

Pantheon Report

Generated at 2018-02-03 05:53:04 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

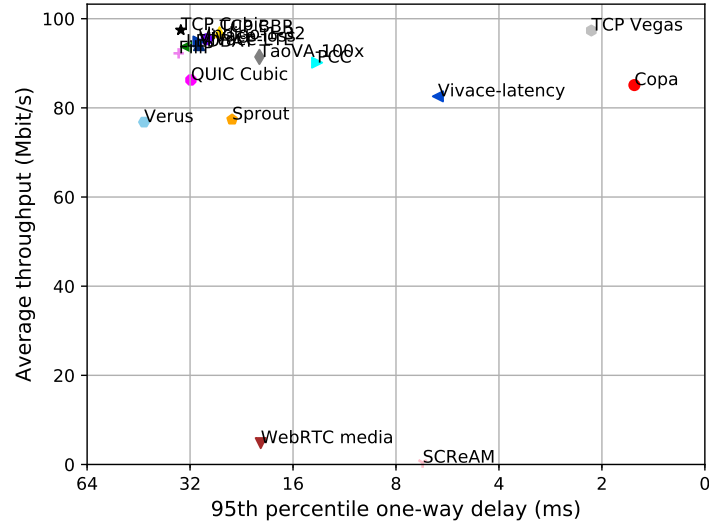
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

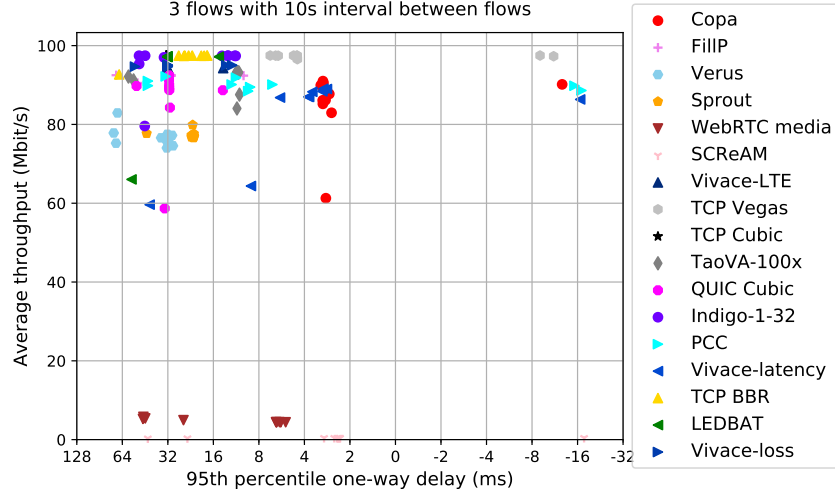
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS Brazil 1 Ethernet to Brazil 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	67.66	31.84	24.41	26.17	21.81	27.33	0.56	0.05	0.31
TCP Cubic	10	65.29	32.40	31.98	34.20	36.59	32.77	0.04	0.20	0.13
LEDBAT	9	55.68	43.91	26.60	34.47	30.33	34.49	0.23	0.05	0.18
PCC	10	74.37	16.70	14.19	8.73	25.02	12.32	0.09	1.82	0.10
QUIC Cubic	10	54.88	33.39	28.10	33.26	36.39	37.07	0.63	0.77	0.38
SCReAM	10	0.21	0.21	0.22	2.67	2.58	-1.58	0.34	0.51	0.00
WebRTC media	10	2.52	1.68	0.59	11.65	16.08	14.38	0.63	1.52	1.41
Sprout	10	42.01	37.92	30.76	20.56	21.74	27.08	0.00	0.00	0.18
TaoVA-100x	10	55.29	40.47	27.70	15.90	17.66	21.17	0.64	0.57	1.40
TCP Vegas	10	49.43	41.89	60.29	5.58	5.33	1.33	0.00	0.79	0.00
Verus	10	44.58	34.42	28.47	30.09	44.84	32.37	14.77	26.44	20.97
Copa	10	48.52	39.04	31.92	4.16	5.35	4.56	0.00	5.00	0.02
FillP	10	54.43	38.80	36.14	30.57	30.63	26.62	11.22	20.48	26.98
Indigo-1-32	10	51.46	37.78	58.09	17.90	18.21	19.60	0.61	0.16	0.69
Vivace-latency	10	51.57	33.03	27.46	5.84	5.69	2.82	0.05	0.54	0.00
Vivace-loss	10	70.18	30.47	13.80	30.33	28.21	31.62	3.05	1.85	2.21
Vivace-LTE	10	61.95	40.13	16.48	30.01	30.11	37.71	0.38	0.61	2.11

Run 1: Statistics of TCP BBR

Start at: 2018-02-03 01:30:22

End at: 2018-02-03 01:30:52

Local clock offset: 0.08 ms

Remote clock offset: 0.861 ms

Below is generated by plot.py at 2018-02-03 05:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 27.130 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 70.65 Mbit/s

95th percentile per-packet one-way delay: 26.396 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 24.63 Mbit/s

95th percentile per-packet one-way delay: 27.949 ms

Loss rate: 0.10%

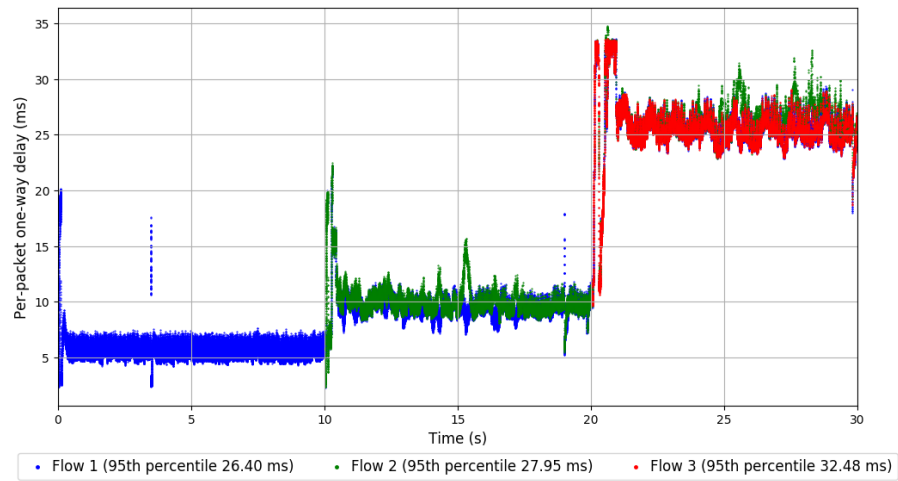
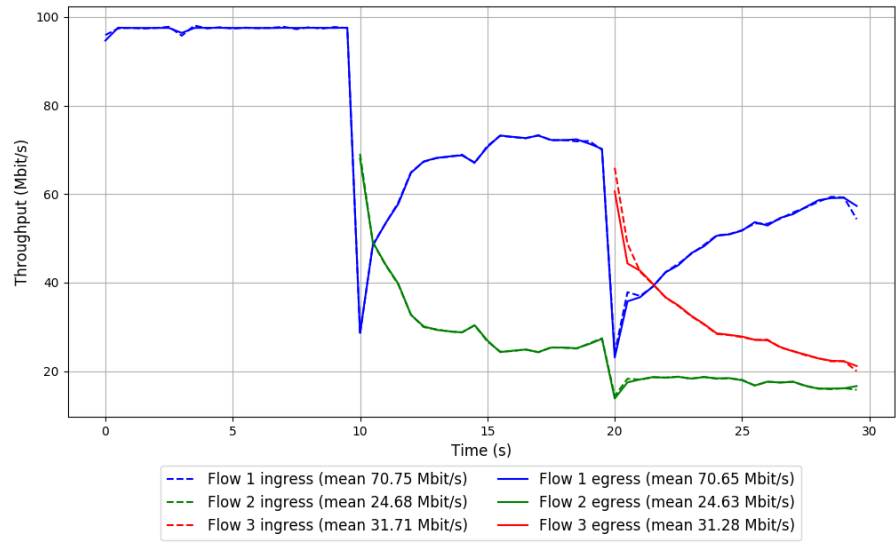
-- Flow 3:

Average throughput: 31.28 Mbit/s

95th percentile per-packet one-way delay: 32.484 ms

Loss rate: 1.19%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-03 01:50:54

End at: 2018-02-03 01:51:24

Local clock offset: 0.071 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2018-02-03 05:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.69 Mbit/s

95th percentile per-packet one-way delay: 67.155 ms

Loss rate: 4.13%

-- Flow 1:

Average throughput: 67.53 Mbit/s

95th percentile per-packet one-way delay: 69.351 ms

Loss rate: 5.41%

-- Flow 2:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 25.066 ms

Loss rate: 0.36%

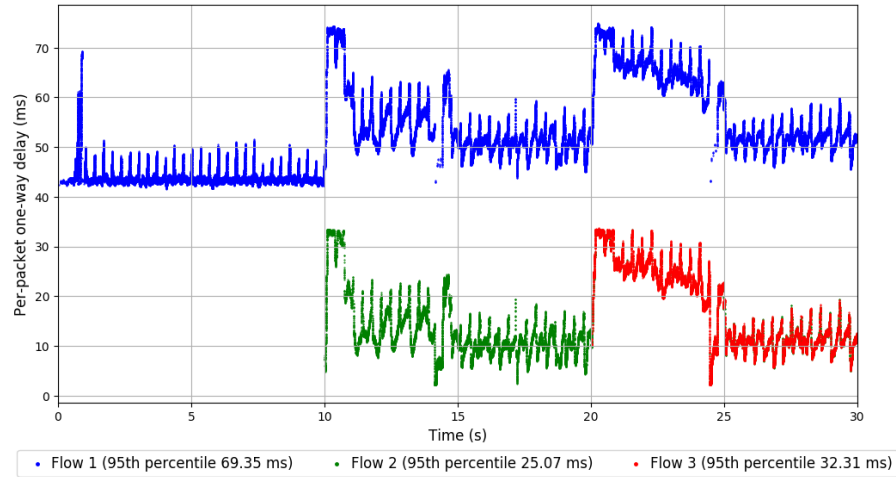
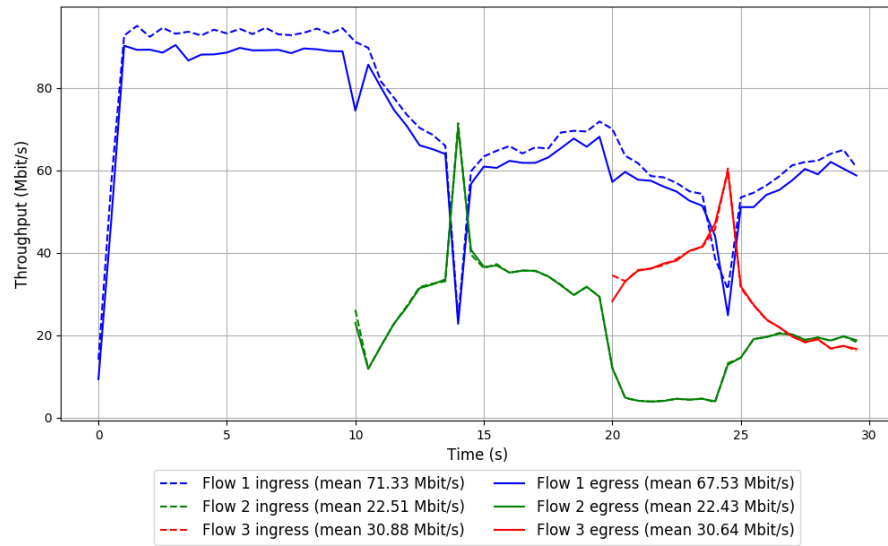
-- Flow 3:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 32.308 ms

Loss rate: 0.75%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-03 02:11:30

End at: 2018-02-03 02:12:00

Local clock offset: 0.016 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-02-03 05:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 22.081 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 21.926 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 21.473 ms

Loss rate: 0.00%

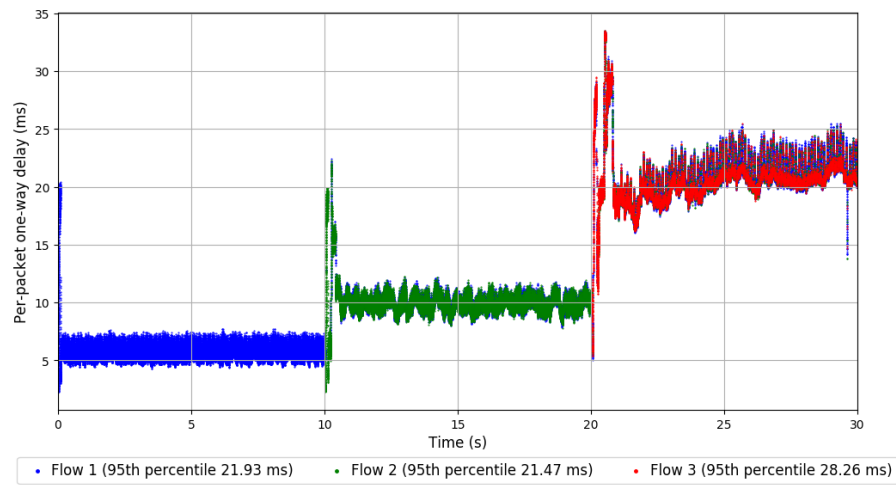
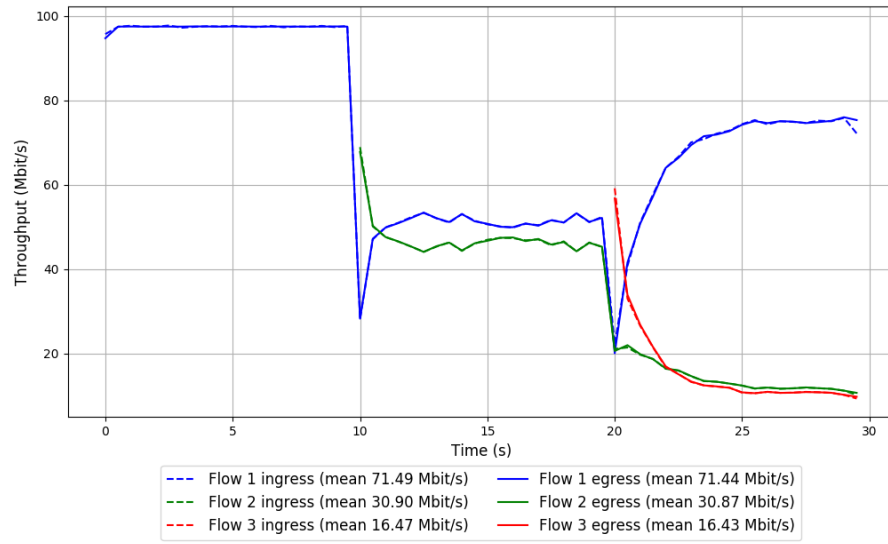
-- Flow 3:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 28.262 ms

Loss rate: 0.12%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-03 02:32:04

End at: 2018-02-03 02:32:34

Local clock offset: -0.064 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-02-03 05:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 23.335 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 61.09 Mbit/s

95th percentile per-packet one-way delay: 22.693 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 23.391 ms

Loss rate: 0.01%

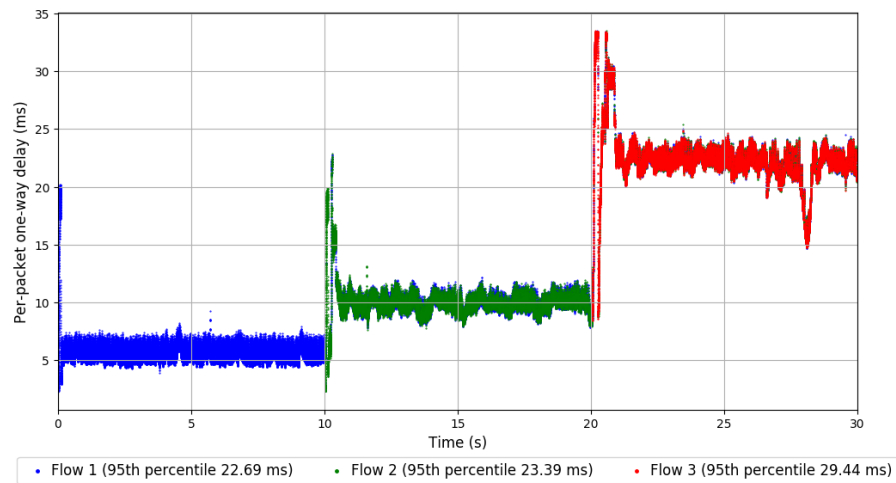
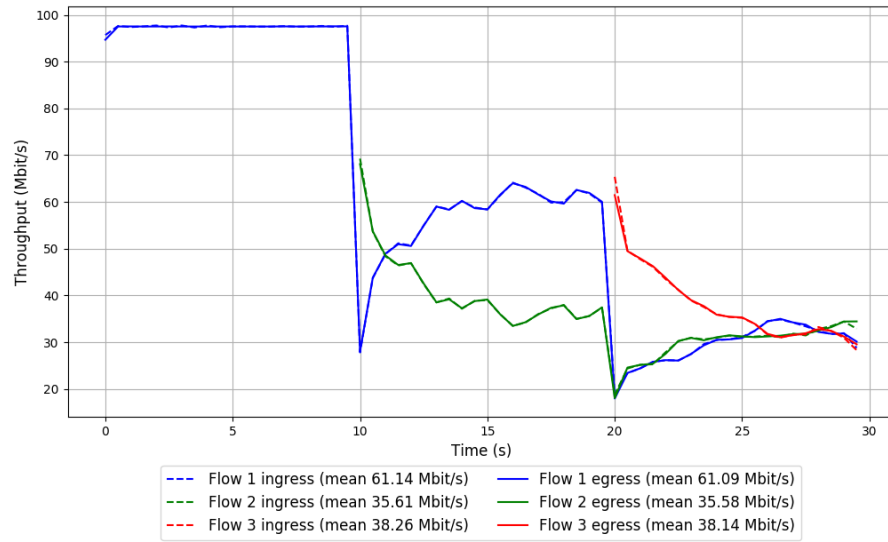
-- Flow 3:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 29.439 ms

Loss rate: 0.21%

Run 4: Report of TCP BBR — Data Link

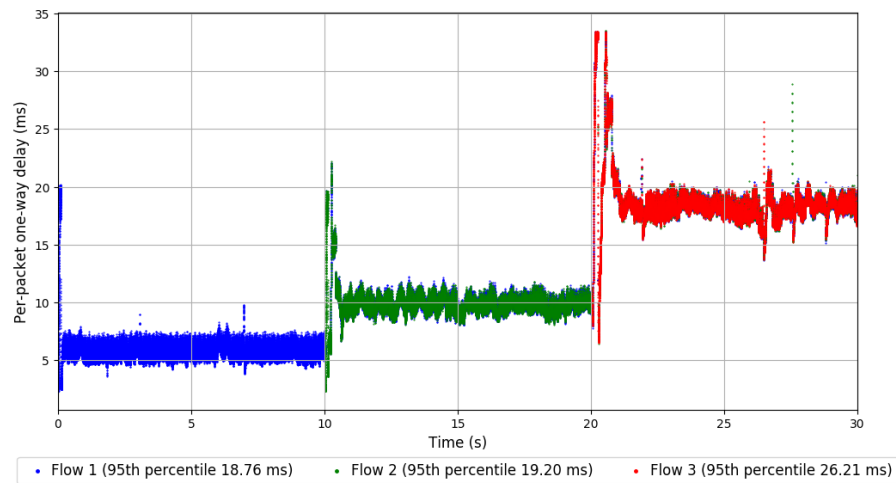
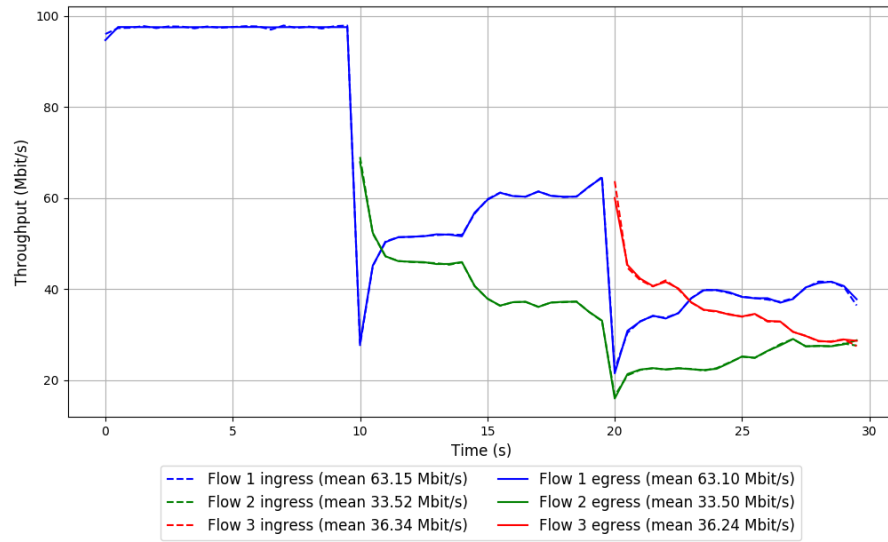


Run 5: Statistics of TCP BBR

Start at: 2018-02-03 02:52:39
End at: 2018-02-03 02:53:09
Local clock offset: -0.056 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-02-03 05:24:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 19.233 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 18.759 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 33.50 Mbit/s
95th percentile per-packet one-way delay: 19.205 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 26.209 ms
Loss rate: 0.19%

Run 5: Report of TCP BBR — Data Link

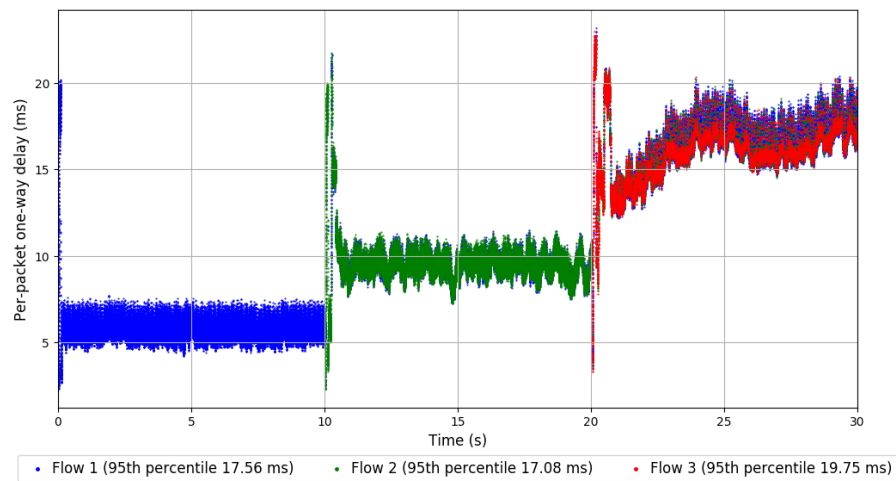
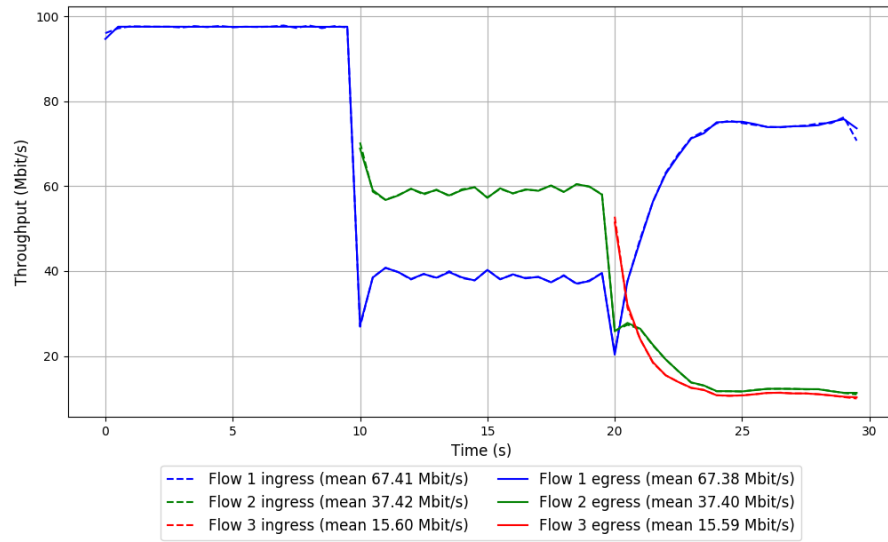


Run 6: Statistics of TCP BBR

Start at: 2018-02-03 03:13:12
End at: 2018-02-03 03:13:42
Local clock offset: -0.086 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-02-03 05:24:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 17.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.38 Mbit/s
95th percentile per-packet one-way delay: 17.564 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 17.083 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 19.753 ms
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-03 03:33:45

End at: 2018-02-03 03:34:15

Local clock offset: -0.039 ms

Remote clock offset: 0.654 ms

Below is generated by plot.py at 2018-02-03 05:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 24.750 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 24.558 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 24.349 ms

Loss rate: 0.01%

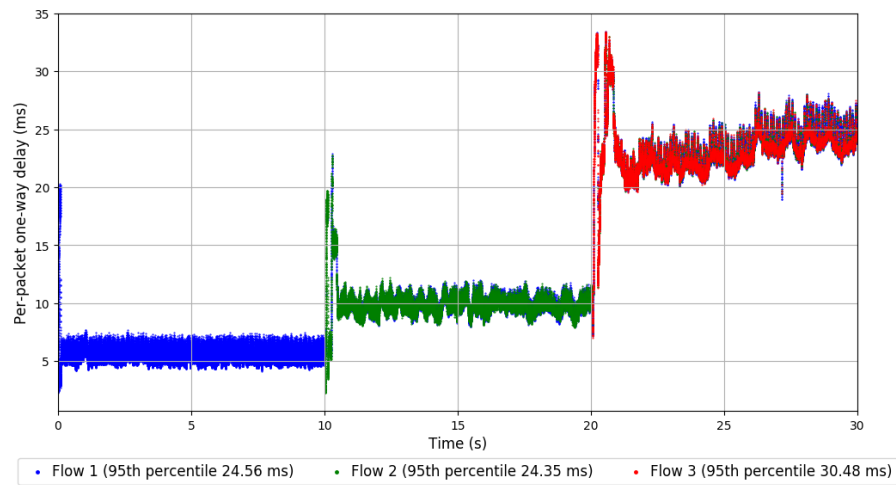
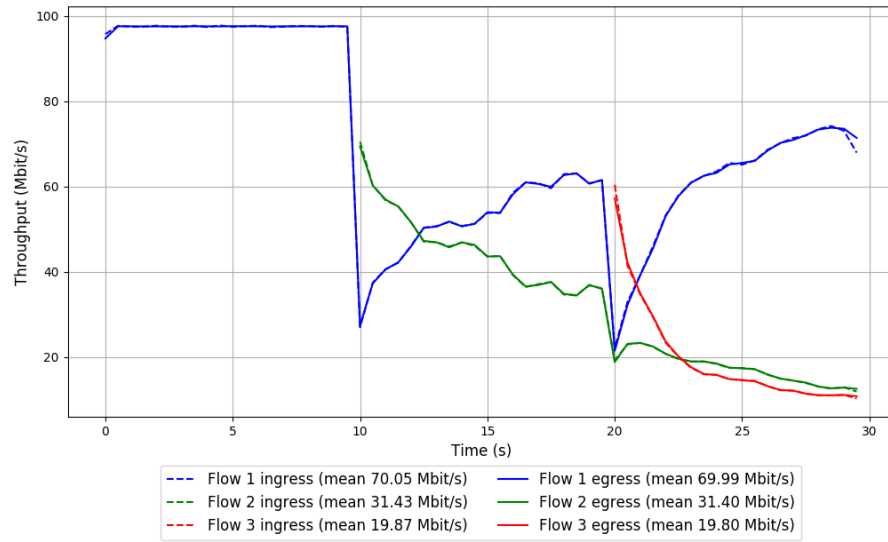
-- Flow 3:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 30.478 ms

Loss rate: 0.21%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-03 03:54:15

End at: 2018-02-03 03:54:45

Local clock offset: -0.056 ms

Remote clock offset: 2.017 ms

Below is generated by plot.py at 2018-02-03 05:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 17.594 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 17.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.48 Mbit/s

95th percentile per-packet one-way delay: 16.777 ms

Loss rate: 0.00%

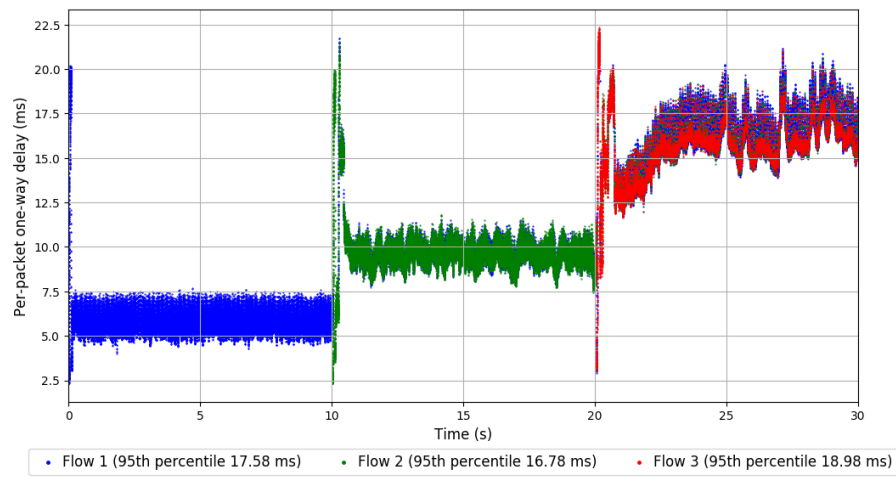
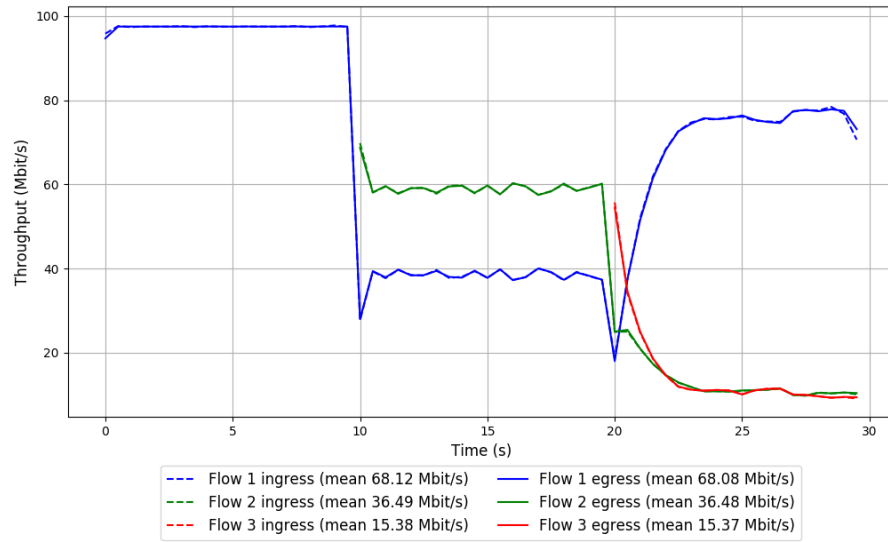
-- Flow 3:

Average throughput: 15.37 Mbit/s

95th percentile per-packet one-way delay: 18.975 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-03 04:14:49

End at: 2018-02-03 04:15:19

Local clock offset: 0.0 ms

Remote clock offset: 2.114 ms

Below is generated by plot.py at 2018-02-03 05:25:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 25.025 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 69.40 Mbit/s

95th percentile per-packet one-way delay: 24.602 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 24.948 ms

Loss rate: 0.02%

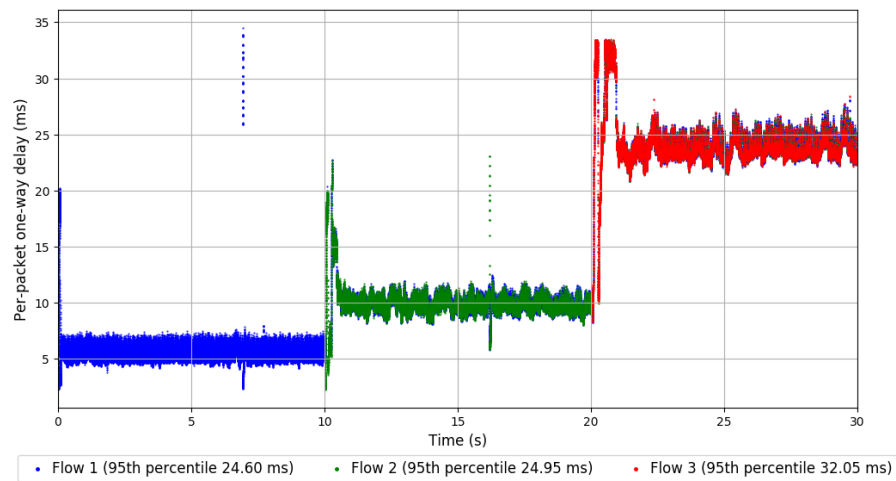
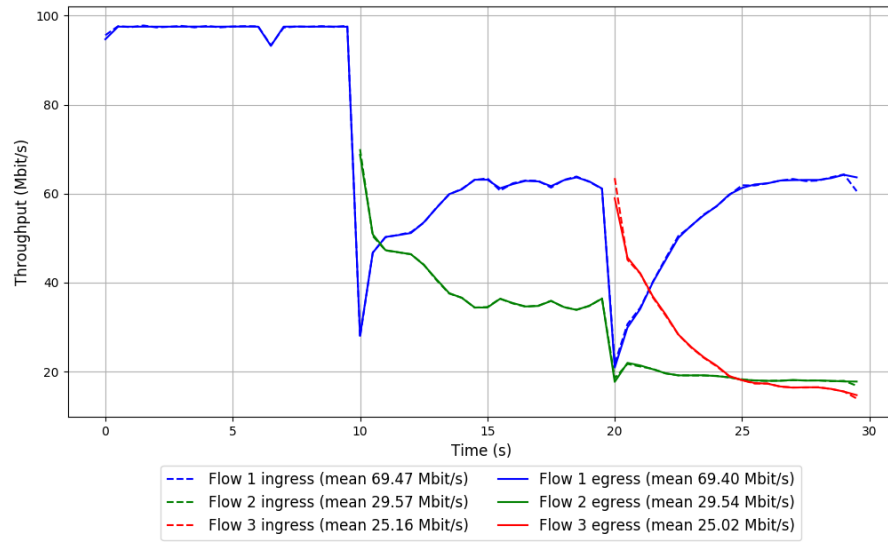
-- Flow 3:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 32.055 ms

Loss rate: 0.43%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-03 04:35:23

End at: 2018-02-03 04:35:53

Local clock offset: 0.031 ms

Remote clock offset: 2.128 ms

Below is generated by plot.py at 2018-02-03 05:25:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 18.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 18.290 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 17.836 ms

Loss rate: 0.00%

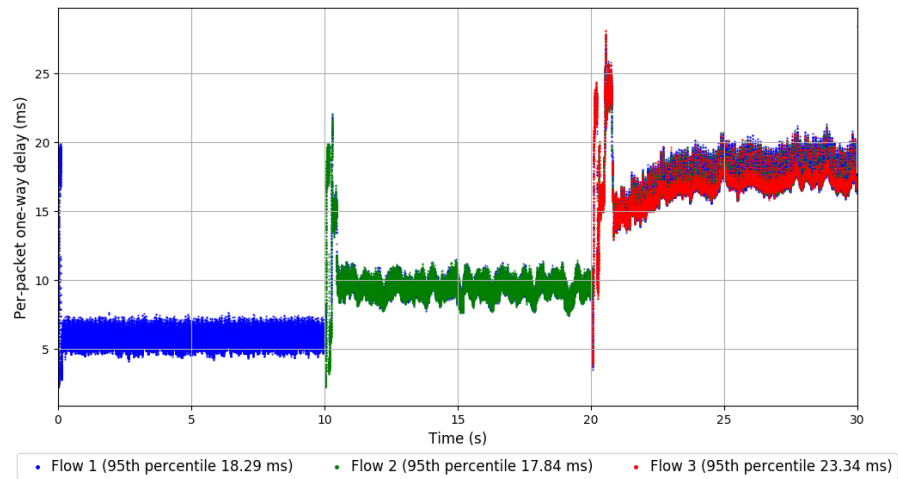
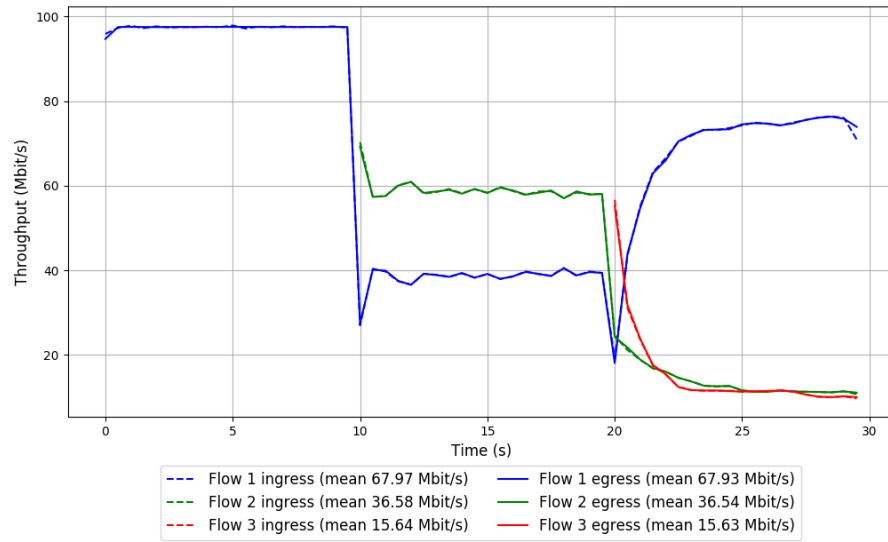
-- Flow 3:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 23.342 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-03 01:42:59

End at: 2018-02-03 01:43:29

Local clock offset: 0.107 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2018-02-03 05:25:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.704 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 61.10 Mbit/s

95th percentile per-packet one-way delay: 32.591 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.60 Mbit/s

95th percentile per-packet one-way delay: 32.885 ms

Loss rate: 0.02%

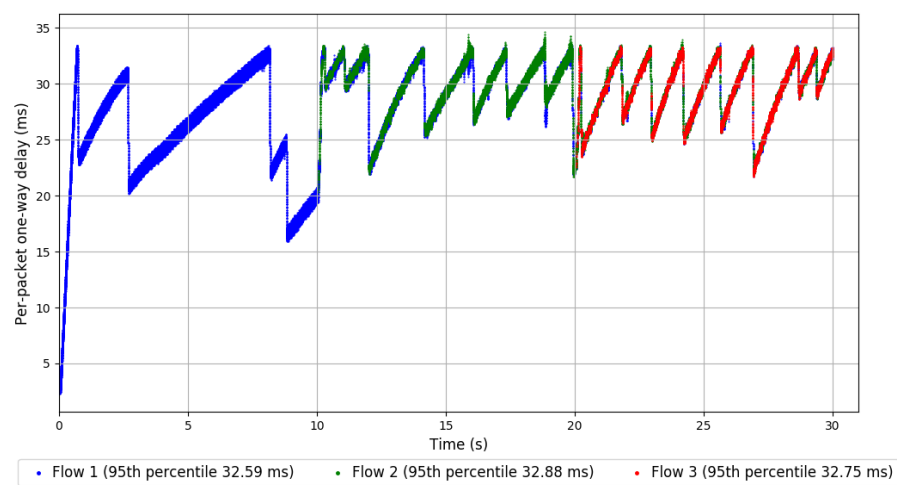
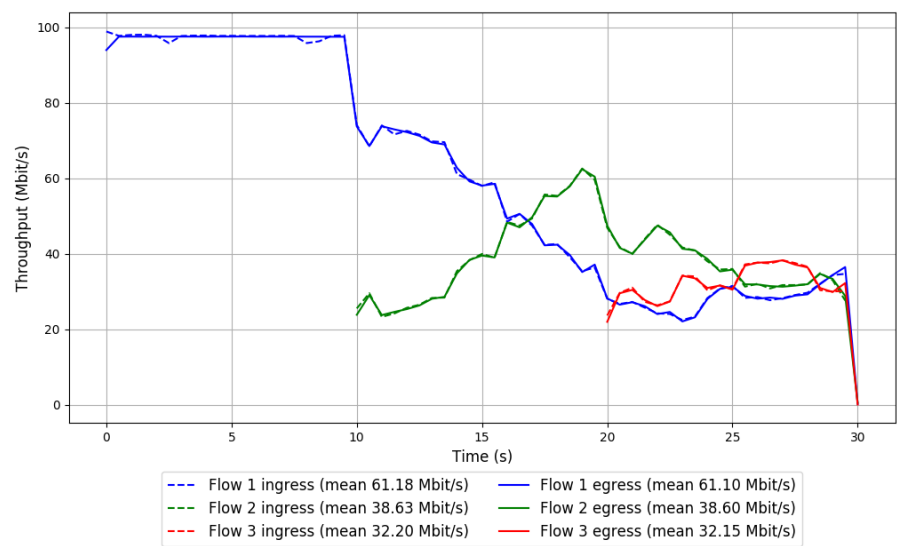
-- Flow 3:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 32.753 ms

Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-03 02:03:34

End at: 2018-02-03 02:04:04

Local clock offset: -0.055 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2018-02-03 05:25:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.793 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.90 Mbit/s

95th percentile per-packet one-way delay: 32.757 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.56 Mbit/s

95th percentile per-packet one-way delay: 32.840 ms

Loss rate: 0.08%

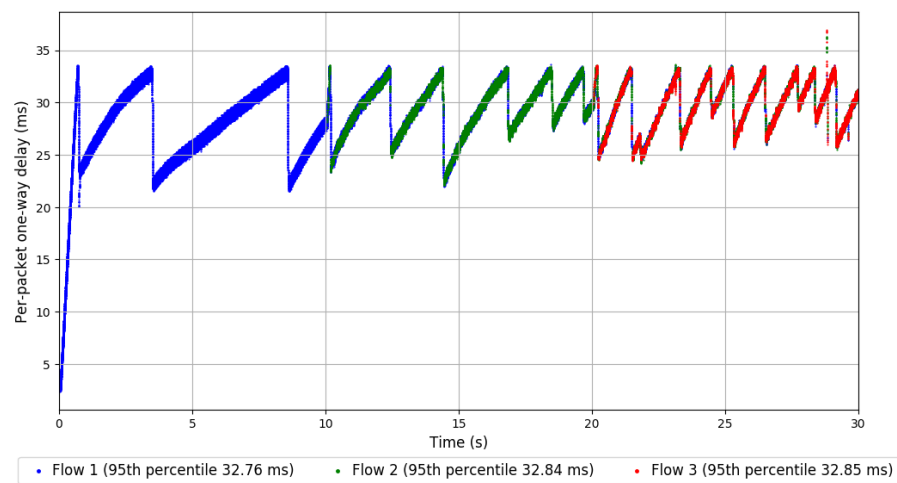
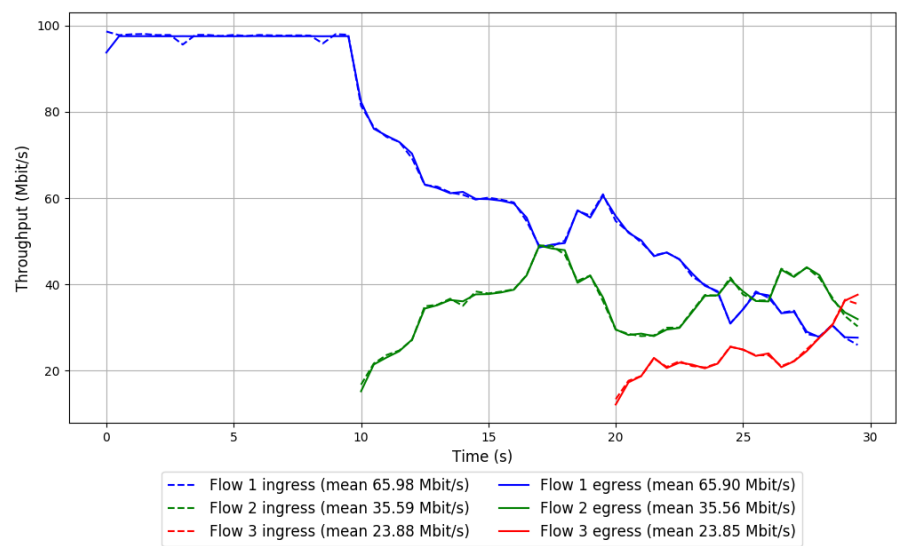
-- Flow 3:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 32.852 ms

Loss rate: 0.14%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-03 02:24:09

End at: 2018-02-03 02:24:39

Local clock offset: 0.018 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-02-03 05:25:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 32.709 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 62.23 Mbit/s

95th percentile per-packet one-way delay: 32.615 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.58 Mbit/s

95th percentile per-packet one-way delay: 32.751 ms

Loss rate: 0.08%

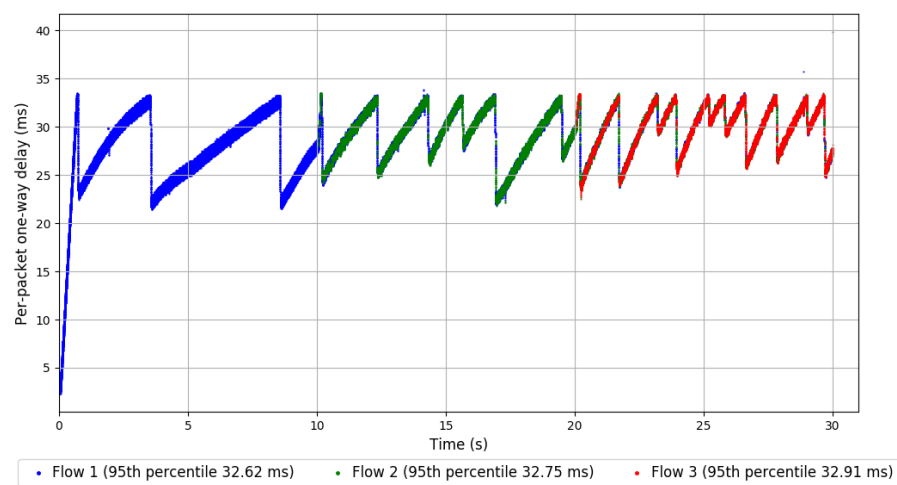
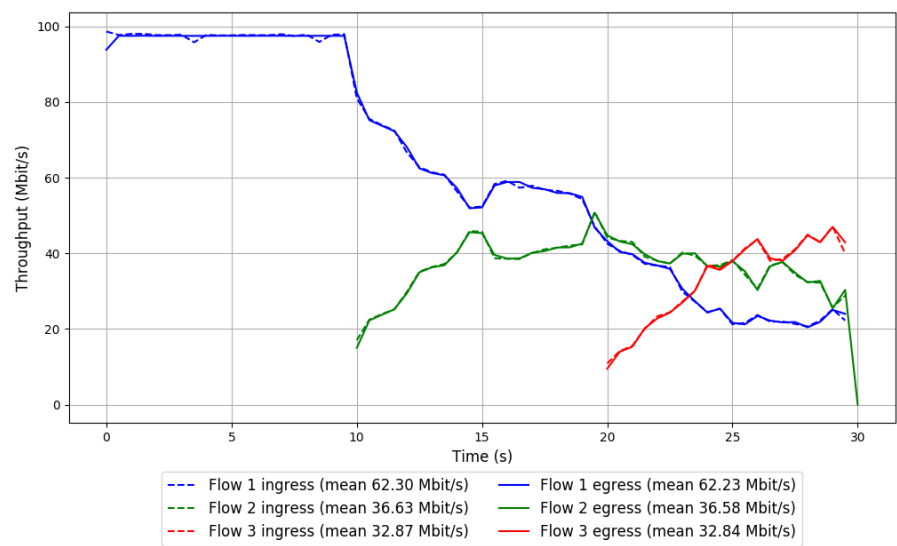
-- Flow 3:

Average throughput: 32.84 Mbit/s

95th percentile per-packet one-way delay: 32.905 ms

Loss rate: 0.11%

Run 3: Report of TCP Cubic — Data Link

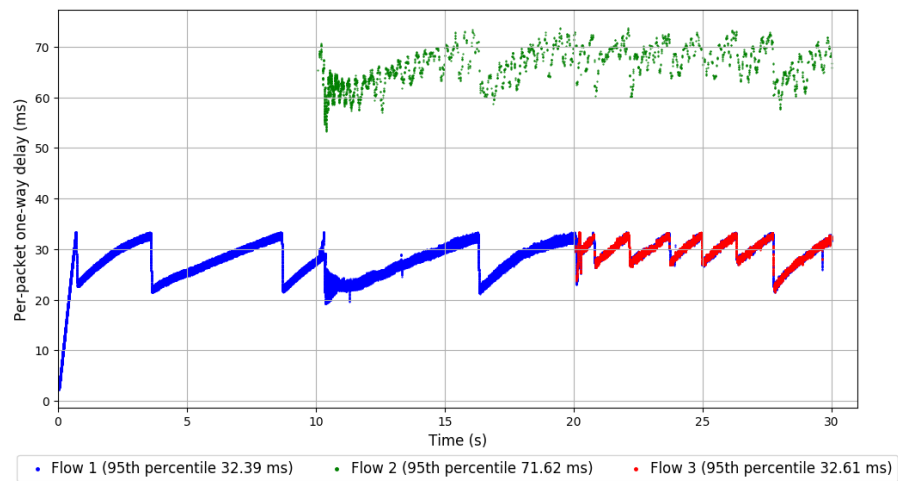
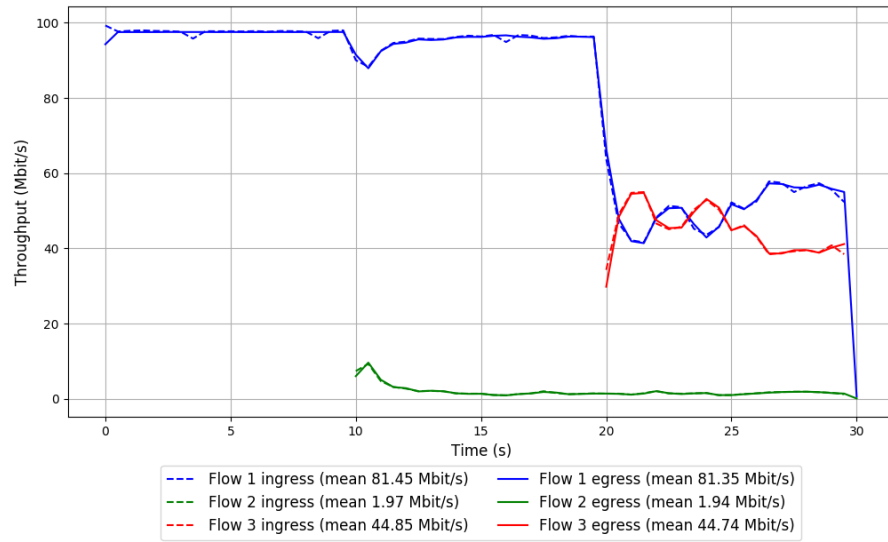


Run 4: Statistics of TCP Cubic

Start at: 2018-02-03 02:44:42
End at: 2018-02-03 02:45:12
Local clock offset: -0.039 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-02-03 05:25:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.534 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 81.35 Mbit/s
95th percentile per-packet one-way delay: 32.394 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 71.624 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 44.74 Mbit/s
95th percentile per-packet one-way delay: 32.609 ms
Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

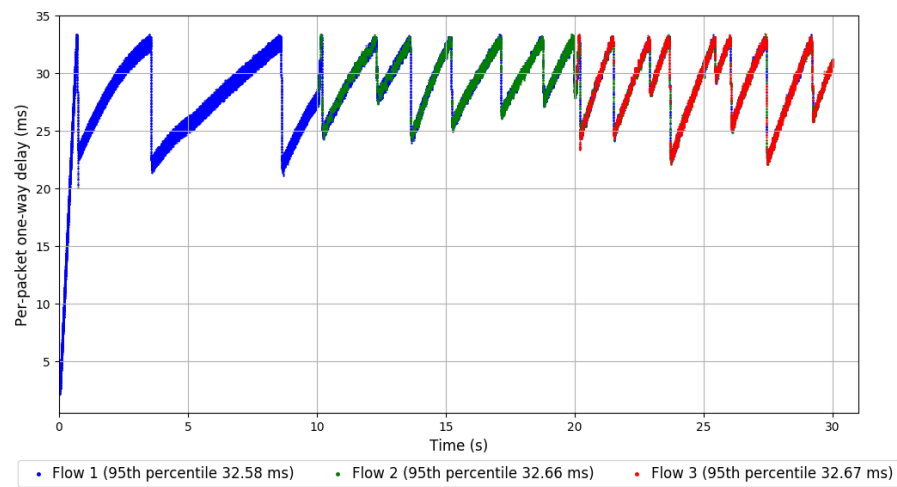
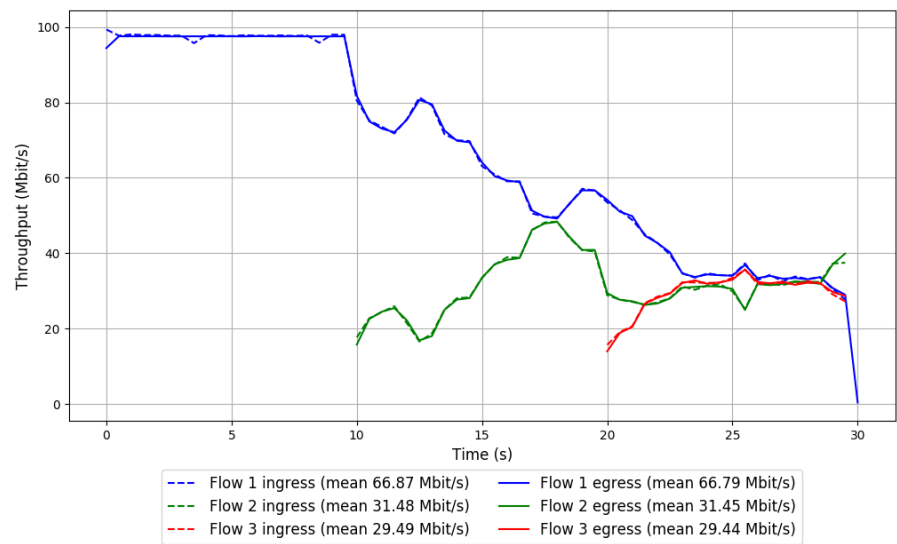


Run 5: Statistics of TCP Cubic

Start at: 2018-02-03 03:05:15
End at: 2018-02-03 03:05:45
Local clock offset: -0.027 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-02-03 05:25:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.619 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 66.79 Mbit/s
95th percentile per-packet one-way delay: 32.579 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 32.656 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 29.44 Mbit/s
95th percentile per-packet one-way delay: 32.668 ms
Loss rate: 0.13%

Run 5: Report of TCP Cubic — Data Link

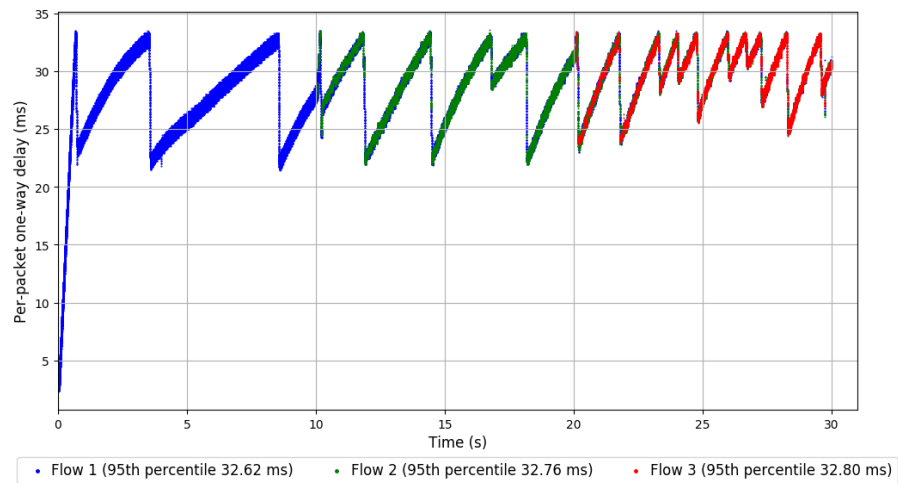
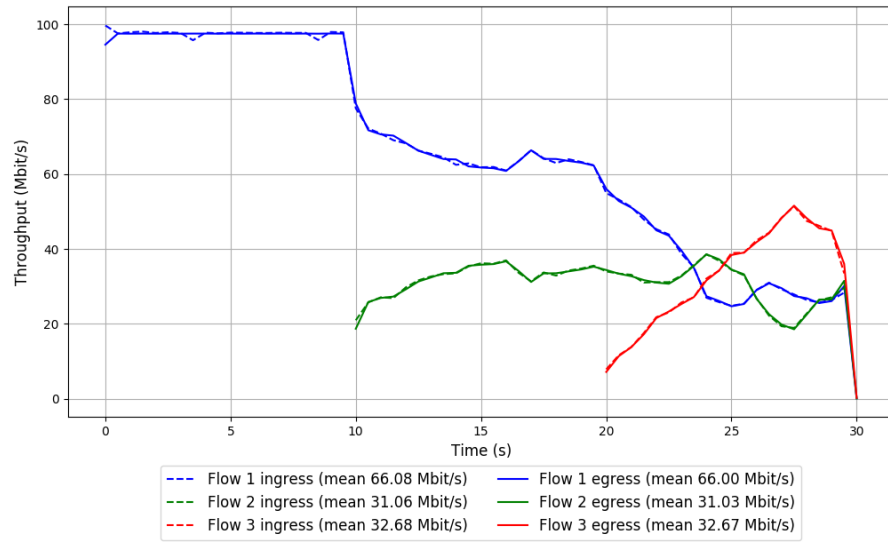


Run 6: Statistics of TCP Cubic

Start at: 2018-02-03 03:25:51
End at: 2018-02-03 03:26:21
Local clock offset: -0.101 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-02-03 05:25:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 32.713 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 32.623 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 32.760 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 32.798 ms
Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-03 03:46:21

End at: 2018-02-03 03:46:51

Local clock offset: -0.03 ms

Remote clock offset: 1.484 ms

Below is generated by plot.py at 2018-02-03 05:27:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 46.381 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 48.606 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 32.089 ms

Loss rate: 0.11%

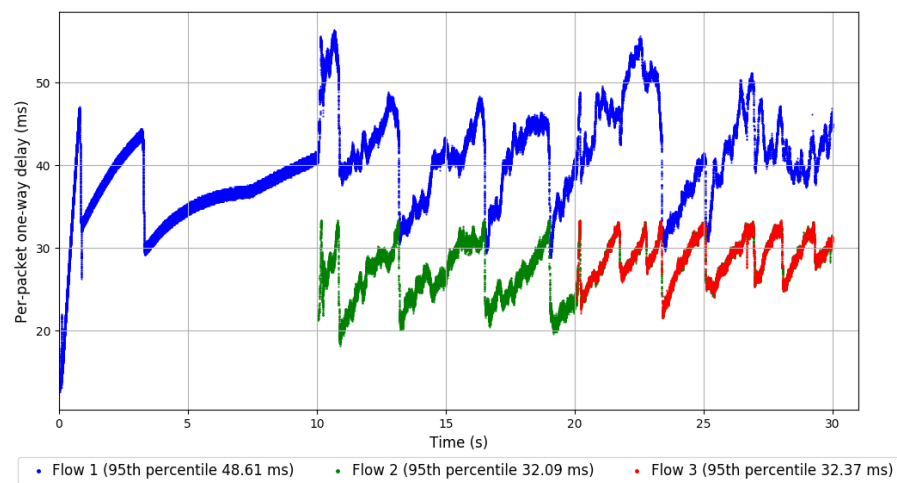
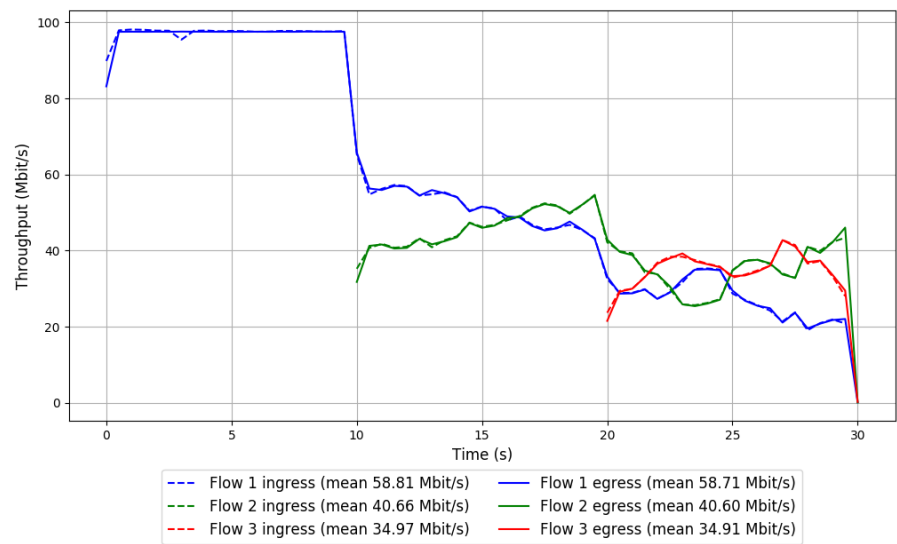
-- Flow 3:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 32.366 ms

Loss rate: 0.11%

Run 7: Report of TCP Cubic — Data Link

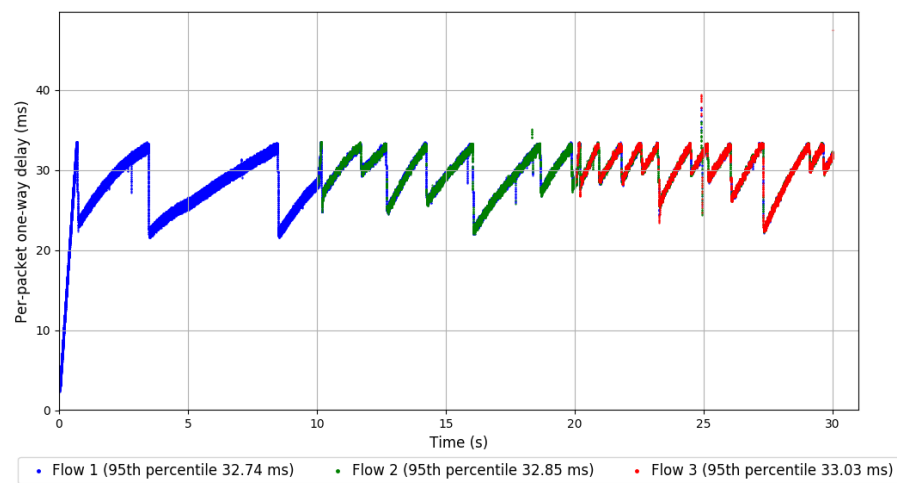
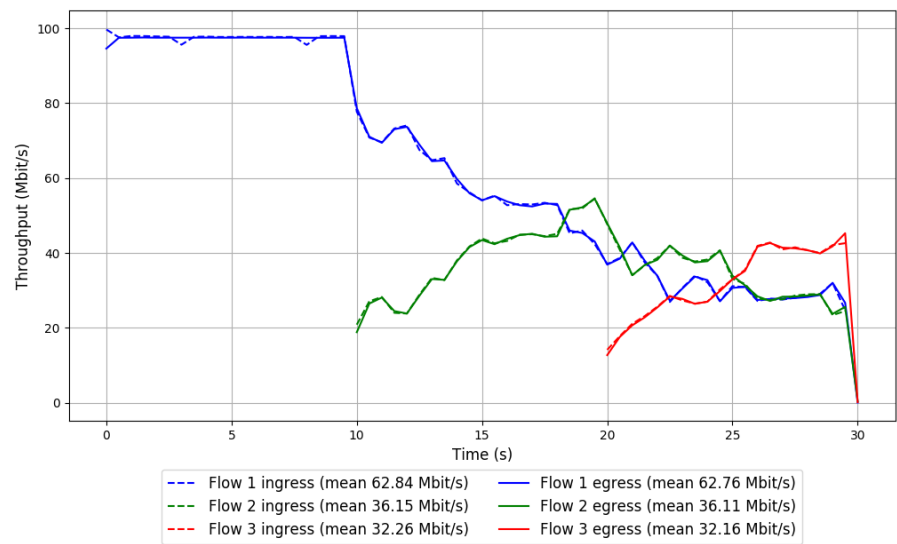


Run 8: Statistics of TCP Cubic

Start at: 2018-02-03 04:06:54
End at: 2018-02-03 04:07:24
Local clock offset: -0.063 ms
Remote clock offset: 2.096 ms

Below is generated by plot.py at 2018-02-03 05:27:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 32.810 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 32.744 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 32.854 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 33.034 ms
Loss rate: 0.12%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-03 04:27:27

End at: 2018-02-03 04:27:57

Local clock offset: 0.023 ms

Remote clock offset: 2.213 ms

Below is generated by plot.py at 2018-02-03 05:27:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.672 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 32.500 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 35.59 Mbit/s

95th percentile per-packet one-way delay: 32.744 ms

Loss rate: 0.06%

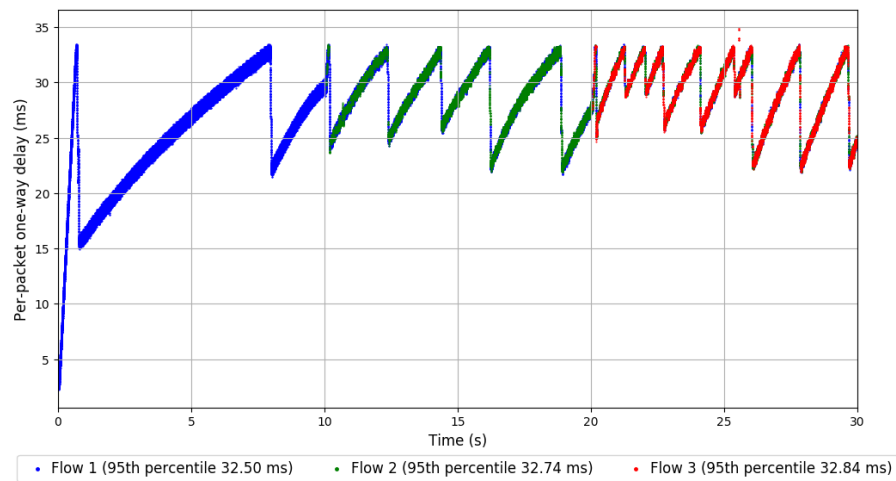
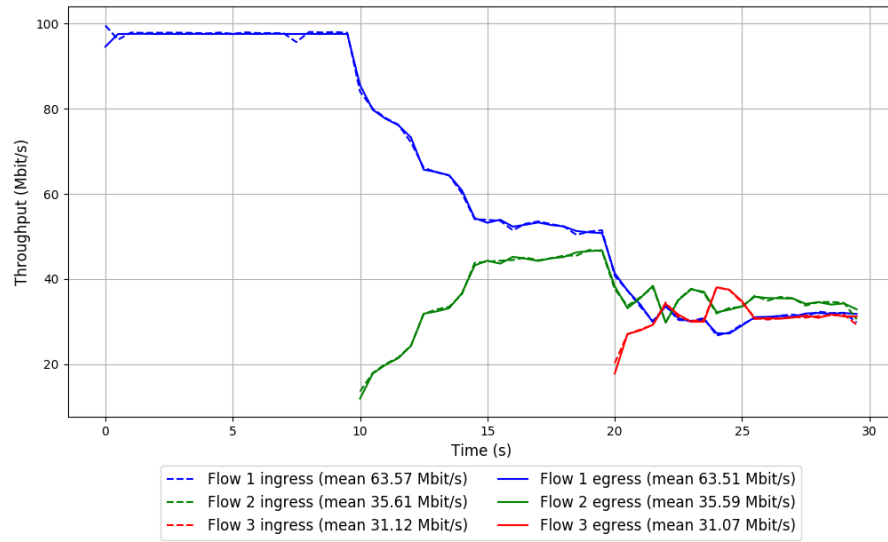
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 32.844 ms

Loss rate: 0.16%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-03 04:48:02

End at: 2018-02-03 04:48:32

Local clock offset: 0.039 ms

Remote clock offset: 2.098 ms

Below is generated by plot.py at 2018-02-03 05:27:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.625 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 64.56 Mbit/s

95th percentile per-packet one-way delay: 32.543 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 32.654 ms

Loss rate: 0.07%

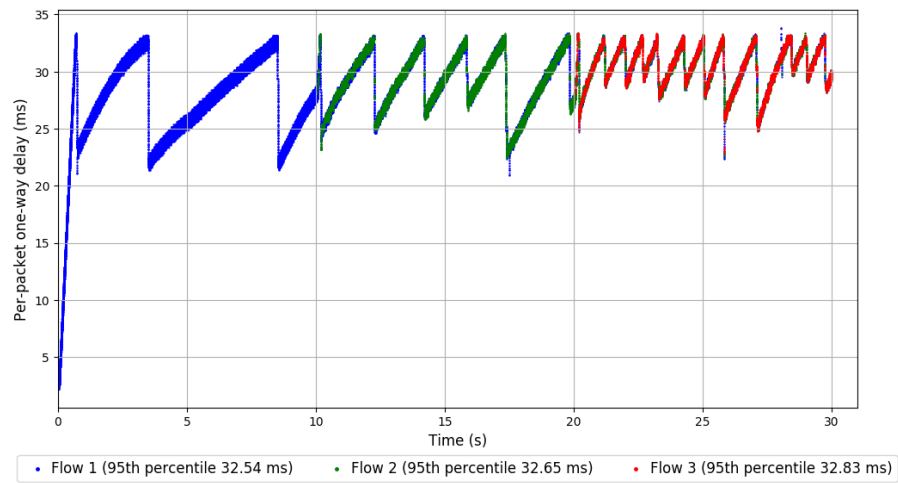
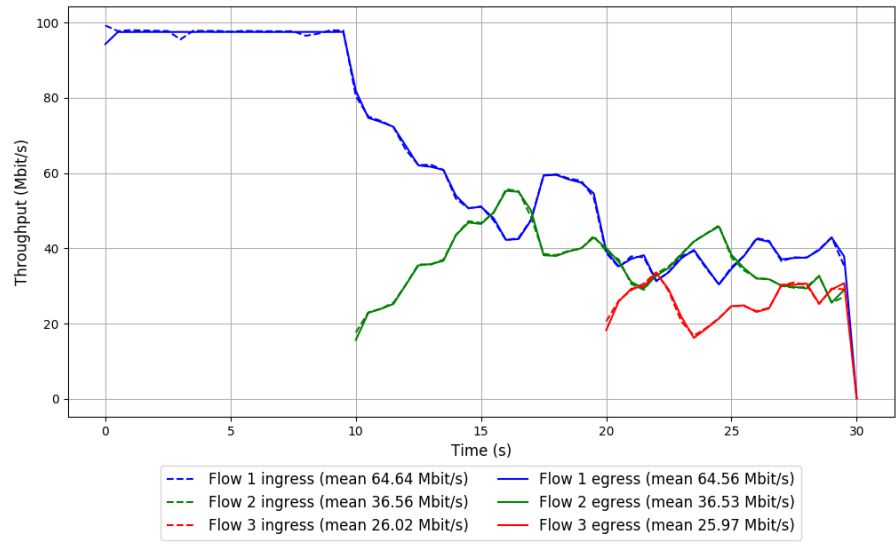
-- Flow 3:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 32.825 ms

Loss rate: 0.19%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

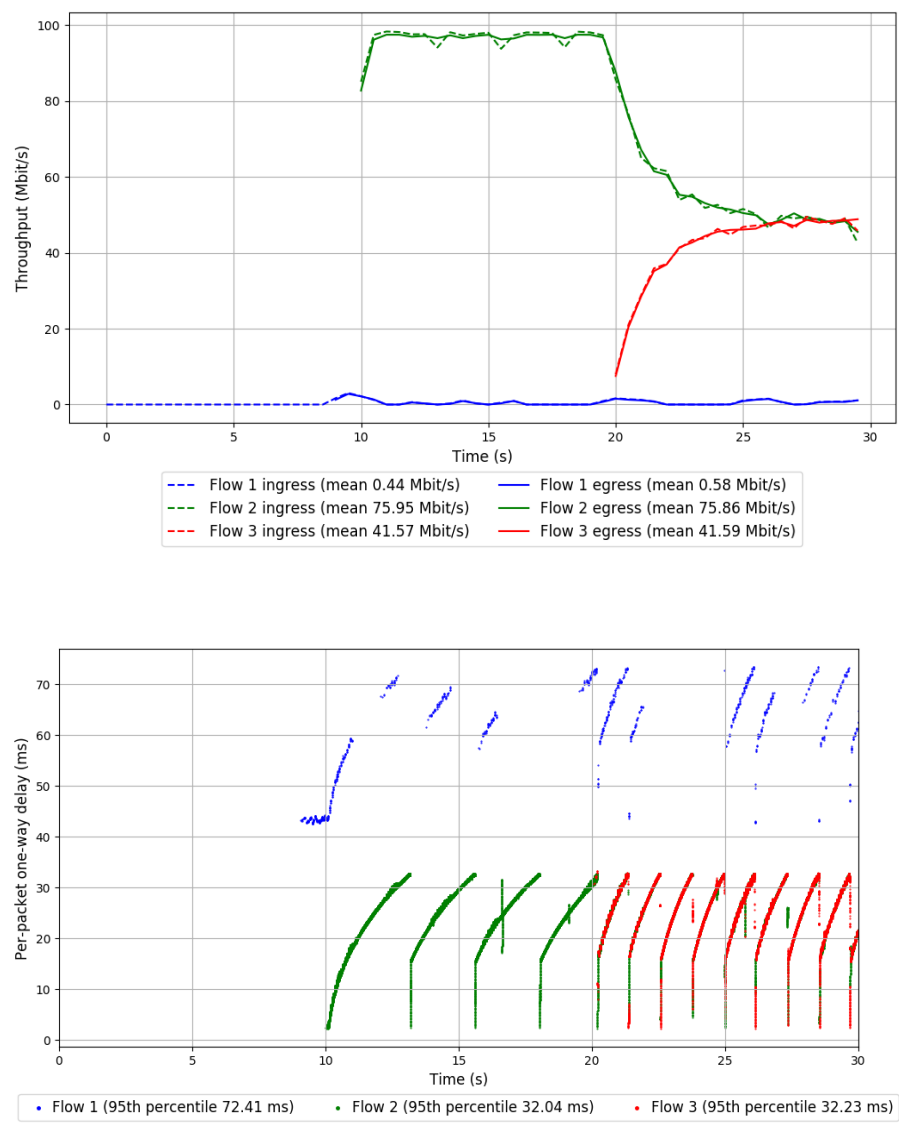
Start at: 2018-02-03 01:41:51

End at: 2018-02-03 01:42:21

Local clock offset: 0.077 ms

Remote clock offset: 0.753 ms

Run 1: Report of LEDBAT — Data Link

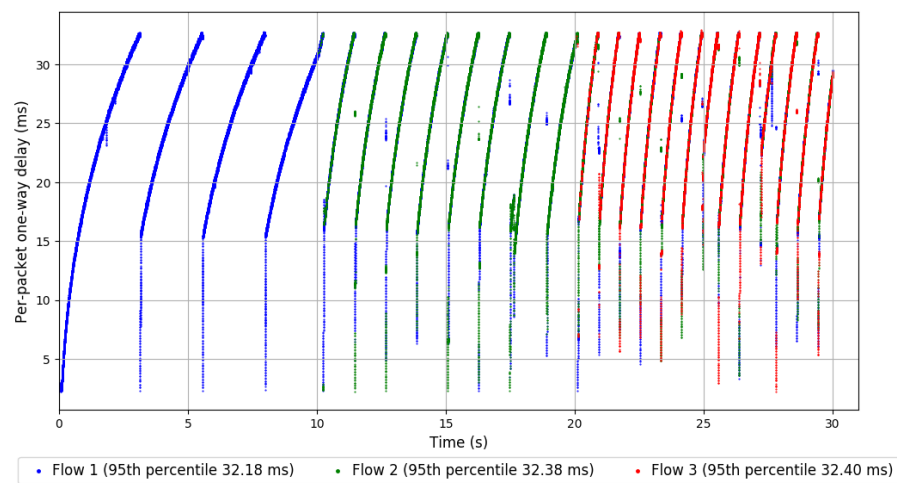
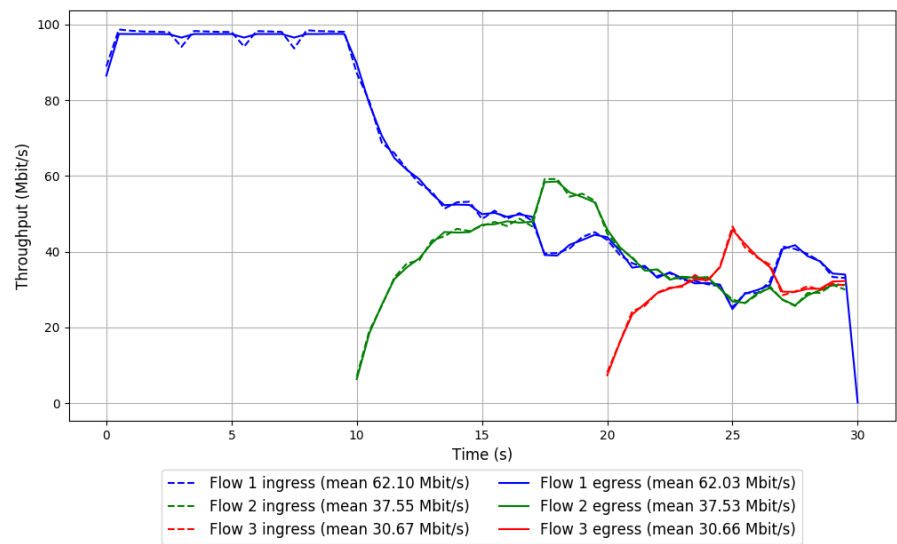


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-03 02:02:25
End at: 2018-02-03 02:02:55
Local clock offset: 0.052 ms
Remote clock offset: 0.459 ms

# Below is generated by plot.py at 2018-02-03 05:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 32.224 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.03 Mbit/s
95th percentile per-packet one-way delay: 32.181 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 32.383 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 32.404 ms
Loss rate: 0.06%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-03 02:22:59

End at: 2018-02-03 02:23:29

Local clock offset: -0.019 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2018-02-03 05:27:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 32.260 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.45 Mbit/s

95th percentile per-packet one-way delay: 32.230 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 32.431 ms

Loss rate: 0.06%

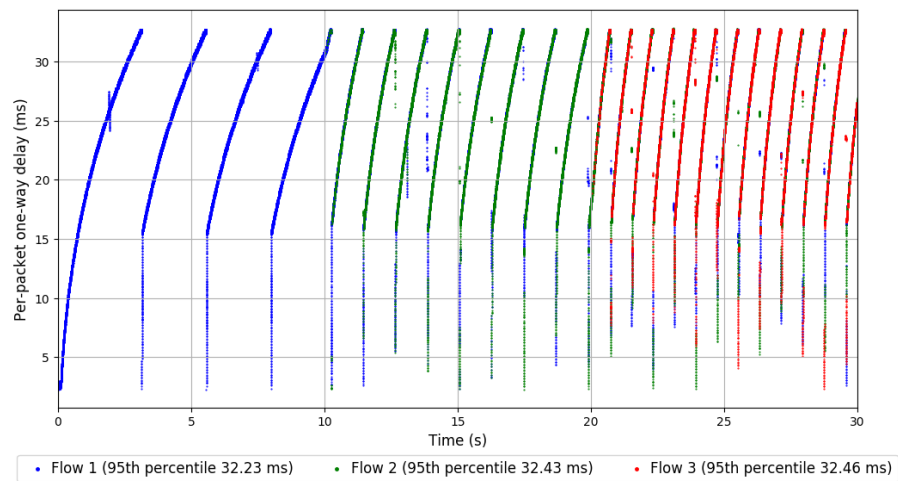
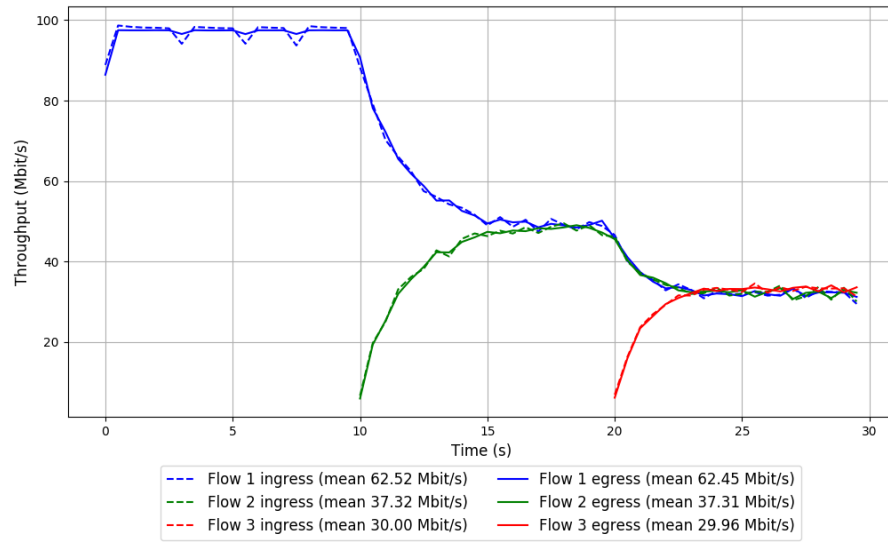
-- Flow 3:

Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 32.458 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link

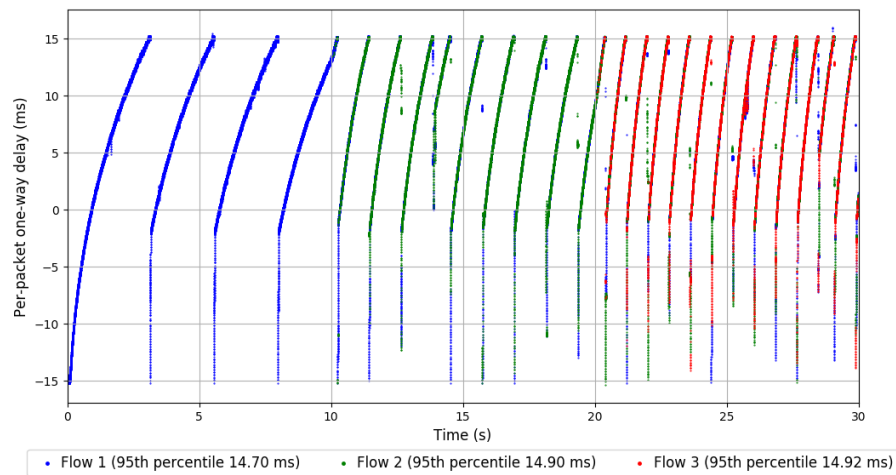
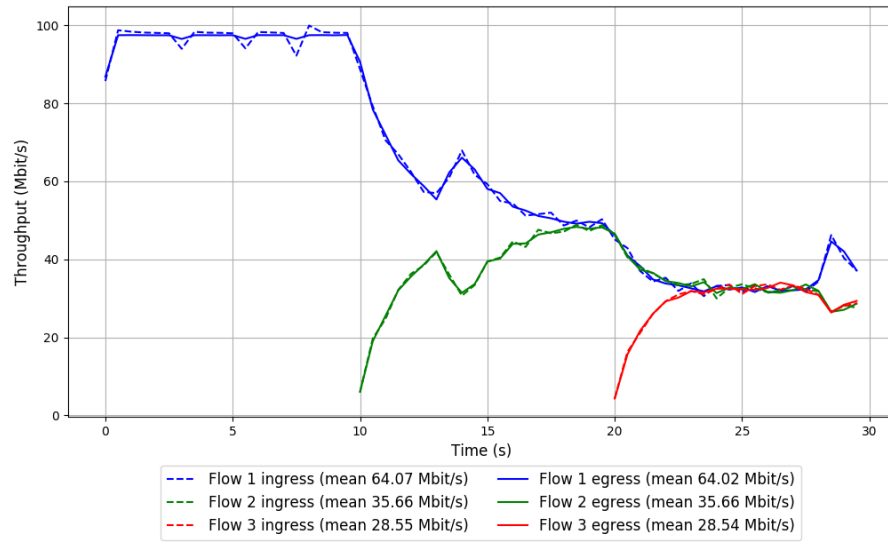


Run 4: Statistics of LEDBAT

Start at: 2018-02-03 02:43:33
End at: 2018-02-03 02:44:03
Local clock offset: -0.039 ms
Remote clock offset: -17.602 ms

Below is generated by plot.py at 2018-02-03 05:27:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 14.735 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 14.695 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 14.905 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 28.54 Mbit/s
95th percentile per-packet one-way delay: 14.924 ms
Loss rate: 0.11%

Run 4: Report of LEDBAT — Data Link

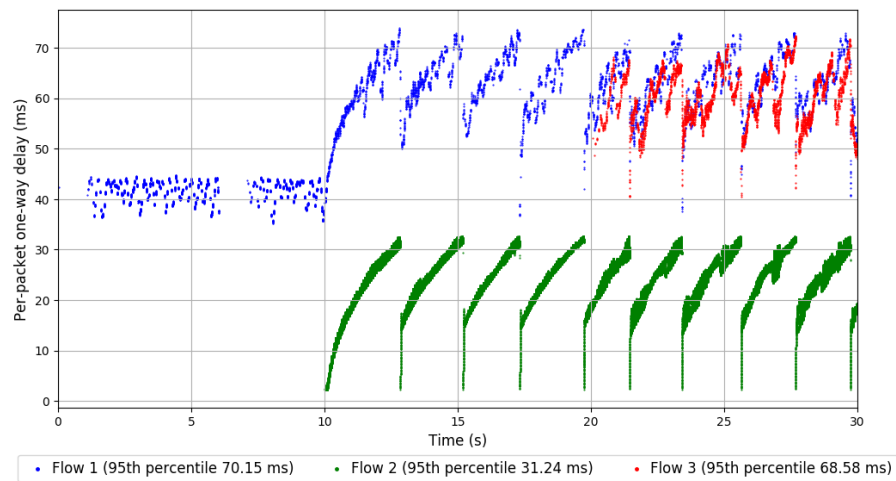
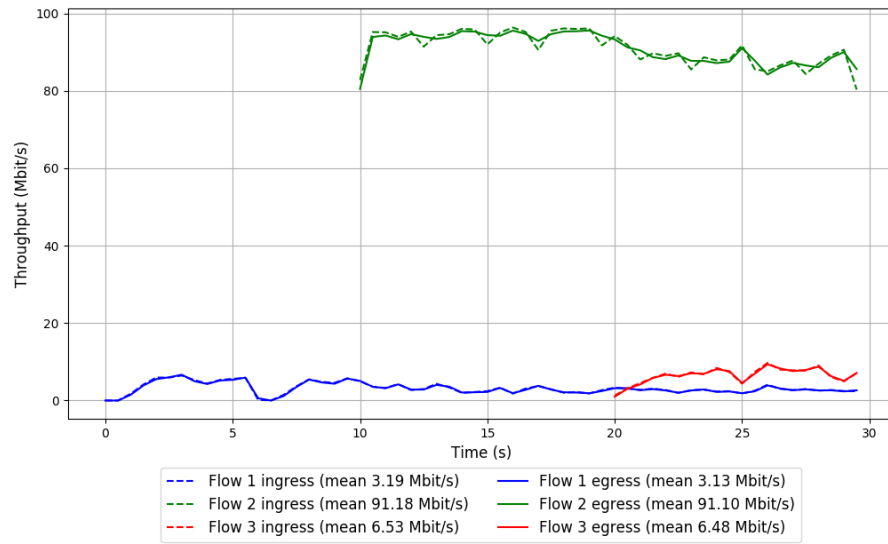


Run 5: Statistics of LEDBAT

Start at: 2018-02-03 03:04:07
End at: 2018-02-03 03:04:37
Local clock offset: -0.015 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-02-03 05:27:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.04 Mbit/s
95th percentile per-packet one-way delay: 55.672 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 70.151 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 91.10 Mbit/s
95th percentile per-packet one-way delay: 31.244 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 68.584 ms
Loss rate: 0.94%

Run 5: Report of LEDBAT — Data Link

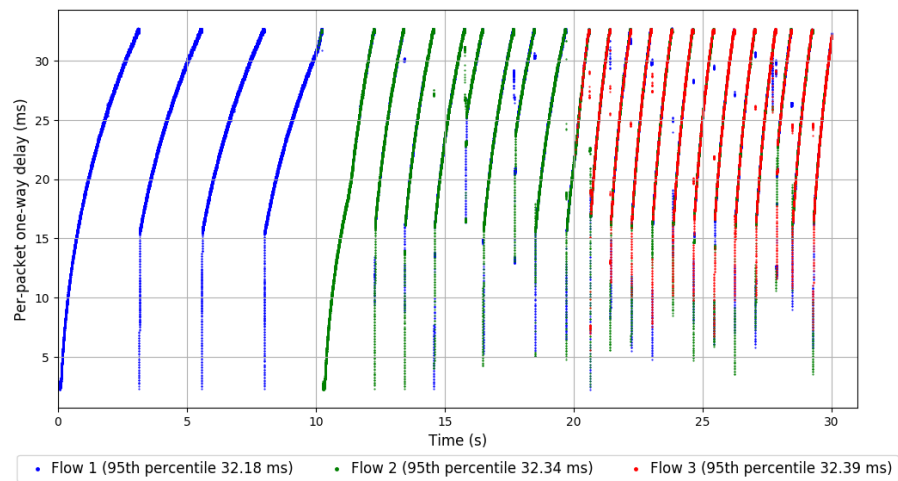
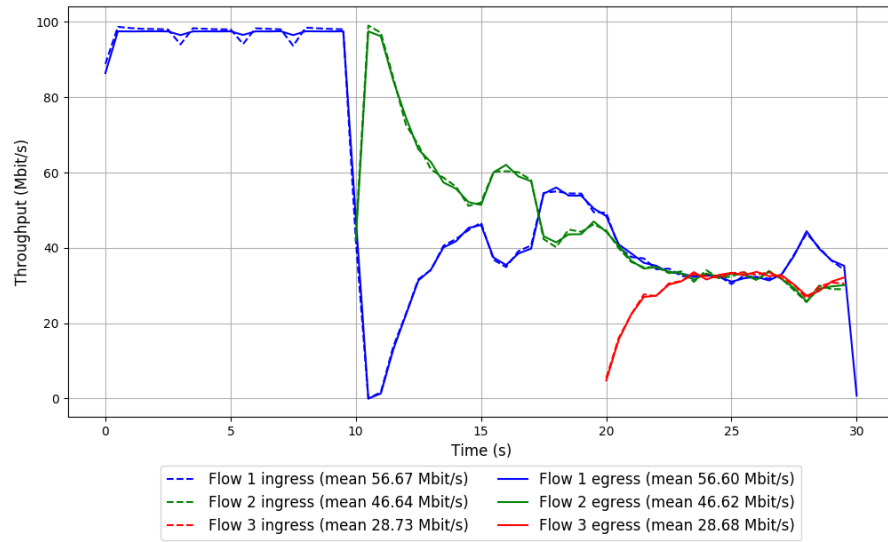


Run 6: Statistics of LEDBAT

Start at: 2018-02-03 03:24:41
End at: 2018-02-03 03:25:11
Local clock offset: -0.039 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-02-03 05:28:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 32.209 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 56.60 Mbit/s
95th percentile per-packet one-way delay: 32.182 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 32.345 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 32.386 ms
Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-03 03:45:11

End at: 2018-02-03 03:45:41

Local clock offset: -0.037 ms

Remote clock offset: 1.482 ms

Below is generated by plot.py at 2018-02-03 05:28:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 32.226 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 32.195 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 32.377 ms

Loss rate: 0.05%

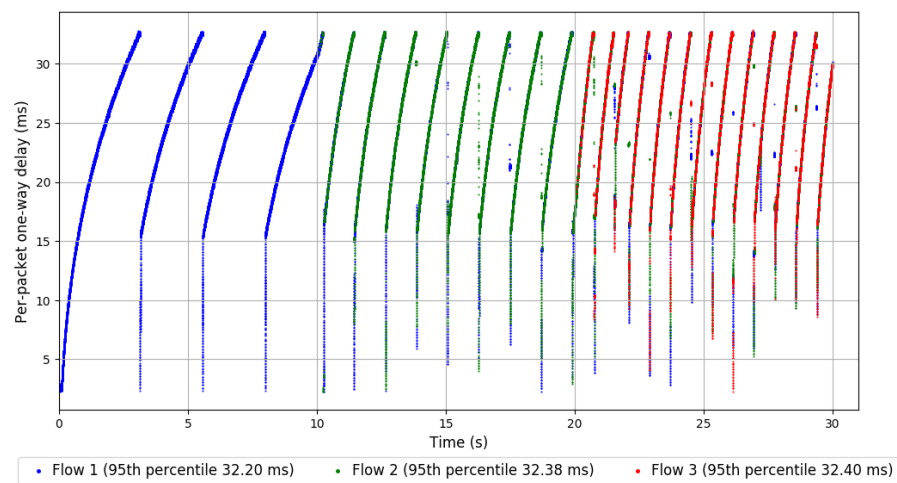
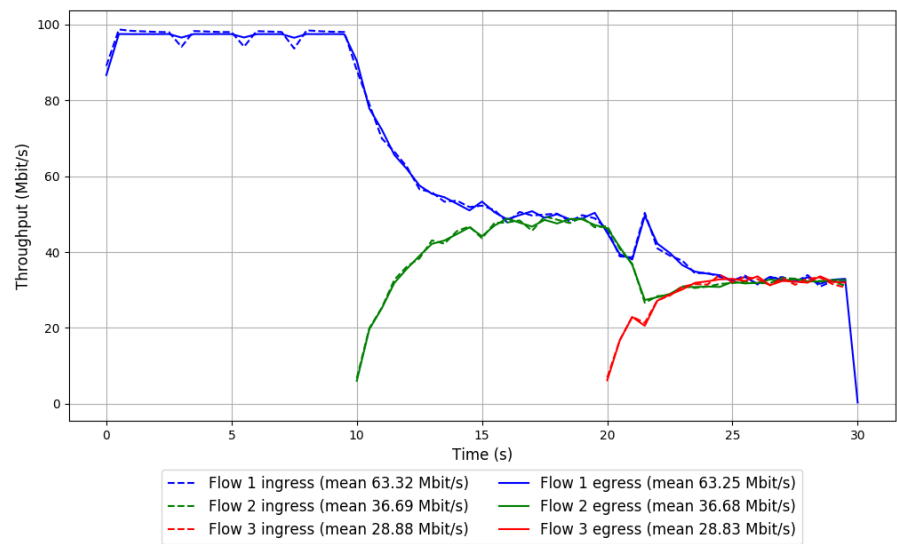
-- Flow 3:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 32.400 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-03 04:05:44

End at: 2018-02-03 04:06:14

Local clock offset: 0.003 ms

Remote clock offset: 2.015 ms

Below is generated by plot.py at 2018-02-03 05:28:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 32.199 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 32.155 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 32.364 ms

Loss rate: 0.07%

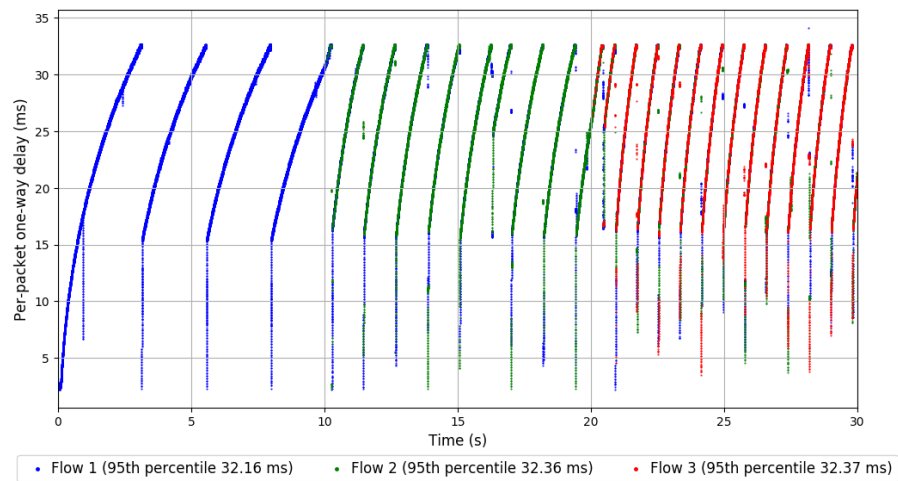
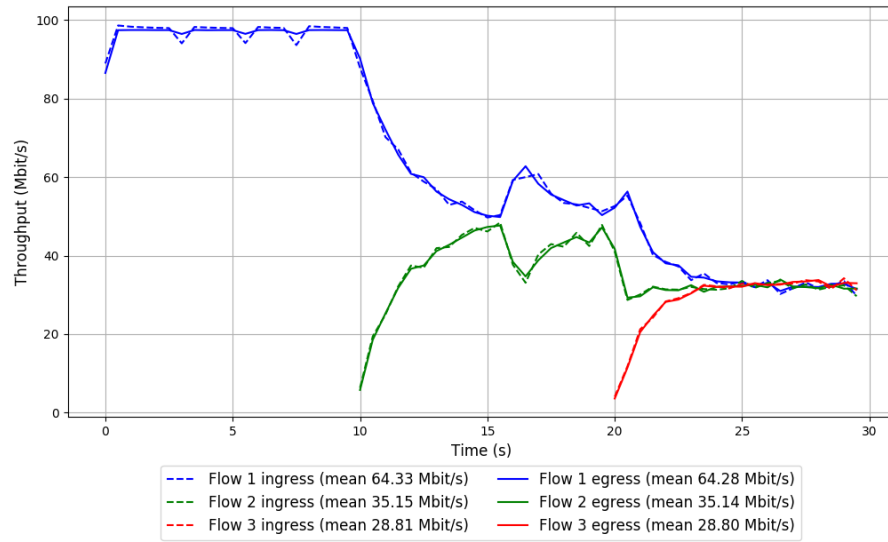
-- Flow 3:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 32.369 ms

Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-03 04:26:18

End at: 2018-02-03 04:26:48

Local clock offset: 0.007 ms

Remote clock offset: 2.213 ms

Below is generated by plot.py at 2018-02-03 05:28:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.22 Mbit/s

95th percentile per-packet one-way delay: 32.287 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.02 Mbit/s

95th percentile per-packet one-way delay: 32.247 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 32.452 ms

Loss rate: 0.06%

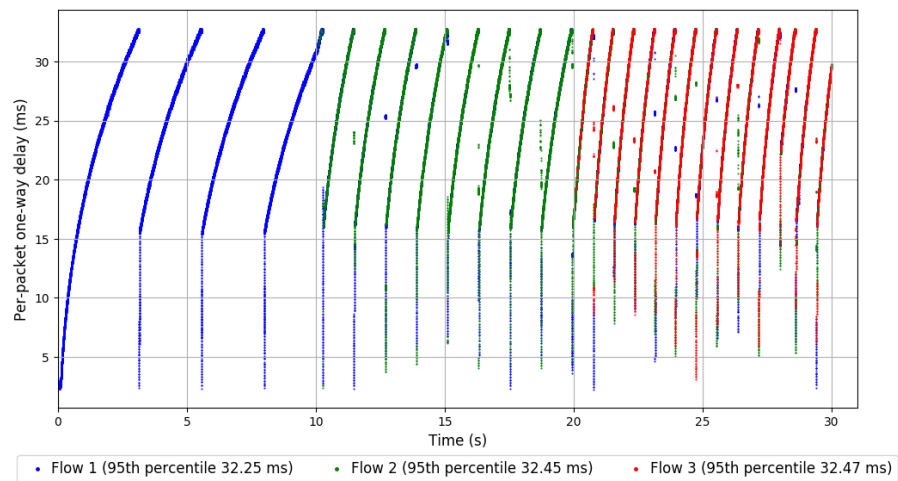
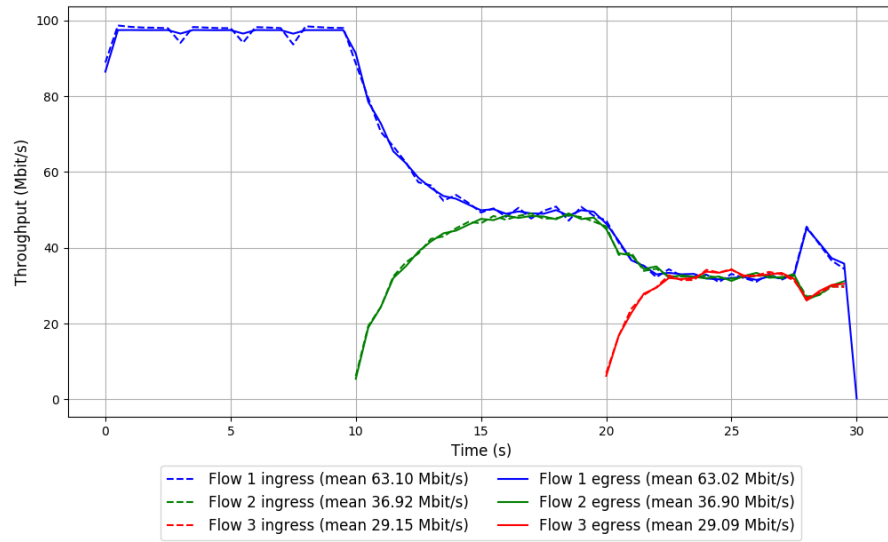
-- Flow 3:

Average throughput: 29.09 Mbit/s

95th percentile per-packet one-way delay: 32.473 ms

Loss rate: 0.09%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-03 04:46:52

End at: 2018-02-03 04:47:22

Local clock offset: 0.025 ms

Remote clock offset: 2.178 ms

Below is generated by plot.py at 2018-02-03 05:28:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 32.265 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.36 Mbit/s

95th percentile per-packet one-way delay: 32.237 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.28 Mbit/s

95th percentile per-packet one-way delay: 32.424 ms

Loss rate: 0.06%

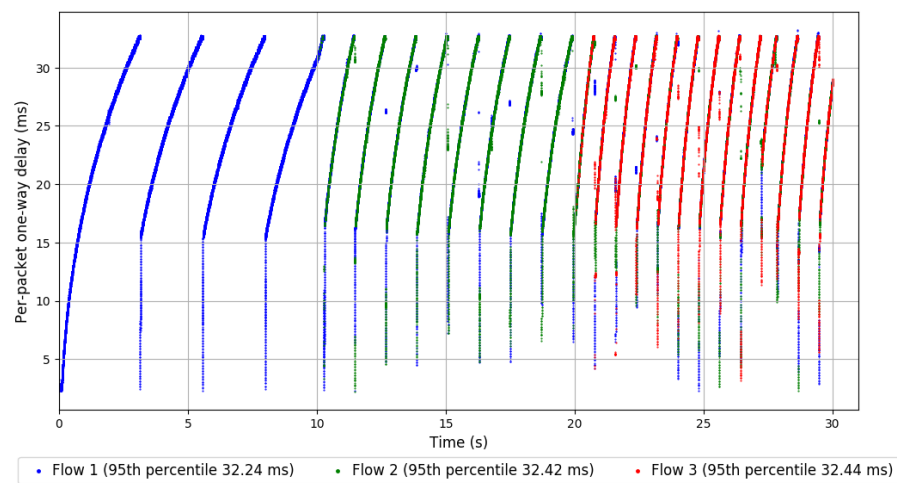
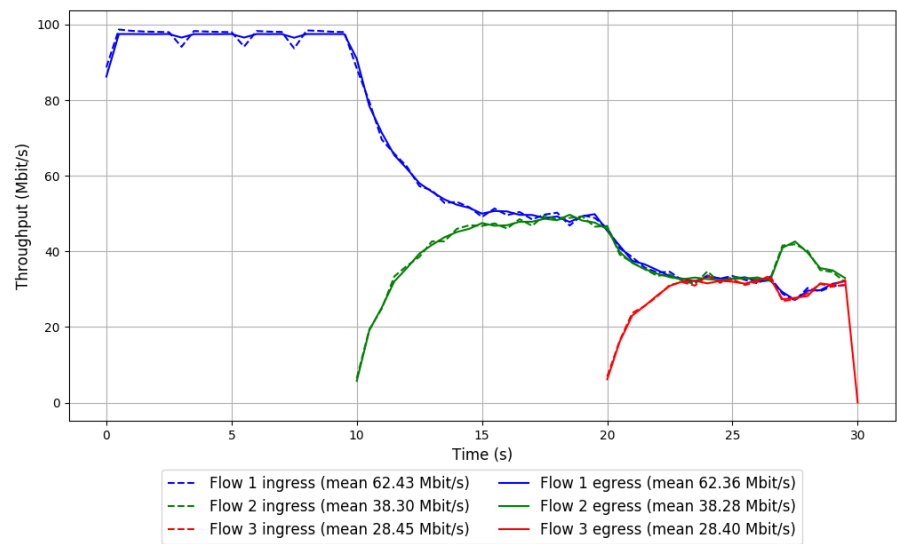
-- Flow 3:

Average throughput: 28.40 Mbit/s

95th percentile per-packet one-way delay: 32.438 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link

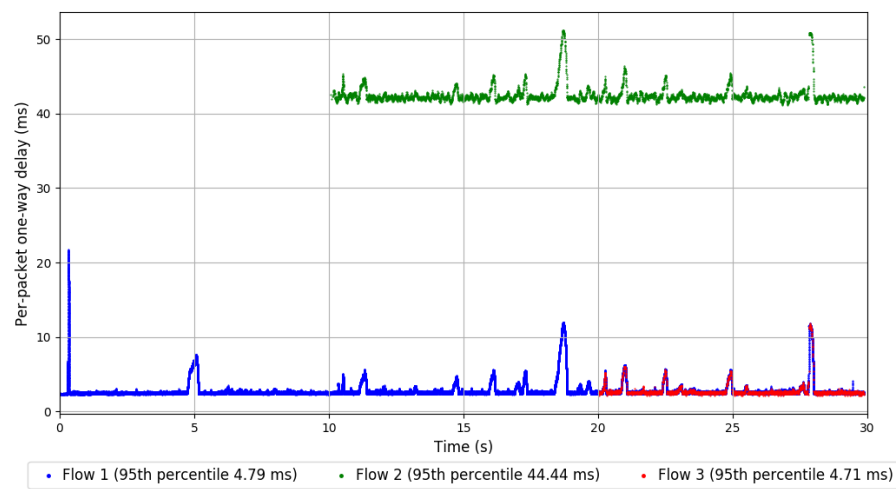
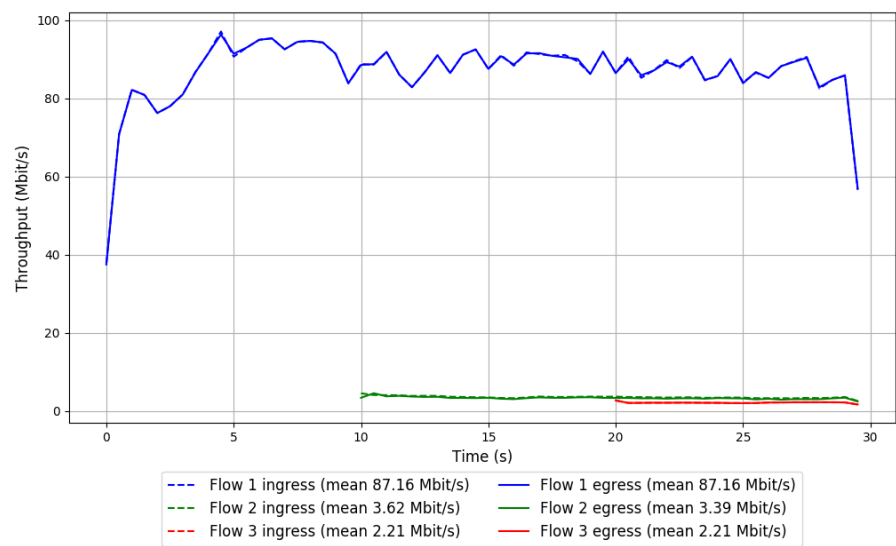


```
Run 1: Statistics of PCC

Start at: 2018-02-03 01:34:56
End at: 2018-02-03 01:35:26
Local clock offset: 0.126 ms
Remote clock offset: 0.856 ms

# Below is generated by plot.py at 2018-02-03 05:28:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.12 Mbit/s
95th percentile per-packet one-way delay: 6.507 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 4.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 44.435 ms
Loss rate: 6.49%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 4.708 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link

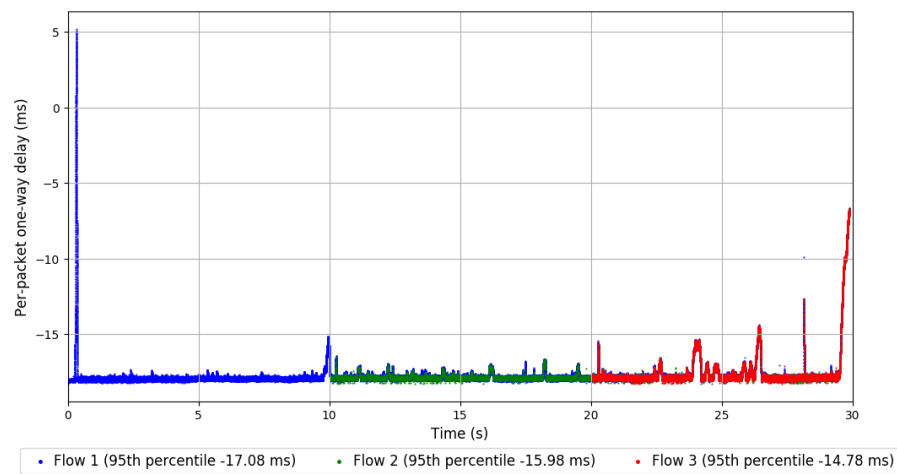
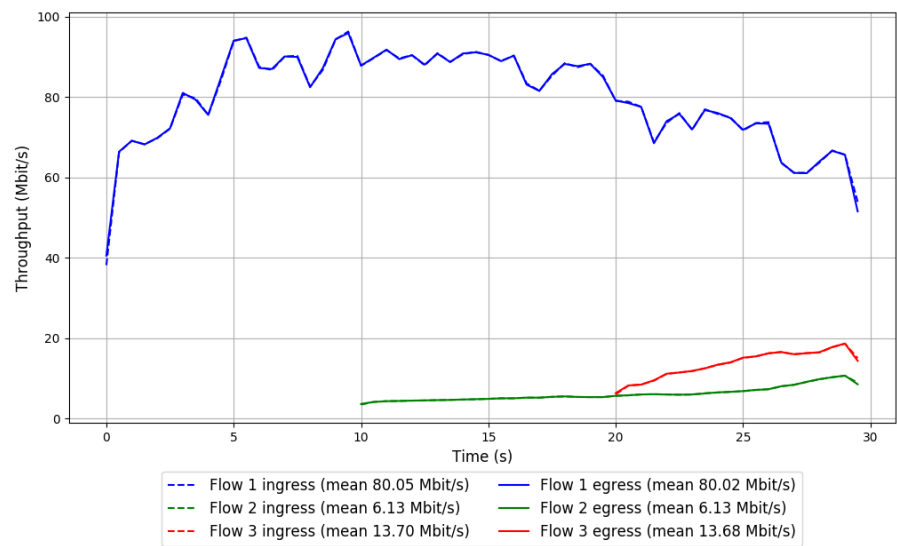


Run 2: Statistics of PCC

Start at: 2018-02-03 01:55:29
End at: 2018-02-03 01:55:59
Local clock offset: 0.063 ms
Remote clock offset: -19.82 ms

Below is generated by plot.py at 2018-02-03 05:28:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: -16.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: -17.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: -15.984 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: -14.779 ms
Loss rate: 0.00%

Run 2: Report of PCC — Data Link

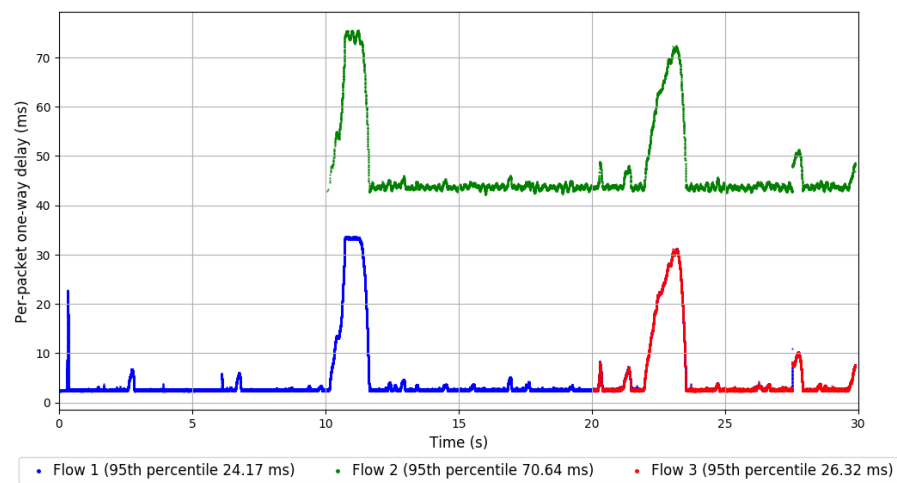
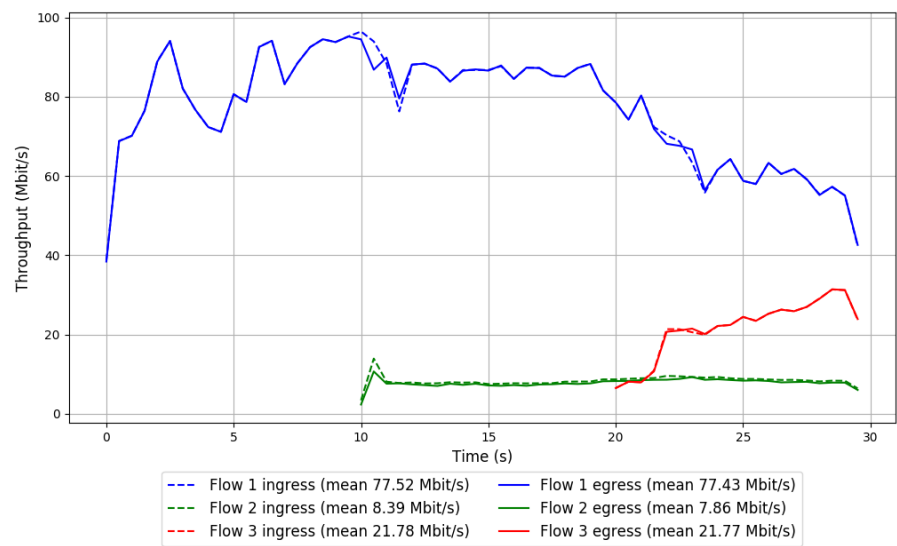


Run 3: Statistics of PCC

Start at: 2018-02-03 02:16:04
End at: 2018-02-03 02:16:34
Local clock offset: -0.045 ms
Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-02-03 05:28:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 43.353 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 24.169 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 70.641 ms
Loss rate: 6.56%
-- Flow 3:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 26.319 ms
Loss rate: 0.00%

Run 3: Report of PCC — Data Link

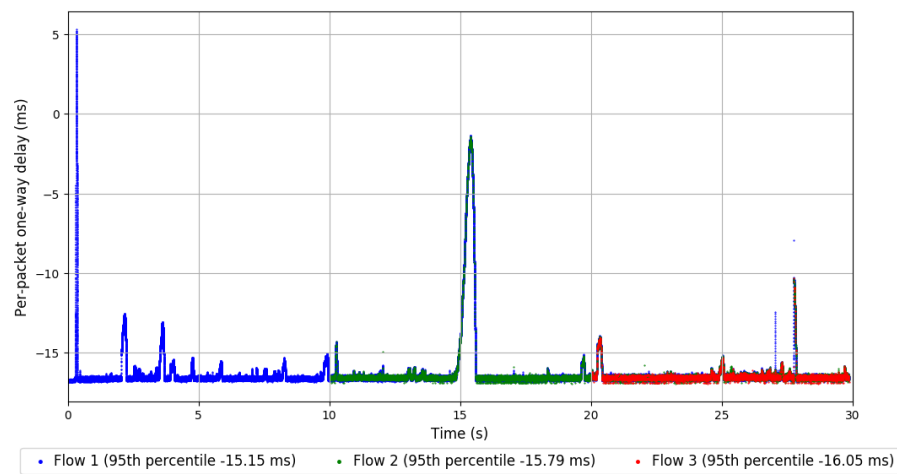
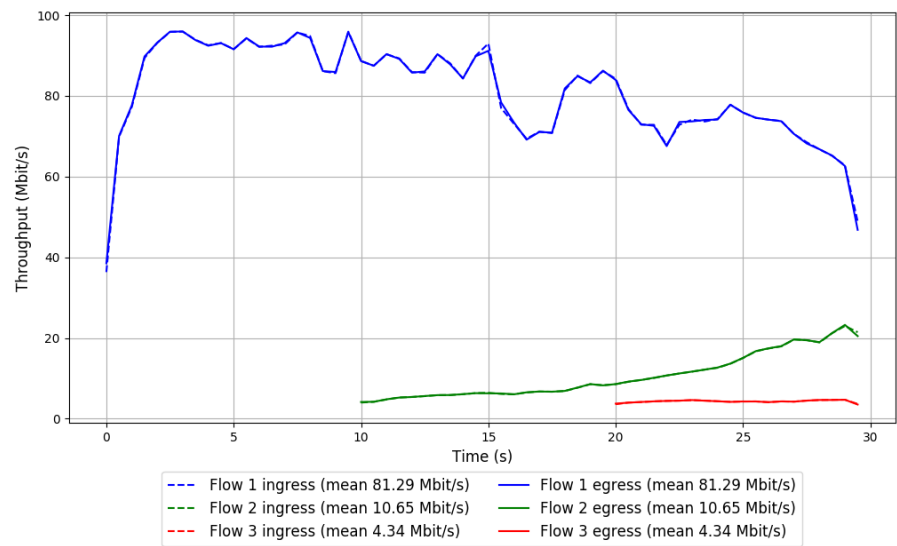


Run 4: Statistics of PCC

Start at: 2018-02-03 02:36:37
End at: 2018-02-03 02:37:07
Local clock offset: -0.09 ms
Remote clock offset: -19.125 ms

Below is generated by plot.py at 2018-02-03 05:29:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: -15.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.29 Mbit/s
95th percentile per-packet one-way delay: -15.152 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: -15.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -16.047 ms
Loss rate: 0.00%

Run 4: Report of PCC — Data Link

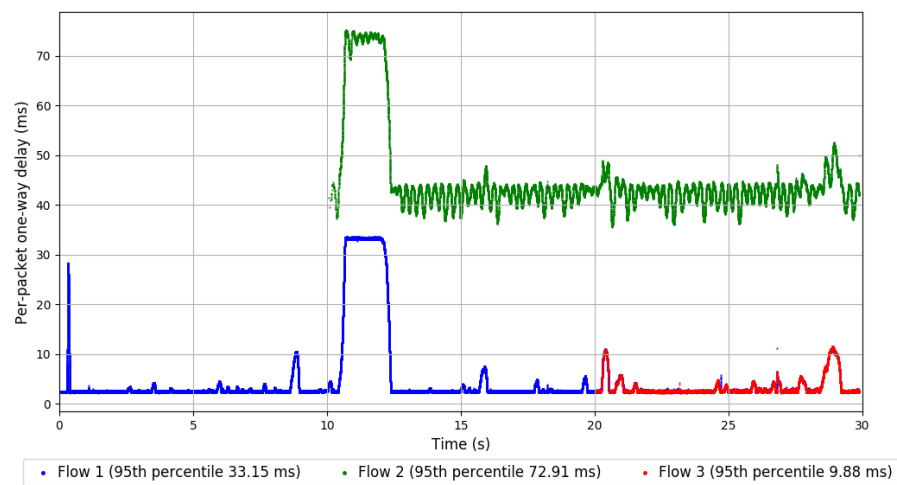
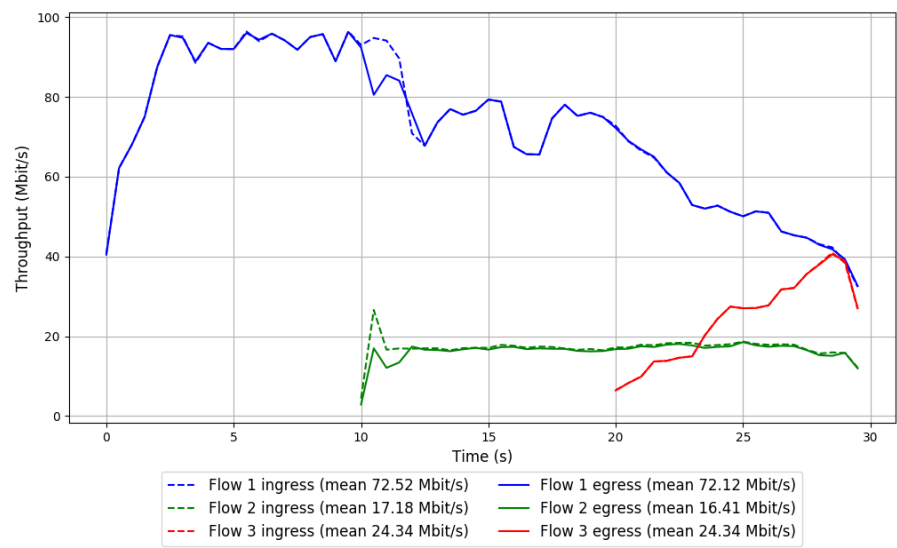


Run 5: Statistics of PCC

Start at: 2018-02-03 02:57:13
End at: 2018-02-03 02:57:43
Local clock offset: -0.053 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-02-03 05:29:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 43.355 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 33.151 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 16.41 Mbit/s
95th percentile per-packet one-way delay: 72.905 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 9.885 ms
Loss rate: 0.00%

Run 5: Report of PCC — Data Link

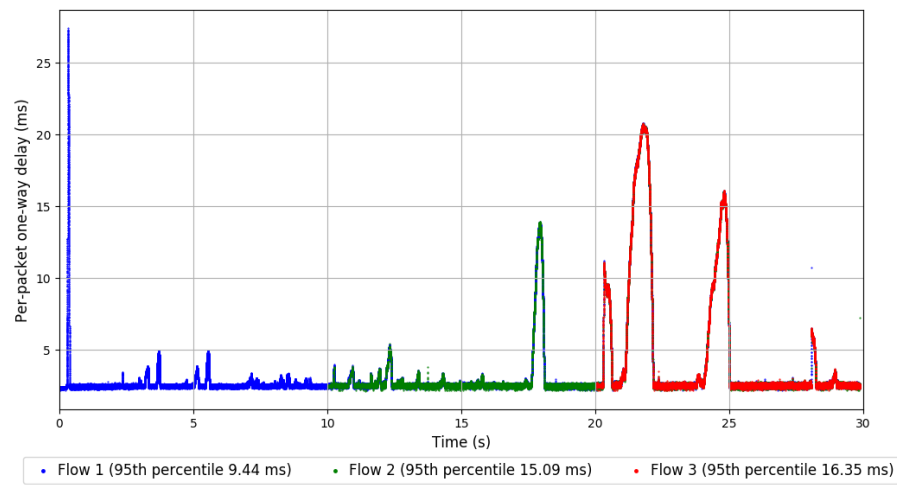
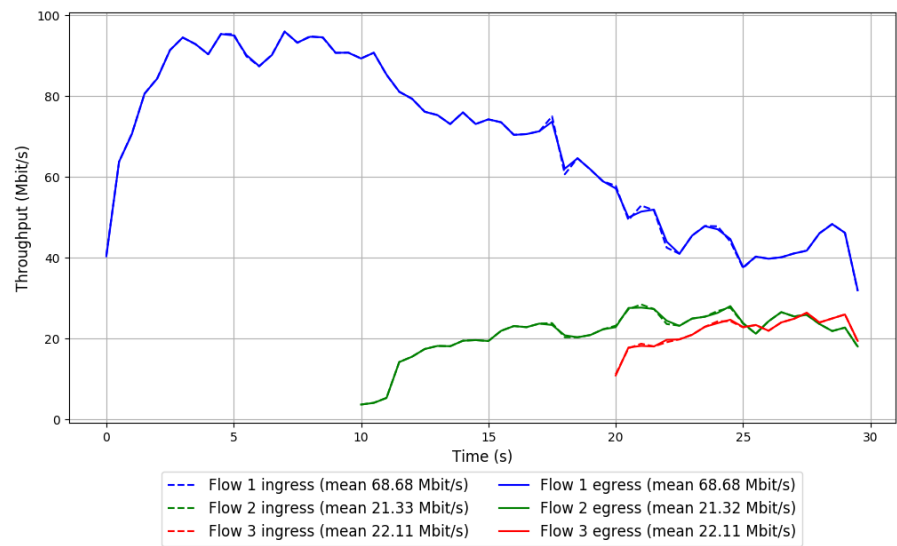


Run 6: Statistics of PCC

Start at: 2018-02-03 03:17:45
End at: 2018-02-03 03:18:15
Local clock offset: -0.051 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-02-03 05:29:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 12.111 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.68 Mbit/s
95th percentile per-packet one-way delay: 9.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 15.091 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 16.347 ms
Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-03 03:38:18

End at: 2018-02-03 03:38:48

Local clock offset: -0.053 ms

Remote clock offset: 0.996 ms

Below is generated by plot.py at 2018-02-03 05:29:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 11.339 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 8.047 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 17.568 ms

Loss rate: 0.00%

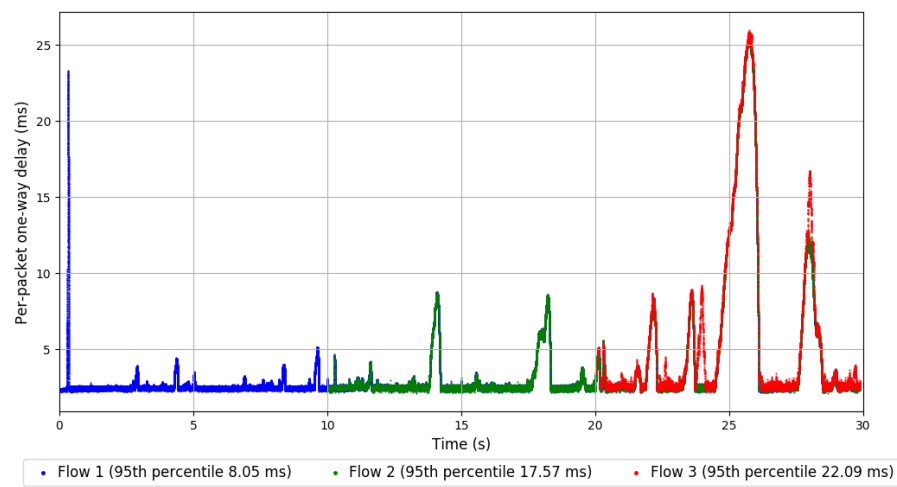
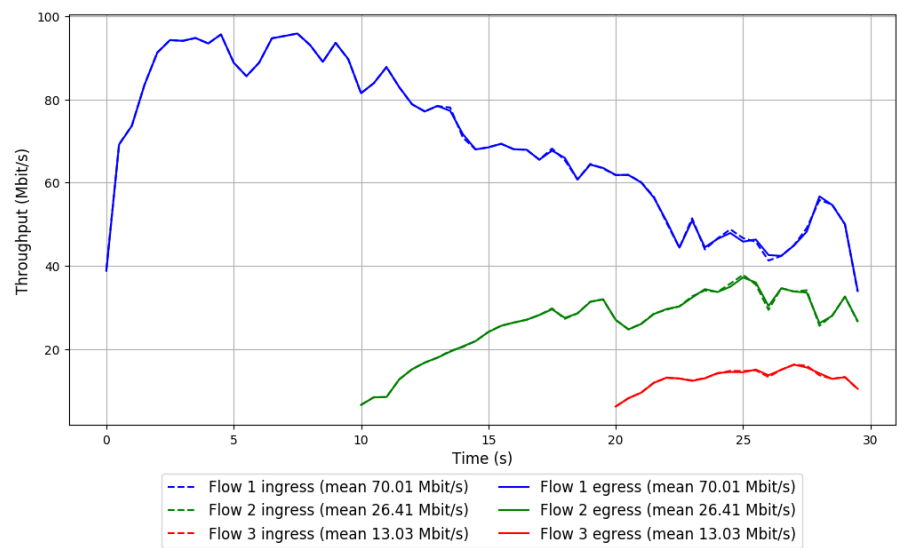
-- Flow 3:

Average throughput: 13.03 Mbit/s

95th percentile per-packet one-way delay: 22.090 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-03 03:58:49

End at: 2018-02-03 03:59:19

Local clock offset: -0.023 ms

Remote clock offset: 2.071 ms

Below is generated by plot.py at 2018-02-03 05:29:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 9.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 8.220 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 15.133 ms

Loss rate: 0.00%

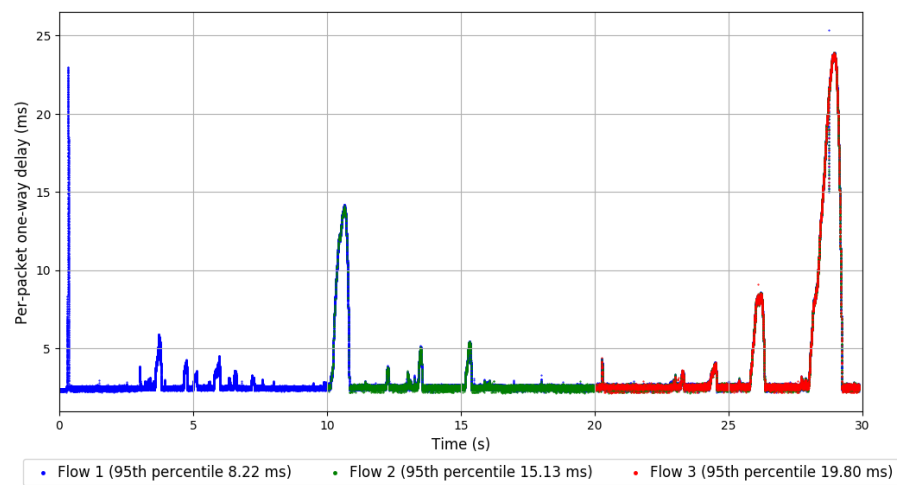
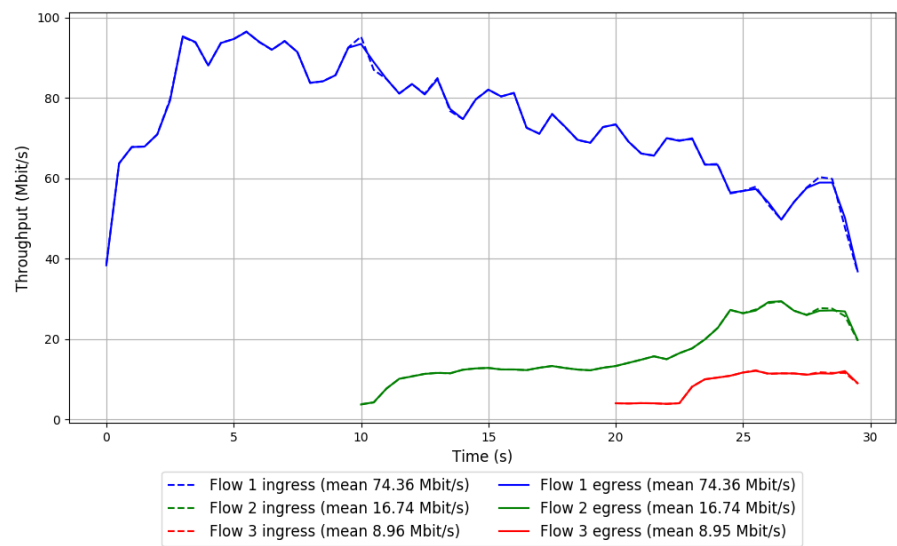
-- Flow 3:

Average throughput: 8.95 Mbit/s

95th percentile per-packet one-way delay: 19.801 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-03 04:19:22

End at: 2018-02-03 04:19:52

Local clock offset: 0.011 ms

Remote clock offset: 2.144 ms

Below is generated by plot.py at 2018-02-03 05:30:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 33.067 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 23.656 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 33.198 ms

Loss rate: 0.51%

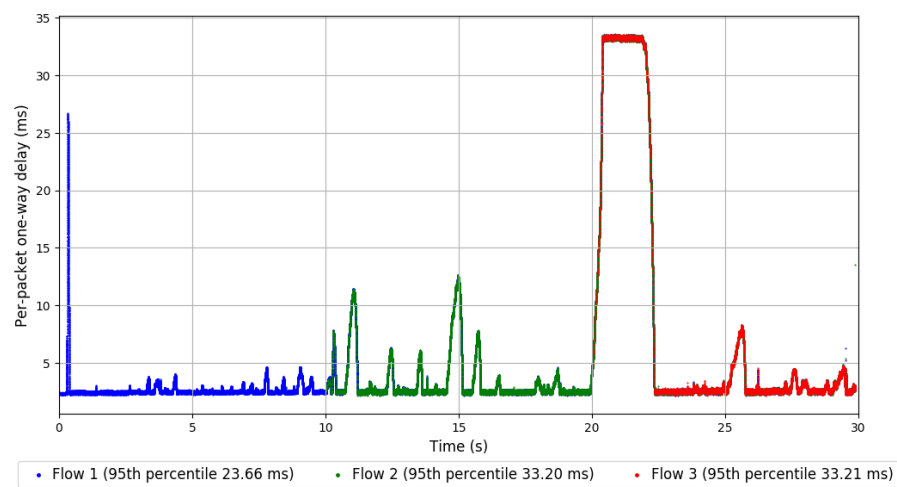
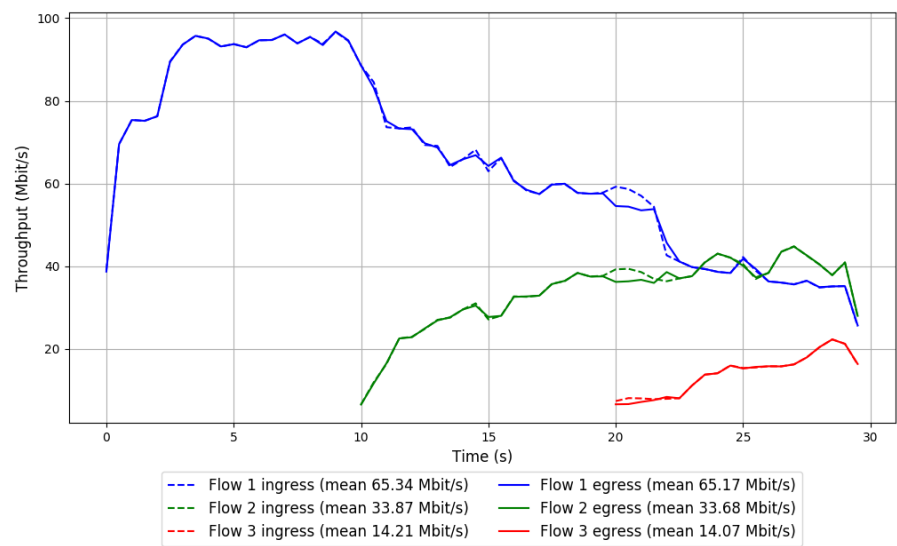
-- Flow 3:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 33.208 ms

Loss rate: 1.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-03 04:39:56

End at: 2018-02-03 04:40:26

Local clock offset: 0.029 ms

Remote clock offset: 2.142 ms

Below is generated by plot.py at 2018-02-03 05:30:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.47 Mbit/s

95th percentile per-packet one-way delay: 9.140 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 8.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 13.010 ms

Loss rate: 0.00%

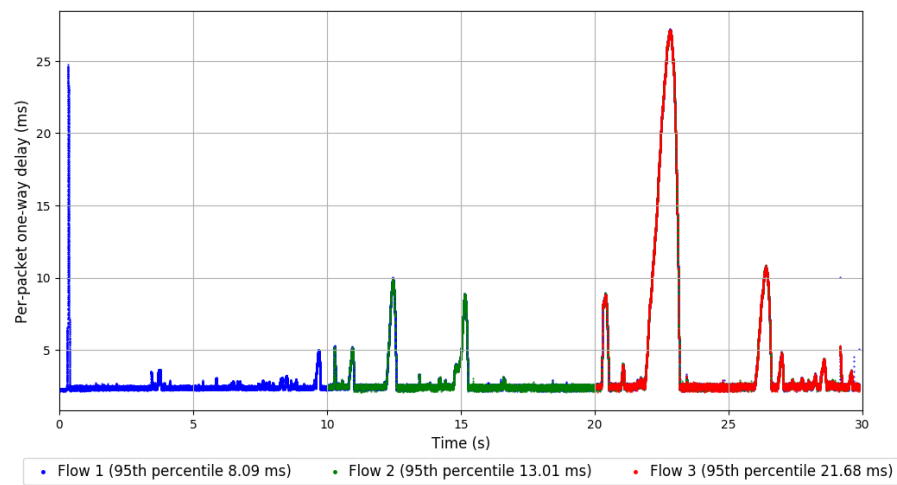
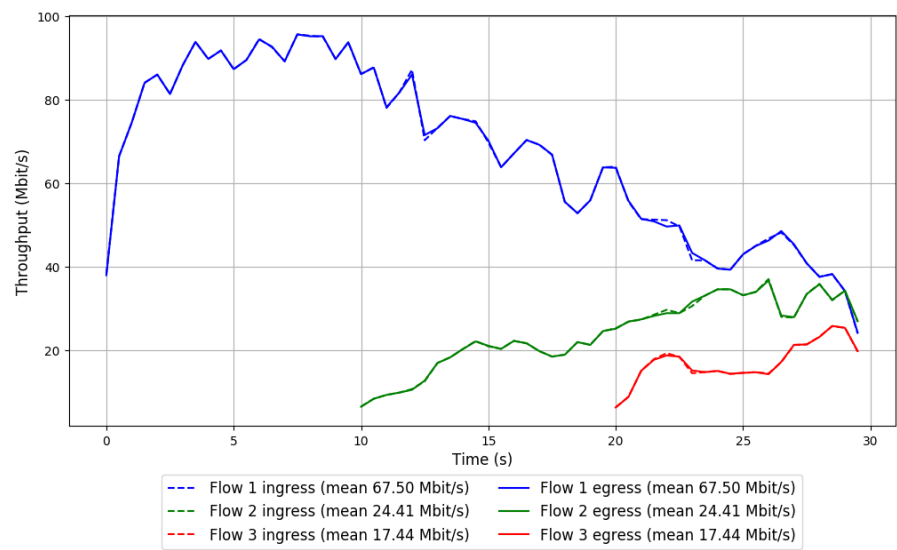
-- Flow 3:

Average throughput: 17.44 Mbit/s

95th percentile per-packet one-way delay: 21.683 ms

Loss rate: 0.00%

Run 10: Report of PCC — Data Link

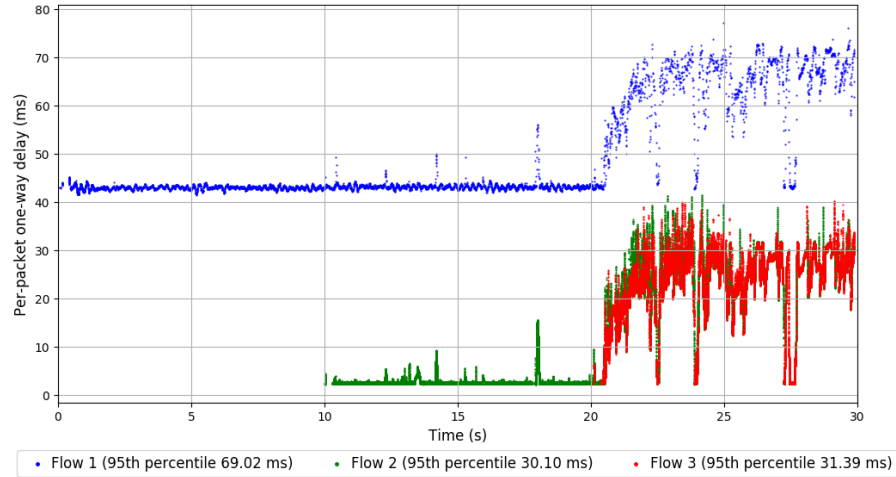
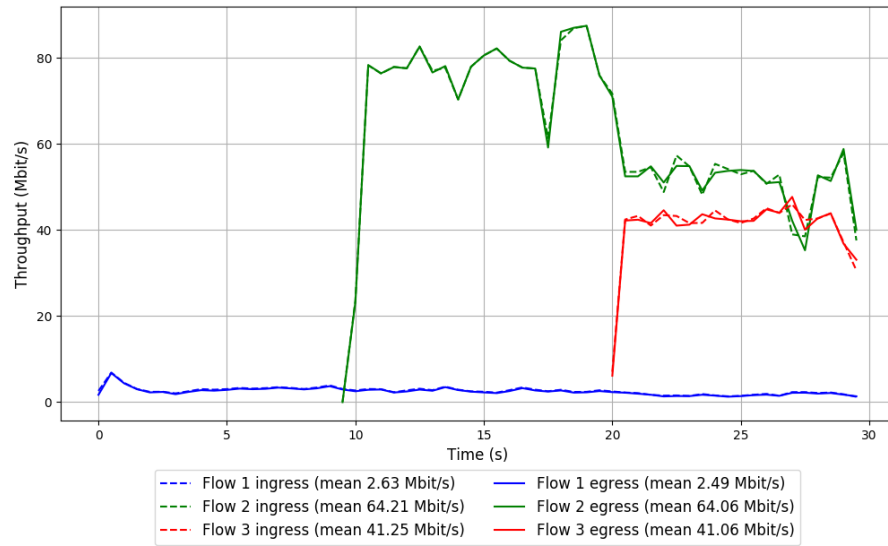


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-03 01:47:30
End at: 2018-02-03 01:48:00
Local clock offset: 0.118 ms
Remote clock offset: 0.68 ms

# Below is generated by plot.py at 2018-02-03 05:30:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.68 Mbit/s
95th percentile per-packet one-way delay: 33.576 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 69.017 ms
Loss rate: 5.28%
-- Flow 2:
Average throughput: 64.06 Mbit/s
95th percentile per-packet one-way delay: 30.098 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 31.390 ms
Loss rate: 0.18%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-03 02:08:05

End at: 2018-02-03 02:08:35

Local clock offset: -0.067 ms

Remote clock offset: 0.368 ms

Below is generated by plot.py at 2018-02-03 05:31:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 31.425 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 31.360 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.31 Mbit/s

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

Loss rate: 0.21%

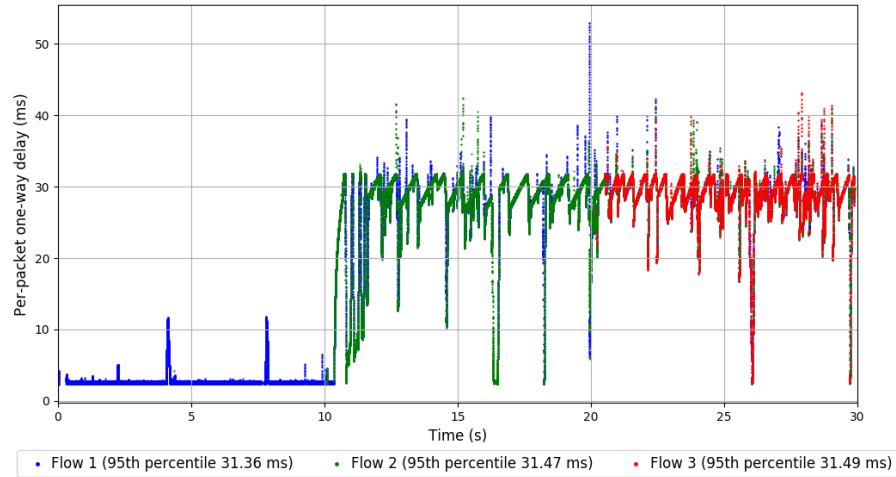
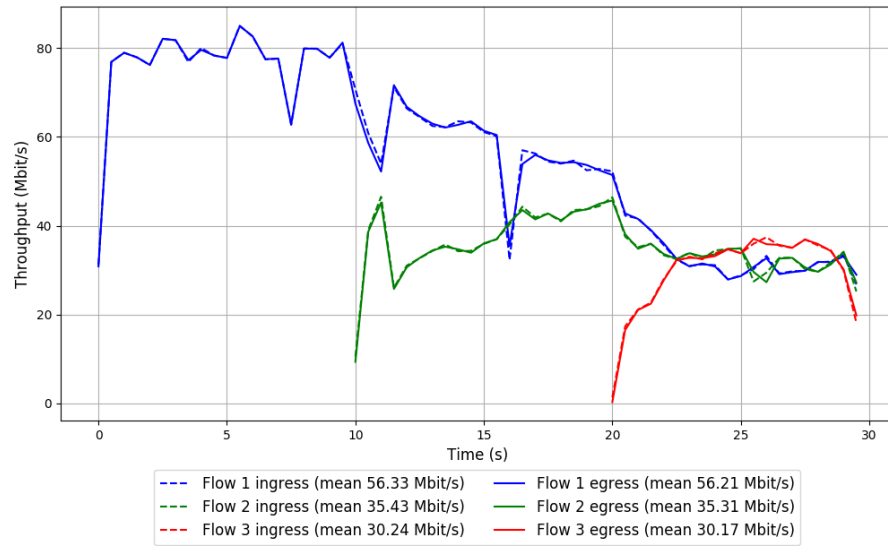
-- Flow 3:

Average throughput: 30.17 Mbit/s

95th percentile per-packet one-way delay: 31.491 ms

Loss rate: 0.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-03 02:28:39

End at: 2018-02-03 02:29:09

Local clock offset: -0.028 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-02-03 05:31:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 31.012 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 69.31 Mbit/s

95th percentile per-packet one-way delay: 29.712 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 70.522 ms

Loss rate: 5.34%

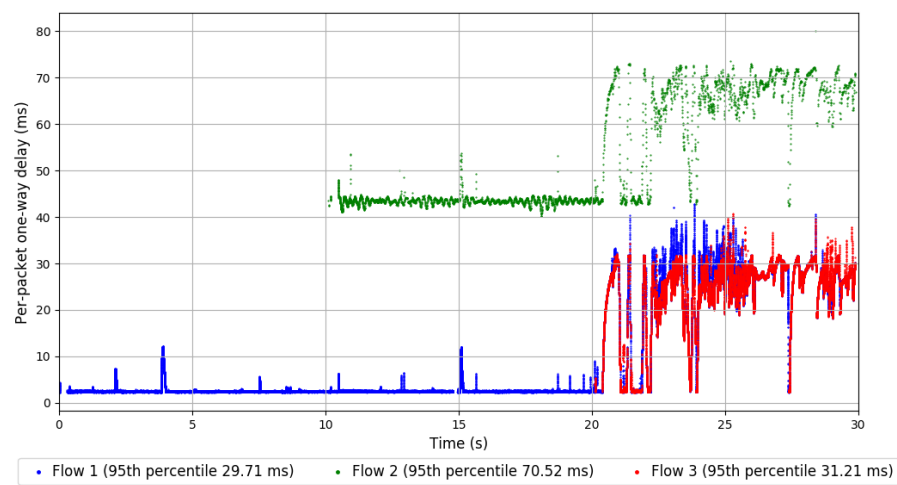
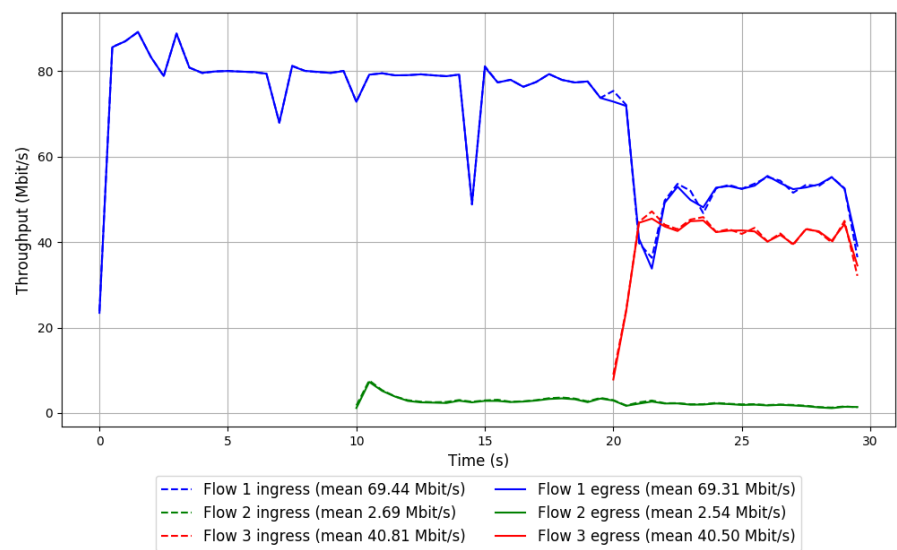
-- Flow 3:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 31.208 ms

Loss rate: 0.47%

Run 3: Report of QUIC Cubic — Data Link

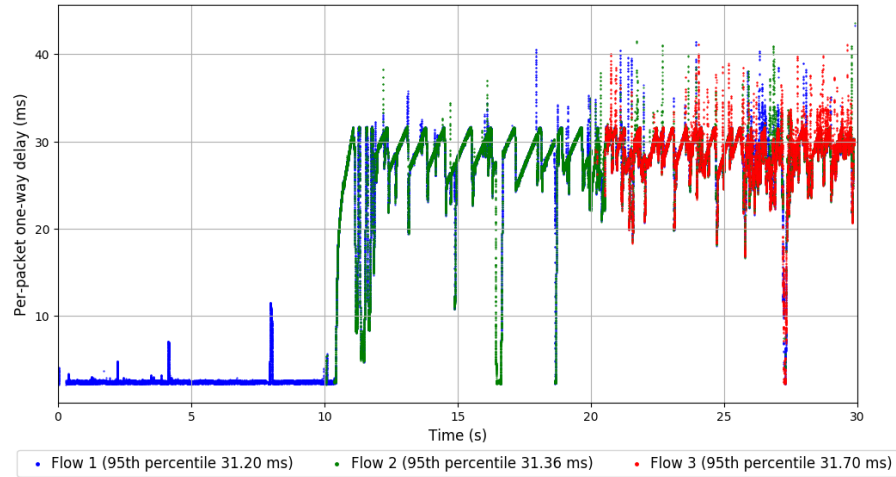
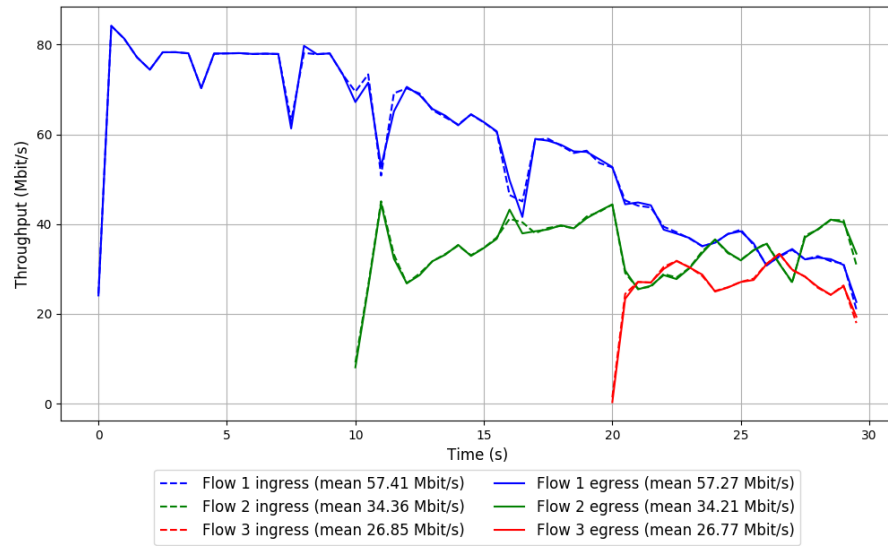


Run 4: Statistics of QUIC Cubic

Start at: 2018-02-03 02:49:14
End at: 2018-02-03 02:49:44
Local clock offset: -0.019 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-02-03 05:31:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 31.308 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 31.200 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 34.21 Mbit/s
95th percentile per-packet one-way delay: 31.358 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 31.696 ms
Loss rate: 0.29%

Run 4: Report of QUIC Cubic — Data Link

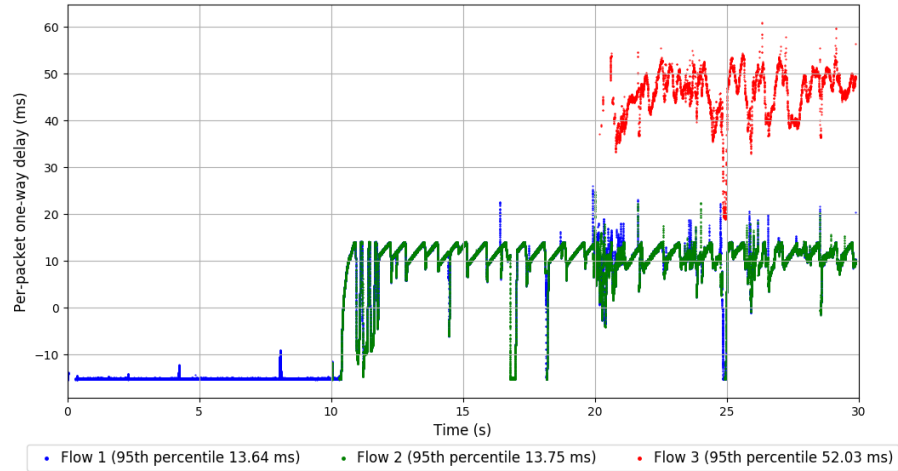
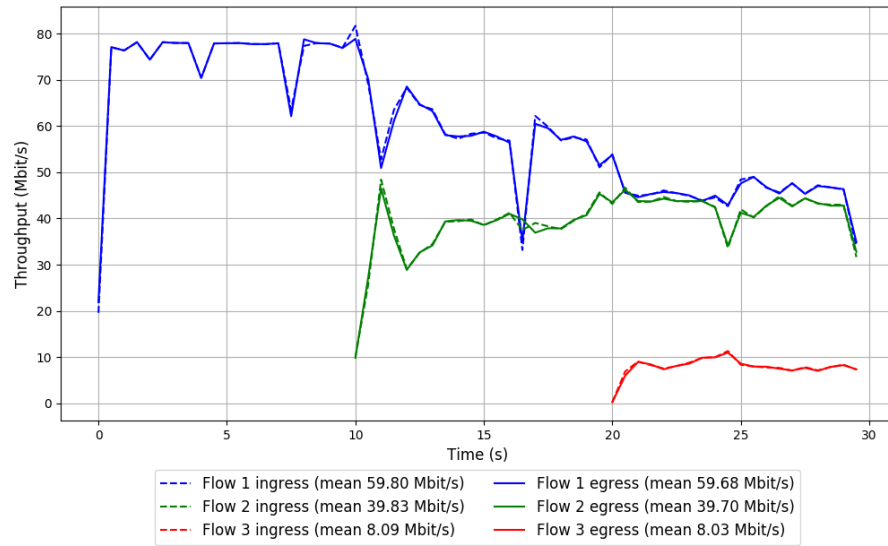


Run 5: Statistics of QUIC Cubic

Start at: 2018-02-03 03:09:47
End at: 2018-02-03 03:10:17
Local clock offset: -0.053 ms
Remote clock offset: -17.774 ms

Below is generated by plot.py at 2018-02-03 05:31:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 13.848 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 13.637 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 13.746 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 52.026 ms
Loss rate: 0.93%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-03 03:30:19

End at: 2018-02-03 03:30:49

Local clock offset: -0.051 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-02-03 05:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.75 Mbit/s

95th percentile per-packet one-way delay: 51.535 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 32.536 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 17.27 Mbit/s

95th percentile per-packet one-way delay: 61.032 ms

Loss rate: 0.69%

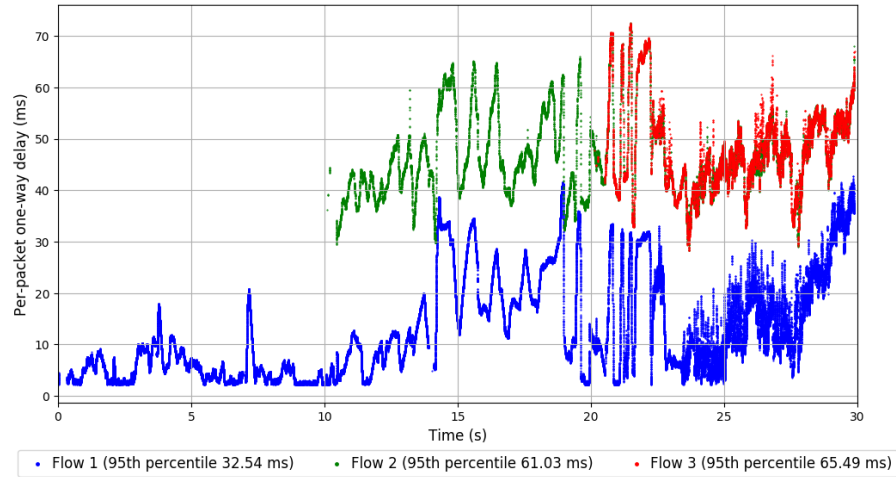
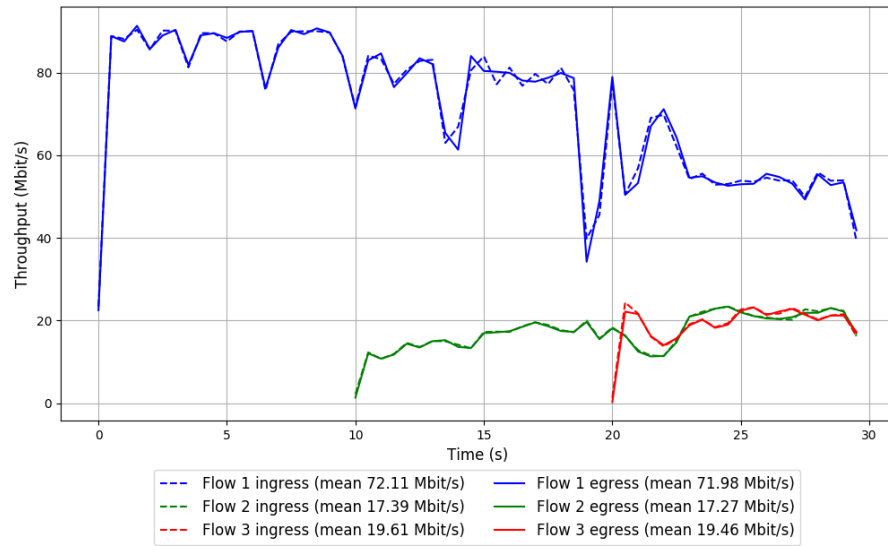
-- Flow 3:

Average throughput: 19.46 Mbit/s

95th percentile per-packet one-way delay: 65.488 ms

Loss rate: 0.95%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-03 03:50:50

End at: 2018-02-03 03:51:20

Local clock offset: -0.01 ms

Remote clock offset: 1.883 ms

Below is generated by plot.py at 2018-02-03 05:31:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 31.346 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 55.77 Mbit/s

95th percentile per-packet one-way delay: 31.235 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 31.399 ms

Loss rate: 0.29%

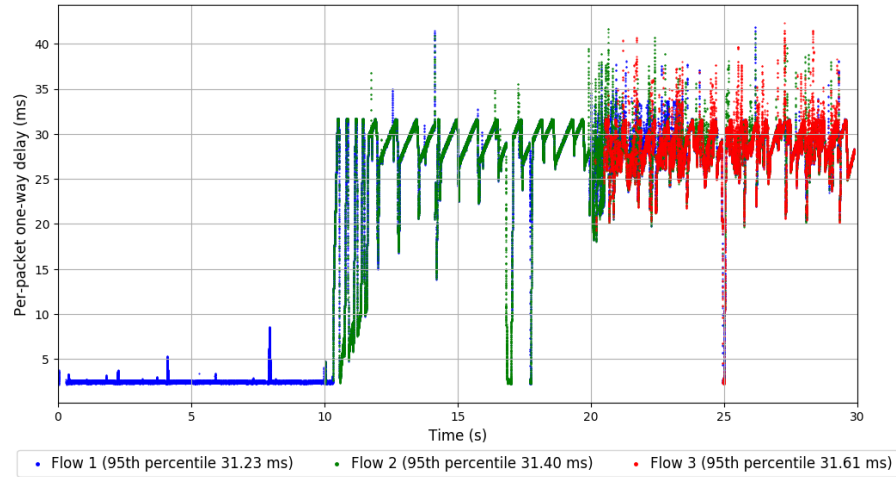
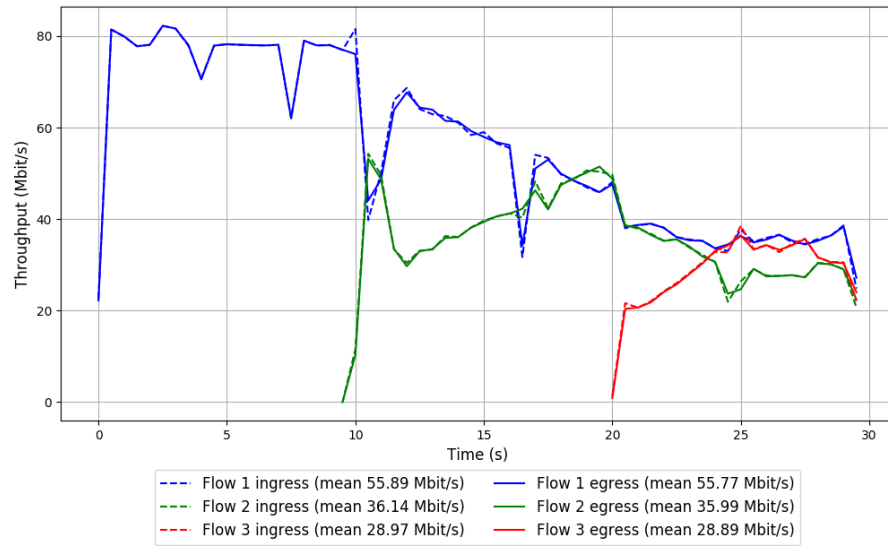
-- Flow 3:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 31.610 ms

Loss rate: 0.26%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-03 04:11:24

End at: 2018-02-03 04:11:54

Local clock offset: -0.069 ms

Remote clock offset: 2.033 ms

Below is generated by plot.py at 2018-02-03 05:31:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 31.359 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 31.232 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 31.414 ms

Loss rate: 0.25%

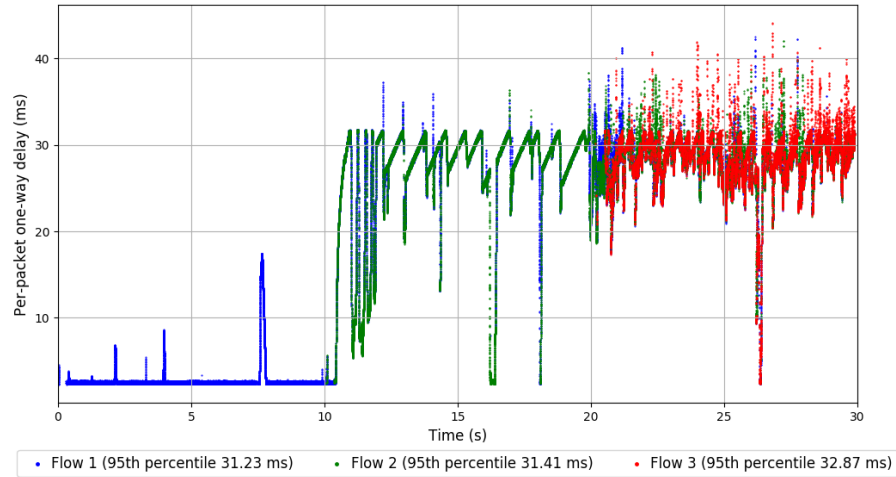
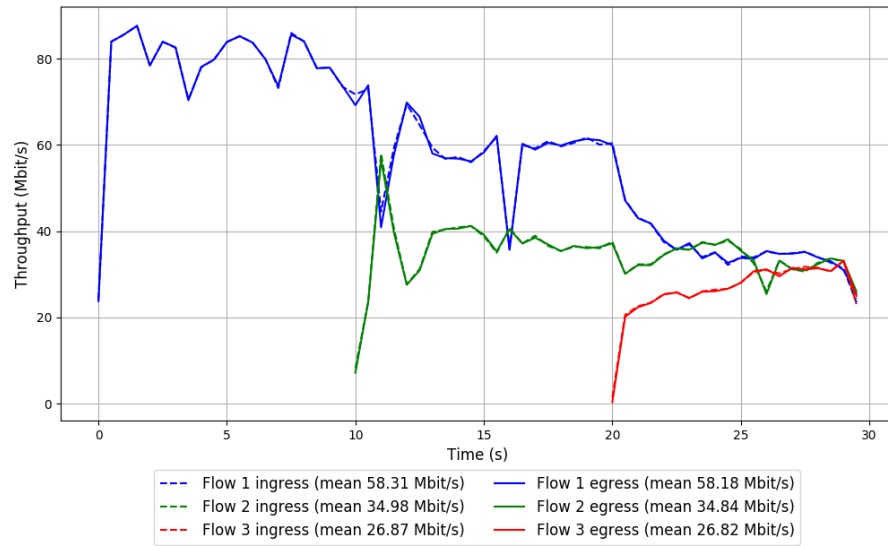
-- Flow 3:

Average throughput: 26.82 Mbit/s

95th percentile per-packet one-way delay: 32.874 ms

Loss rate: 0.19%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-03 04:31:58

End at: 2018-02-03 04:32:28

Local clock offset: -0.039 ms

Remote clock offset: 2.191 ms

Below is generated by plot.py at 2018-02-03 05:31:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 31.433 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 31.343 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 34.83 Mbit/s

95th percentile per-packet one-way delay: 31.502 ms

Loss rate: 0.17%

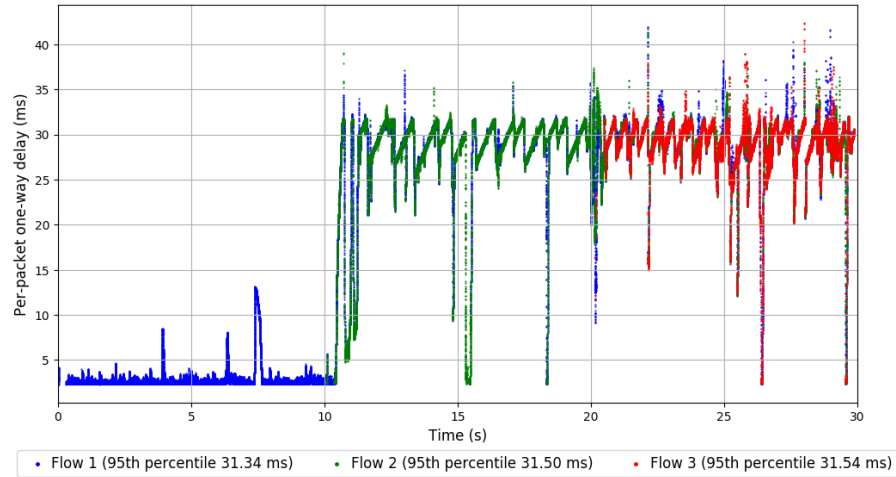
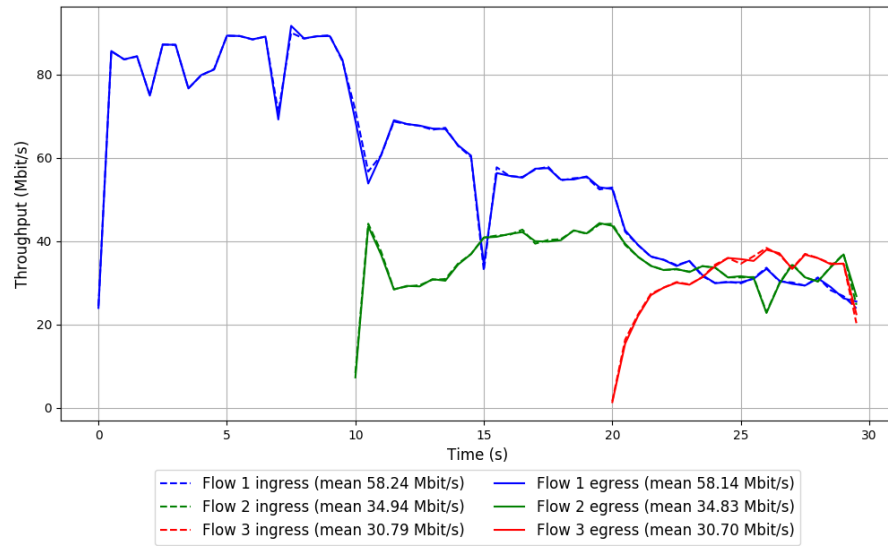
-- Flow 3:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 31.536 ms

Loss rate: 0.15%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-03 04:52:32

End at: 2018-02-03 04:53:02

Local clock offset: 0.01 ms

Remote clock offset: 2.18 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 31.355 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 31.282 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 35.15 Mbit/s

95th percentile per-packet one-way delay: 31.403 ms

Loss rate: 0.25%

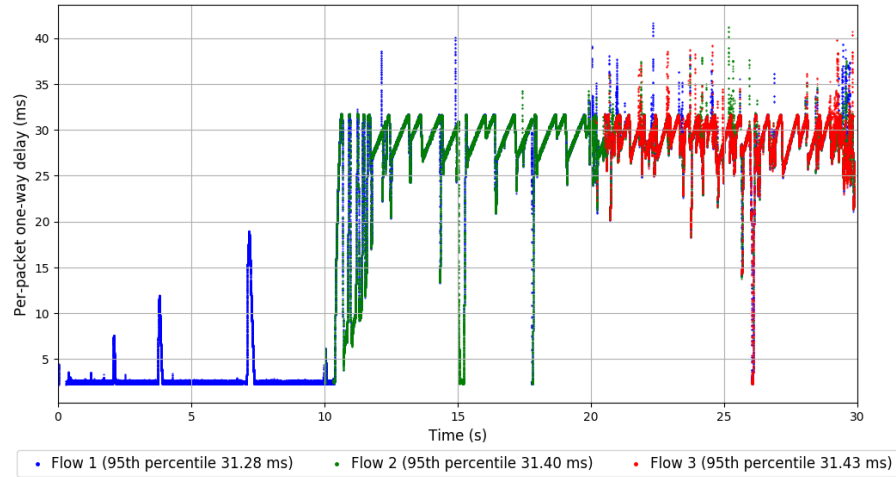
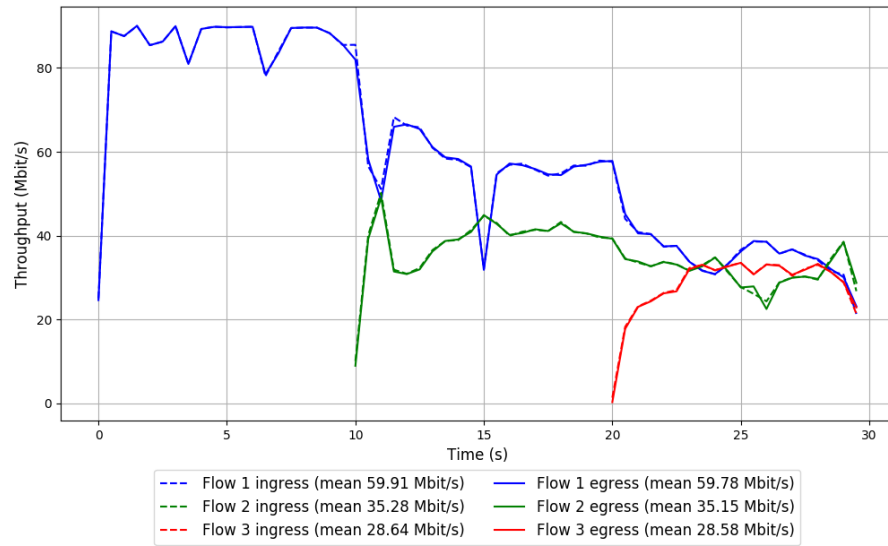
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 31.425 ms

Loss rate: 0.21%

Run 10: Report of QUIC Cubic — Data Link

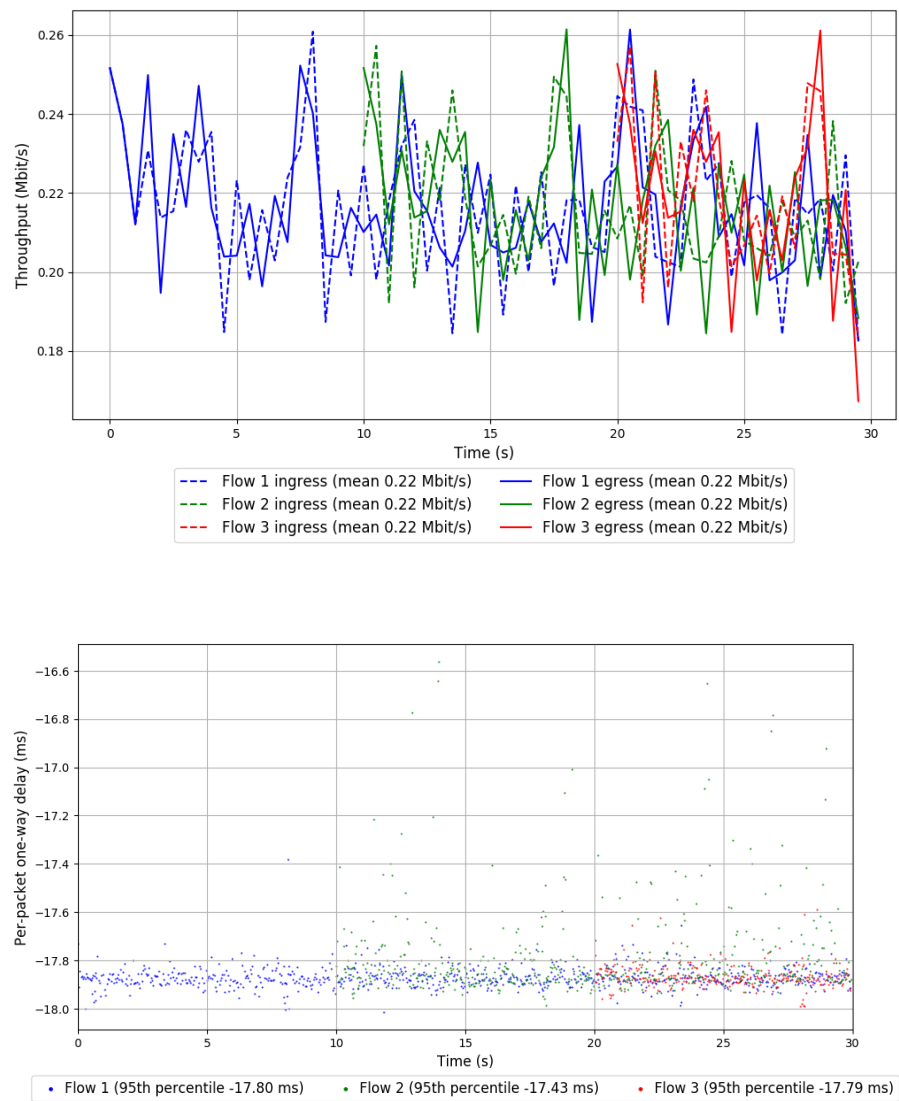


Run 1: Statistics of SReAM

Start at: 2018-02-03 01:32:42
End at: 2018-02-03 01:33:12
Local clock offset: 0.151 ms
Remote clock offset: -19.324 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -17.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.792 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

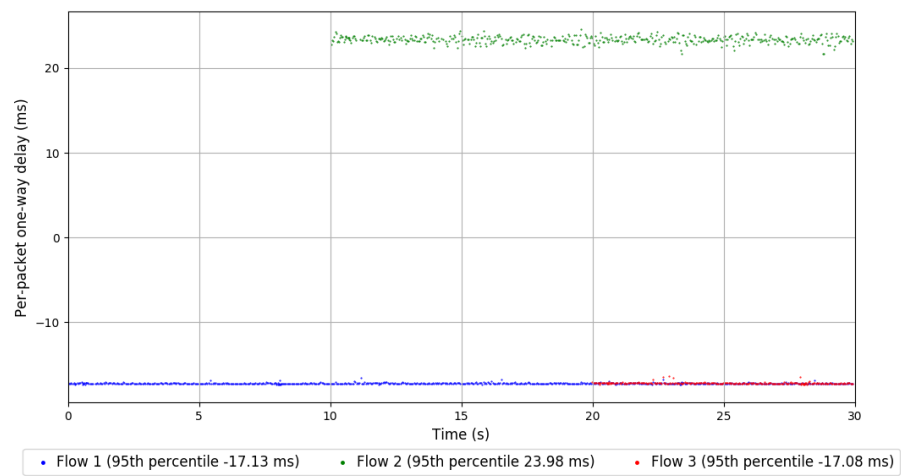
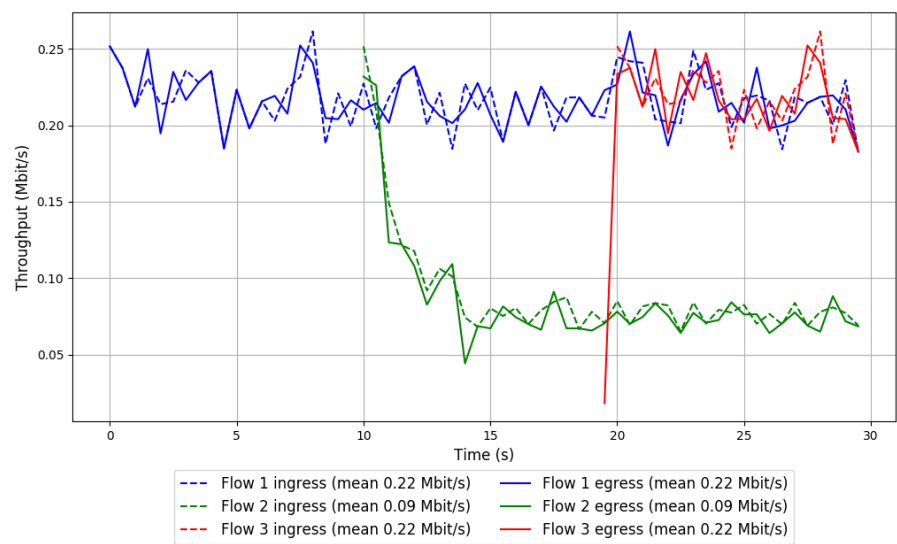


Run 2: Statistics of SCReAM

Start at: 2018-02-03 01:53:16
End at: 2018-02-03 01:53:46
Local clock offset: 0.049 ms
Remote clock offset: -18.99 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 23.755 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.131 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 23.980 ms
Loss rate: 5.13%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.078 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-02-03 02:13:50

End at: 2018-02-03 02:14:20

Local clock offset: 0.015 ms

Remote clock offset: 0.309 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 43.399 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 43.599 ms

Loss rate: 3.35%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.404 ms

Loss rate: 0.00%

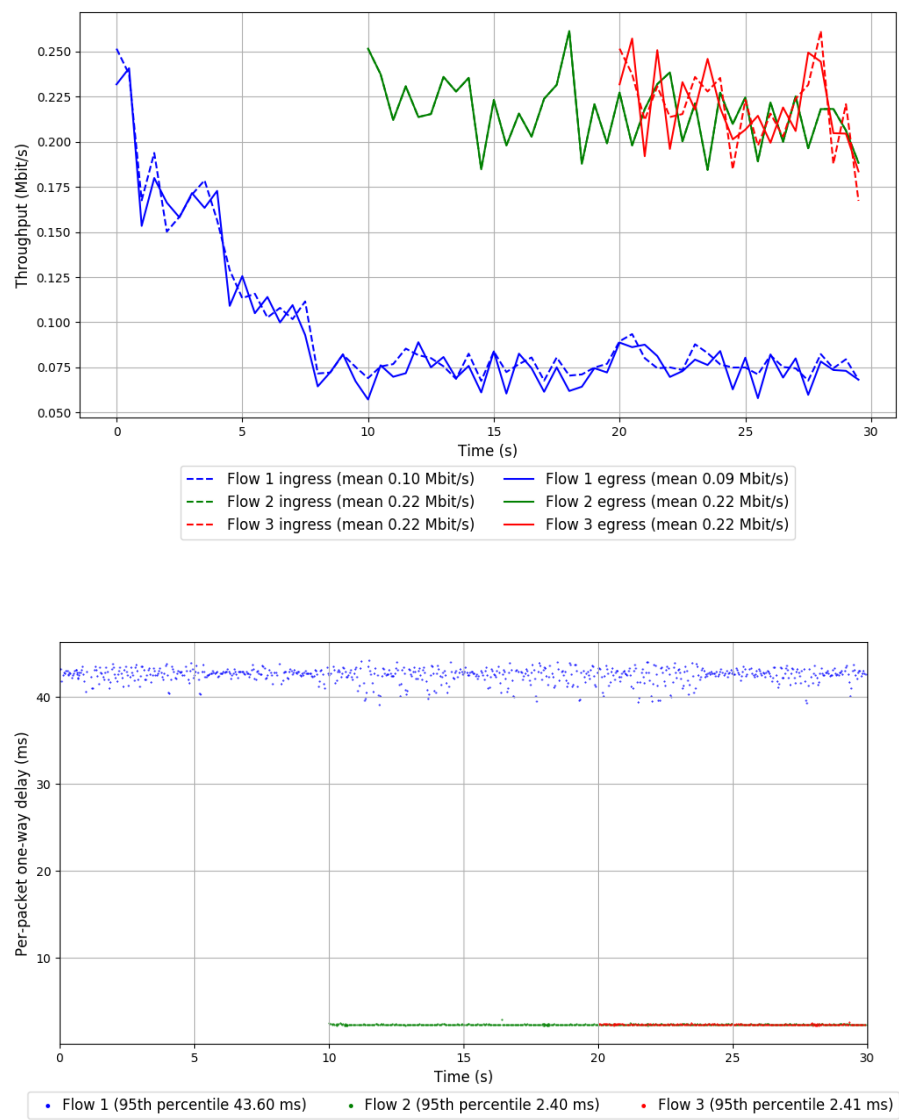
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.410 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-03 02:34:24

End at: 2018-02-03 02:34:54

Local clock offset: -0.007 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.00%

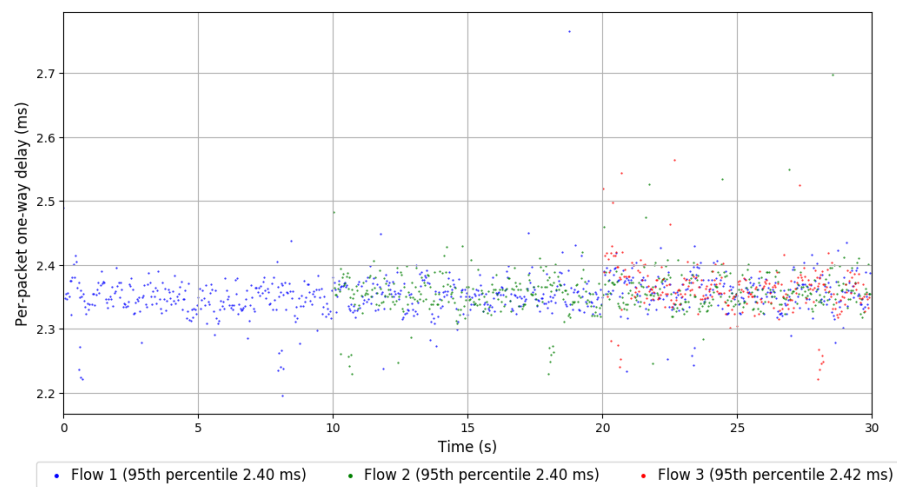
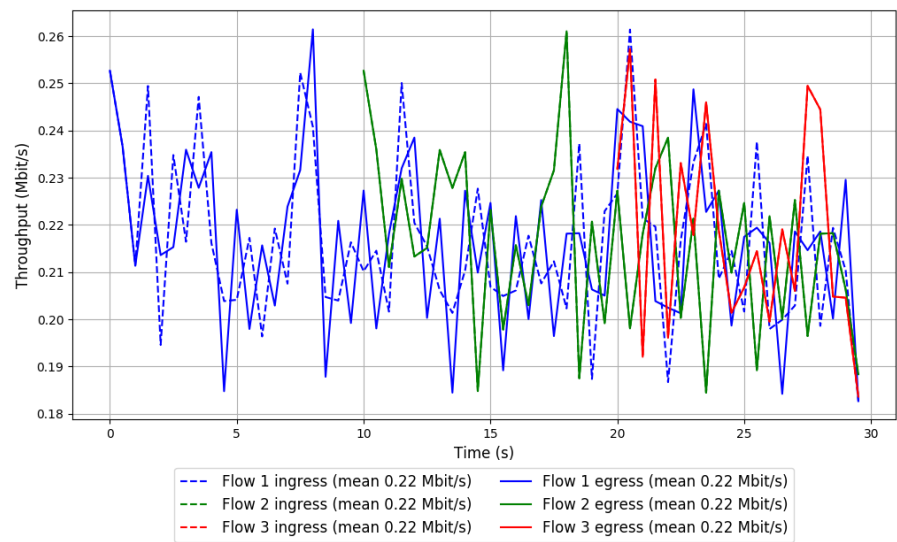
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.415 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

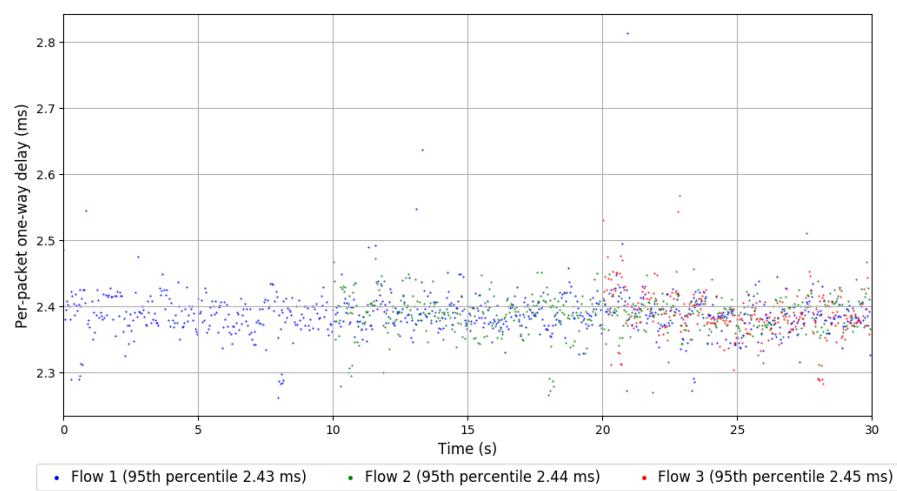
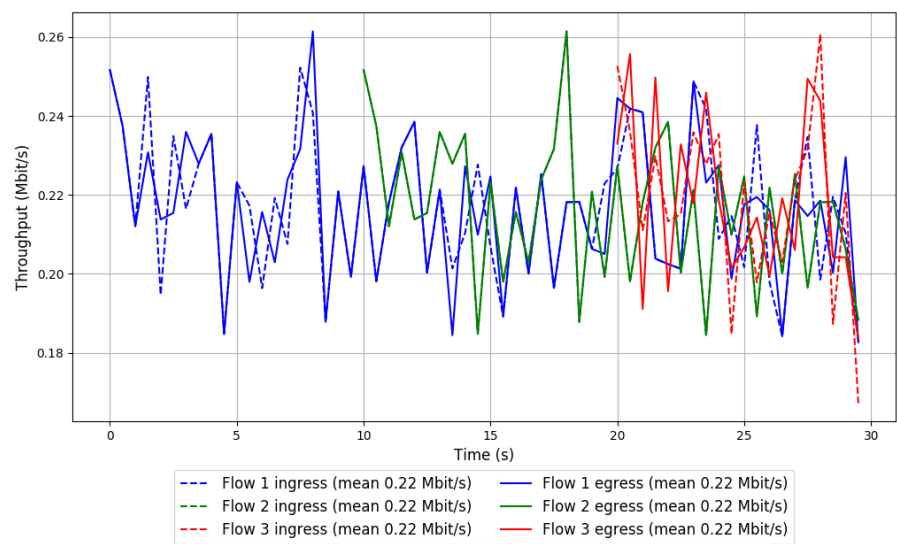


Run 5: Statistics of SReAM

Start at: 2018-02-03 02:54:59
End at: 2018-02-03 02:55:29
Local clock offset: -0.096 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.429 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.435 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.447 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

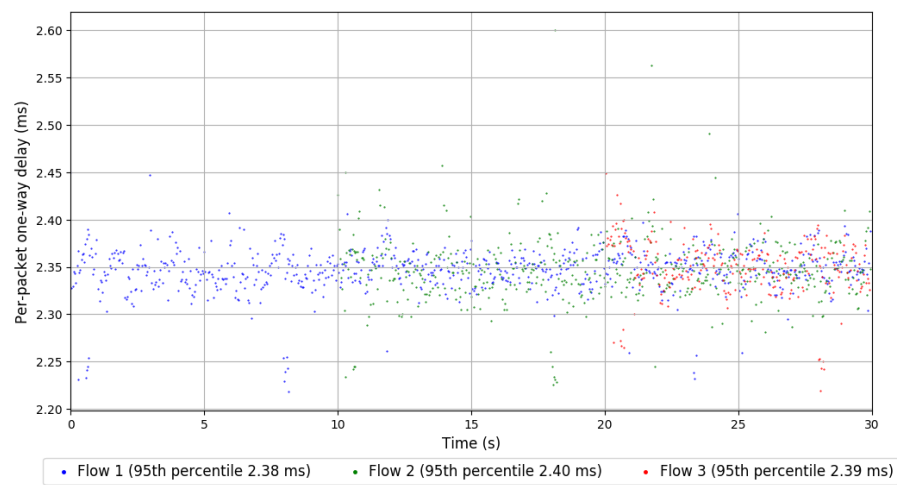
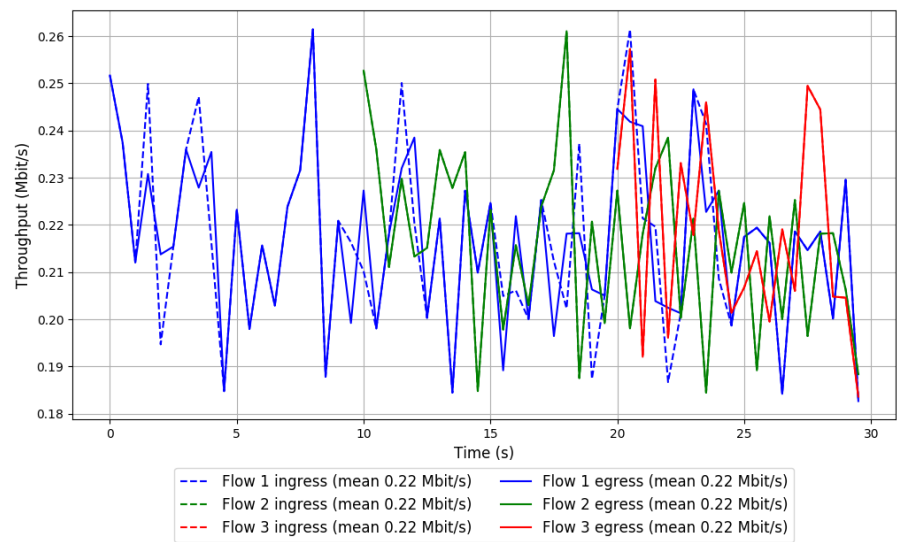


Run 6: Statistics of SReAM

Start at: 2018-02-03 03:15:32
End at: 2018-02-03 03:16:02
Local clock offset: -0.049 ms
Remote clock offset: -0.191 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.382 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.399 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.391 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

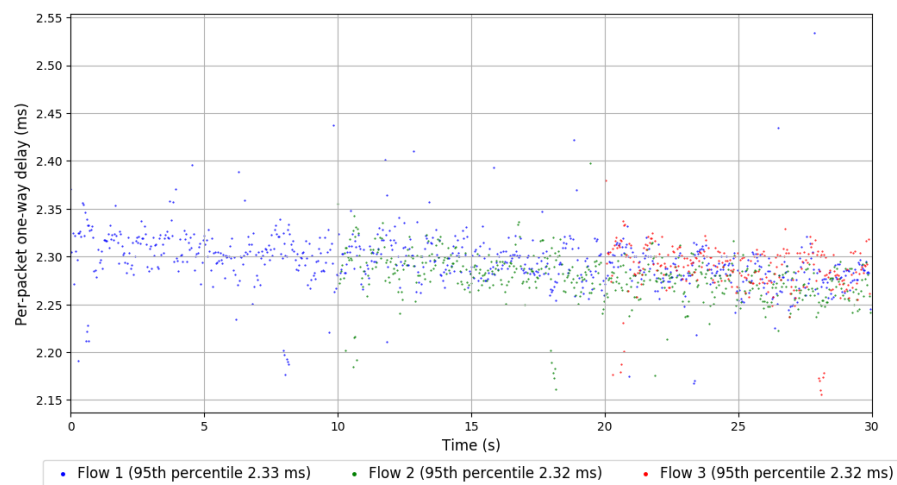
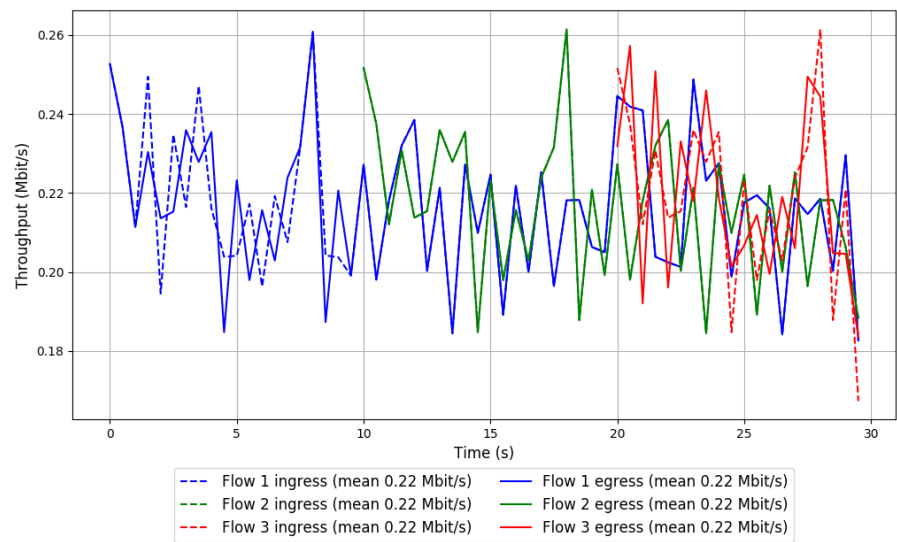


Run 7: Statistics of SReAM

Start at: 2018-02-03 03:36:04
End at: 2018-02-03 03:36:34
Local clock offset: -0.021 ms
Remote clock offset: 0.808 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.332 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.318 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-02-03 03:56:35

End at: 2018-02-03 03:57:05

Local clock offset: -0.001 ms

Remote clock offset: 2.039 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.966 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.597 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.357 ms

Loss rate: 0.00%

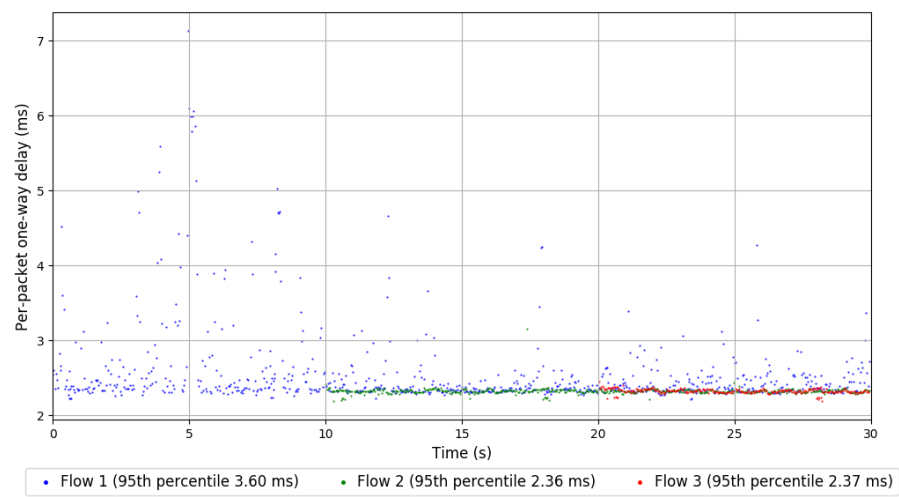
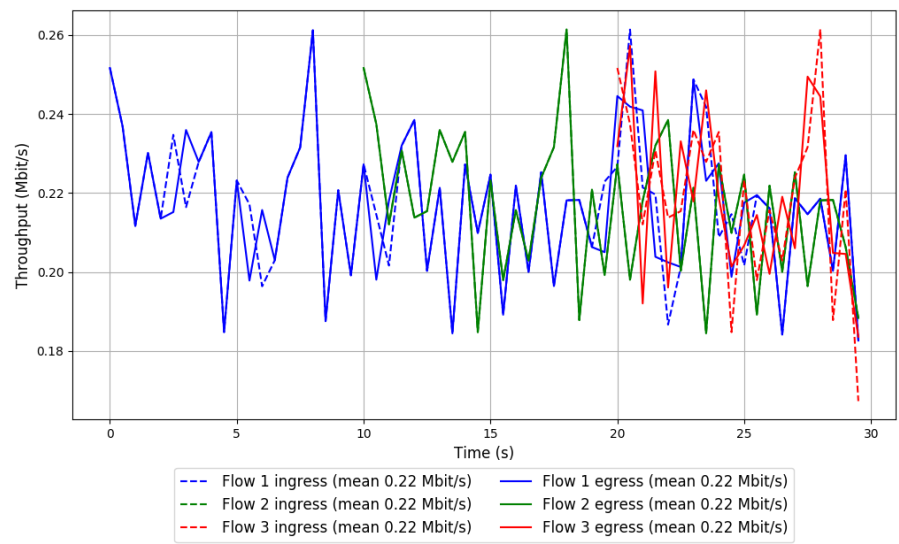
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.373 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-03 04:17:09

End at: 2018-02-03 04:17:39

Local clock offset: 0.008 ms

Remote clock offset: 2.137 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.539 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.377 ms

Loss rate: 0.00%

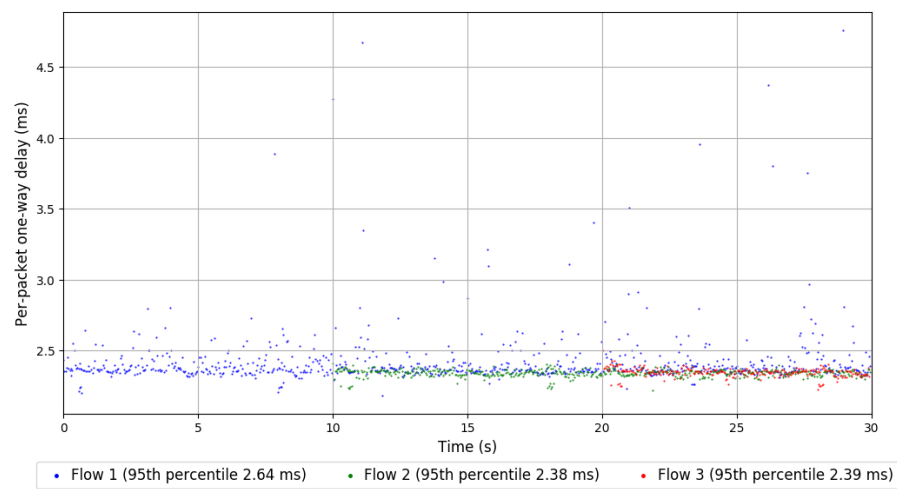
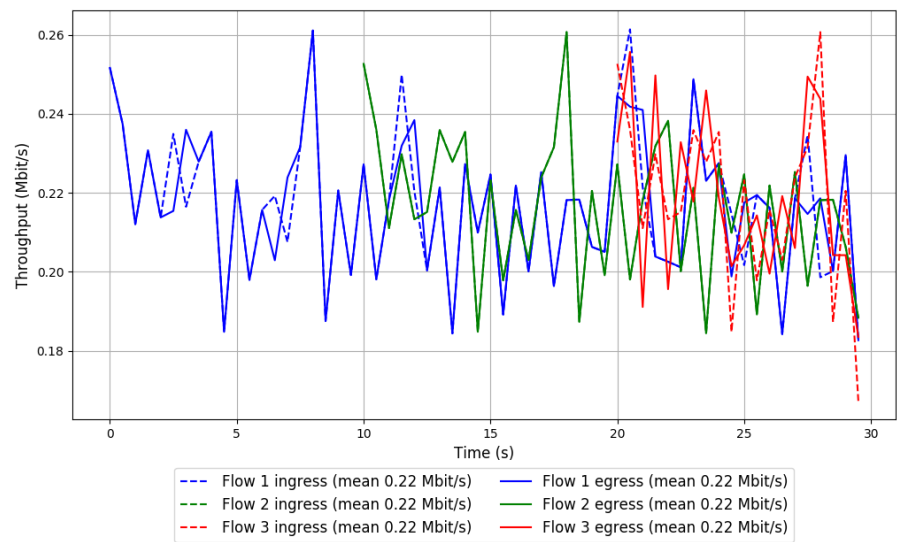
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.393 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-03 04:37:43

End at: 2018-02-03 04:38:13

Local clock offset: 0.026 ms

Remote clock offset: 2.112 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.295 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.580 ms

Loss rate: 0.00%

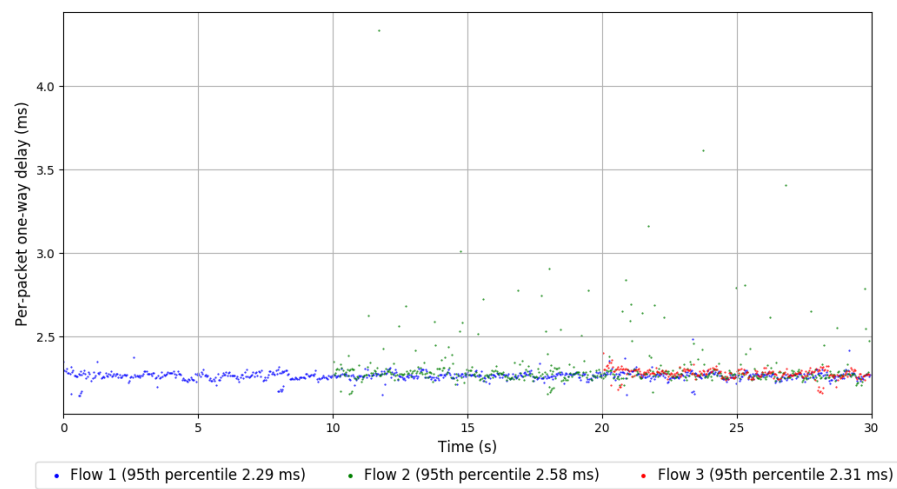
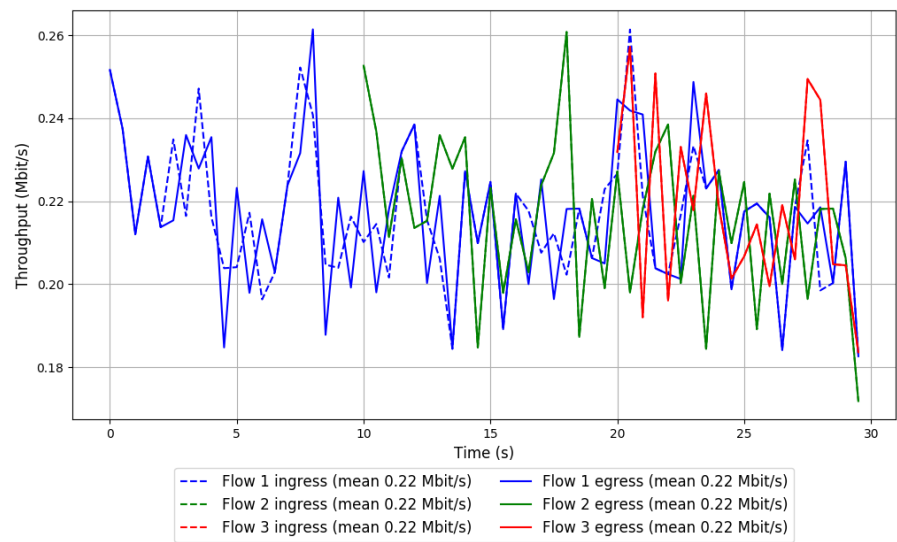
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.315 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-03 01:46:25

End at: 2018-02-03 01:46:55

Local clock offset: 0.097 ms

Remote clock offset: 0.673 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 45.136 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 5.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 45.209 ms

Loss rate: 5.87%

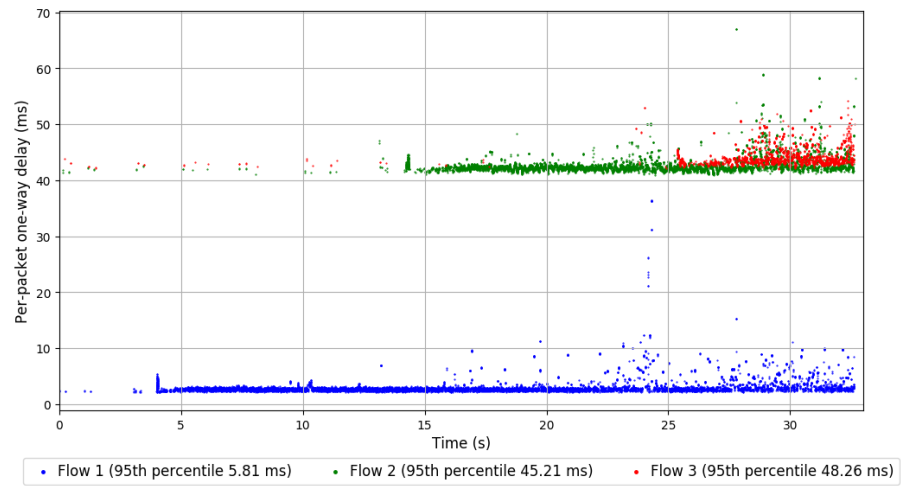
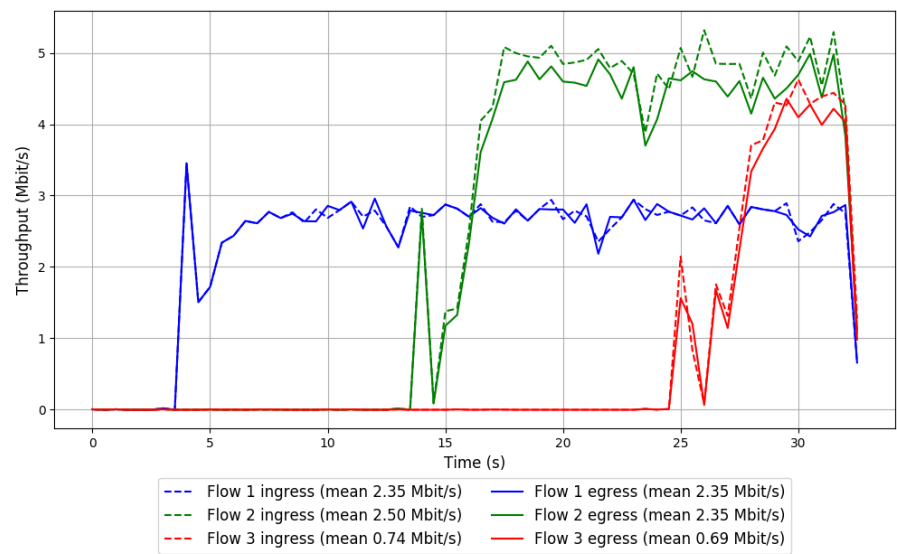
-- Flow 3:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 48.264 ms

Loss rate: 6.75%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-03 02:07:01

End at: 2018-02-03 02:07:31

Local clock offset: 0.057 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 46.741 ms

Loss rate: 3.86%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.577 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 47.486 ms

Loss rate: 6.59%

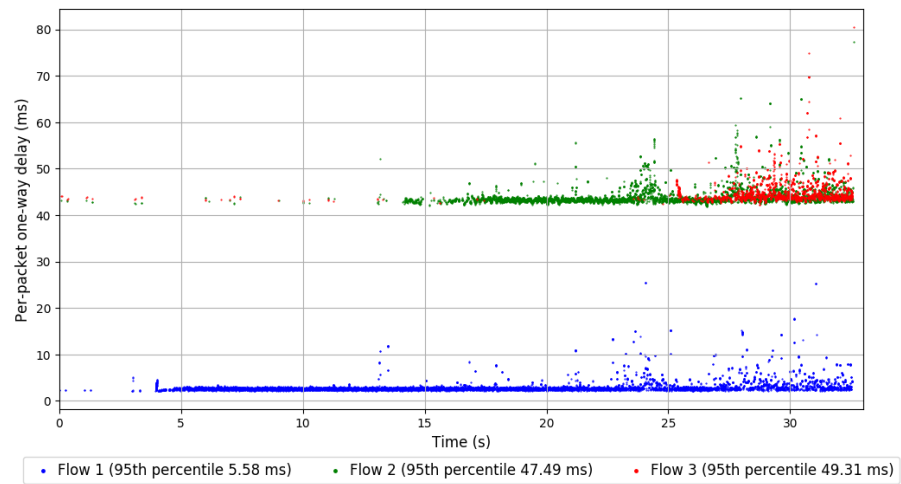
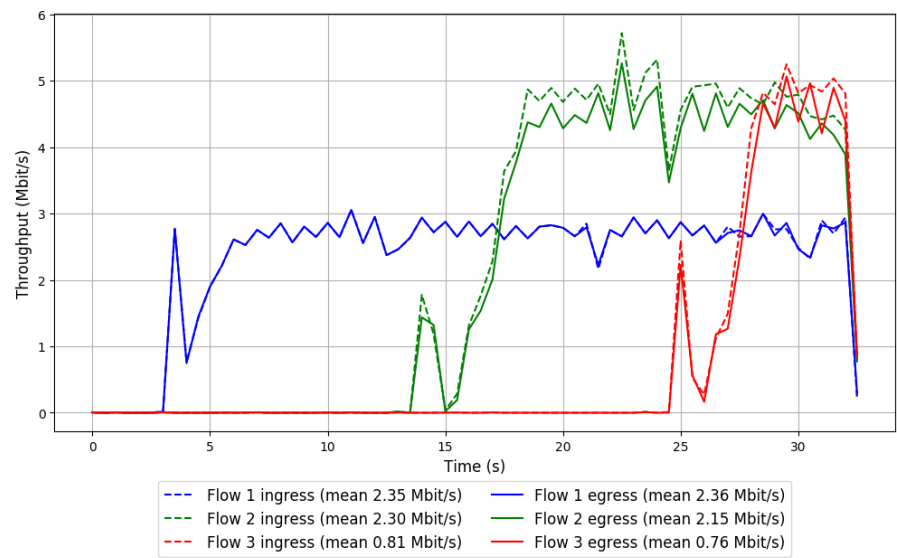
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 49.312 ms

Loss rate: 7.28%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-03 02:27:35

End at: 2018-02-03 02:28:05

Local clock offset: 0.004 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 46.432 ms

Loss rate: 3.79%

-- Flow 1:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 47.051 ms

Loss rate: 4.91%

-- Flow 2:

Average throughput: 1.79 Mbit/s

95th percentile per-packet one-way delay: 45.706 ms

Loss rate: 2.76%

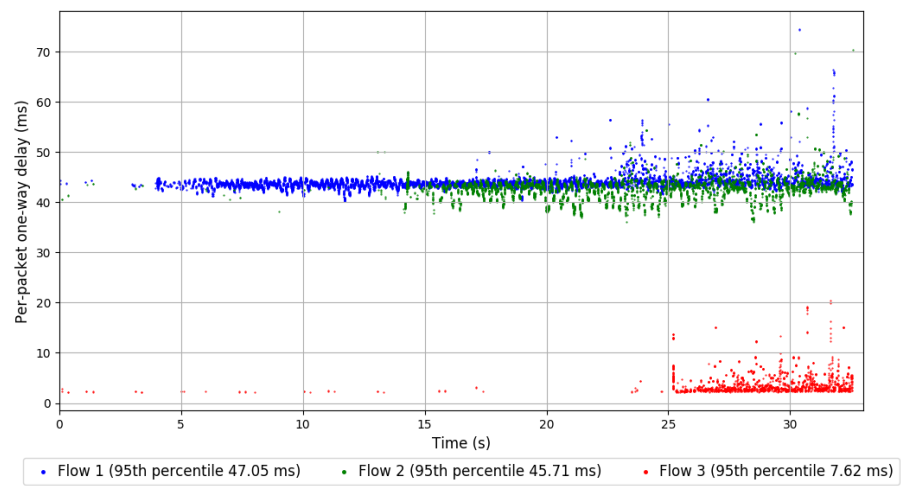
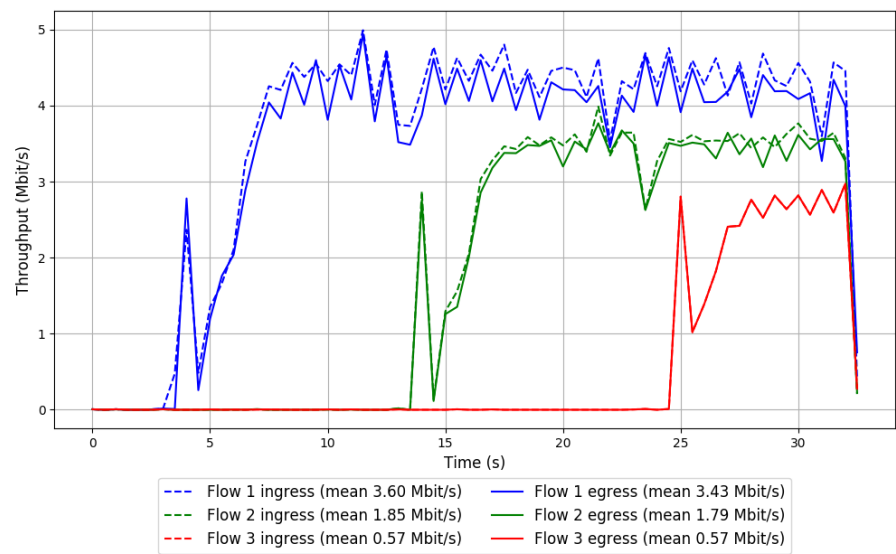
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 7.615 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

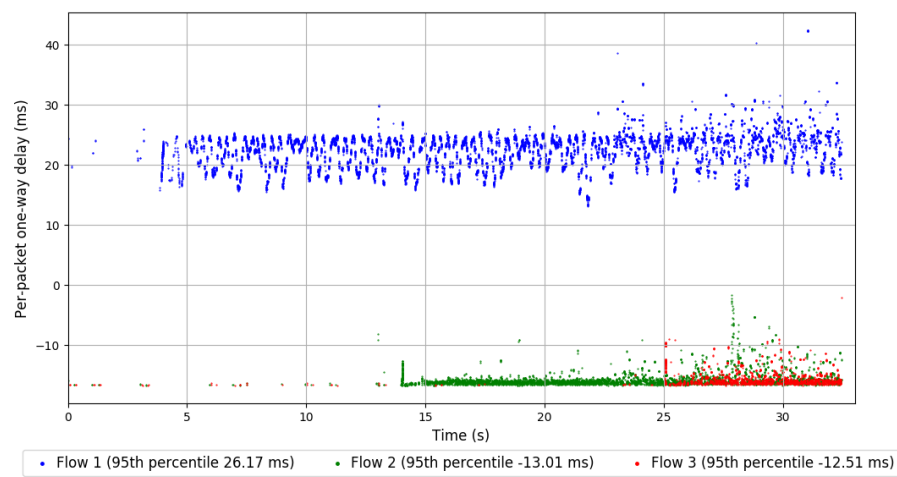
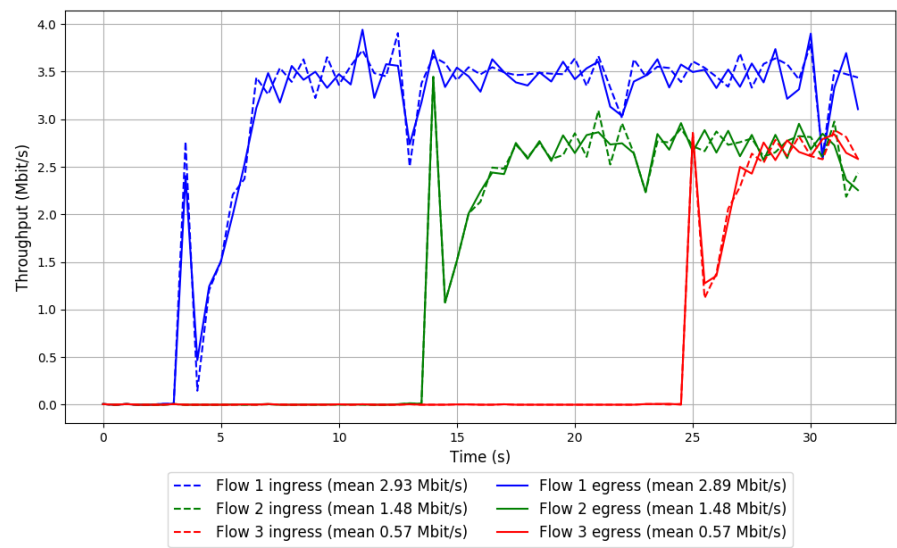


Run 4: Statistics of WebRTC media

Start at: 2018-02-03 02:48:10
End at: 2018-02-03 02:48:40
Local clock offset: -0.107 ms
Remote clock offset: -19.141 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 25.222 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 26.167 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -13.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: -12.512 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

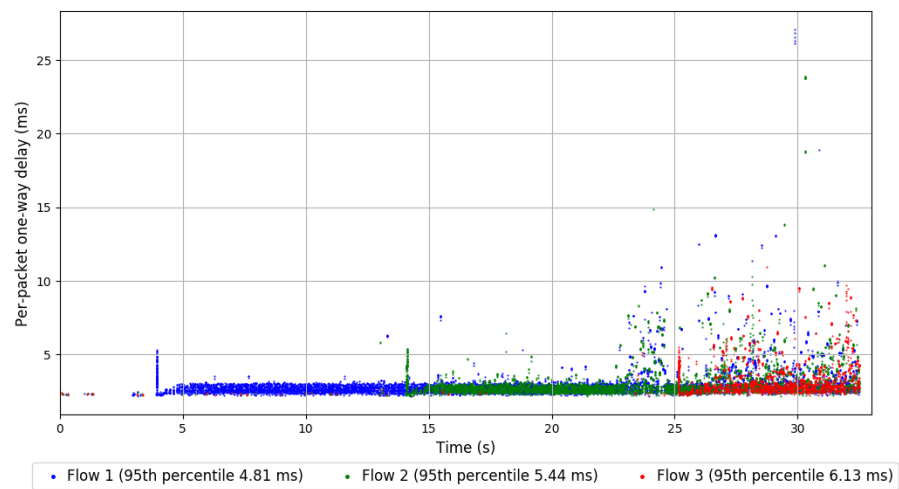
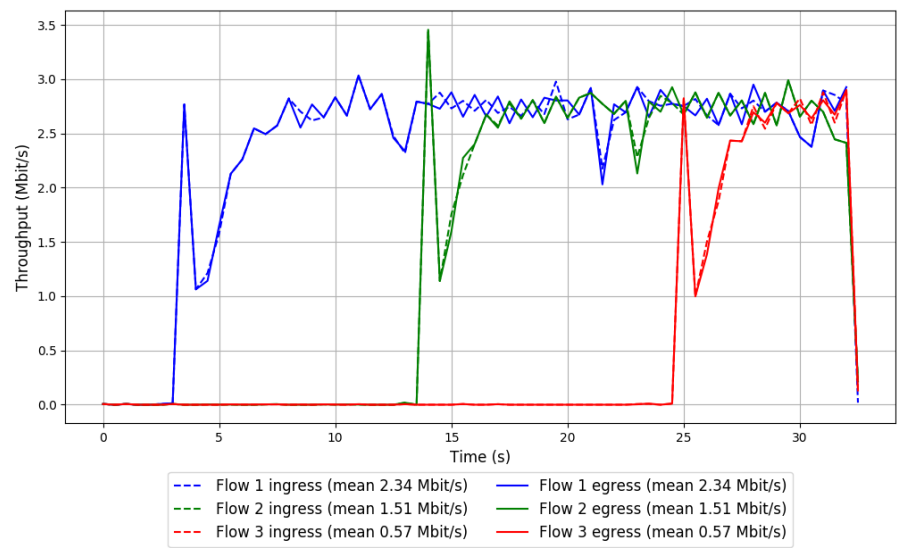


Run 5: Statistics of WebRTC media

Start at: 2018-02-03 03:08:42
End at: 2018-02-03 03:09:12
Local clock offset: -0.068 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-02-03 05:32:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 5.324 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 4.808 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 5.442 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 6.135 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-03 03:29:15

End at: 2018-02-03 03:29:45

Local clock offset: -0.038 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 6.120 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.760 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 6.046 ms

Loss rate: 0.00%

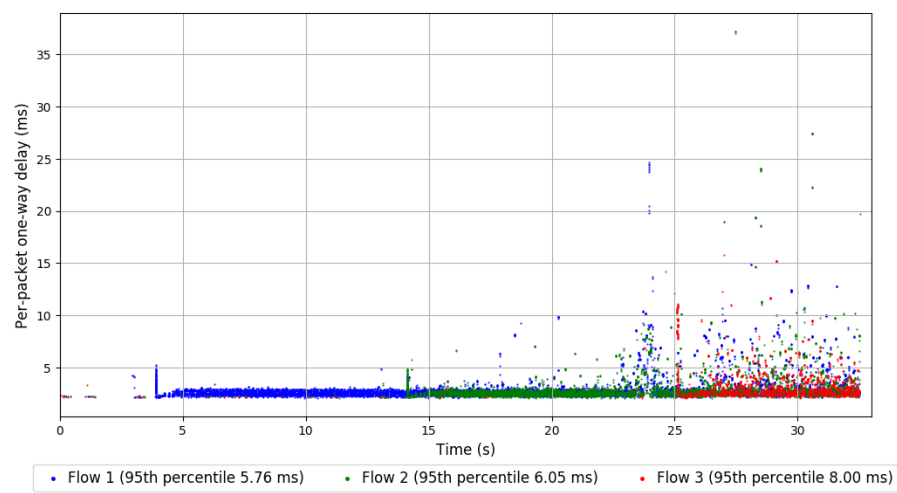
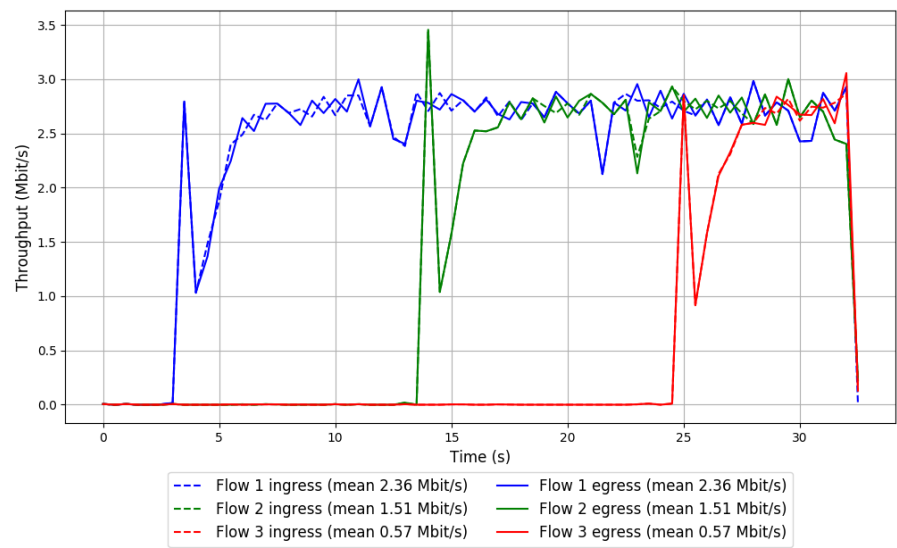
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 8.003 ms

Loss rate: 0.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-03 03:49:46

End at: 2018-02-03 03:50:16

Local clock offset: -0.024 ms

Remote clock offset: 1.797 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 6.164 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 5.313 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 6.132 ms

Loss rate: 0.00%

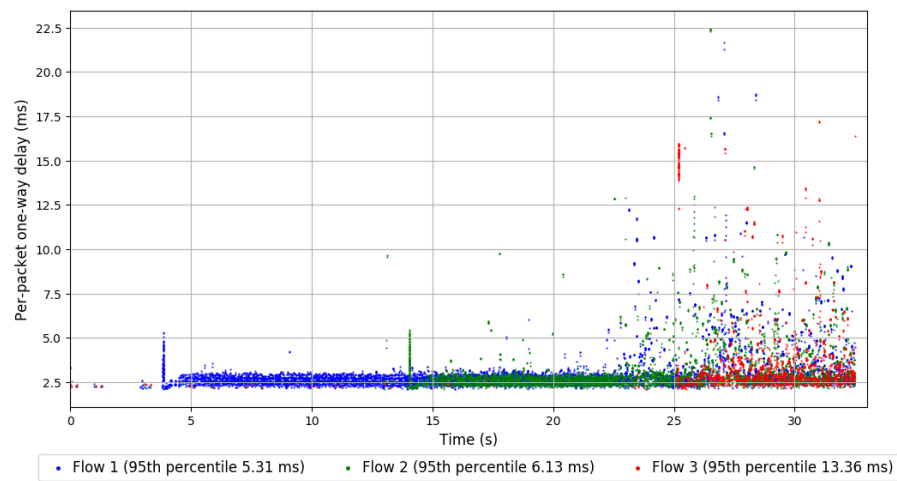
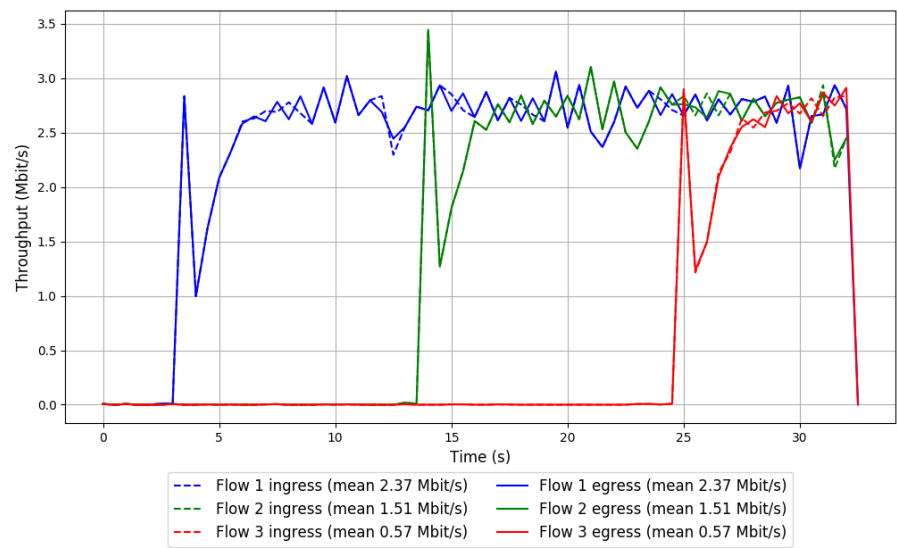
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 13.357 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-03 04:10:20

End at: 2018-02-03 04:10:50

Local clock offset: -0.057 ms

Remote clock offset: 2.075 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 6.116 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.617 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 6.458 ms

Loss rate: 0.00%

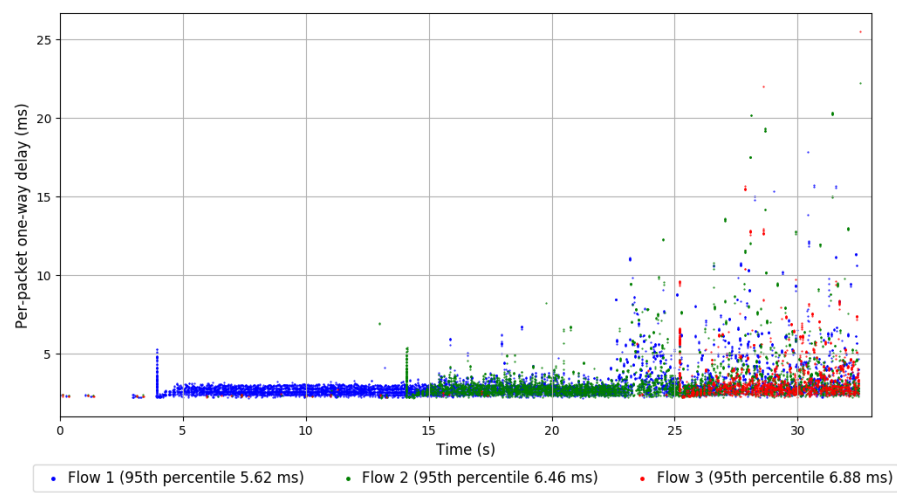
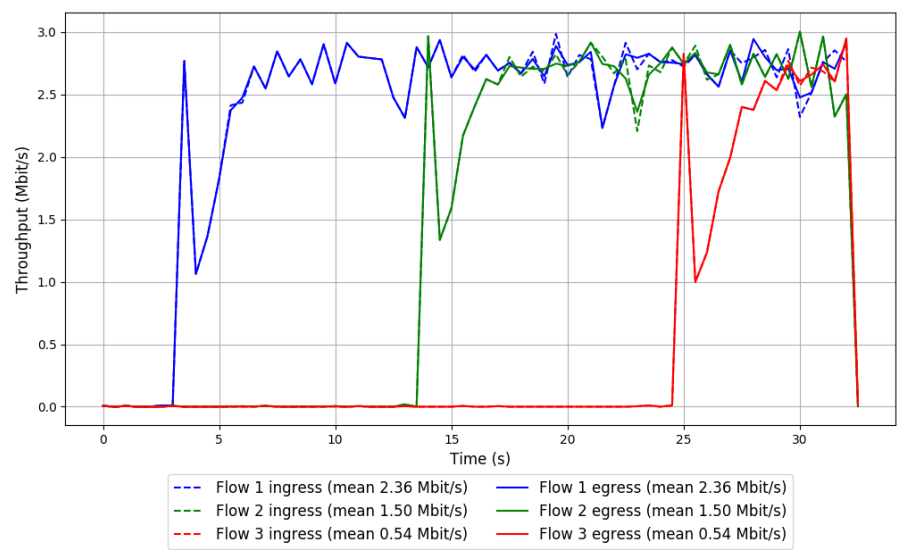
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 6.883 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-03 04:30:54

End at: 2018-02-03 04:31:24

Local clock offset: 0.046 ms

Remote clock offset: 2.197 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 5.738 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 5.386 ms

Loss rate: 0.00%

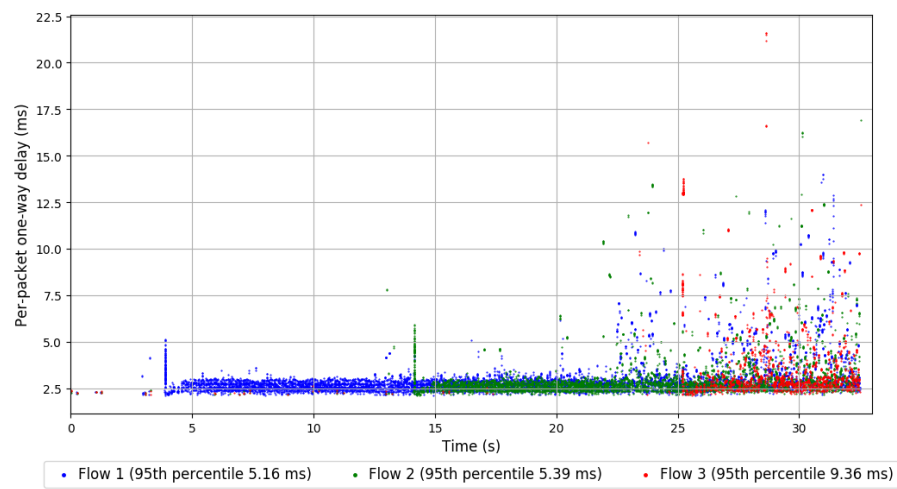
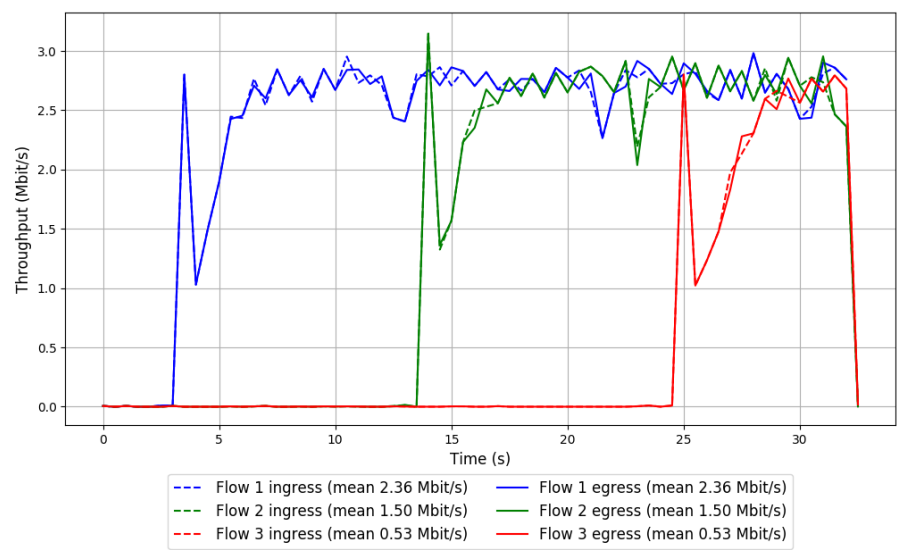
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 9.362 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-03 04:51:28

End at: 2018-02-03 04:51:58

Local clock offset: 0.033 ms

Remote clock offset: 2.178 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 5.848 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 5.899 ms

Loss rate: 0.00%

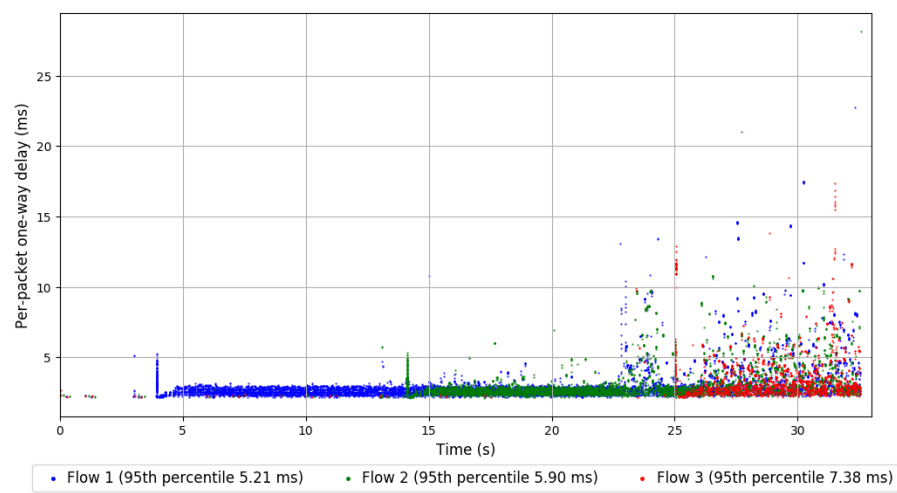
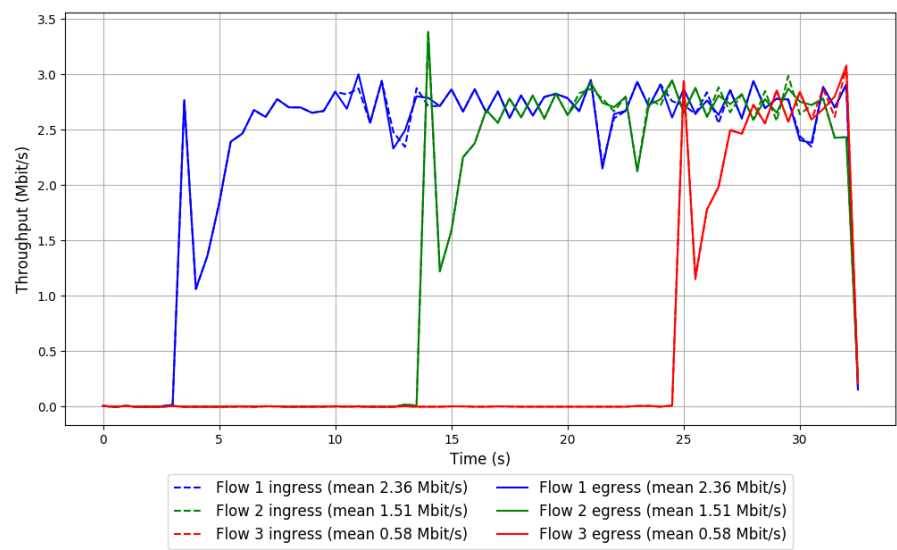
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 7.383 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-03 01:49:48

End at: 2018-02-03 01:50:18

Local clock offset: 0.019 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-02-03 05:32:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.77 Mbit/s

95th percentile per-packet one-way delay: 22.304 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 21.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 23.446 ms

Loss rate: 0.00%

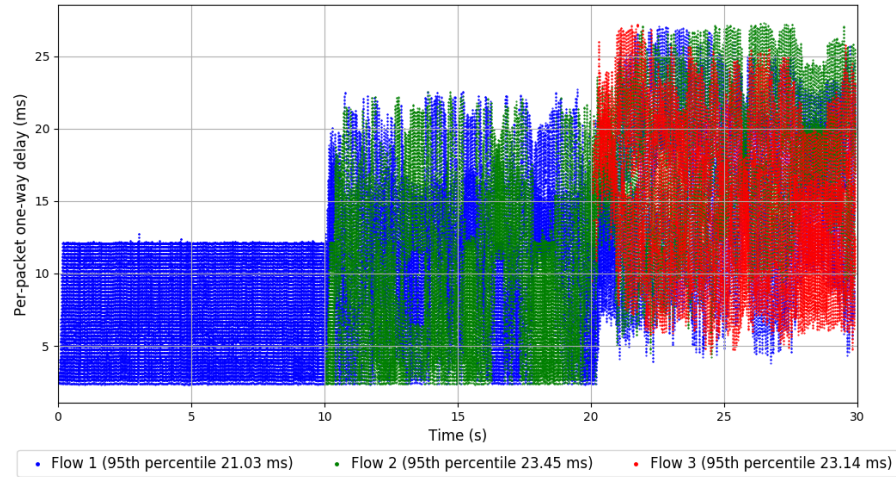
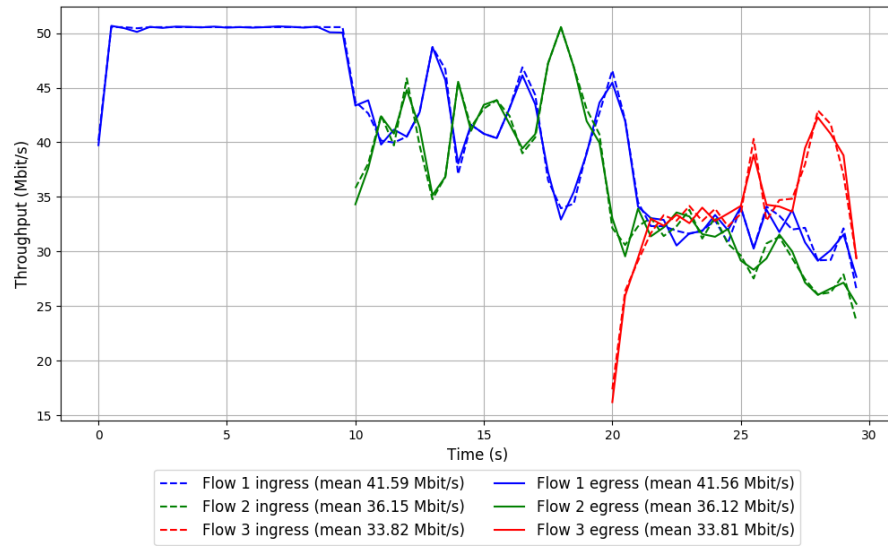
-- Flow 3:

Average throughput: 33.81 Mbit/s

95th percentile per-packet one-way delay: 23.138 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

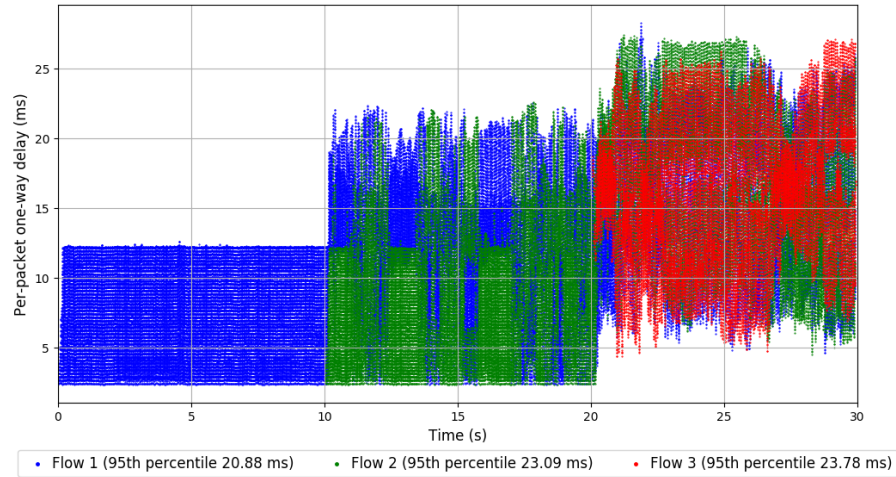
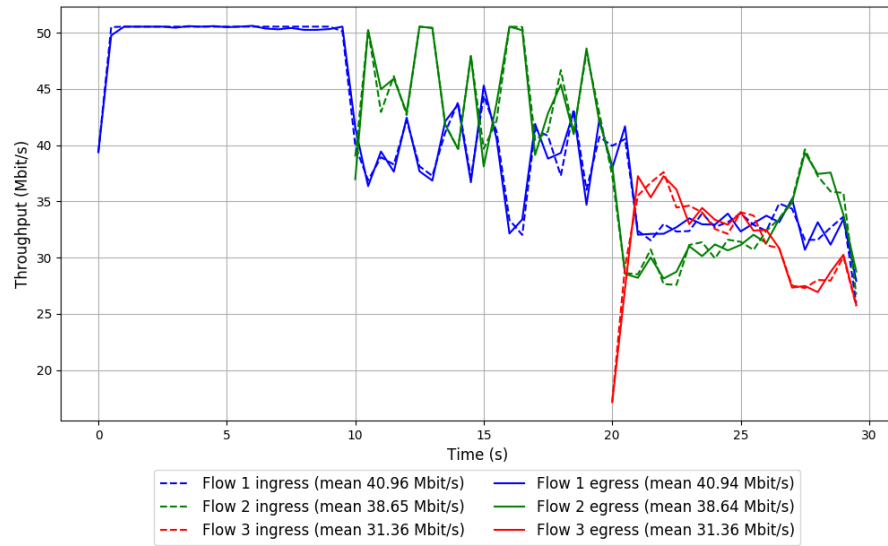


Run 2: Statistics of Sprout

Start at: 2018-02-03 02:10:24
End at: 2018-02-03 02:10:54
Local clock offset: -0.032 ms
Remote clock offset: 0.371 ms

```
# Below is generated by plot.py at 2018-02-03 05:32:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 22.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 20.878 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 23.094 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 23.779 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-03 02:30:58

End at: 2018-02-03 02:31:28

Local clock offset: 0.012 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-02-03 05:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.07 Mbit/s

95th percentile per-packet one-way delay: 21.998 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 21.575 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 22.044 ms

Loss rate: 0.00%

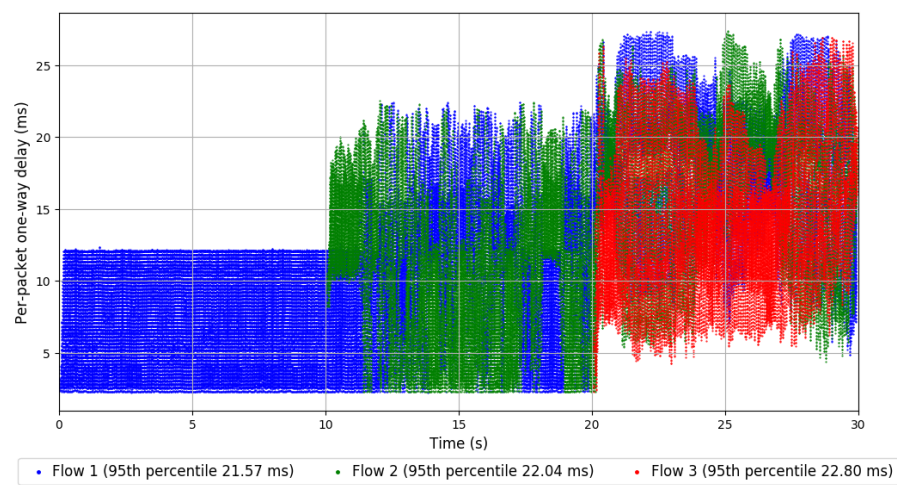
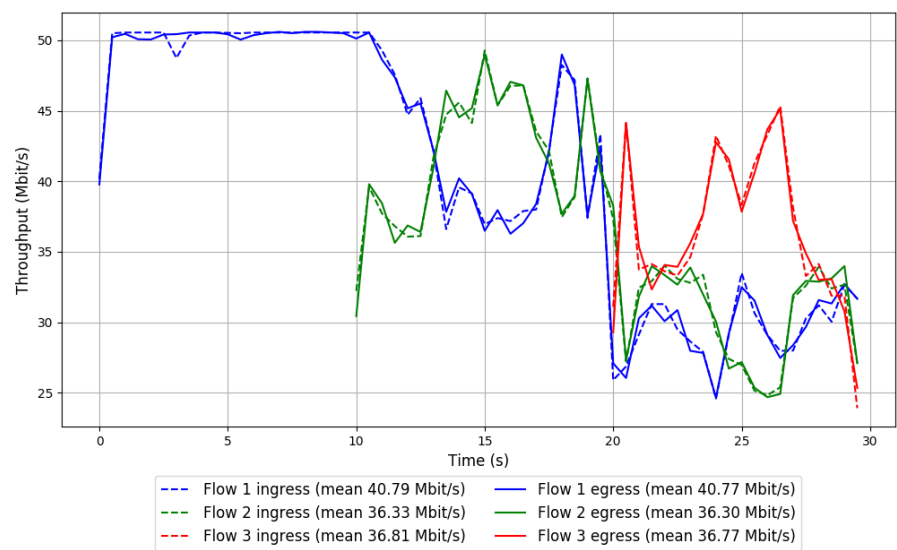
-- Flow 3:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 22.797 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

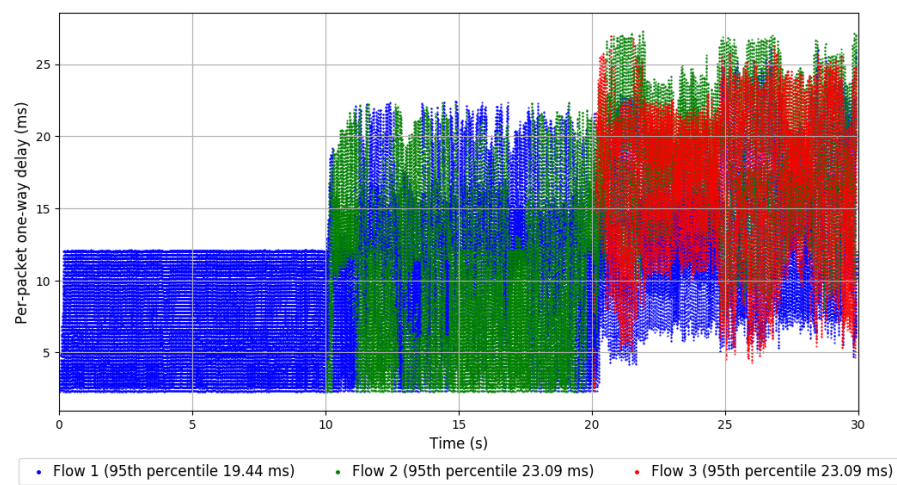
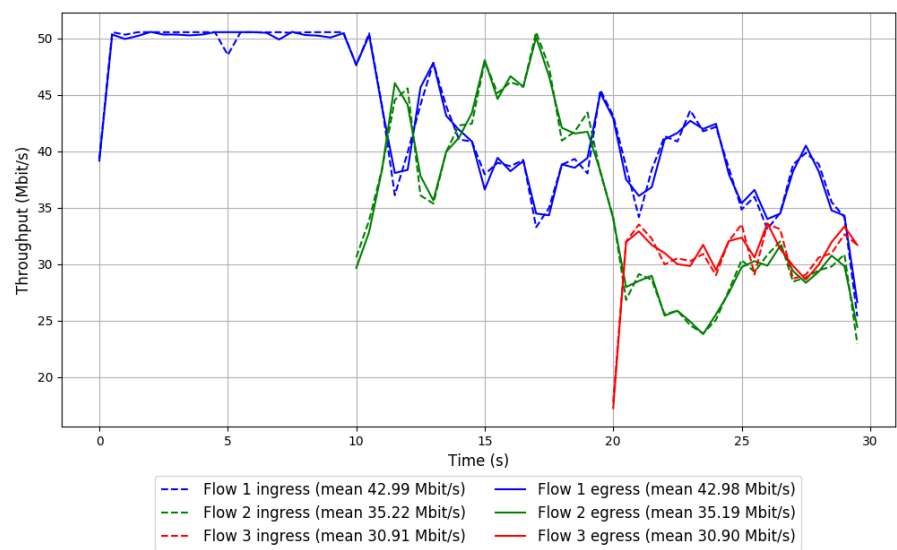


Run 4: Statistics of Sprout

Start at: 2018-02-03 02:51:33
End at: 2018-02-03 02:52:03
Local clock offset: -0.032 ms
Remote clock offset: -0.119 ms

```
# Below is generated by plot.py at 2018-02-03 05:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 21.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 19.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 23.094 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 23.095 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

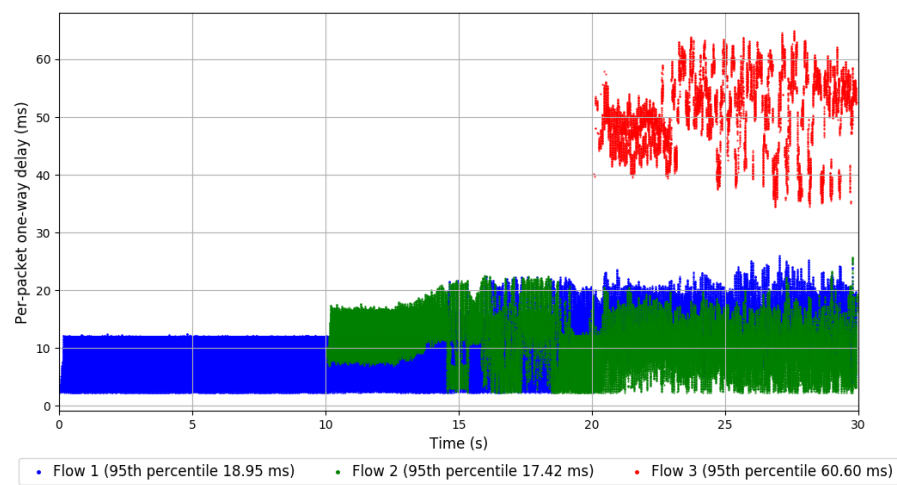
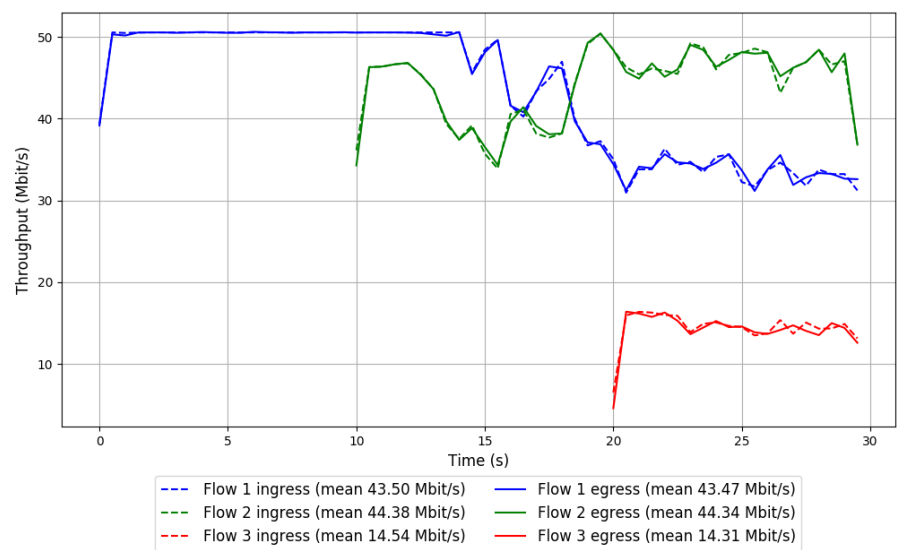


Run 5: Statistics of Sprout

Start at: 2018-02-03 03:12:06
End at: 2018-02-03 03:12:36
Local clock offset: -0.057 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-02-03 05:33:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.70 Mbit/s
95th percentile per-packet one-way delay: 44.194 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 18.945 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 17.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 60.602 ms
Loss rate: 1.80%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-03 03:32:38

End at: 2018-02-03 03:33:08

Local clock offset: -0.06 ms

Remote clock offset: 0.539 ms

Below is generated by plot.py at 2018-02-03 05:33:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.88 Mbit/s

95th percentile per-packet one-way delay: 21.928 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 21.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 21.171 ms

Loss rate: 0.00%

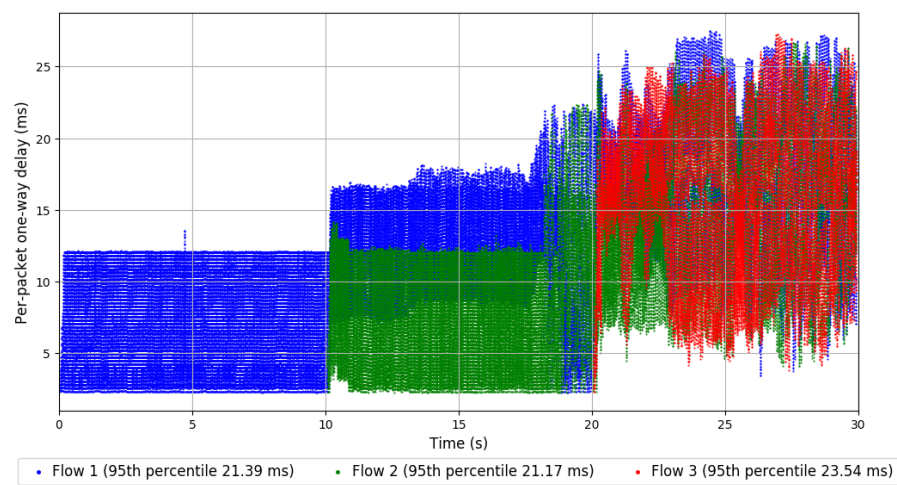
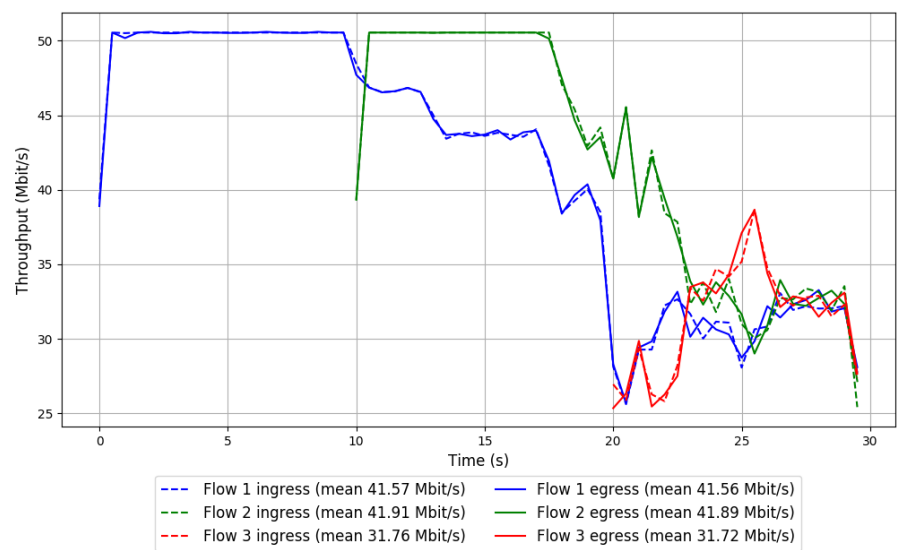
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 23.540 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

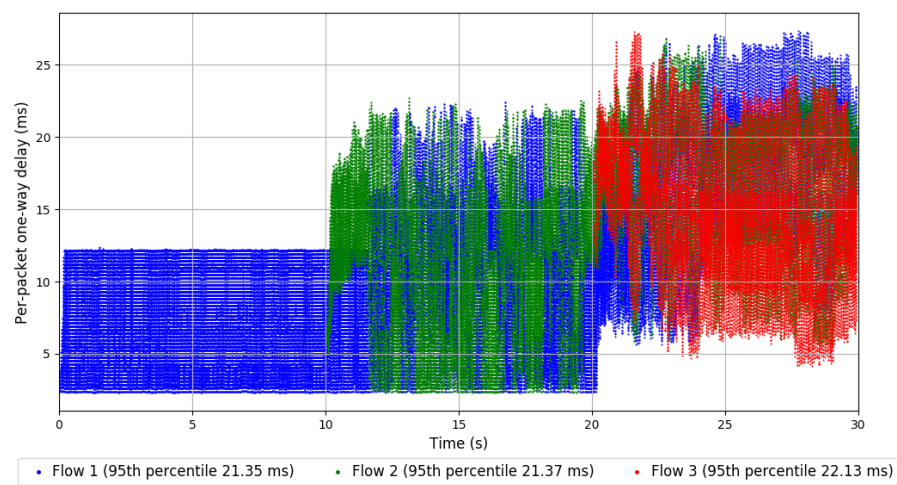
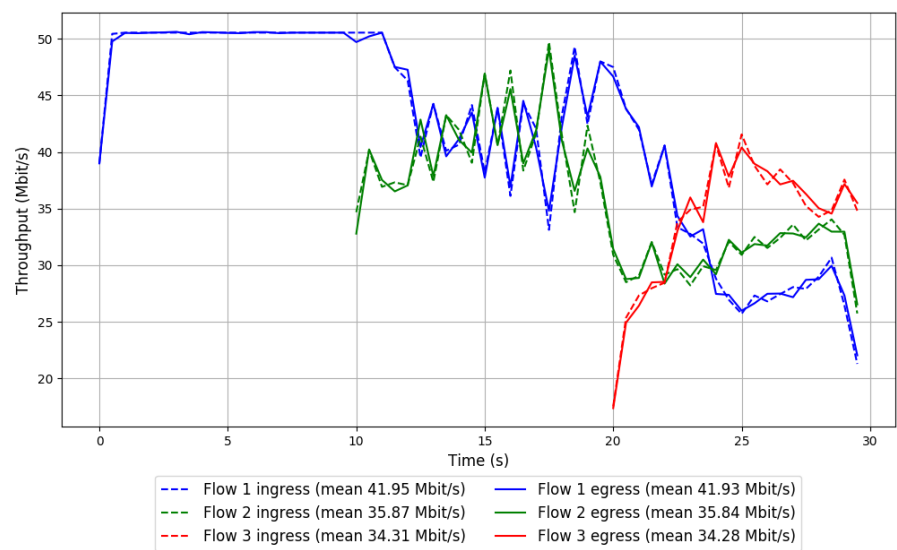


Run 7: Statistics of Sprout

Start at: 2018-02-03 03:53:09
End at: 2018-02-03 03:53:39
Local clock offset: -0.087 ms
Remote clock offset: 1.969 ms

```
# Below is generated by plot.py at 2018-02-03 05:33:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 21.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.93 Mbit/s
95th percentile per-packet one-way delay: 21.346 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 21.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 22.132 ms
Loss rate: 0.00%
```


Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-03 04:13:43

End at: 2018-02-03 04:14:13

Local clock offset: -0.006 ms

Remote clock offset: 2.094 ms

Below is generated by plot.py at 2018-02-03 05:33:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 21.452 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.16 Mbit/s

95th percentile per-packet one-way delay: 20.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 21.895 ms

Loss rate: 0.00%

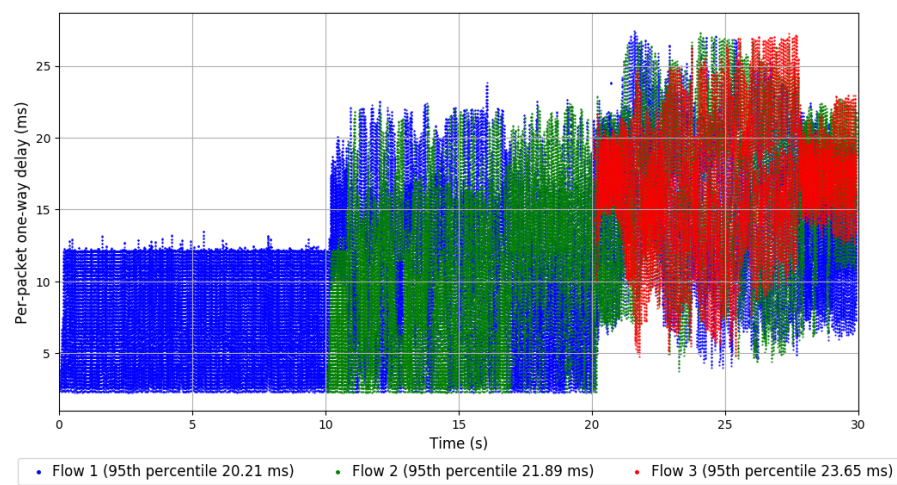
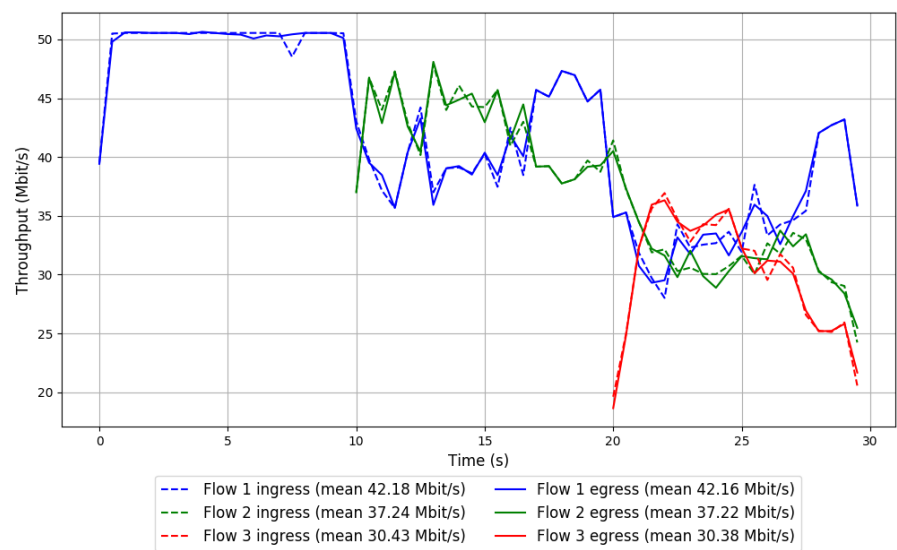
-- Flow 3:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 23.654 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

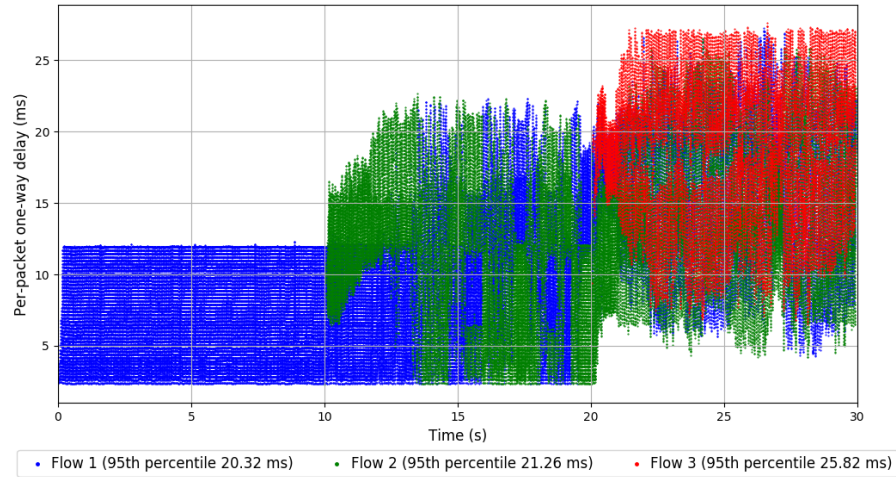
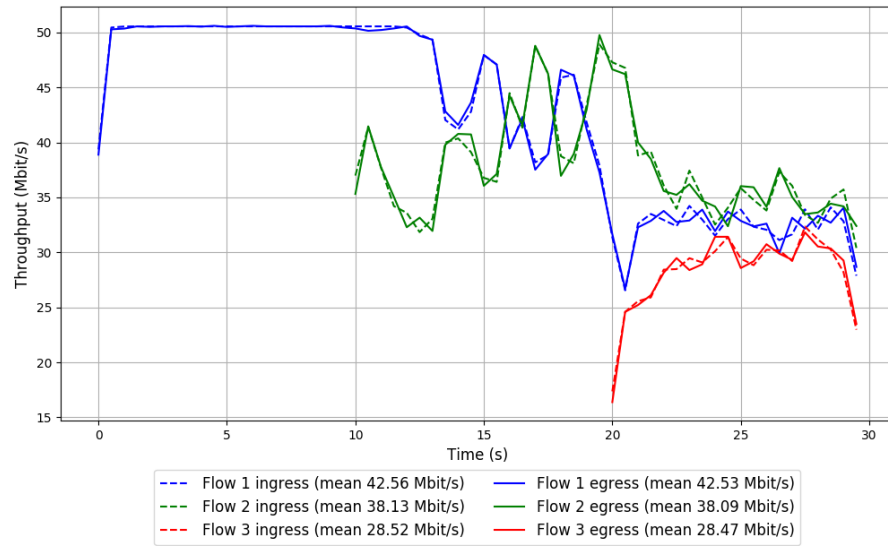


Run 9: Statistics of Sprout

Start at: 2018-02-03 04:34:17
End at: 2018-02-03 04:34:47
Local clock offset: 0.008 ms
Remote clock offset: 2.2 ms

Below is generated by plot.py at 2018-02-03 05:33:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.28 Mbit/s
95th percentile per-packet one-way delay: 22.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 20.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.09 Mbit/s
95th percentile per-packet one-way delay: 21.263 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.47 Mbit/s
95th percentile per-packet one-way delay: 25.823 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

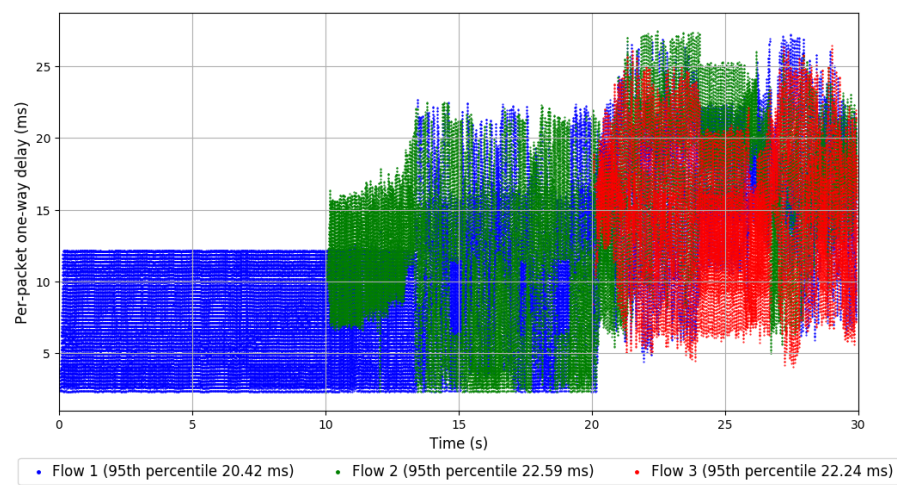
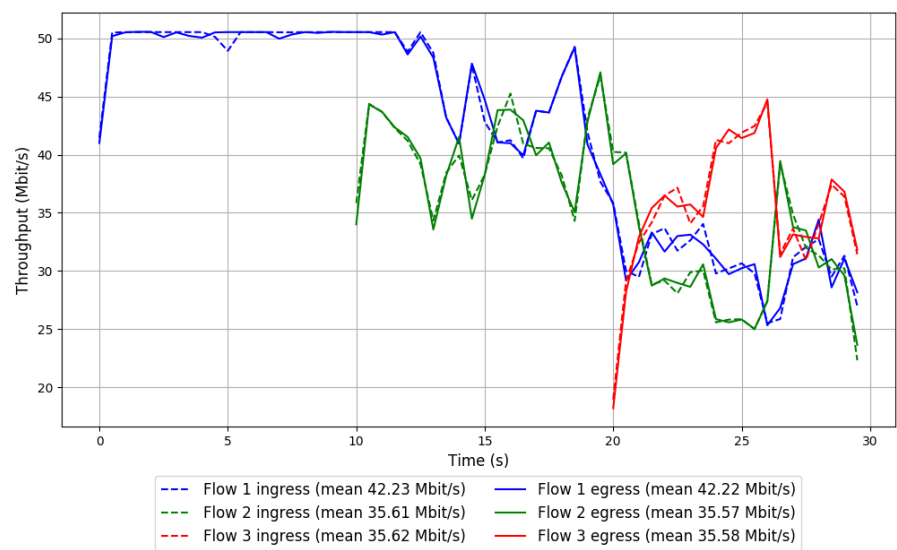


Run 10: Statistics of Sprout

Start at: 2018-02-03 04:54:51
End at: 2018-02-03 04:55:21
Local clock offset: -0.024 ms
Remote clock offset: 2.181 ms

Below is generated by plot.py at 2018-02-03 05:33:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.64 Mbit/s
95th percentile per-packet one-way delay: 21.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.22 Mbit/s
95th percentile per-packet one-way delay: 20.421 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 22.594 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 22.237 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

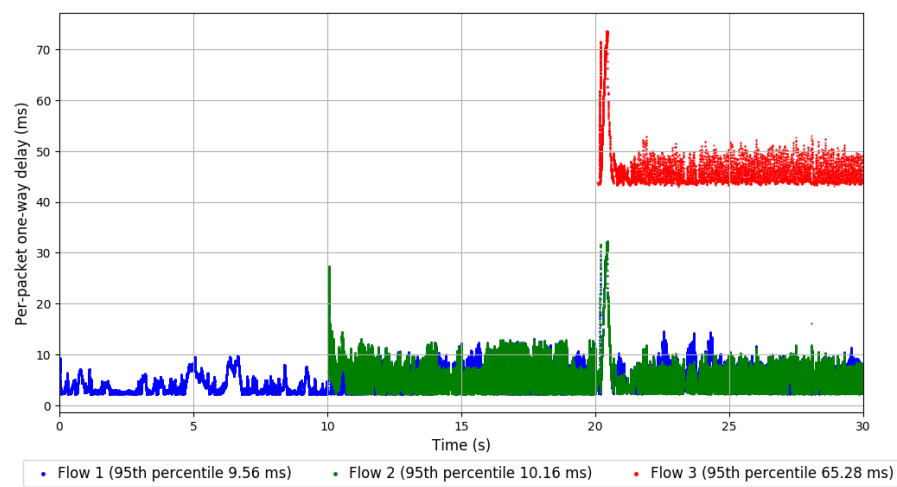
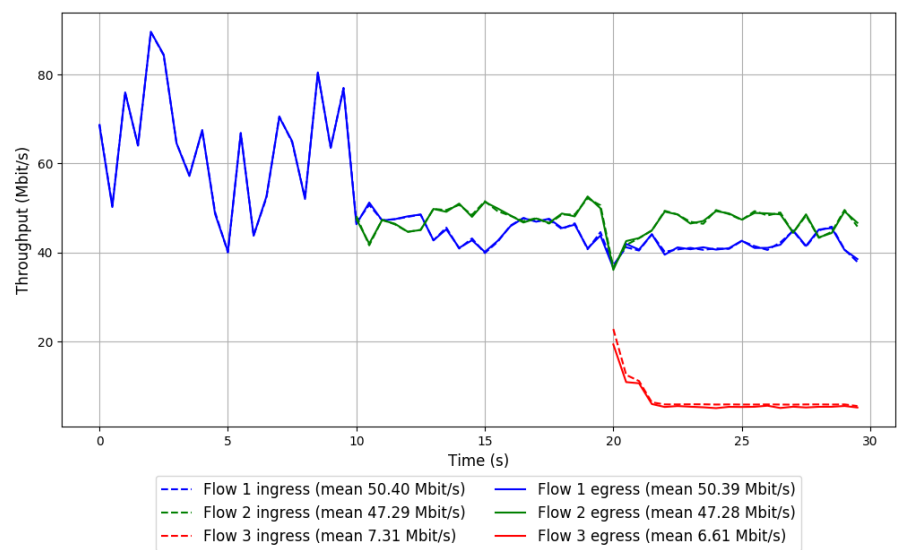


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-03 01:31:31
End at: 2018-02-03 01:32:01
Local clock offset: 0.149 ms
Remote clock offset: 0.81 ms

# Below is generated by plot.py at 2018-02-03 05:34:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.05 Mbit/s
95th percentile per-packet one-way delay: 11.170 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 9.558 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 10.159 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 65.278 ms
Loss rate: 9.94%
```


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

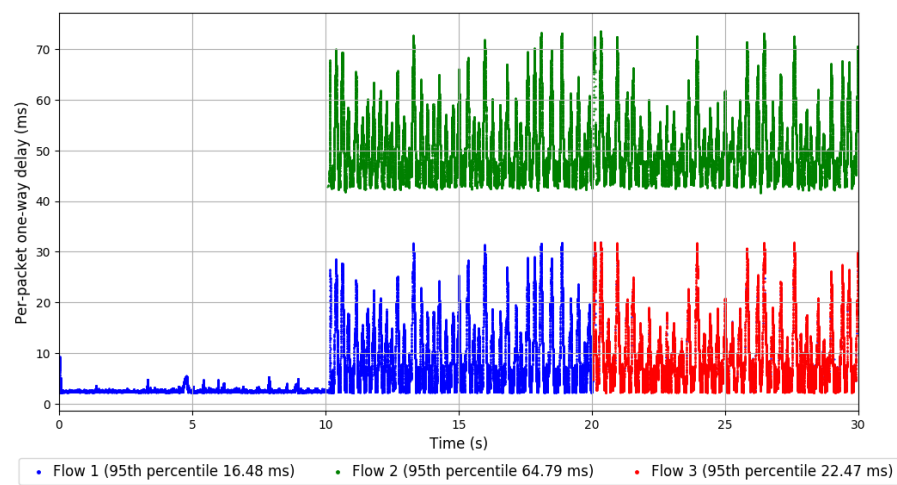
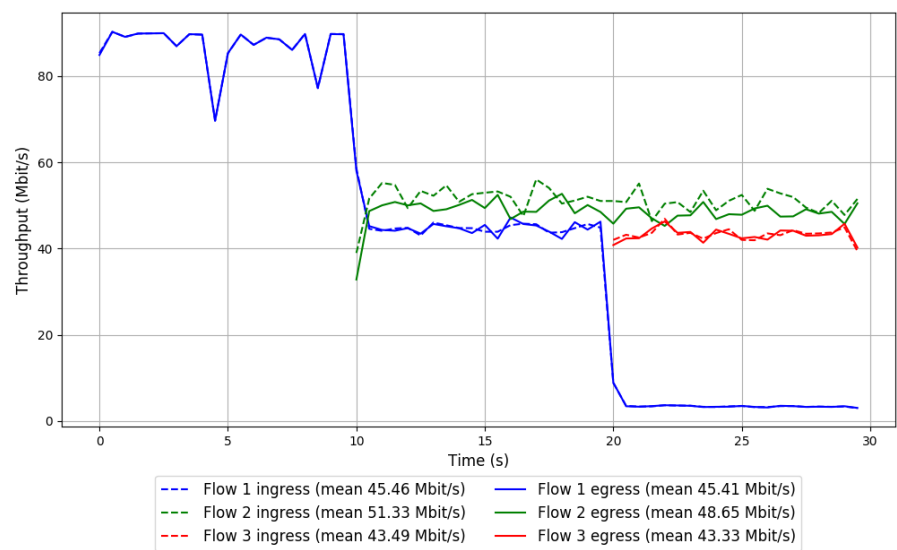


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-03 01:52:04
End at: 2018-02-03 01:52:34
Local clock offset: 0.077 ms
Remote clock offset: 0.619 ms

# Below is generated by plot.py at 2018-02-03 05:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 58.294 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 45.41 Mbit/s
95th percentile per-packet one-way delay: 16.479 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 48.65 Mbit/s
95th percentile per-packet one-way delay: 64.788 ms
Loss rate: 5.28%
-- Flow 3:
Average throughput: 43.33 Mbit/s
95th percentile per-packet one-way delay: 22.473 ms
Loss rate: 0.16%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-03 02:12:39

End at: 2018-02-03 02:13:09

Local clock offset: 0.029 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-02-03 05:35:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 53.945 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 46.68 Mbit/s

95th percentile per-packet one-way delay: 59.354 ms

Loss rate: 6.31%

-- Flow 2:

Average throughput: 43.22 Mbit/s

95th percentile per-packet one-way delay: 19.969 ms

Loss rate: 0.05%

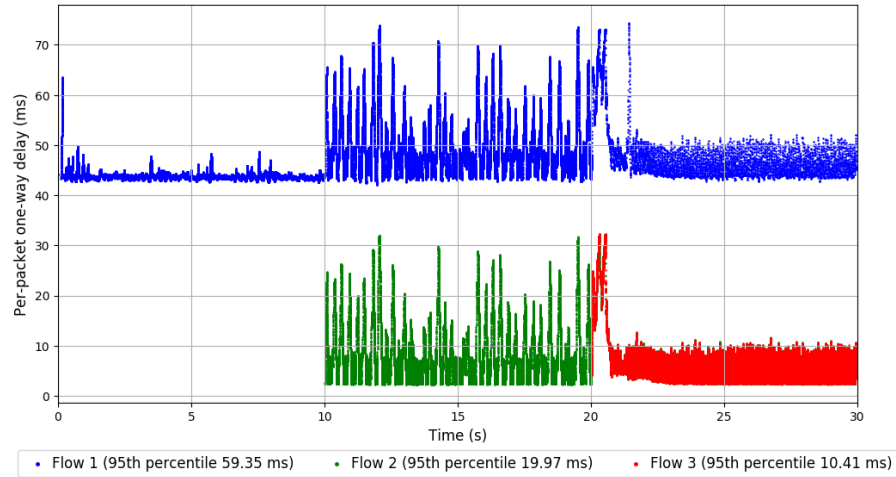
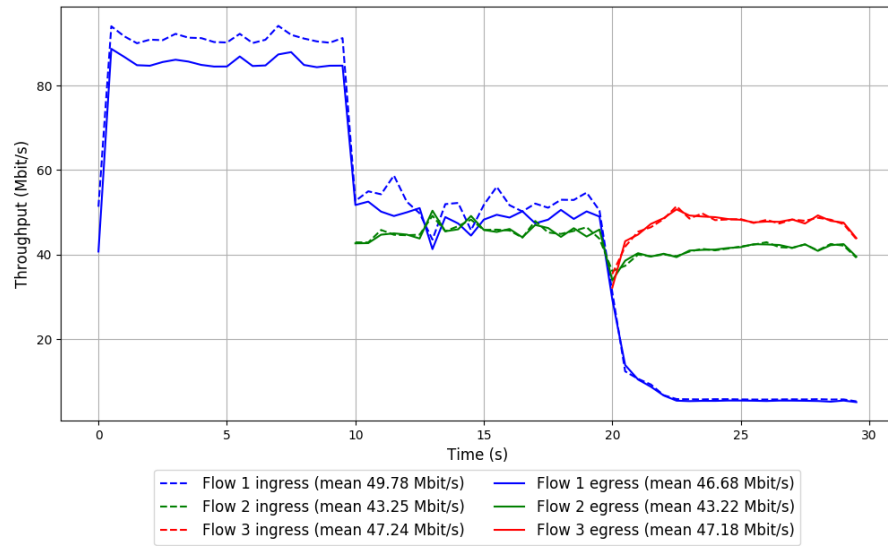
-- Flow 3:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 10.412 ms

Loss rate: 0.14%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-03 02:33:13

End at: 2018-02-03 02:33:43

Local clock offset: -0.043 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-02-03 05:35:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 10.859 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 59.47 Mbit/s

95th percentile per-packet one-way delay: 10.265 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 11.384 ms

Loss rate: 0.01%

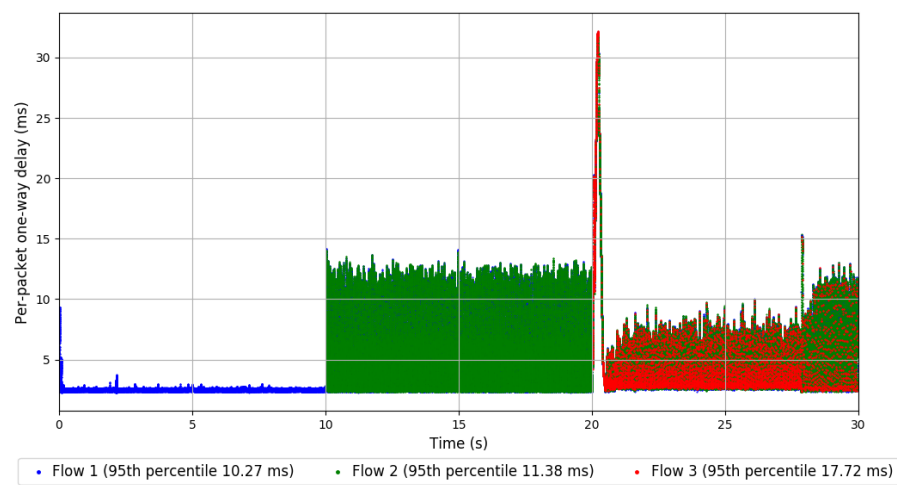
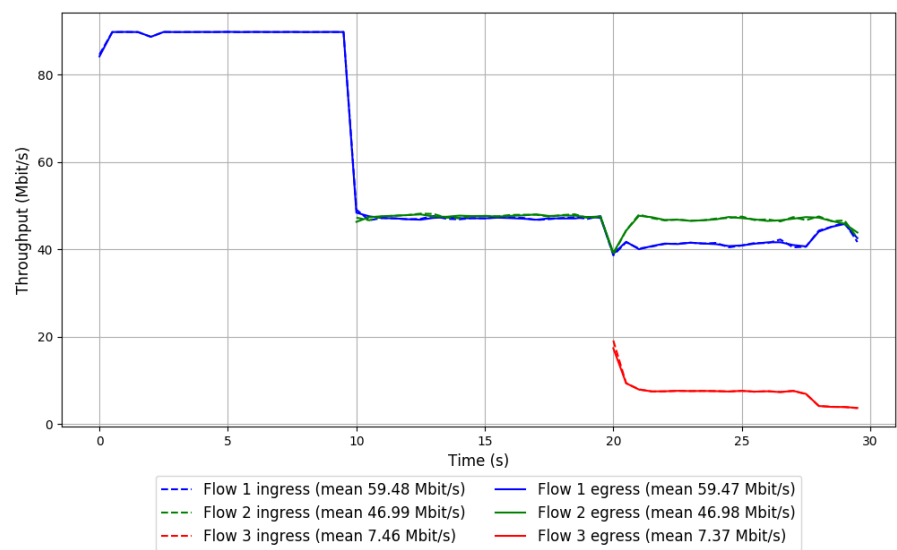
-- Flow 3:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 17.722 ms

Loss rate: 1.14%

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

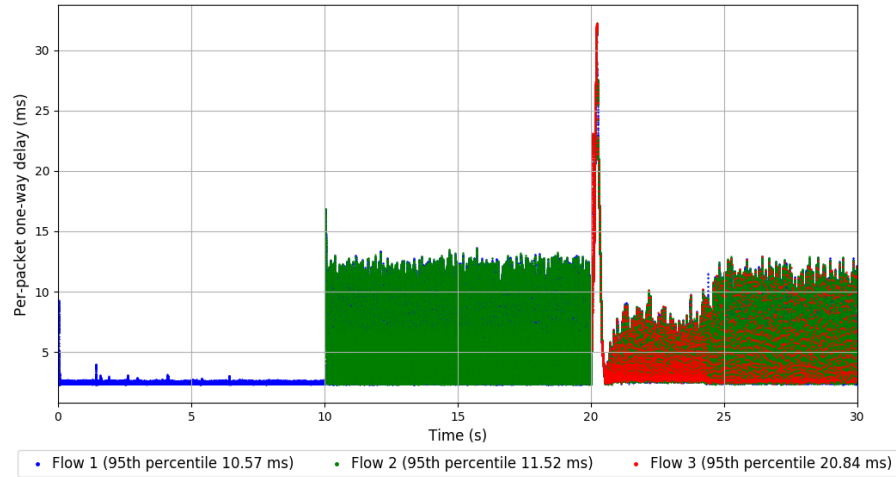
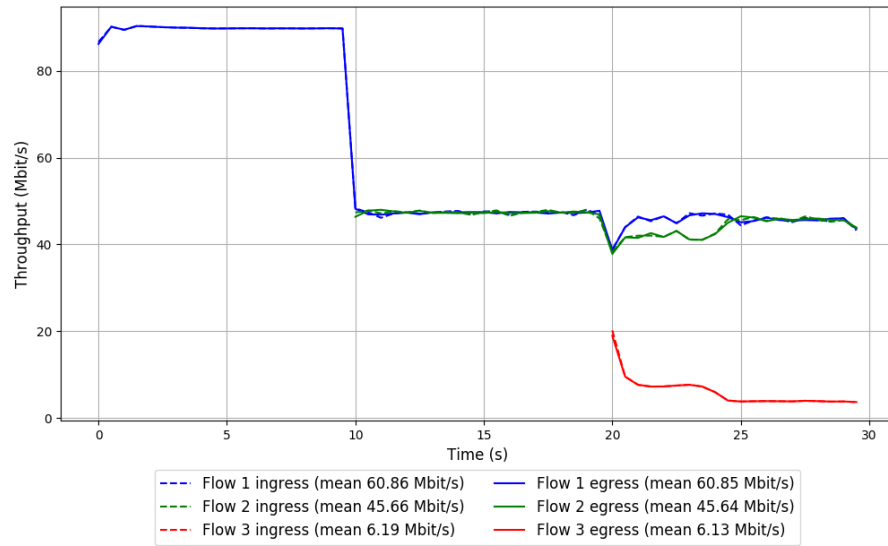


Run 5: Statistics of TaoVA-100x

Start at: 2018-02-03 02:53:48
End at: 2018-02-03 02:54:18
Local clock offset: -0.052 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-02-03 05:35:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 11.085 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.85 Mbit/s
95th percentile per-packet one-way delay: 10.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.64 Mbit/s
95th percentile per-packet one-way delay: 11.521 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 20.840 ms
Loss rate: 0.96%

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

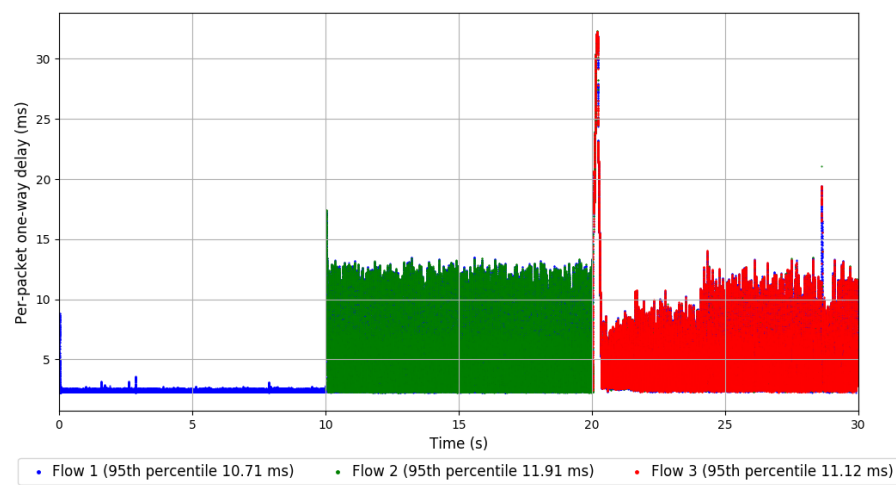
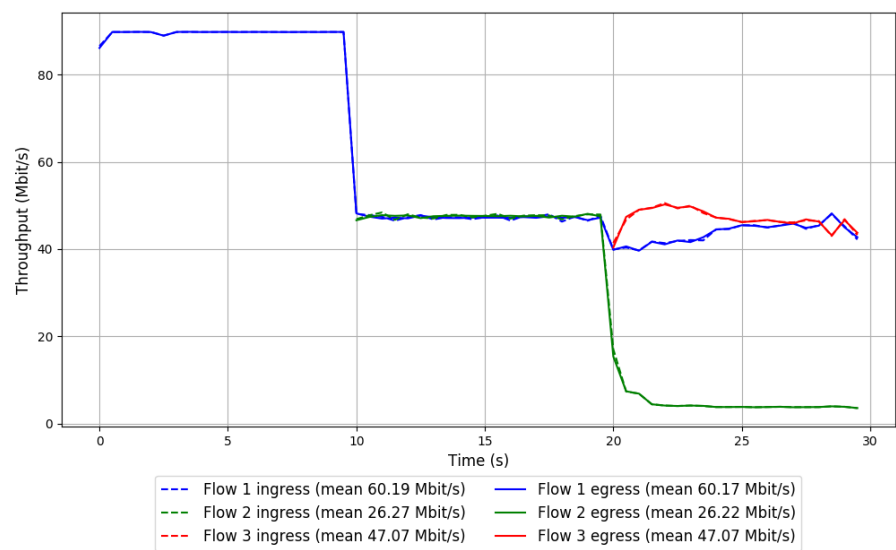


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-03 03:14:20
End at: 2018-02-03 03:14:50
Local clock offset: -0.025 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-02-03 05:36:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 11.188 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 60.17 Mbit/s
95th percentile per-packet one-way delay: 10.708 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 11.915 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 11.123 ms
Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-03 03:34:53

End at: 2018-02-03 03:35:23

Local clock offset: -0.077 ms

Remote clock offset: 0.718 ms

Below is generated by plot.py at 2018-02-03 05:36:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 10.752 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 10.412 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 28.36 Mbit/s

95th percentile per-packet one-way delay: 11.787 ms

Loss rate: 0.10%

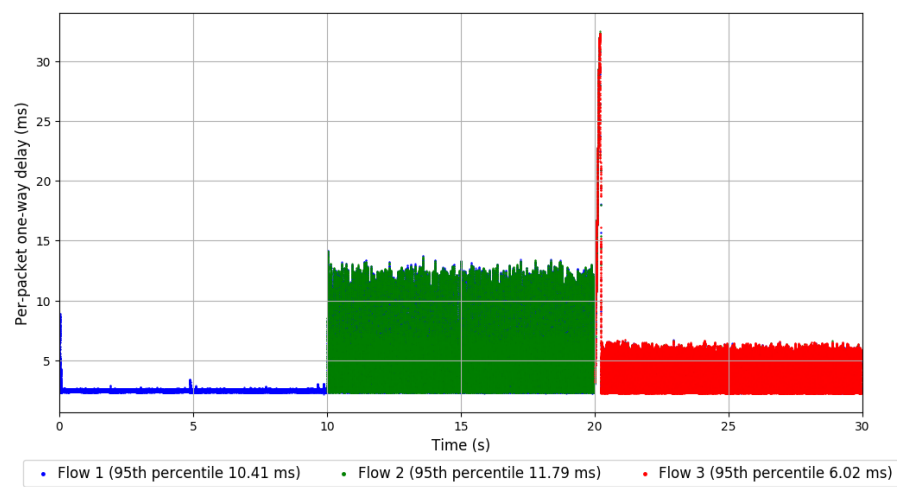
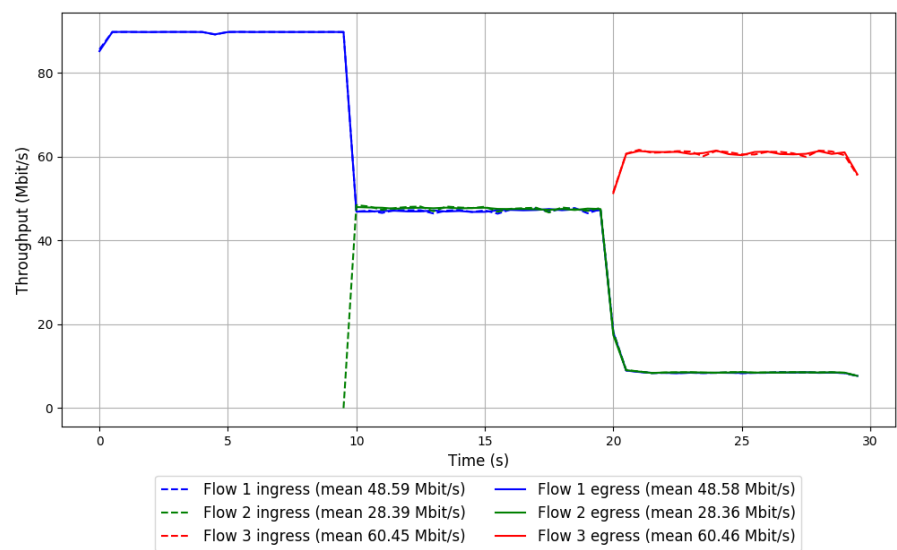
-- Flow 3:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 6.022 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-03 03:55:24

End at: 2018-02-03 03:55:54

Local clock offset: -0.011 ms

Remote clock offset: 2.033 ms

Below is generated by plot.py at 2018-02-03 05:36:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 11.171 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 10.695 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.24 Mbit/s

95th percentile per-packet one-way delay: 11.906 ms

Loss rate: 0.04%

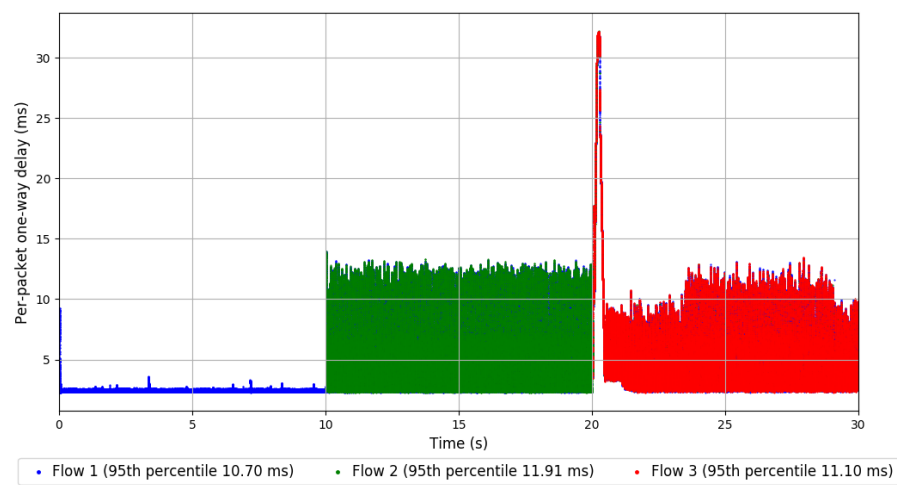
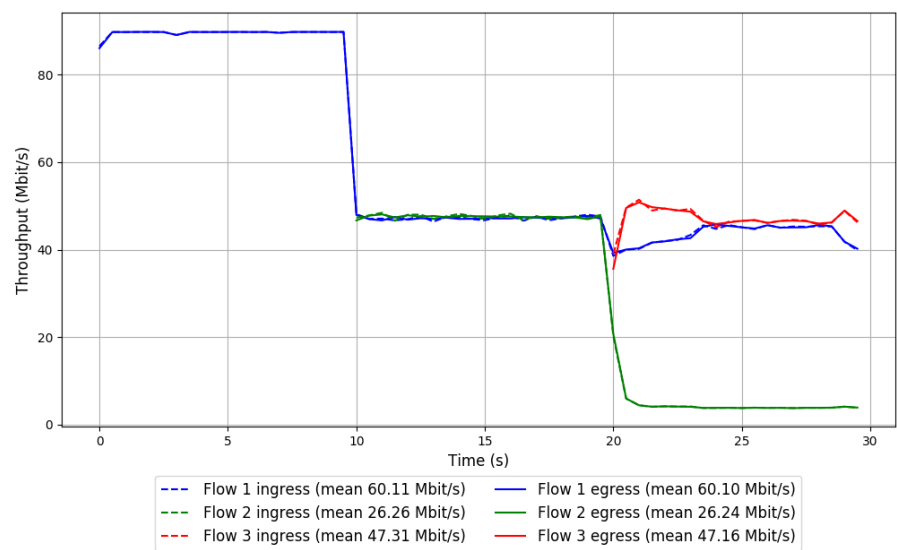
-- Flow 3:

Average throughput: 47.16 Mbit/s

95th percentile per-packet one-way delay: 11.103 ms

Loss rate: 0.32%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-03 04:15:57

End at: 2018-02-03 04:16:27

Local clock offset: 0.018 ms

Remote clock offset: 2.115 ms

Below is generated by plot.py at 2018-02-03 05:37:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 10.937 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 61.00 Mbit/s

95th percentile per-packet one-way delay: 10.278 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 11.471 ms

Loss rate: 0.01%

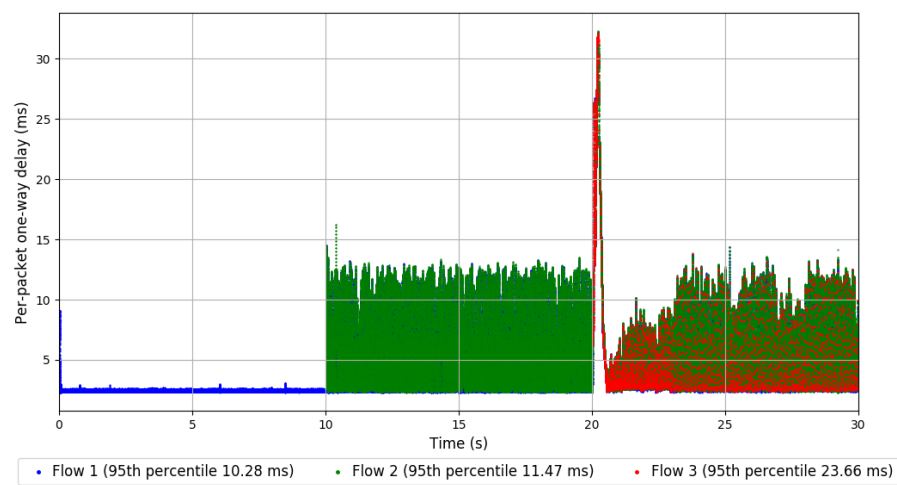
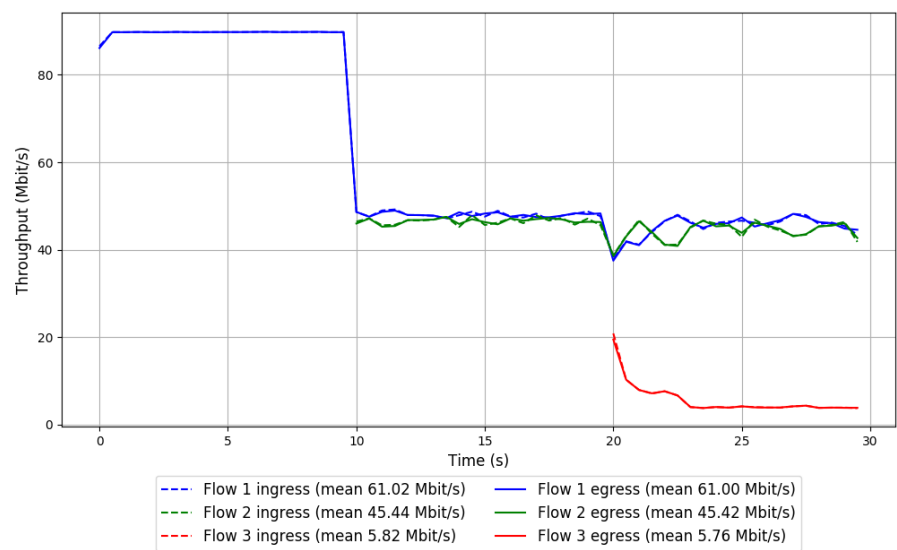
-- Flow 3:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 23.655 ms

Loss rate: 1.10%

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

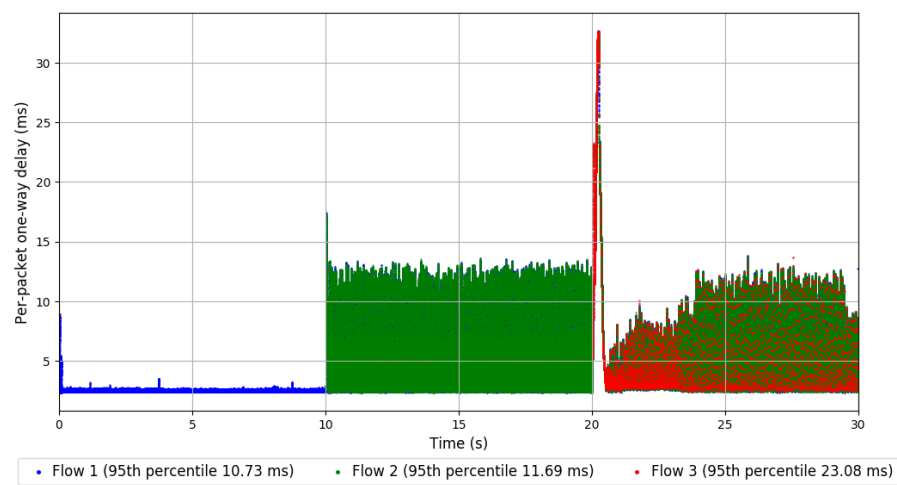
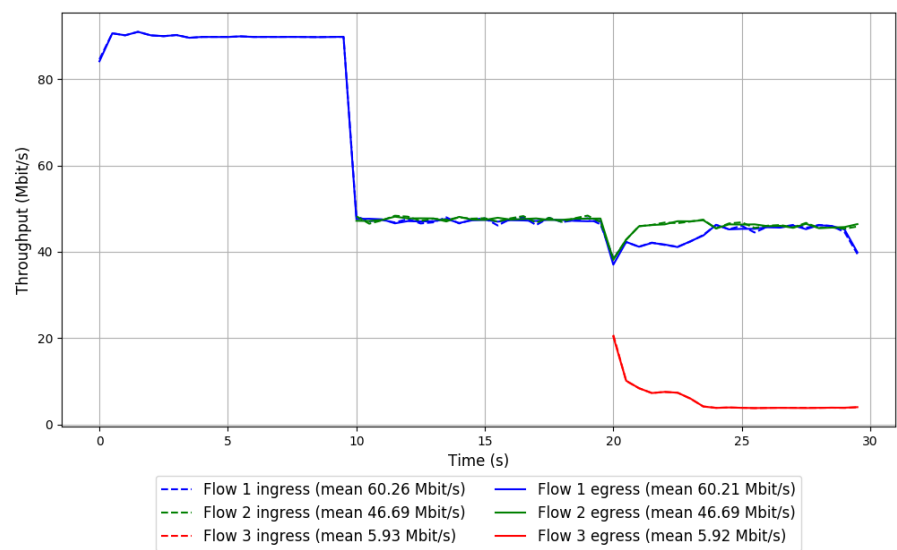


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-03 04:36:31
End at: 2018-02-03 04:37:01
Local clock offset: -0.044 ms
Remote clock offset: 2.182 ms

# Below is generated by plot.py at 2018-02-03 05:37:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 11.257 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.21 Mbit/s
95th percentile per-packet one-way delay: 10.727 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 46.69 Mbit/s
95th percentile per-packet one-way delay: 11.687 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.92 Mbit/s
95th percentile per-packet one-way delay: 23.081 ms
Loss rate: 0.23%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-03 01:36:02

End at: 2018-02-03 01:36:32

Local clock offset: 0.124 ms

Remote clock offset: 0.791 ms

Below is generated by plot.py at 2018-02-03 05:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 5.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.73 Mbit/s

95th percentile per-packet one-way delay: 13.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.47 Mbit/s

95th percentile per-packet one-way delay: 5.389 ms

Loss rate: 0.00%

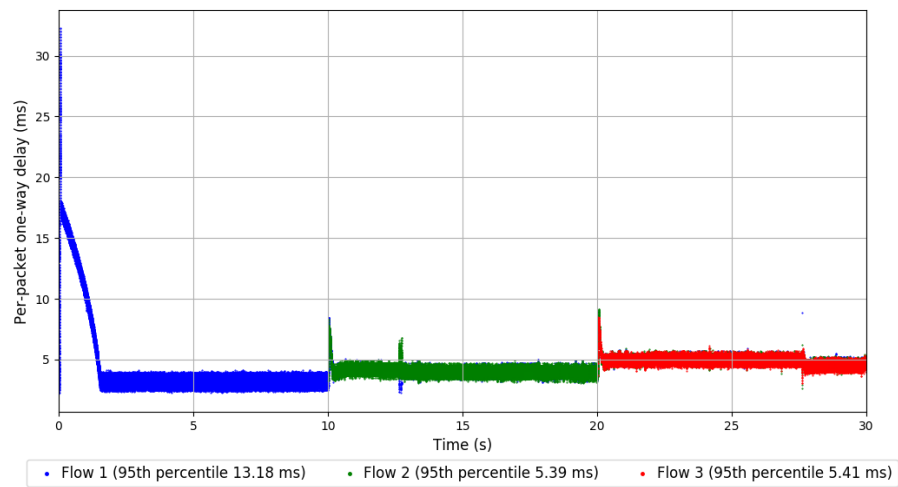
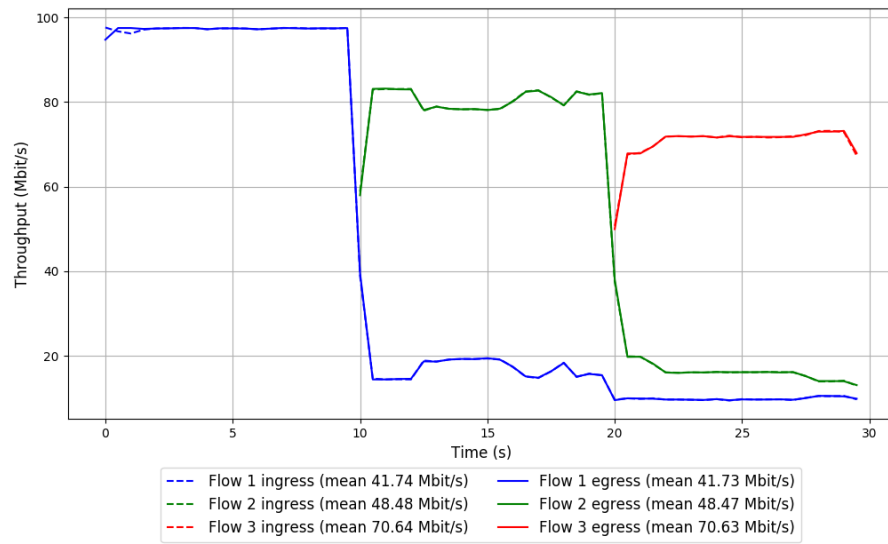
-- Flow 3:

Average throughput: 70.63 Mbit/s

95th percentile per-packet one-way delay: 5.413 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

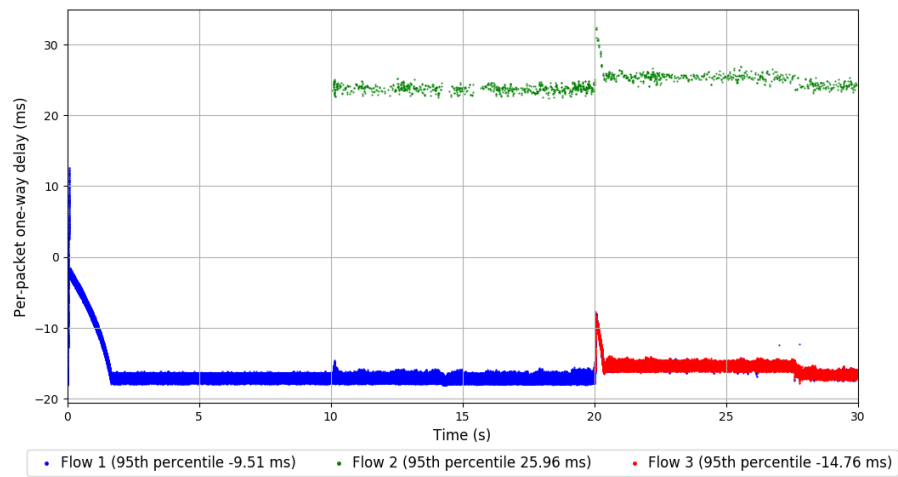
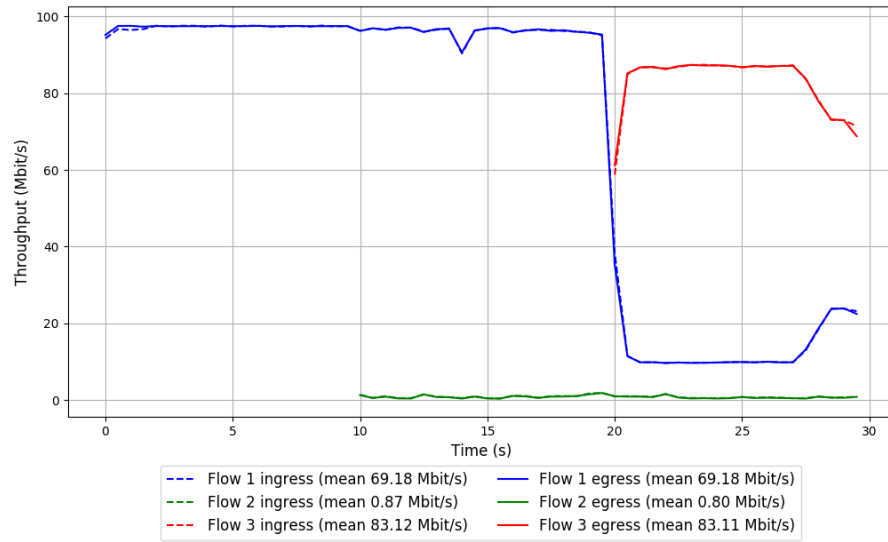


Run 2: Statistics of TCP Vegas

Start at: 2018-02-03 01:56:36
End at: 2018-02-03 01:57:06
Local clock offset: 0.042 ms
Remote clock offset: -19.82 ms

Below is generated by plot.py at 2018-02-03 05:37:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: -11.115 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 69.18 Mbit/s
95th percentile per-packet one-way delay: -9.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 25.959 ms
Loss rate: 7.86%
-- Flow 3:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: -14.763 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-03 02:17:11

End at: 2018-02-03 02:17:41

Local clock offset: 0.007 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-02-03 05:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 4.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 4.420 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 4.452 ms

Loss rate: 0.00%

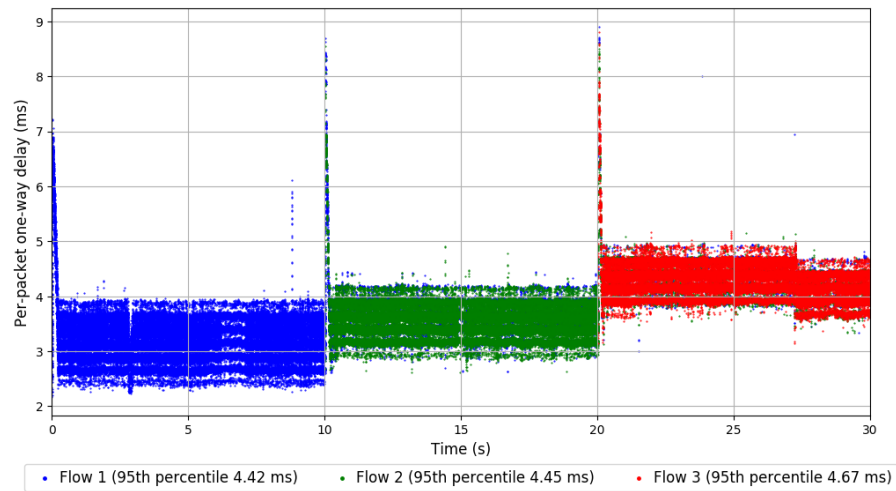
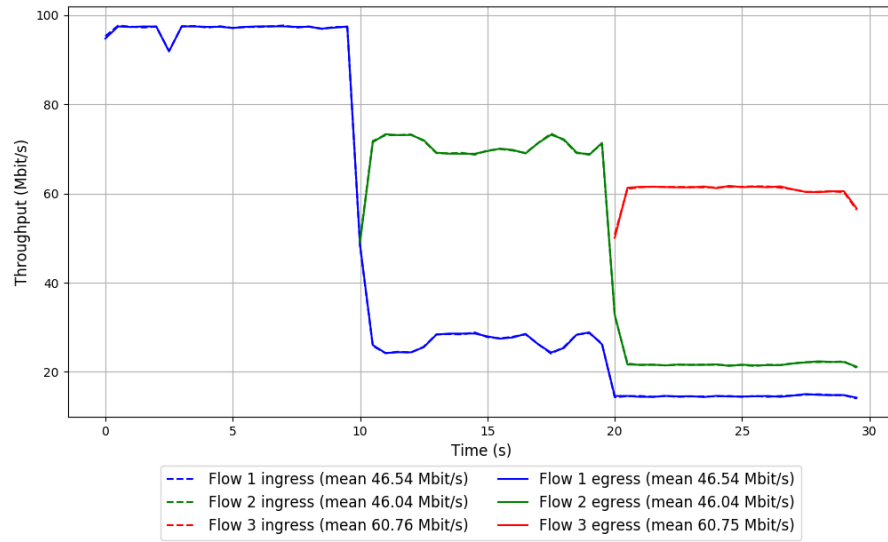
-- Flow 3:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 4.672 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-03 02:37:44

End at: 2018-02-03 02:38:14

Local clock offset: -0.023 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-02-03 05:37:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 6.202 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.42 Mbit/s

95th percentile per-packet one-way delay: 12.732 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.85 Mbit/s

95th percentile per-packet one-way delay: 4.473 ms

Loss rate: 0.00%

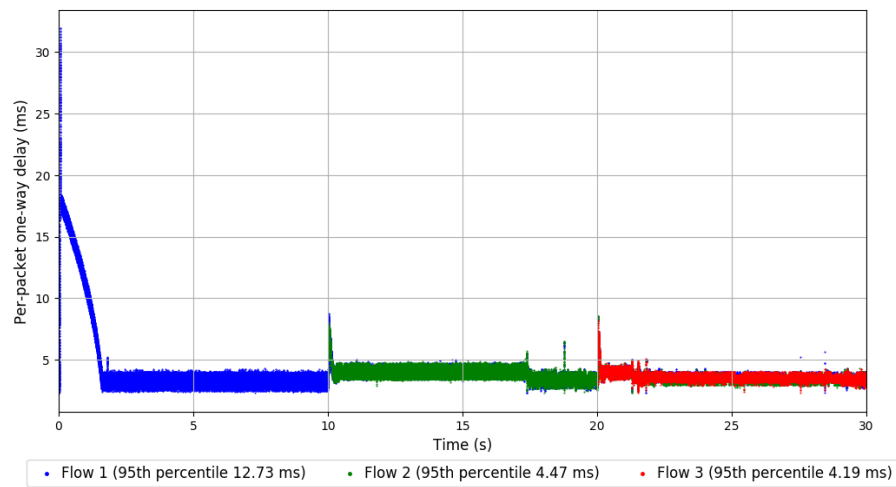
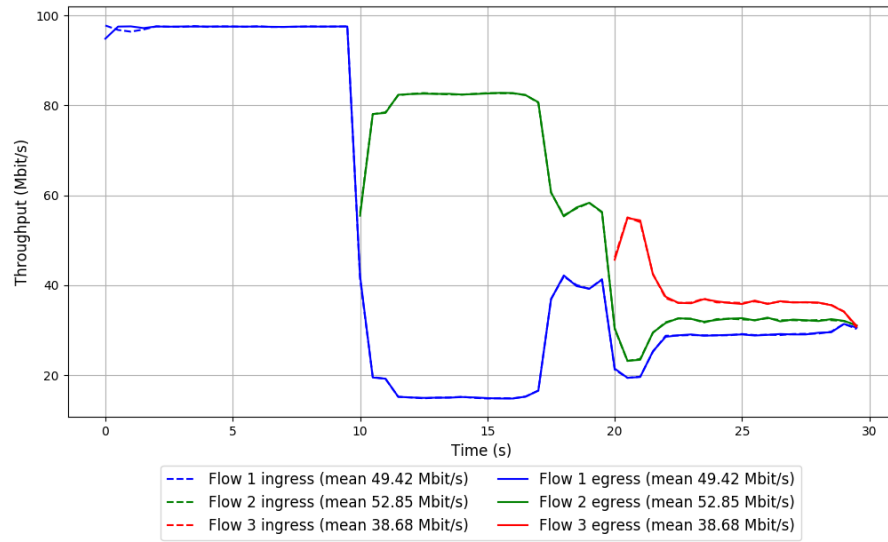
-- Flow 3:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 4.190 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

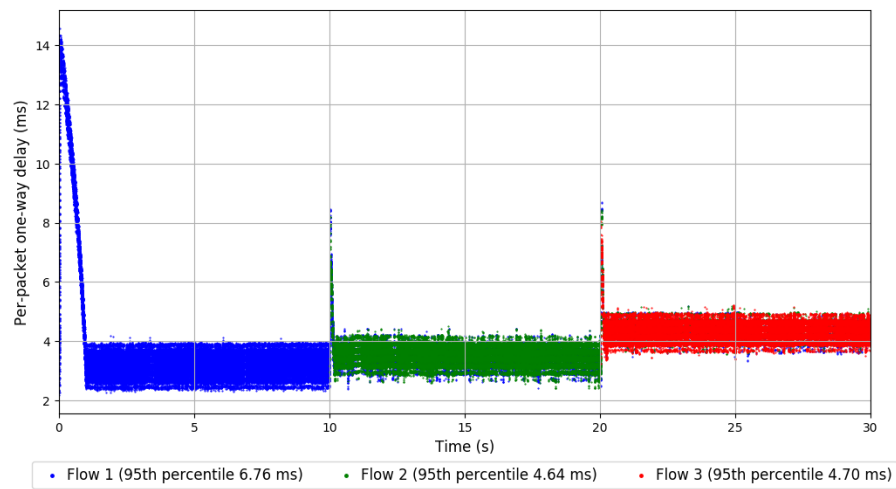
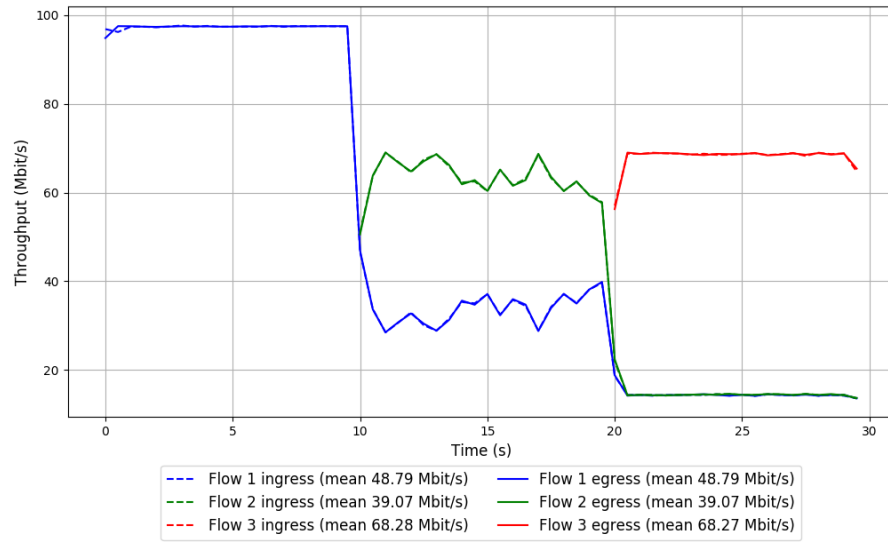


Run 5: Statistics of TCP Vegas

Start at: 2018-02-03 02:58:20
End at: 2018-02-03 02:58:50
Local clock offset: -0.046 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2018-02-03 05:37:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.79 Mbit/s
95th percentile per-packet one-way delay: 6.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 4.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.27 Mbit/s
95th percentile per-packet one-way delay: 4.702 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

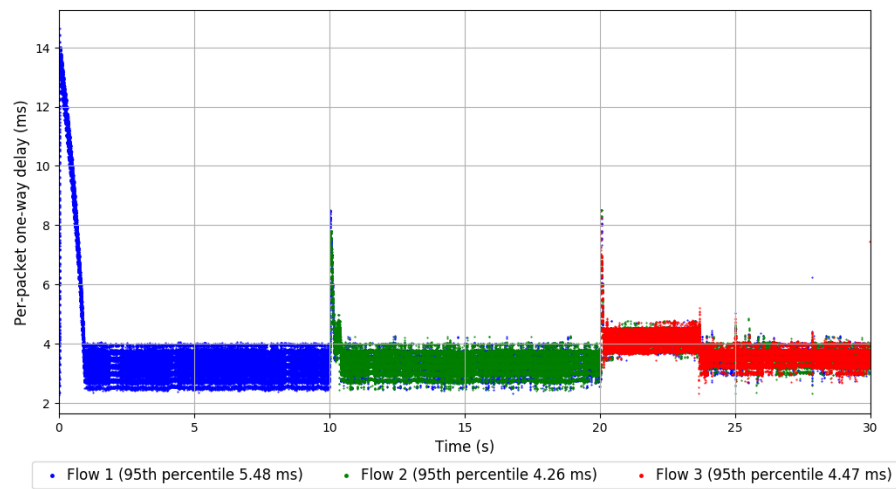
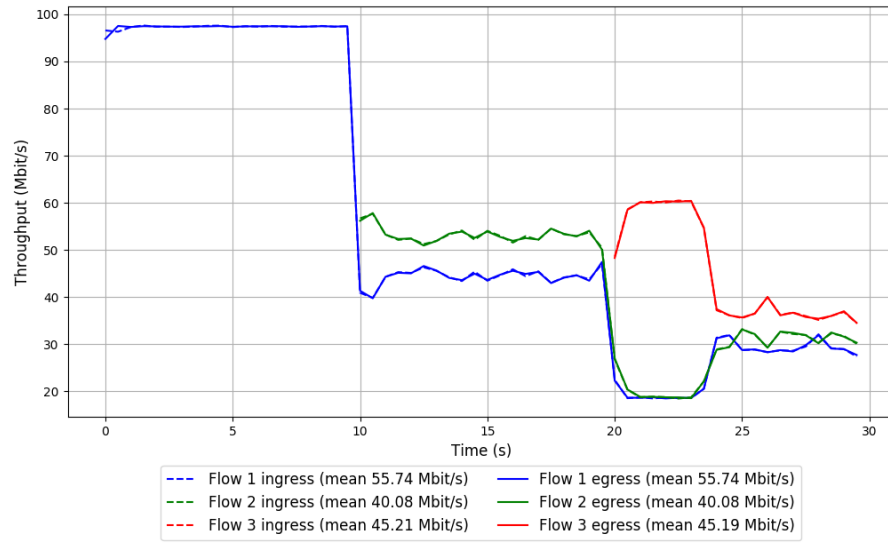


Run 6: Statistics of TCP Vegas

Start at: 2018-02-03 03:18:52
End at: 2018-02-03 03:19:22
Local clock offset: -0.044 ms
Remote clock offset: -0.183 ms

Below is generated by plot.py at 2018-02-03 05:37:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 4.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 5.482 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 4.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.19 Mbit/s
95th percentile per-packet one-way delay: 4.471 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

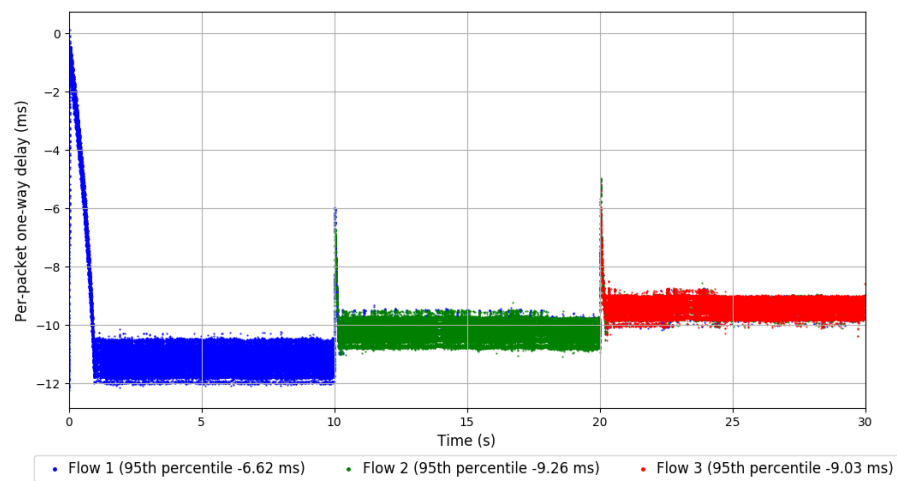
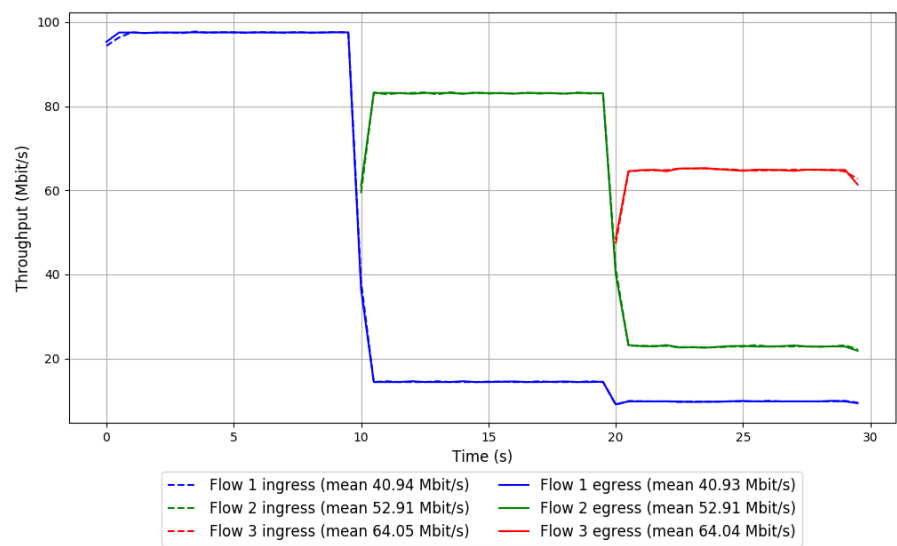


Run 7: Statistics of TCP Vegas

Start at: 2018-02-03 03:39:25
End at: 2018-02-03 03:39:55
Local clock offset: -0.054 ms
Remote clock offset: -13.407 ms

Below is generated by plot.py at 2018-02-03 05:38:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: -9.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: -6.615 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: -9.260 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: -9.030 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-03 03:59:55

End at: 2018-02-03 04:00:25

Local clock offset: 0.007 ms

Remote clock offset: 2.07 ms

Below is generated by plot.py at 2018-02-03 05:38:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 4.453 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 6.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 4.251 ms

Loss rate: 0.00%

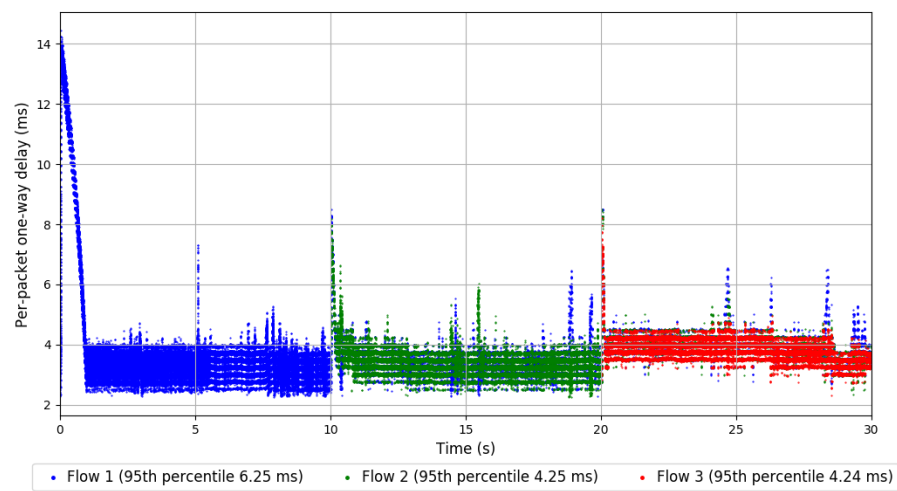
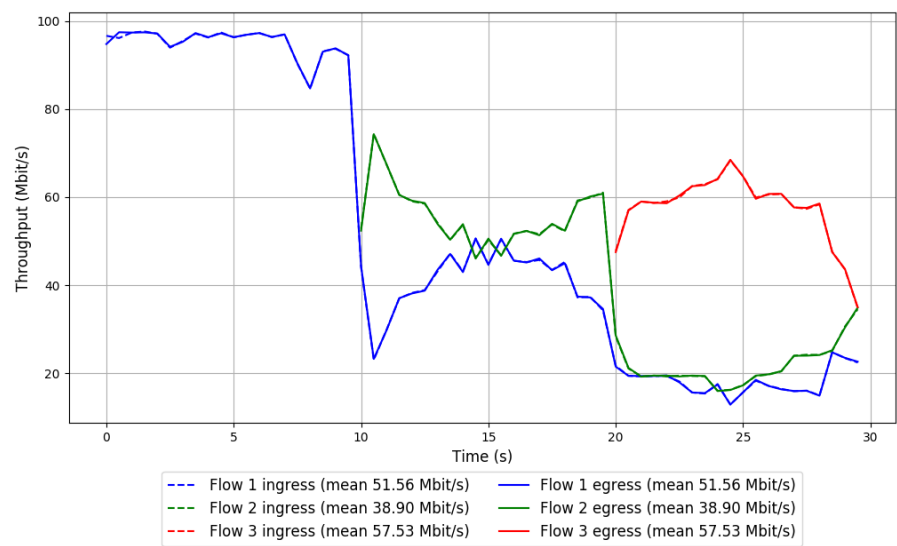
-- Flow 3:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 4.244 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-03 04:20:29

End at: 2018-02-03 04:20:59

Local clock offset: 0.013 ms

Remote clock offset: 2.092 ms

Below is generated by plot.py at 2018-02-03 05:38:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 4.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.40 Mbit/s

95th percentile per-packet one-way delay: 8.946 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 4.393 ms

Loss rate: 0.00%

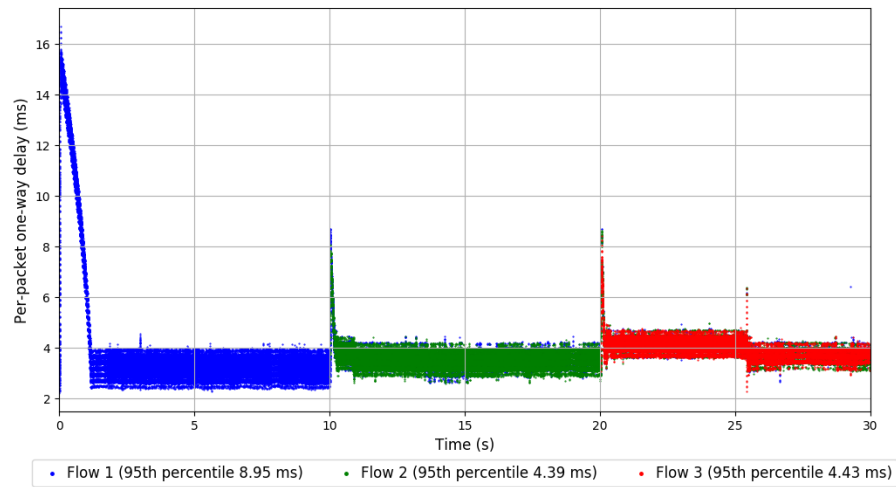
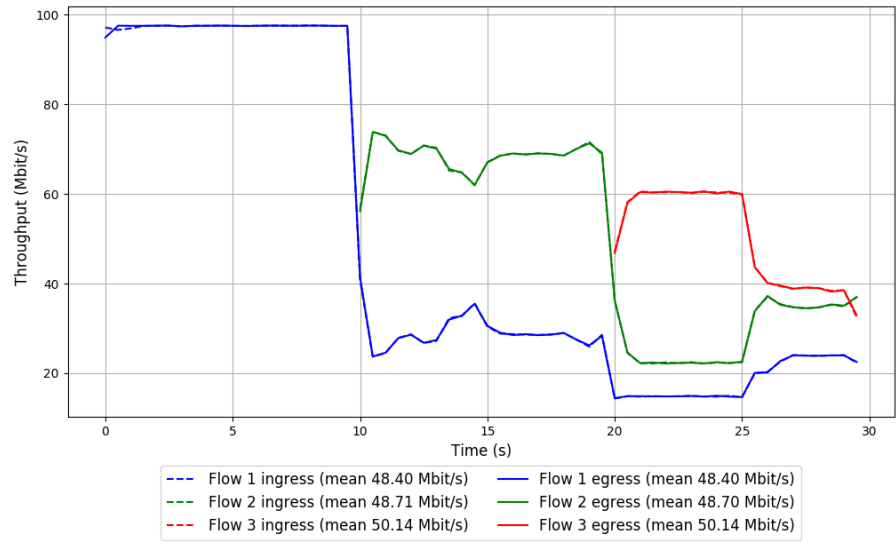
-- Flow 3:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 4.434 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-03 04:41:03

End at: 2018-02-03 04:41:33

Local clock offset: 0.03 ms

Remote clock offset: 2.166 ms

Below is generated by plot.py at 2018-02-03 05:38:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 6.731 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 14.179 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 4.775 ms

Loss rate: 0.00%

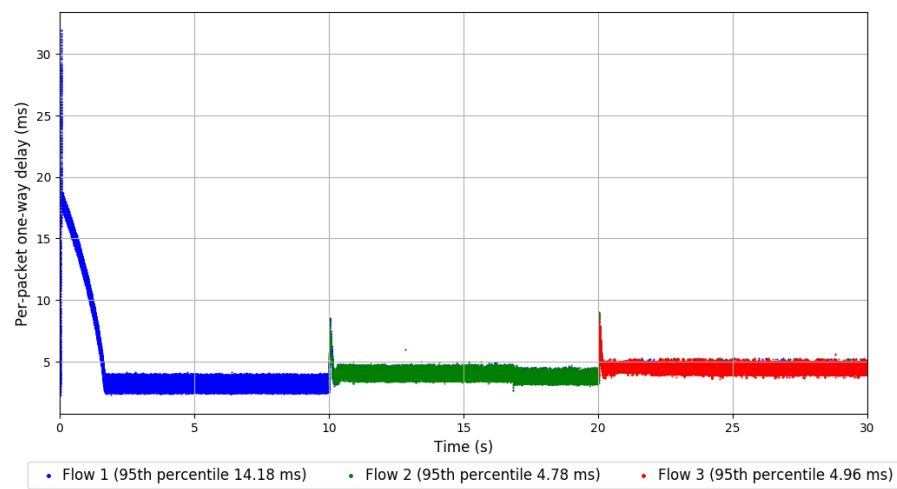
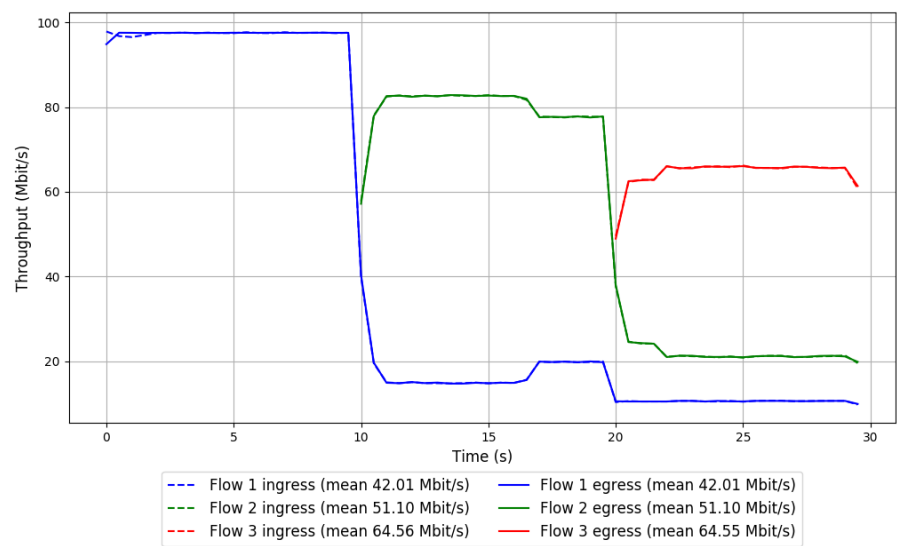
-- Flow 3:

Average throughput: 64.55 Mbit/s

95th percentile per-packet one-way delay: 4.955 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

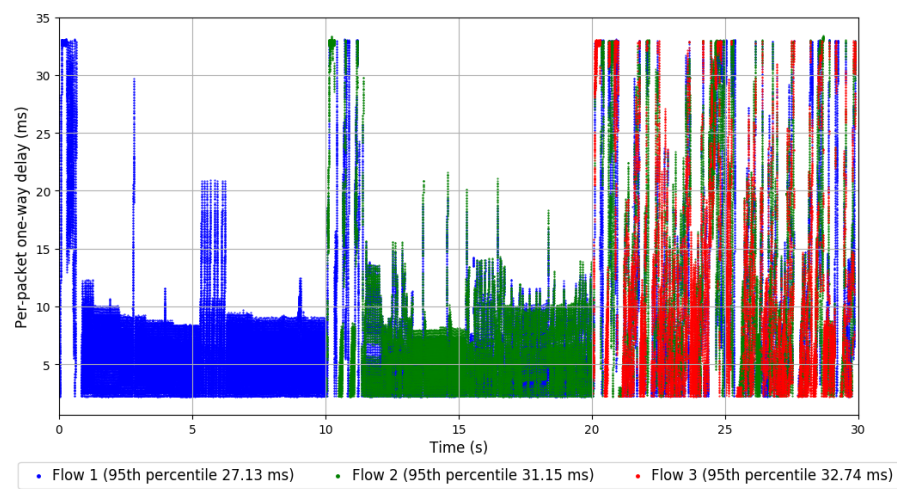
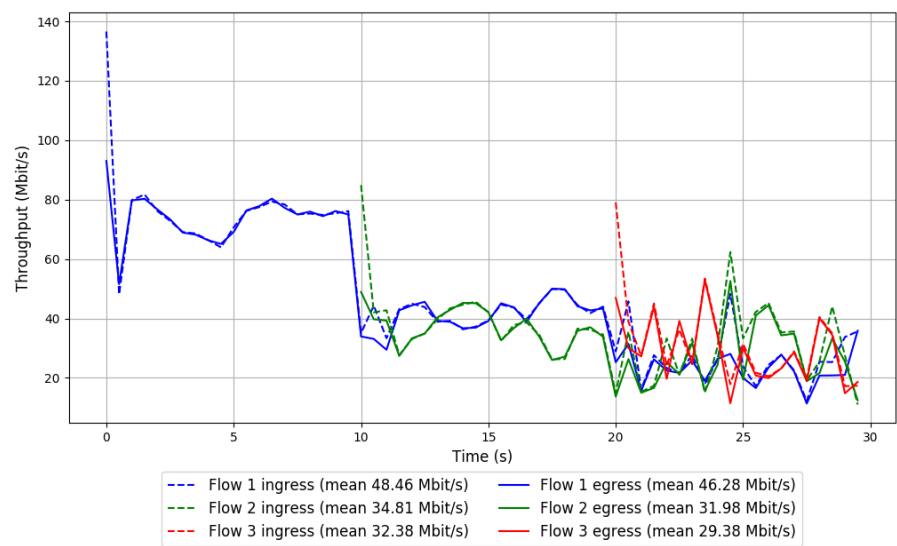


```
Run 1: Statistics of Verus

Start at: 2018-02-03 01:44:07
End at: 2018-02-03 01:44:37
Local clock offset: 0.08 ms
Remote clock offset: 0.655 ms

# Below is generated by plot.py at 2018-02-03 05:38:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 29.984 ms
Loss rate: 6.01%
-- Flow 1:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 27.130 ms
Loss rate: 4.39%
-- Flow 2:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 31.151 ms
Loss rate: 8.02%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 32.744 ms
Loss rate: 9.02%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-03 02:04:42

End at: 2018-02-03 02:05:12

Local clock offset: 0.035 ms

Remote clock offset: 0.441 ms

Below is generated by plot.py at 2018-02-03 05:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 70.424 ms

Loss rate: 35.35%

-- Flow 1:

Average throughput: 42.27 Mbit/s

95th percentile per-packet one-way delay: 32.838 ms

Loss rate: 32.34%

-- Flow 2:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 72.572 ms

Loss rate: 44.00%

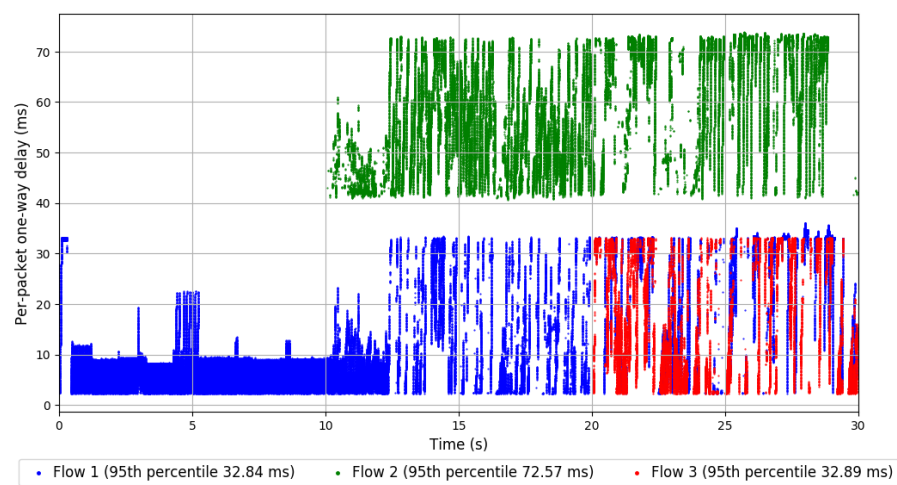
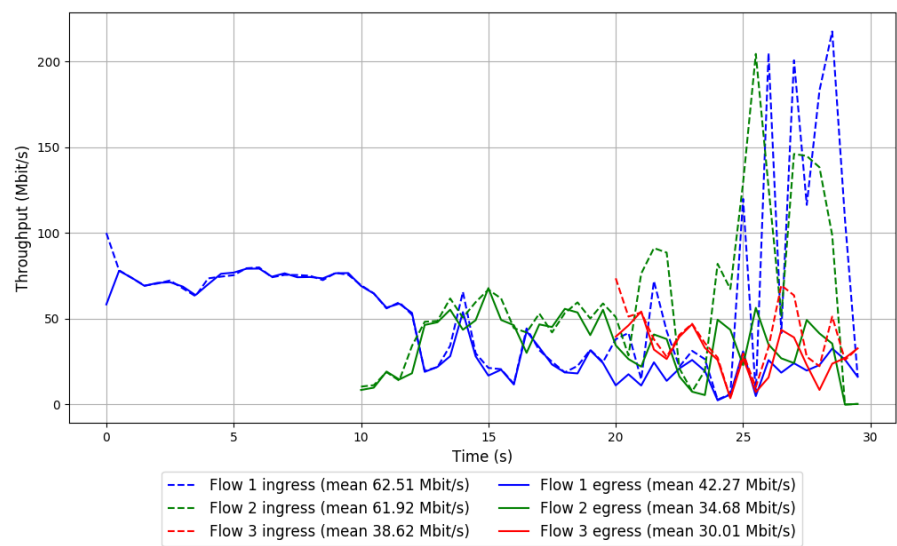
-- Flow 3:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 32.890 ms

Loss rate: 22.24%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-03 02:25:17

End at: 2018-02-03 02:25:47

Local clock offset: -0.038 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-02-03 05:39:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.57 Mbit/s

95th percentile per-packet one-way delay: 29.596 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 26.161 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 30.97 Mbit/s

95th percentile per-packet one-way delay: 29.351 ms

Loss rate: 4.49%

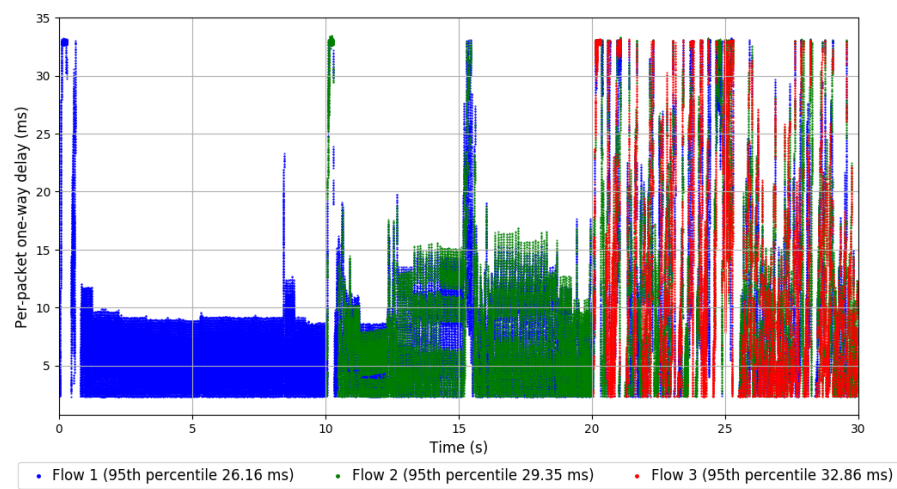
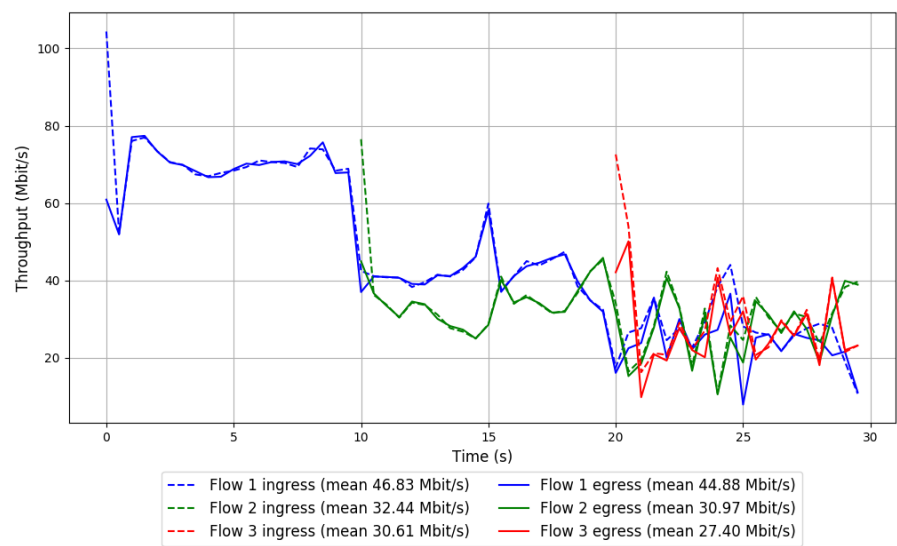
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 32.861 ms

Loss rate: 10.45%

Run 3: Report of Verus — Data Link

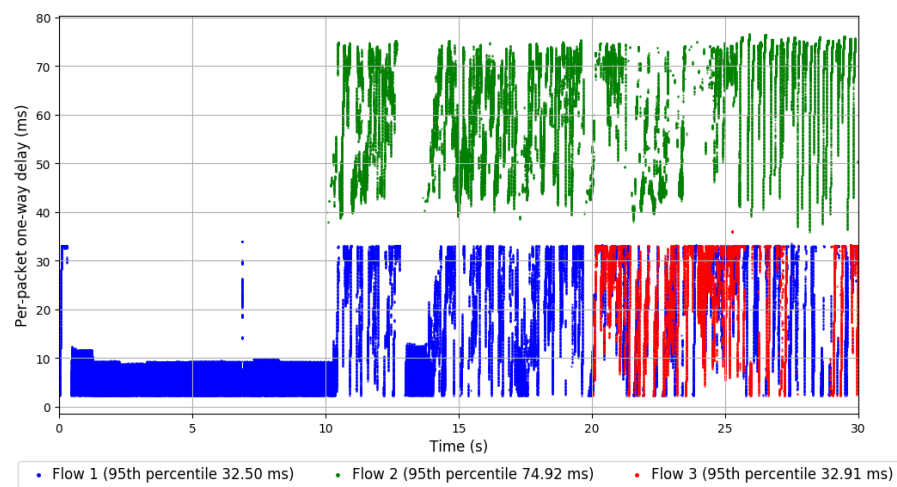
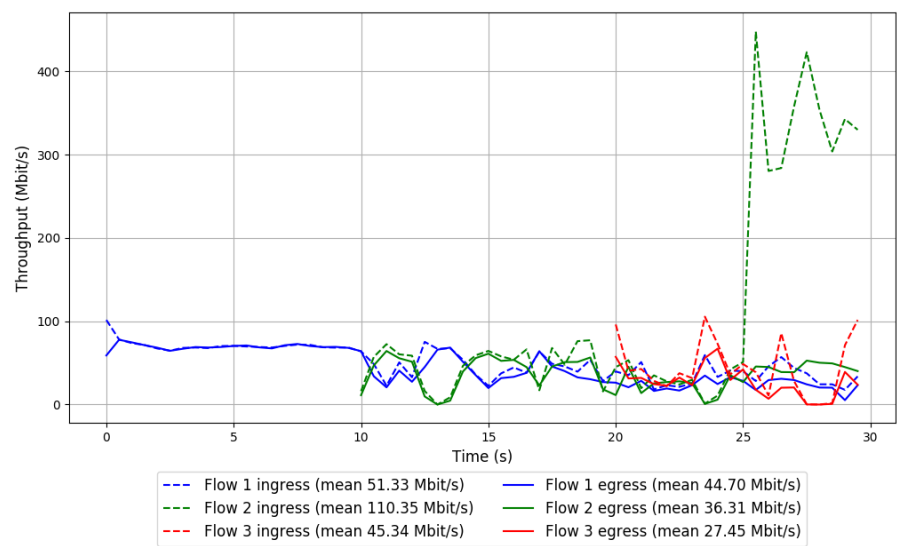


Run 4: Statistics of Verus

Start at: 2018-02-03 02:45:51
End at: 2018-02-03 02:46:21
Local clock offset: -0.031 ms
Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-02-03 05:39:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.83 Mbit/s
95th percentile per-packet one-way delay: 72.963 ms
Loss rate: 44.22%
-- Flow 1:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 32.502 ms
Loss rate: 12.84%
-- Flow 2:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 74.920 ms
Loss rate: 67.11%
-- Flow 3:
Average throughput: 27.45 Mbit/s
95th percentile per-packet one-way delay: 32.910 ms
Loss rate: 39.27%

Run 4: Report of Verus — Data Link

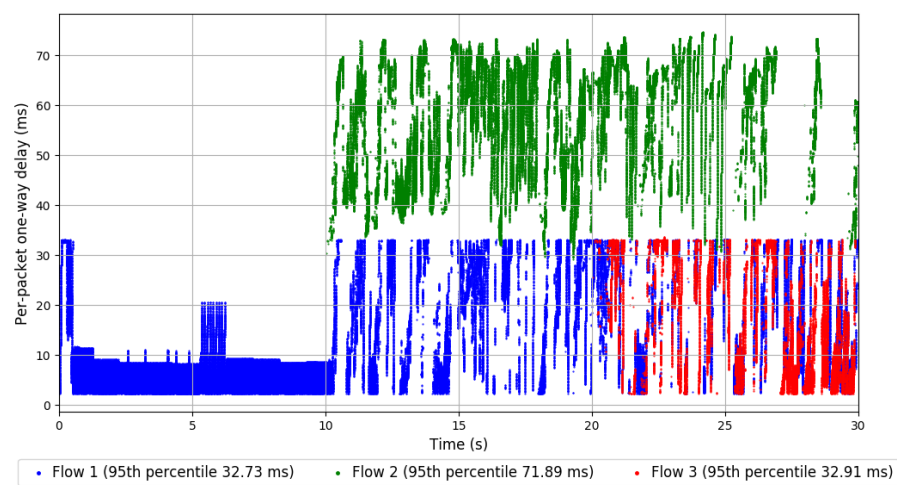
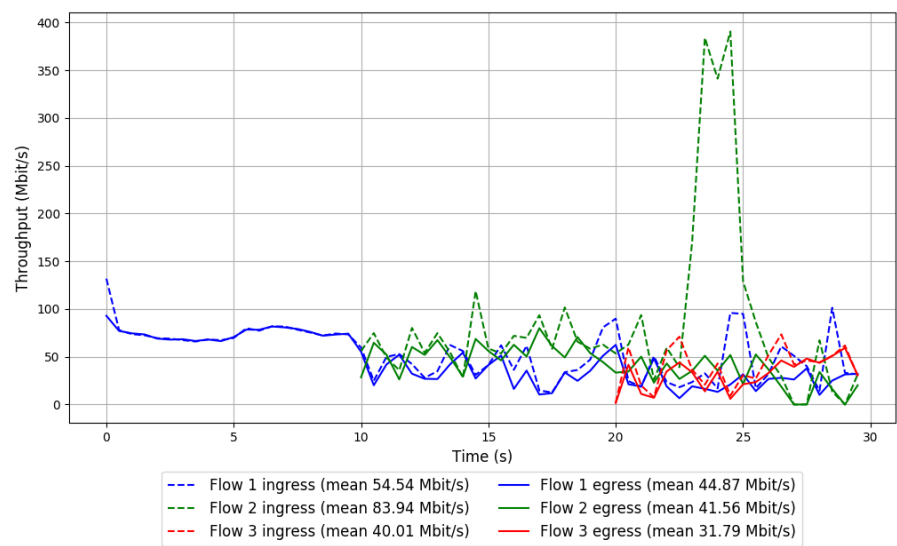


Run 5: Statistics of Verus

Start at: 2018-02-03 03:06:23
End at: 2018-02-03 03:06:53
Local clock offset: -0.06 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-02-03 05:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 68.871 ms
Loss rate: 32.81%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 32.727 ms
Loss rate: 17.64%
-- Flow 2:
Average throughput: 41.56 Mbit/s
95th percentile per-packet one-way delay: 71.890 ms
Loss rate: 50.49%
-- Flow 3:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 32.913 ms
Loss rate: 20.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-03 03:26:59

End at: 2018-02-03 03:27:29

Local clock offset: -0.025 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-02-03 05:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.87 Mbit/s

95th percentile per-packet one-way delay: 32.654 ms

Loss rate: 12.33%

-- Flow 1:

Average throughput: 44.72 Mbit/s

95th percentile per-packet one-way delay: 30.374 ms

Loss rate: 9.57%

-- Flow 2:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 32.784 ms

Loss rate: 12.73%

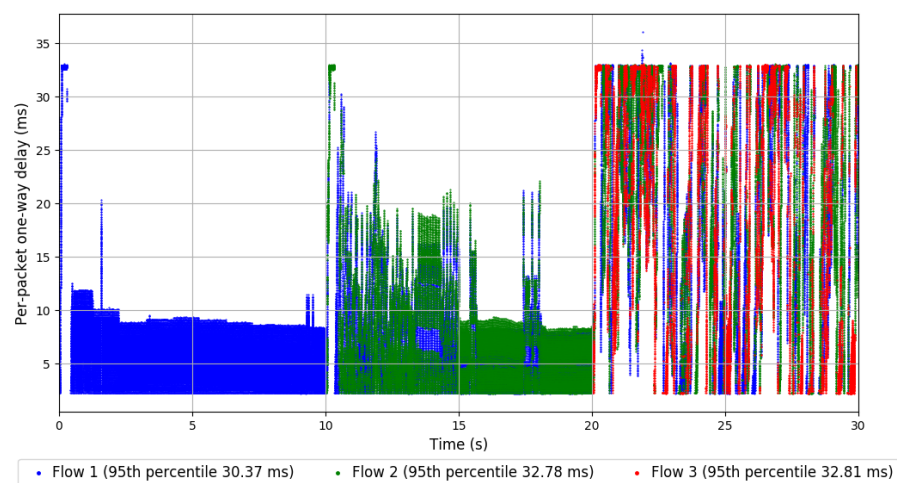
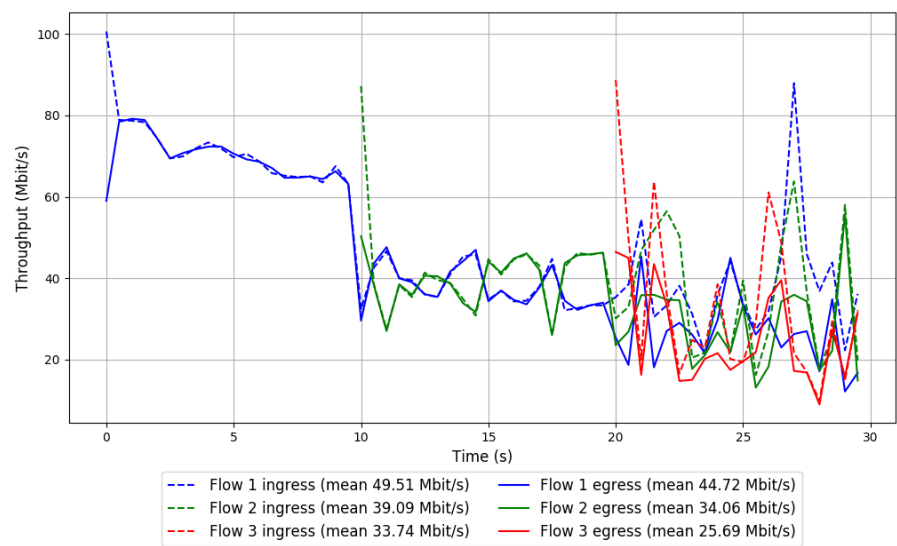
-- Flow 3:

Average throughput: 25.69 Mbit/s

95th percentile per-packet one-way delay: 32.813 ms

Loss rate: 23.66%

Run 6: Report of Verus — Data Link

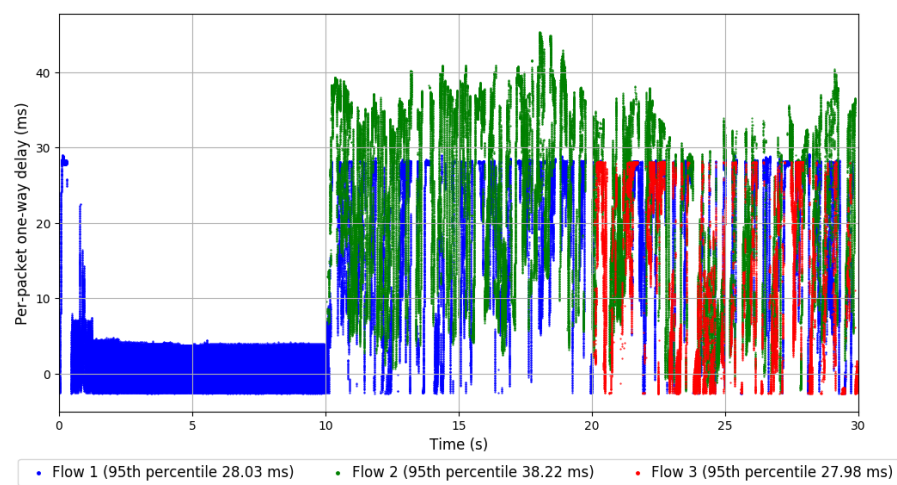
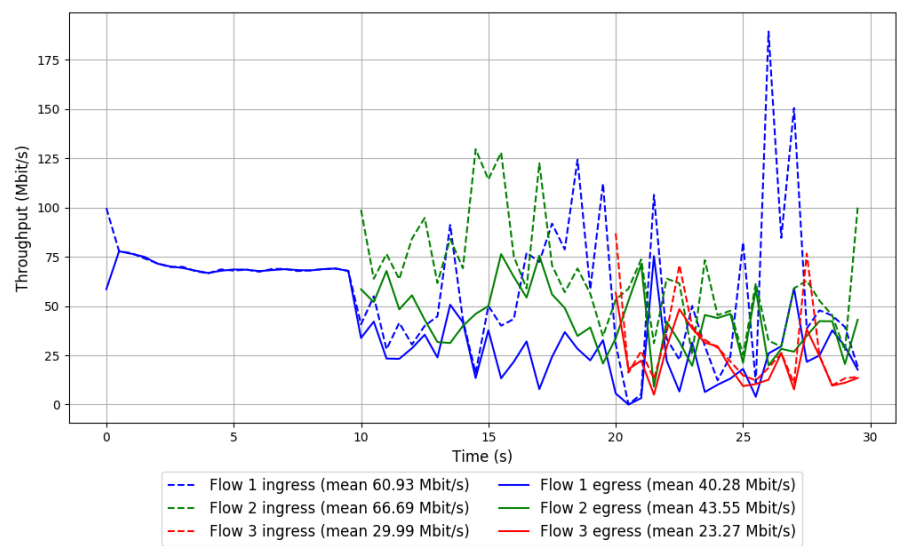


Run 7: Statistics of Verus

Start at: 2018-02-03 03:47:29
End at: 2018-02-03 03:47:59
Local clock offset: -0.019 ms
Remote clock offset: -3.202 ms

Below is generated by plot.py at 2018-02-03 05:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 35.480 ms
Loss rate: 33.16%
-- Flow 1:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 28.029 ms
Loss rate: 33.84%
-- Flow 2:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 38.224 ms
Loss rate: 34.61%
-- Flow 3:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 27.984 ms
Loss rate: 22.57%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-03 04:08:02

End at: 2018-02-03 04:08:32

Local clock offset: 0.006 ms

Remote clock offset: 2.071 ms

Below is generated by plot.py at 2018-02-03 05:40:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.28 Mbit/s

95th percentile per-packet one-way delay: 31.475 ms

Loss rate: 10.79%

-- Flow 1:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 28.834 ms

Loss rate: 5.68%

-- Flow 2:

Average throughput: 29.02 Mbit/s

95th percentile per-packet one-way delay: 32.656 ms

Loss rate: 18.71%

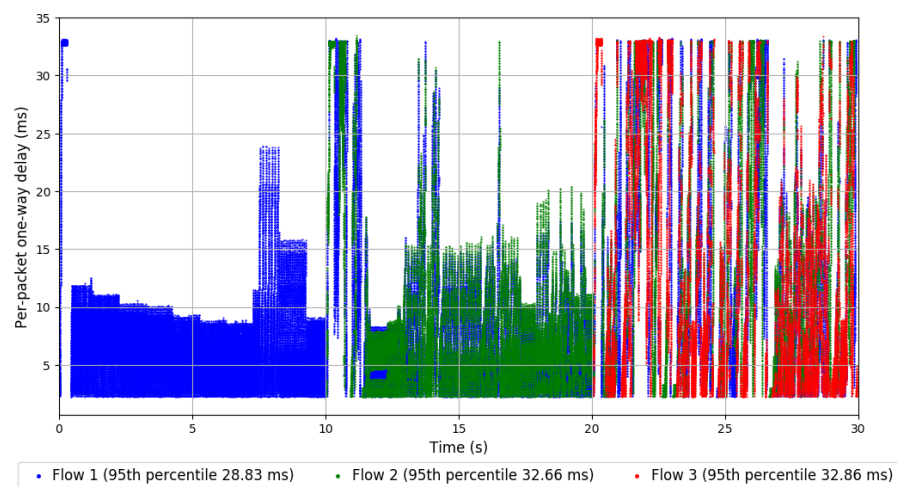
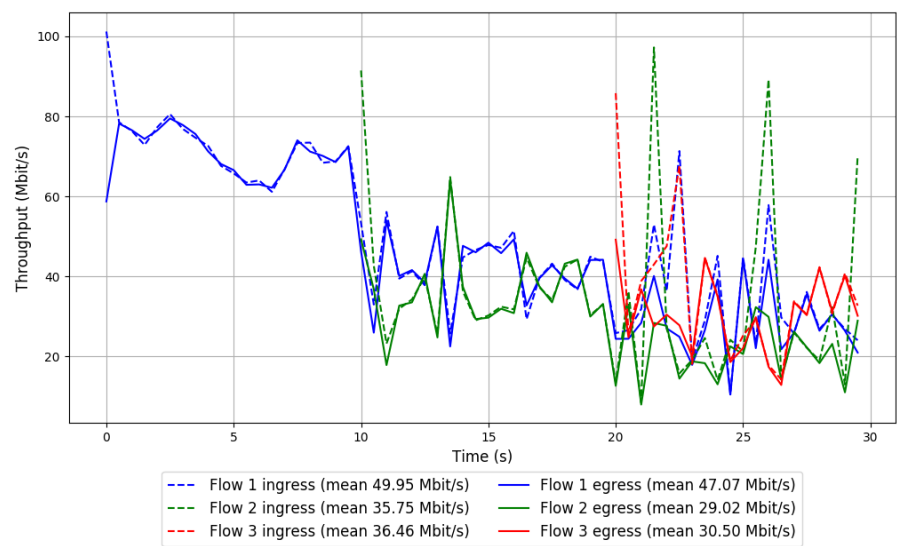
-- Flow 3:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 32.857 ms

Loss rate: 16.37%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-03 04:28:36

End at: 2018-02-03 04:29:06

Local clock offset: 0.023 ms

Remote clock offset: 2.202 ms

Below is generated by plot.py at 2018-02-03 05:40:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 32.501 ms

Loss rate: 15.57%

-- Flow 1:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 31.146 ms

Loss rate: 16.35%

-- Flow 2:

Average throughput: 28.33 Mbit/s

95th percentile per-packet one-way delay: 32.494 ms

Loss rate: 10.06%

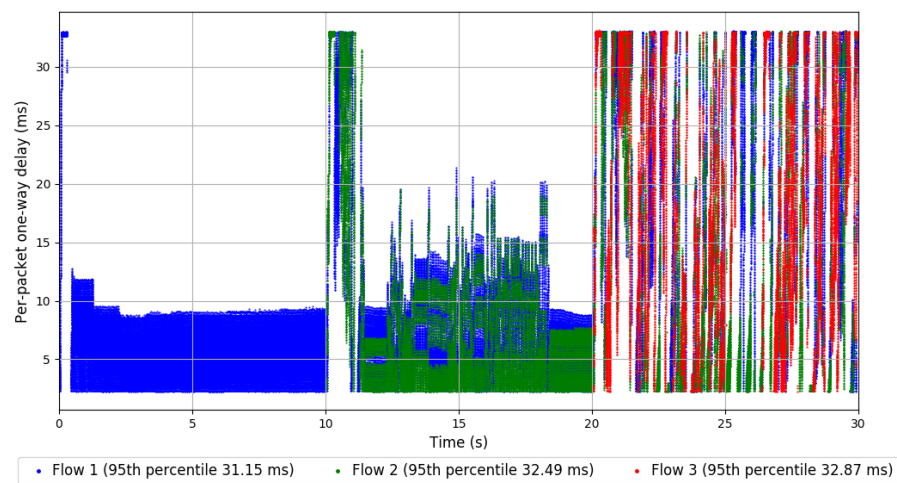
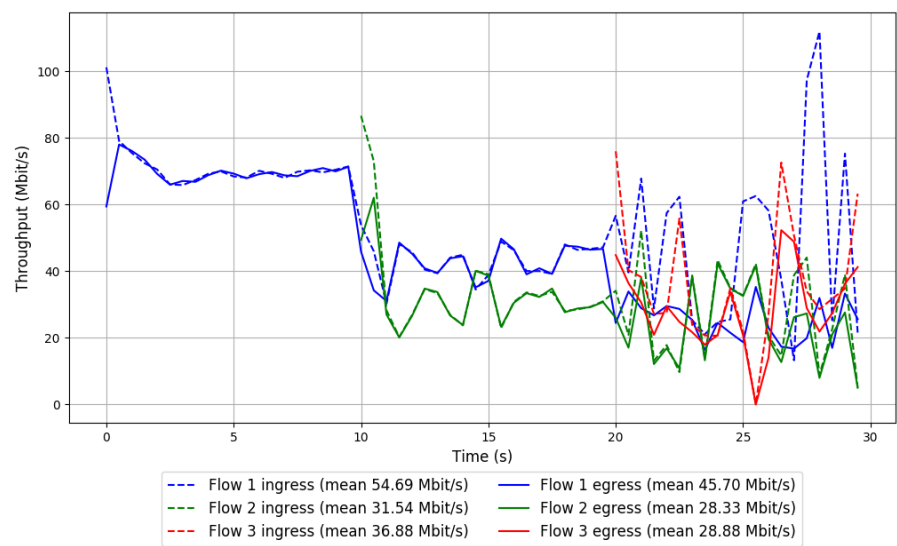
-- Flow 3:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 32.872 ms

Loss rate: 21.49%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-03 04:49:10

End at: 2018-02-03 04:49:40

Local clock offset: 0.031 ms

Remote clock offset: 2.103 ms

Below is generated by plot.py at 2018-02-03 05:40:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 32.262 ms

Loss rate: 13.80%

-- Flow 1:

Average throughput: 45.05 Mbit/s

95th percentile per-packet one-way delay: 31.209 ms

Loss rate: 10.94%

-- Flow 2:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 32.348 ms

Loss rate: 14.14%

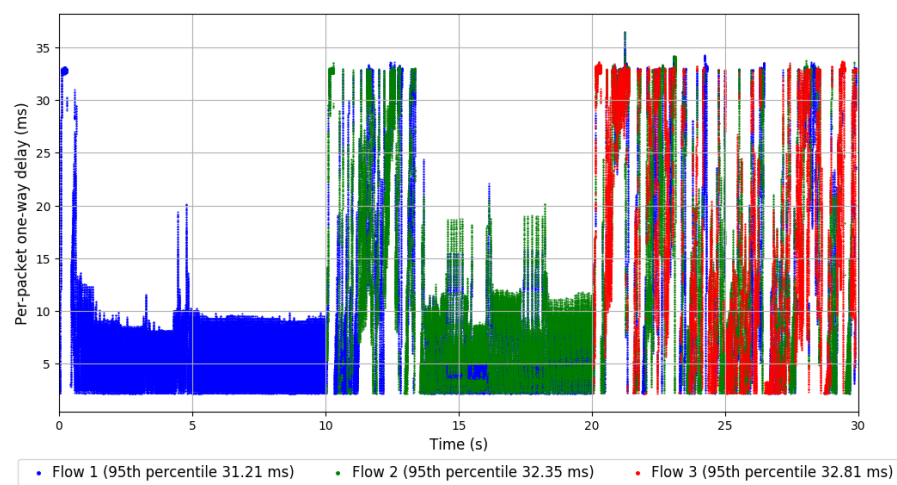
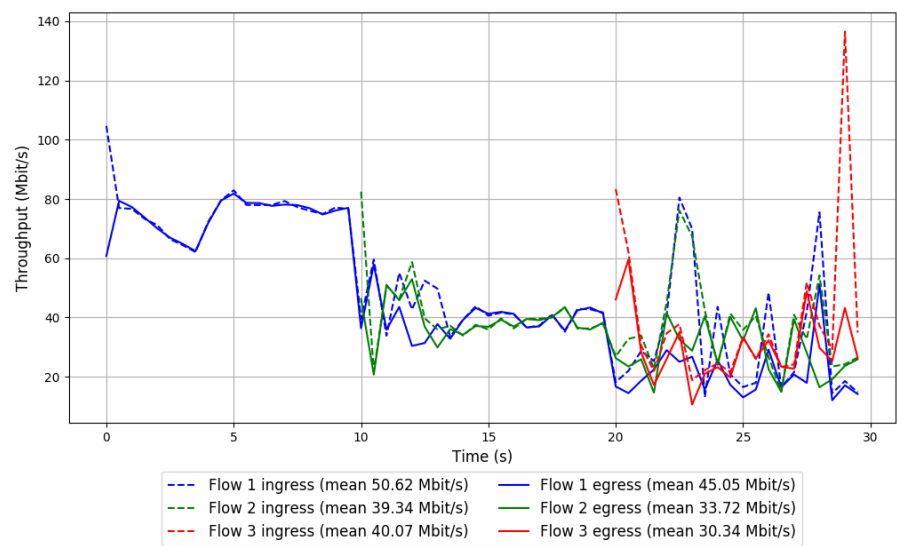
-- Flow 3:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 32.813 ms

Loss rate: 24.10%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-03 01:37:11

End at: 2018-02-03 01:37:41

Local clock offset: 0.131 ms

Remote clock offset: 0.729 ms

Below is generated by plot.py at 2018-02-03 05:41:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.16 Mbit/s

95th percentile per-packet one-way delay: 2.901 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 2.777 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 2.901 ms

Loss rate: 0.00%

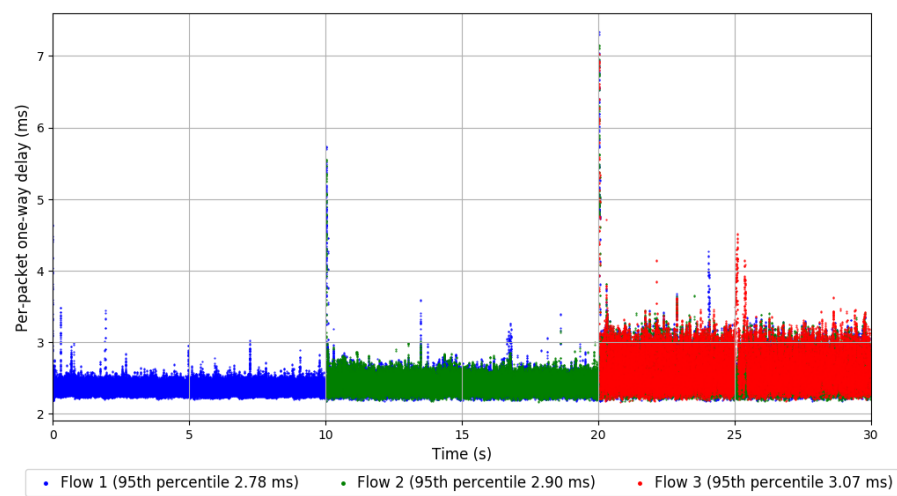
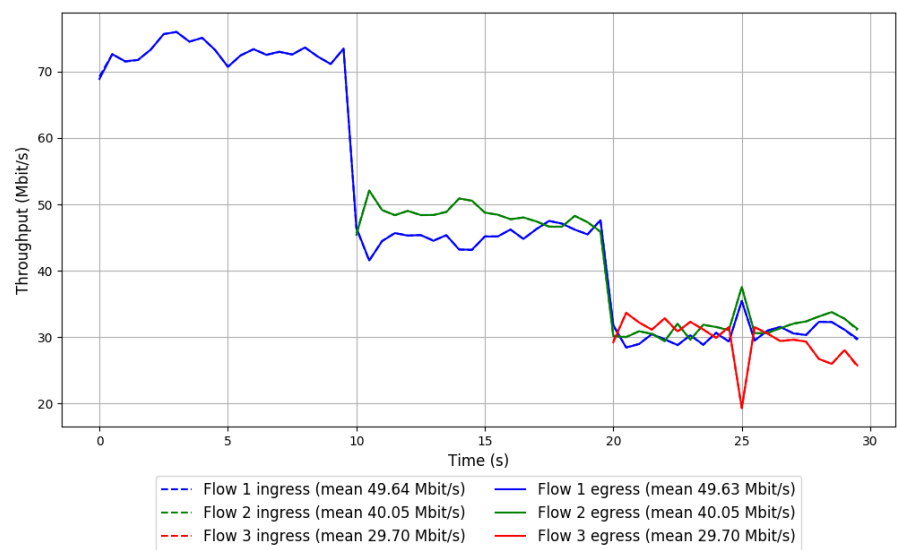
-- Flow 3:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 3.073 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-03 01:57:44

End at: 2018-02-03 01:58:14

Local clock offset: 0.042 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-02-03 05:41:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.22 Mbit/s

95th percentile per-packet one-way delay: 3.020 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 2.939 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.73 Mbit/s

95th percentile per-packet one-way delay: 3.022 ms

Loss rate: 0.00%

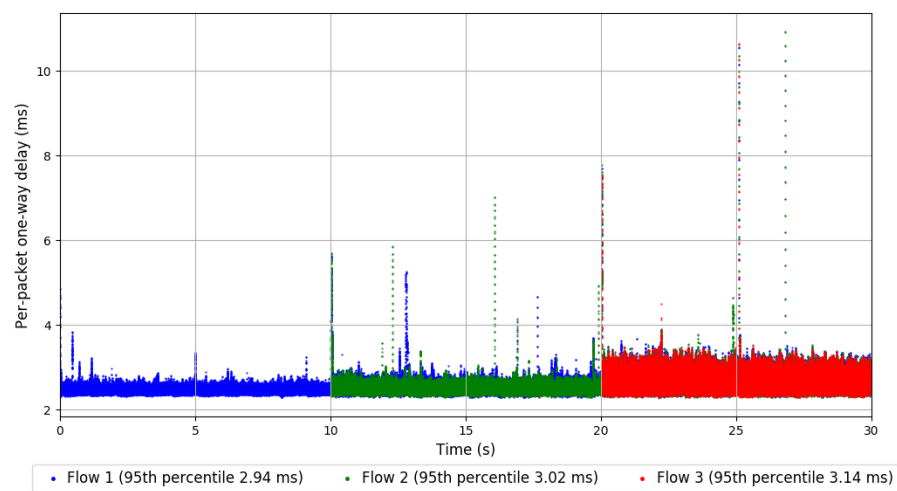
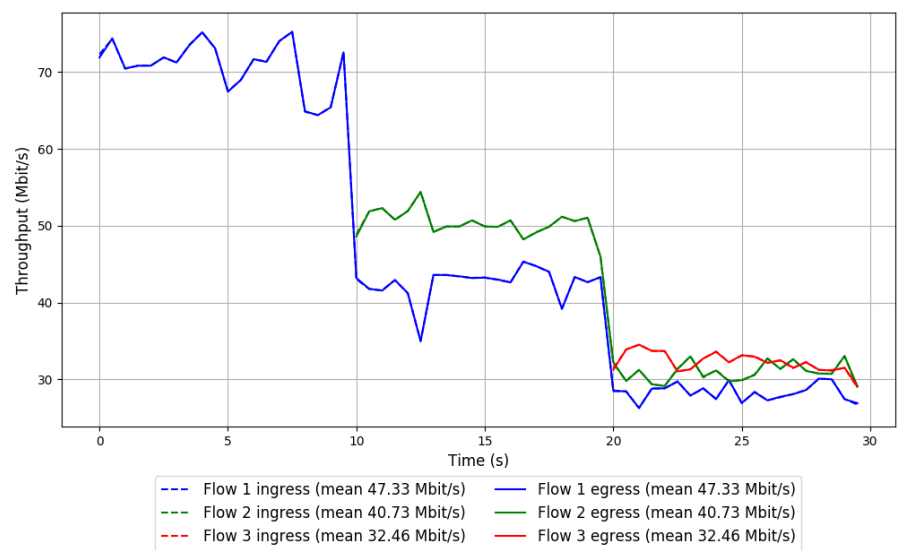
-- Flow 3:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 3.140 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-03 02:18:19

End at: 2018-02-03 02:18:49

Local clock offset: 0.007 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-02-03 05:41:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 3.028 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.75 Mbit/s

95th percentile per-packet one-way delay: 2.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.92 Mbit/s

95th percentile per-packet one-way delay: 3.045 ms

Loss rate: 0.00%

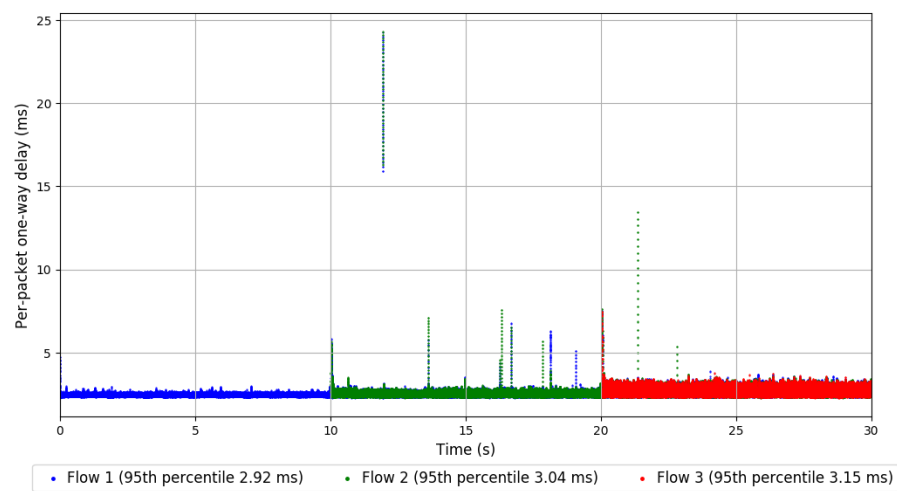
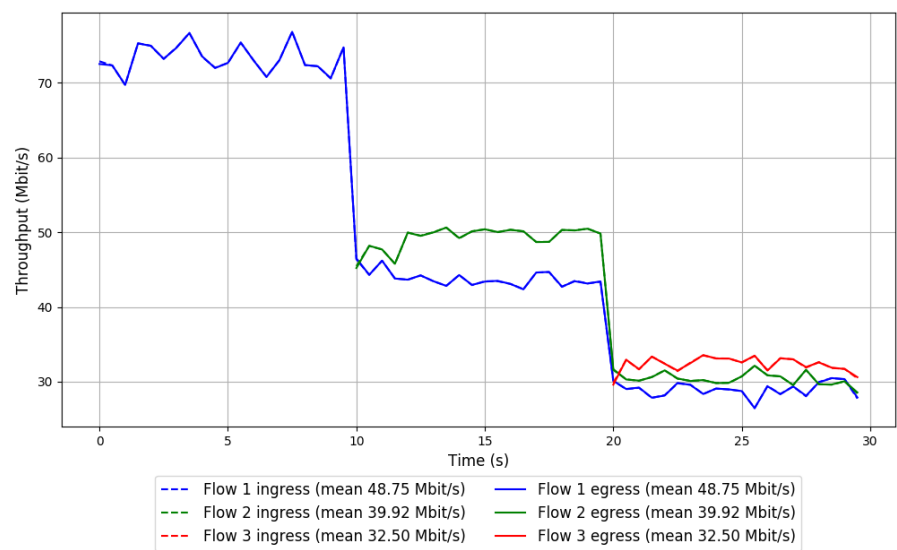
-- Flow 3:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 3.154 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-03 02:38:53

End at: 2018-02-03 02:39:23

Local clock offset: -0.005 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-02-03 05:41:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.96 Mbit/s

95th percentile per-packet one-way delay: 2.647 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.59 Mbit/s

95th percentile per-packet one-way delay: 2.612 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 42.504 ms

Loss rate: 50.00%

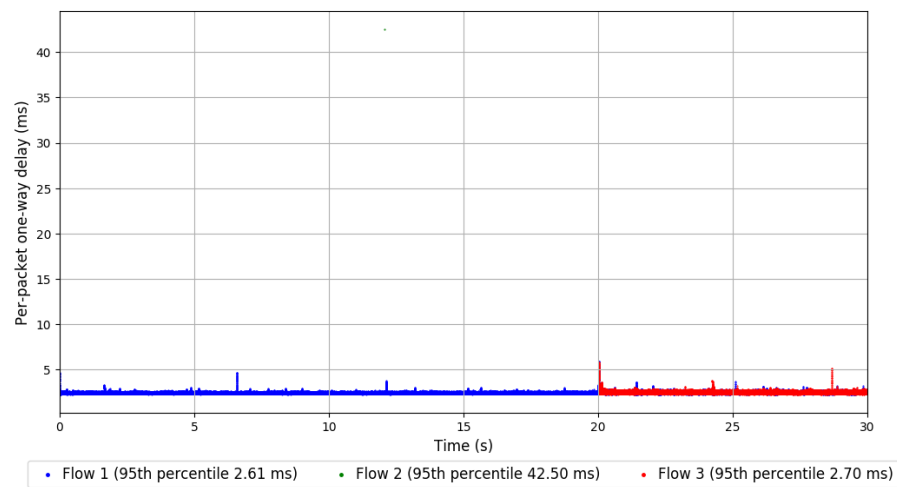
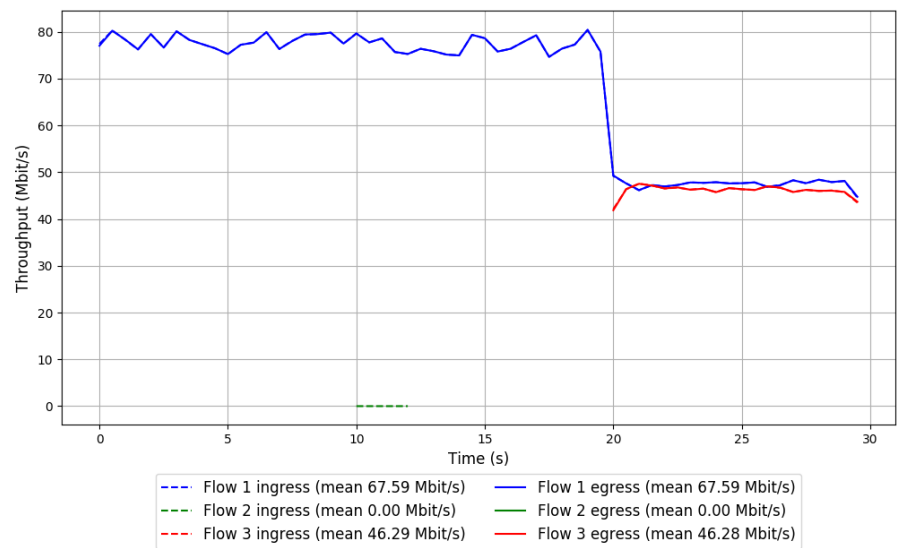
-- Flow 3:

Average throughput: 46.28 Mbit/s

95th percentile per-packet one-way delay: 2.703 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

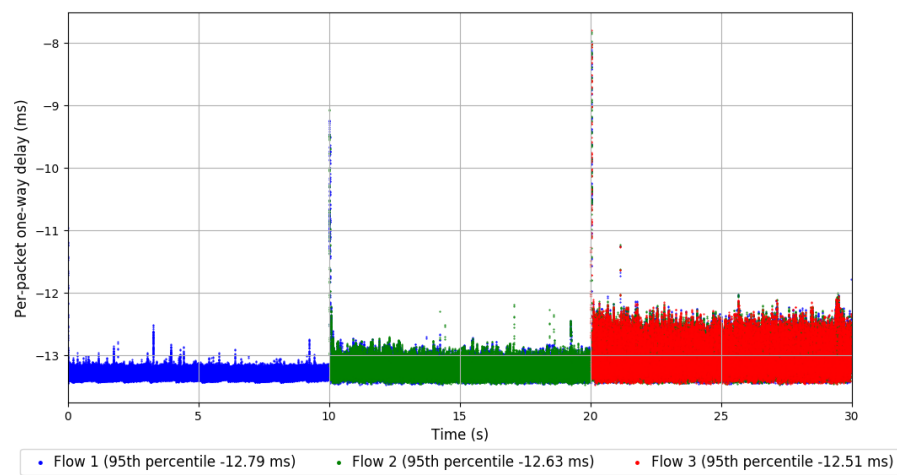
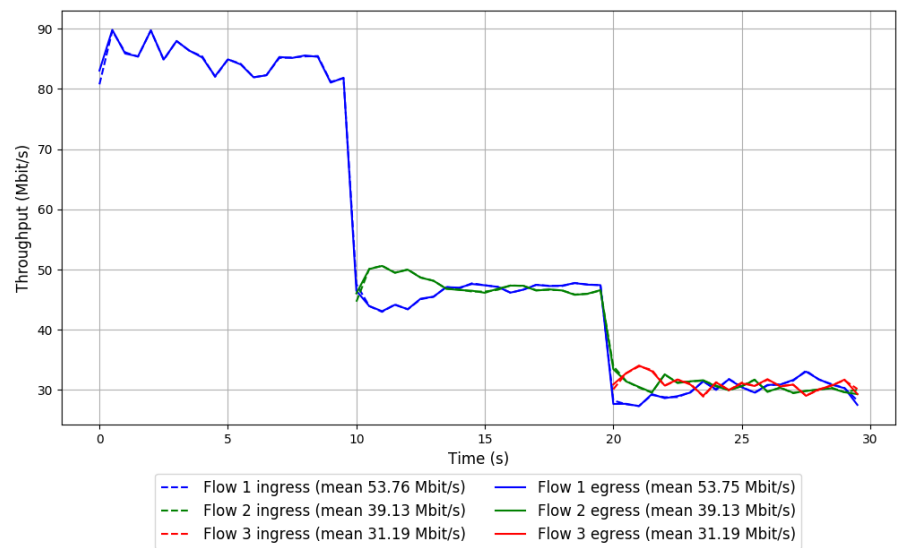


Run 5: Statistics of Copa

Start at: 2018-02-03 02:59:28
End at: 2018-02-03 02:59:58
Local clock offset: -0.042 ms
Remote clock offset: -15.851 ms

```
# Below is generated by plot.py at 2018-02-03 05:42:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.16 Mbit/s
95th percentile per-packet one-way delay: -12.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: -12.790 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: -12.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: -12.505 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

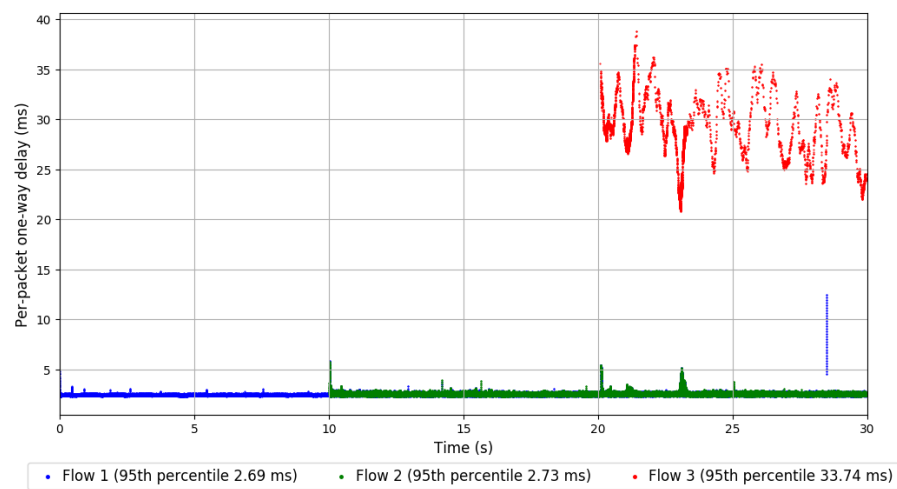
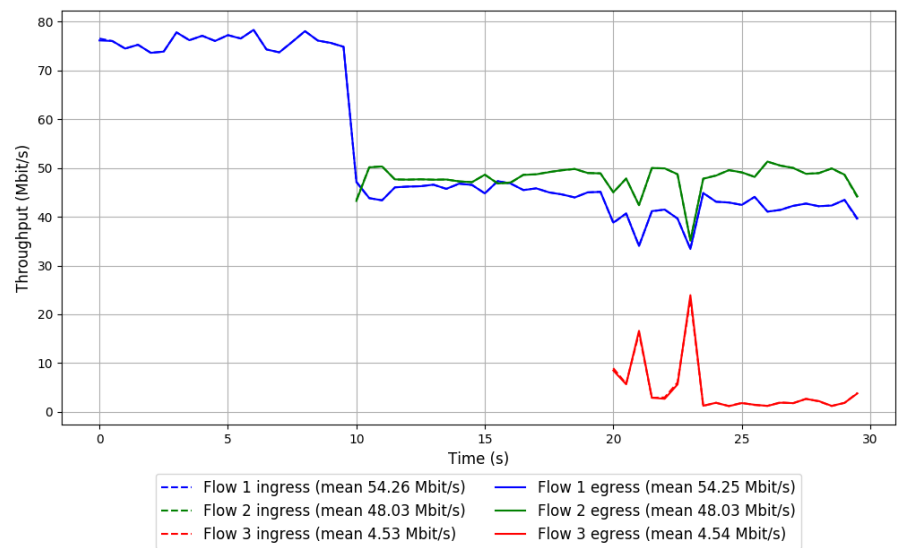


Run 6: Statistics of Copa

Start at: 2018-02-03 03:20:01
End at: 2018-02-03 03:20:31
Local clock offset: -0.04 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-02-03 05:42:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.74 Mbit/s
95th percentile per-packet one-way delay: 2.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.25 Mbit/s
95th percentile per-packet one-way delay: 2.695 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.03 Mbit/s
95th percentile per-packet one-way delay: 2.734 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 33.741 ms
Loss rate: 0.17%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-03 03:40:33

End at: 2018-02-03 03:41:03

Local clock offset: -0.037 ms

Remote clock offset: 1.154 ms

Below is generated by plot.py at 2018-02-03 05:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 2.886 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 31.757 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 65.62 Mbit/s

95th percentile per-packet one-way delay: 2.678 ms

Loss rate: 0.00%

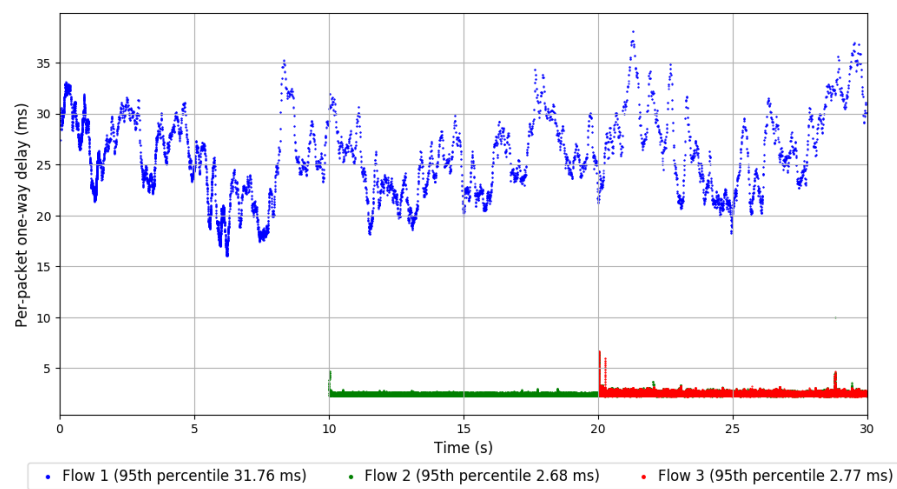
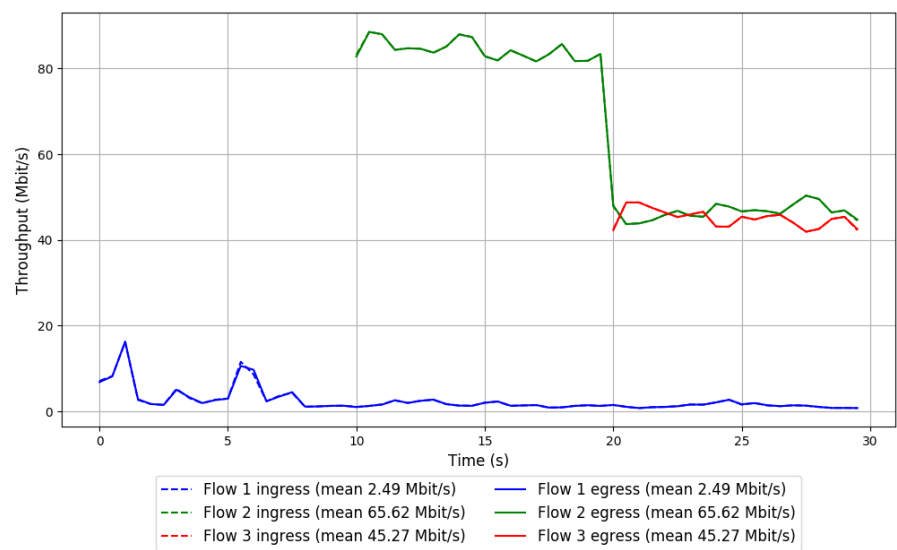
-- Flow 3:

Average throughput: 45.27 Mbit/s

95th percentile per-packet one-way delay: 2.774 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-03 04:01:04

End at: 2018-02-03 04:01:34

Local clock offset: -0.093 ms

Remote clock offset: 2.075 ms

Below is generated by plot.py at 2018-02-03 05:42:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.94 Mbit/s

95th percentile per-packet one-way delay: 3.118 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 2.985 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.78 Mbit/s

95th percentile per-packet one-way delay: 3.143 ms

Loss rate: 0.00%

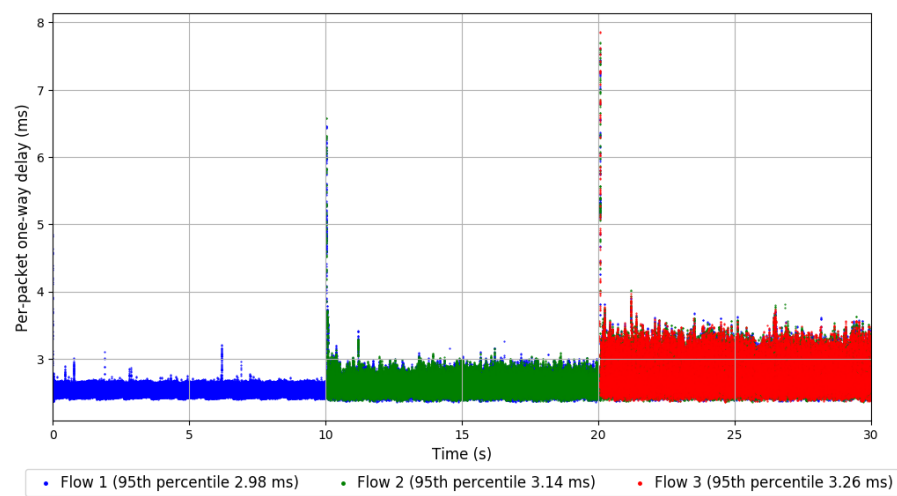
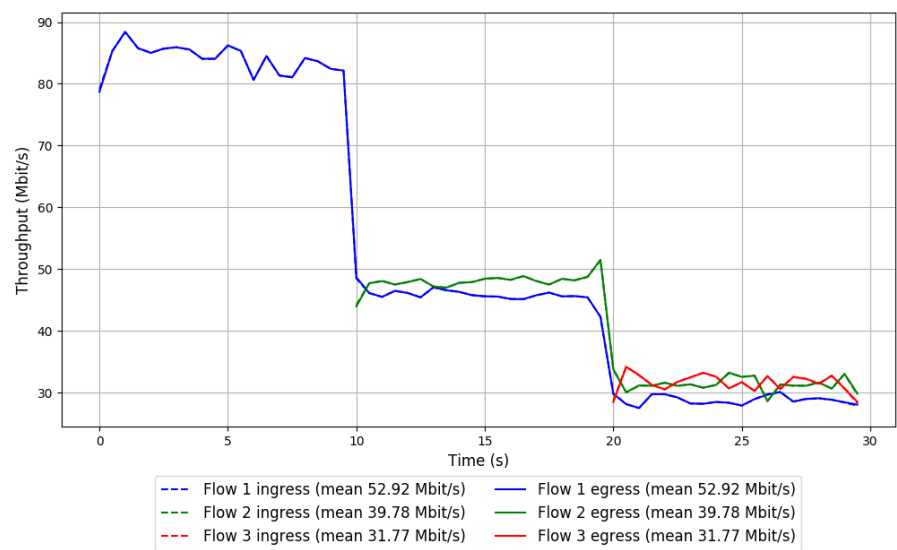
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 3.262 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-03 04:21:37

End at: 2018-02-03 04:22:07

Local clock offset: 0.021 ms

Remote clock offset: 2.154 ms

Below is generated by plot.py at 2018-02-03 05:43:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.99 Mbit/s

95th percentile per-packet one-way delay: 3.017 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 2.891 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 3.041 ms

Loss rate: 0.00%

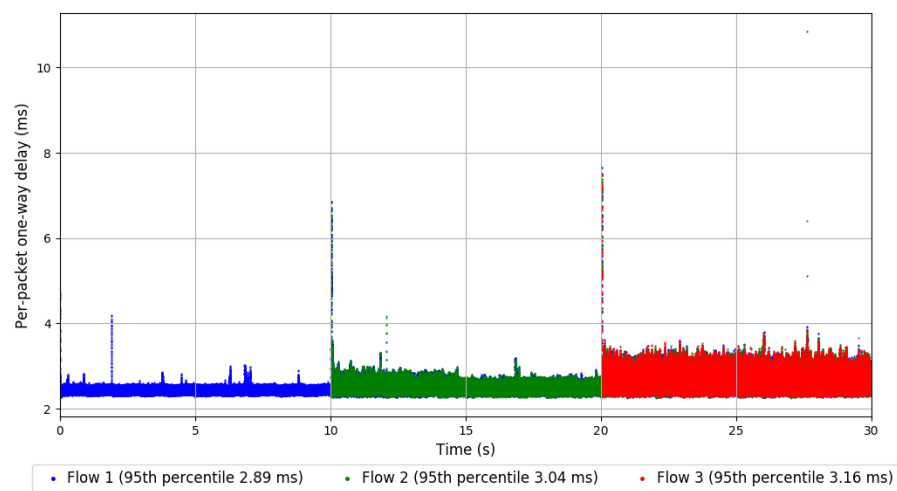
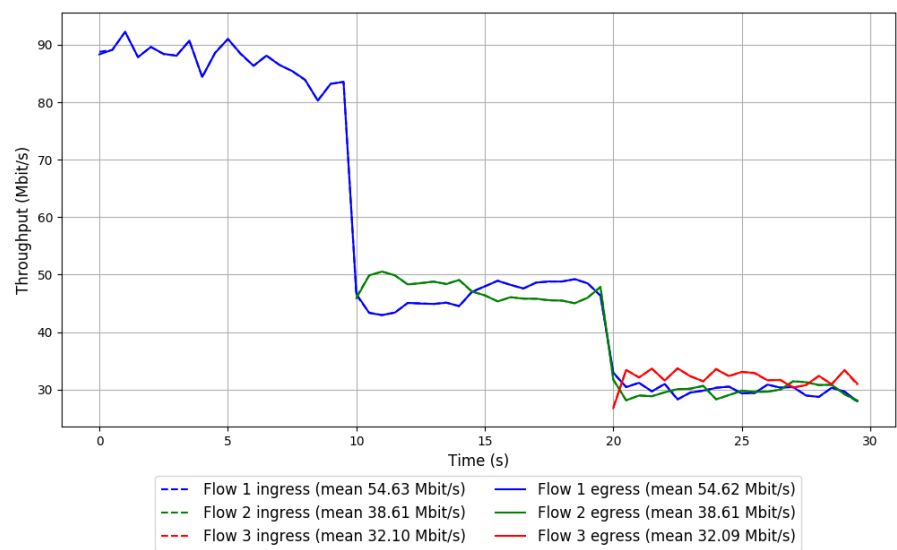
-- Flow 3:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 3.160 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-03 04:42:11

End at: 2018-02-03 04:42:41

Local clock offset: 0.042 ms

Remote clock offset: 2.173 ms

Below is generated by plot.py at 2018-02-03 05:43:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 2.995 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.50 Mbit/s

95th percentile per-packet one-way delay: 3.040 ms

Loss rate: 0.00%

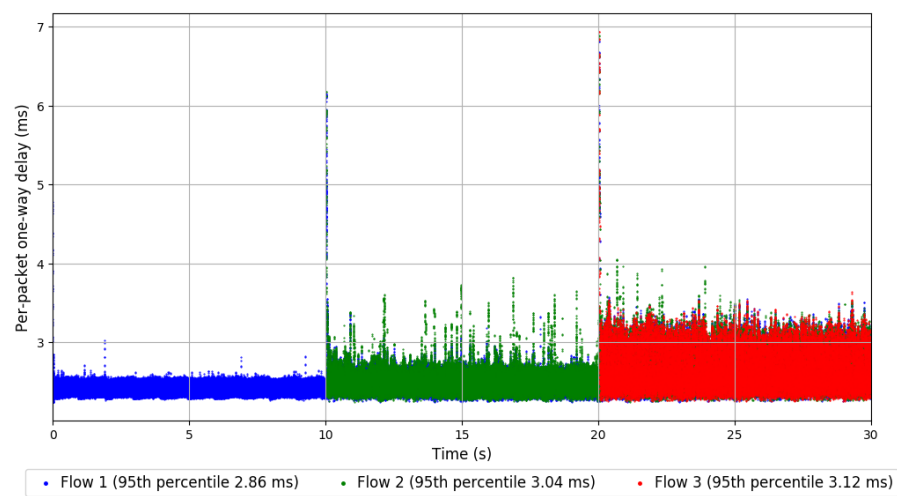
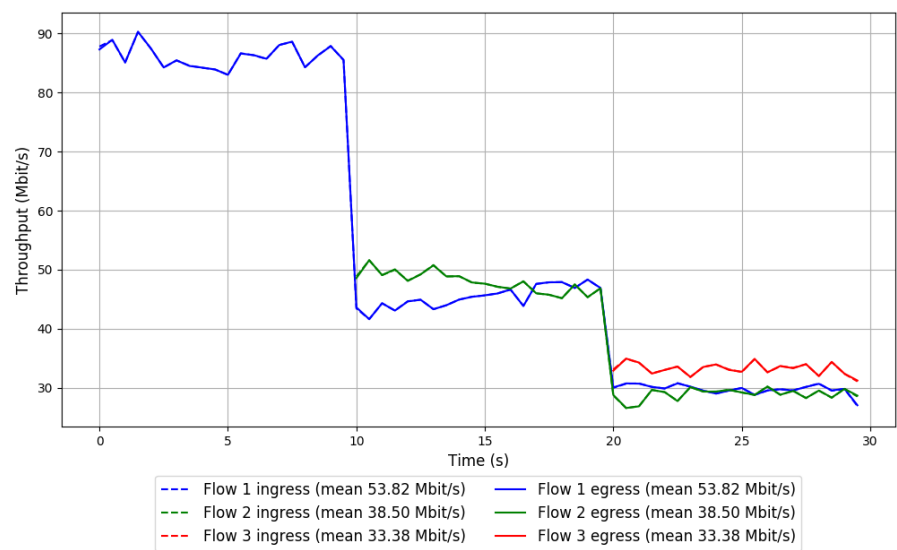
-- Flow 3:

Average throughput: 33.38 Mbit/s

95th percentile per-packet one-way delay: 3.121 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

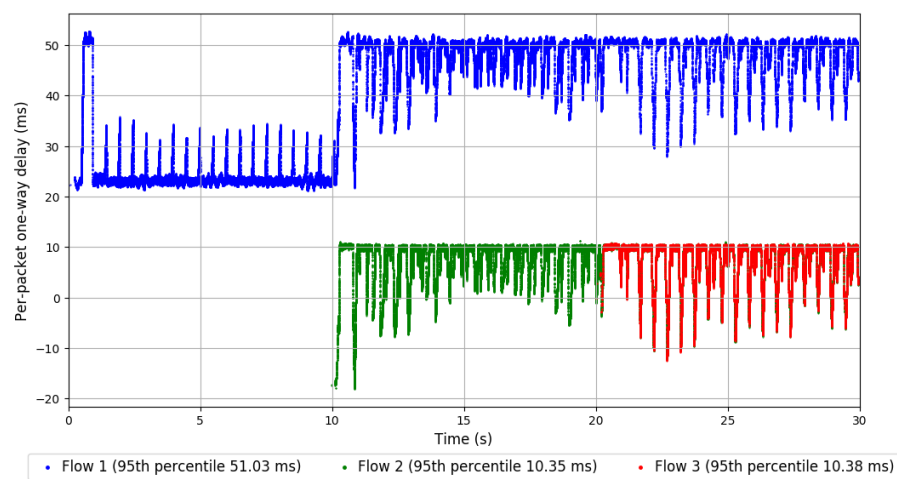
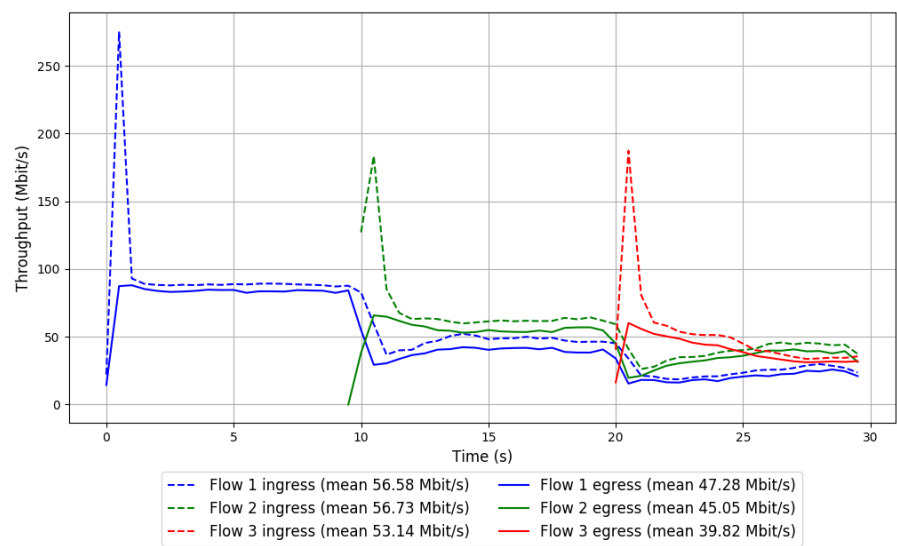


Run 1: Statistics of FillP

Start at: 2018-02-03 01:48:36
End at: 2018-02-03 01:49:06
Local clock offset: 0.082 ms
Remote clock offset: -19.688 ms

Below is generated by plot.py at 2018-02-03 05:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 50.750 ms
Loss rate: 19.19%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 16.49%
-- Flow 2:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 10.354 ms
Loss rate: 20.50%
-- Flow 3:
Average throughput: 39.82 Mbit/s
95th percentile per-packet one-way delay: 10.384 ms
Loss rate: 25.04%

Run 1: Report of FillP — Data Link

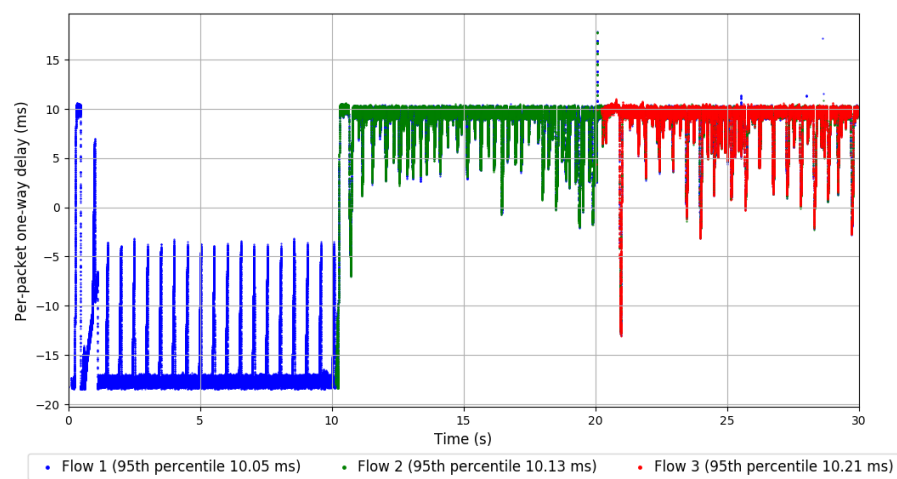
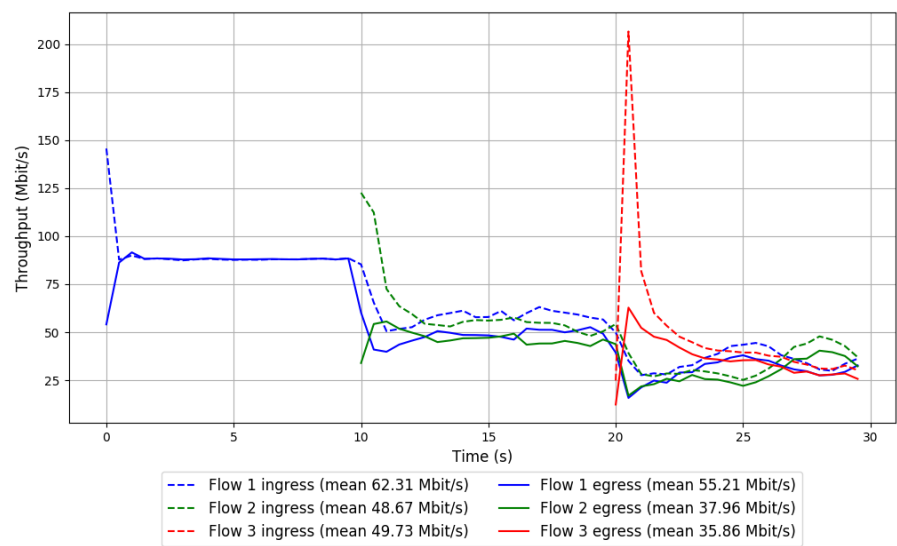


Run 2: Statistics of FillP

Start at: 2018-02-03 02:09:13
End at: 2018-02-03 02:09:43
Local clock offset: 0.014 ms
Remote clock offset: -20.207 ms

Below is generated by plot.py at 2018-02-03 05:44:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 10.105 ms
Loss rate: 16.84%
-- Flow 1:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 10.048 ms
Loss rate: 11.30%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 10.134 ms
Loss rate: 21.90%
-- Flow 3:
Average throughput: 35.86 Mbit/s
95th percentile per-packet one-way delay: 10.205 ms
Loss rate: 27.84%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-03 02:29:47

End at: 2018-02-03 02:30:17

Local clock offset: -0.019 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-02-03 05:44:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 30.680 ms

Loss rate: 16.15%

-- Flow 1:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 30.622 ms

Loss rate: 10.40%

-- Flow 2:

Average throughput: 36.60 Mbit/s

95th percentile per-packet one-way delay: 30.710 ms

Loss rate: 21.08%

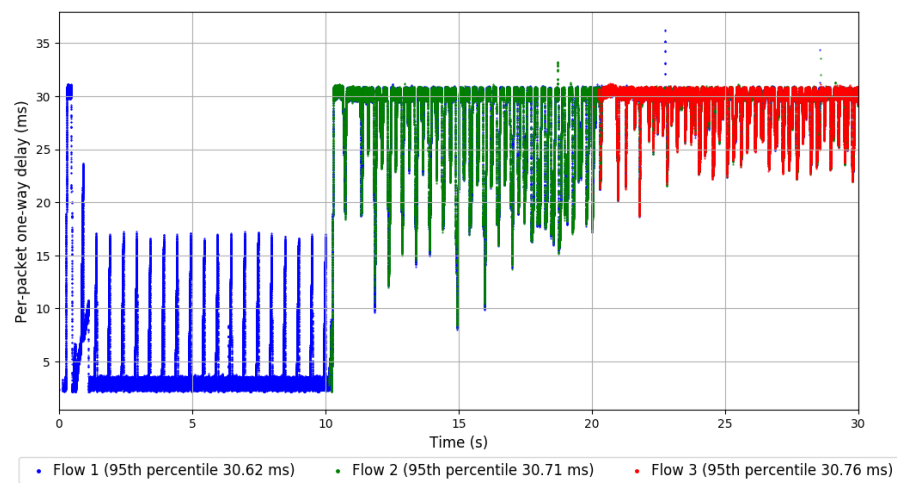
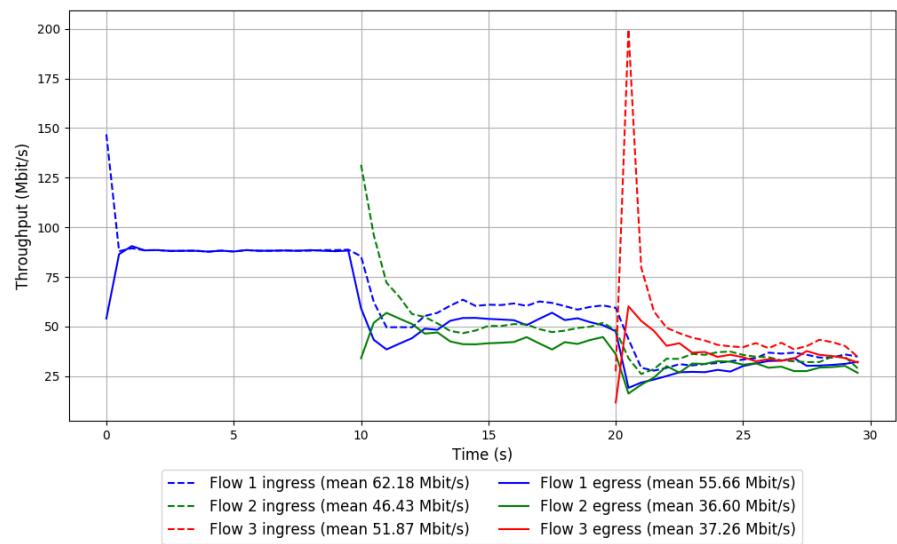
-- Flow 3:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 30.759 ms

Loss rate: 28.10%

Run 3: Report of FillP — Data Link

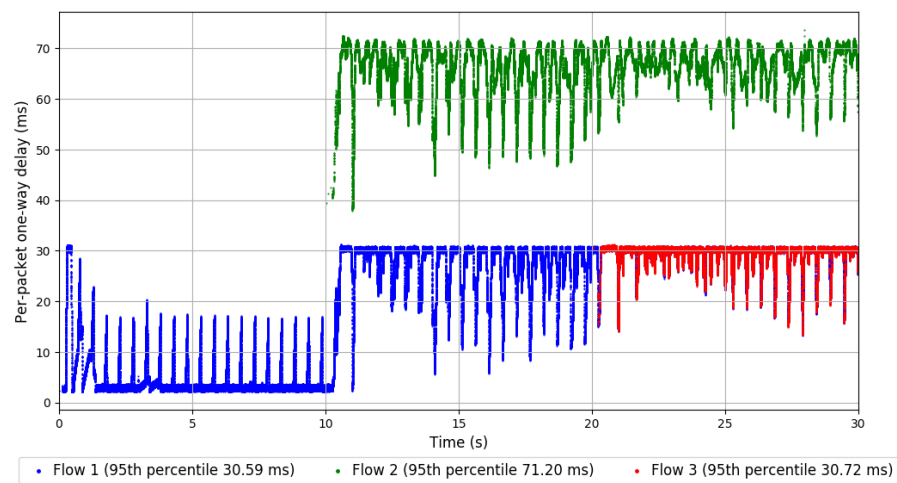
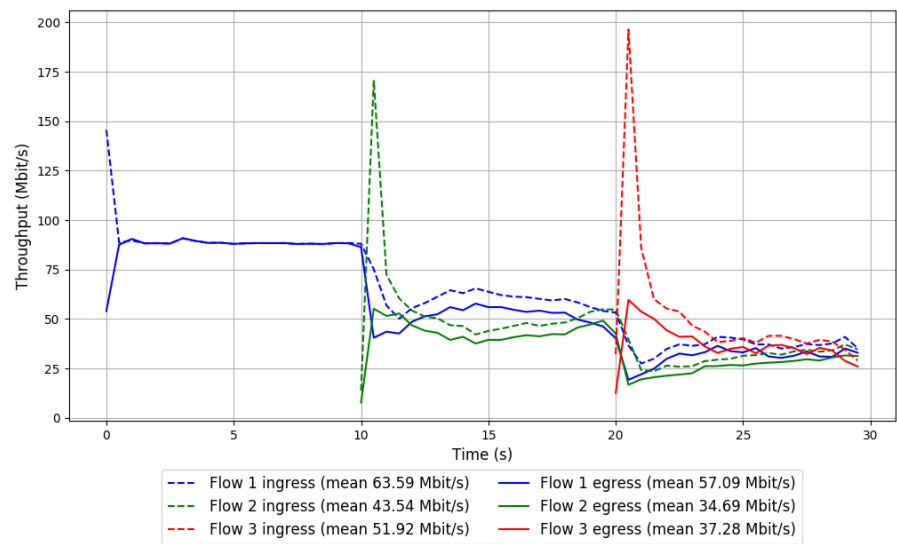


Run 4: Statistics of FillP

Start at: 2018-02-03 02:50:22
End at: 2018-02-03 02:50:52
Local clock offset: -0.025 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-02-03 05:44:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 70.294 ms
Loss rate: 15.69%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 30.593 ms
Loss rate: 10.16%
-- Flow 2:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 71.204 ms
Loss rate: 20.38%
-- Flow 3:
Average throughput: 37.28 Mbit/s
95th percentile per-packet one-way delay: 30.724 ms
Loss rate: 28.23%

Run 4: Report of FillP — Data Link

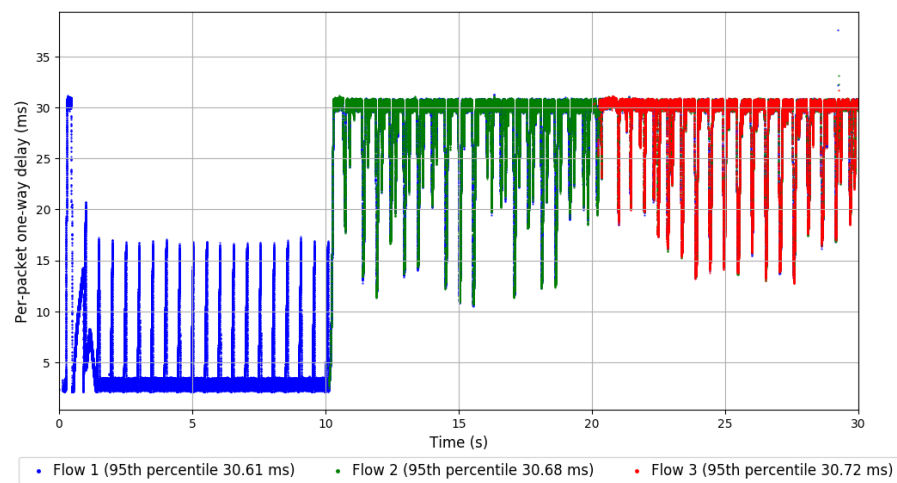
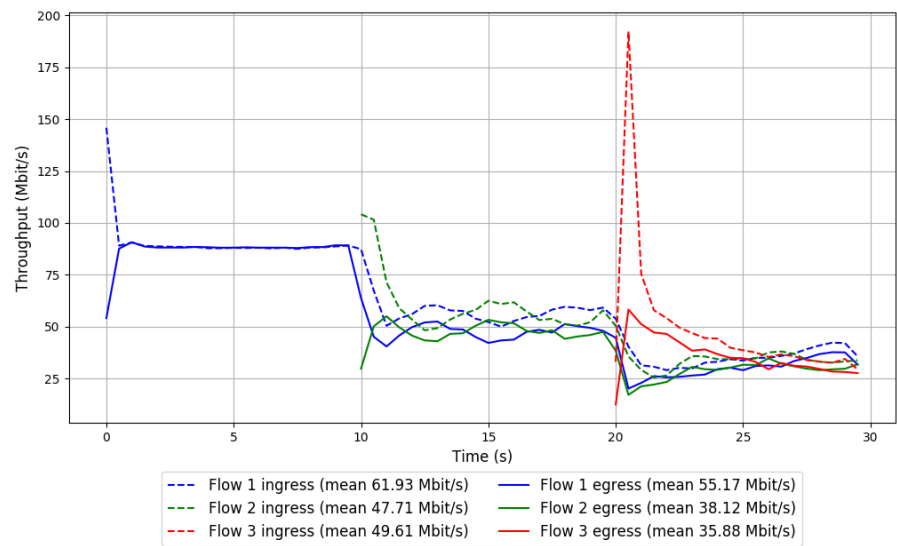


Run 5: Statistics of FillP

Start at: 2018-02-03 03:10:55
End at: 2018-02-03 03:11:25
Local clock offset: -0.046 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-02-03 05:45:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 30.653 ms
Loss rate: 15.99%
-- Flow 1:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 30.608 ms
Loss rate: 10.83%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 30.678 ms
Loss rate: 19.99%
-- Flow 3:
Average throughput: 35.88 Mbit/s
95th percentile per-packet one-way delay: 30.717 ms
Loss rate: 27.68%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-03 03:31:28

End at: 2018-02-03 03:31:58

Local clock offset: -0.037 ms

Remote clock offset: 0.413 ms

Below is generated by plot.py at 2018-02-03 05:45:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 30.580 ms

Loss rate: 15.37%

-- Flow 1:

Average throughput: 55.02 Mbit/s

95th percentile per-packet one-way delay: 30.532 ms

Loss rate: 10.30%

-- Flow 2:

Average throughput: 38.14 Mbit/s

95th percentile per-packet one-way delay: 30.607 ms

Loss rate: 19.07%

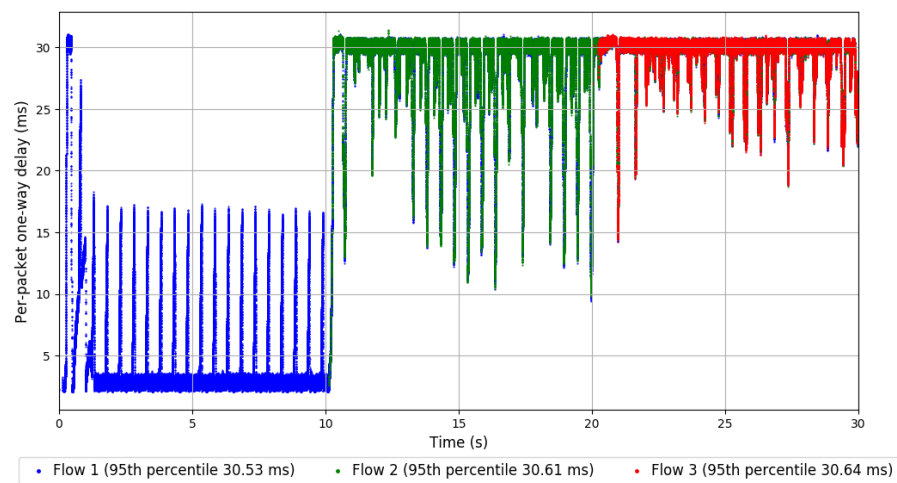
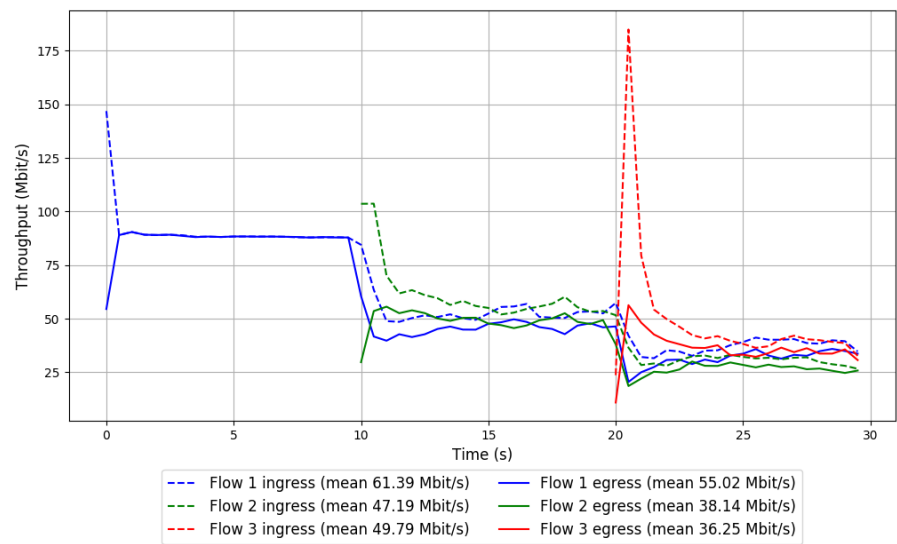
-- Flow 3:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 30.639 ms

Loss rate: 27.20%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-03 03:51:58

End at: 2018-02-03 03:52:28

Local clock offset: 0.0 ms

Remote clock offset: 1.933 ms

Below is generated by plot.py at 2018-02-03 05:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 30.597 ms

Loss rate: 15.75%

-- Flow 1:

Average throughput: 55.11 Mbit/s

95th percentile per-packet one-way delay: 30.551 ms

Loss rate: 11.57%

-- Flow 2:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 30.627 ms

Loss rate: 19.83%

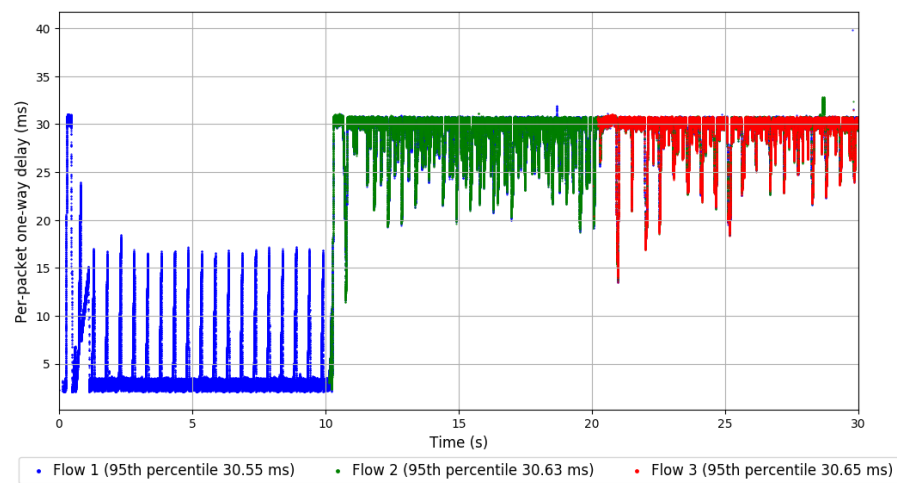
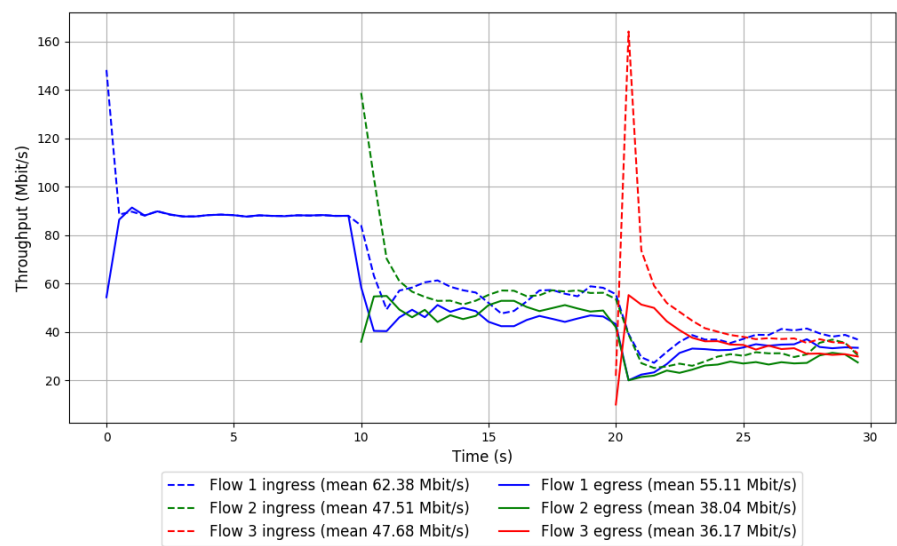
-- Flow 3:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 30.648 ms

Loss rate: 24.09%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-03 04:12:32

End at: 2018-02-03 04:13:02

Local clock offset: -0.01 ms

Remote clock offset: 2.094 ms

Below is generated by plot.py at 2018-02-03 05:46:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 30.655 ms

Loss rate: 15.97%

-- Flow 1:

Average throughput: 54.89 Mbit/s

95th percentile per-packet one-way delay: 30.598 ms

Loss rate: 9.99%

-- Flow 2:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 30.672 ms

Loss rate: 18.95%

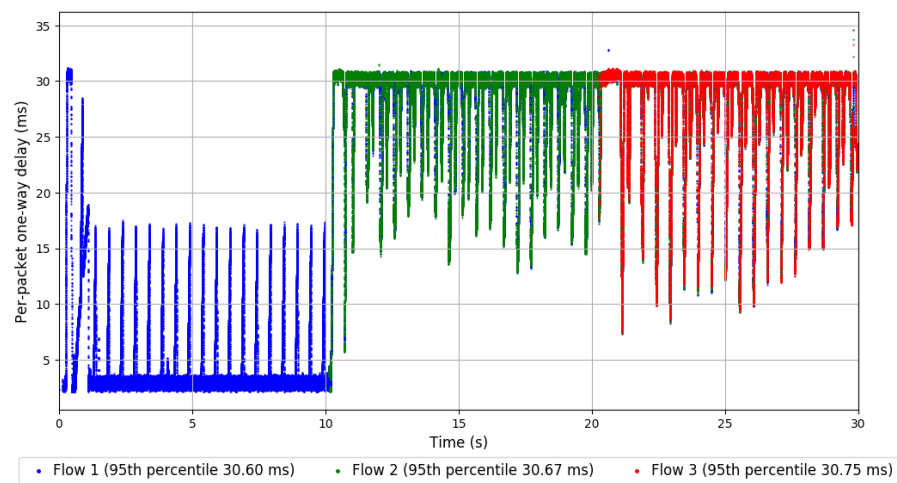
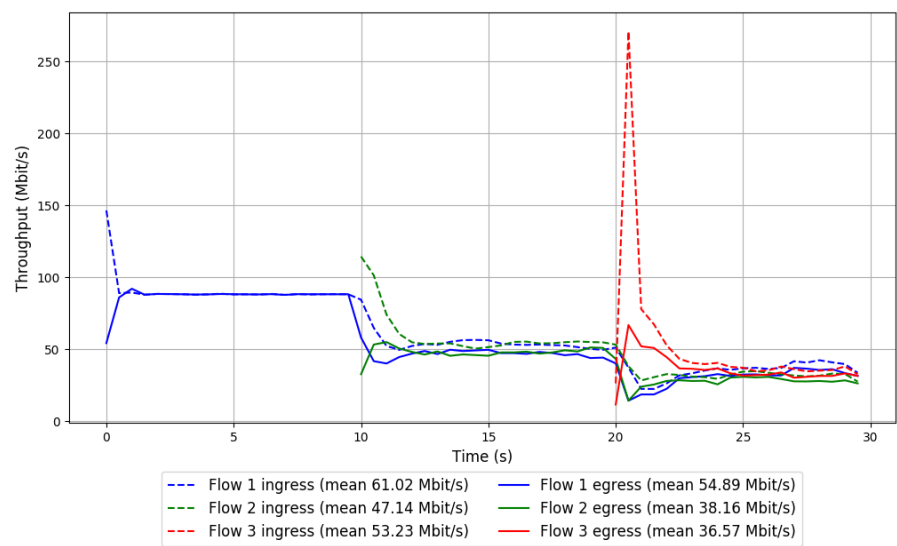
-- Flow 3:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 30.749 ms

Loss rate: 31.34%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-03 04:33:06

End at: 2018-02-03 04:33:36

Local clock offset: -0.007 ms

Remote clock offset: 2.115 ms

Below is generated by plot.py at 2018-02-03 05:47:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 30.609 ms

Loss rate: 16.51%

-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 30.548 ms

Loss rate: 10.74%

-- Flow 2:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: 30.635 ms

Loss rate: 21.20%

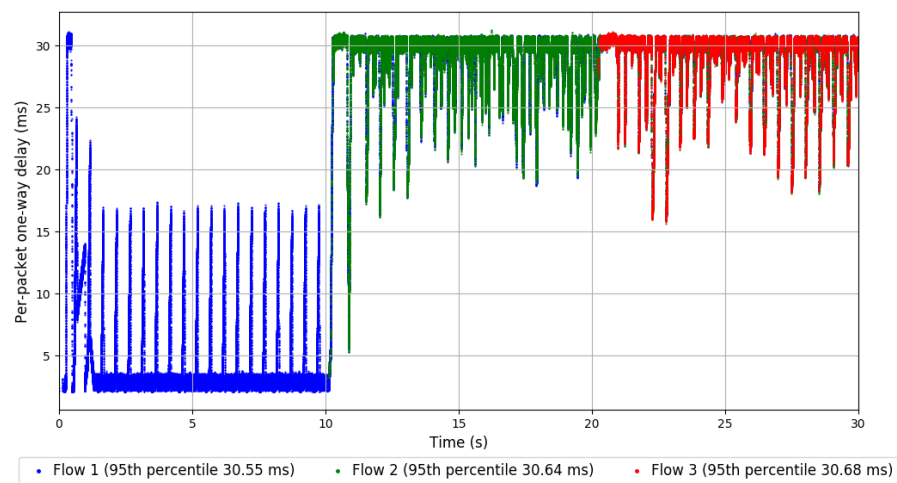
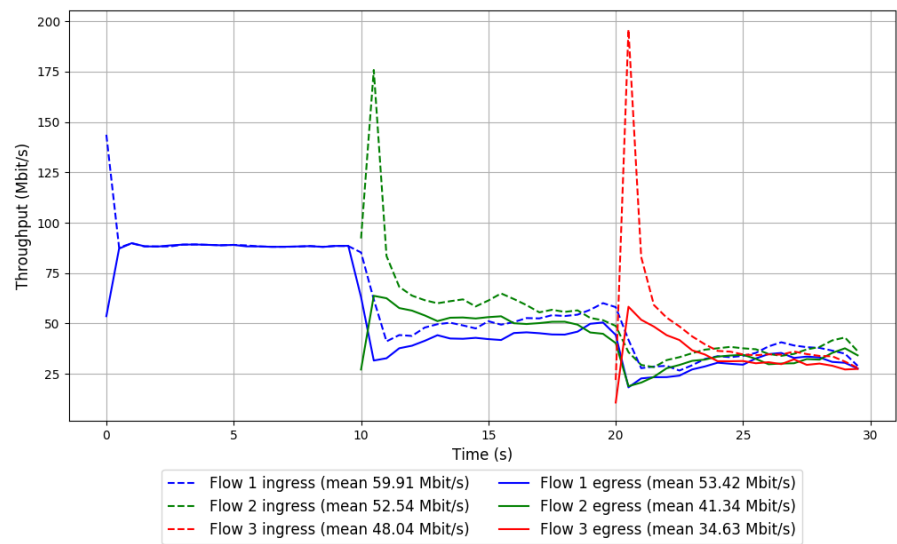
-- Flow 3:

Average throughput: 34.63 Mbit/s

95th percentile per-packet one-way delay: 30.683 ms

Loss rate: 27.91%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-03 04:53:40

End at: 2018-02-03 04:54:10

Local clock offset: 0.042 ms

Remote clock offset: 2.166 ms

Below is generated by plot.py at 2018-02-03 05:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 30.605 ms

Loss rate: 15.46%

-- Flow 1:

Average throughput: 55.48 Mbit/s

95th percentile per-packet one-way delay: 30.550 ms

Loss rate: 10.43%

-- Flow 2:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 30.640 ms

Loss rate: 21.89%

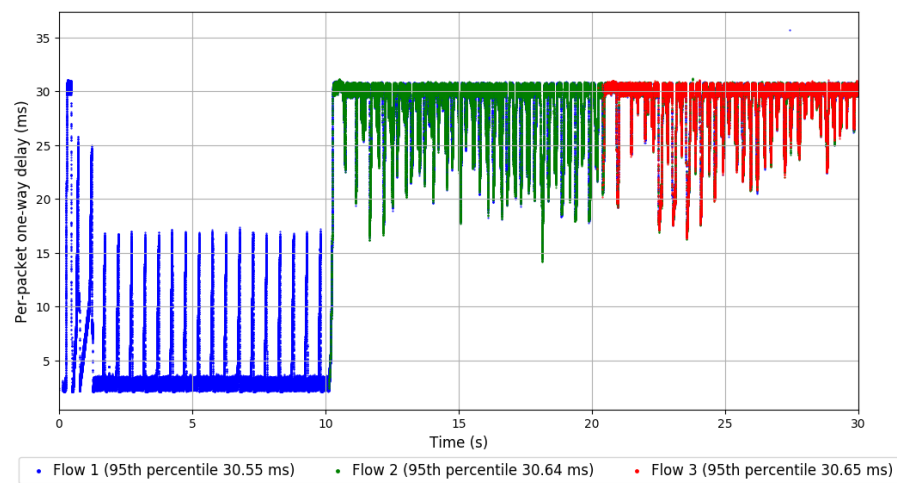
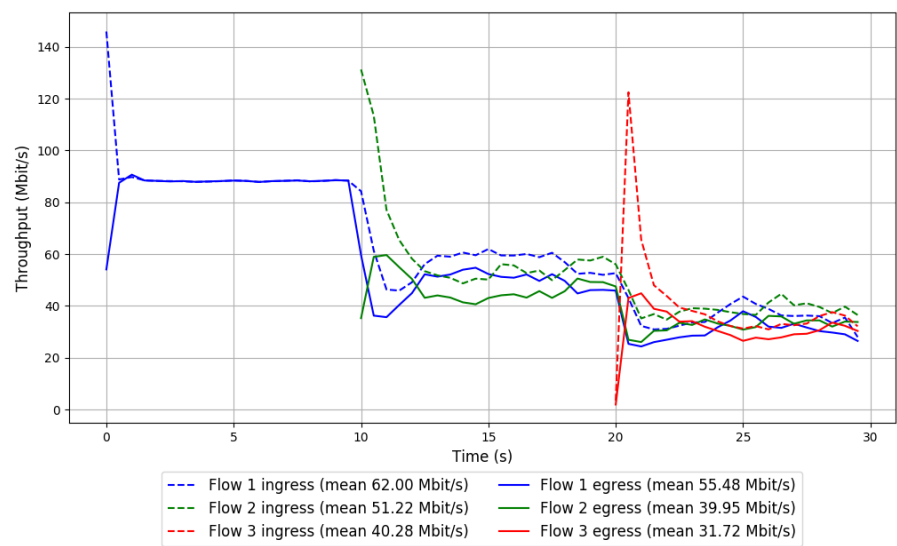
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 30.648 ms

Loss rate: 22.38%

Run 10: Report of FillP — Data Link

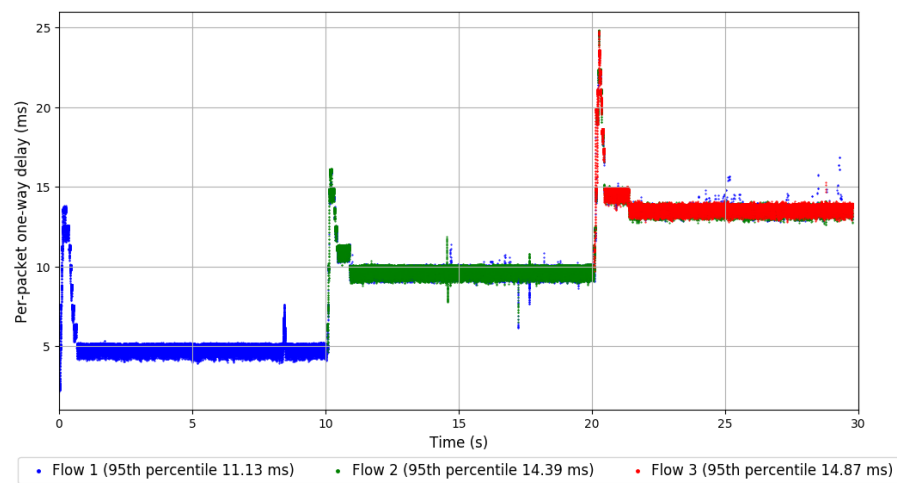
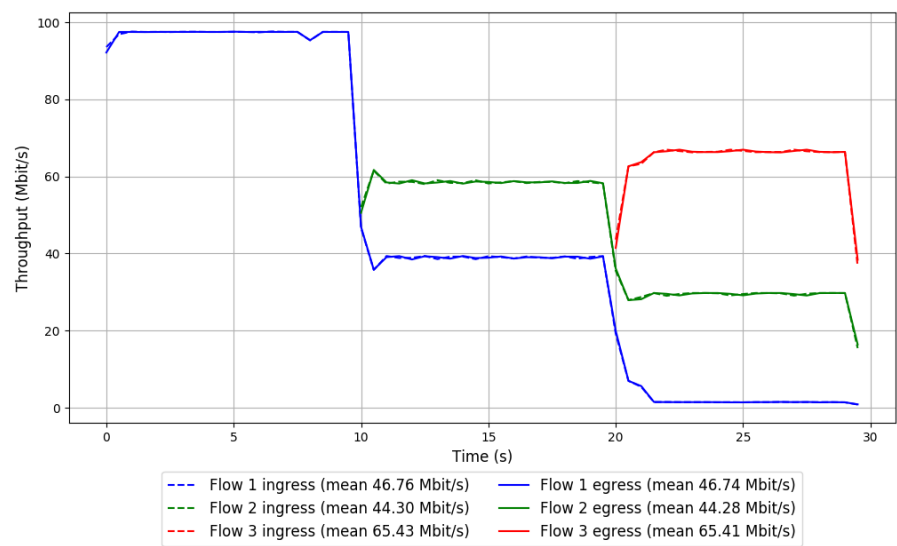


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-03 01:40:41
End at: 2018-02-03 01:41:11
Local clock offset: 0.115 ms
Remote clock offset: 0.78 ms

# Below is generated by plot.py at 2018-02-03 05:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 14.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 11.129 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.28 Mbit/s
95th percentile per-packet one-way delay: 14.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.41 Mbit/s
95th percentile per-packet one-way delay: 14.868 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-03 02:01:15

End at: 2018-02-03 02:01:45

Local clock offset: 0.043 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-02-03 05:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 49.515 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 4.47%

-- Flow 2:

Average throughput: 37.64 Mbit/s

95th percentile per-packet one-way delay: 10.720 ms

Loss rate: 0.00%

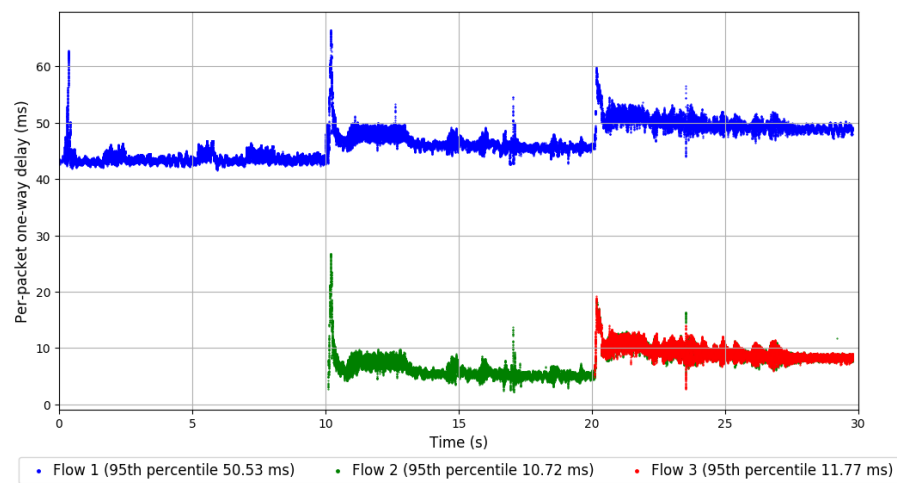
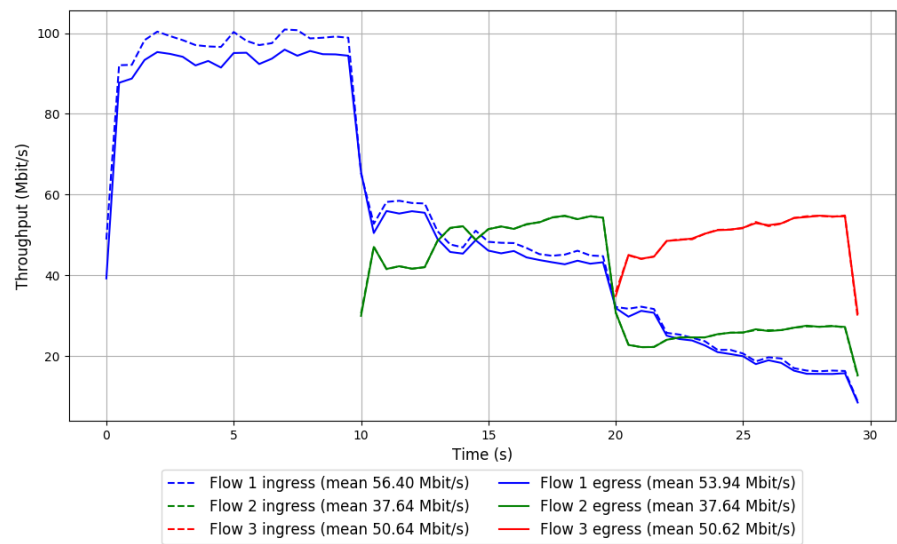
-- Flow 3:

Average throughput: 50.62 Mbit/s

95th percentile per-packet one-way delay: 11.765 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-03 02:21:50

End at: 2018-02-03 02:22:20

Local clock offset: -0.068 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-02-03 05:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 49.616 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 50.07 Mbit/s

95th percentile per-packet one-way delay: 10.187 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.76 Mbit/s

95th percentile per-packet one-way delay: 11.230 ms

Loss rate: 0.00%

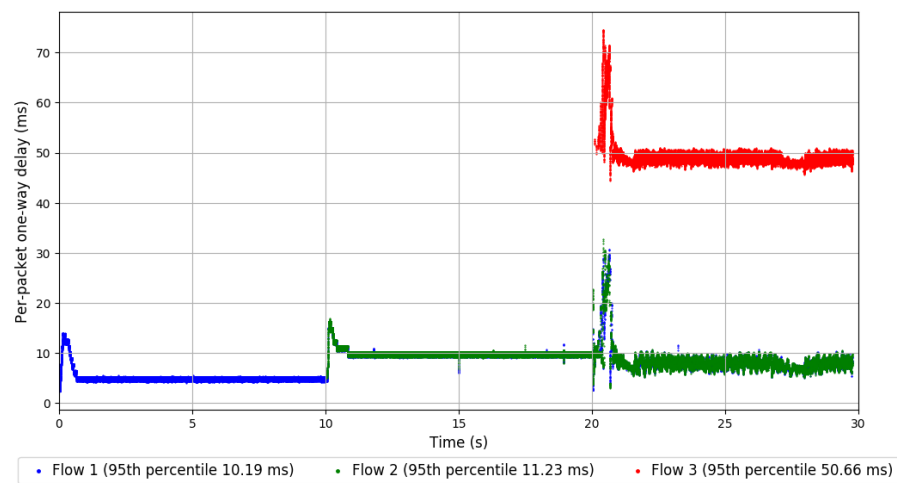
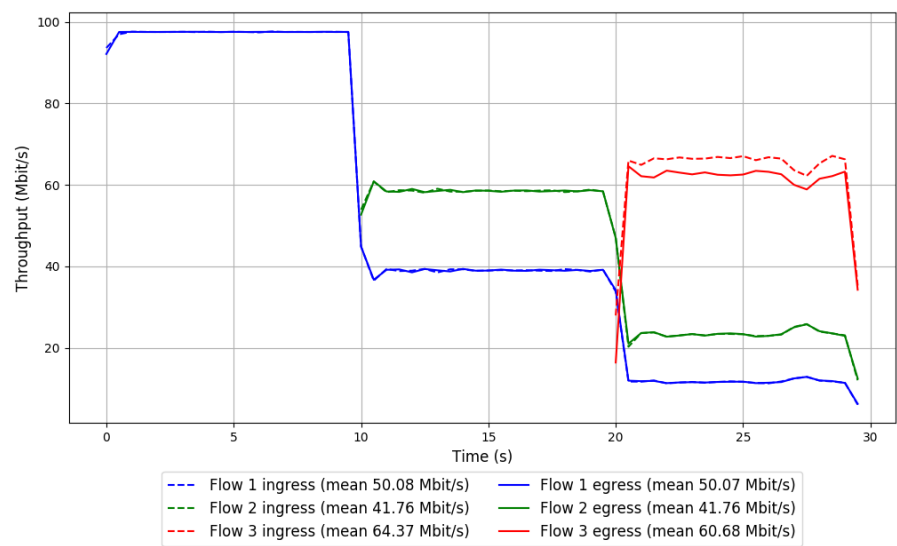
-- Flow 3:

Average throughput: 60.68 Mbit/s

95th percentile per-packet one-way delay: 50.661 ms

Loss rate: 6.16%

Run 3: Report of Indigo-1-32 — Data Link

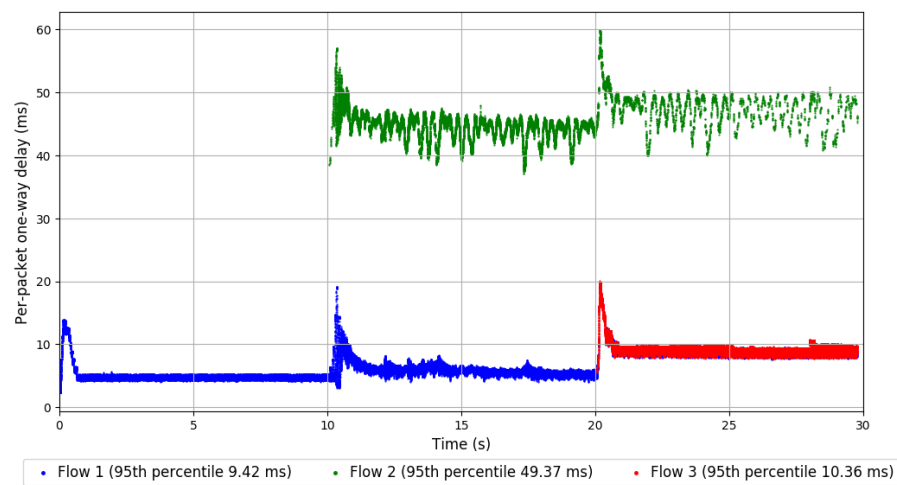
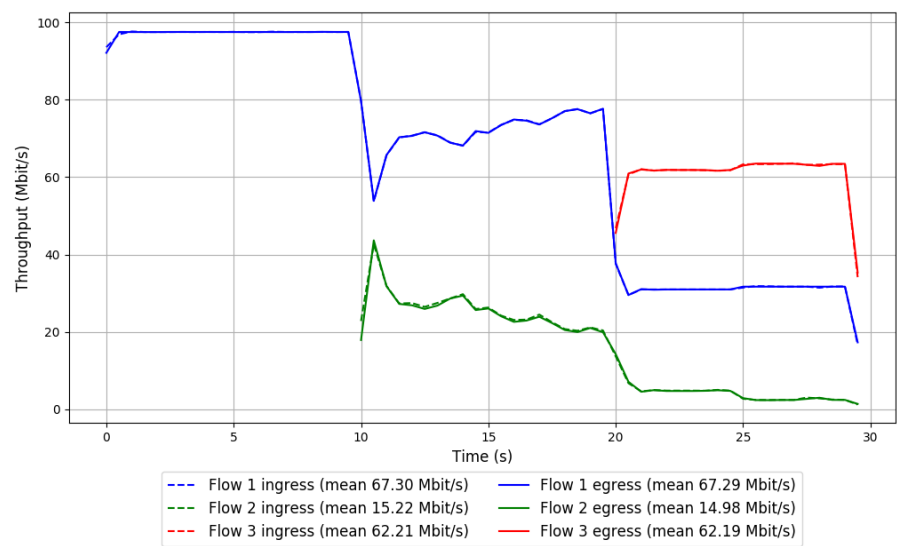


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-03 02:42:23
End at: 2018-02-03 02:42:53
Local clock offset: -0.029 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-02-03 05:47:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 45.220 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 9.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.98 Mbit/s
95th percentile per-packet one-way delay: 49.366 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 10.362 ms
Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link

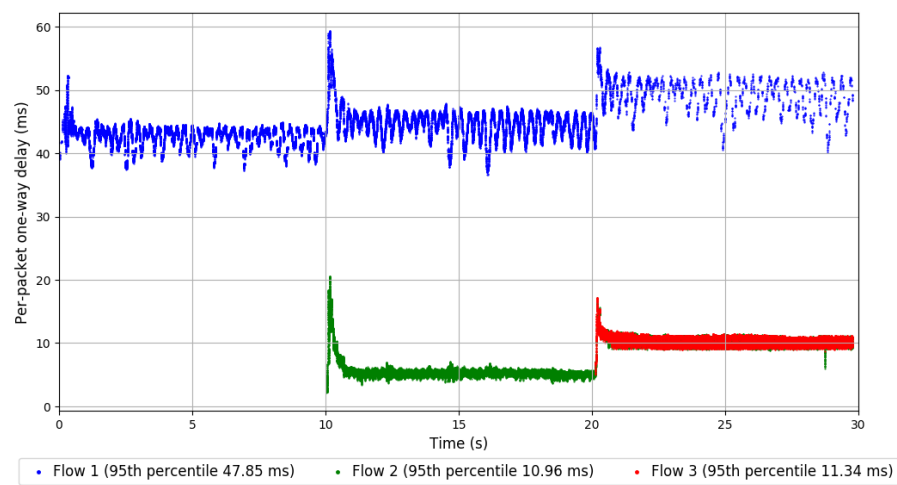
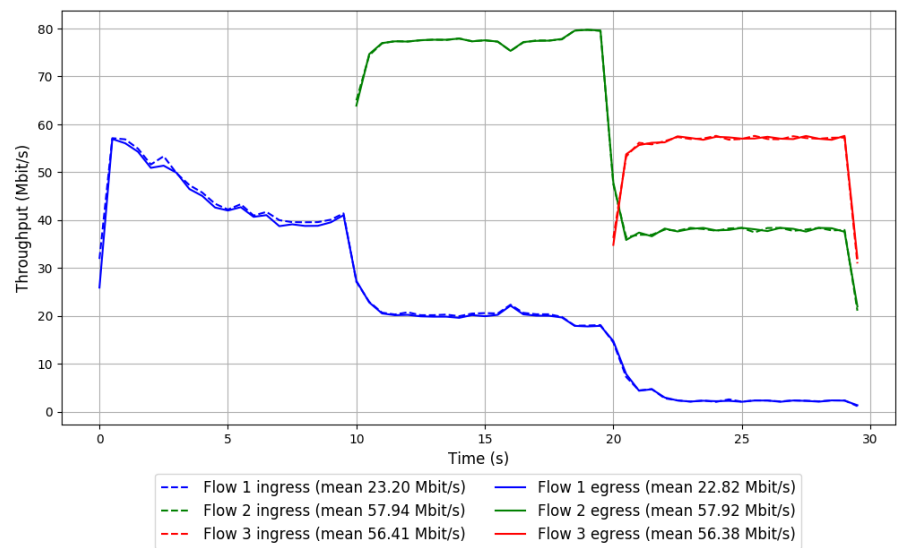


Run 5: Statistics of Indigo-1-32

Start at: 2018-02-03 03:02:59
End at: 2018-02-03 03:03:29
Local clock offset: -0.041 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-02-03 05:47:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 45.488 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 47.850 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 10.965 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.38 Mbit/s
95th percentile per-packet one-way delay: 11.338 ms
Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link

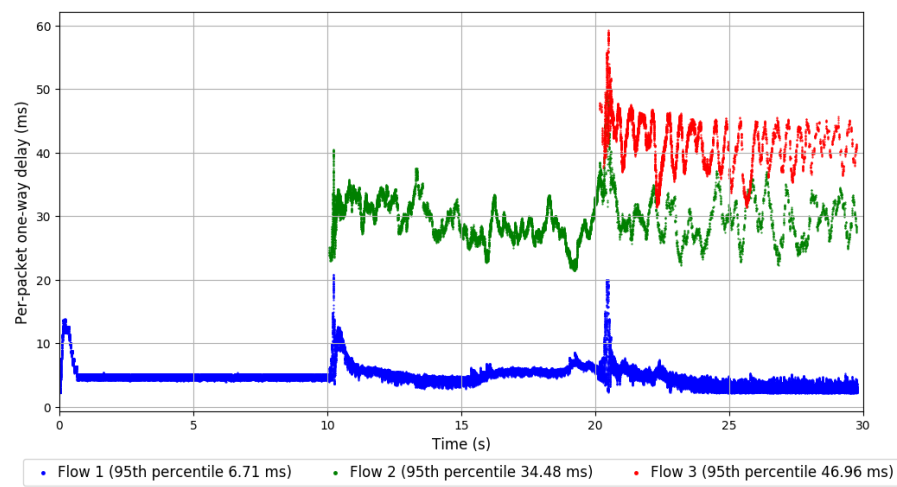
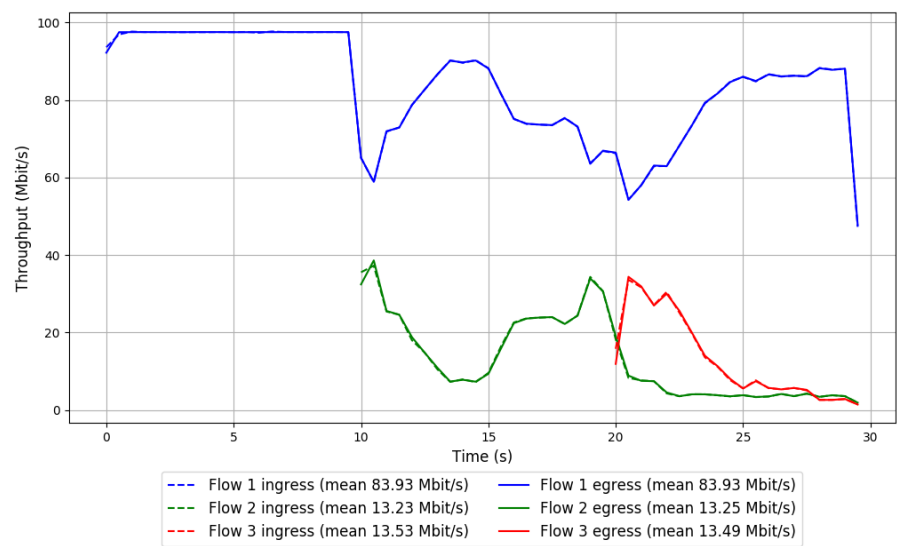


Run 6: Statistics of Indigo-1-32

Start at: 2018-02-03 03:23:31
End at: 2018-02-03 03:24:01
Local clock offset: -0.055 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-02-03 05:47:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 33.928 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 6.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 34.485 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 13.49 Mbit/s
95th percentile per-packet one-way delay: 46.962 ms
Loss rate: 0.78%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-03 03:44:02

End at: 2018-02-03 03:44:32

Local clock offset: -0.124 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2018-02-03 05:47:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 12.799 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 11.114 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 13.095 ms

Loss rate: 0.00%

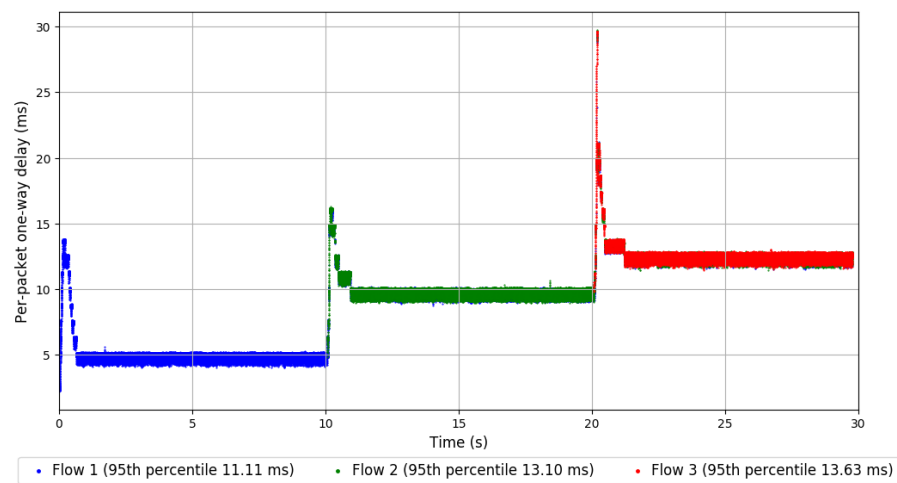
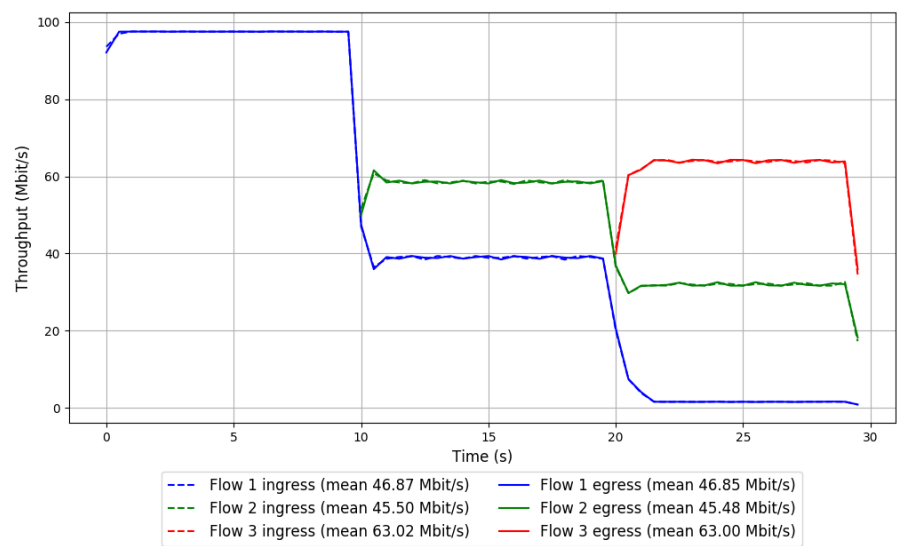
-- Flow 3:

Average throughput: 63.00 Mbit/s

95th percentile per-packet one-way delay: 13.635 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-03 04:04:34

End at: 2018-02-03 04:05:04

Local clock offset: 0.008 ms

Remote clock offset: 2.101 ms

Below is generated by plot.py at 2018-02-03 05:48:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 11.393 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 10.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 13.300 ms

Loss rate: 0.00%

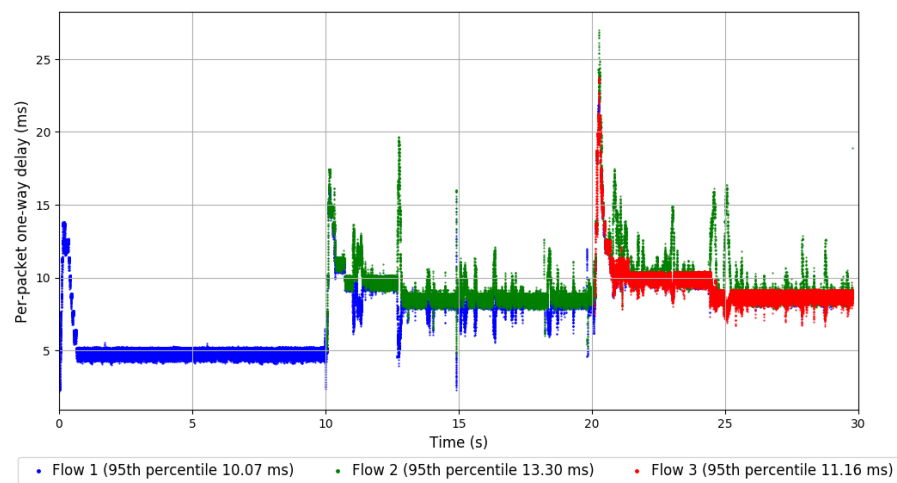
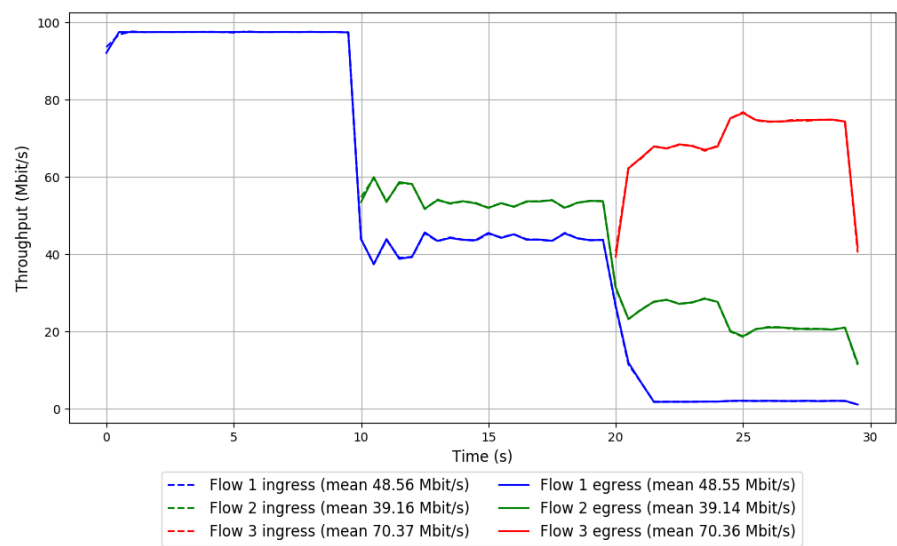
-- Flow 3:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 11.156 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-03 04:25:08

End at: 2018-02-03 04:25:38

Local clock offset: 0.024 ms

Remote clock offset: 2.176 ms

Below is generated by plot.py at 2018-02-03 05:48:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 12.825 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.86 Mbit/s

95th percentile per-packet one-way delay: 11.111 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.39 Mbit/s

95th percentile per-packet one-way delay: 13.020 ms

Loss rate: 0.00%

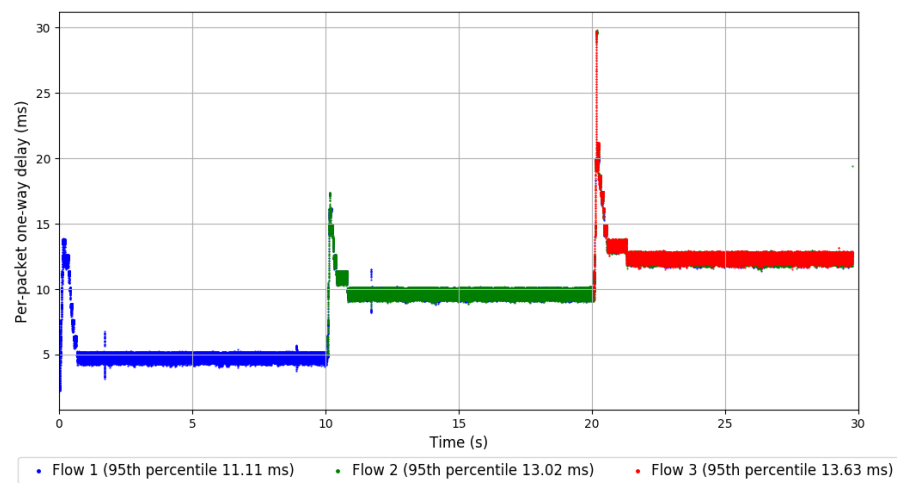
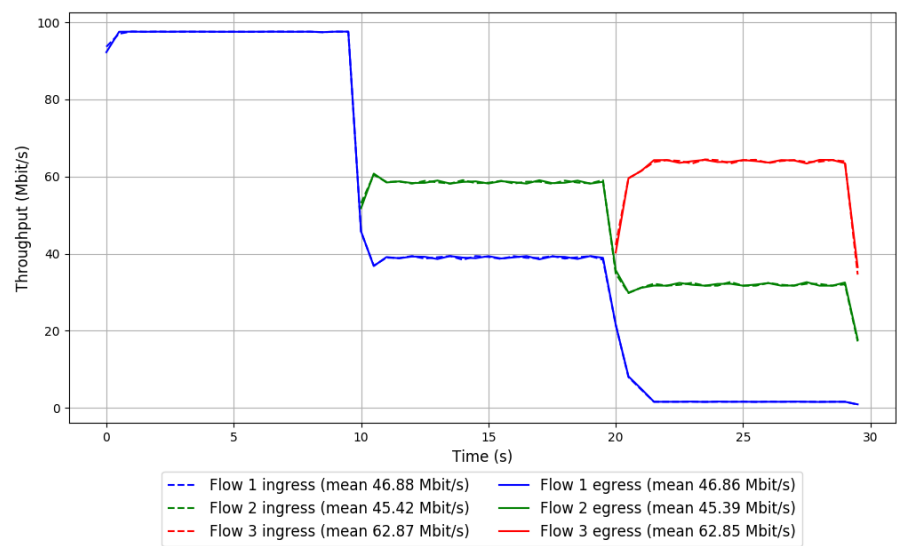
-- Flow 3:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 13.629 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-03 04:45:42

End at: 2018-02-03 04:46:12

Local clock offset: 0.039 ms

Remote clock offset: 2.166 ms

Below is generated by plot.py at 2018-02-03 05:48:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 11.547 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 10.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.95 Mbit/s

95th percentile per-packet one-way delay: 11.540 ms

Loss rate: 0.00%

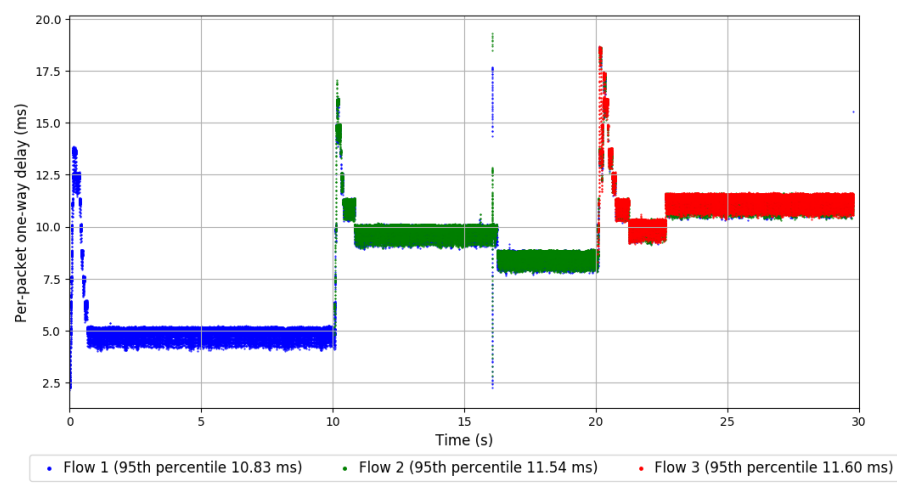
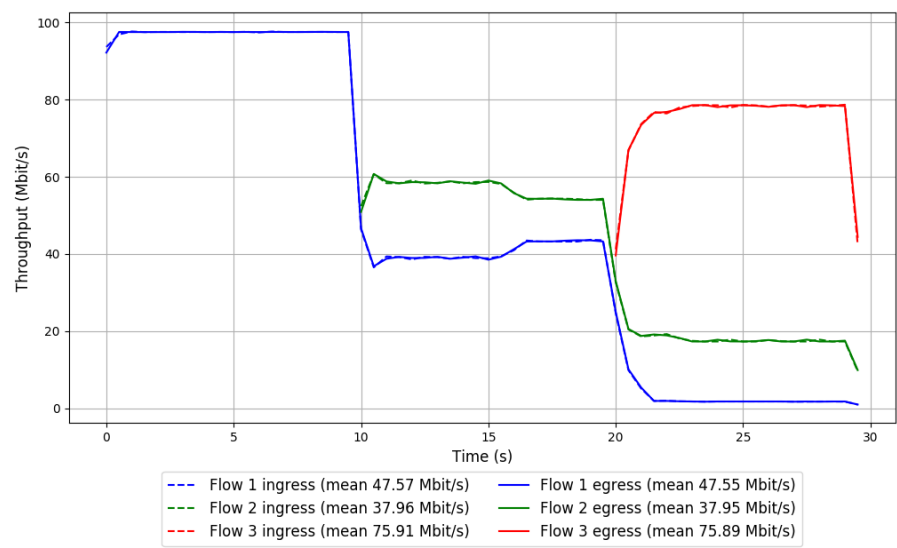
-- Flow 3:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 11.596 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-02-03 01:45:16

End at: 2018-02-03 01:45:46

Local clock offset: 0.098 ms

Remote clock offset: 0.702 ms

Below is generated by plot.py at 2018-02-03 05:48:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.81 Mbit/s

95th percentile per-packet one-way delay: 5.799 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 72.65 Mbit/s

95th percentile per-packet one-way delay: 2.701 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 42.903 ms

Loss rate: 5.41%

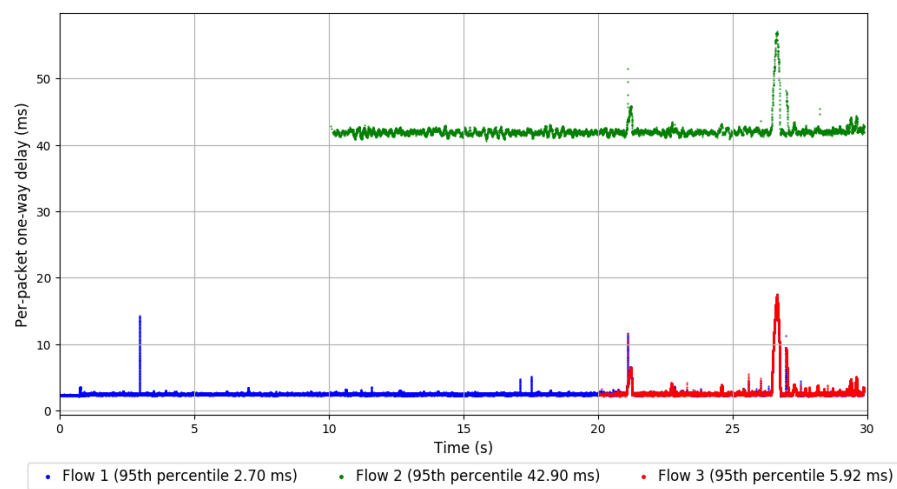
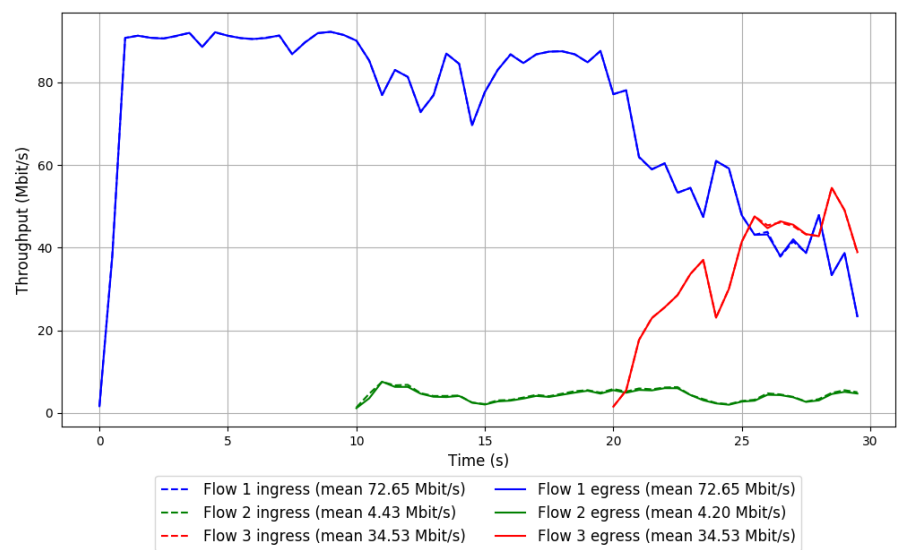
-- Flow 3:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 5.925 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-03 02:05:51

End at: 2018-02-03 02:06:21

Local clock offset: -0.043 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-02-03 05:48:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.99 Mbit/s

95th percentile per-packet one-way delay: 3.772 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.69 Mbit/s

95th percentile per-packet one-way delay: 3.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 4.790 ms

Loss rate: 0.00%

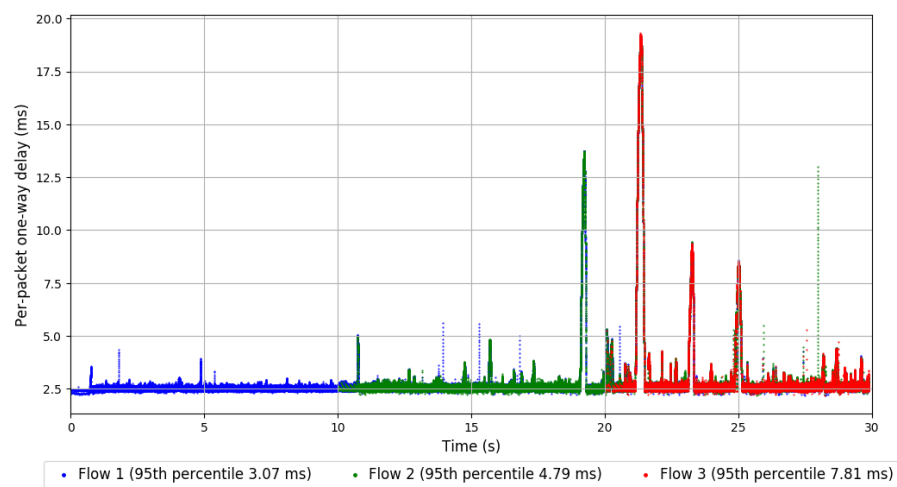
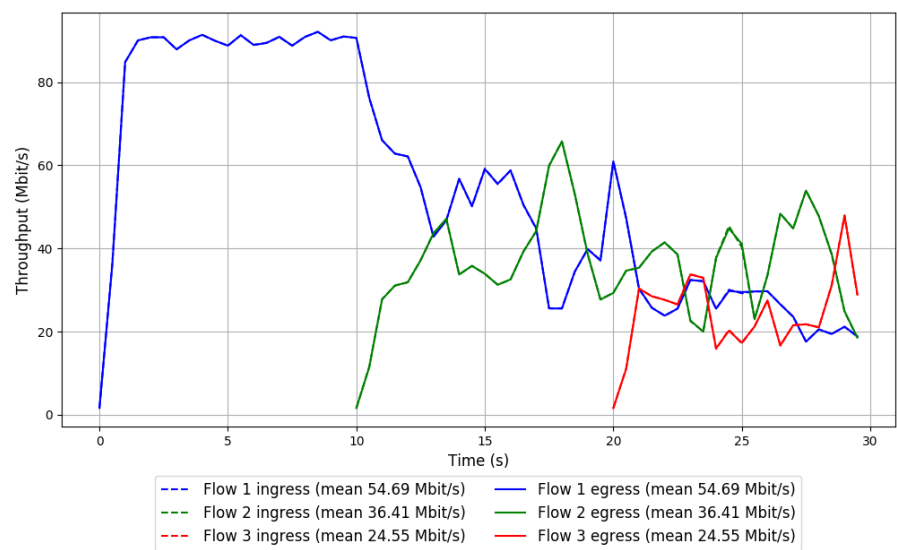
-- Flow 3:

Average throughput: 24.55 Mbit/s

95th percentile per-packet one-way delay: 7.808 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-03 02:26:26

End at: 2018-02-03 02:26:56

Local clock offset: -0.023 ms

Remote clock offset: -19.7 ms

Below is generated by plot.py at 2018-02-03 05:48:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: -16.649 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: -16.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: -16.305 ms

Loss rate: 0.00%

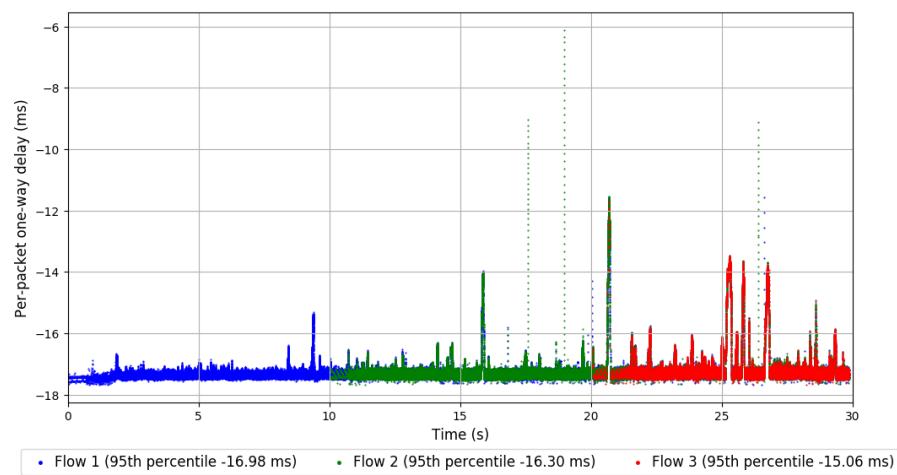
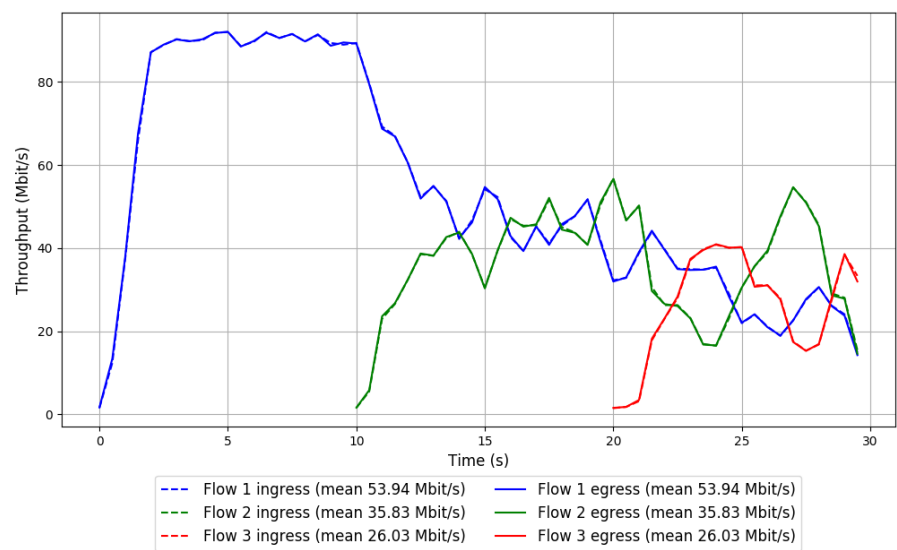
-- Flow 3:

Average throughput: 26.03 Mbit/s

95th percentile per-packet one-way delay: -15.062 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link

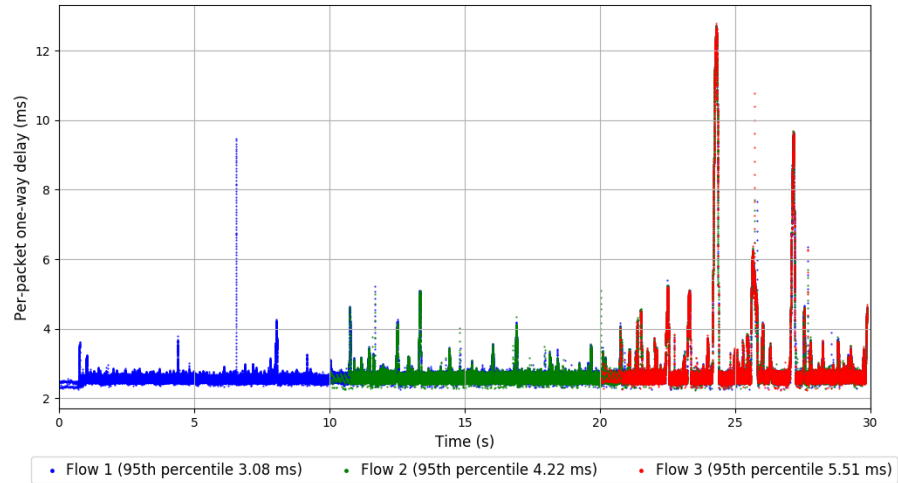
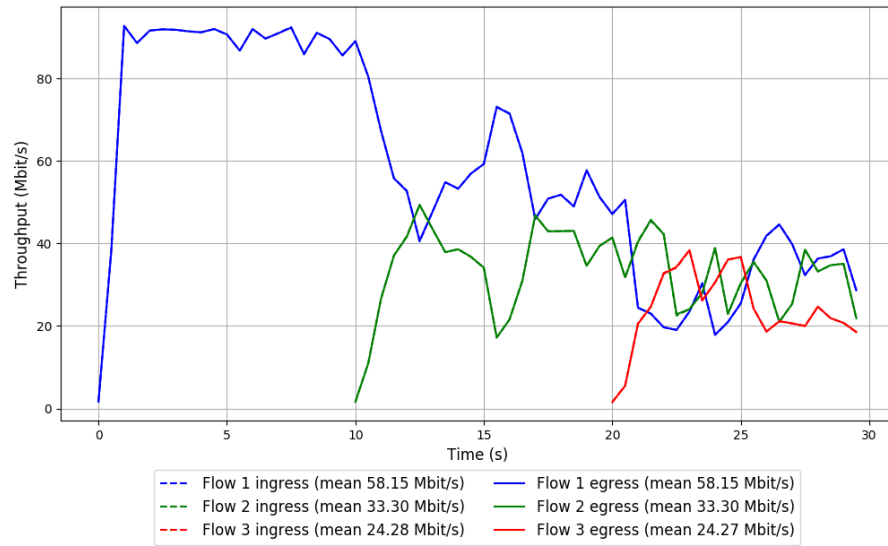


Run 4: Statistics of Vivace-latency

Start at: 2018-02-03 02:47:00
End at: 2018-02-03 02:47:30
Local clock offset: -0.106 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-02-03 05:48:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 3.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.15 Mbit/s
95th percentile per-packet one-way delay: 3.077 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 4.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 5.508 ms
Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link

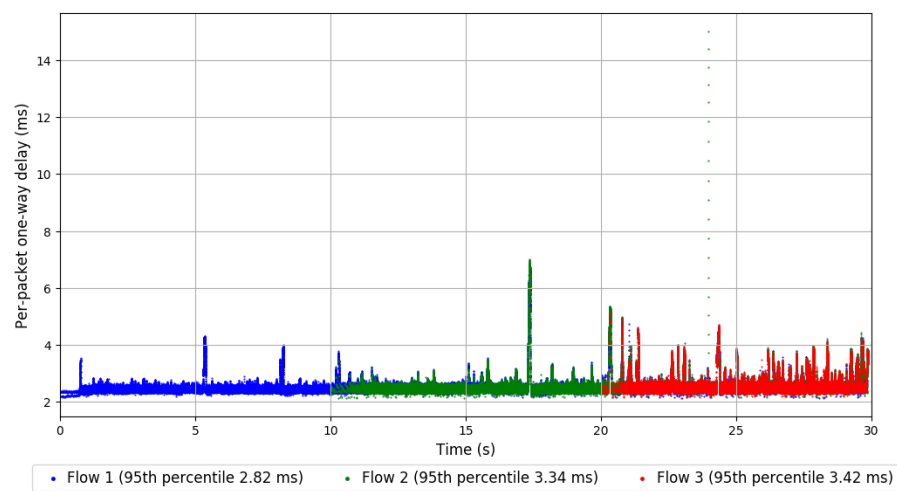
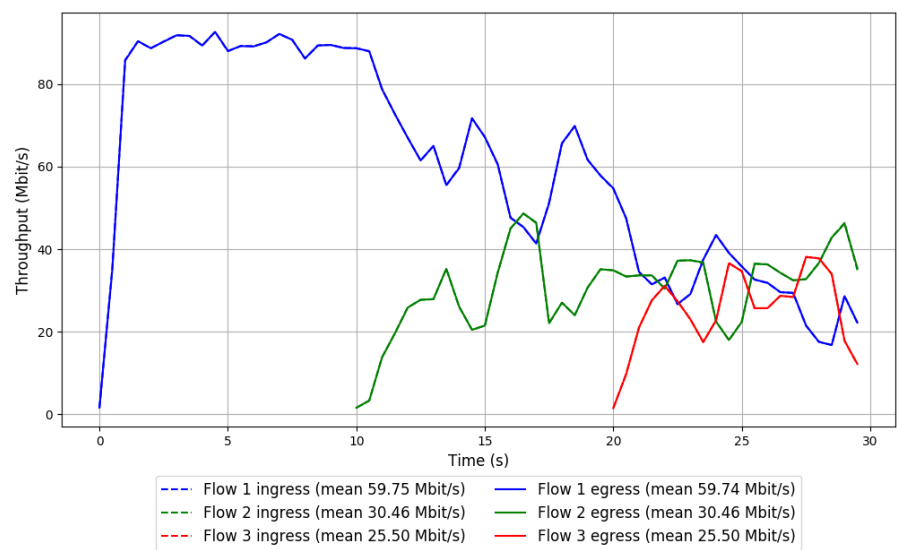


Run 5: Statistics of Vivace-latency

Start at: 2018-02-03 03:07:33
End at: 2018-02-03 03:08:03
Local clock offset: -0.038 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2018-02-03 05:49:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 3.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 2.820 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 3.336 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.50 Mbit/s
95th percentile per-packet one-way delay: 3.419 ms
Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-03 03:28:08

End at: 2018-02-03 03:28:38

Local clock offset: -0.109 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-02-03 05:49:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 42.240 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 43.592 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 2.841 ms

Loss rate: 0.00%

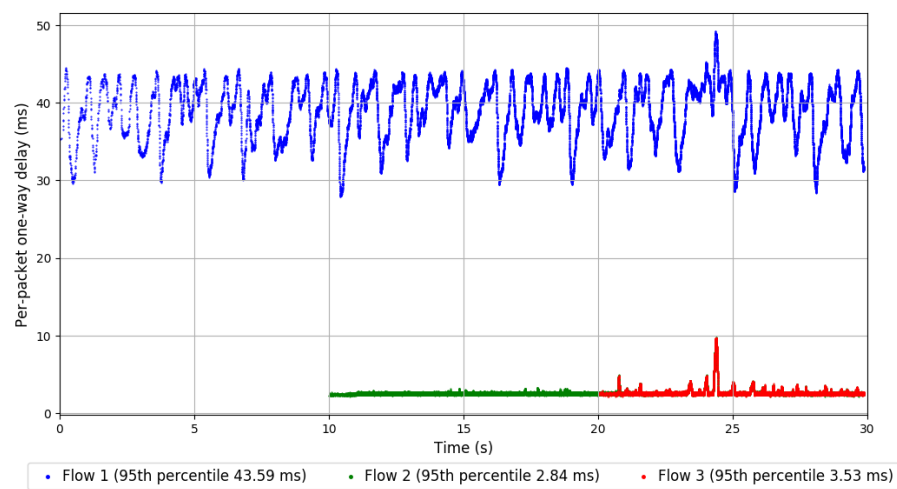
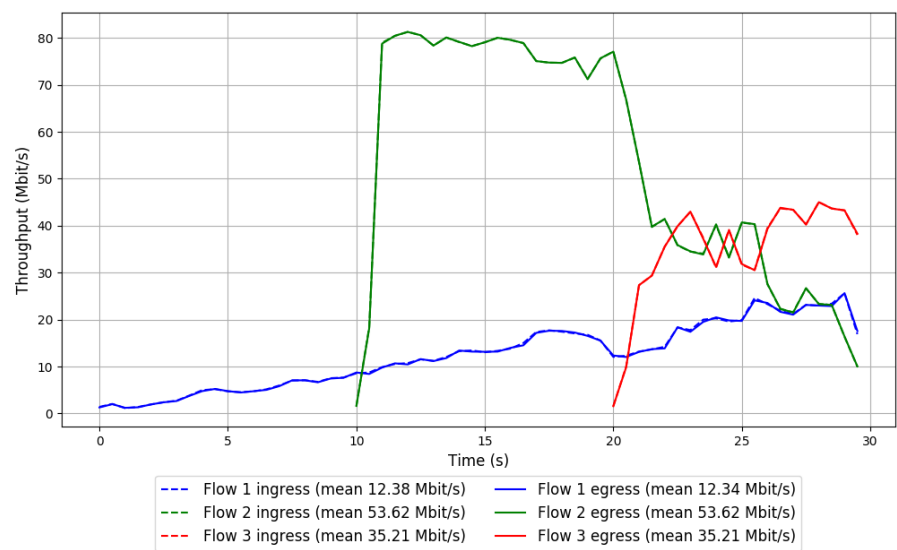
-- Flow 3:

Average throughput: 35.21 Mbit/s

95th percentile per-packet one-way delay: 3.532 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-03 03:48:38

End at: 2018-02-03 03:49:08

Local clock offset: -0.013 ms

Remote clock offset: 1.72 ms

Below is generated by plot.py at 2018-02-03 05:49:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 9.030 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 25.43 Mbit/s

95th percentile per-packet one-way delay: 11.469 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.73 Mbit/s

95th percentile per-packet one-way delay: 3.999 ms

Loss rate: 0.00%

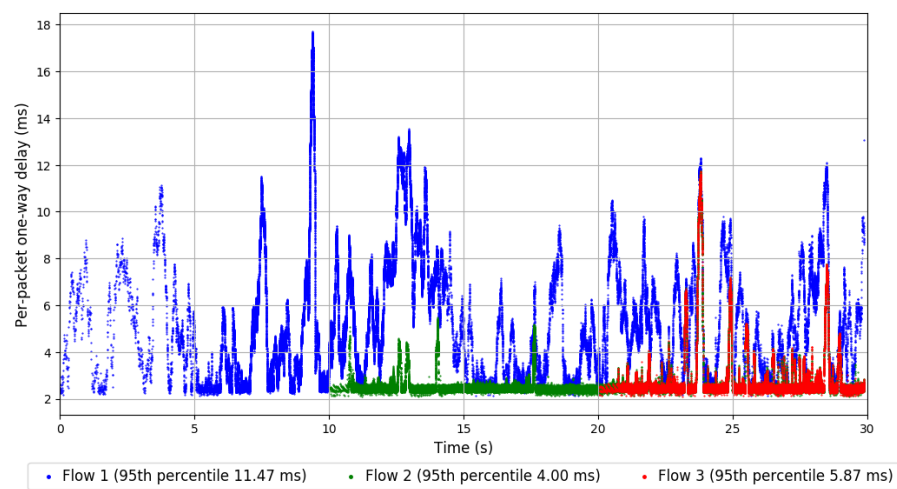
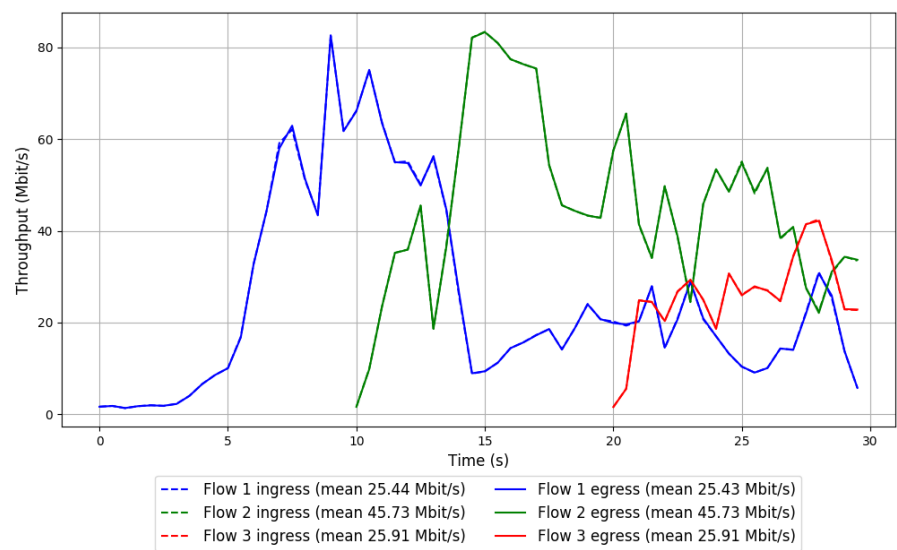
-- Flow 3:

Average throughput: 25.91 Mbit/s

95th percentile per-packet one-way delay: 5.872 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link

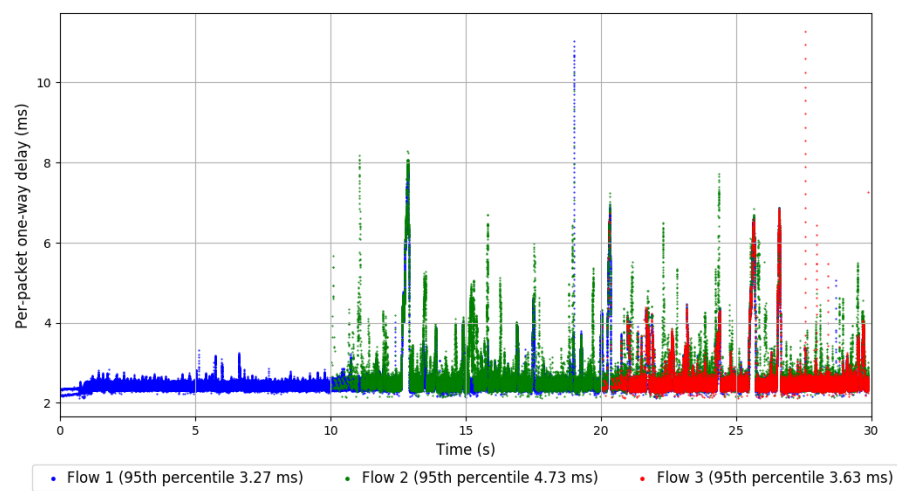
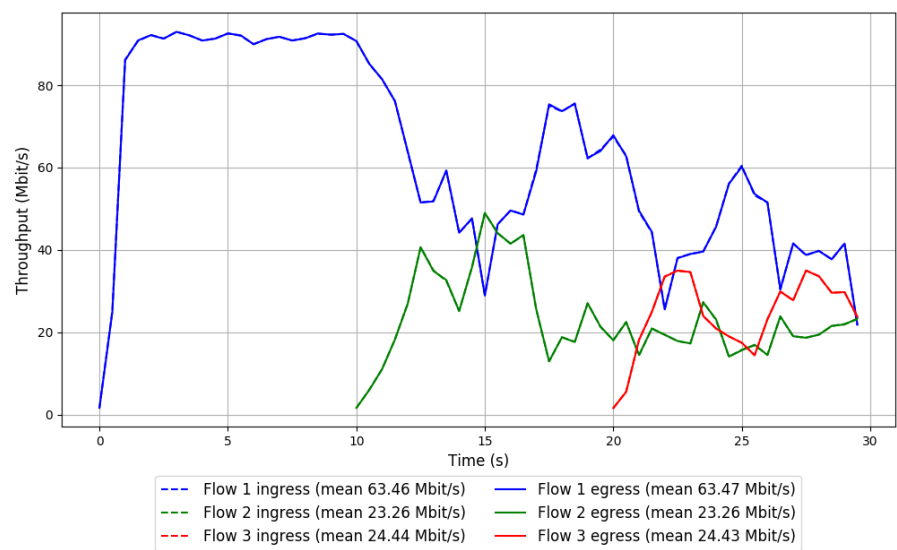


Run 8: Statistics of Vivace-latency

Start at: 2018-02-03 04:09:10
End at: 2018-02-03 04:09:40
Local clock offset: 0.019 ms
Remote clock offset: 2.082 ms

```
# Below is generated by plot.py at 2018-02-03 05:49:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 3.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 3.270 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.26 Mbit/s
95th percentile per-packet one-way delay: 4.731 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 3.635 ms
Loss rate: 0.00%
```

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-03 04:29:44

End at: 2018-02-03 04:30:14

Local clock offset: 0.033 ms

Remote clock offset: 2.148 ms

Below is generated by plot.py at 2018-02-03 05:49:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.05 Mbit/s

95th percentile per-packet one-way delay: 2.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.54 Mbit/s

95th percentile per-packet one-way delay: 2.688 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.80 Mbit/s

95th percentile per-packet one-way delay: 3.476 ms

Loss rate: 0.00%

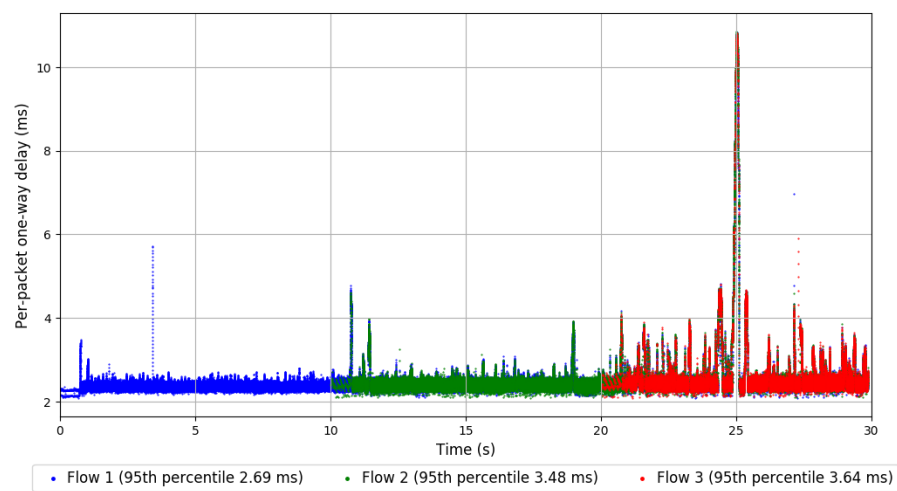
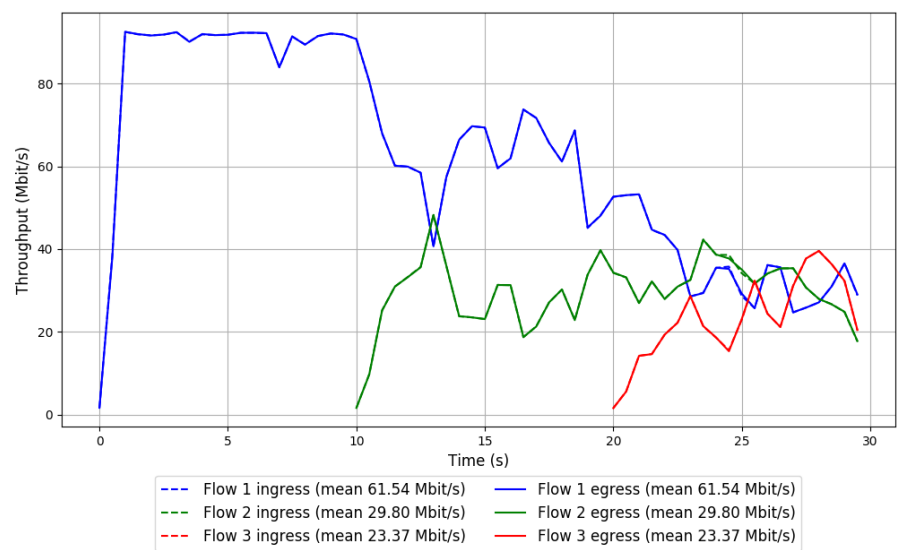
-- Flow 3:

Average throughput: 23.37 Mbit/s

95th percentile per-packet one-way delay: 3.642 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-03 04:50:18

End at: 2018-02-03 04:50:48

Local clock offset: 0.038 ms

Remote clock offset: 2.097 ms

Below is generated by plot.py at 2018-02-03 05:49:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 2.838 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.78 Mbit/s

95th percentile per-packet one-way delay: 2.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.68 Mbit/s

95th percentile per-packet one-way delay: 2.866 ms

Loss rate: 0.00%

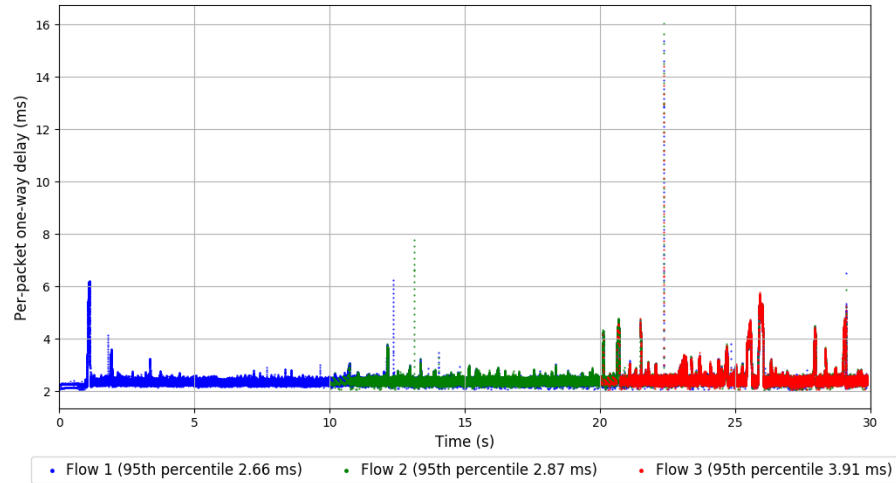
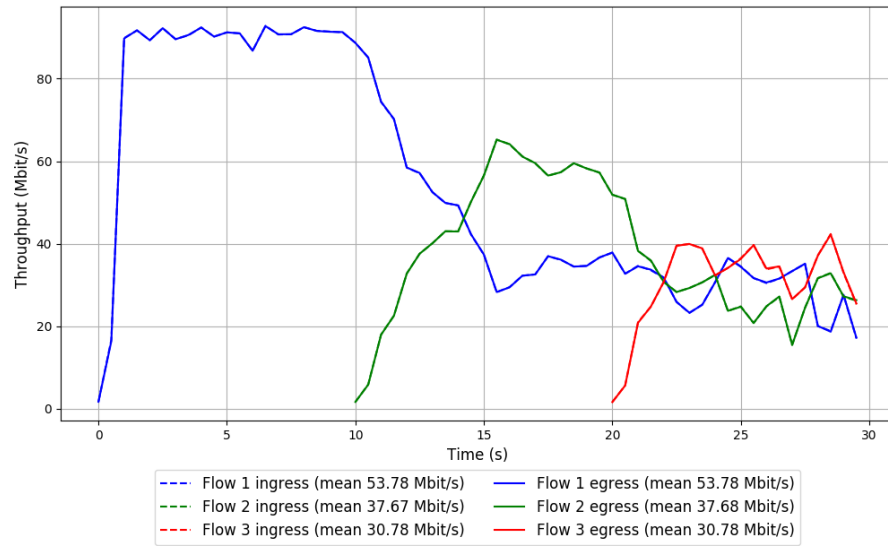
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 3.912 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

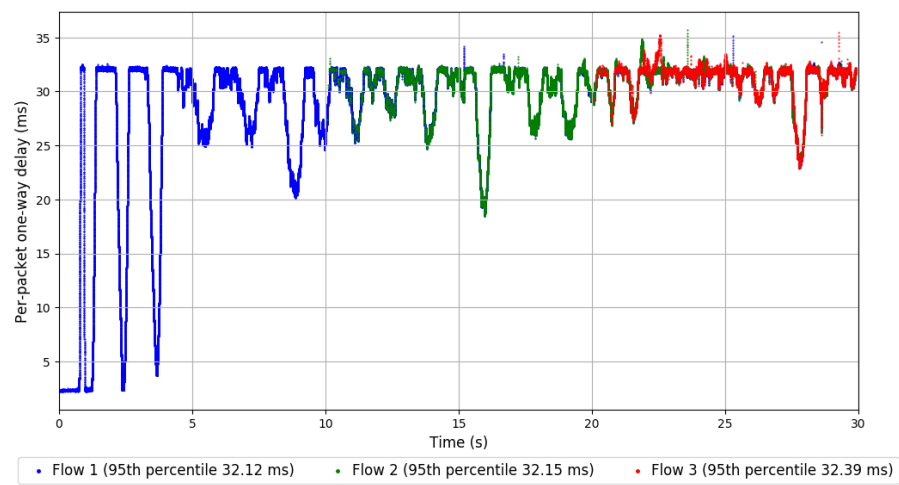
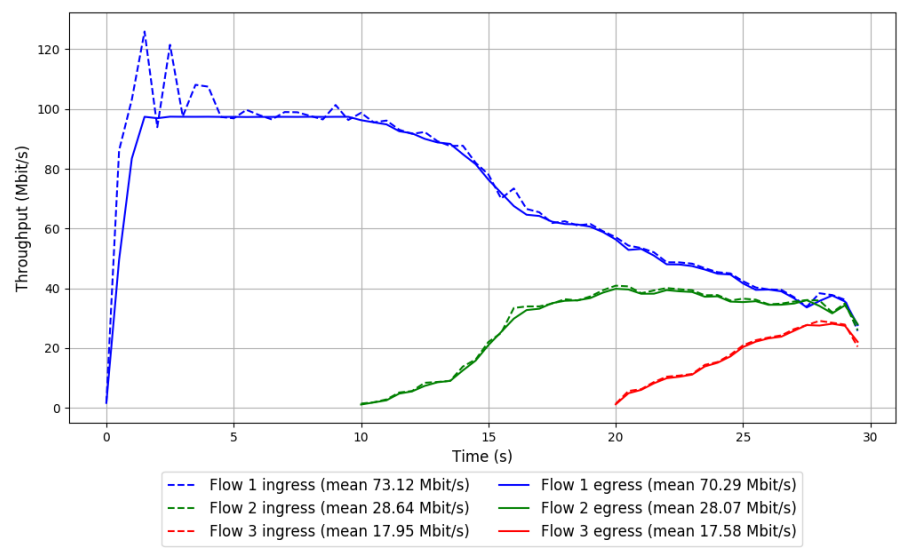


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-03 01:39:31
End at: 2018-02-03 01:40:01
Local clock offset: 0.105 ms
Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2018-02-03 05:50:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 32.127 ms
Loss rate: 3.31%
-- Flow 1:
Average throughput: 70.29 Mbit/s
95th percentile per-packet one-way delay: 32.117 ms
Loss rate: 3.77%
-- Flow 2:
Average throughput: 28.07 Mbit/s
95th percentile per-packet one-way delay: 32.146 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 32.386 ms
Loss rate: 2.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-03 02:00:05

End at: 2018-02-03 02:00:35

Local clock offset: 0.026 ms

Remote clock offset: -19.614 ms

Below is generated by plot.py at 2018-02-03 05:50:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 12.010 ms

Loss rate: 2.65%

-- Flow 1:

Average throughput: 79.89 Mbit/s

95th percentile per-packet one-way delay: 12.000 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 17.37 Mbit/s

95th percentile per-packet one-way delay: 12.642 ms

Loss rate: 2.34%

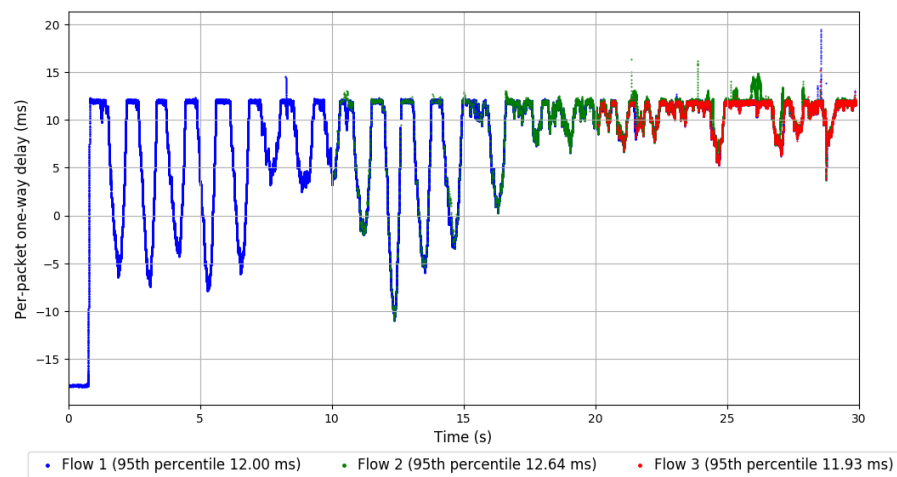
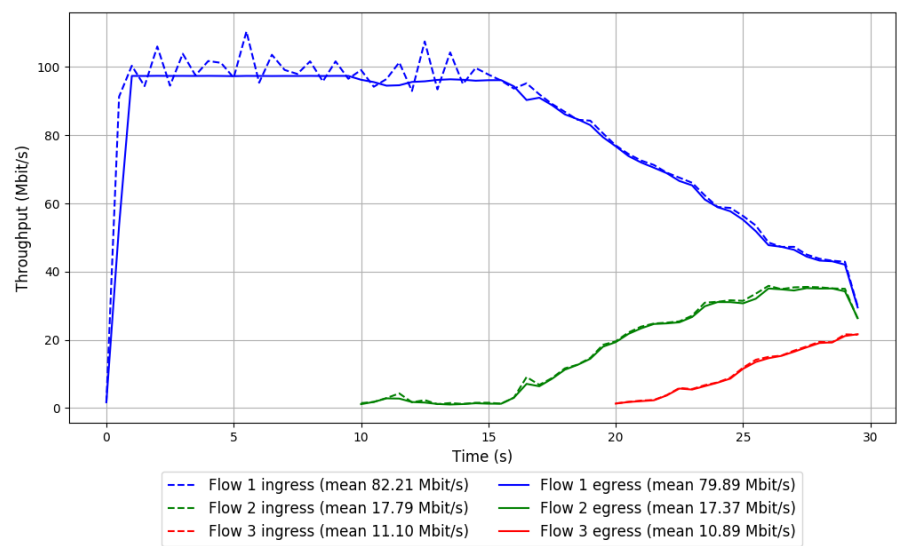
-- Flow 3:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 11.928 ms

Loss rate: 1.89%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-03 02:20:40

End at: 2018-02-03 02:21:10

Local clock offset: 0.019 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-02-03 05:50:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 32.012 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 32.021 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 31.975 ms

Loss rate: 1.85%

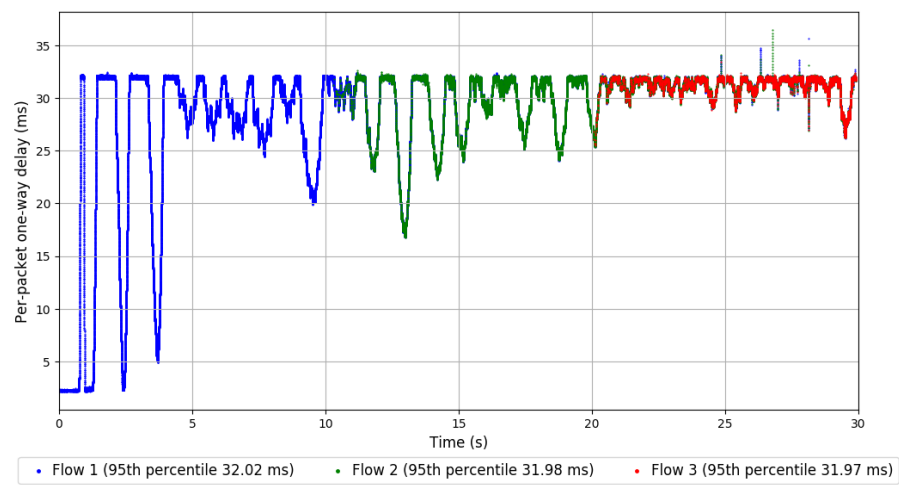
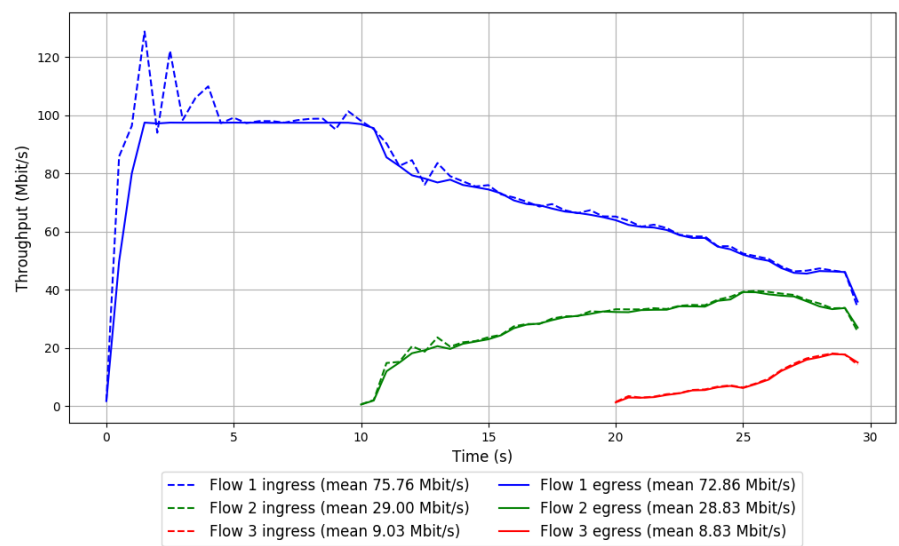
-- Flow 3:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 31.972 ms

Loss rate: 2.16%

Run 3: Report of Vivace-loss — Data Link

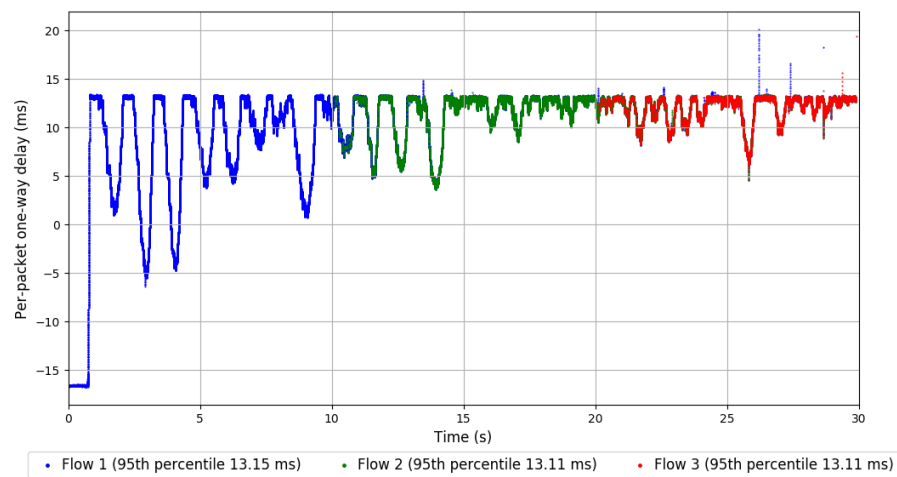
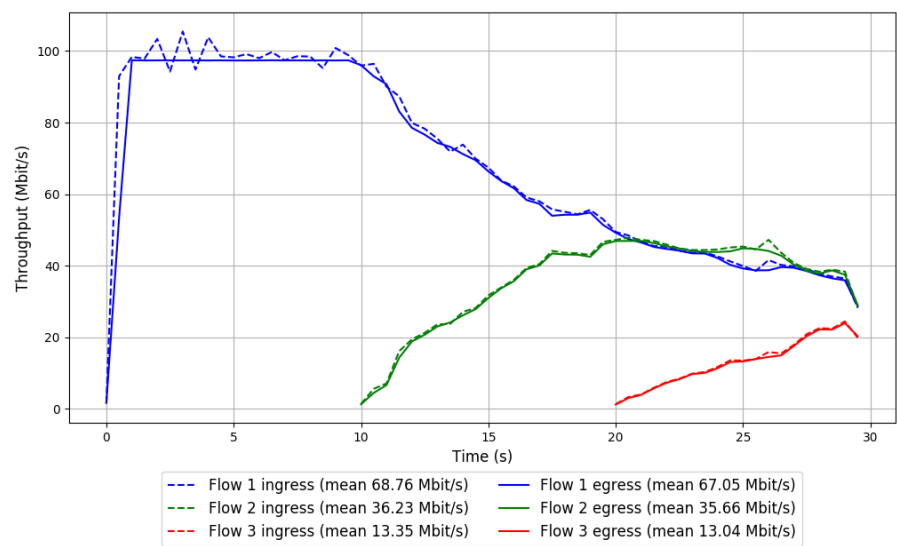


Run 4: Statistics of Vivace-loss

Start at: 2018-02-03 02:41:13
End at: 2018-02-03 02:41:43
Local clock offset: -0.009 ms
Remote clock offset: -18.956 ms

Below is generated by plot.py at 2018-02-03 05:50:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 13.144 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 67.05 Mbit/s
95th percentile per-packet one-way delay: 13.155 ms
Loss rate: 2.40%
-- Flow 2:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 13.110 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 13.108 ms
Loss rate: 2.24%

Run 4: Report of Vivace-loss — Data Link

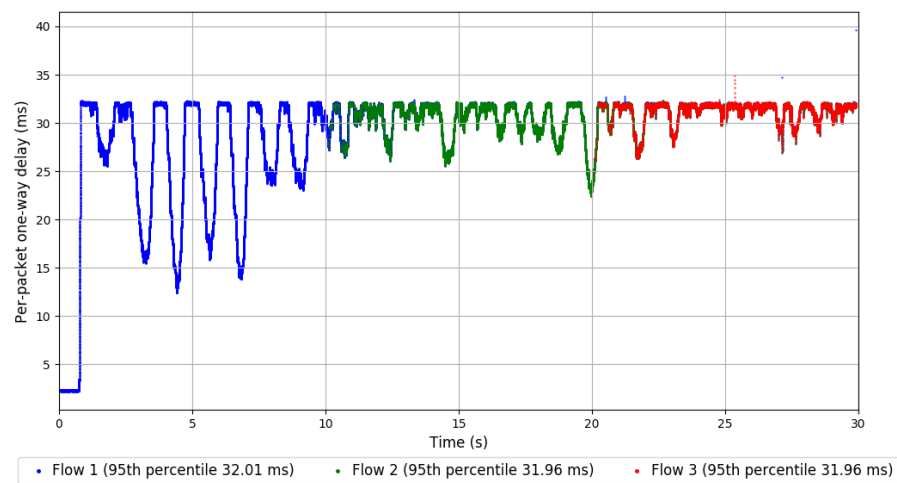
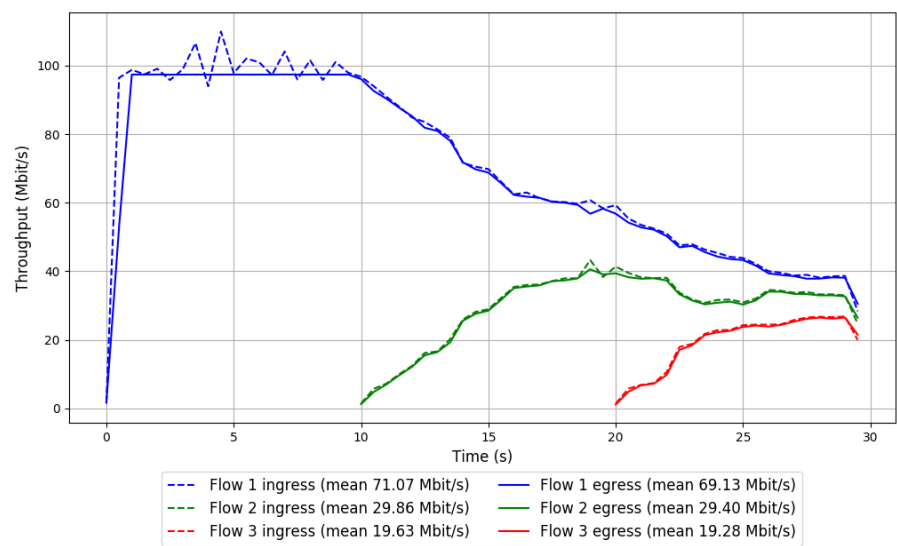


Run 5: Statistics of Vivace-loss

Start at: 2018-02-03 03:01:49
End at: 2018-02-03 03:02:19
Local clock offset: -0.051 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-02-03 05:50:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 32.002 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 69.13 Mbit/s
95th percentile per-packet one-way delay: 32.014 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 29.40 Mbit/s
95th percentile per-packet one-way delay: 31.956 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 31.960 ms
Loss rate: 1.72%

Run 5: Report of Vivace-loss — Data Link

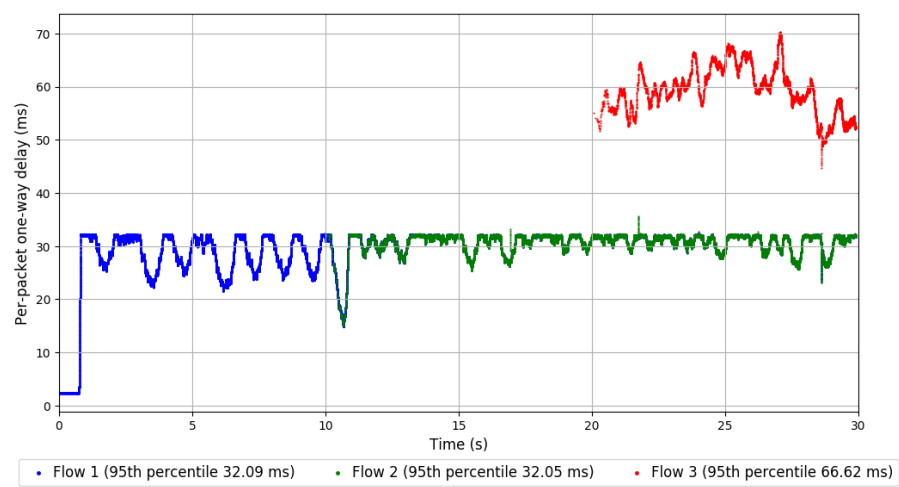
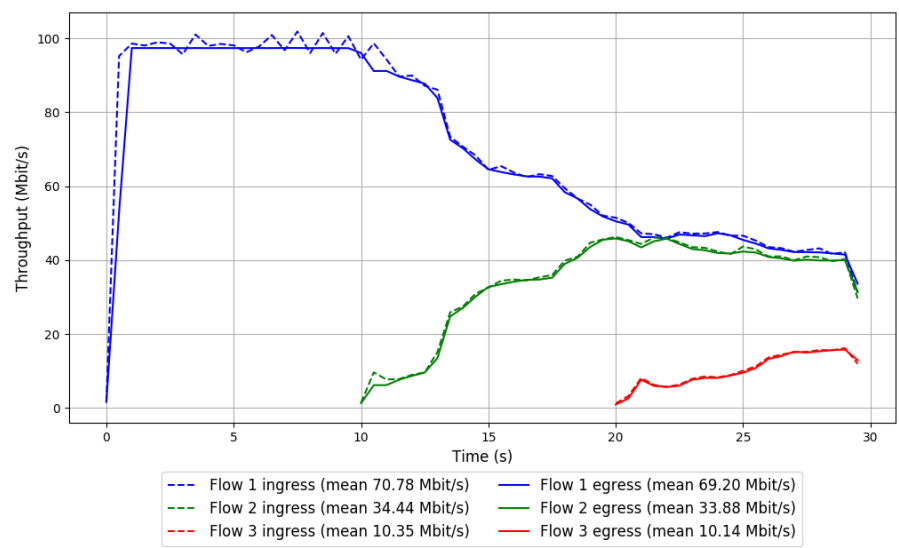


Run 6: Statistics of Vivace-loss

Start at: 2018-02-03 03:22:21
End at: 2018-02-03 03:22:51
Local clock offset: -0.123 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-02-03 05:50:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 32.149 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 32.091 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 32.053 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 10.14 Mbit/s
95th percentile per-packet one-way delay: 66.616 ms
Loss rate: 2.22%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-03 03:42:52

End at: 2018-02-03 03:43:22

Local clock offset: -0.093 ms

Remote clock offset: 1.333 ms

Below is generated by plot.py at 2018-02-03 05:51:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 52.771 ms

Loss rate: 3.36%

-- Flow 1:

Average throughput: 58.93 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 3.98%

-- Flow 2:

Average throughput: 47.74 Mbit/s

95th percentile per-packet one-way delay: 32.083 ms

Loss rate: 2.28%

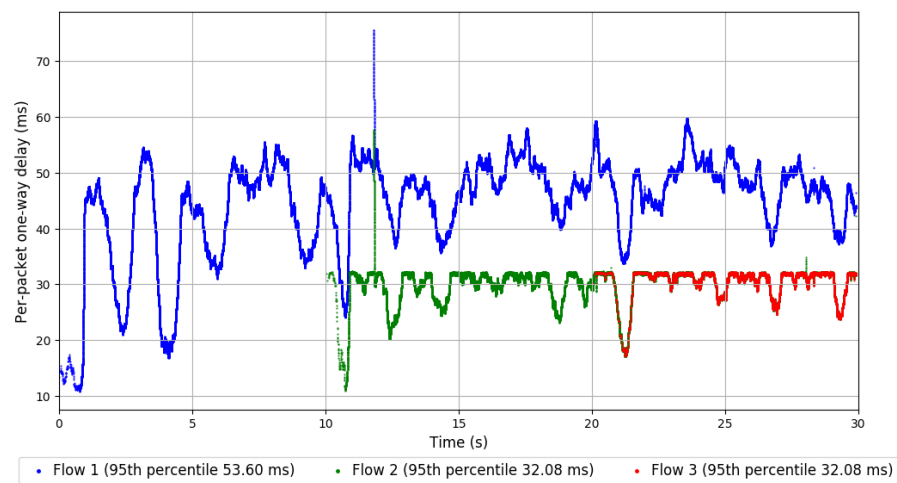
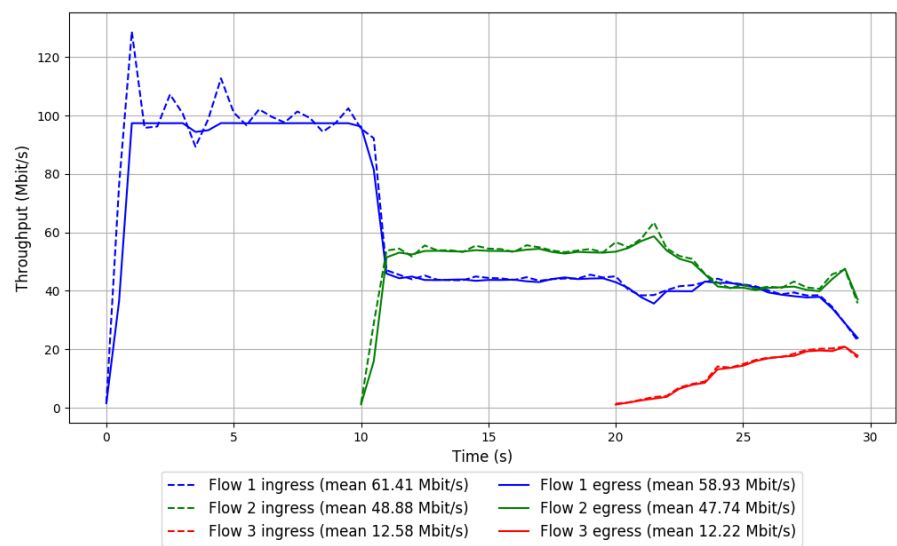
-- Flow 3:

Average throughput: 12.22 Mbit/s

95th percentile per-packet one-way delay: 32.078 ms

Loss rate: 2.78%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-03 04:03:25

End at: 2018-02-03 04:03:55

Local clock offset: -0.023 ms

Remote clock offset: 2.076 ms

Below is generated by plot.py at 2018-02-03 05:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 32.090 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 32.101 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 32.041 ms

Loss rate: 1.61%

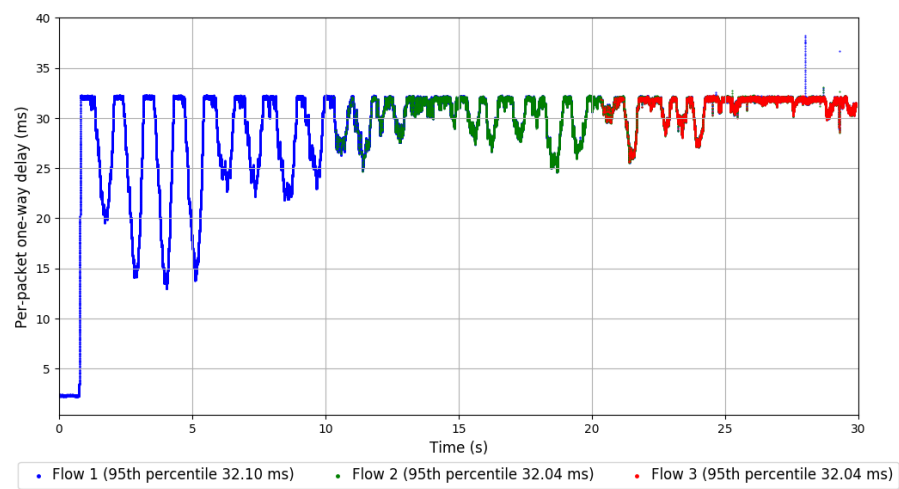
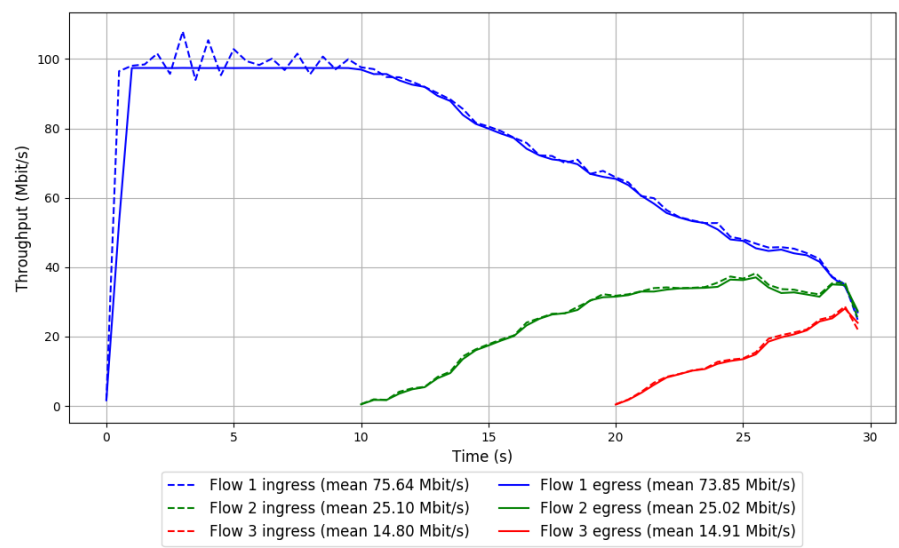
-- Flow 3:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 32.043 ms

Loss rate: 1.87%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-03 04:23:58

End at: 2018-02-03 04:24:28

Local clock offset: -0.022 ms

Remote clock offset: 2.1 ms

Below is generated by plot.py at 2018-02-03 05:51:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 32.034 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 70.08 Mbit/s

95th percentile per-packet one-way delay: 32.041 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 29.19 Mbit/s

95th percentile per-packet one-way delay: 32.002 ms

Loss rate: 2.01%

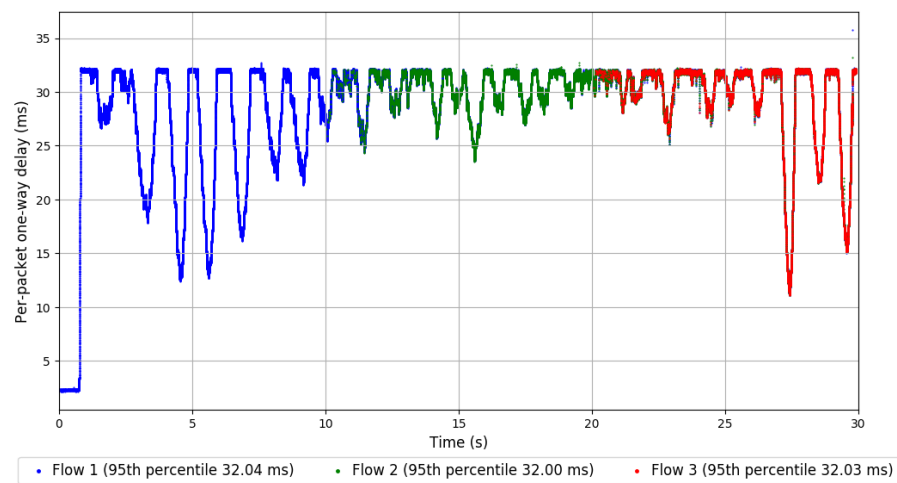
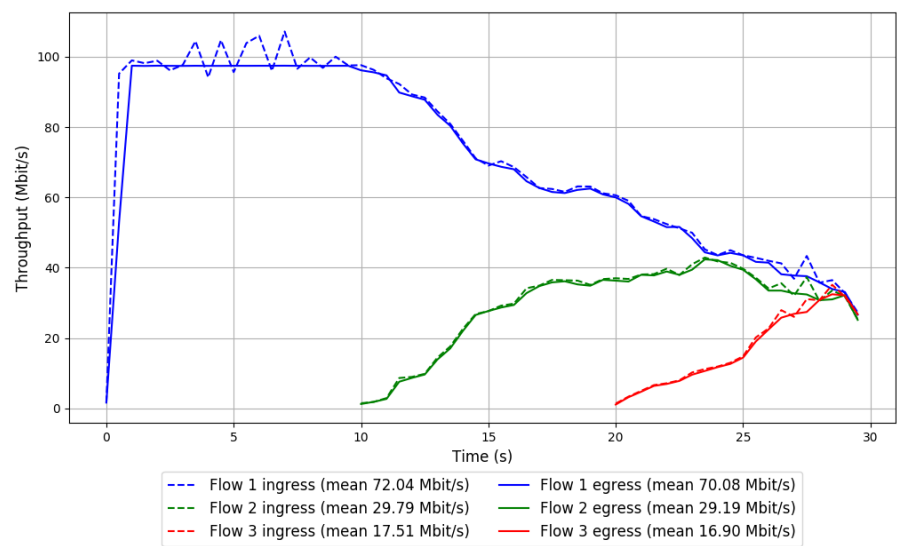
-- Flow 3:

Average throughput: 16.90 Mbit/s

95th percentile per-packet one-way delay: 32.034 ms

Loss rate: 3.48%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-03 04:44:32

End at: 2018-02-03 04:45:02

Local clock offset: 0.012 ms

Remote clock offset: 2.188 ms

Below is generated by plot.py at 2018-02-03 05:51:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 32.118 ms

Loss rate: 3.61%

-- Flow 1:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 32.131 ms

Loss rate: 4.25%

-- Flow 2:

Average throughput: 29.52 Mbit/s

95th percentile per-packet one-way delay: 32.055 ms

Loss rate: 1.67%

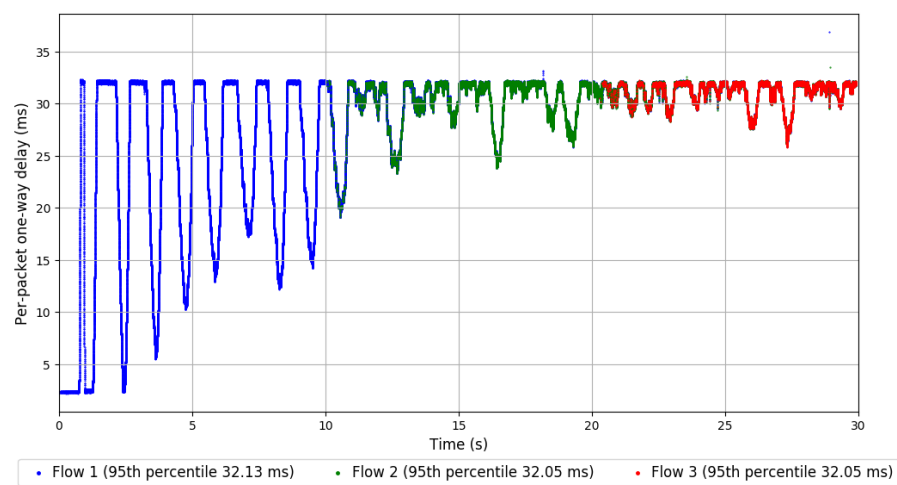
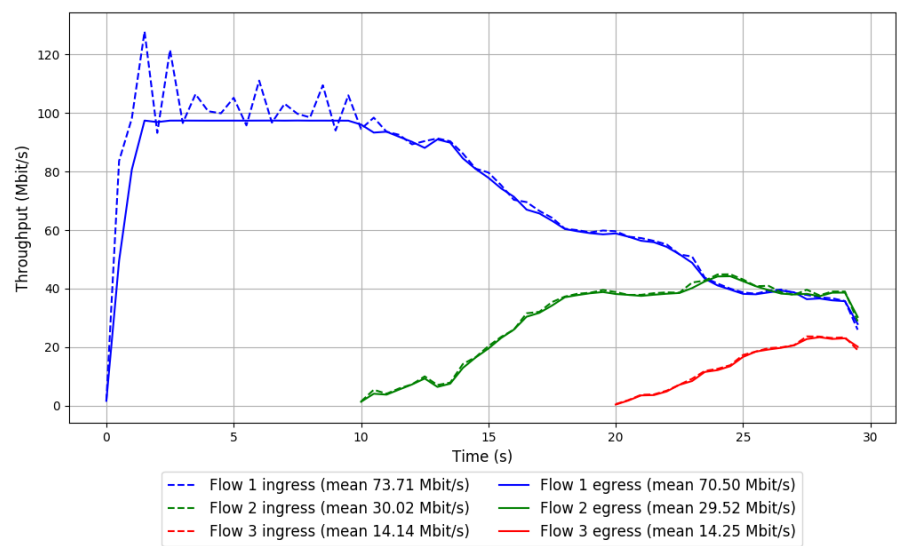
-- Flow 3:

Average throughput: 14.25 Mbit/s

95th percentile per-packet one-way delay: 32.049 ms

Loss rate: 1.78%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-03 01:38:22

End at: 2018-02-03 01:38:52

Local clock offset: 0.136 ms

Remote clock offset: 0.785 ms

Below is generated by plot.py at 2018-02-03 05:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.69 Mbit/s

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

Loss rate: 0.31%

-- Flow 1:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 31.326 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 44.14 Mbit/s

95th percentile per-packet one-way delay: 31.837 ms

Loss rate: 0.29%

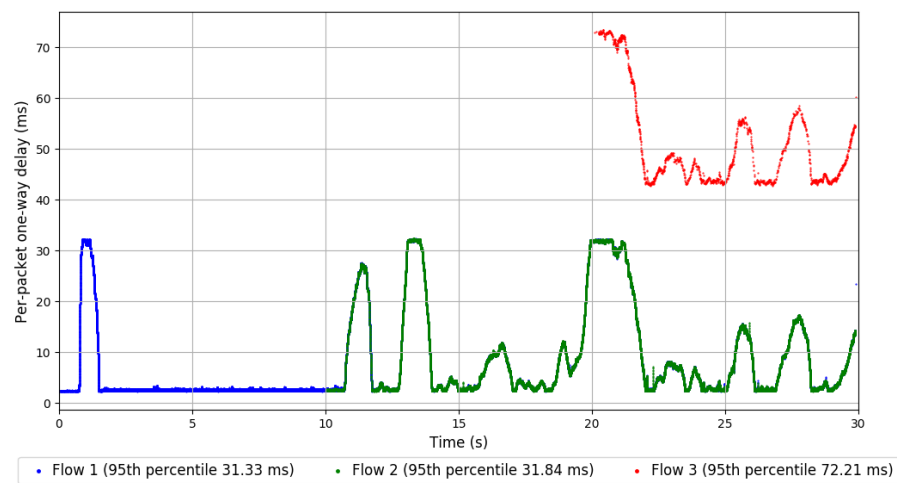
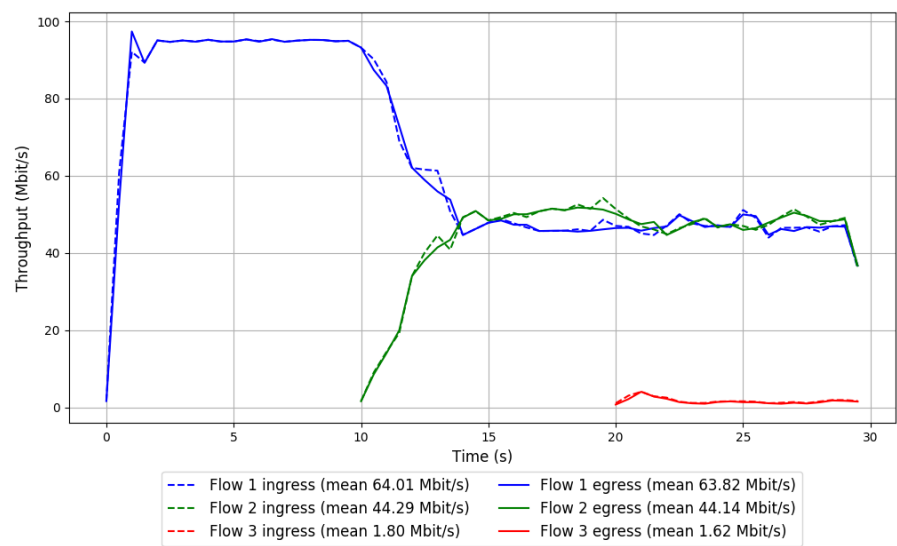
-- Flow 3:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 72.209 ms

Loss rate: 10.50%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-03 01:58:55

End at: 2018-02-03 01:59:25

Local clock offset: 0.051 ms

Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-02-03 05:52:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 31.865 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 59.51 Mbit/s

95th percentile per-packet one-way delay: 31.802 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 31.892 ms

Loss rate: 0.54%

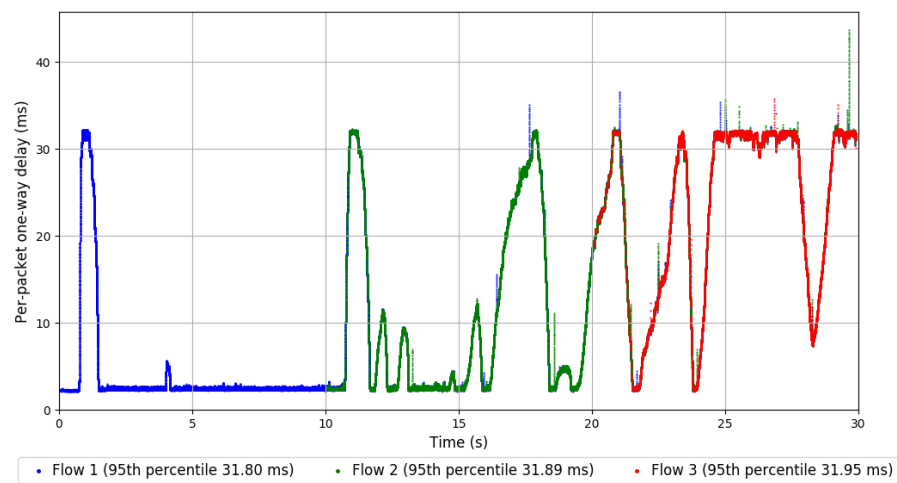
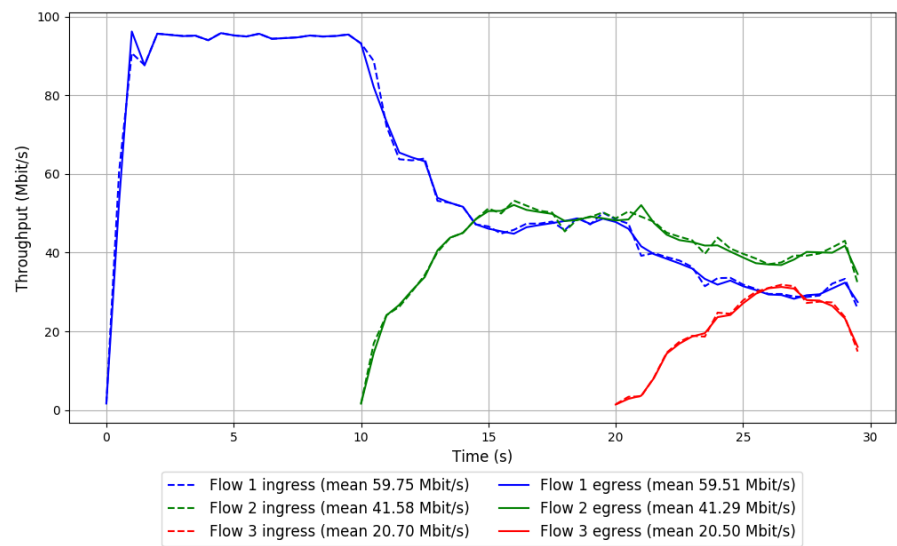
-- Flow 3:

Average throughput: 20.50 Mbit/s

95th percentile per-packet one-way delay: 31.945 ms

Loss rate: 0.88%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-03 02:19:30

End at: 2018-02-03 02:20:00

Local clock offset: 0.002 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-02-03 05:52:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 31.983 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 61.39 Mbit/s

95th percentile per-packet one-way delay: 31.959 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 36.81 Mbit/s

95th percentile per-packet one-way delay: 32.007 ms

Loss rate: 1.05%

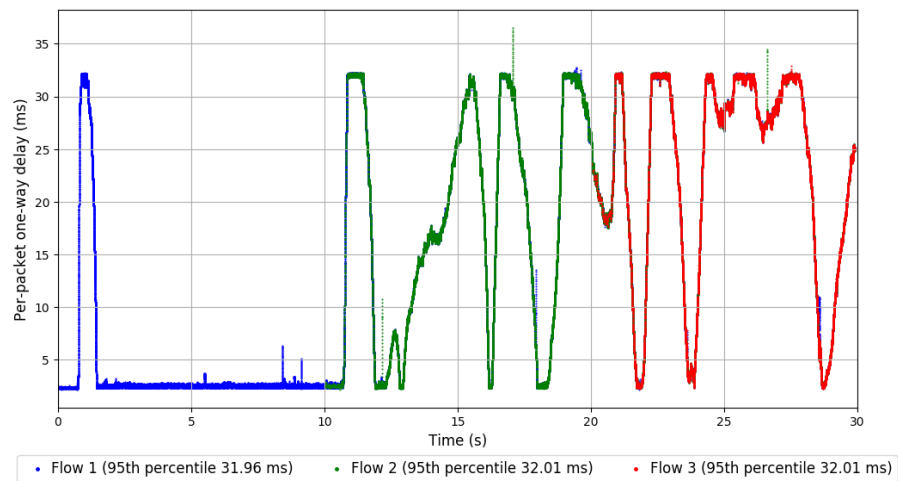
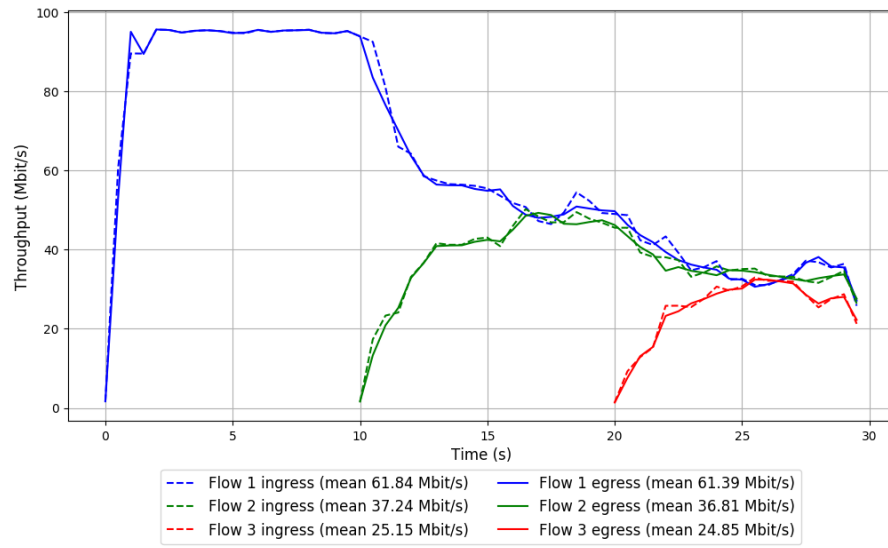
-- Flow 3:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 32.012 ms

Loss rate: 1.18%

Run 3: Report of Vivace-LTE — Data Link

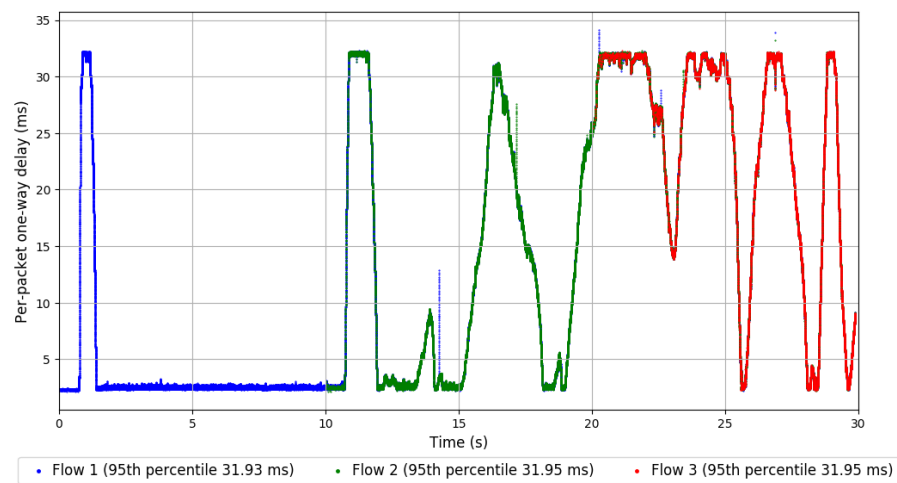
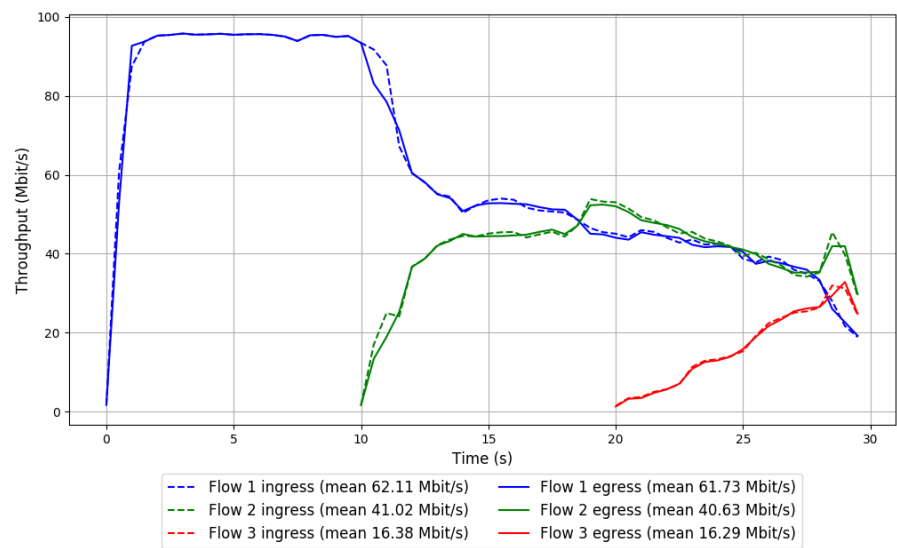


Run 4: Statistics of Vivace-LTE

Start at: 2018-02-03 02:40:03
End at: 2018-02-03 02:40:33
Local clock offset: -0.04 ms
Remote clock offset: -0.045 ms

```
# Below is generated by plot.py at 2018-02-03 05:52:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.11 Mbit/s
95th percentile per-packet one-way delay: 31.941 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 61.73 Mbit/s
95th percentile per-packet one-way delay: 31.935 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 31.946 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 16.29 Mbit/s
95th percentile per-packet one-way delay: 31.951 ms
Loss rate: 0.70%
```

Run 4: Report of Vivace-LTE — Data Link

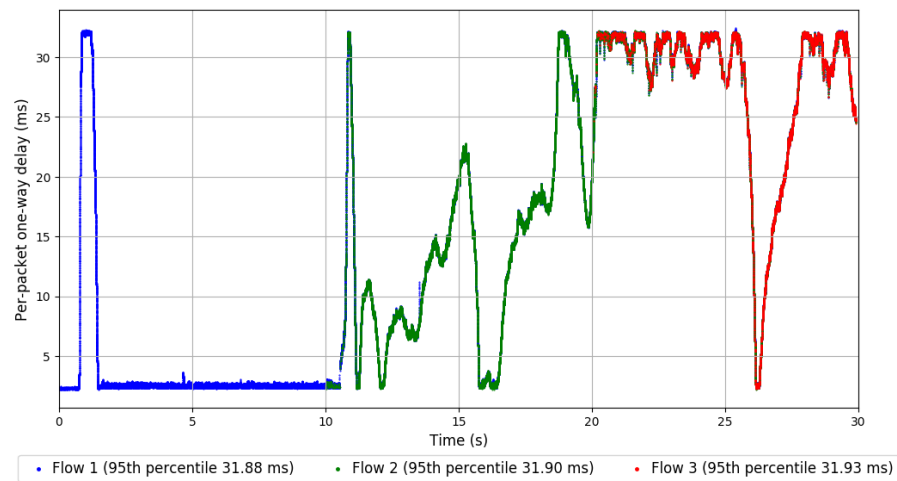
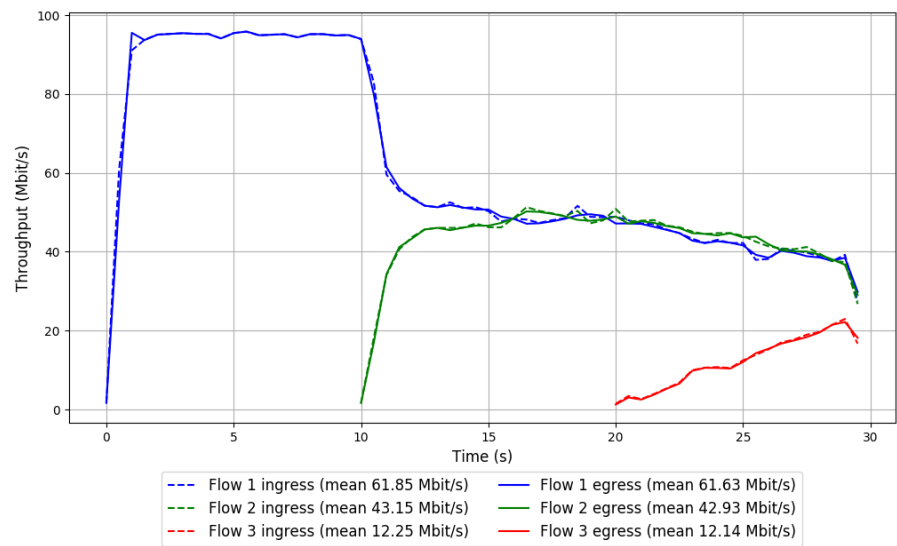


Run 5: Statistics of Vivace-LTE

Start at: 2018-02-03 03:00:39
End at: 2018-02-03 03:01:09
Local clock offset: -0.112 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-02-03 05:52:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 31.892 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 61.63 Mbit/s
95th percentile per-packet one-way delay: 31.877 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 31.903 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 31.935 ms
Loss rate: 0.91%

Run 5: Report of Vivace-LTE — Data Link

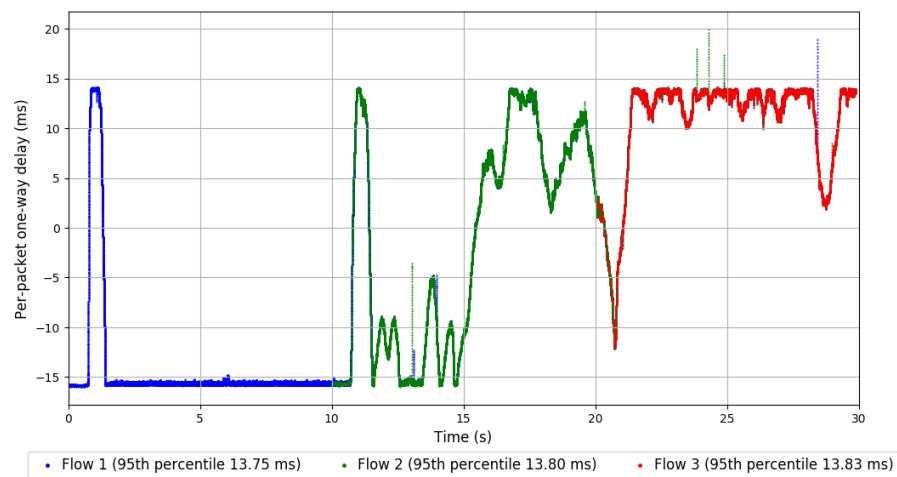
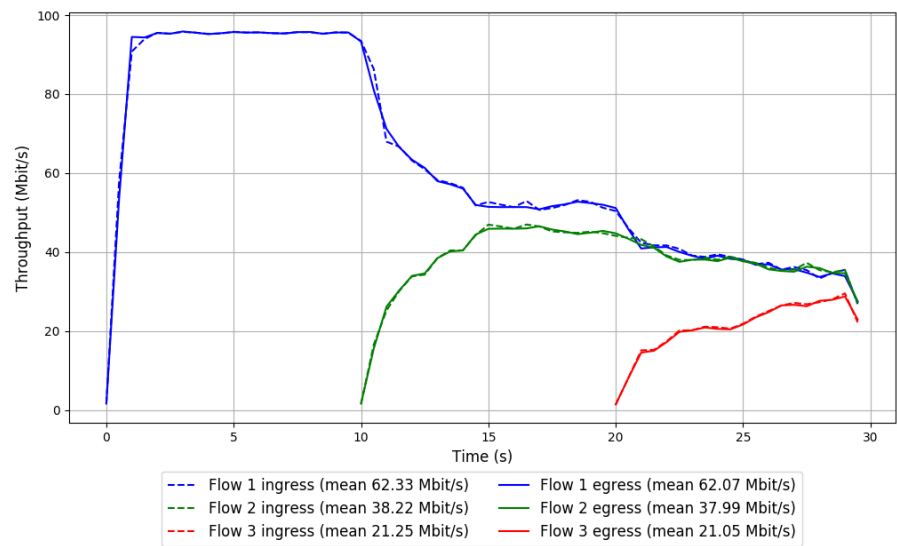


Run 6: Statistics of Vivace-LTE

Start at: 2018-02-03 03:21:12
End at: 2018-02-03 03:21:42
Local clock offset: -0.055 ms
Remote clock offset: -18.362 ms

Below is generated by plot.py at 2018-02-03 05:52:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 13.779 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 62.07 Mbit/s
95th percentile per-packet one-way delay: 13.748 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 13.796 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 13.833 ms
Loss rate: 0.85%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-03 03:41:42

End at: 2018-02-03 03:42:12

Local clock offset: -0.031 ms

Remote clock offset: 1.226 ms

Below is generated by plot.py at 2018-02-03 05:52:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 32.027 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 61.77 Mbit/s

95th percentile per-packet one-way delay: 31.766 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 41.17 Mbit/s

95th percentile per-packet one-way delay: 31.833 ms

Loss rate: 0.43%

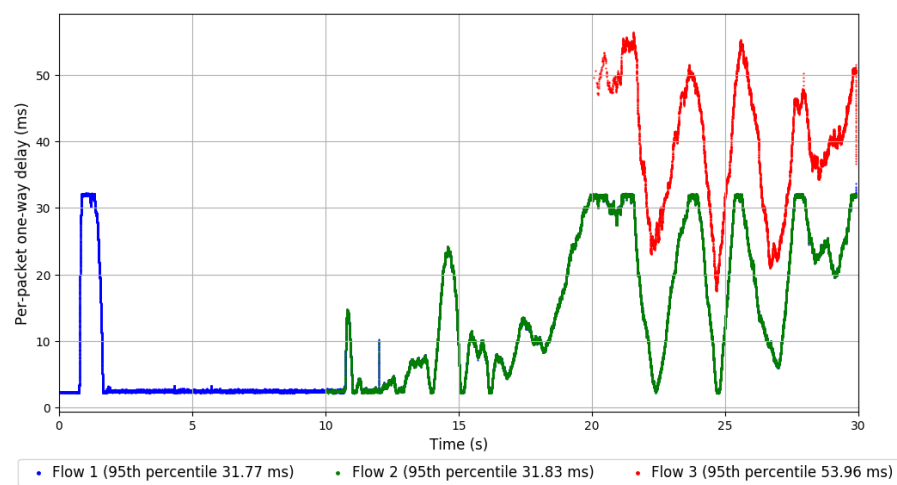
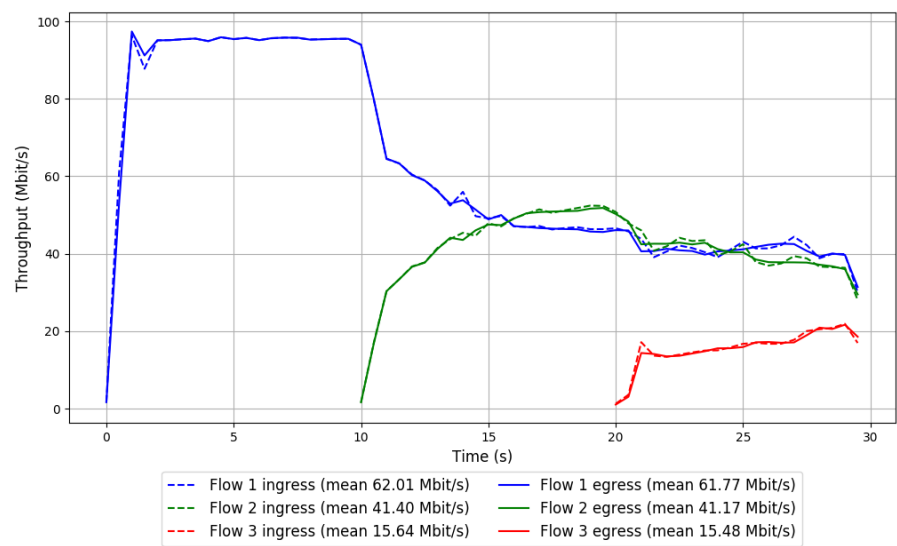
-- Flow 3:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 53.960 ms

Loss rate: 1.19%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-03 04:02:15

End at: 2018-02-03 04:02:45

Local clock offset: -0.017 ms

Remote clock offset: 2.059 ms

Below is generated by plot.py at 2018-02-03 05:52:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 32.002 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 62.08 Mbit/s

95th percentile per-packet one-way delay: 31.891 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 31.924 ms

Loss rate: 0.43%

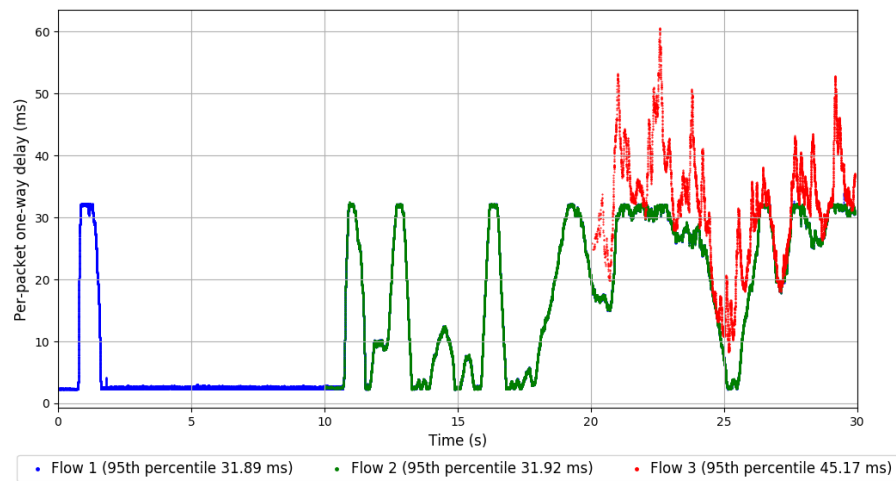
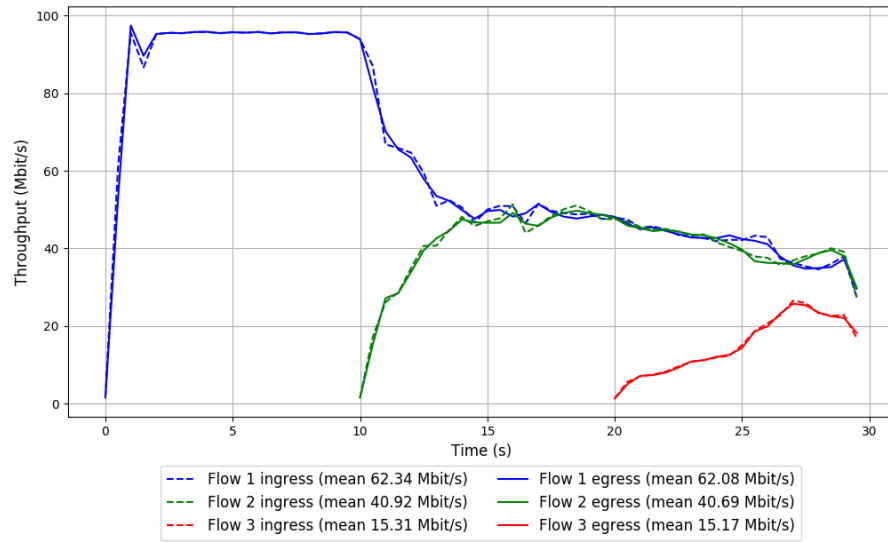
-- Flow 3:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 45.174 ms

Loss rate: 0.84%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-03 04:22:49

End at: 2018-02-03 04:23:19

Local clock offset: 0.001 ms

Remote clock offset: 2.175 ms

Below is generated by plot.py at 2018-02-03 05:53:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.10 Mbit/s

95th percentile per-packet one-way delay: 31.972 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 61.94 Mbit/s

95th percentile per-packet one-way delay: 31.905 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 39.43 Mbit/s

95th percentile per-packet one-way delay: 32.005 ms

Loss rate: 1.04%

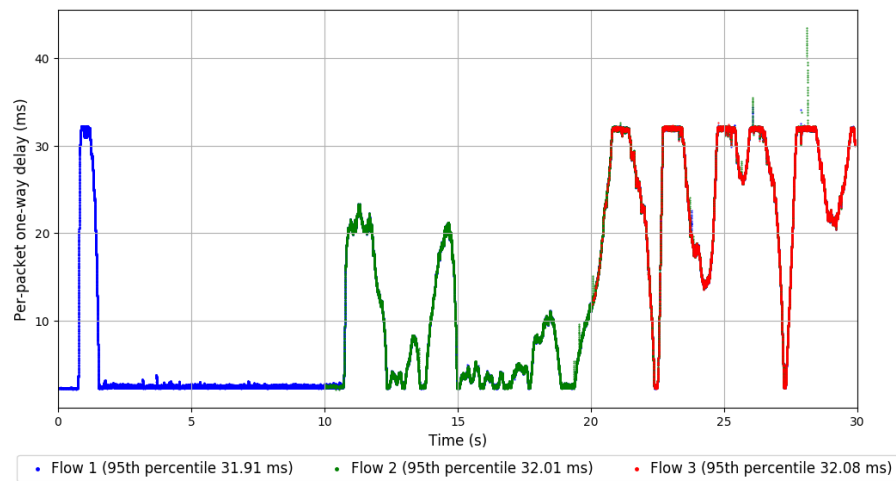
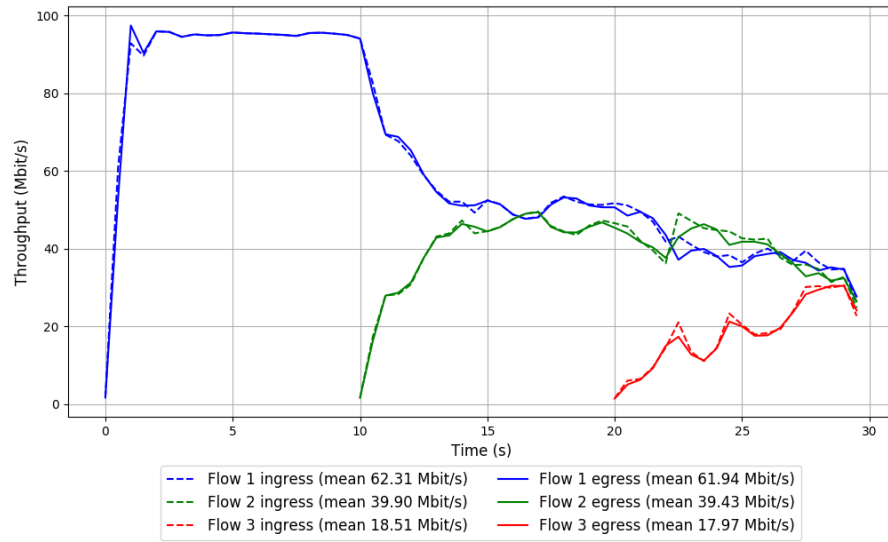
-- Flow 3:

Average throughput: 17.97 Mbit/s

95th percentile per-packet one-way delay: 32.075 ms

Loss rate: 2.72%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-03 04:43:23

End at: 2018-02-03 04:43:53

Local clock offset: -0.023 ms

Remote clock offset: 2.169 ms

Below is generated by plot.py at 2018-02-03 05:53:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 31.963 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 63.54 Mbit/s

95th percentile per-packet one-way delay: 31.927 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 31.974 ms

Loss rate: 0.52%

-- Flow 3:

Average throughput: 19.77 Mbit/s

95th percentile per-packet one-way delay: 32.046 ms

Loss rate: 1.34%

Run 10: Report of Vivace-LTE — Data Link

