055 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 34.412 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 35.717 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 35.593 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 13:00:57

End at: 2017-11-16 13:01:27

Local clock offset: 0.055 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2017-11-16 14:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.25 Mbit/s

95th percentile per-packet one-way delay: 36.431 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 36.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.21 Mbit/s

95th percentile per-packet one-way delay: 35.708 ms

Loss rate: 0.00%

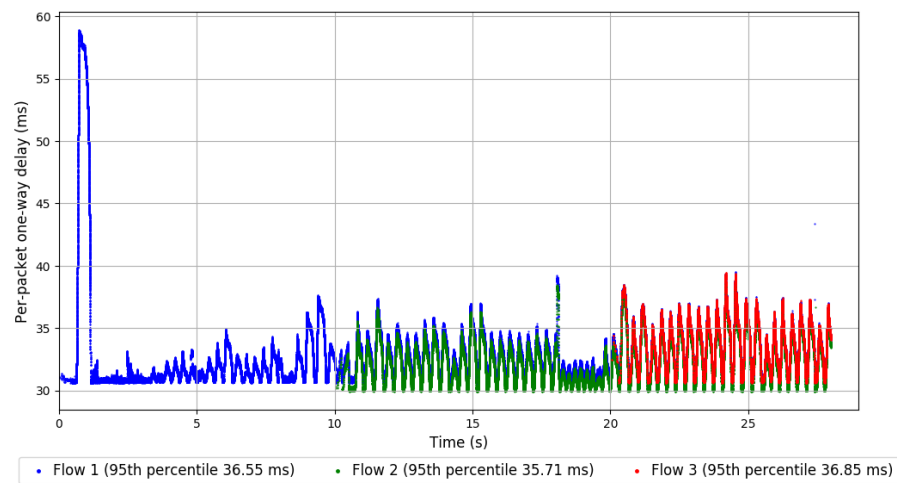
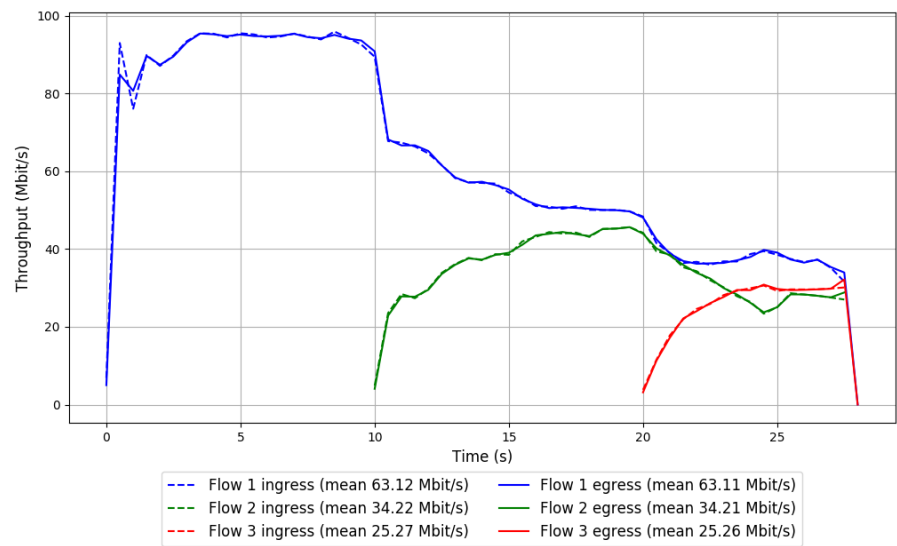
-- Flow 3:

Average throughput: 25.26 Mbit/s

95th percentile per-packet one-way delay: 36.848 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 13:20:22

End at: 2017-11-16 13:20:52

Local clock offset: 0.087 ms

Remote clock offset: 0.522 ms

Below is generated by plot.py at 2017-11-16 14:27:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 36.121 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 35.940 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 36.443 ms

Loss rate: 0.01%

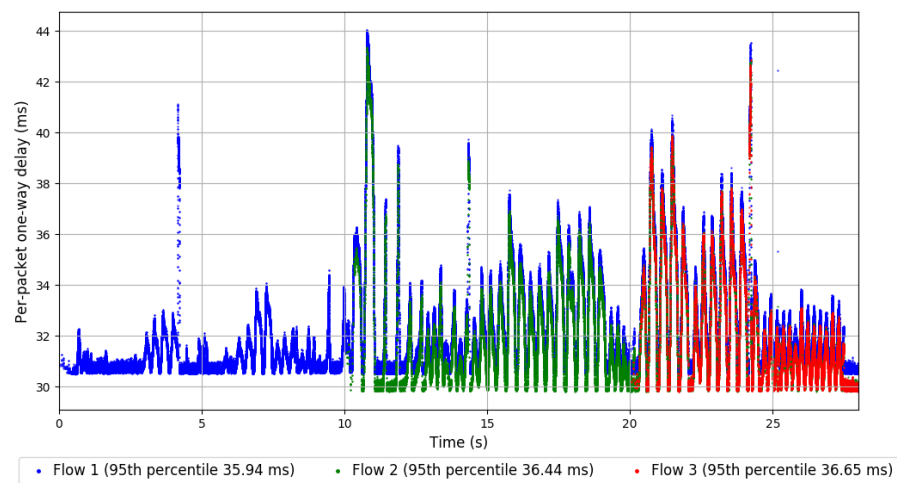
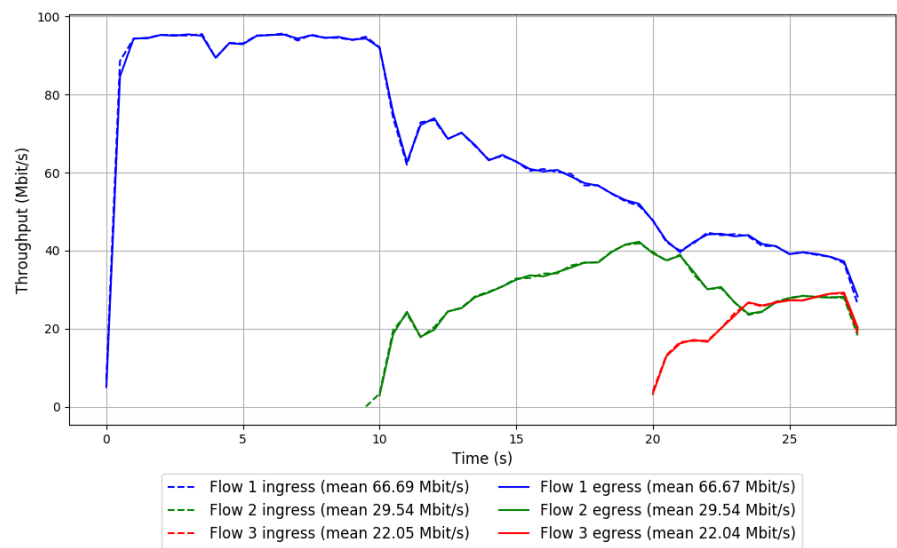
-- Flow 3:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 36.650 ms

Loss rate: 0.04%

Run 9: Report of Copa — Data Link

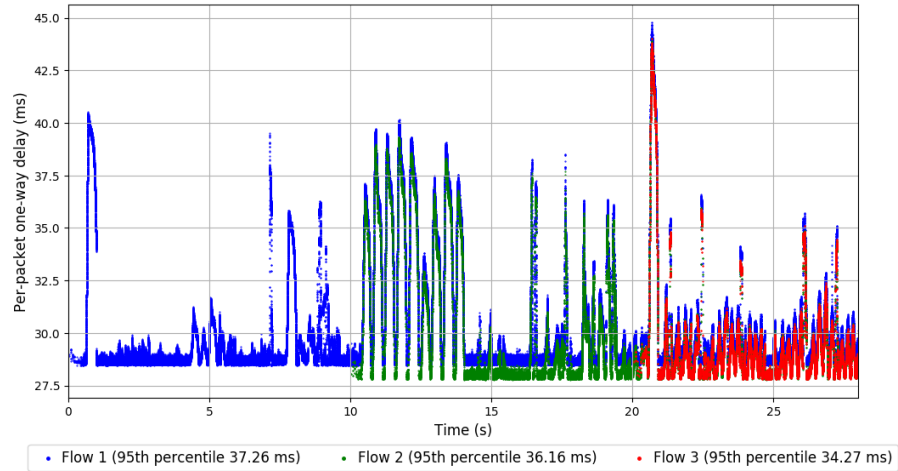
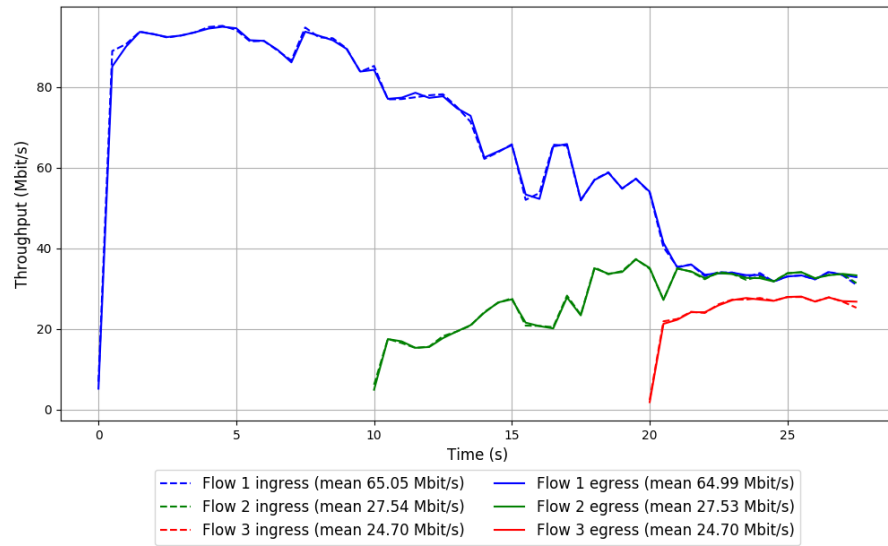


Run 10: Statistics of Copa

Start at: 2017-11-16 13:39:56
End at: 2017-11-16 13:40:26
Local clock offset: 0.073 ms
Remote clock offset: -1.942 ms

Below is generated by plot.py at 2017-11-16 14:27:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.69 Mbit/s
95th percentile per-packet one-way delay: 36.994 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 37.258 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 36.160 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 34.270 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

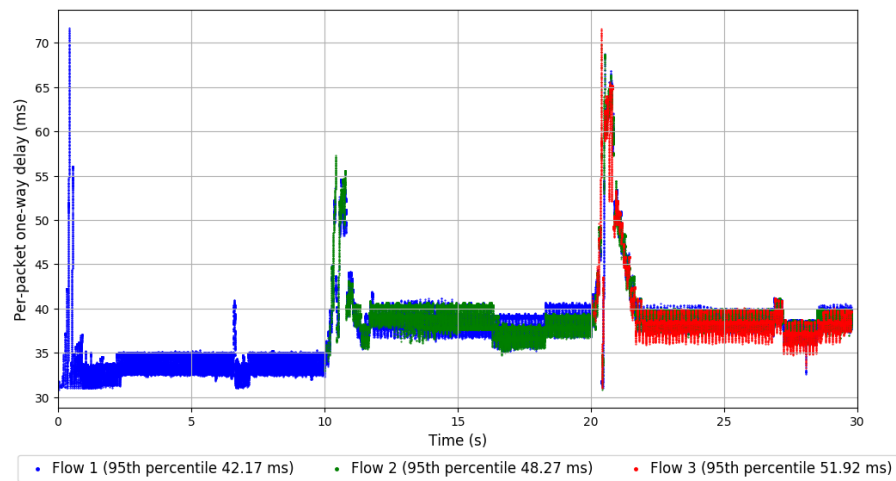
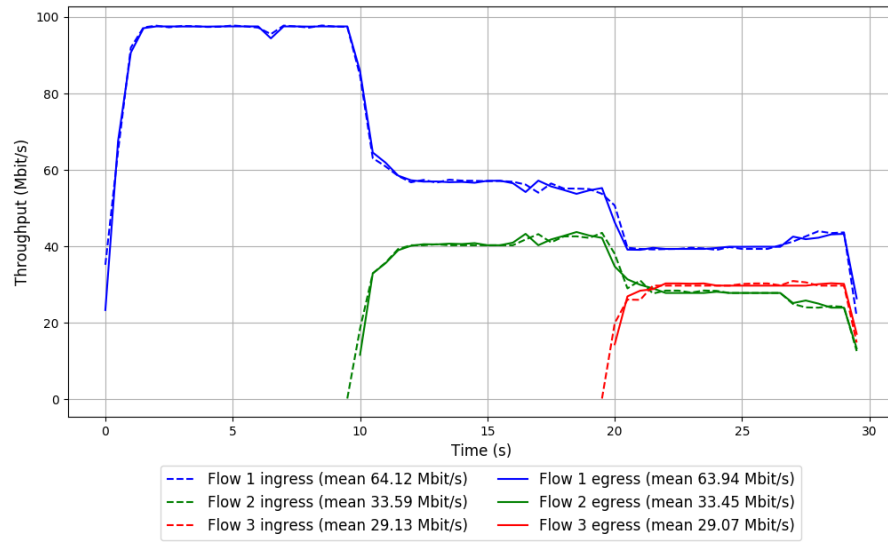


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 10:48:48
End at: 2017-11-16 10:49:18
Local clock offset: 0.827 ms
Remote clock offset: 0.687 ms

# Below is generated by plot.py at 2017-11-16 14:27:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 44.529 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 42.173 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 48.271 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 29.07 Mbit/s
95th percentile per-packet one-way delay: 51.919 ms
Loss rate: 0.21%
```

Run 1: Report of Indigo — Data Link

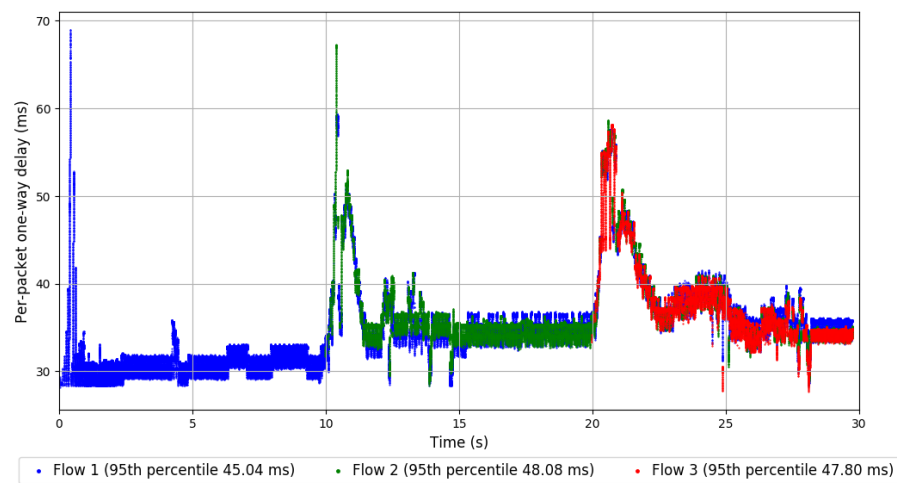
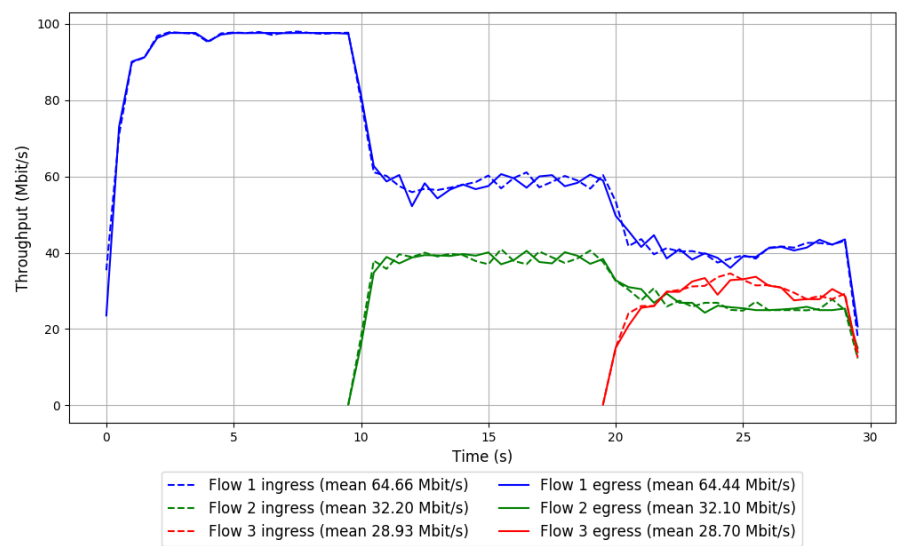


Run 2: Statistics of Indigo

Start at: 2017-11-16 11:07:53
End at: 2017-11-16 11:08:23
Local clock offset: 0.614 ms
Remote clock offset: -2.368 ms

Below is generated by plot.py at 2017-11-16 14:27:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 46.376 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 45.037 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 48.076 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 47.800 ms
Loss rate: 0.76%

Run 2: Report of Indigo — Data Link

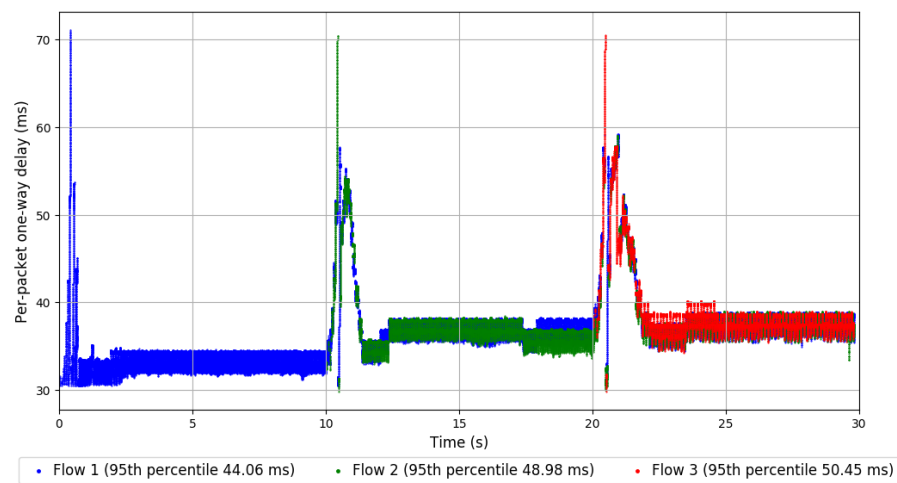
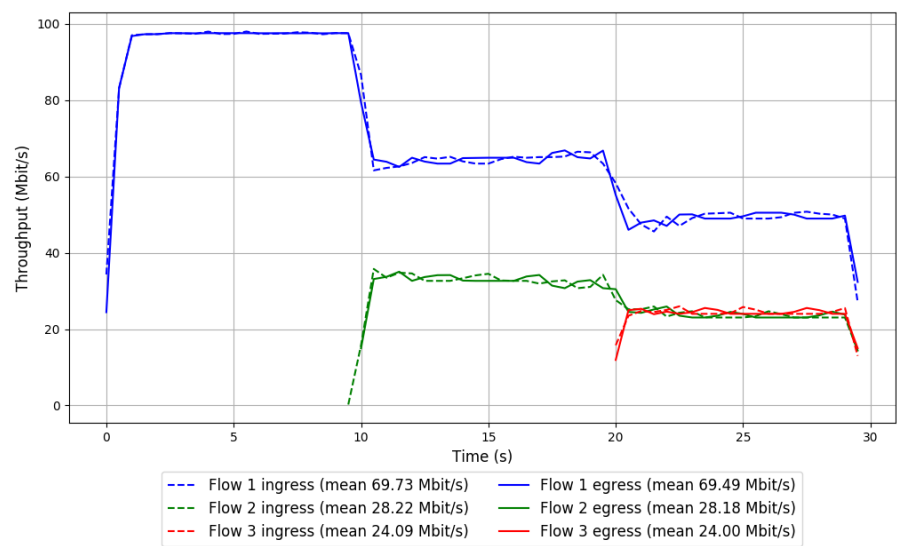


Run 3: Statistics of Indigo

Start at: 2017-11-16 11:27:10
End at: 2017-11-16 11:27:40
Local clock offset: 0.388 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2017-11-16 14:27:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 46.848 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 69.49 Mbit/s
95th percentile per-packet one-way delay: 44.058 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 28.18 Mbit/s
95th percentile per-packet one-way delay: 48.977 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 50.447 ms
Loss rate: 0.38%

Run 3: Report of Indigo — Data Link

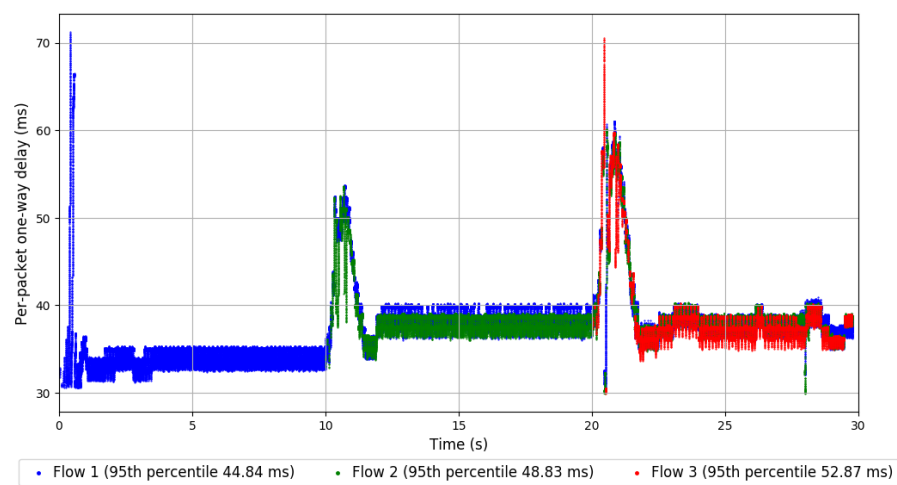
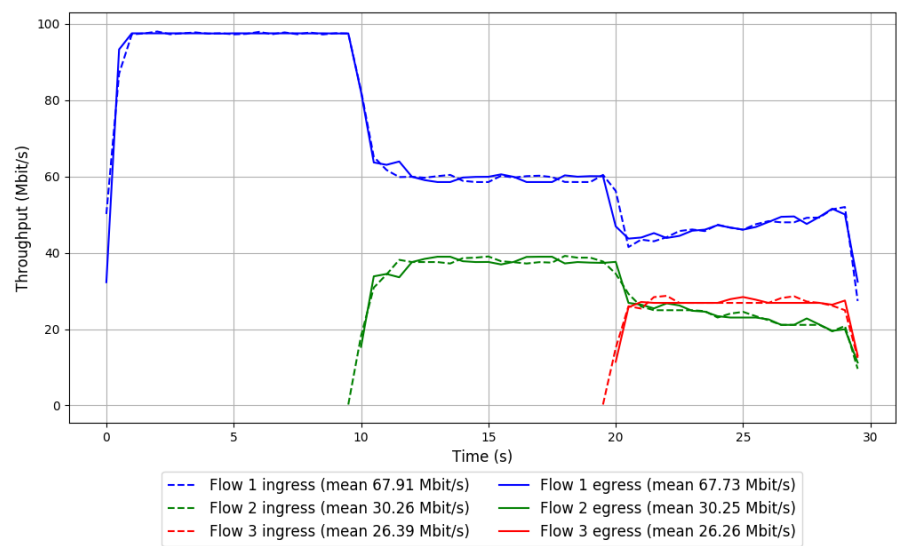


Run 4: Statistics of Indigo

Start at: 2017-11-16 11:46:20
End at: 2017-11-16 11:46:50
Local clock offset: 0.218 ms
Remote clock offset: -0.345 ms

Below is generated by plot.py at 2017-11-16 14:27:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.41 Mbit/s
95th percentile per-packet one-way delay: 47.366 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 67.73 Mbit/s
95th percentile per-packet one-way delay: 44.839 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 48.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 52.865 ms
Loss rate: 0.47%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 12:05:23

End at: 2017-11-16 12:05:53

Local clock offset: 0.286 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2017-11-16 14:27:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 46.640 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 63.86 Mbit/s

95th percentile per-packet one-way delay: 43.682 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 47.873 ms

Loss rate: 0.12%

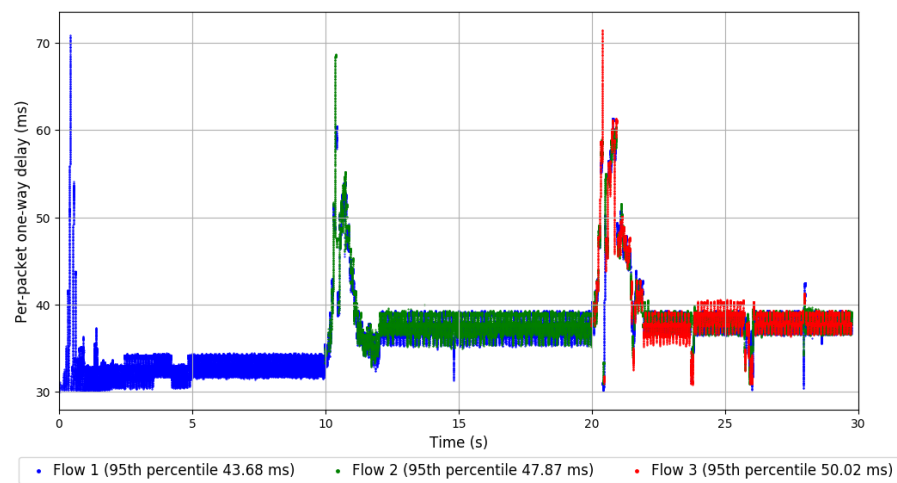
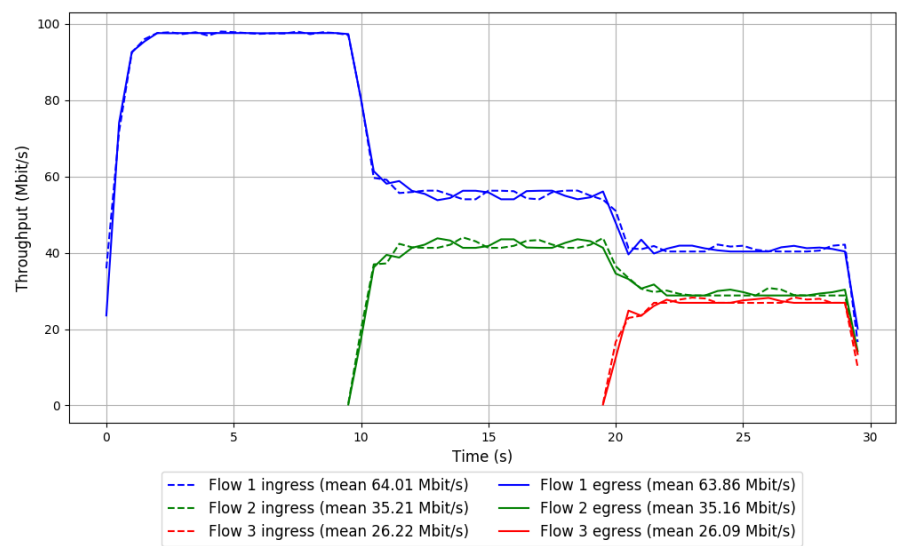
-- Flow 3:

Average throughput: 26.09 Mbit/s

95th percentile per-packet one-way delay: 50.023 ms

Loss rate: 0.48%

Run 5: Report of Indigo — Data Link

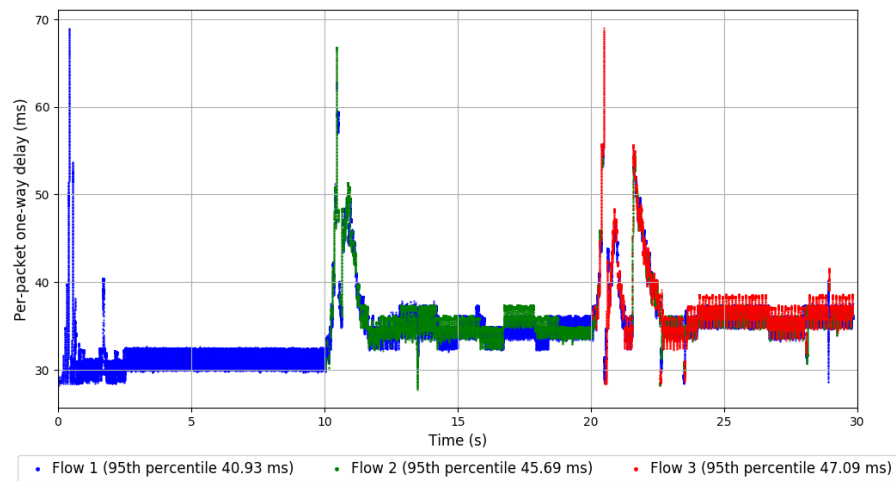
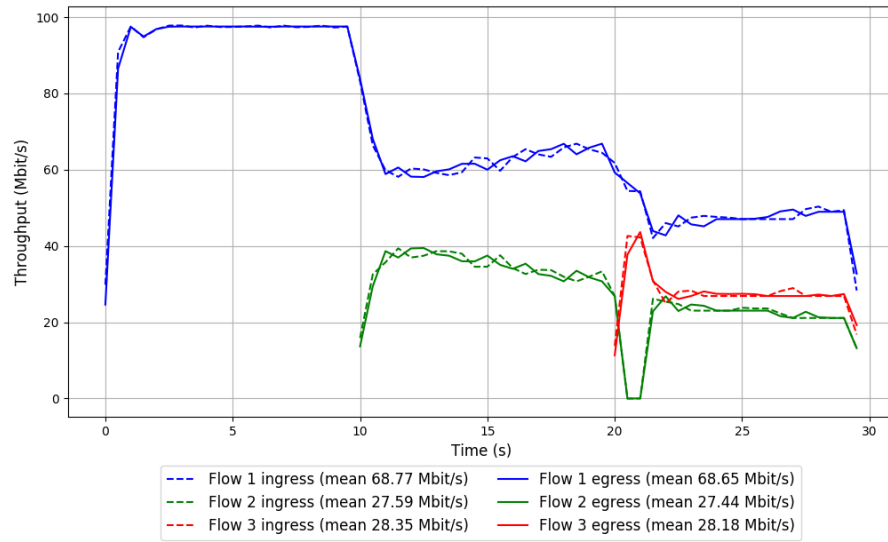


Run 6: Statistics of Indigo

Start at: 2017-11-16 12:25:05
End at: 2017-11-16 12:25:35
Local clock offset: 0.194 ms
Remote clock offset: -2.039 ms

Below is generated by plot.py at 2017-11-16 14:27:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 43.682 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 68.65 Mbit/s
95th percentile per-packet one-way delay: 40.926 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 45.690 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 28.18 Mbit/s
95th percentile per-packet one-way delay: 47.093 ms
Loss rate: 0.56%

Run 6: Report of Indigo — Data Link

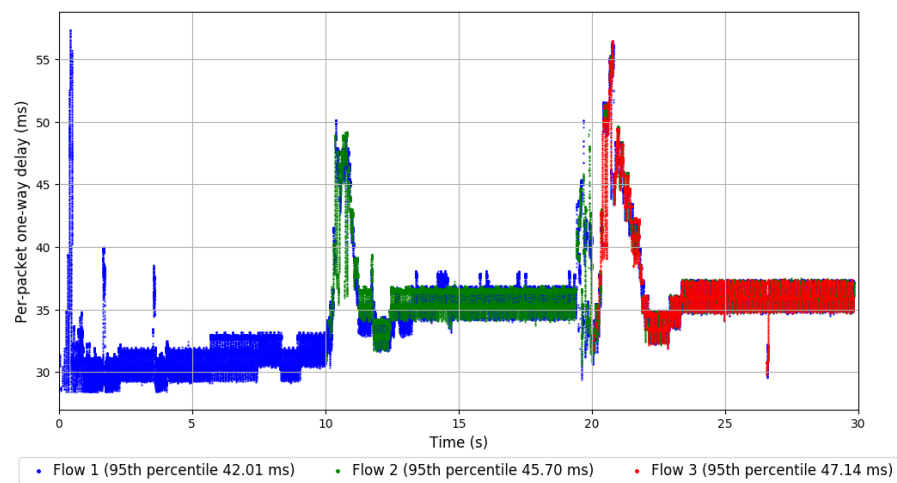
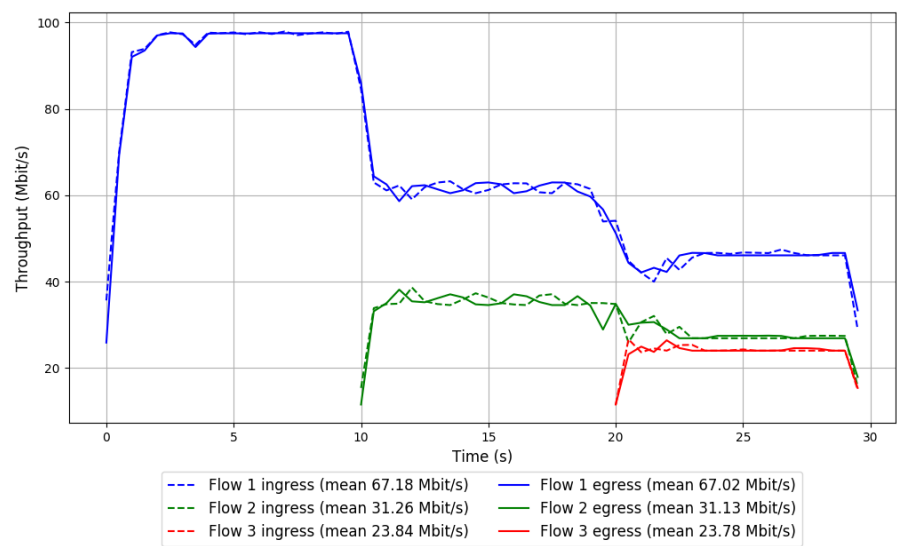


Run 7: Statistics of Indigo

Start at: 2017-11-16 12:44:28
End at: 2017-11-16 12:44:58
Local clock offset: 0.048 ms
Remote clock offset: -1.989 ms

Below is generated by plot.py at 2017-11-16 14:28:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 44.422 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 67.02 Mbit/s
95th percentile per-packet one-way delay: 42.009 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 45.703 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 47.140 ms
Loss rate: 0.22%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 13:03:48

End at: 2017-11-16 13:04:18

Local clock offset: 0.144 ms

Remote clock offset: 0.596 ms

Below is generated by plot.py at 2017-11-16 14:28:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.51 Mbit/s

95th percentile per-packet one-way delay: 47.476 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 65.78 Mbit/s

95th percentile per-packet one-way delay: 42.717 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.85%

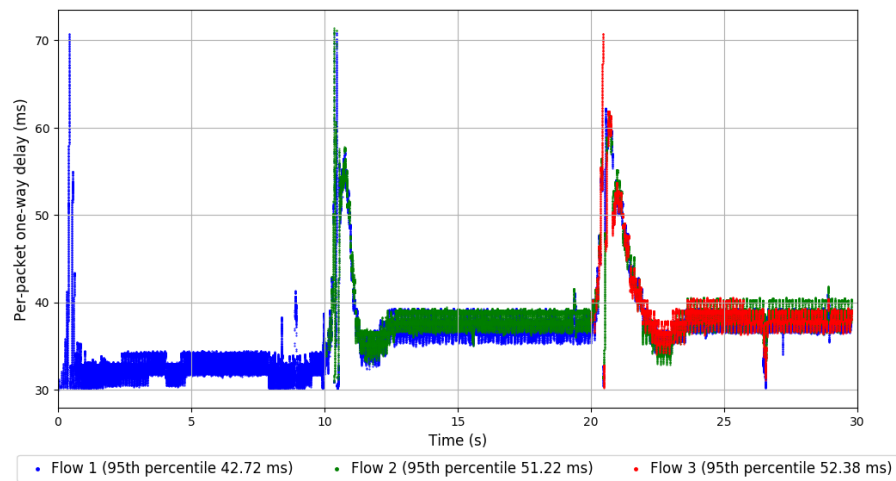
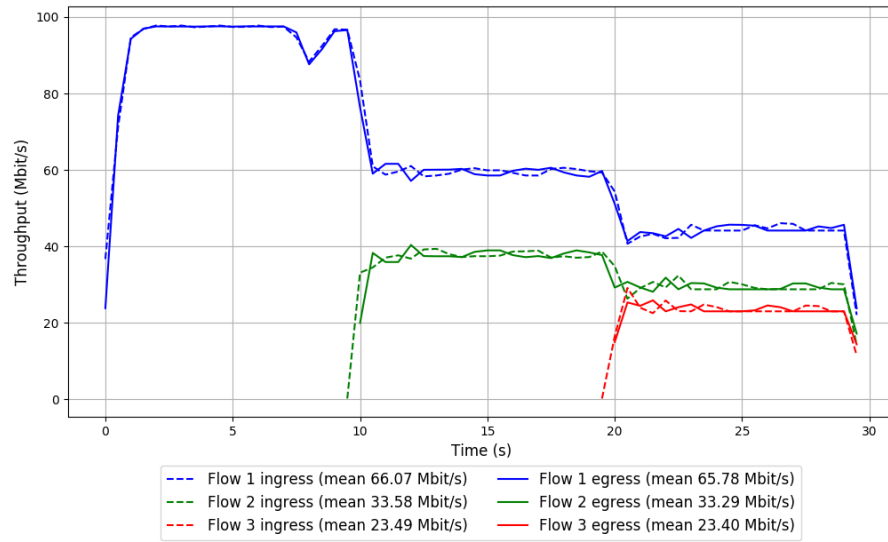
-- Flow 3:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 52.380 ms

Loss rate: 0.37%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 13:23:17

End at: 2017-11-16 13:23:47

Local clock offset: 0.171 ms

Remote clock offset: 1.039 ms

Below is generated by plot.py at 2017-11-16 14:29:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 46.102 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 42.741 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 50.553 ms

Loss rate: 0.00%

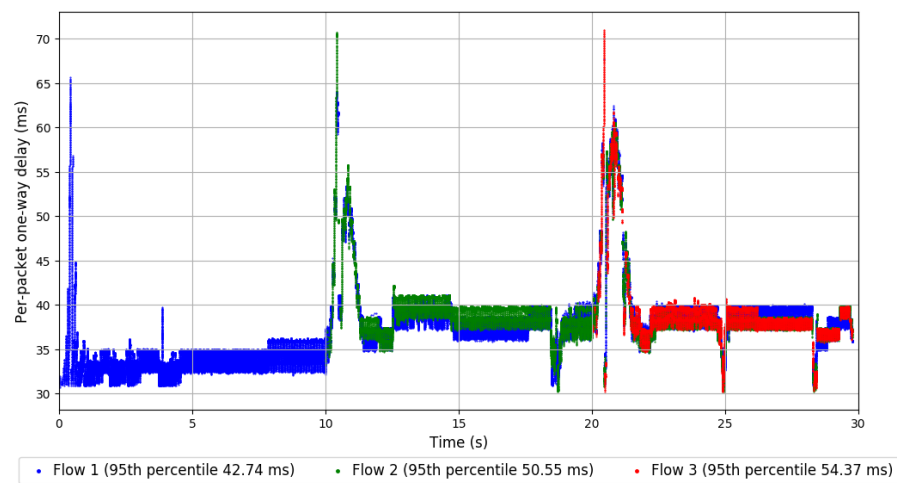
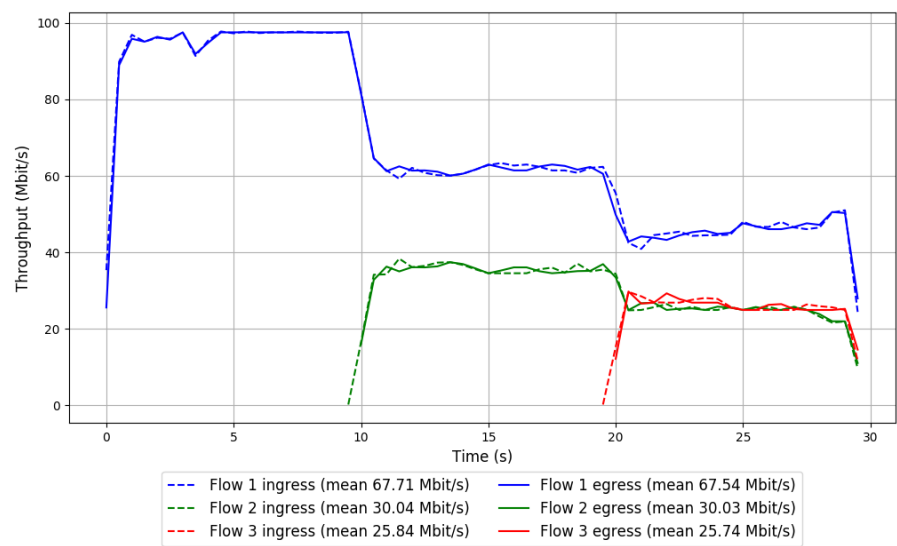
-- Flow 3:

Average throughput: 25.74 Mbit/s

95th percentile per-packet one-way delay: 54.367 ms

Loss rate: 0.38%

Run 9: Report of Indigo — Data Link

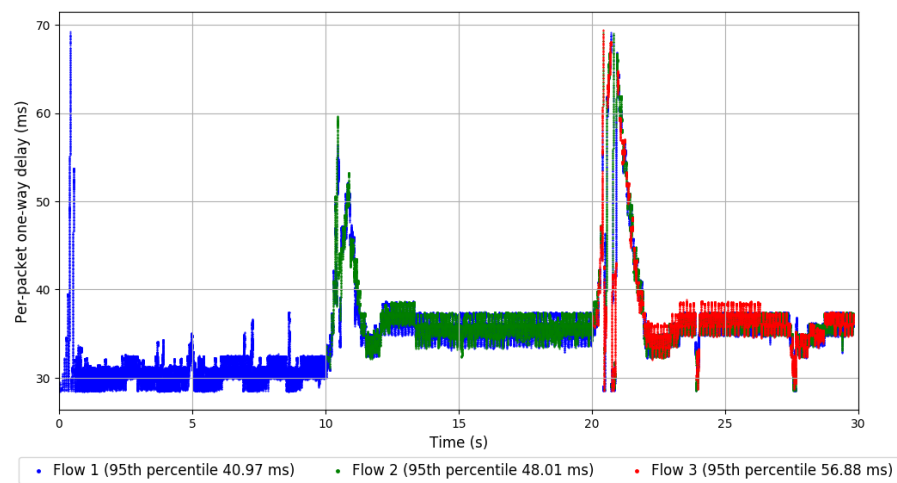
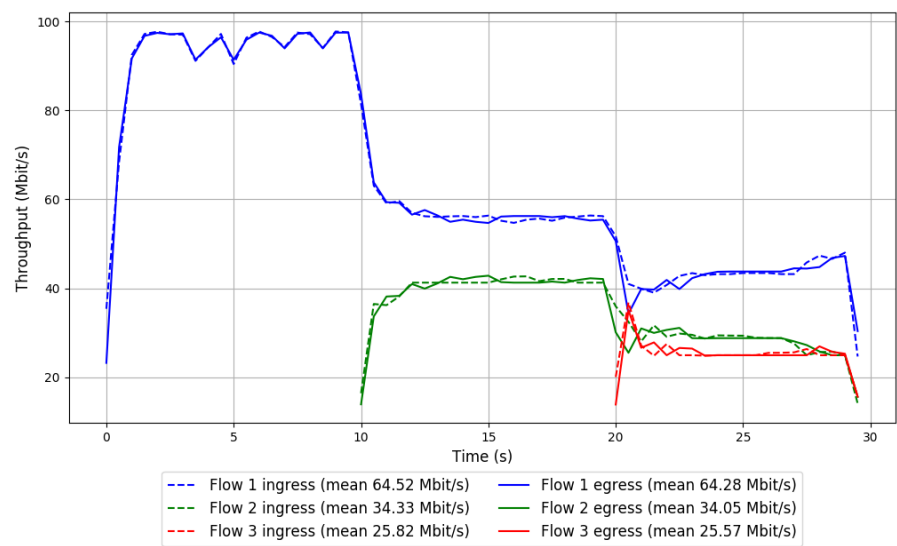


Run 10: Statistics of Indigo

Start at: 2017-11-16 13:42:55
End at: 2017-11-16 13:43:25
Local clock offset: 0.081 ms
Remote clock offset: -2.027 ms

Below is generated by plot.py at 2017-11-16 14:29:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 45.321 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 64.28 Mbit/s
95th percentile per-packet one-way delay: 40.968 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 48.011 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 25.57 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.95%

Run 10: Report of Indigo — Data Link

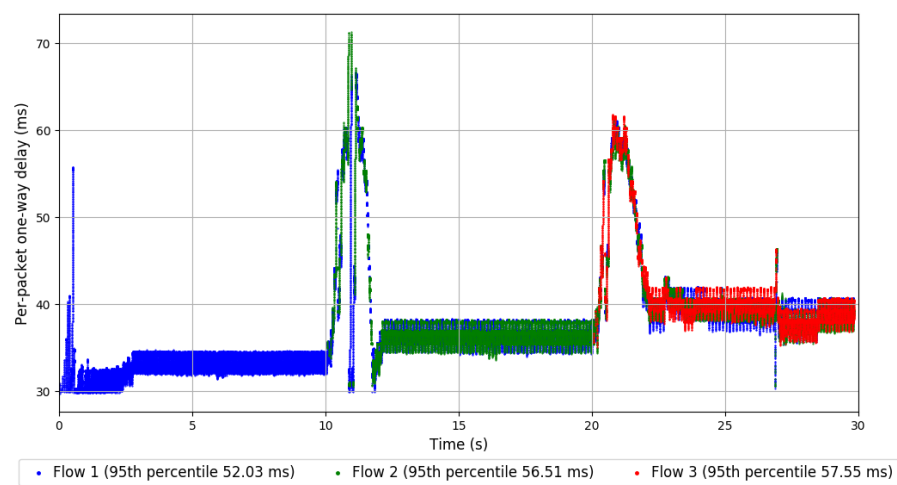
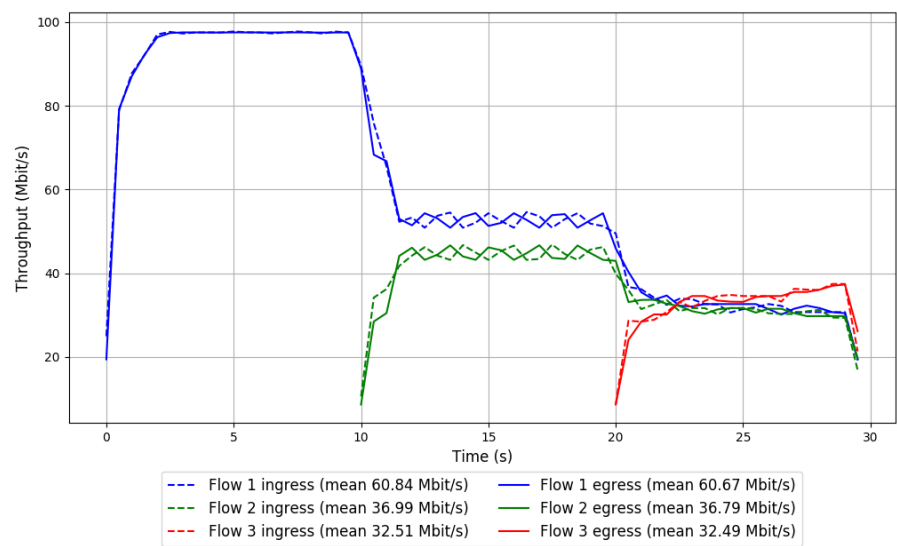


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 10:37:52
End at: 2017-11-16 10:38:22
Local clock offset: 0.876 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2017-11-16 14:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 55.093 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 60.67 Mbit/s
95th percentile per-packet one-way delay: 52.027 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 36.79 Mbit/s
95th percentile per-packet one-way delay: 56.511 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 57.550 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

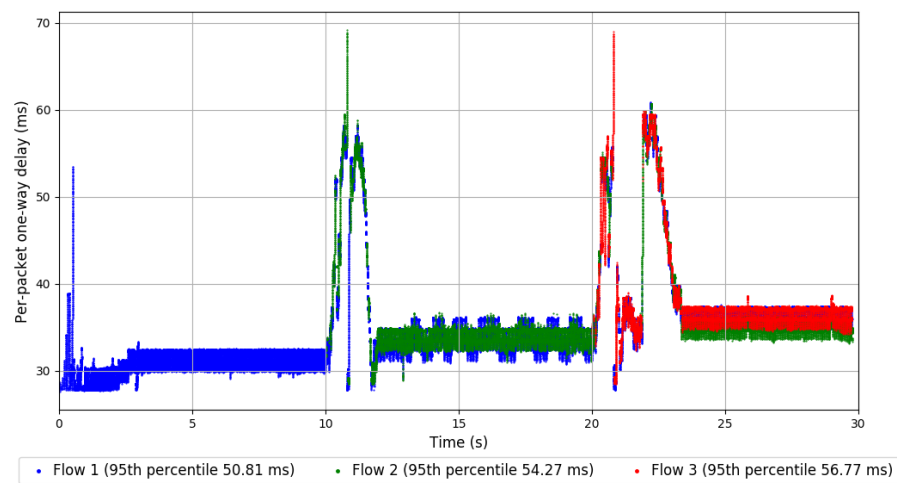
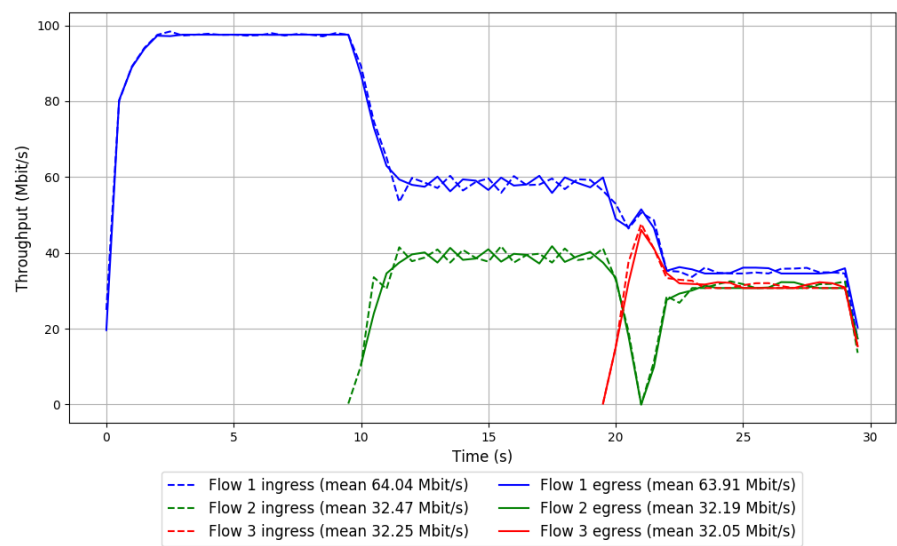


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 10:56:58
End at: 2017-11-16 10:57:28
Local clock offset: 0.605 ms
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2017-11-16 14:29:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 53.036 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 56.766 ms
Loss rate: 0.58%
```


Run 2: Report of Indigo-calib — Data Link

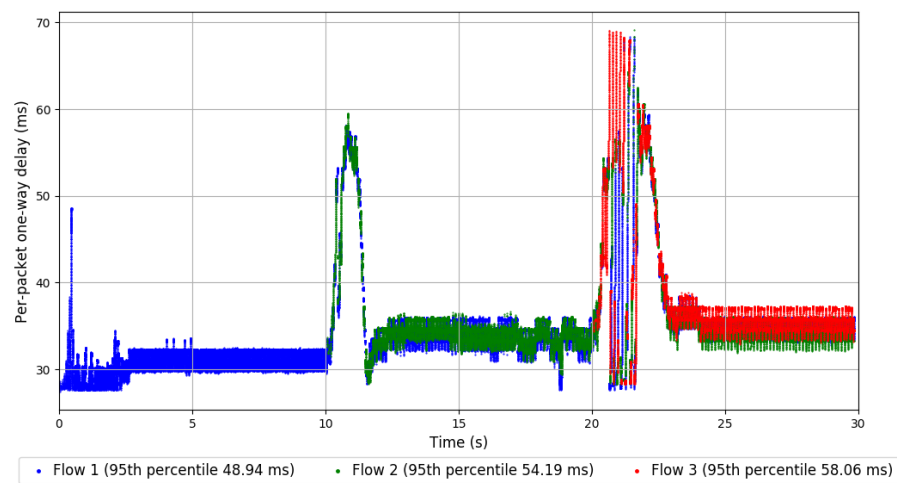
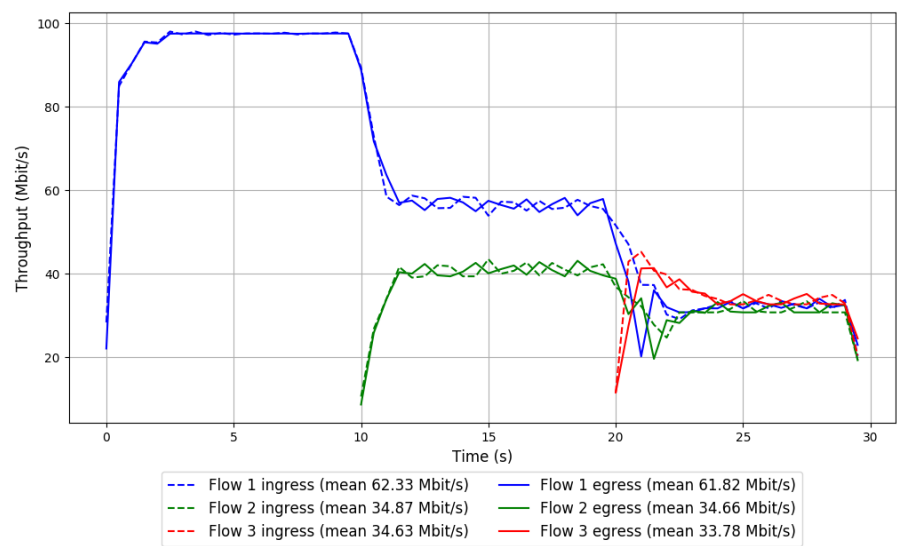


Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 11:16:14
End at: 2017-11-16 11:16:45
Local clock offset: 0.562 ms
Remote clock offset: -2.531 ms

Below is generated by plot.py at 2017-11-16 14:29:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 52.901 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 48.943 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 54.190 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 33.78 Mbit/s
95th percentile per-packet one-way delay: 58.059 ms
Loss rate: 2.45%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 11:35:23

End at: 2017-11-16 11:35:53

Local clock offset: 0.386 ms

Remote clock offset: -2.58 ms

Below is generated by plot.py at 2017-11-16 14:29:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.60 Mbit/s

95th percentile per-packet one-way delay: 51.742 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 62.83 Mbit/s

95th percentile per-packet one-way delay: 50.444 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 33.87 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 1.43%

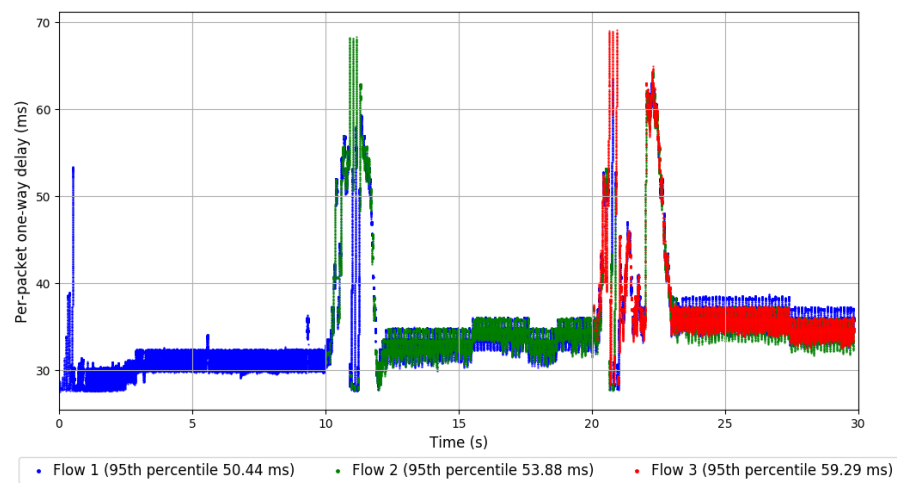
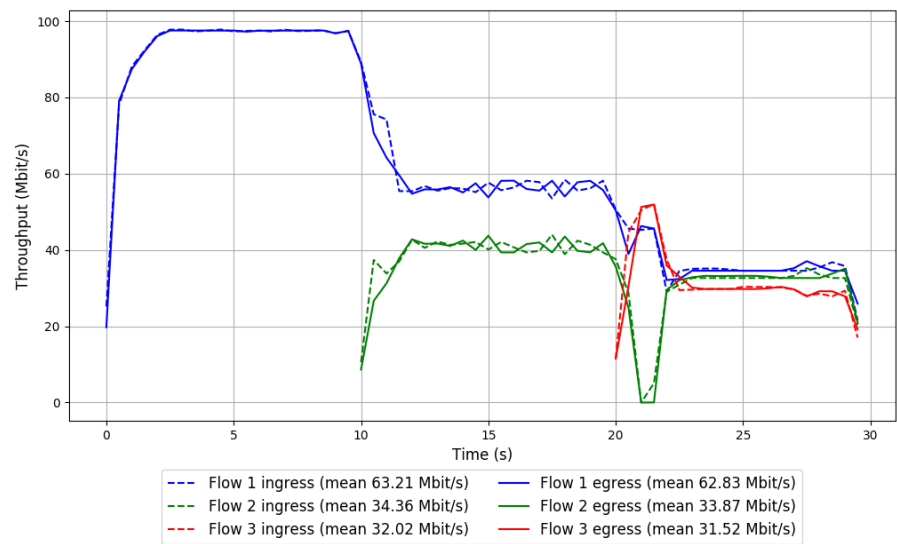
-- Flow 3:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 59.289 ms

Loss rate: 1.57%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 11:54:31

End at: 2017-11-16 11:55:01

Local clock offset: 0.3 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2017-11-16 14:30:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 54.744 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 53.023 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 55.698 ms

Loss rate: 0.72%

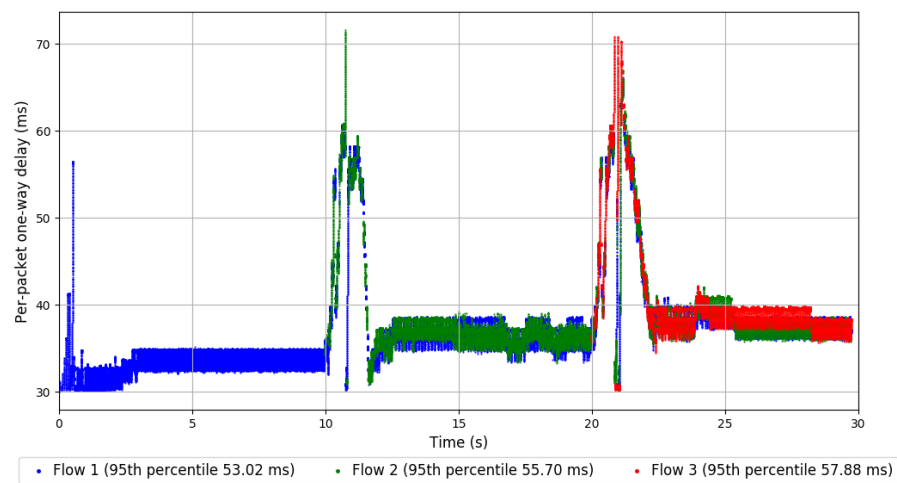
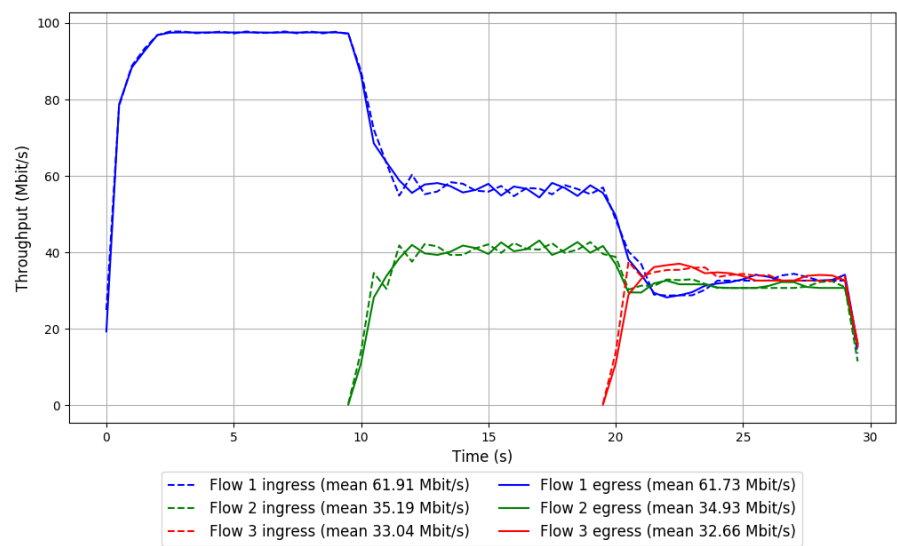
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 57.879 ms

Loss rate: 1.11%

Run 5: Report of Indigo-calib — Data Link

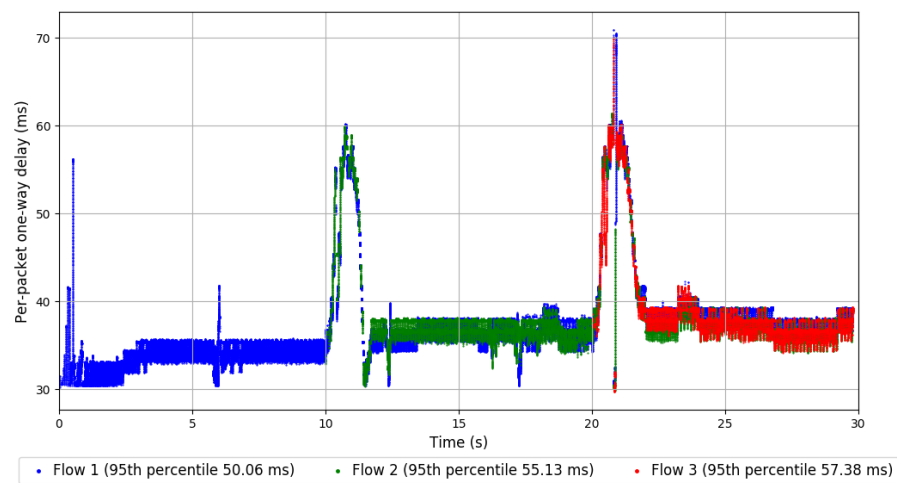
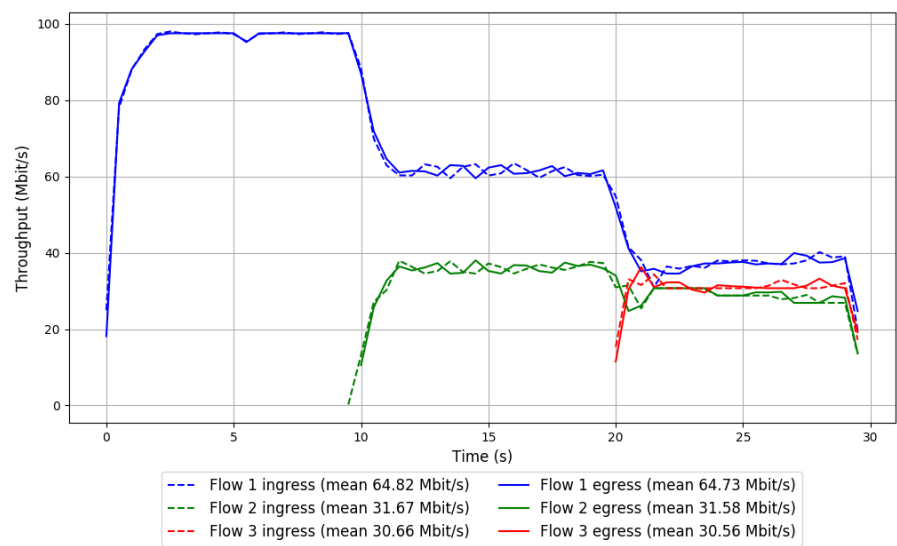


Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 12:13:57
End at: 2017-11-16 12:14:27
Local clock offset: 0.266 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2017-11-16 14:30:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 53.751 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 50.060 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 55.130 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 57.382 ms
Loss rate: 0.29%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 12:33:20

End at: 2017-11-16 12:33:50

Local clock offset: 0.128 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2017-11-16 14:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 53.668 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 54.966 ms

Loss rate: 0.27%

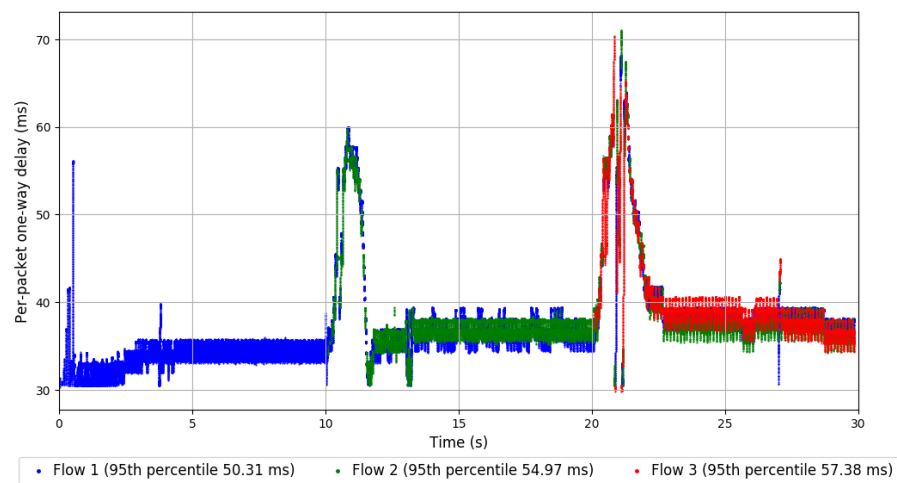
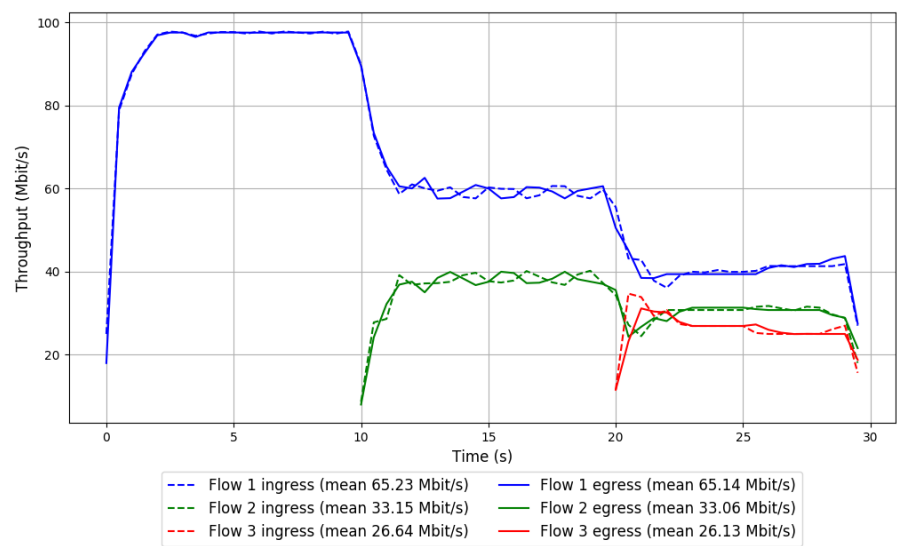
-- Flow 3:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 57.380 ms

Loss rate: 1.90%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 12:52:49

End at: 2017-11-16 12:53:19

Local clock offset: 0.057 ms

Remote clock offset: -1.95 ms

Below is generated by plot.py at 2017-11-16 14:30:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 51.840 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 63.23 Mbit/s

95th percentile per-packet one-way delay: 49.627 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 30.62 Mbit/s

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

Loss rate: 0.76%

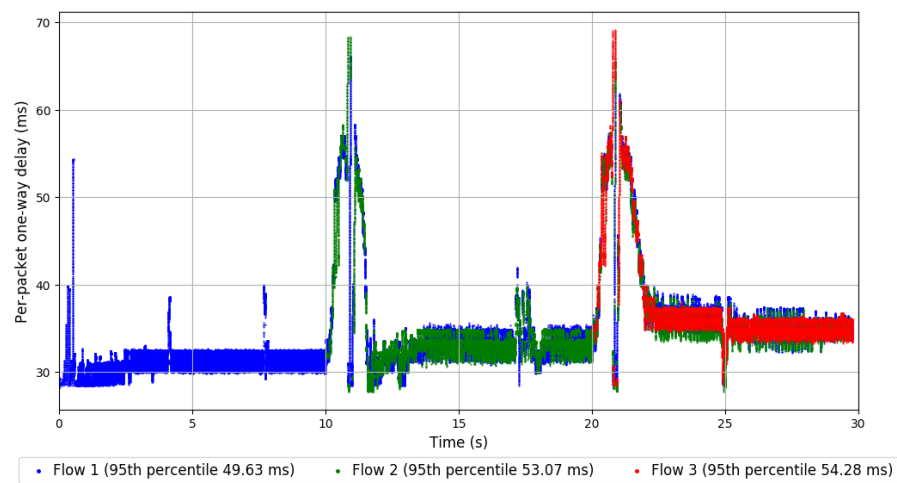
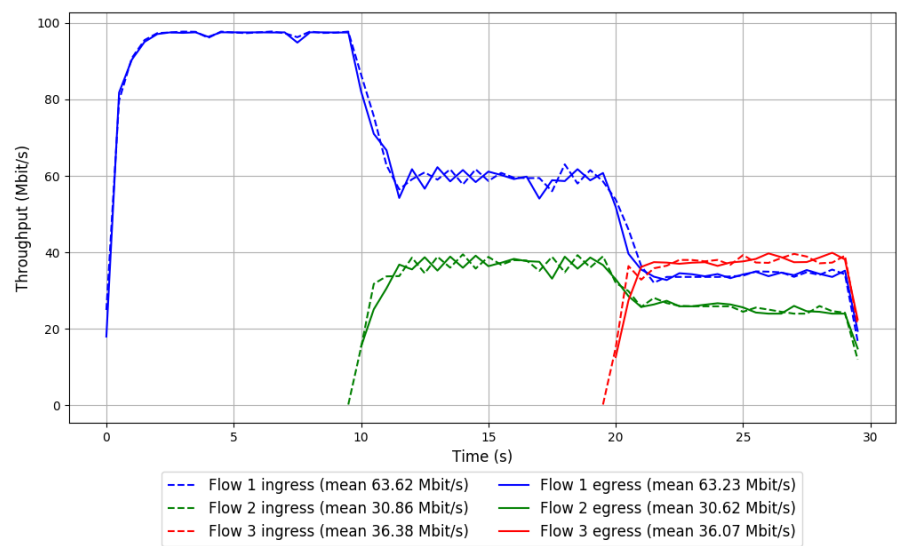
-- Flow 3:

Average throughput: 36.07 Mbit/s

95th percentile per-packet one-way delay: 54.280 ms

Loss rate: 0.83%

Run 8: Report of Indigo-calib — Data Link

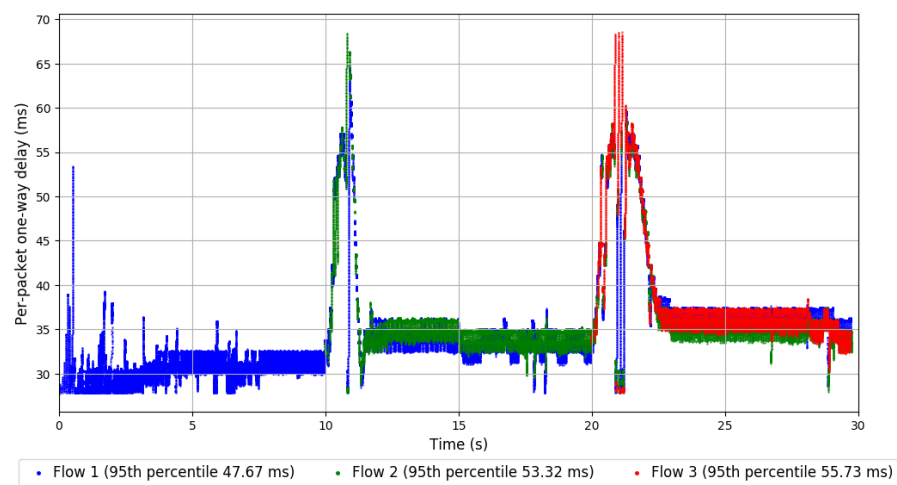
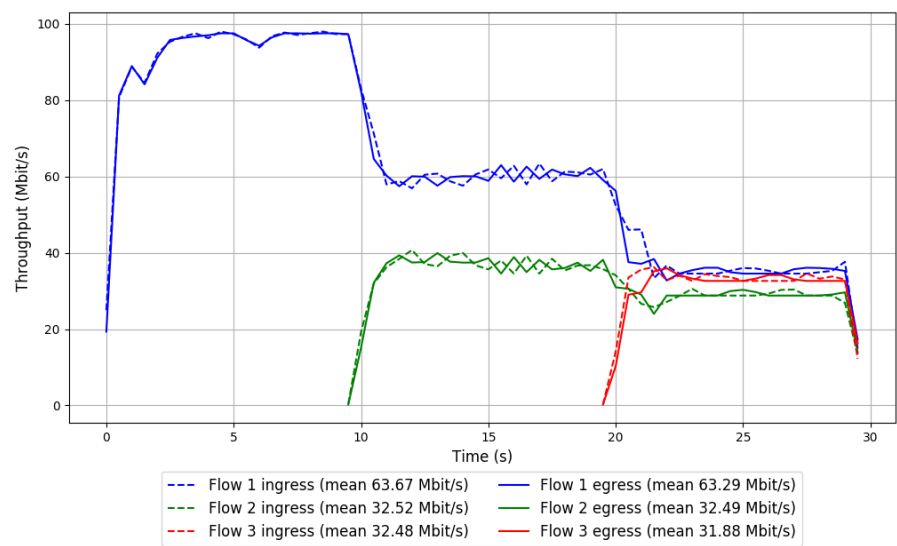


Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 13:12:06
End at: 2017-11-16 13:12:36
Local clock offset: 0.072 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2017-11-16 14:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 52.205 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 63.29 Mbit/s
95th percentile per-packet one-way delay: 47.674 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 53.323 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 55.732 ms
Loss rate: 1.83%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 13:31:36

End at: 2017-11-16 13:32:06

Local clock offset: 0.161 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2017-11-16 14:30:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.57 Mbit/s

95th percentile per-packet one-way delay: 53.972 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 52.512 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.37 Mbit/s

95th percentile per-packet one-way delay: 56.167 ms

Loss rate: 0.37%

-- Flow 3:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 55.928 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

