

Pantheon Report

Generated at 2018-02-01 05:35:33 (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).

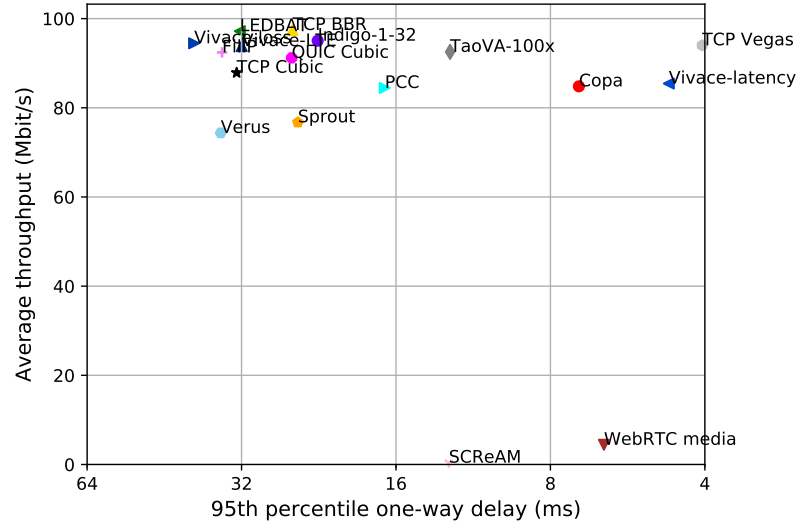
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

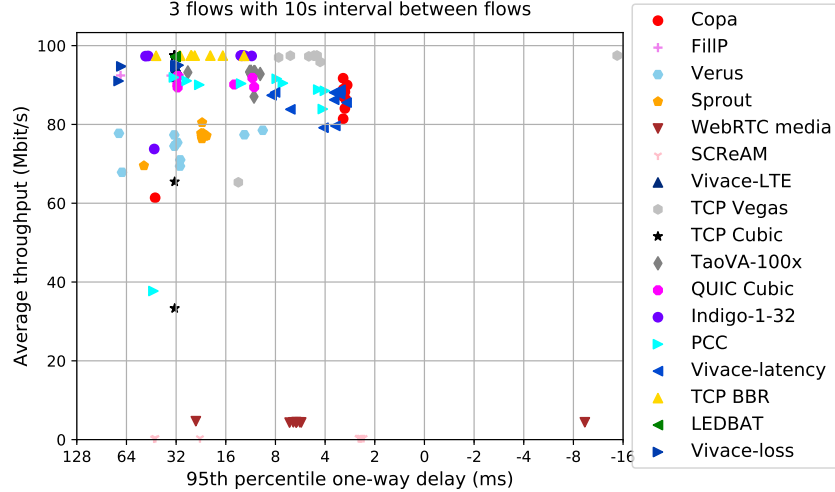
Git summary:

```
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	64.37	34.68	30.04	22.23	22.84	30.49	0.03	0.03	0.65
TCP Cubic	10	52.10	35.63	36.23	40.54	36.69	32.78	1.34	1.10	0.15
LEDBAT	10	63.66	38.39	24.14	32.20	32.39	40.36	0.03	0.06	0.48
PCC	10	67.04	17.01	18.49	11.22	20.39	17.44	0.03	1.15	0.15
QUIC Cubic	10	58.39	36.72	25.89	25.47	25.60	30.12	0.12	0.20	1.17
SCReAM	10	0.21	0.21	0.21	4.50	6.42	4.70	0.84	0.23	0.16
WebRTC media	10	2.34	1.52	0.56	1.60	6.55	3.99	0.01	0.08	0.00
Sprout	10	42.51	35.54	32.04	20.48	25.38	23.66	0.00	0.47	0.00
TaoVA-100x	10	54.98	36.16	40.68	10.43	11.90	16.70	0.02	0.06	0.25
TCP Vegas	10	46.02	43.69	56.93	8.42	4.78	2.84	0.53	0.00	0.00
Verus	10	42.94	34.24	26.54	29.73	32.00	28.95	10.76	13.80	25.79
Copa	10	47.02	40.15	33.29	6.95	3.05	3.15	0.89	0.00	0.00
FillP	10	53.99	39.61	36.51	30.88	31.20	35.03	10.75	20.83	26.73
Indigo-1-32	10	43.96	45.58	64.62	14.54	16.44	16.50	0.13	0.28	0.16
Vivace-latency	10	56.24	31.39	25.32	3.04	10.95	8.38	0.01	0.38	0.08
Vivace-loss	10	71.69	26.80	15.09	36.03	35.89	36.03	3.33	2.13	2.97
Vivace-LTE	10	61.78	39.32	17.96	31.91	31.94	44.03	0.44	0.70	2.36

Run 1: Statistics of TCP BBR

Start at: 2018-02-01 01:12:31

End at: 2018-02-01 01:13:01

Local clock offset: 0.55 ms

Remote clock offset: 1.301 ms

Below is generated by plot.py at 2018-02-01 05:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 26.050 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 25.522 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 43.17 Mbit/s

95th percentile per-packet one-way delay: 25.927 ms

Loss rate: 0.02%

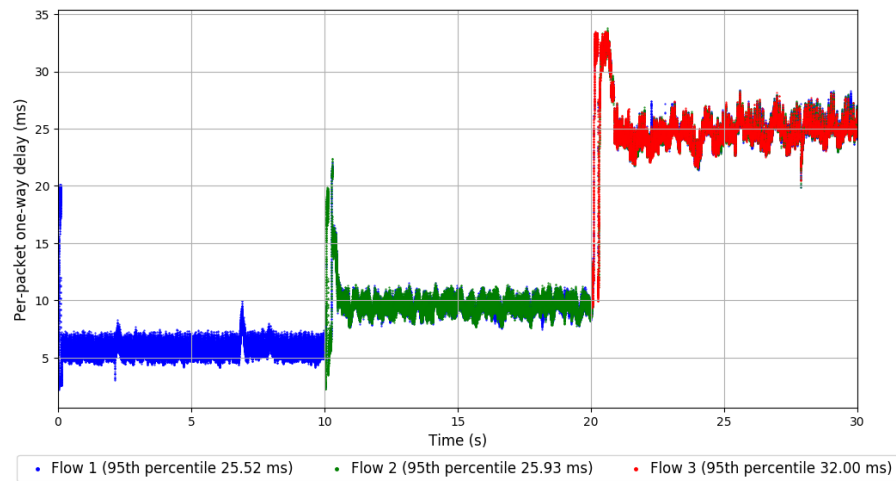
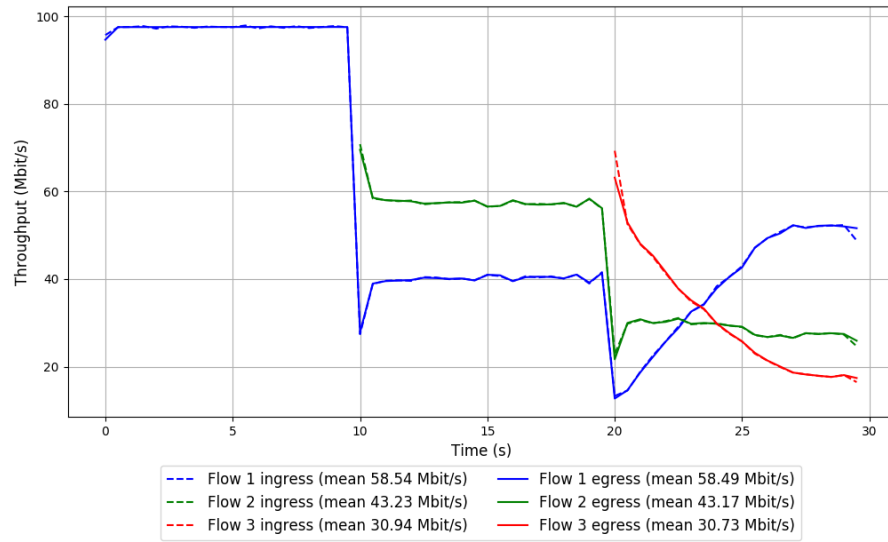
-- Flow 3:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 32.000 ms

Loss rate: 0.53%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-01 01:34:15

End at: 2018-02-01 01:34:45

Local clock offset: 0.625 ms

Remote clock offset: 1.668 ms

Below is generated by plot.py at 2018-02-01 05:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 16.680 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.80 Mbit/s

95th percentile per-packet one-way delay: 16.388 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 16.670 ms

Loss rate: 0.00%

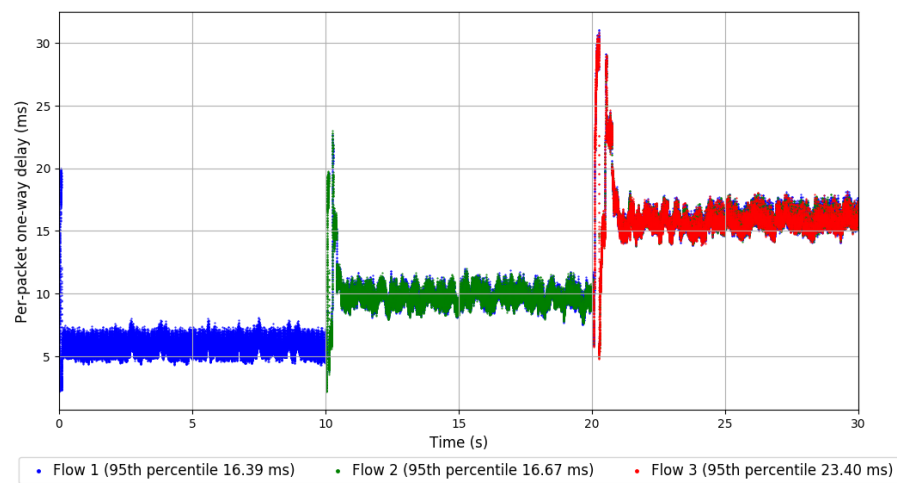
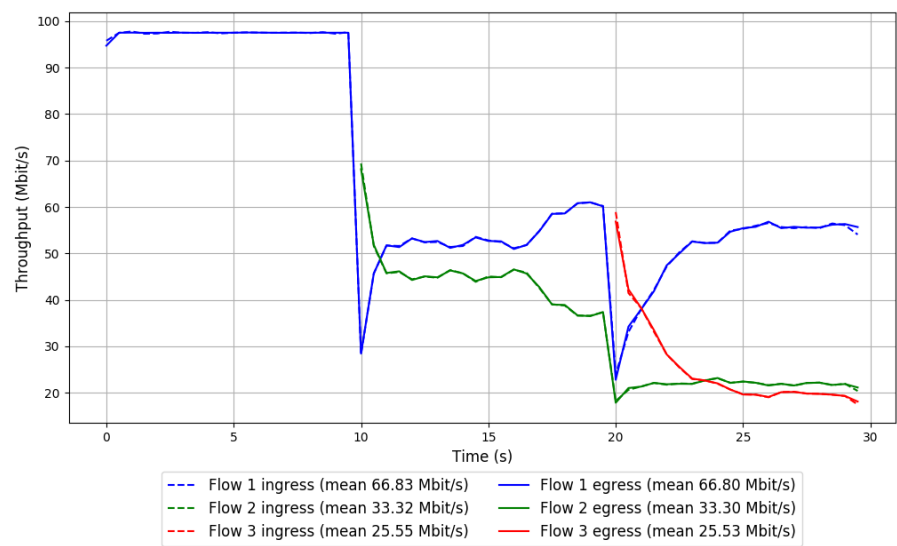
-- Flow 3:

Average throughput: 25.53 Mbit/s

95th percentile per-packet one-way delay: 23.401 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-01 01:56:06

End at: 2018-02-01 01:56:36

Local clock offset: 0.476 ms

Remote clock offset: 1.221 ms

Below is generated by plot.py at 2018-02-01 05:06:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 30.188 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 70.58 Mbit/s

95th percentile per-packet one-way delay: 29.617 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 28.12 Mbit/s

95th percentile per-packet one-way delay: 30.273 ms

Loss rate: 0.06%

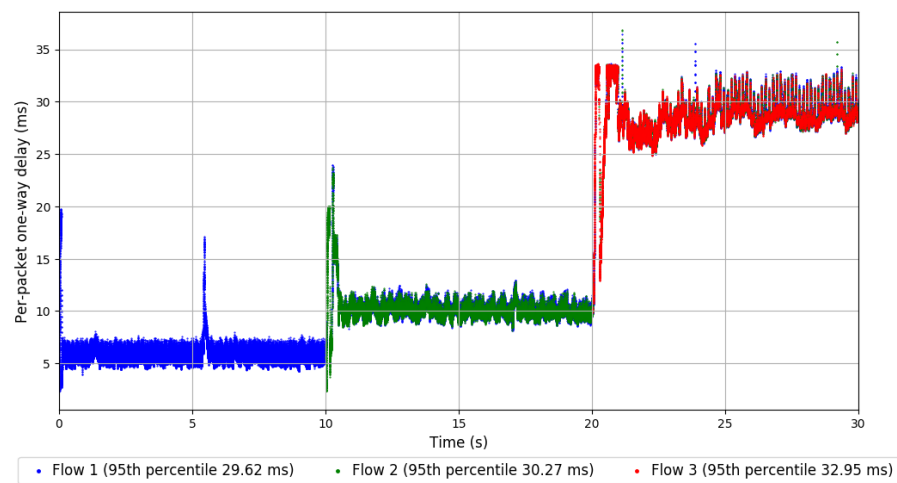
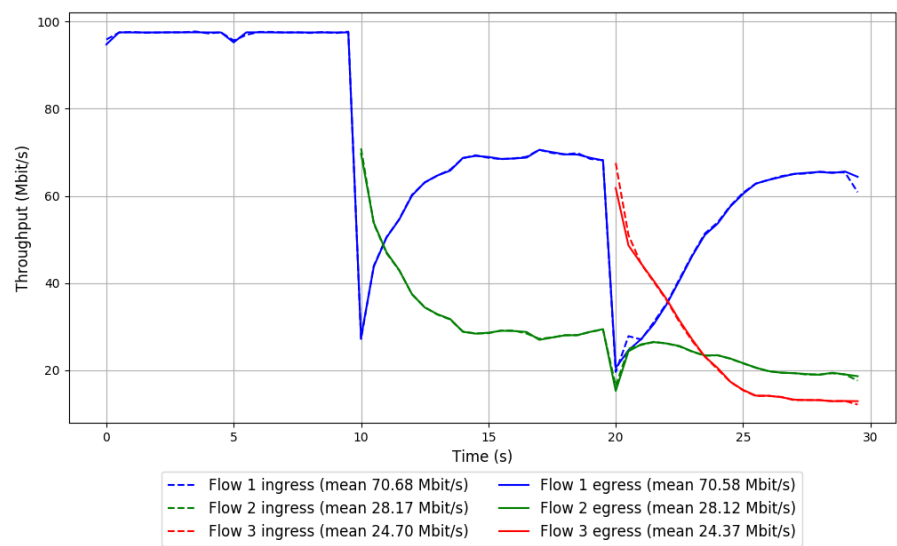
-- Flow 3:

Average throughput: 24.37 Mbit/s

95th percentile per-packet one-way delay: 32.949 ms

Loss rate: 1.14%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-01 02:17:46

End at: 2018-02-01 02:18:16

Local clock offset: 0.569 ms

Remote clock offset: 0.98 ms

Below is generated by plot.py at 2018-02-01 05:06:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 25.909 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 25.605 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 29.31 Mbit/s

95th percentile per-packet one-way delay: 25.588 ms

Loss rate: 0.01%

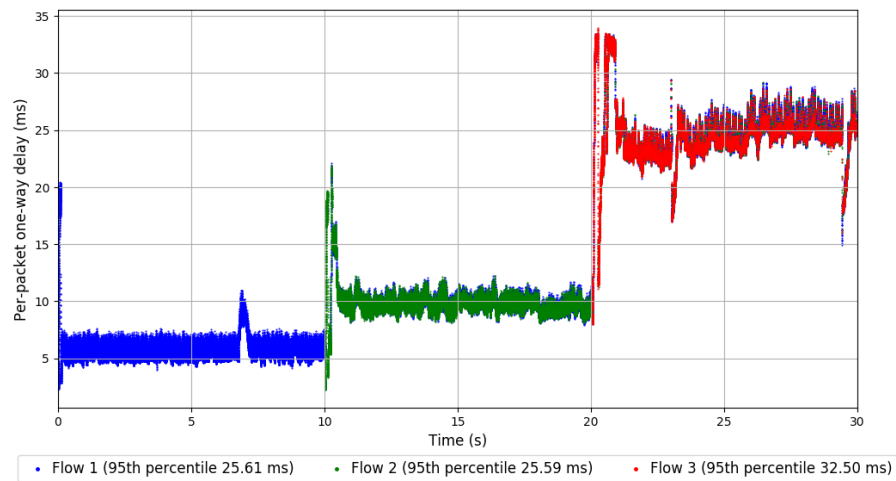
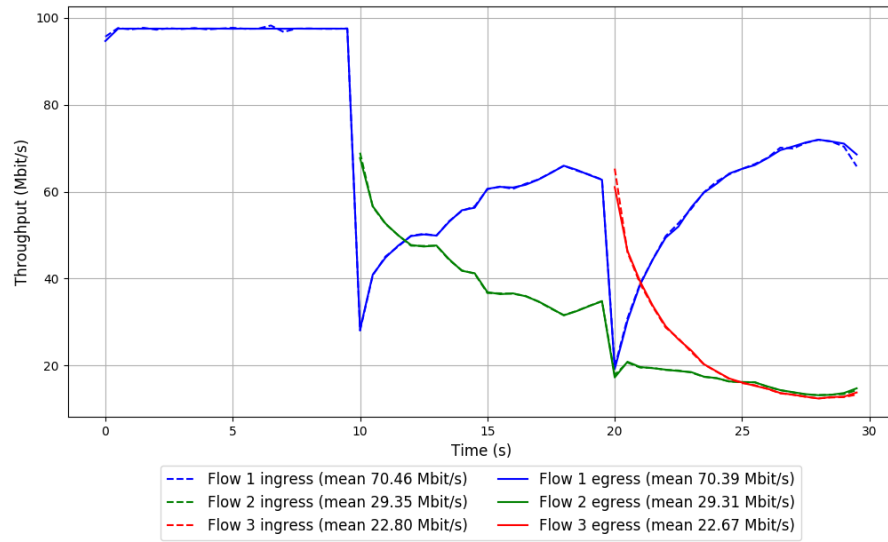
-- Flow 3:

Average throughput: 22.67 Mbit/s

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

Loss rate: 0.39%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-01 02:39:06

End at: 2018-02-01 02:39:36

Local clock offset: 0.374 ms

Remote clock offset: 0.681 ms

Below is generated by plot.py at 2018-02-01 05:06:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 19.847 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.50 Mbit/s

95th percentile per-packet one-way delay: 19.705 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.36 Mbit/s

95th percentile per-packet one-way delay: 19.499 ms

Loss rate: 0.00%

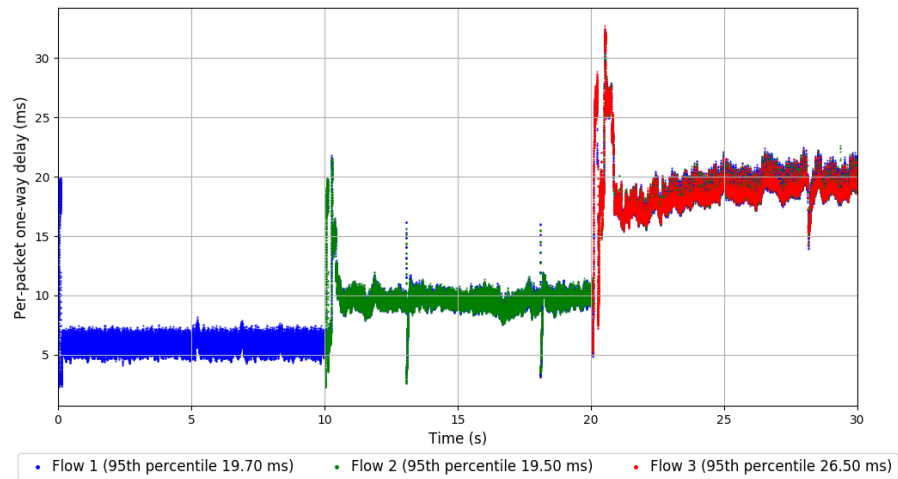
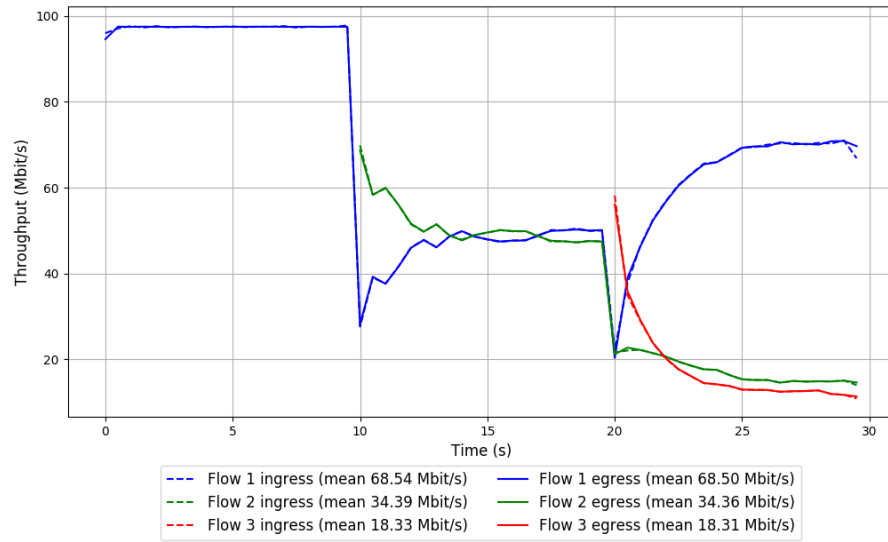
-- Flow 3:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 26.496 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-01 03:00:18

End at: 2018-02-01 03:00:48

Local clock offset: 0.188 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-02-01 05:06:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 25.818 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 69.65 Mbit/s

95th percentile per-packet one-way delay: 25.301 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 28.61 Mbit/s

95th percentile per-packet one-way delay: 25.727 ms

Loss rate: 0.04%

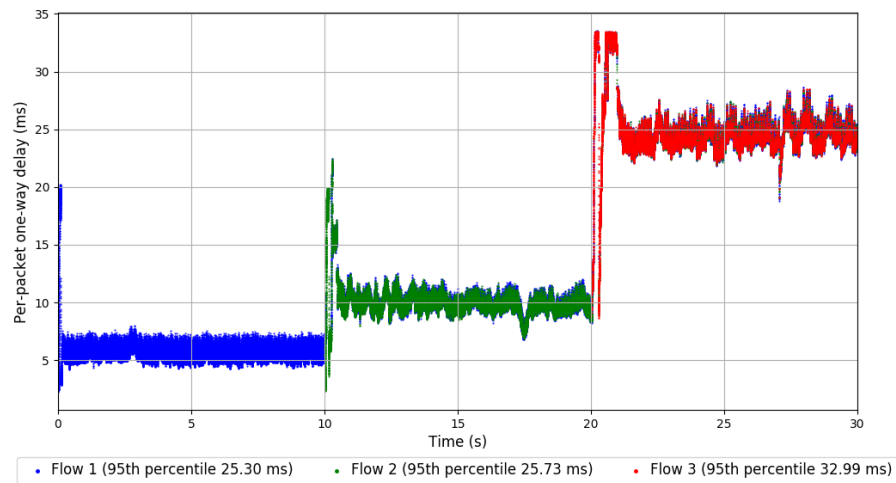
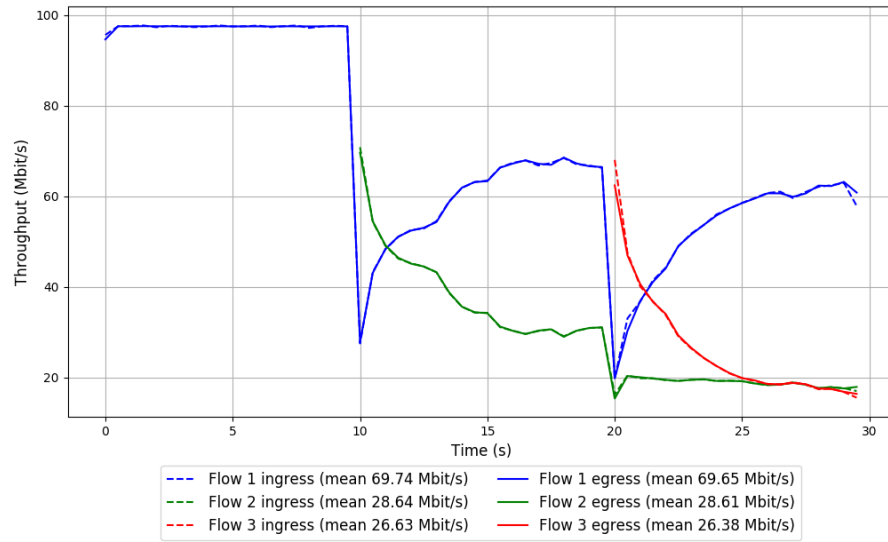
-- Flow 3:

Average throughput: 26.38 Mbit/s

95th percentile per-packet one-way delay: 32.989 ms

Loss rate: 0.77%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-01 03:21:01

End at: 2018-02-01 03:21:31

Local clock offset: 0.028 ms

Remote clock offset: 0.463 ms

Below is generated by plot.py at 2018-02-01 05:06:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 42.315 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 53.16 Mbit/s

95th percentile per-packet one-way delay: 14.359 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 17.398 ms

Loss rate: 0.05%

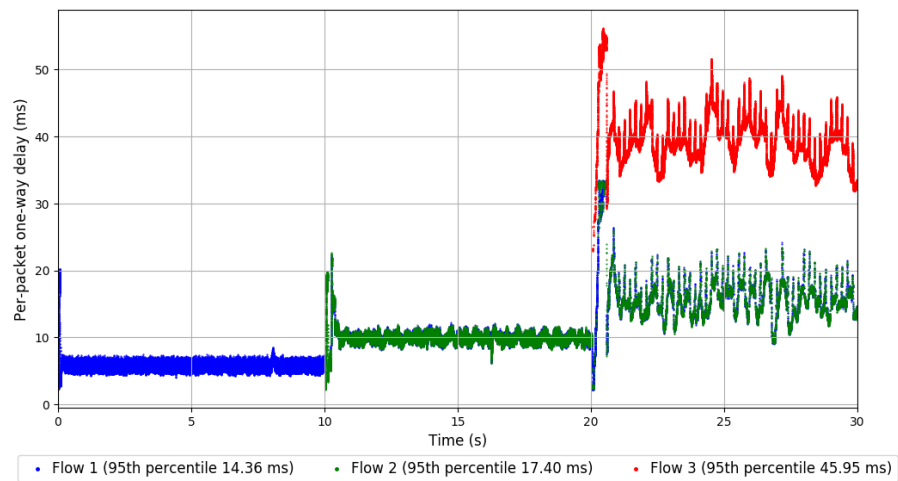
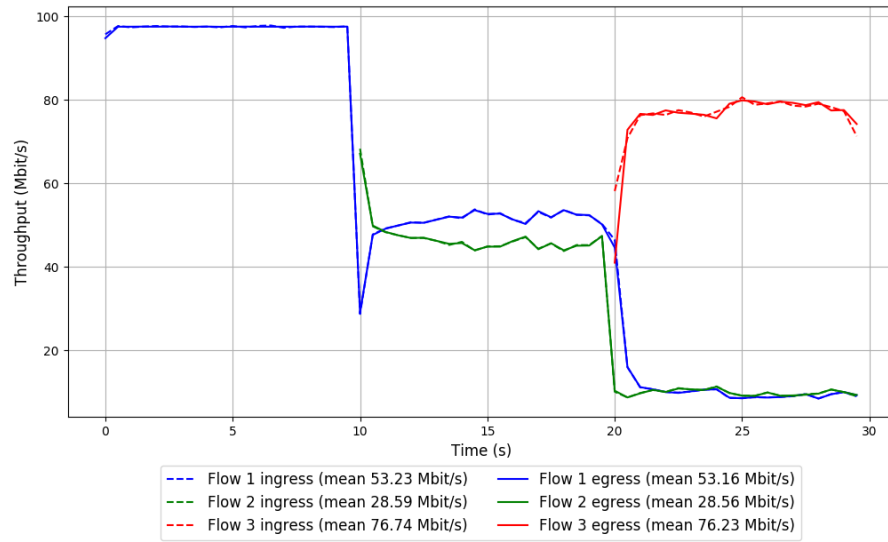
-- Flow 3:

Average throughput: 76.23 Mbit/s

95th percentile per-packet one-way delay: 45.946 ms

Loss rate: 0.78%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-01 03:41:34

End at: 2018-02-01 03:42:04

Local clock offset: -0.15 ms

Remote clock offset: 0.973 ms

Below is generated by plot.py at 2018-02-01 05:06:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 12.401 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.35 Mbit/s

95th percentile per-packet one-way delay: 11.492 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 12.908 ms

Loss rate: 0.00%

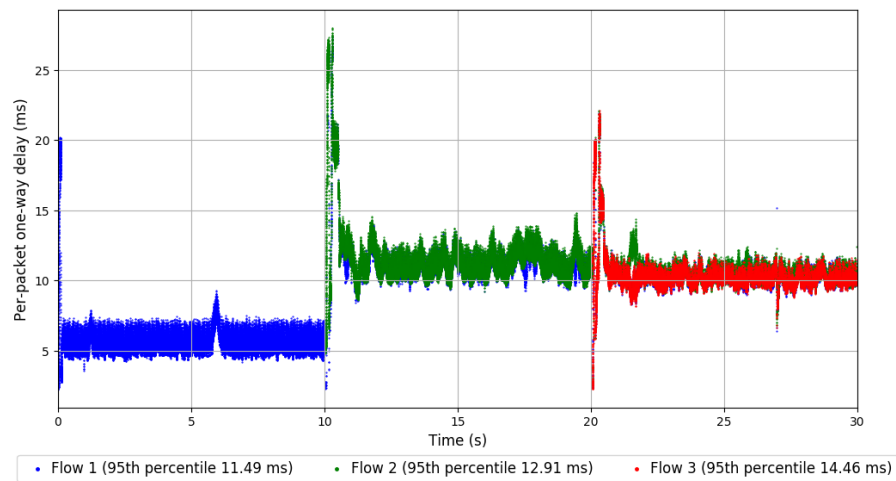
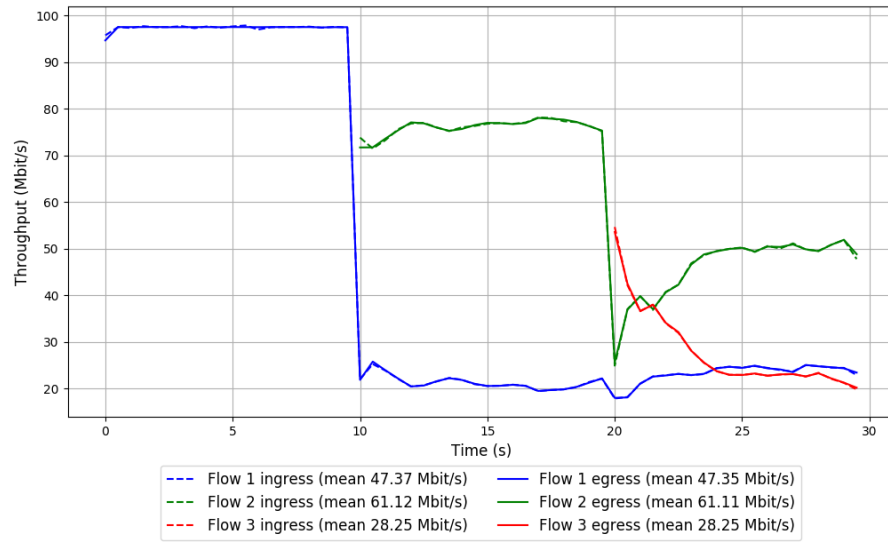
-- Flow 3:

Average throughput: 28.25 Mbit/s

95th percentile per-packet one-way delay: 14.459 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-01 04:02:08

End at: 2018-02-01 04:02:38

Local clock offset: -0.278 ms

Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-02-01 05:08:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 30.646 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 71.79 Mbit/s

95th percentile per-packet one-way delay: 29.793 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 25.96 Mbit/s

95th percentile per-packet one-way delay: 30.226 ms

Loss rate: 0.09%

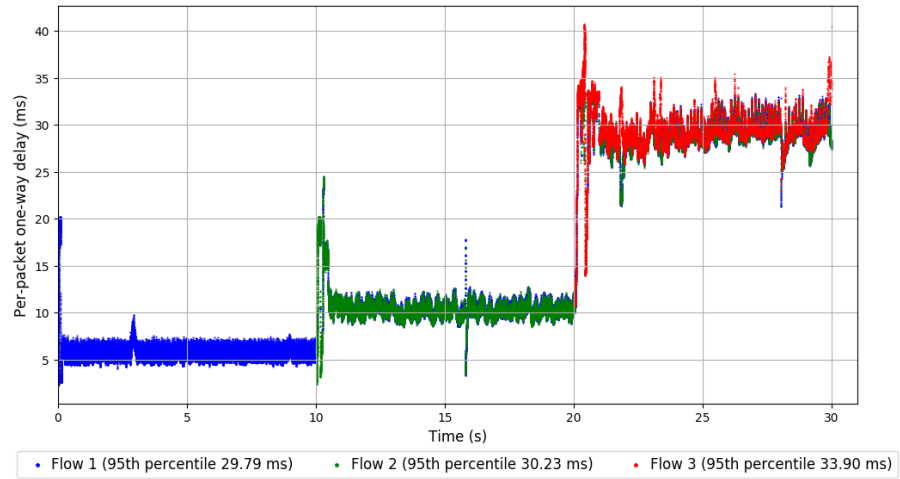
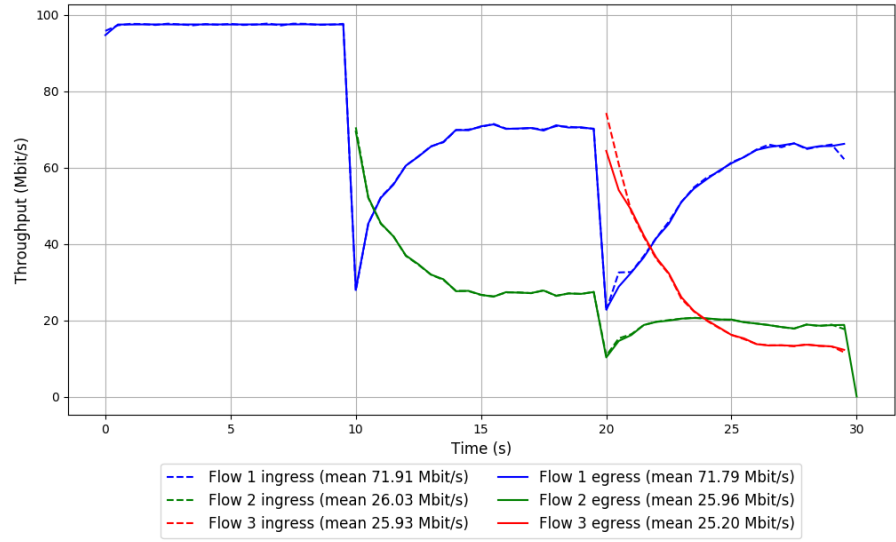
-- Flow 3:

Average throughput: 25.20 Mbit/s

95th percentile per-packet one-way delay: 33.895 ms

Loss rate: 2.66%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-01 04:22:43

End at: 2018-02-01 04:23:13

Local clock offset: -0.385 ms

Remote clock offset: 1.975 ms

Below is generated by plot.py at 2018-02-01 05:08:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 24.693 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 24.476 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 34.34 Mbit/s

95th percentile per-packet one-way delay: 24.220 ms

Loss rate: 0.01%

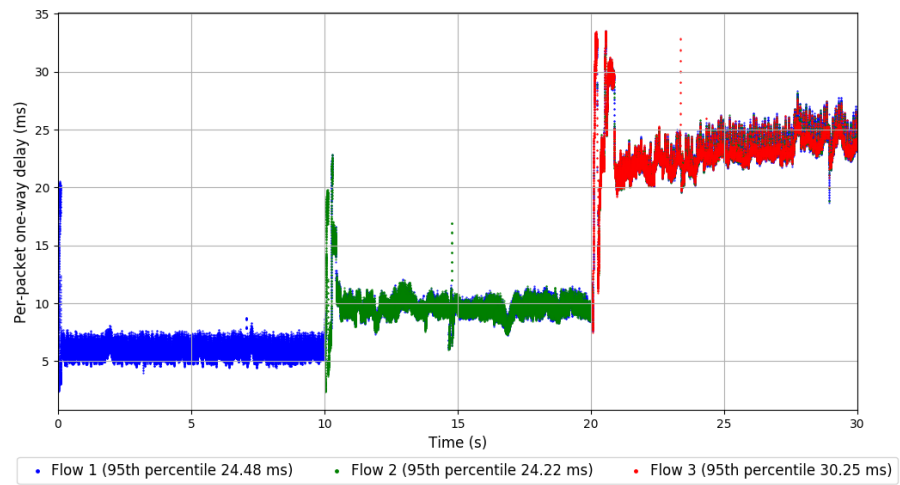
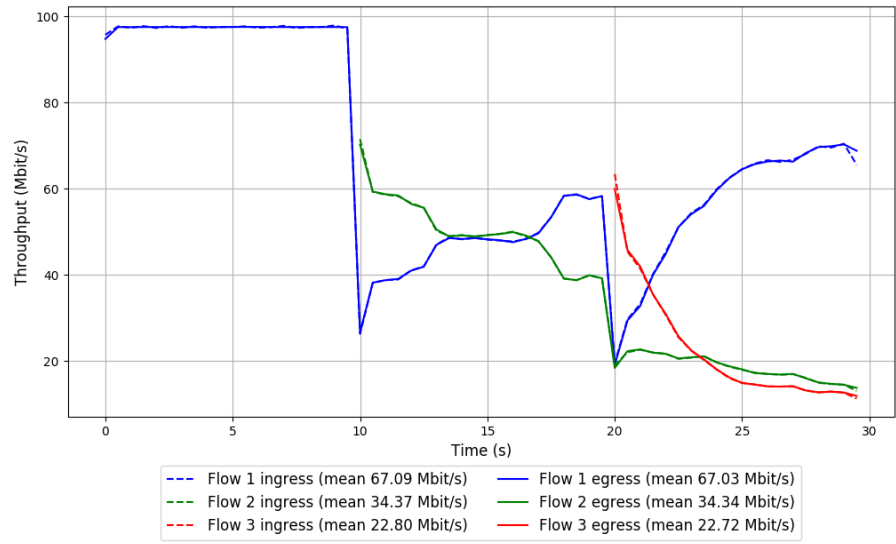
-- Flow 3:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 30.253 ms

Loss rate: 0.24%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-01 01:22:14

End at: 2018-02-01 01:22:44

Local clock offset: 0.614 ms

Remote clock offset: 2.021 ms

Below is generated by plot.py at 2018-02-01 05:08:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 32.647 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 71.059 ms

Loss rate: 7.71%

-- Flow 2:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 72.273 ms

Loss rate: 10.35%

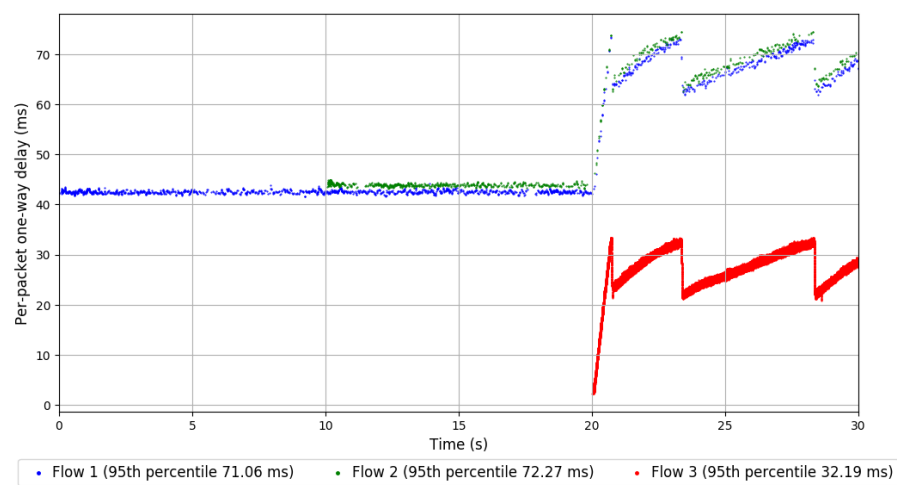
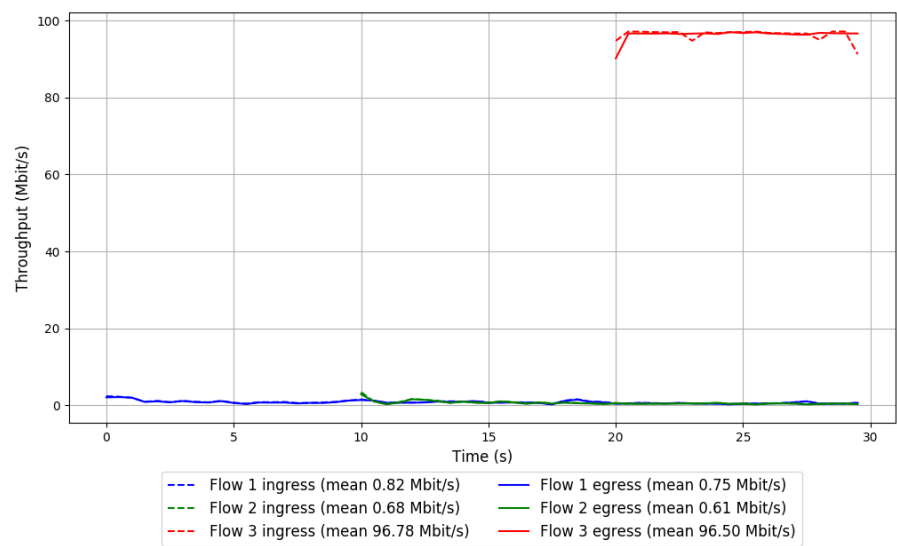
-- Flow 3:

Average throughput: 96.50 Mbit/s

95th percentile per-packet one-way delay: 32.191 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-01 01:43:59

End at: 2018-02-01 01:44:29

Local clock offset: 0.535 ms

Remote clock offset: 1.497 ms

Below is generated by plot.py at 2018-02-01 05:08:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.791 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 32.735 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 34.56 Mbit/s

95th percentile per-packet one-way delay: 32.820 ms

Loss rate: 0.08%

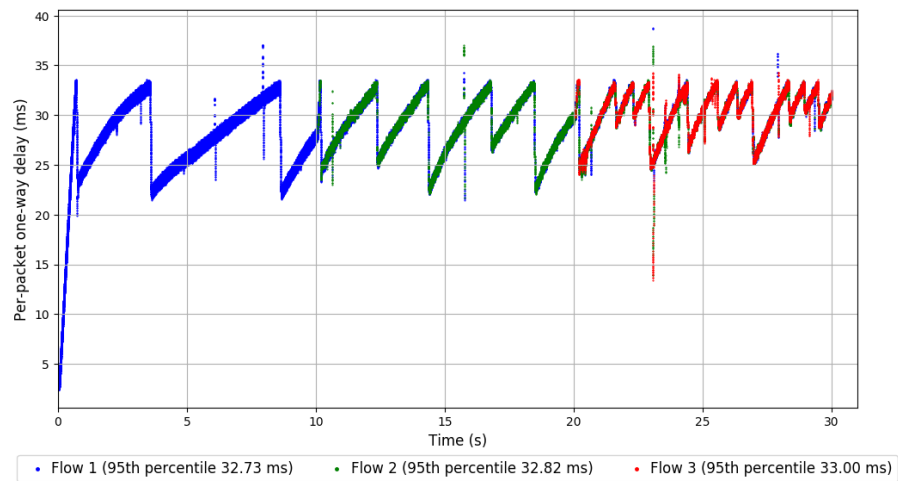
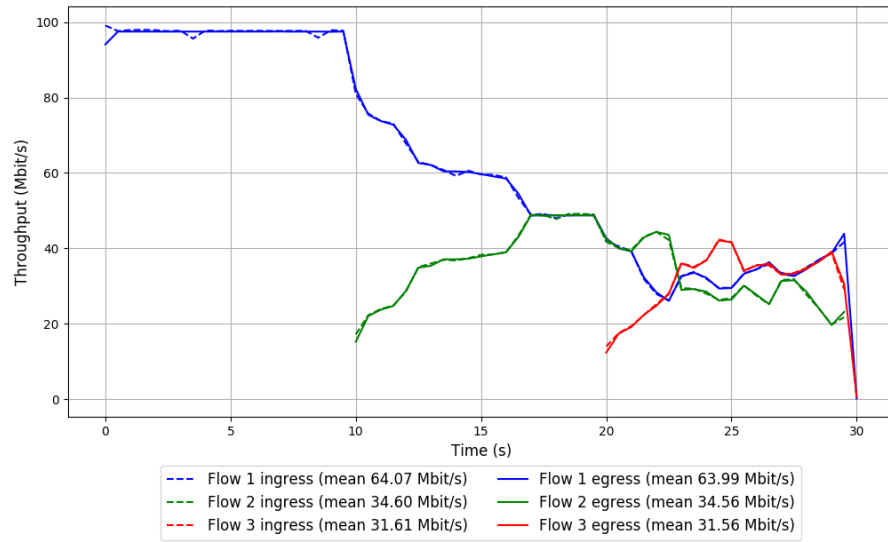
-- Flow 3:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 32.999 ms

Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-01 02:05:39

End at: 2018-02-01 02:06:09

Local clock offset: 0.56 ms

Remote clock offset: 1.102 ms

Below is generated by plot.py at 2018-02-01 05:08:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 32.661 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 73.111 ms

Loss rate: 5.48%

-- Flow 2:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 32.475 ms

Loss rate: 0.02%

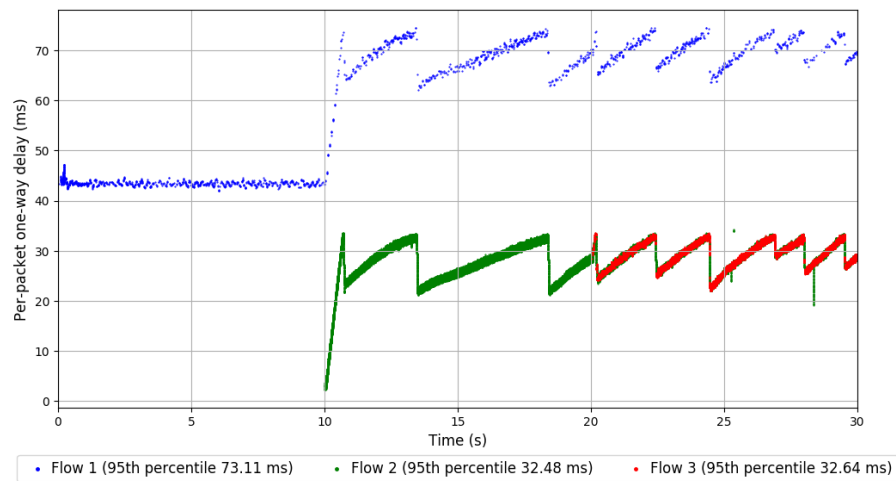
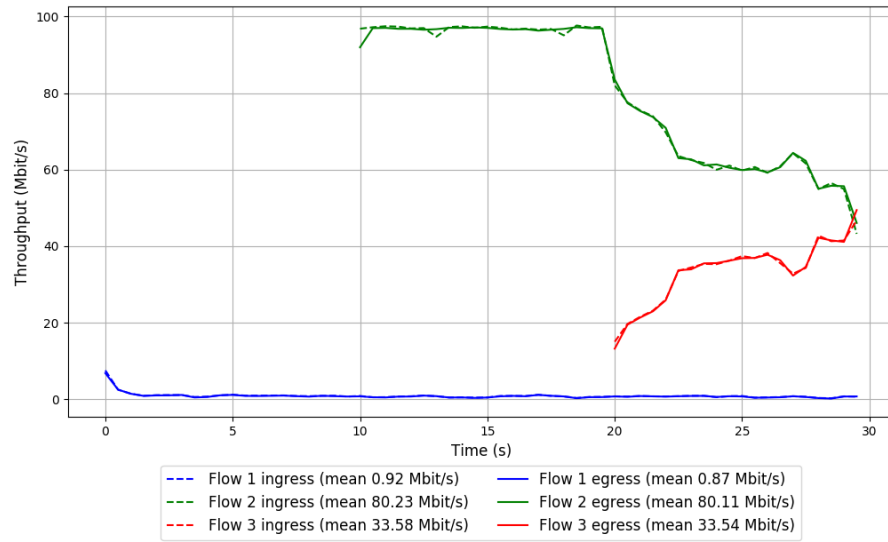
-- Flow 3:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 32.643 ms

Loss rate: 0.13%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-01 02:27:16

End at: 2018-02-01 02:27:46

Local clock offset: 0.495 ms

Remote clock offset: 0.899 ms

Below is generated by plot.py at 2018-02-01 05:08:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.705 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 58.33 Mbit/s

95th percentile per-packet one-way delay: 32.651 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 32.733 ms

Loss rate: 0.03%

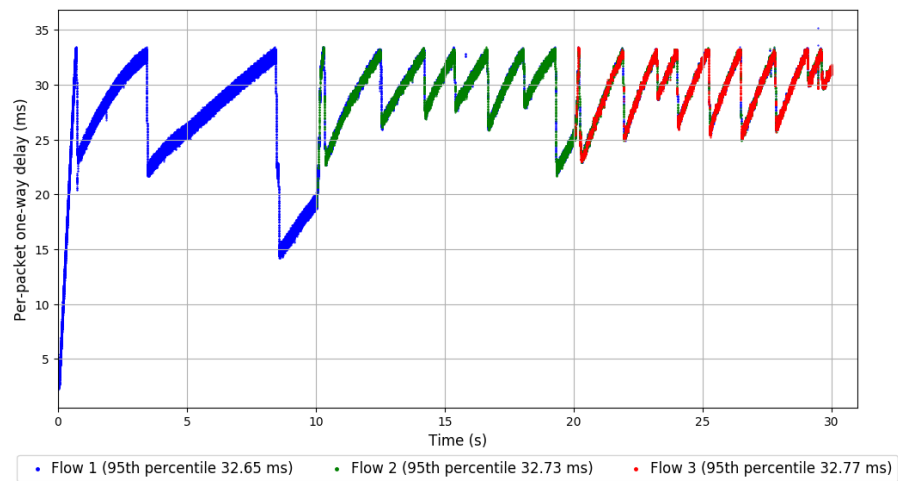
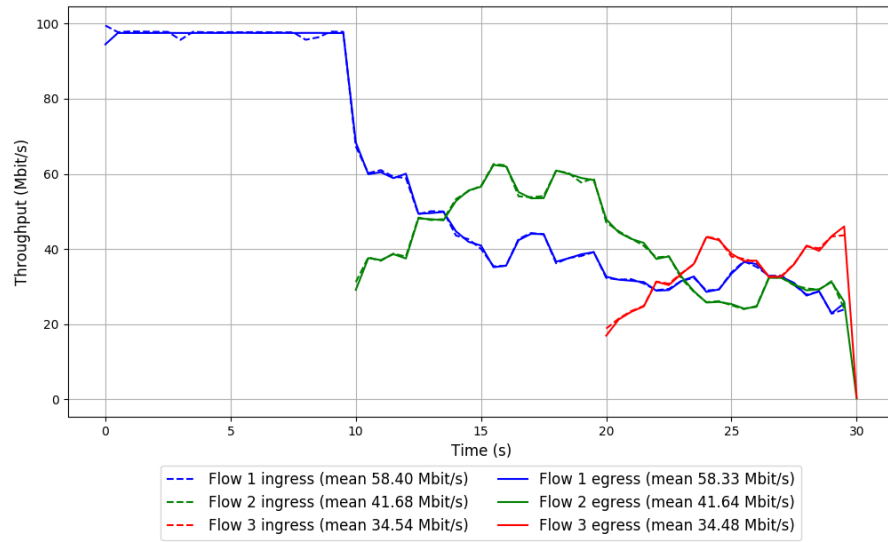
-- Flow 3:

Average throughput: 34.48 Mbit/s

95th percentile per-packet one-way delay: 32.765 ms

Loss rate: 0.11%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-01 02:48:31

End at: 2018-02-01 02:49:01

Local clock offset: 0.313 ms

Remote clock offset: 0.642 ms

Below is generated by plot.py at 2018-02-01 05:08:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.728 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 62.94 Mbit/s

95th percentile per-packet one-way delay: 32.658 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 32.758 ms

Loss rate: 0.08%

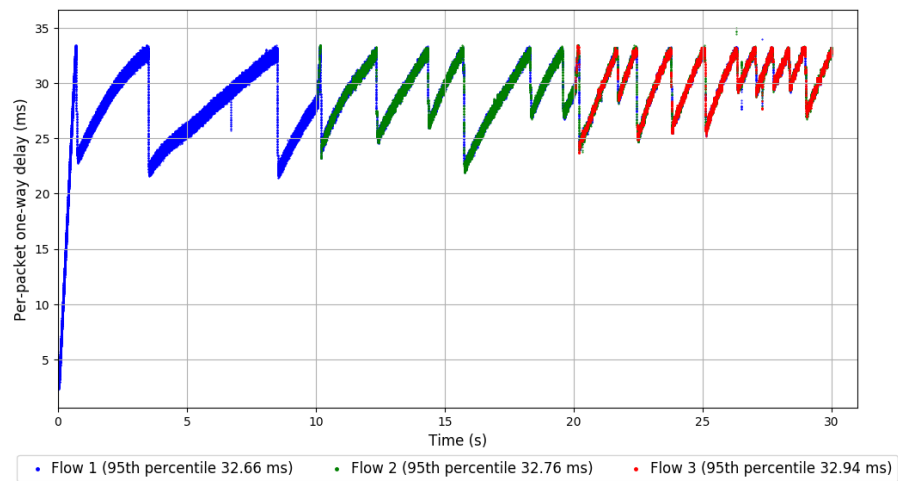
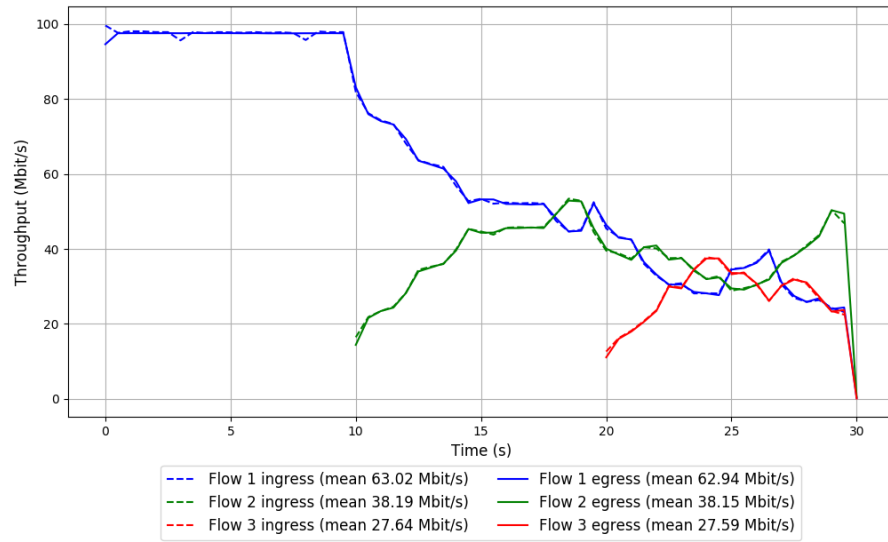
-- Flow 3:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 32.937 ms

Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-01 03:09:35

End at: 2018-02-01 03:10:05

Local clock offset: 0.127 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-02-01 05:08:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.723 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 67.80 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 30.29 Mbit/s

95th percentile per-packet one-way delay: 32.768 ms

Loss rate: 0.09%

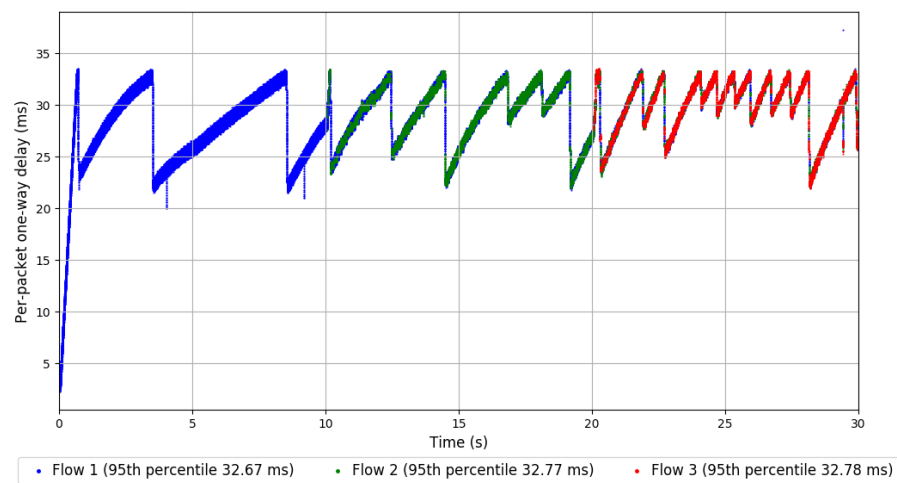
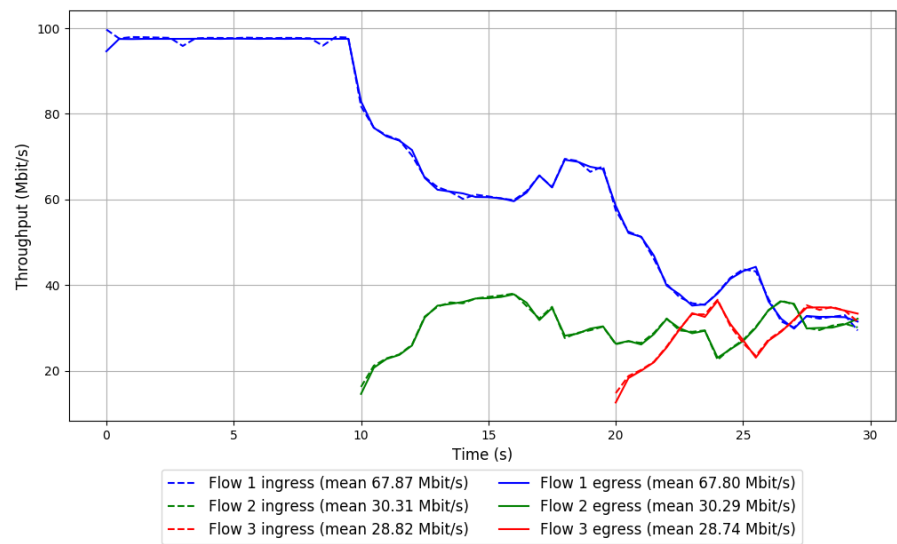
-- Flow 3:

Average throughput: 28.74 Mbit/s

95th percentile per-packet one-way delay: 32.777 ms

Loss rate: 0.29%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-01 03:30:08

End at: 2018-02-01 03:30:39

Local clock offset: -0.148 ms

Remote clock offset: 0.801 ms

Below is generated by plot.py at 2018-02-01 05:08:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.817 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.72 Mbit/s

95th percentile per-packet one-way delay: 32.771 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 32.865 ms

Loss rate: 0.09%

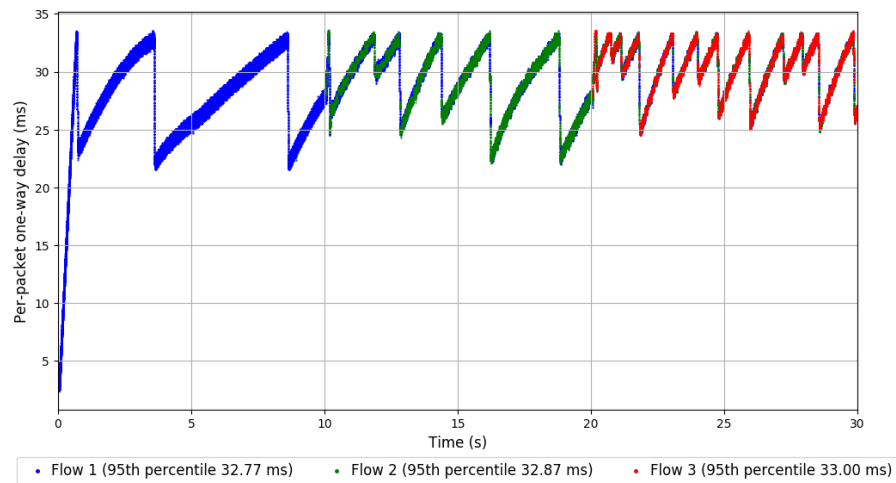
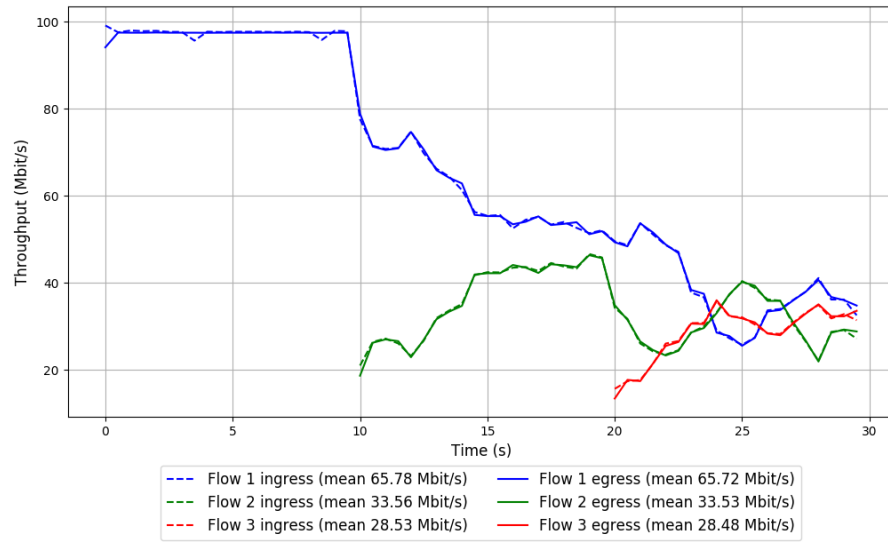
-- Flow 3:

Average throughput: 28.48 Mbit/s

95th percentile per-packet one-way delay: 32.999 ms

Loss rate: 0.18%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-01 03:50:42

End at: 2018-02-01 03:51:12

Local clock offset: -0.191 ms

Remote clock offset: 1.434 ms

Below is generated by plot.py at 2018-02-01 05:08:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 32.661 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 67.10 Mbit/s

95th percentile per-packet one-way delay: 32.592 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 32.705 ms

Loss rate: 0.09%

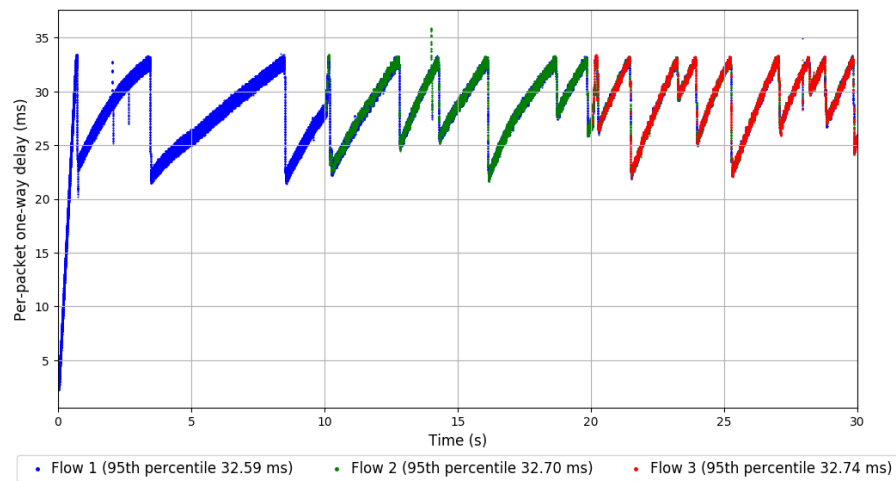
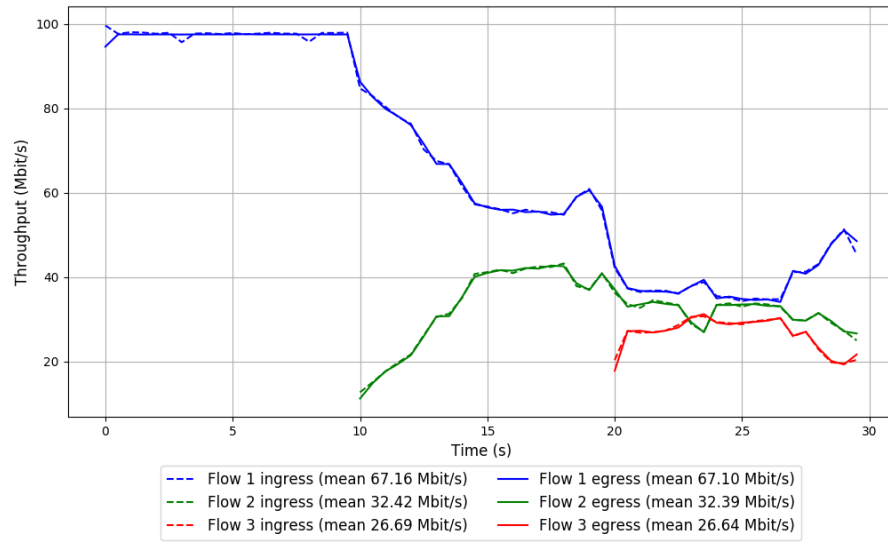
-- Flow 3:

Average throughput: 26.64 Mbit/s

95th percentile per-packet one-way delay: 32.745 ms

Loss rate: 0.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-01 04:11:16

End at: 2018-02-01 04:11:46

Local clock offset: -0.306 ms

Remote clock offset: 1.792 ms

Below is generated by plot.py at 2018-02-01 05:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 32.646 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 68.46 Mbit/s

95th percentile per-packet one-way delay: 32.496 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 32.728 ms

Loss rate: 0.07%

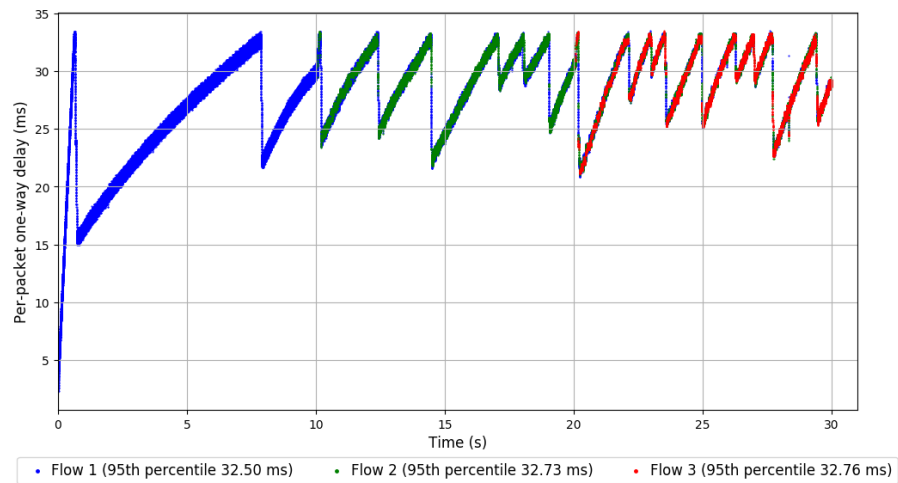
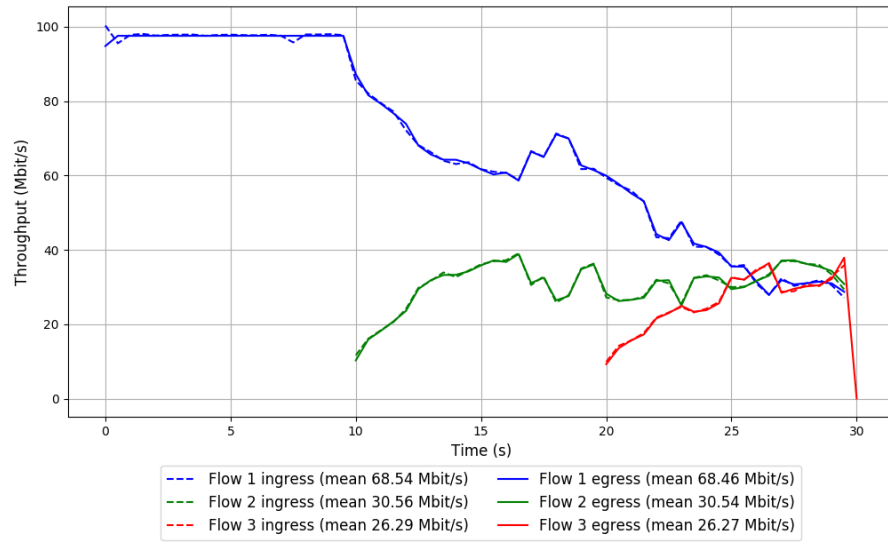
-- Flow 3:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 32.764 ms

Loss rate: 0.10%

Run 9: Report of TCP Cubic — Data Link

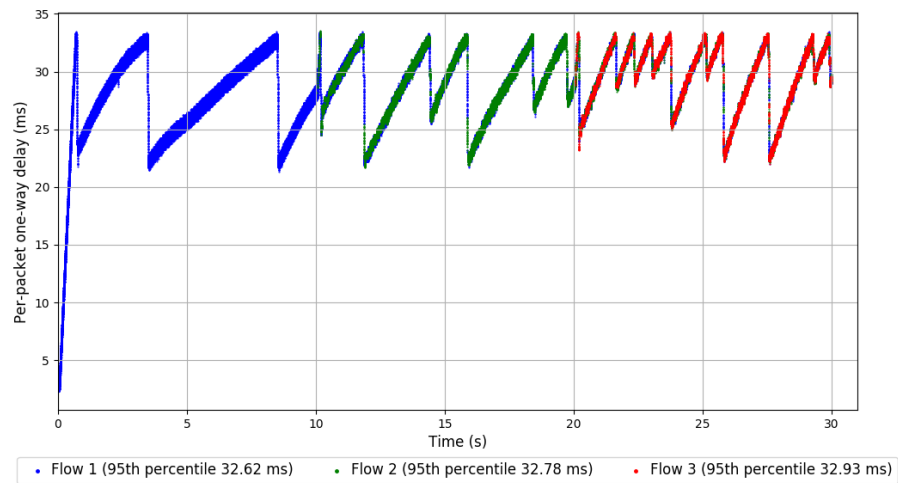
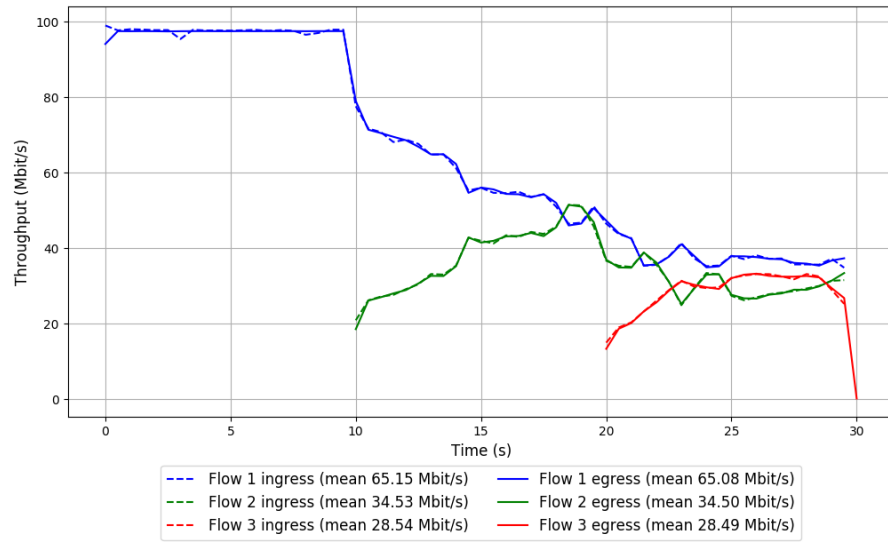


Run 10: Statistics of TCP Cubic

Start at: 2018-02-01 04:31:50
End at: 2018-02-01 04:32:20
Local clock offset: -0.328 ms
Remote clock offset: 2.034 ms

Below is generated by plot.py at 2018-02-01 05:09:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.731 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 32.619 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 32.779 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 32.932 ms
Loss rate: 0.14%

Run 10: Report of TCP Cubic — Data Link

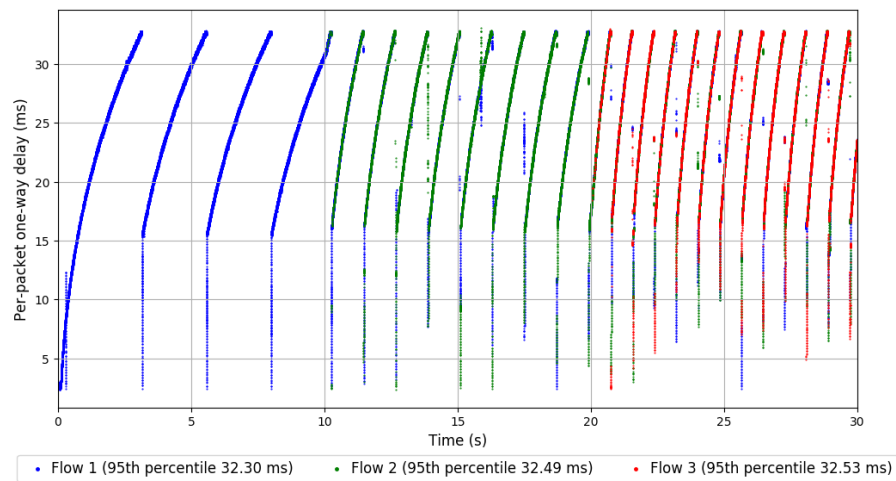
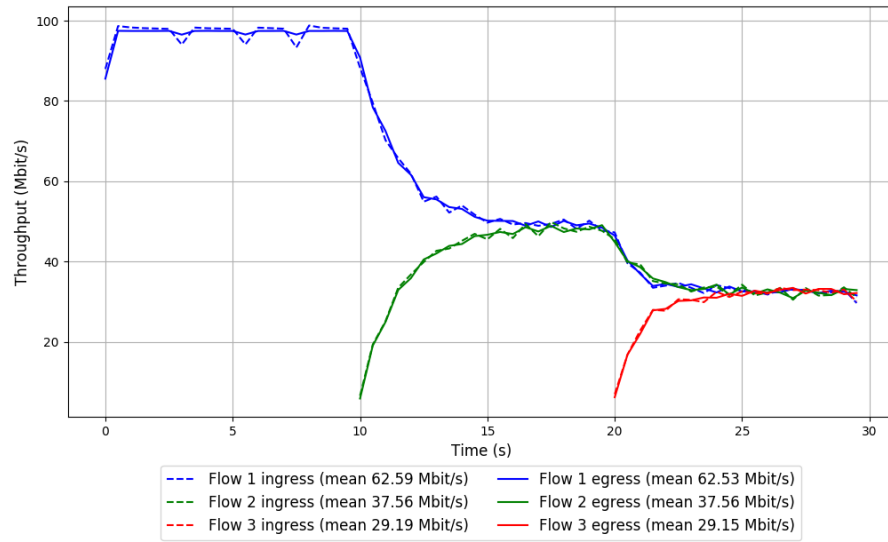


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-01 01:25:44
End at: 2018-02-01 01:26:14
Local clock offset: 0.565 ms
Remote clock offset: 2.009 ms

# Below is generated by plot.py at 2018-02-01 05:09:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 32.339 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.53 Mbit/s
95th percentile per-packet one-way delay: 32.302 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 32.486 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 32.531 ms
Loss rate: 0.07%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-01 01:47:34

End at: 2018-02-01 01:48:04

Local clock offset: 0.61 ms

Remote clock offset: 1.398 ms

Below is generated by plot.py at 2018-02-01 05:09:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 32.222 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 60.61 Mbit/s

95th percentile per-packet one-way delay: 32.146 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 32.394 ms

Loss rate: 0.05%

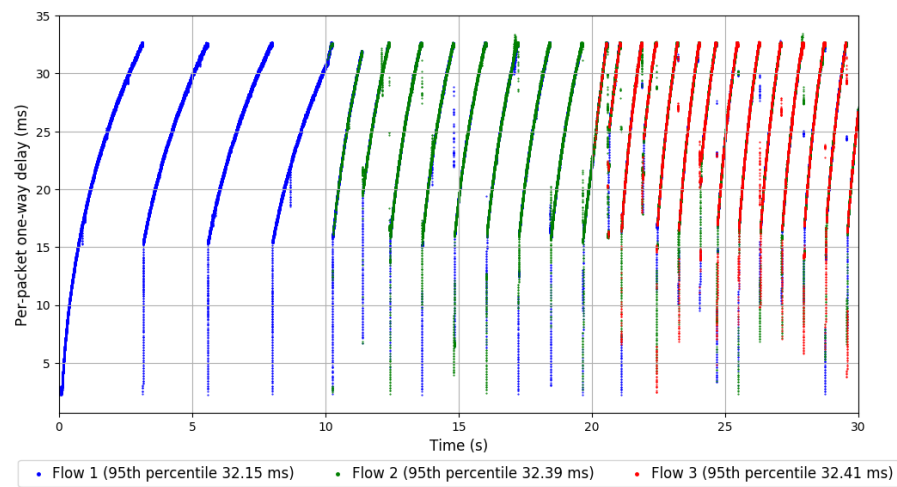
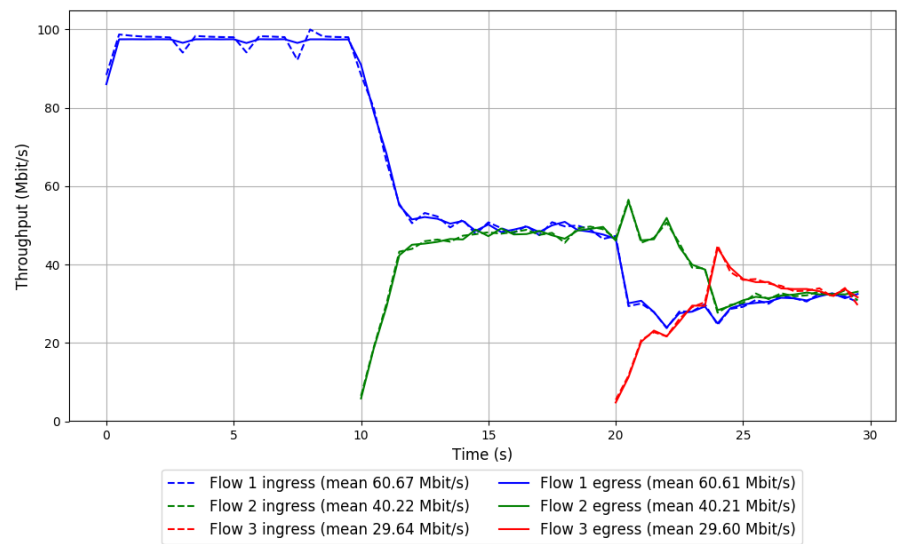
-- Flow 3:

Average throughput: 29.60 Mbit/s

95th percentile per-packet one-way delay: 32.415 ms

Loss rate: 0.09%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-01 02:09:09

End at: 2018-02-01 02:09:39

Local clock offset: 0.526 ms

Remote clock offset: 1.03 ms

Below is generated by plot.py at 2018-02-01 05:09:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 32.209 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 68.91 Mbit/s

95th percentile per-packet one-way delay: 32.047 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 32.214 ms

Loss rate: 0.05%

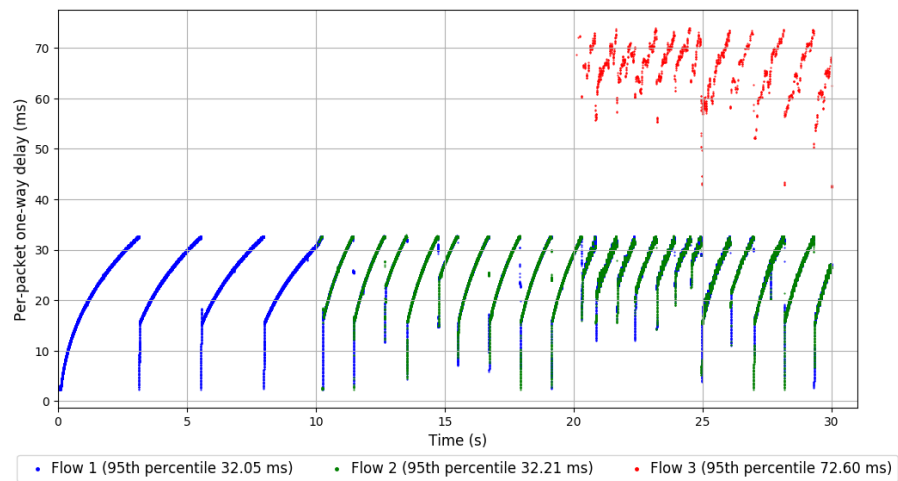
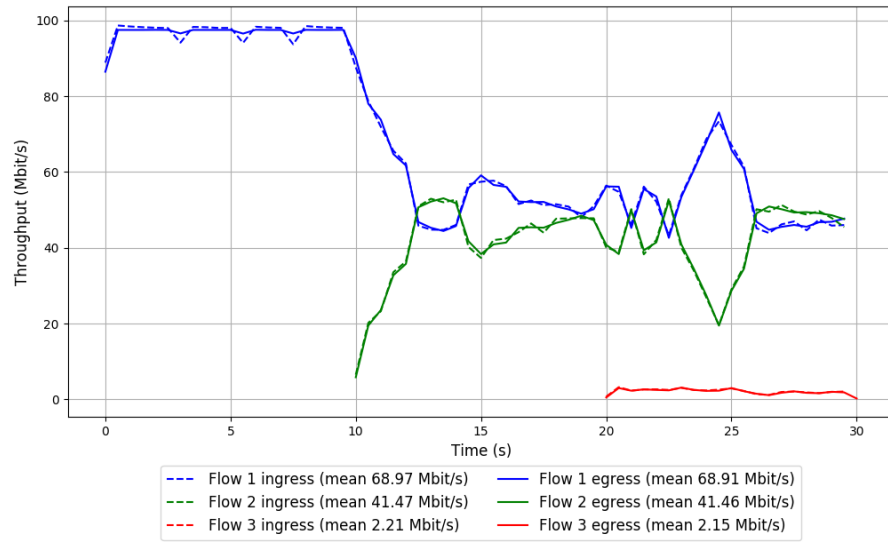
-- Flow 3:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 72.597 ms

Loss rate: 2.83%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-01 02:30:46

End at: 2018-02-01 02:31:16

Local clock offset: 0.463 ms

Remote clock offset: 0.873 ms

Below is generated by plot.py at 2018-02-01 05:09:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 32.259 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 66.68 Mbit/s

95th percentile per-packet one-way delay: 32.144 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 32.218 ms

Loss rate: 0.05%

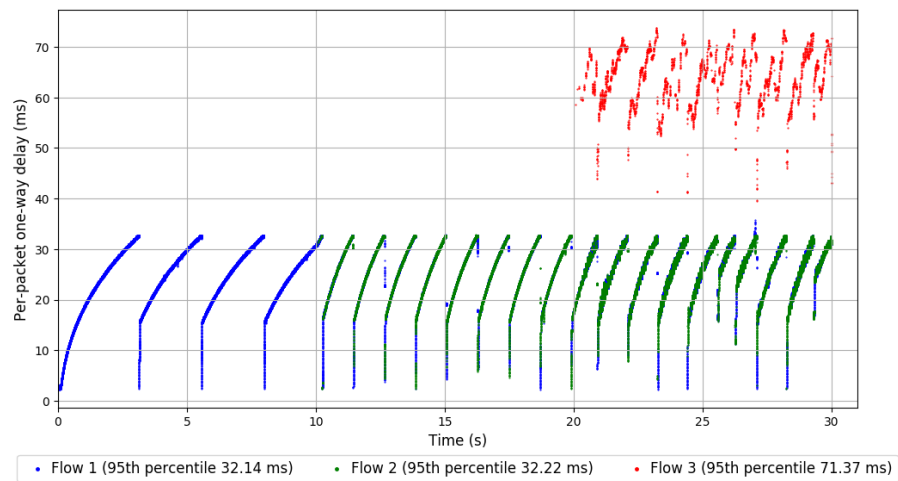
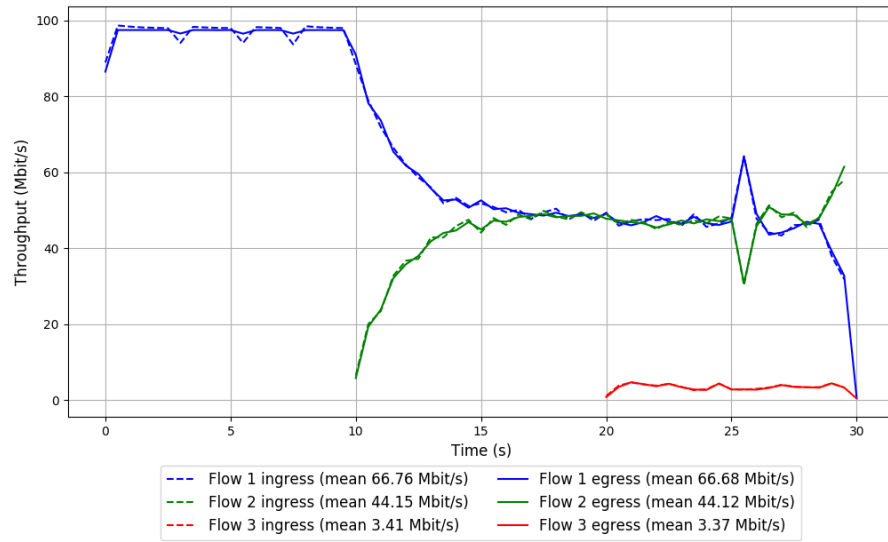
-- Flow 3:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 71.371 ms

Loss rate: 1.31%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-01 02:52:00

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

Local clock offset: 0.248 ms

Remote clock offset: 0.588 ms

Below is generated by plot.py at 2018-02-01 05:09:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 32.266 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 32.235 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 32.430 ms

Loss rate: 0.06%

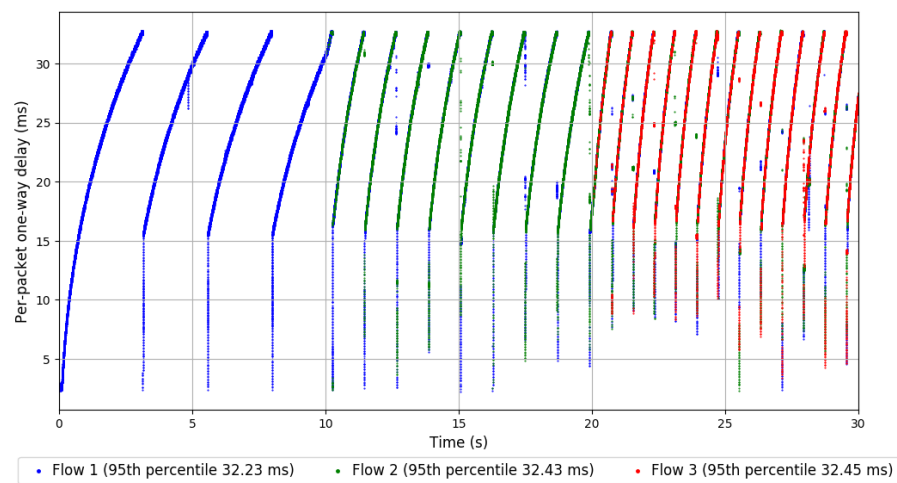
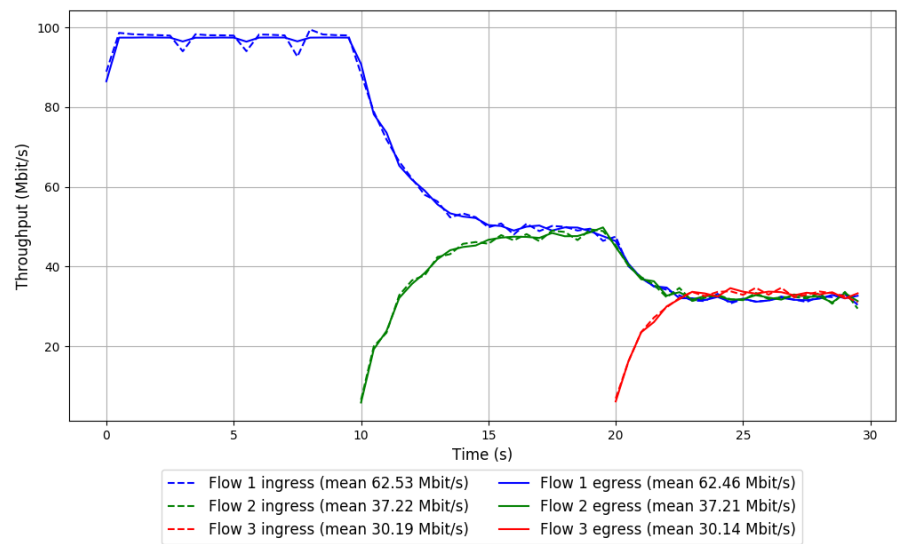
-- Flow 3:

Average throughput: 30.14 Mbit/s

95th percentile per-packet one-way delay: 32.450 ms

Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-01 03:12:58

End at: 2018-02-01 03:13:28

Local clock offset: 0.104 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-02-01 05:10:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 32.221 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.12 Mbit/s

95th percentile per-packet one-way delay: 32.182 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 32.385 ms

Loss rate: 0.06%

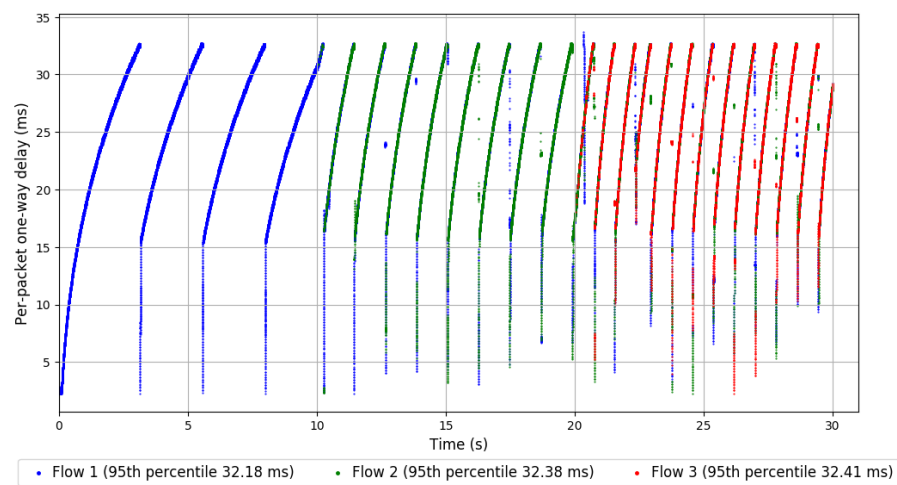
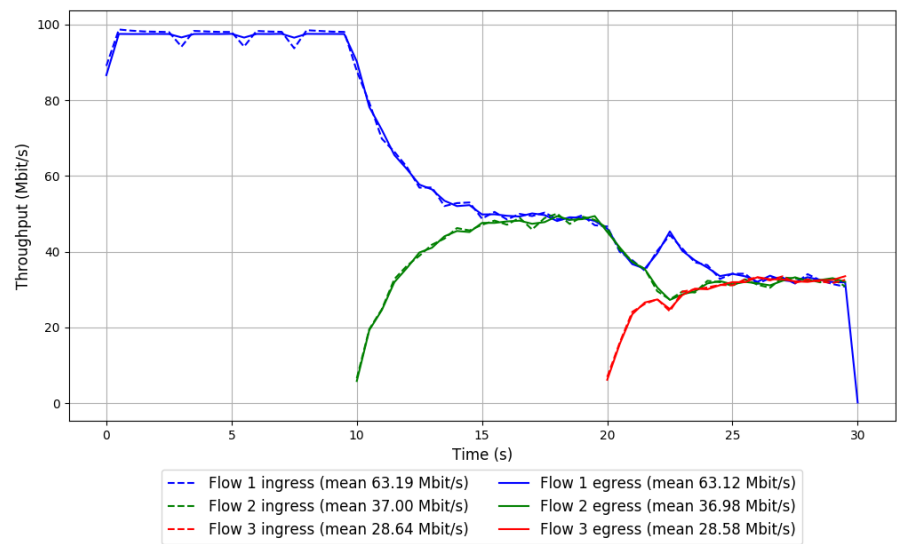
-- Flow 3:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 32.406 ms

Loss rate: 0.09%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-01 03:33:31

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

Local clock offset: -0.106 ms

Remote clock offset: 0.788 ms

Below is generated by plot.py at 2018-02-01 05:10:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 32.264 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.45 Mbit/s

95th percentile per-packet one-way delay: 32.220 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 37.49 Mbit/s

95th percentile per-packet one-way delay: 32.437 ms

Loss rate: 0.06%

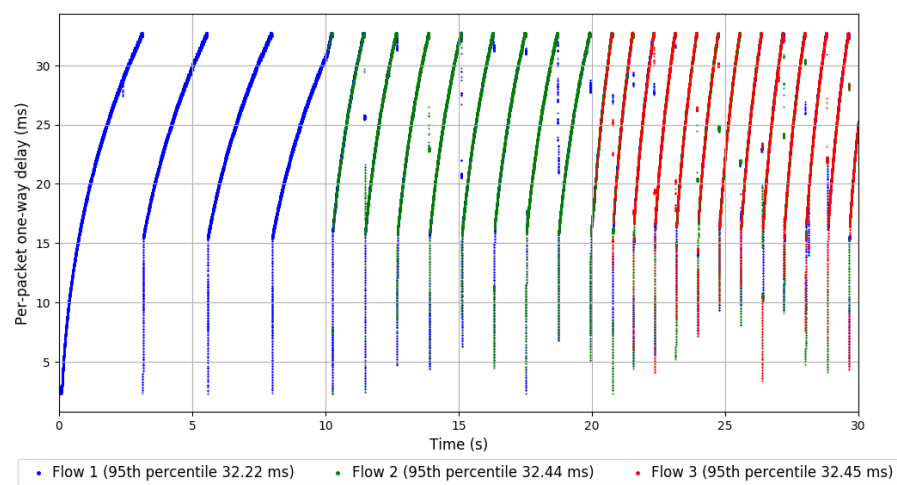
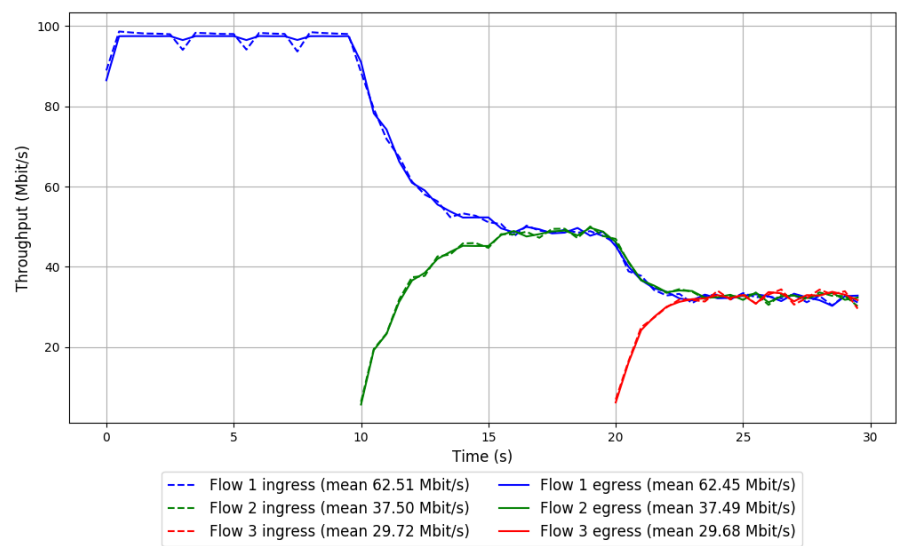
-- Flow 3:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 32.445 ms

Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link

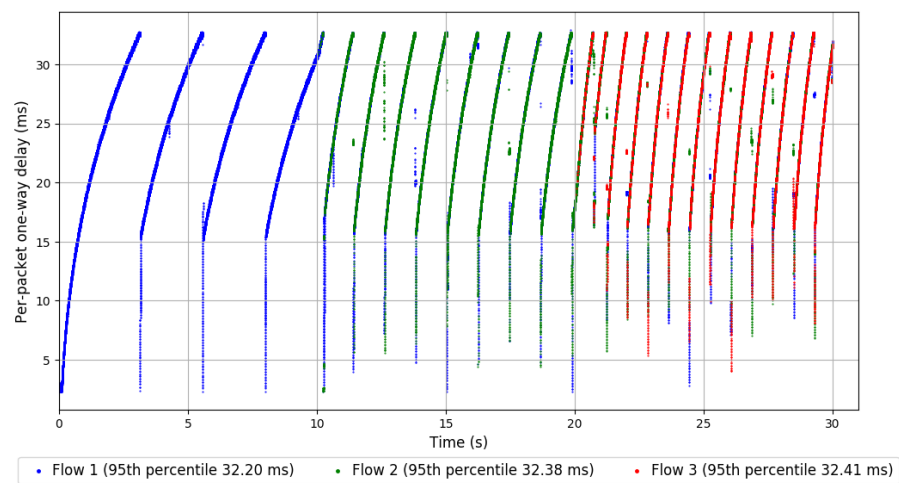
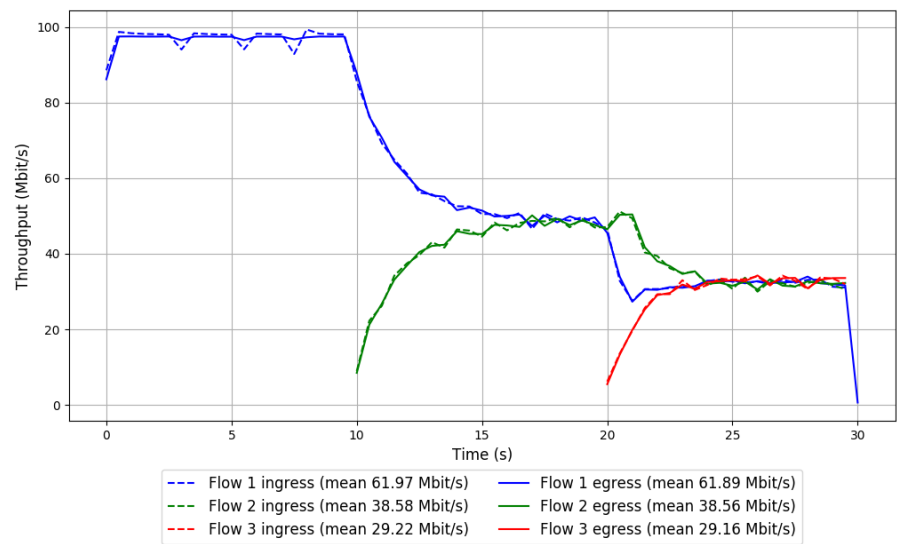


Run 8: Statistics of LEDBAT

Start at: 2018-02-01 03:54:05
End at: 2018-02-01 03:54:35
Local clock offset: -0.211 ms
Remote clock offset: 1.592 ms

```
# Below is generated by plot.py at 2018-02-01 05:10:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 32.226 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.89 Mbit/s
95th percentile per-packet one-way delay: 32.203 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 32.383 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 32.407 ms
Loss rate: 0.08%
```

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-01 04:14:39

End at: 2018-02-01 04:15:09

Local clock offset: -0.357 ms

Remote clock offset: 1.85 ms

Below is generated by plot.py at 2018-02-01 05:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 32.302 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 32.253 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 32.488 ms

Loss rate: 0.05%

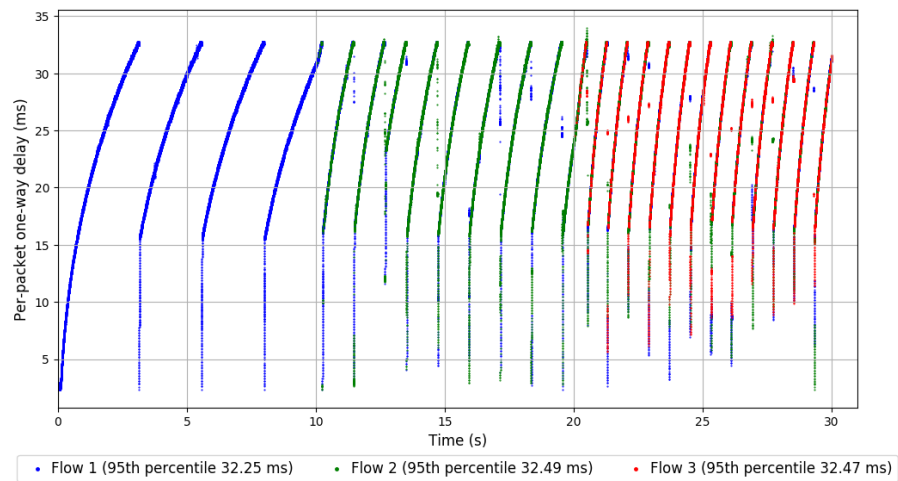
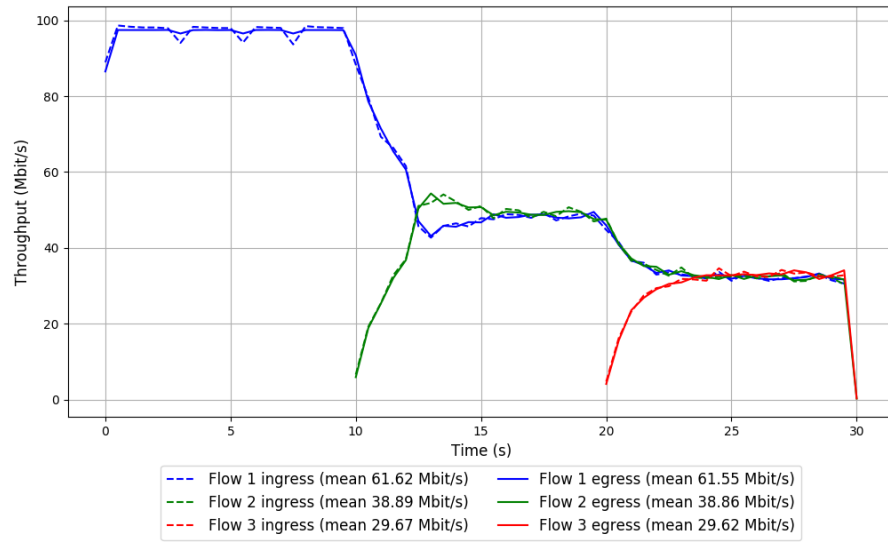
-- Flow 3:

Average throughput: 29.62 Mbit/s

95th percentile per-packet one-way delay: 32.469 ms

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-01 04:35:13

End at: 2018-02-01 04:35:43

Local clock offset: -0.38 ms

Remote clock offset: 1.979 ms

Below is generated by plot.py at 2018-02-01 05:11:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 32.278 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.35 Mbit/s

95th percentile per-packet one-way delay: 32.236 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 32.466 ms

Loss rate: 0.08%

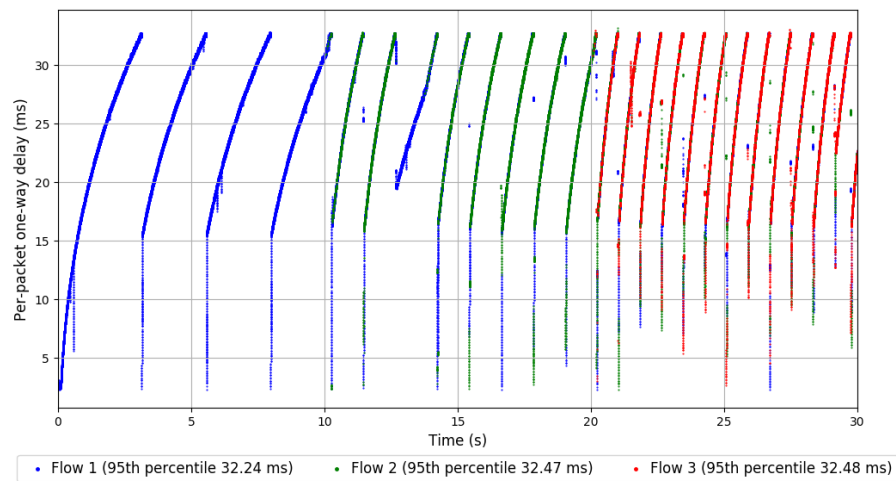
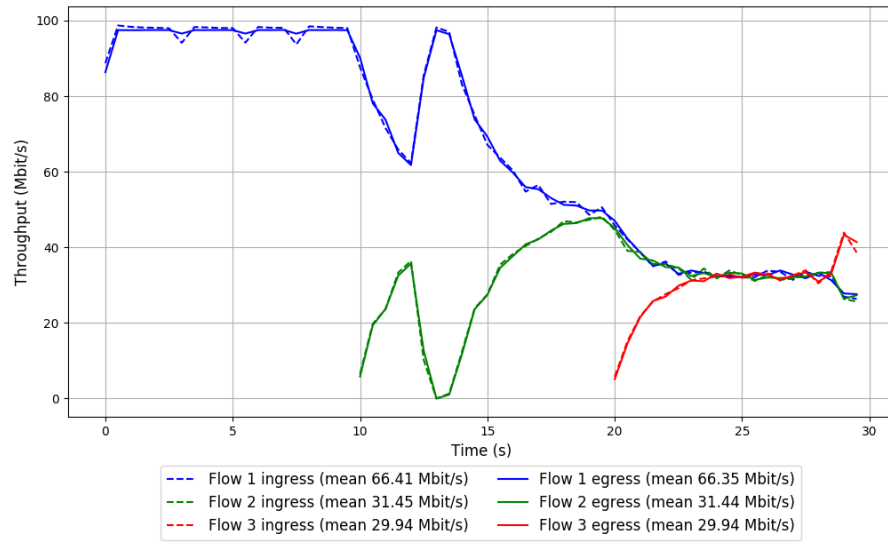
-- Flow 3:

Average throughput: 29.94 Mbit/s

95th percentile per-packet one-way delay: 32.480 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

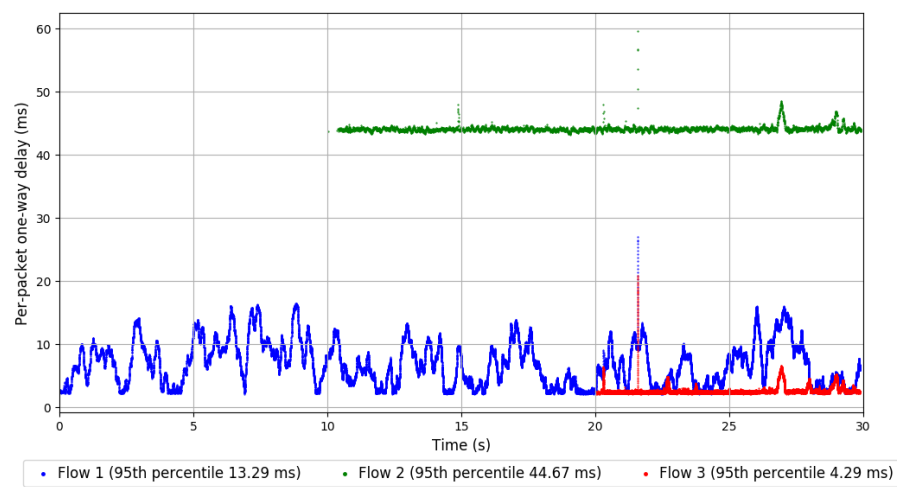
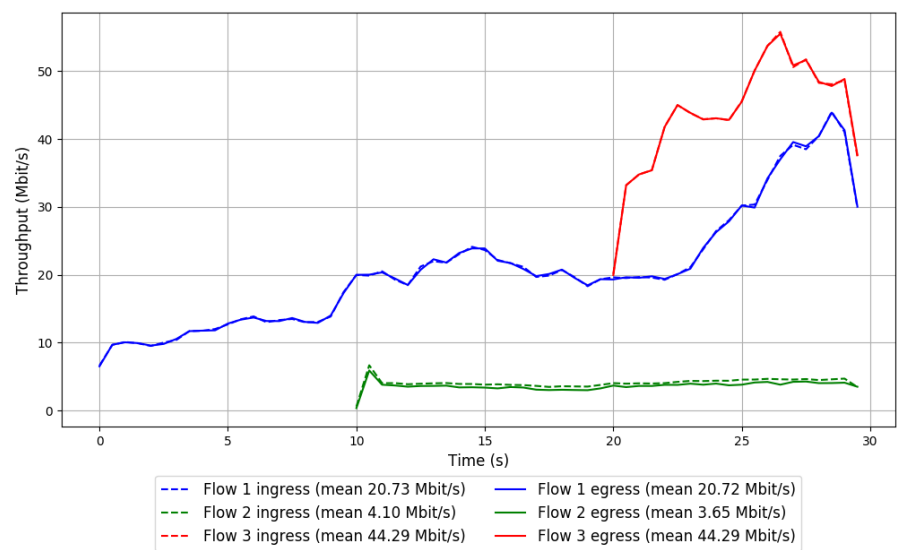


```
Run 1: Statistics of PCC

Start at: 2018-02-01 01:16:07
End at: 2018-02-01 01:16:37
Local clock offset: 0.56 ms
Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2018-02-01 05:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.72 Mbit/s
95th percentile per-packet one-way delay: 43.928 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 13.286 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 44.672 ms
Loss rate: 10.97%
-- Flow 3:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 4.293 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-01 01:37:49

End at: 2018-02-01 01:38:19

Local clock offset: 0.625 ms

Remote clock offset: 1.633 ms

Below is generated by plot.py at 2018-02-01 05:11:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.37 Mbit/s

95th percentile per-packet one-way delay: 12.914 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.13 Mbit/s

95th percentile per-packet one-way delay: 10.987 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 28.610 ms

Loss rate: 0.05%

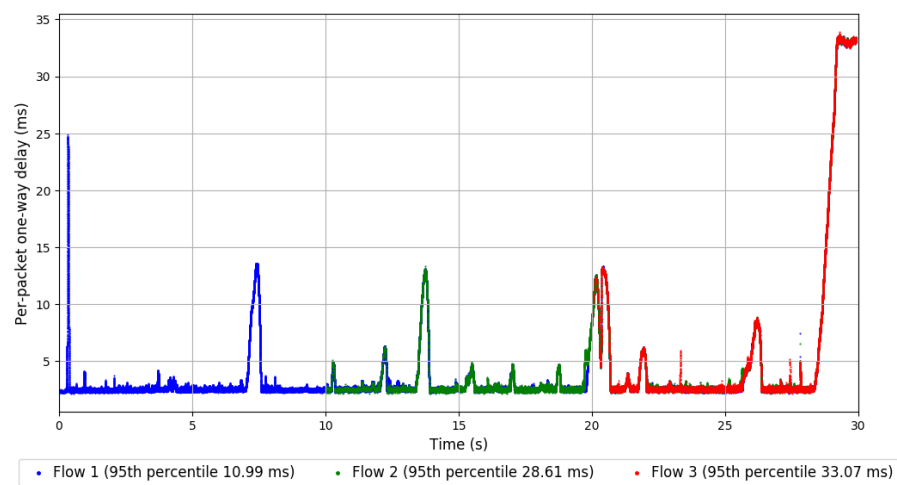
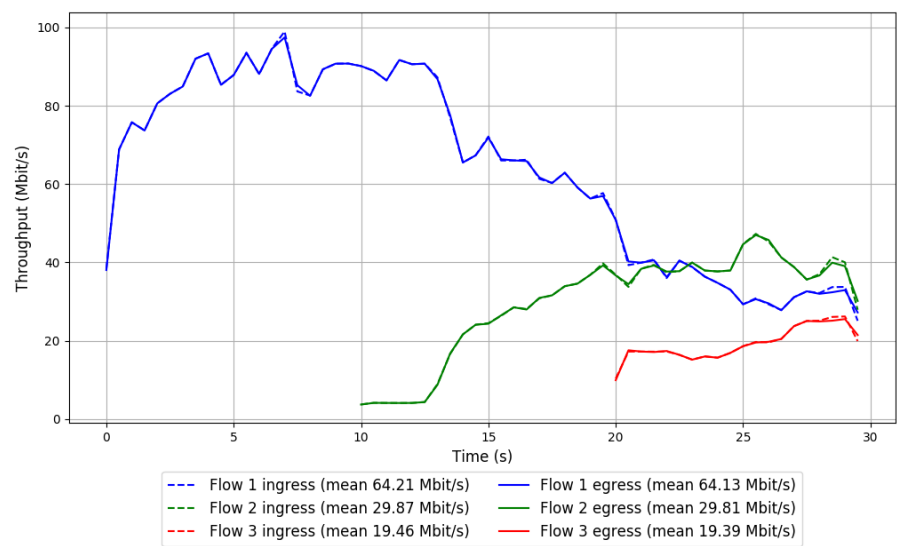
-- Flow 3:

Average throughput: 19.39 Mbit/s

95th percentile per-packet one-way delay: 33.072 ms

Loss rate: 0.10%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-01 01:59:36

End at: 2018-02-01 02:00:06

Local clock offset: 0.529 ms

Remote clock offset: 1.104 ms

Below is generated by plot.py at 2018-02-01 05:11:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 7.209 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 6.071 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.17 Mbit/s

95th percentile per-packet one-way delay: 8.655 ms

Loss rate: 0.00%

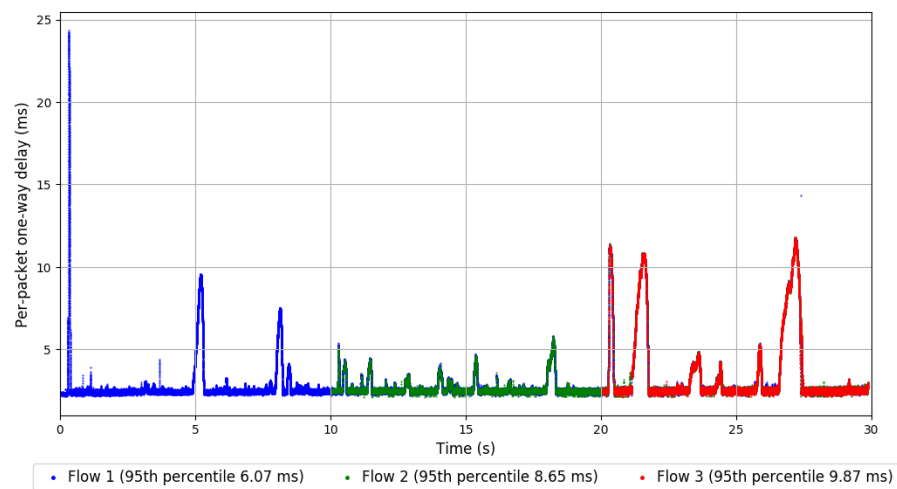
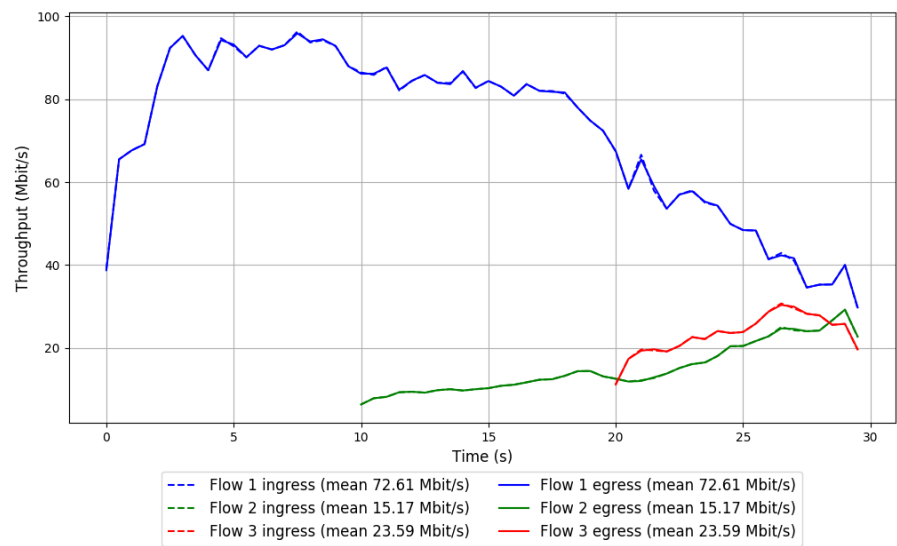
-- Flow 3:

Average throughput: 23.59 Mbit/s

95th percentile per-packet one-way delay: 9.871 ms

Loss rate: 0.00%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-01 02:21:15

End at: 2018-02-01 02:21:45

Local clock offset: 0.464 ms

Remote clock offset: 0.872 ms

Below is generated by plot.py at 2018-02-01 05:11:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 33.005 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 71.21 Mbit/s

95th percentile per-packet one-way delay: 24.675 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 33.160 ms

Loss rate: 0.18%

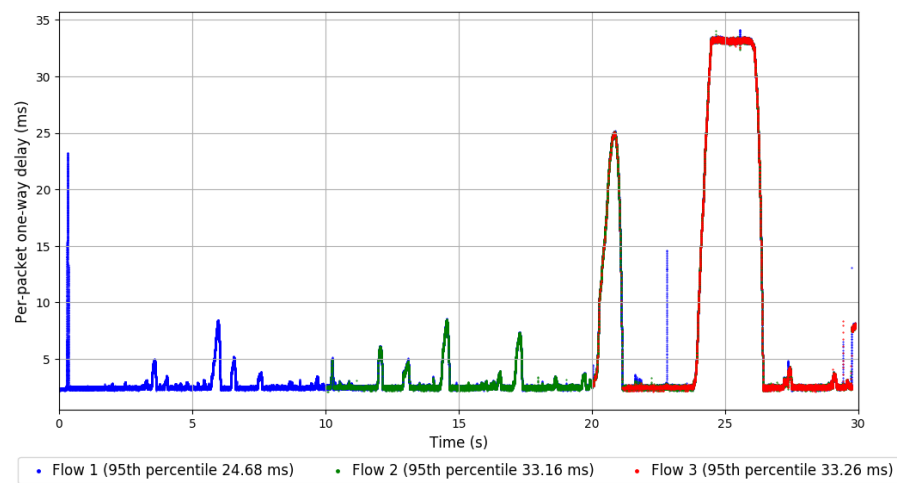
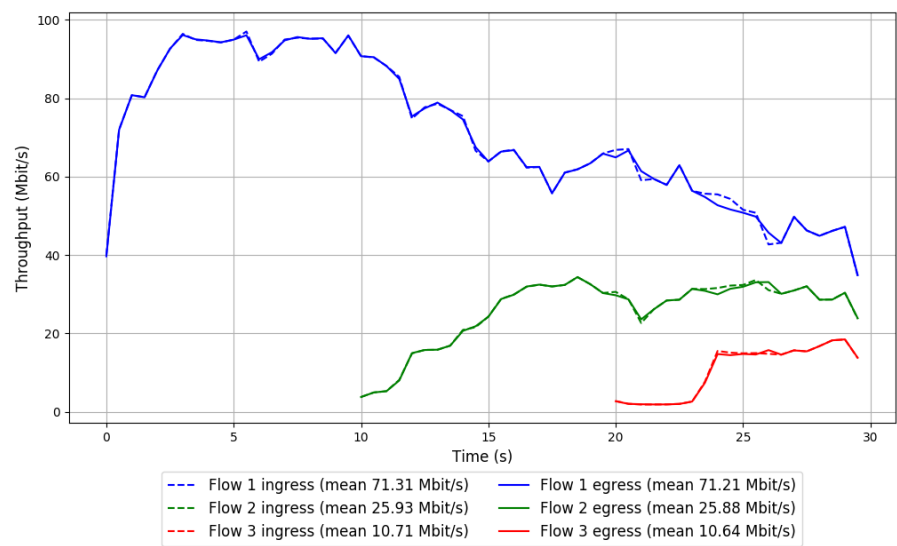
-- Flow 3:

Average throughput: 10.64 Mbit/s

95th percentile per-packet one-way delay: 33.259 ms

Loss rate: 0.58%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-01 02:42:34

End at: 2018-02-01 02:43:04

Local clock offset: 0.271 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2018-02-01 05:11:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 4.402 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.69 Mbit/s

95th percentile per-packet one-way delay: 4.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 5.072 ms

Loss rate: 0.00%

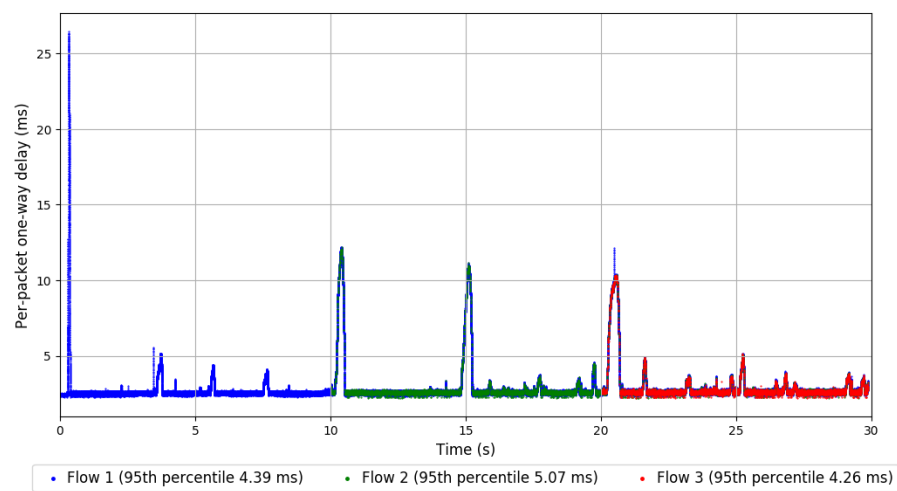
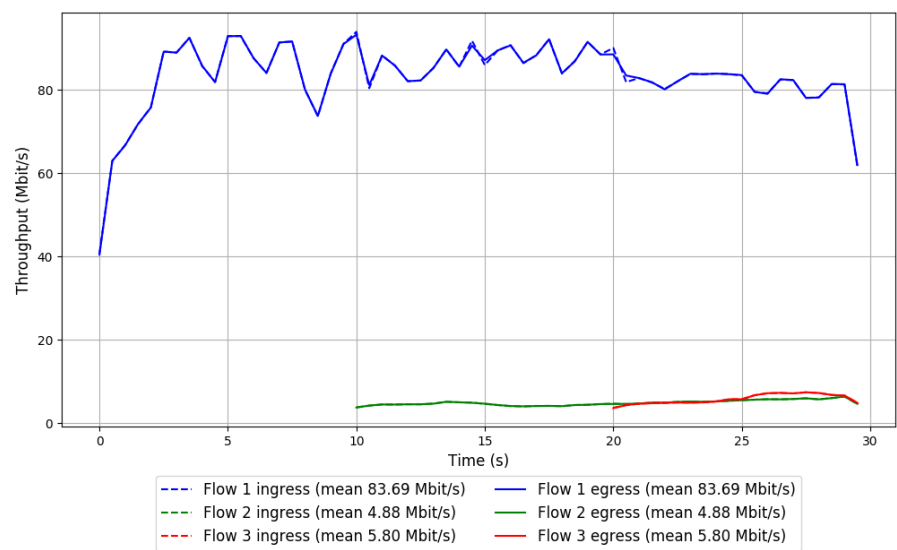
-- Flow 3:

Average throughput: 5.80 Mbit/s

95th percentile per-packet one-way delay: 4.264 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

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

End at: 2018-02-01 03:04:14

Local clock offset: 0.093 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-02-01 05:12:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 4.012 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.92 Mbit/s

95th percentile per-packet one-way delay: 3.640 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 5.020 ms

Loss rate: 0.00%

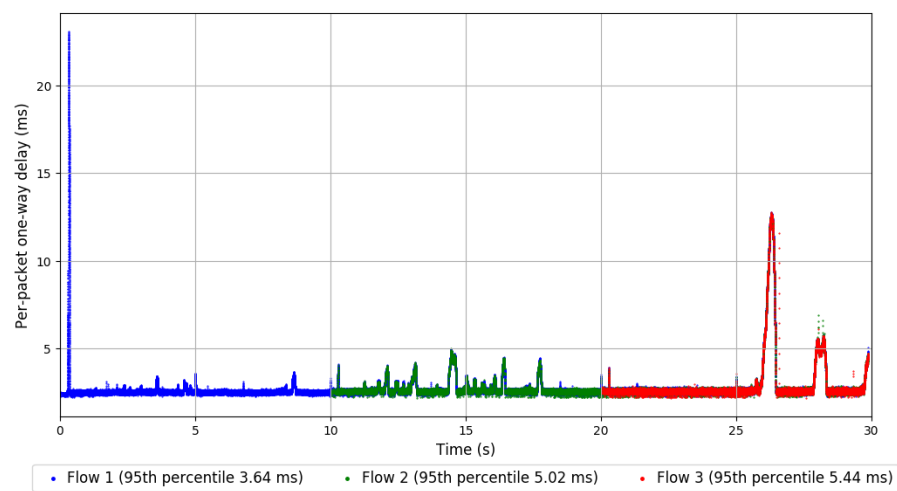
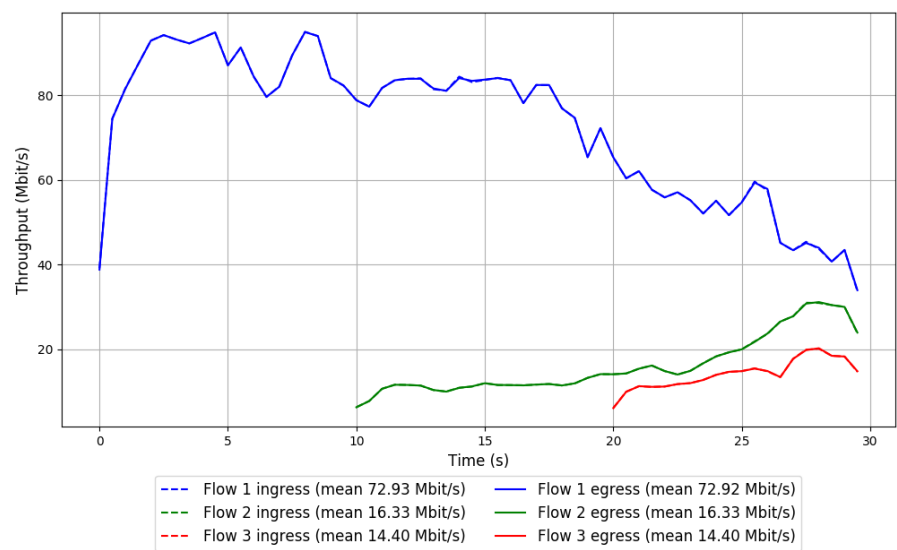
-- Flow 3:

Average throughput: 14.40 Mbit/s

95th percentile per-packet one-way delay: 5.441 ms

Loss rate: 0.00%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-01 03:24:22

End at: 2018-02-01 03:24:52

Local clock offset: -0.009 ms

Remote clock offset: 0.733 ms

Below is generated by plot.py at 2018-02-01 05:12:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 4.130 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.52 Mbit/s

95th percentile per-packet one-way delay: 3.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 4.522 ms

Loss rate: 0.00%

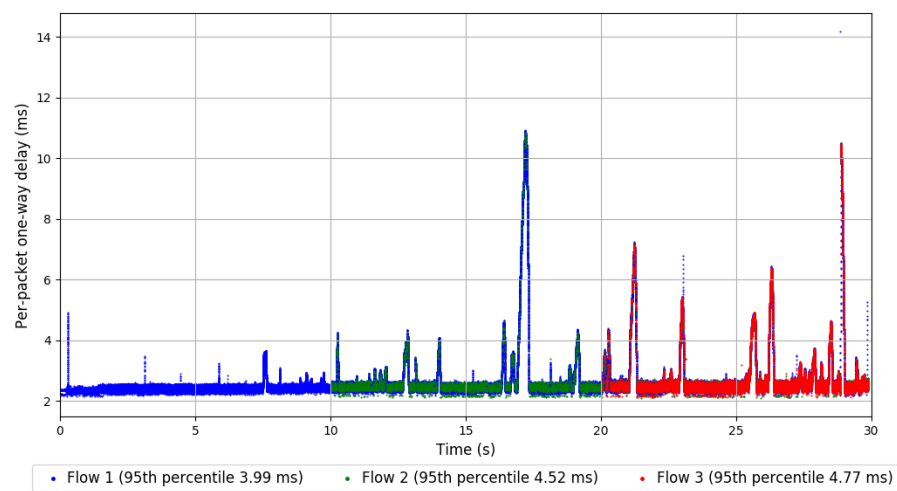
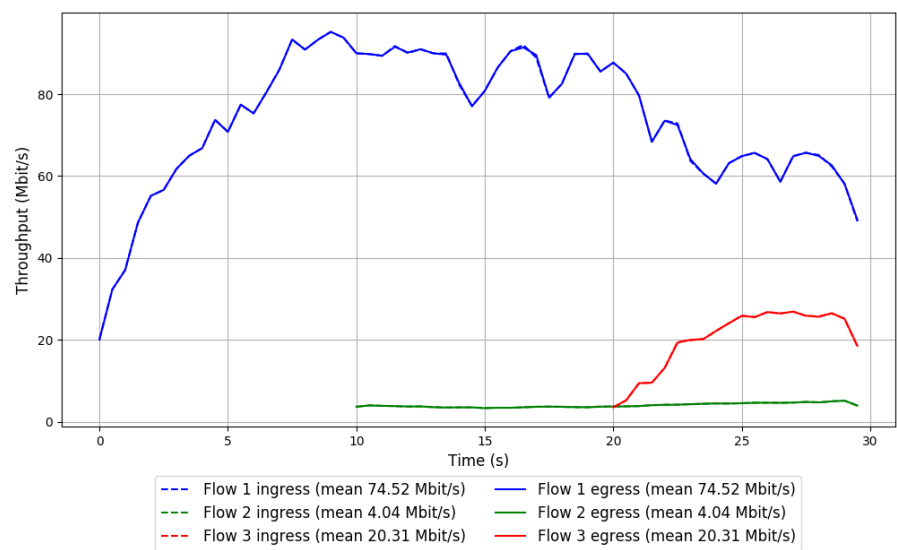
-- Flow 3:

Average throughput: 20.31 Mbit/s

95th percentile per-packet one-way delay: 4.767 ms

Loss rate: 0.00%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-01 03:44:55

End at: 2018-02-01 03:45:25

Local clock offset: -0.155 ms

Remote clock offset: 1.143 ms

Below is generated by plot.py at 2018-02-01 05:12:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.58 Mbit/s

95th percentile per-packet one-way delay: 7.856 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 6.756 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: 9.660 ms

Loss rate: 0.00%

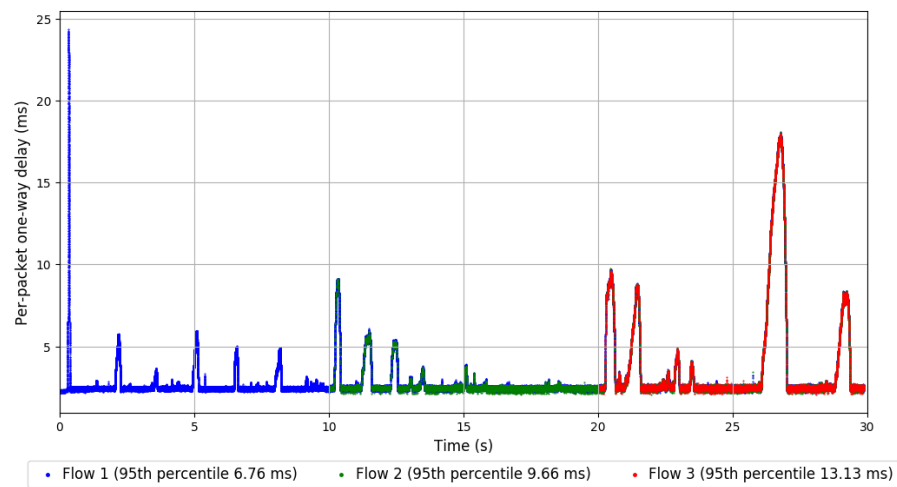
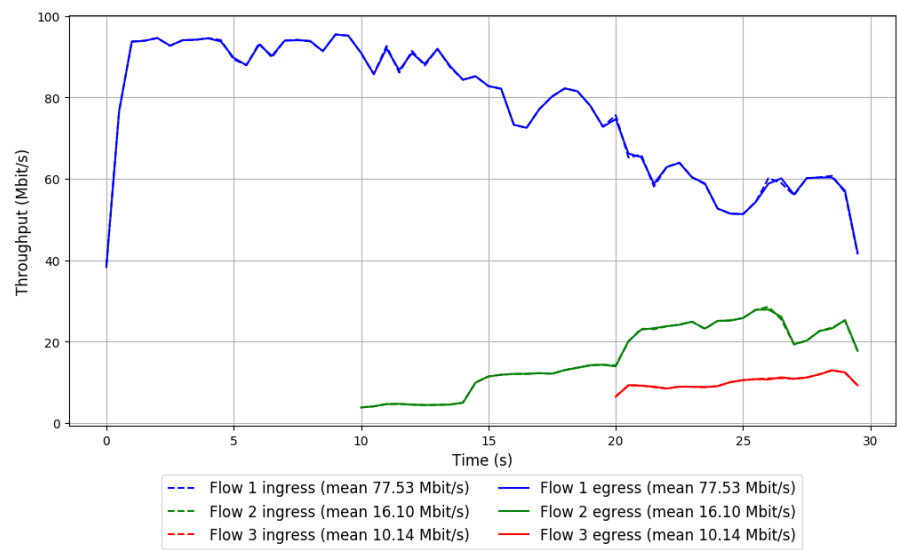
-- Flow 3:

Average throughput: 10.14 Mbit/s

95th percentile per-packet one-way delay: 13.130 ms

Loss rate: 0.00%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-01 04:05:29

End at: 2018-02-01 04:05:59

Local clock offset: -0.284 ms

Remote clock offset: 1.685 ms

Below is generated by plot.py at 2018-02-01 05:12:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 27.609 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 68.73 Mbit/s

95th percentile per-packet one-way delay: 20.576 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 33.107 ms

Loss rate: 0.28%

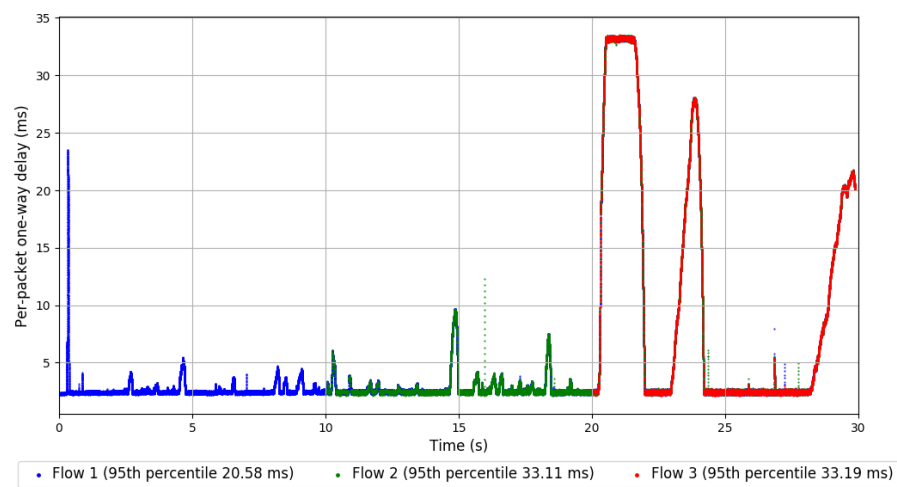
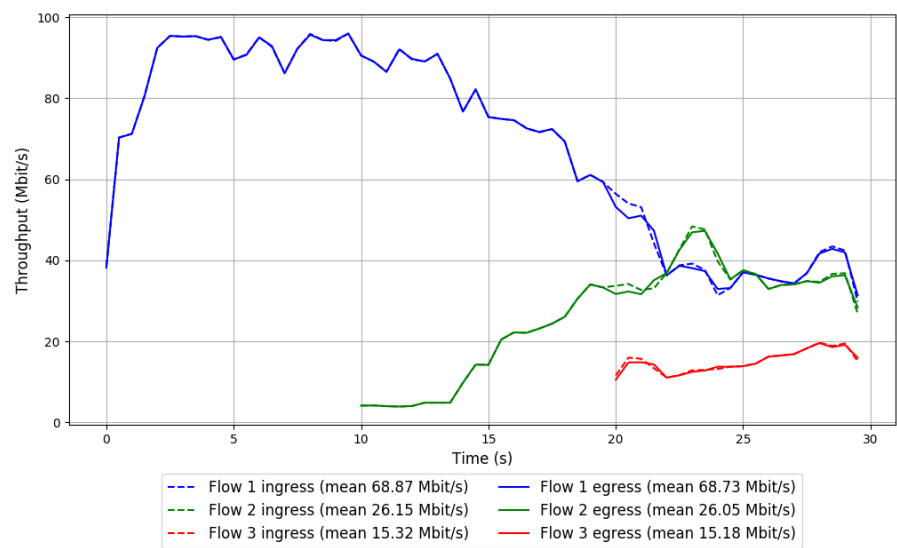
-- Flow 3:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 33.193 ms

Loss rate: 0.71%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-01 04:26:03

End at: 2018-02-01 04:26:33

Local clock offset: -0.328 ms

Remote clock offset: 2.018 ms

Below is generated by plot.py at 2018-02-01 05:12:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 23.156 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 64.32 Mbit/s

95th percentile per-packet one-way delay: 17.810 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 28.20 Mbit/s

95th percentile per-packet one-way delay: 31.413 ms

Loss rate: 0.06%

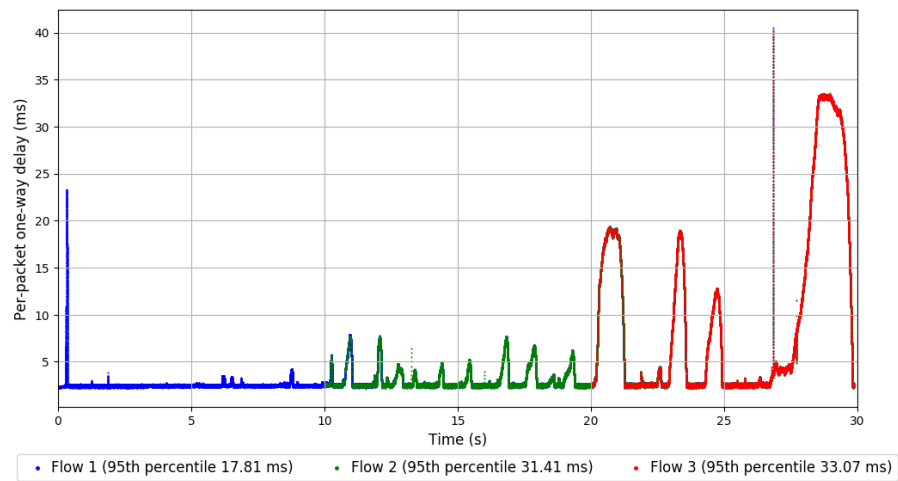
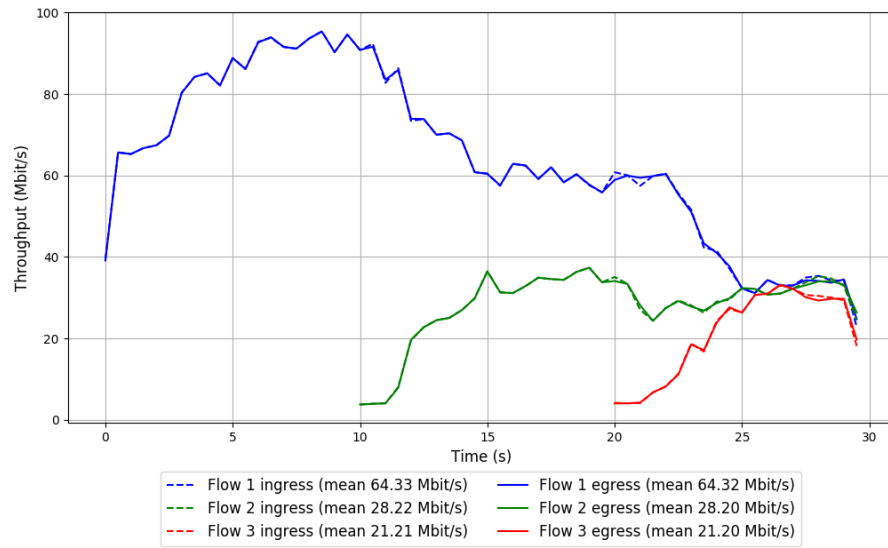
-- Flow 3:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 33.071 ms

Loss rate: 0.07%

Run 10: Report of PCC — Data Link

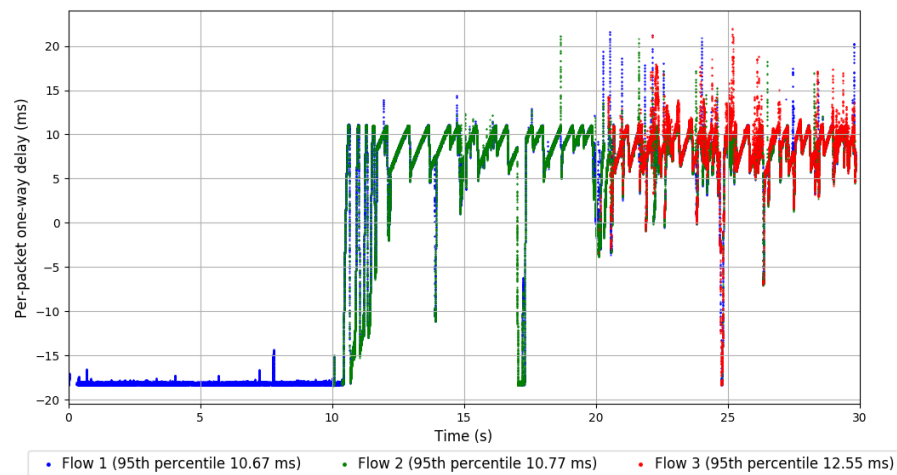
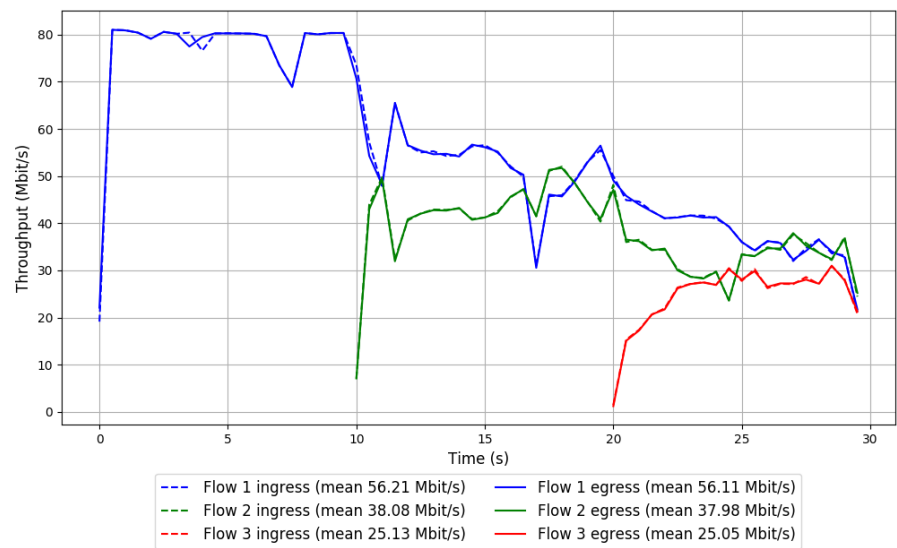


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-01 01:23:22
End at: 2018-02-01 01:23:52
Local clock offset: 0.6 ms
Remote clock offset: -18.615 ms

Below is generated by plot.py at 2018-02-01 05:12:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 10.765 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 10.669 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 10.768 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 25.05 Mbit/s
95th percentile per-packet one-way delay: 12.551 ms
Loss rate: 0.21%

Run 1: Report of QUIC Cubic — Data Link

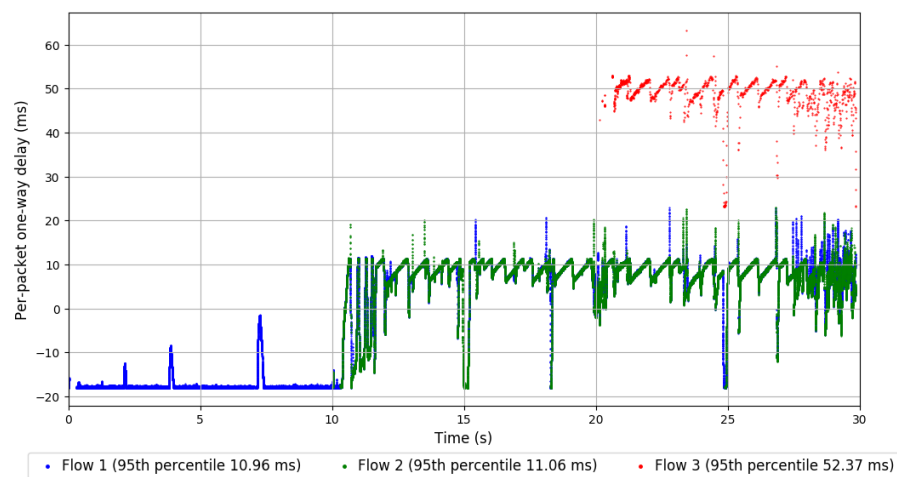
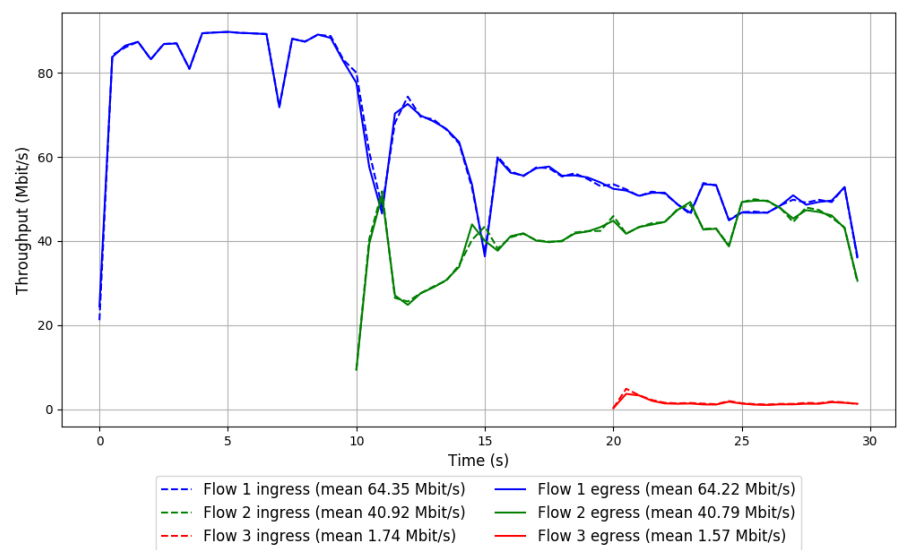


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-01 01:45:12
End at: 2018-02-01 01:45:42
Local clock offset: 0.586 ms
Remote clock offset: -18.892 ms

Below is generated by plot.py at 2018-02-01 05:12:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.81 Mbit/s
95th percentile per-packet one-way delay: 11.031 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 10.960 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 11.063 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 52.368 ms
Loss rate: 9.82%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-01 02:06:48

End at: 2018-02-01 02:07:19

Local clock offset: 0.465 ms

Remote clock offset: 1.077 ms

Below is generated by plot.py at 2018-02-01 05:13:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 31.453 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 54.19 Mbit/s

95th percentile per-packet one-way delay: 31.397 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 31.488 ms

Loss rate: 0.15%

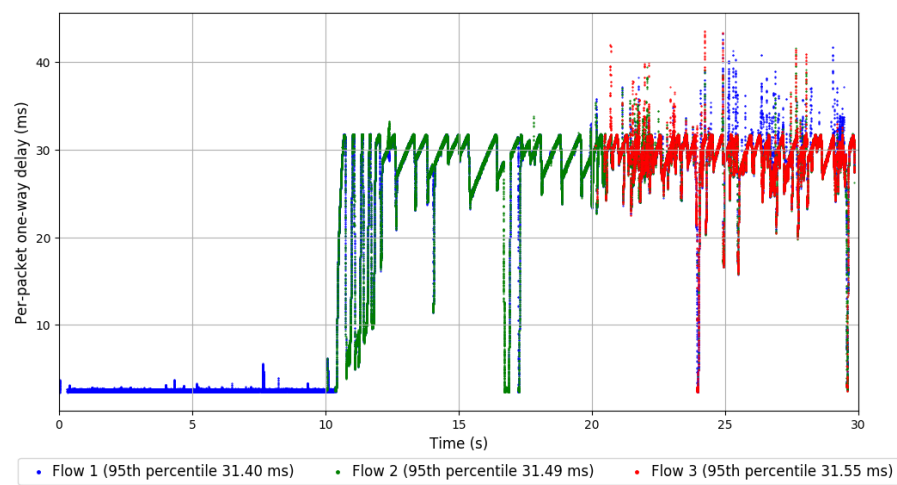
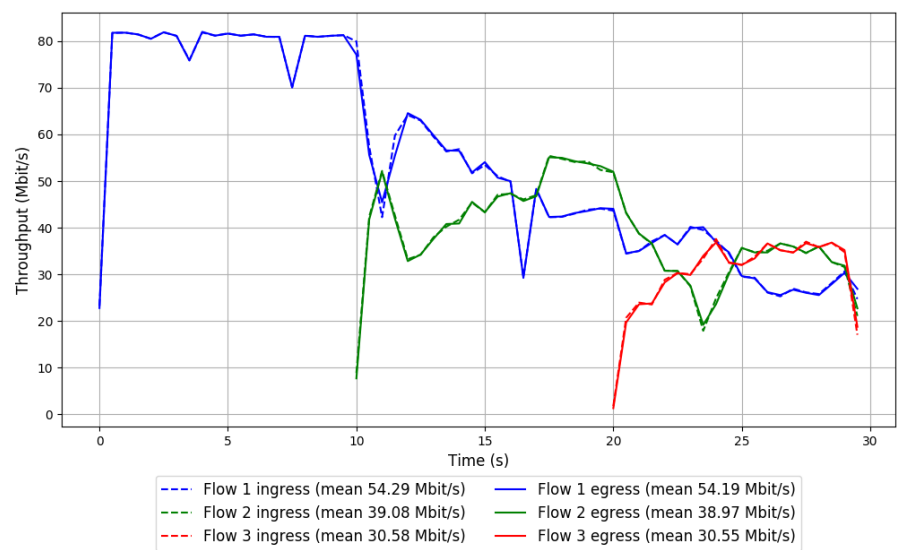
-- Flow 3:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 31.546 ms

Loss rate: 0.14%

Run 3: Report of QUIC Cubic — Data Link

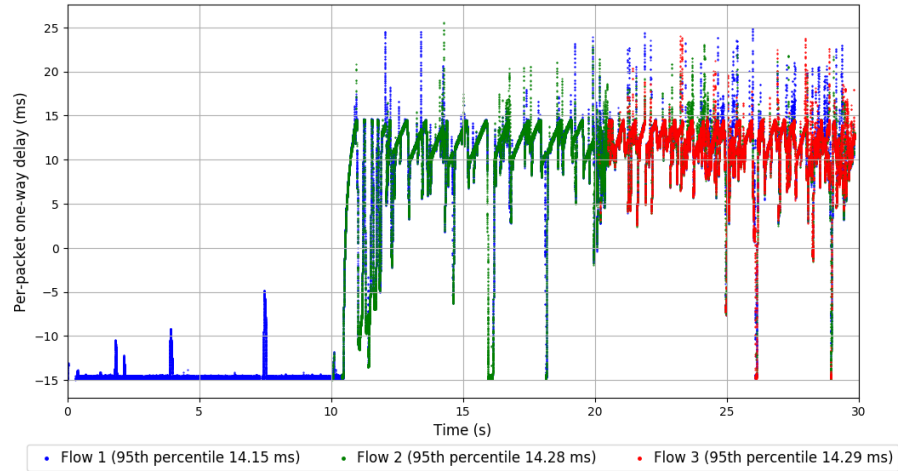
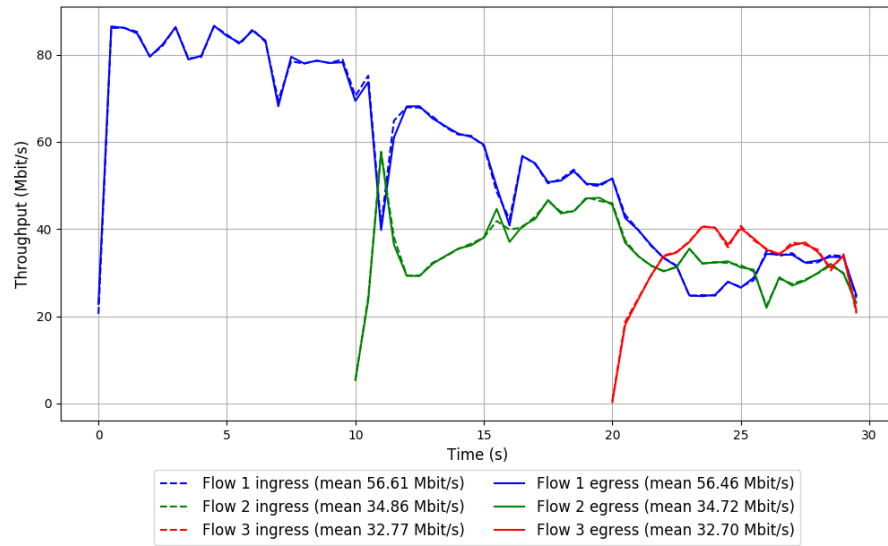


Run 4: Statistics of QUIC Cubic

Start at: 2018-02-01 02:28:26
End at: 2018-02-01 02:28:56
Local clock offset: 0.473 ms
Remote clock offset: -16.273 ms

Below is generated by plot.py at 2018-02-01 05:13:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 14.223 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 14.146 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 34.72 Mbit/s
95th percentile per-packet one-way delay: 14.281 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 14.286 ms
Loss rate: 0.17%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-01 02:49:42

End at: 2018-02-01 02:50:12

Local clock offset: 0.306 ms

Remote clock offset: 0.611 ms

Below is generated by plot.py at 2018-02-01 05:13:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.39 Mbit/s

95th percentile per-packet one-way delay: 31.338 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 56.55 Mbit/s

95th percentile per-packet one-way delay: 31.259 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 31.375 ms

Loss rate: 0.17%

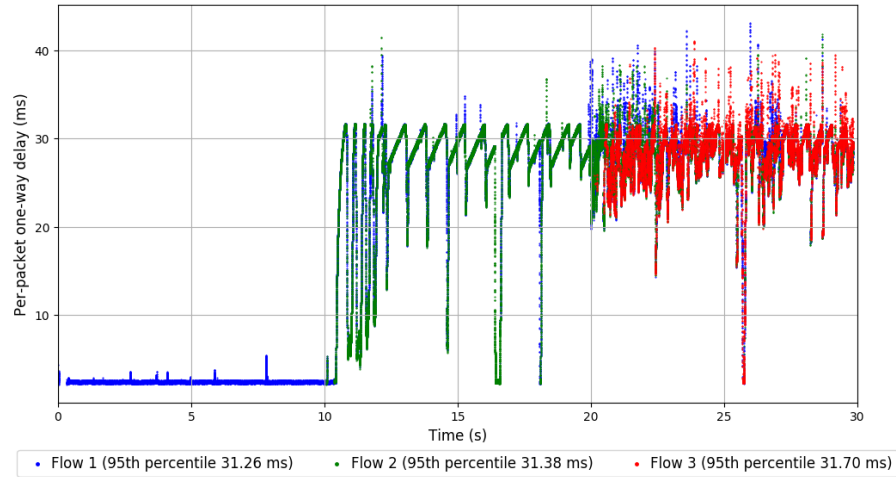
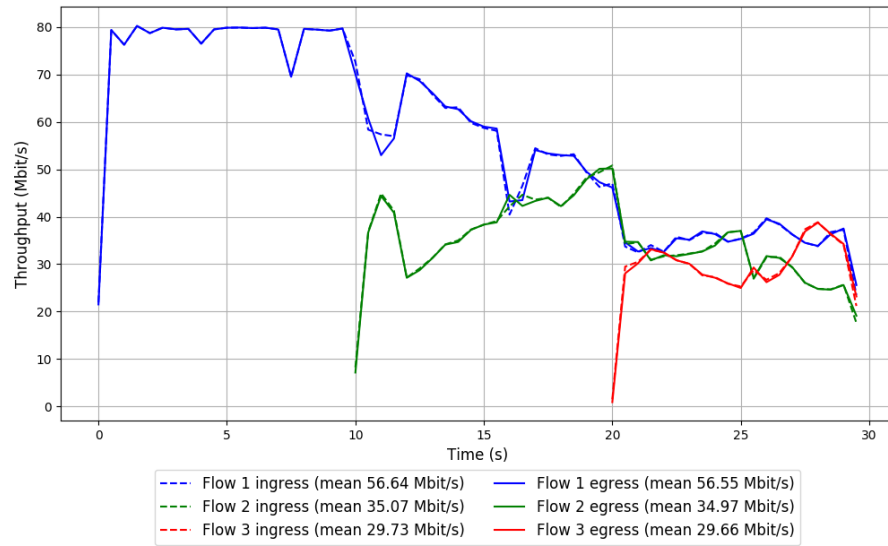
-- Flow 3:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 31.700 ms

Loss rate: 0.20%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-01 03:10:43

End at: 2018-02-01 03:11:13

Local clock offset: 0.052 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-02-01 05:14:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.15 Mbit/s

95th percentile per-packet one-way delay: 31.386 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 31.321 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 34.01 Mbit/s

95th percentile per-packet one-way delay: 31.455 ms

Loss rate: 0.26%

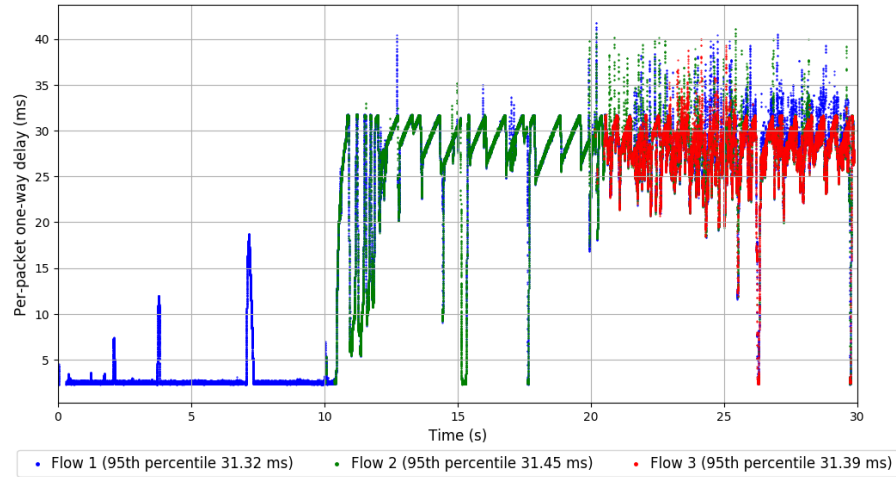
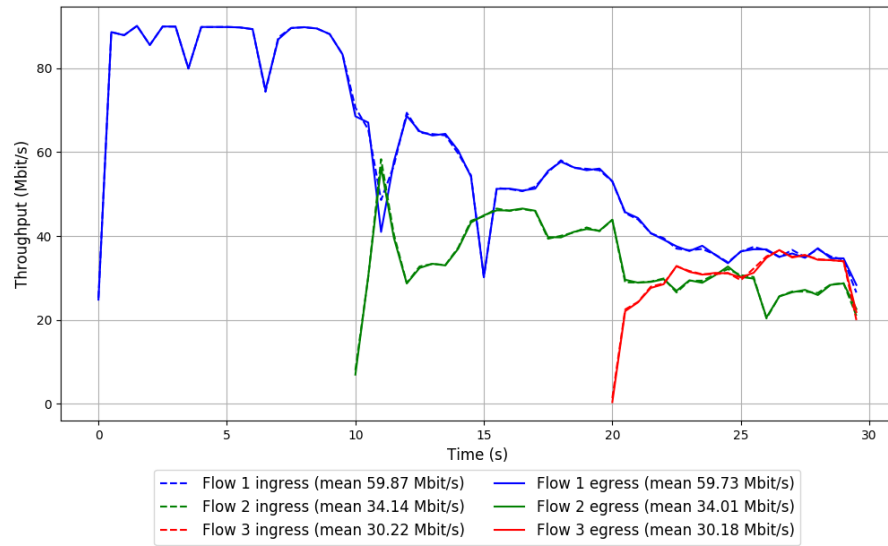
-- Flow 3:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 31.395 ms

Loss rate: 0.16%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-01 03:31:17

End at: 2018-02-01 03:31:47

Local clock offset: -0.052 ms

Remote clock offset: 0.79 ms

Below is generated by plot.py at 2018-02-01 05:14:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 31.334 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 59.43 Mbit/s

95th percentile per-packet one-way delay: 31.253 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 31.418 ms

Loss rate: 0.24%

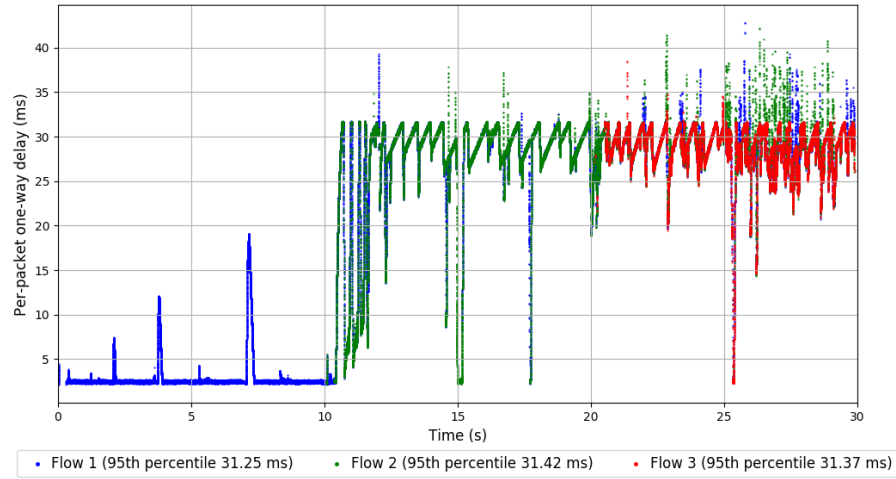
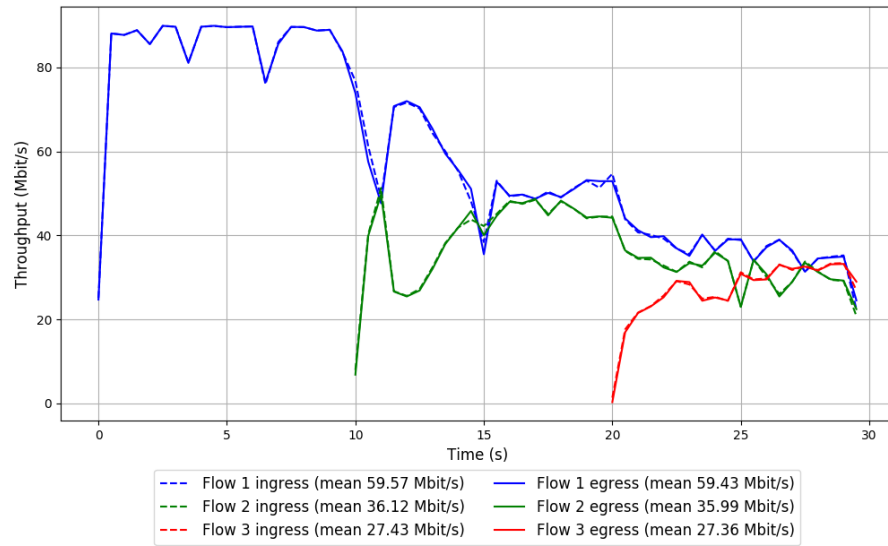
-- Flow 3:

Average throughput: 27.36 Mbit/s

95th percentile per-packet one-way delay: 31.370 ms

Loss rate: 0.27%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-01 03:51:50

End at: 2018-02-01 03:52:20

Local clock offset: -0.199 ms

Remote clock offset: 1.471 ms

Below is generated by plot.py at 2018-02-01 05:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 31.301 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 31.246 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 37.30 Mbit/s

95th percentile per-packet one-way delay: 31.331 ms

Loss rate: 0.21%

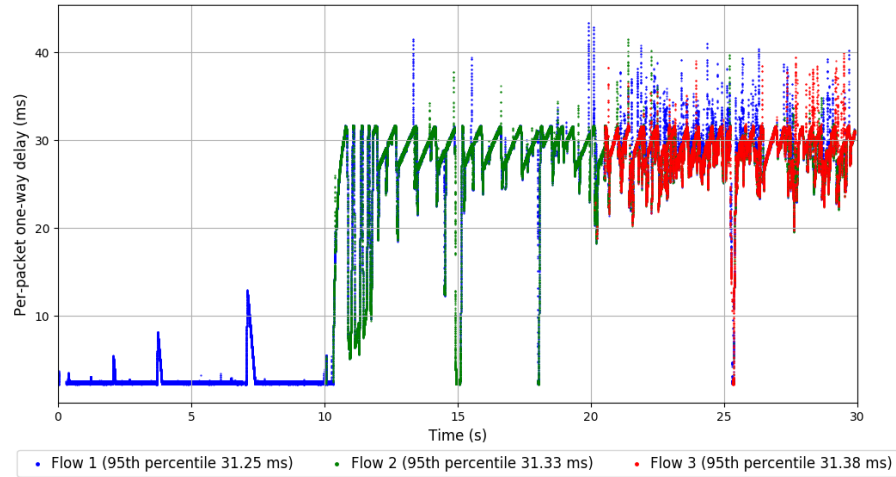
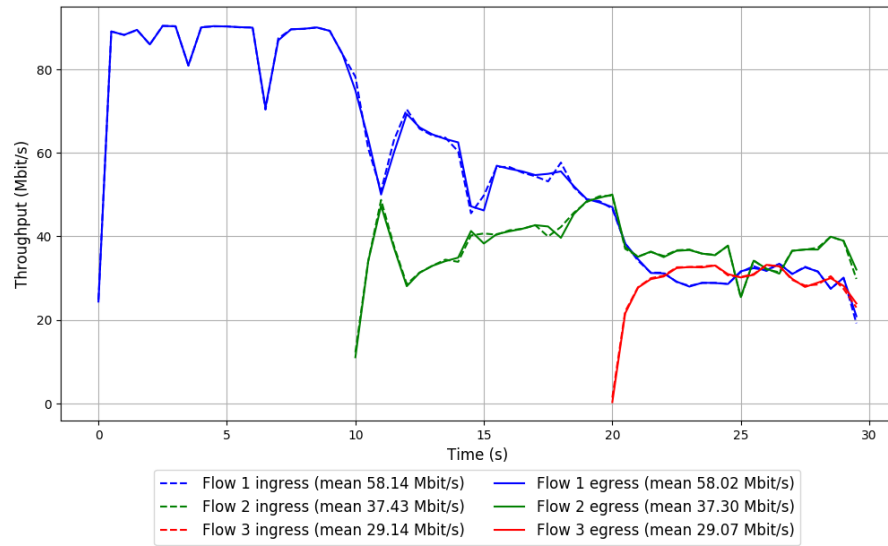
-- Flow 3:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 31.380 ms

Loss rate: 0.16%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-01 04:12:25

End at: 2018-02-01 04:12:55

Local clock offset: -0.3 ms

Remote clock offset: 1.818 ms

Below is generated by plot.py at 2018-02-01 05:14:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 31.367 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 31.257 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 31.393 ms

Loss rate: 0.19%

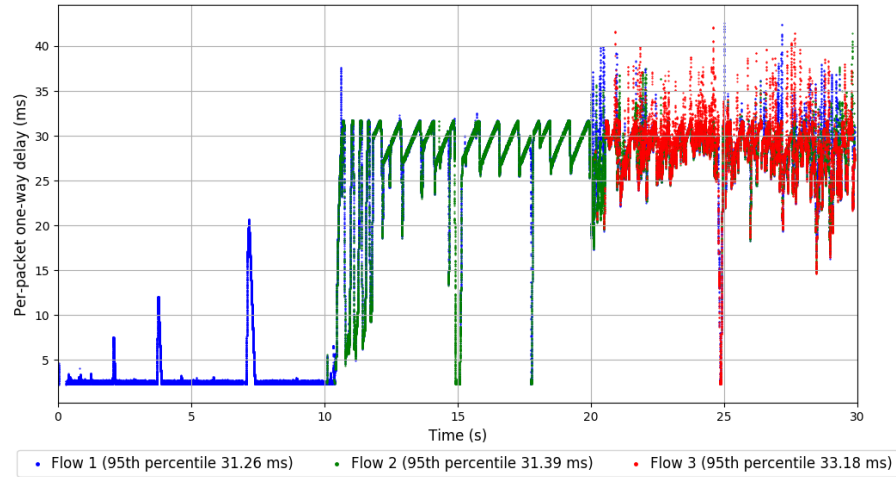
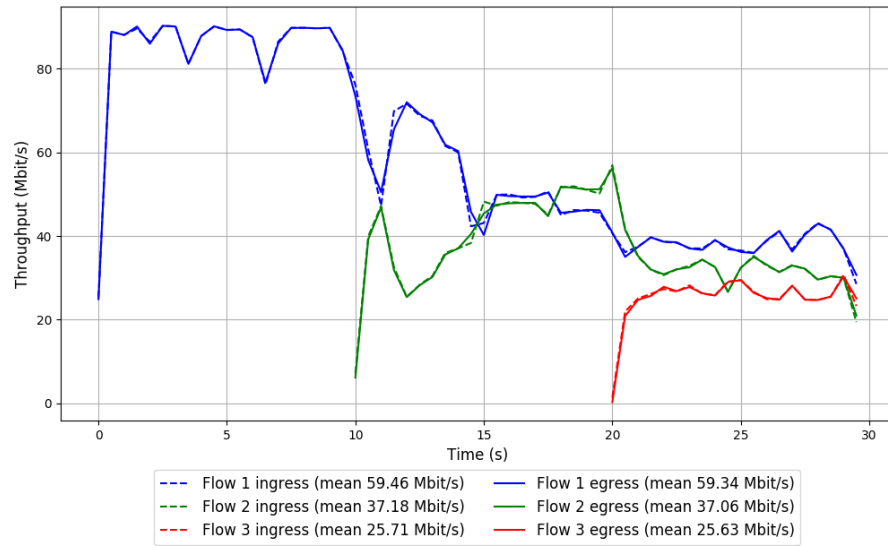
-- Flow 3:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 33.179 ms

Loss rate: 0.32%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-01 04:32:59

End at: 2018-02-01 04:33:29

Local clock offset: -0.34 ms

Remote clock offset: 1.996 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 31.323 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 31.195 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 35.44 Mbit/s

95th percentile per-packet one-way delay: 31.451 ms

Loss rate: 0.20%

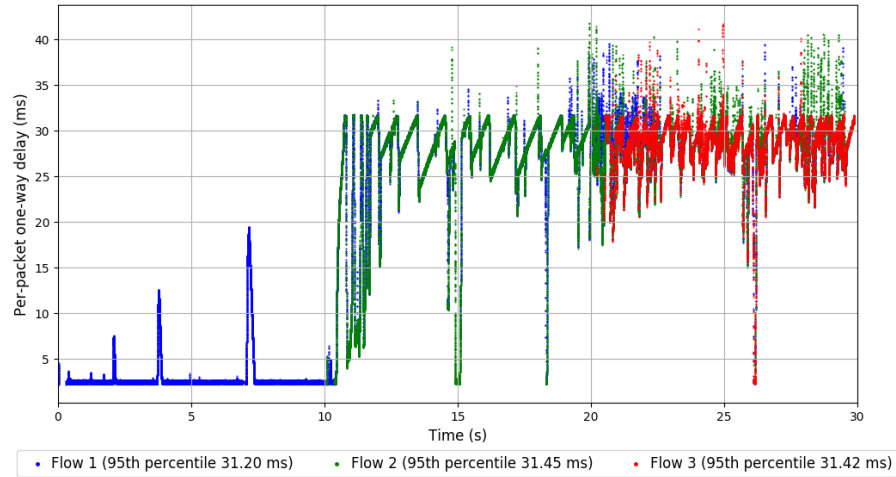
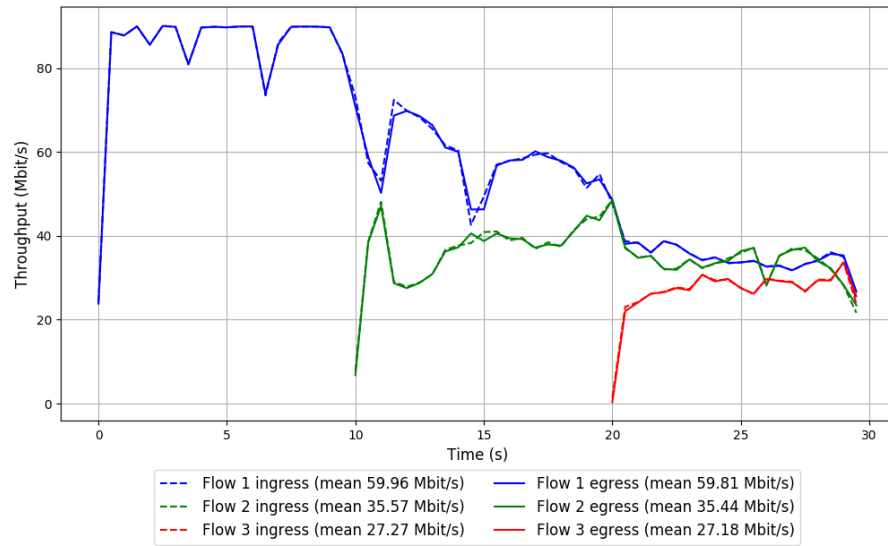
-- Flow 3:

Average throughput: 27.18 Mbit/s

95th percentile per-packet one-way delay: 31.421 ms

Loss rate: 0.28%

Run 10: Report of QUIC Cubic — Data Link

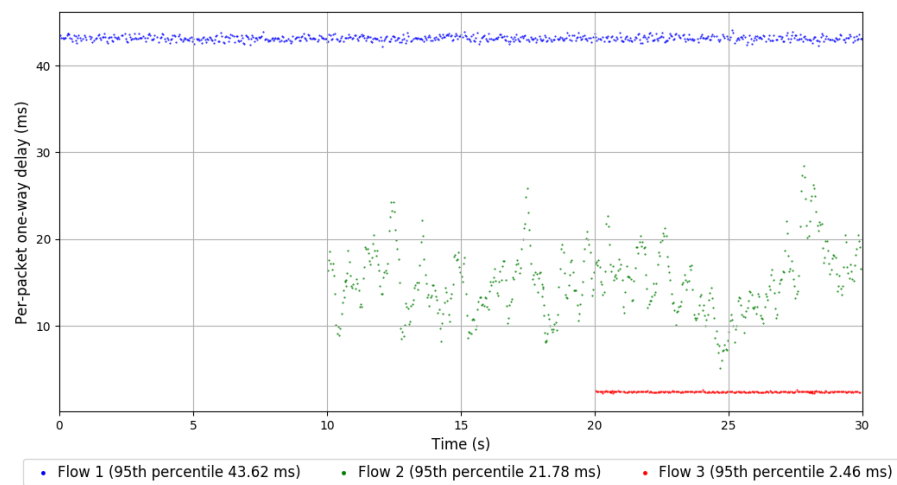
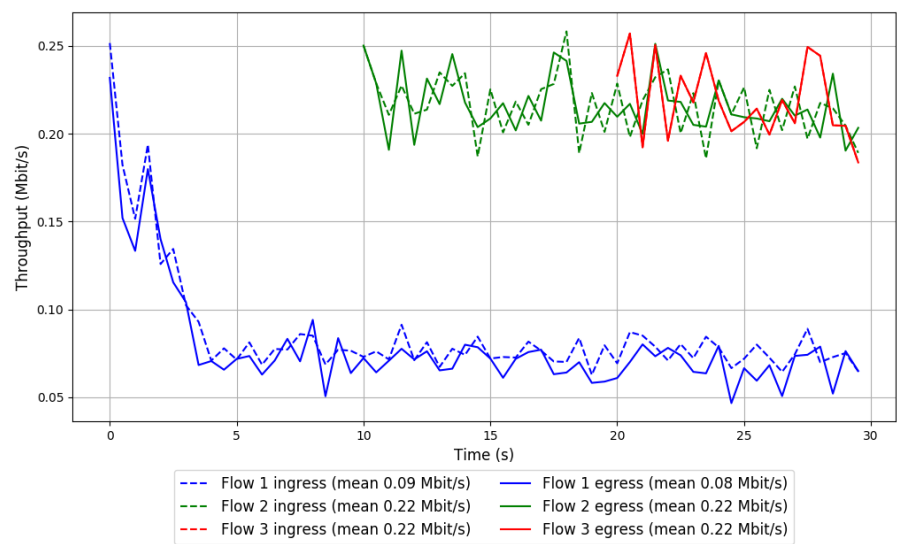


```
Run 1: Statistics of SReAM

Start at: 2018-02-01 01:28:12
End at: 2018-02-01 01:28:42
Local clock offset: 0.638 ms
Remote clock offset: 1.918 ms

# Below is generated by plot.py at 2018-02-01 05:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 43.511 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 43.616 ms
Loss rate: 8.42%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 21.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.459 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-02-01 01:49:59

End at: 2018-02-01 01:50:29

Local clock offset: 0.58 ms

Remote clock offset: 1.266 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.508 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.307 ms

Loss rate: 0.00%

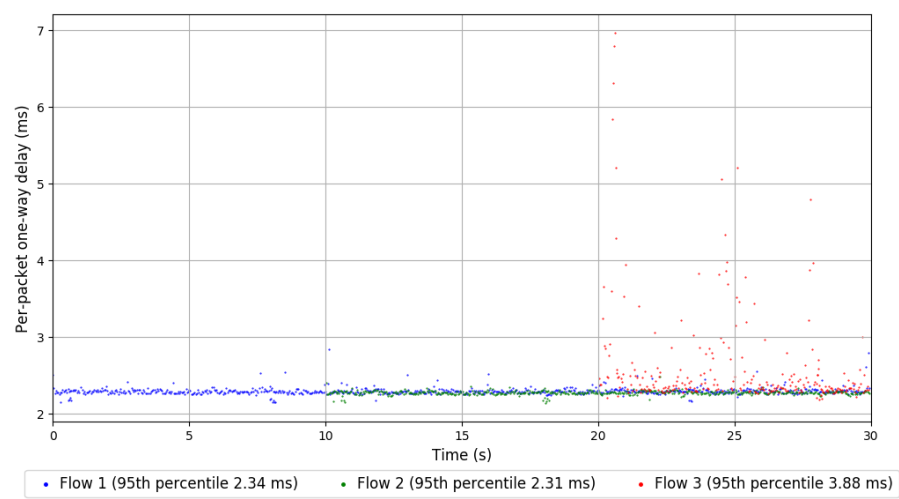
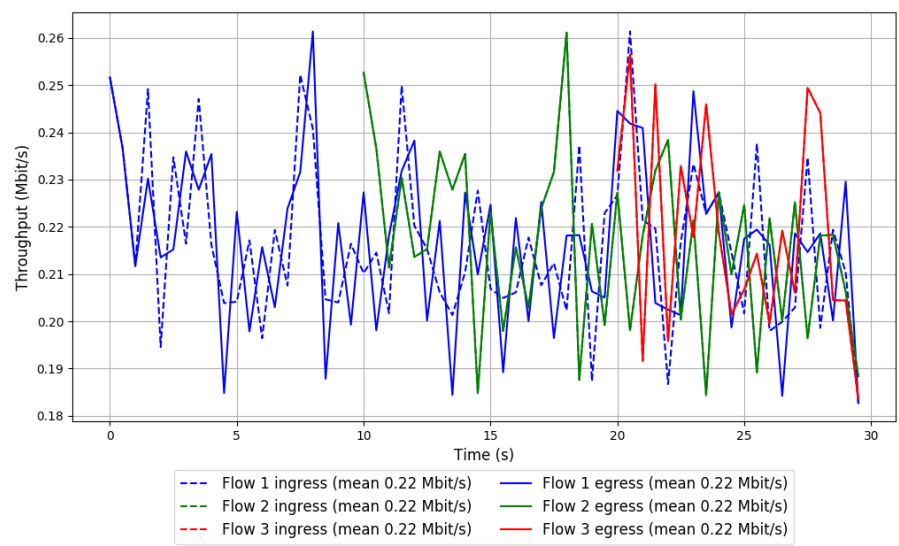
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.875 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

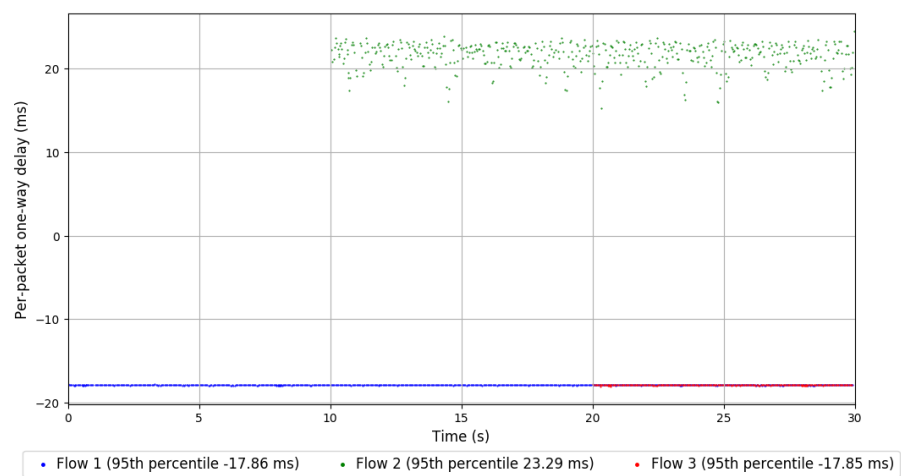
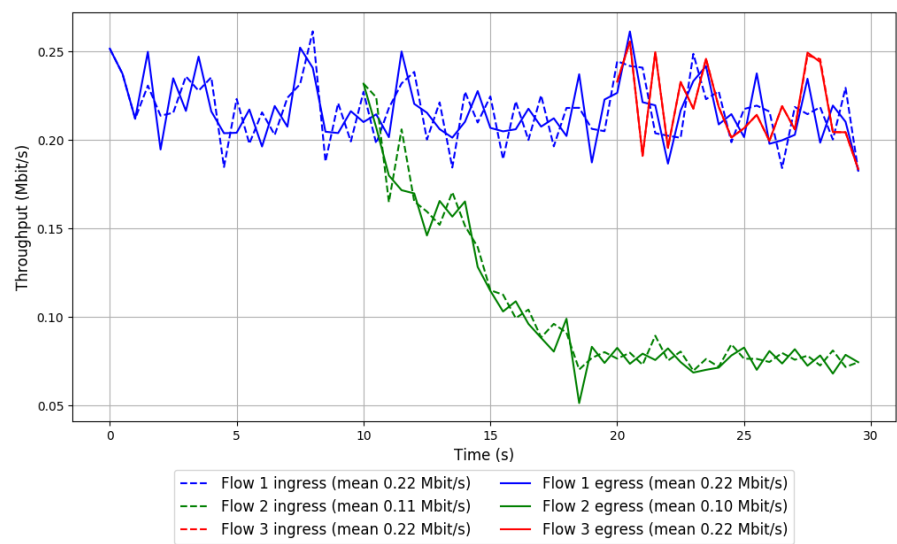


Run 3: Statistics of SCReAM

Start at: 2018-02-01 02:11:34
End at: 2018-02-01 02:12:04
Local clock offset: 0.542 ms
Remote clock offset: -19.219 ms

Below is generated by plot.py at 2018-02-01 05:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 22.947 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.856 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 23.286 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -17.846 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-01 02:33:10

End at: 2018-02-01 02:33:40

Local clock offset: 0.346 ms

Remote clock offset: 0.823 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.484 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.486 ms

Loss rate: 0.00%

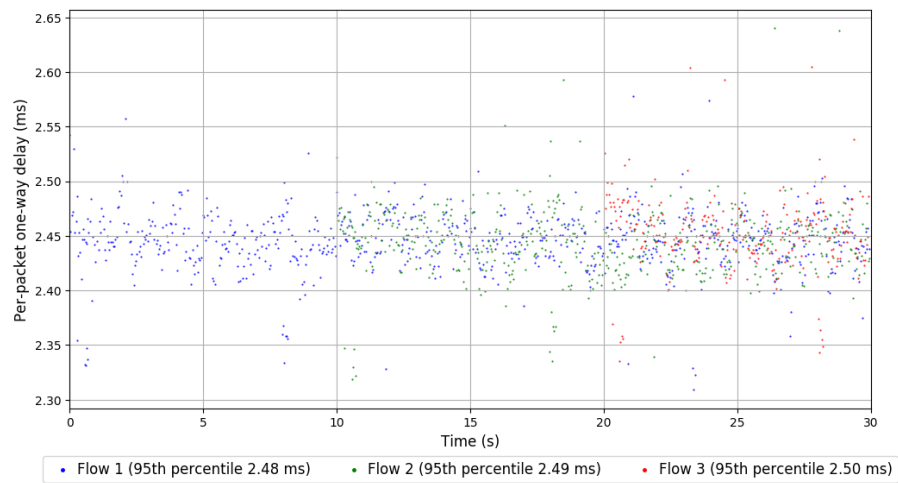
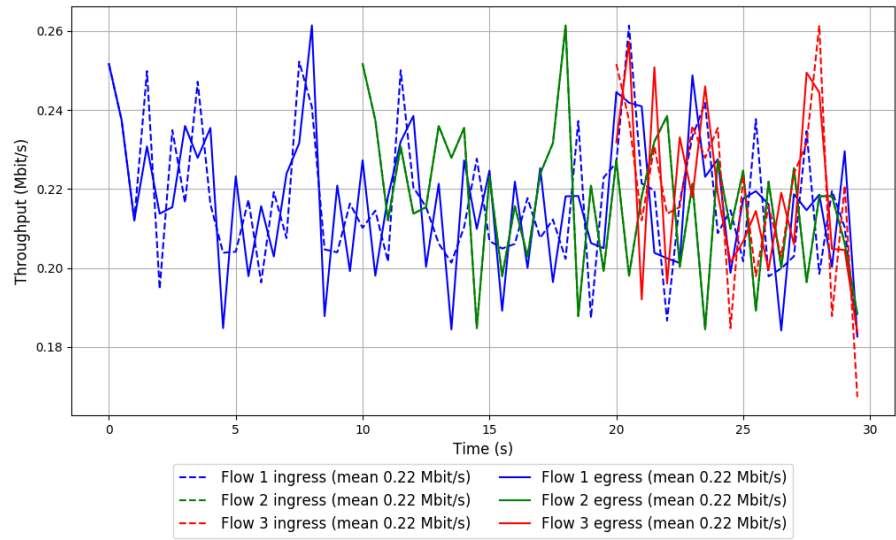
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.499 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-01 02:54:24

End at: 2018-02-01 02:54:54

Local clock offset: 0.208 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

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

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.372 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.378 ms

Loss rate: 0.00%

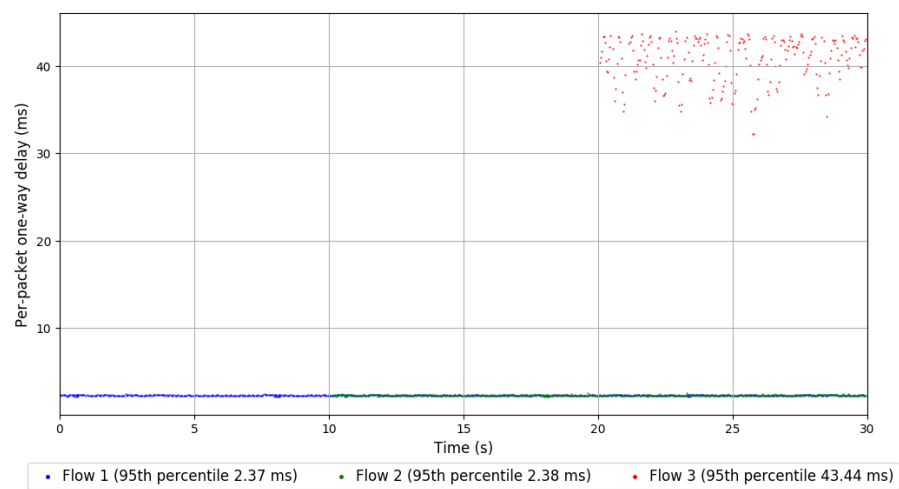
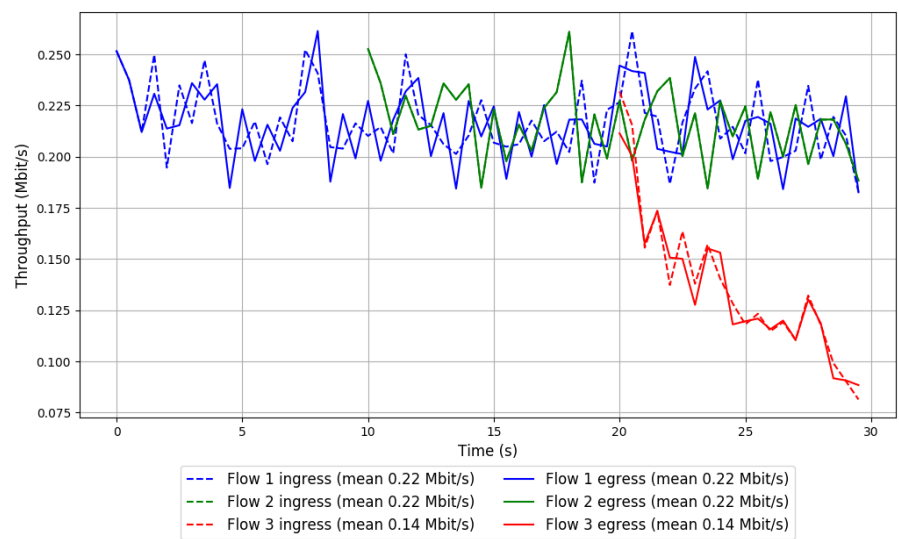
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 43.444 ms

Loss rate: 1.59%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-01 03:15:17

End at: 2018-02-01 03:15:47

Local clock offset: -0.003 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.468 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.467 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.469 ms

Loss rate: 0.00%

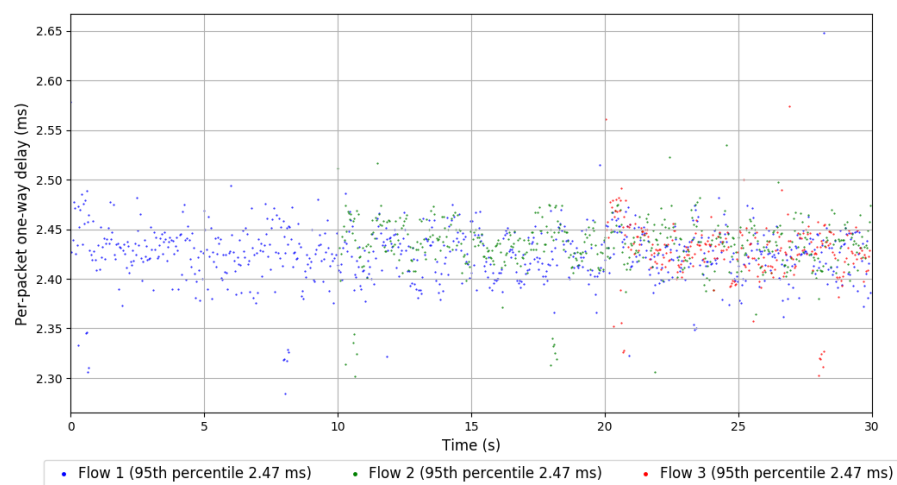
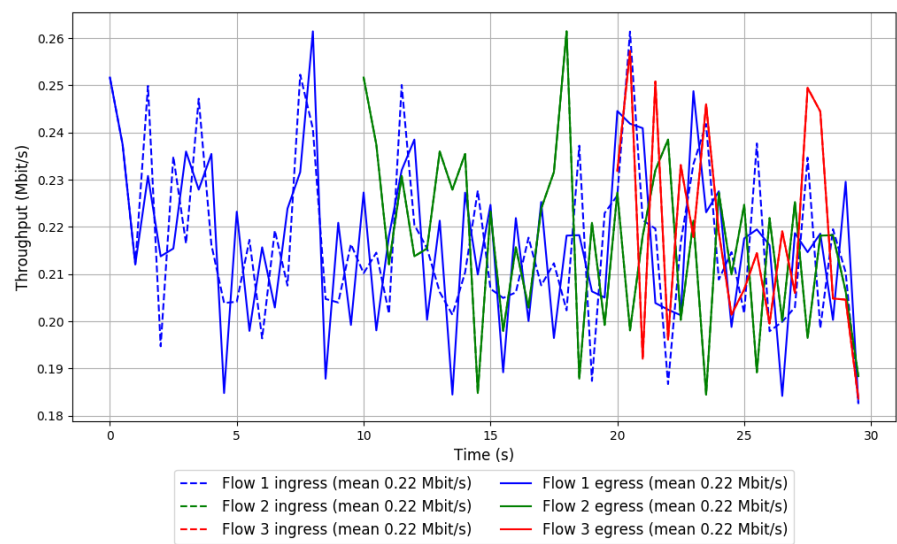
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.469 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

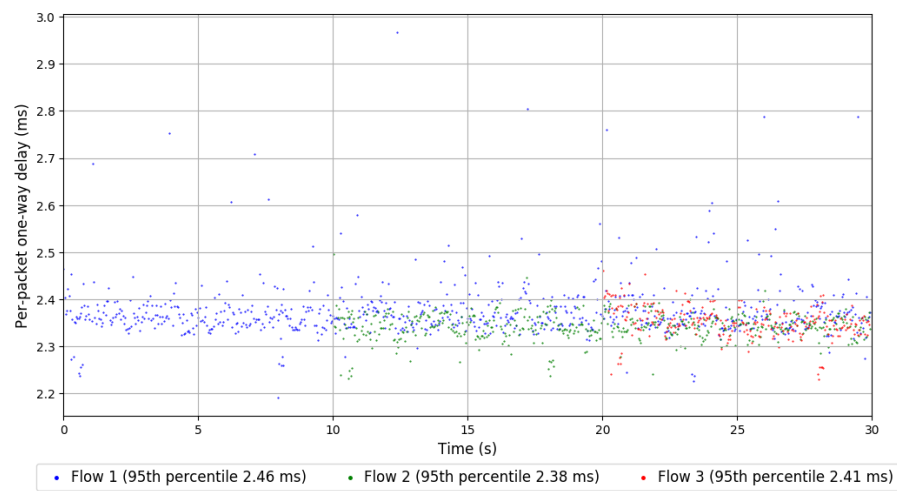
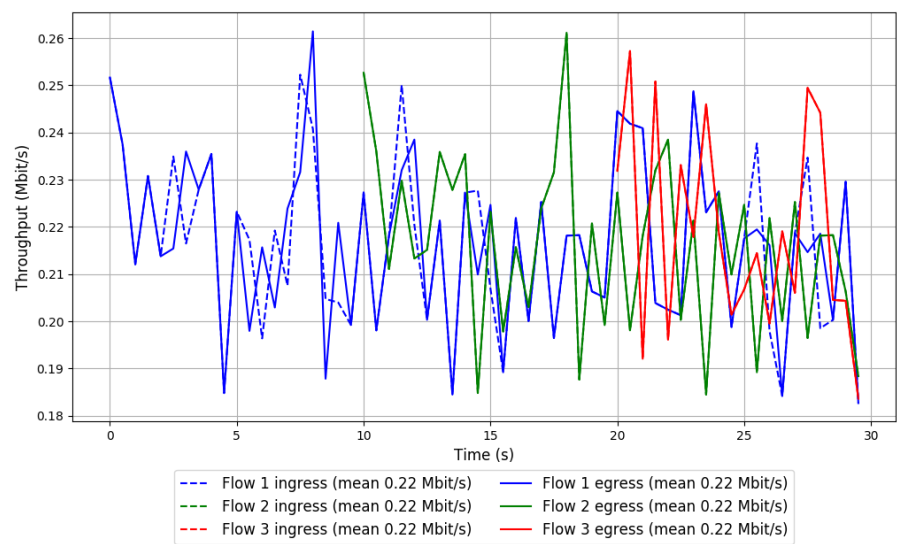


Run 7: Statistics of SReAM

Start at: 2018-02-01 03:35:50
End at: 2018-02-01 03:36:20
Local clock offset: -0.105 ms
Remote clock offset: 0.781 ms

Below is generated by plot.py at 2018-02-01 05:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.383 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.408 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-02-01 03:56:24

End at: 2018-02-01 03:56:54

Local clock offset: -0.303 ms

Remote clock offset: 1.599 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.425 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.422 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.424 ms

Loss rate: 0.00%

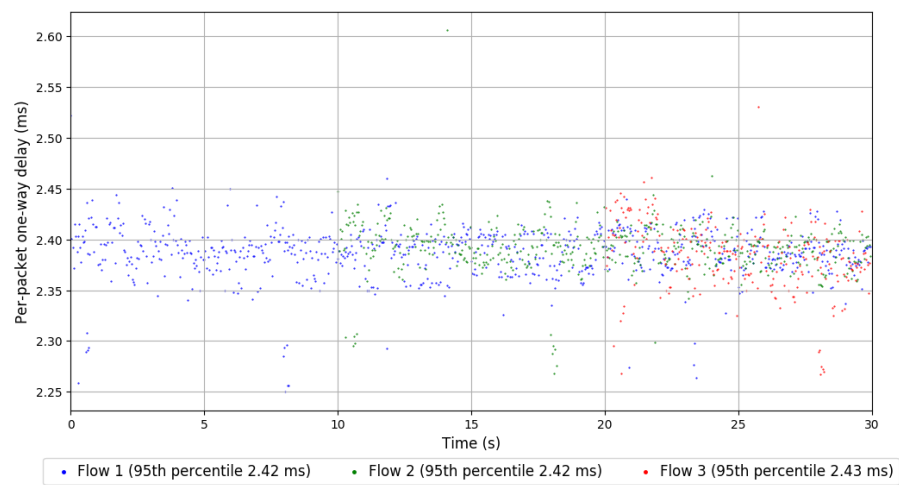
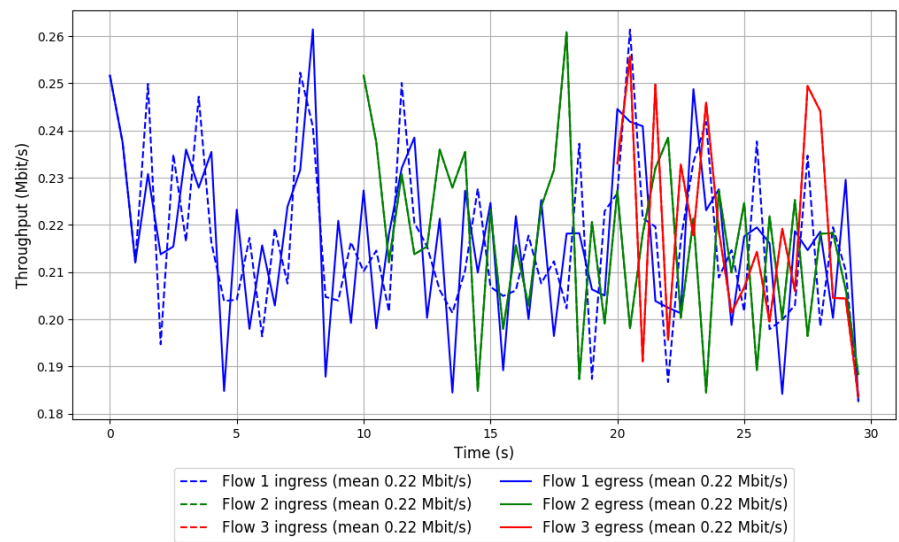
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.431 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

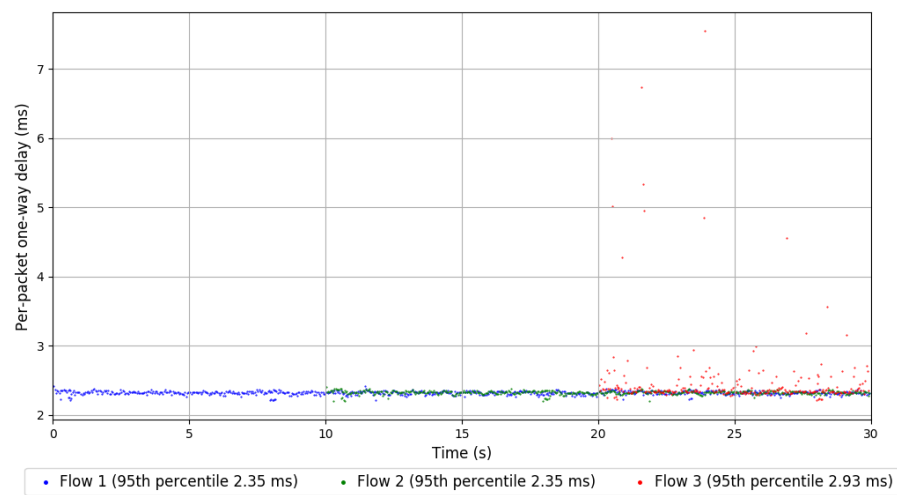
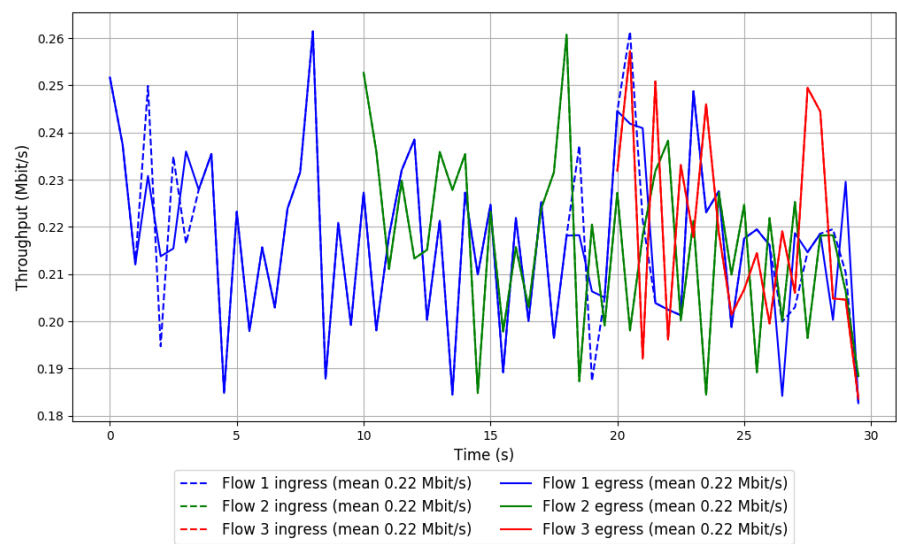


Run 9: Statistics of SReAM

Start at: 2018-02-01 04:16:58
End at: 2018-02-01 04:17:28
Local clock offset: -0.291 ms
Remote clock offset: 1.883 ms

```
# Below is generated by plot.py at 2018-02-01 05:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.933 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-01 04:37:32

End at: 2018-02-01 04:38:02

Local clock offset: -0.353 ms

Remote clock offset: 1.918 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.337 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.333 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

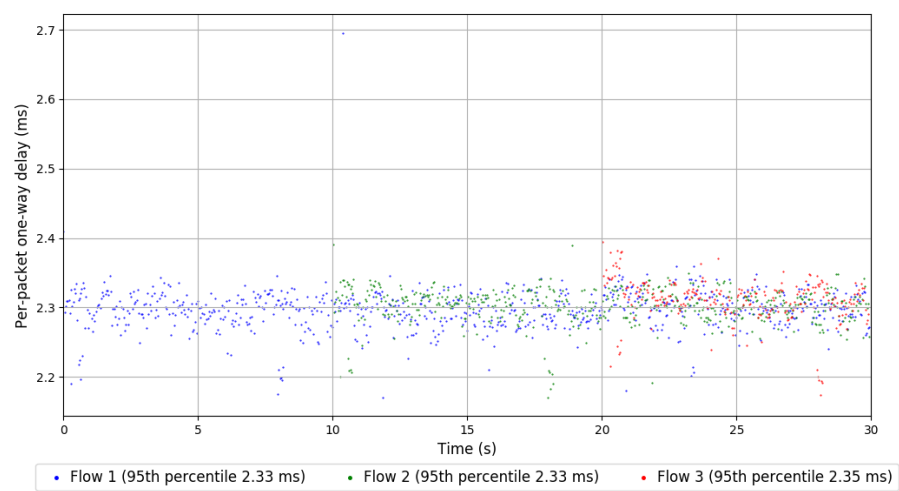
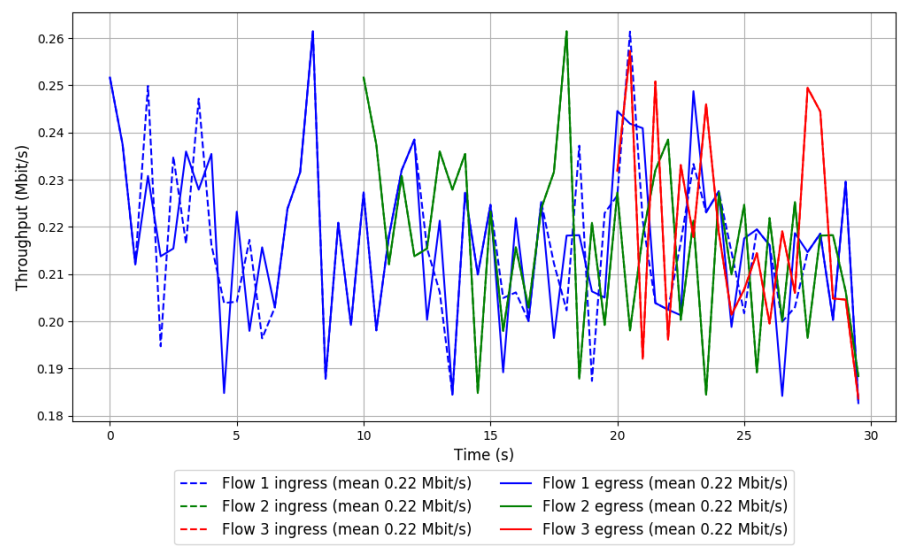
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.352 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

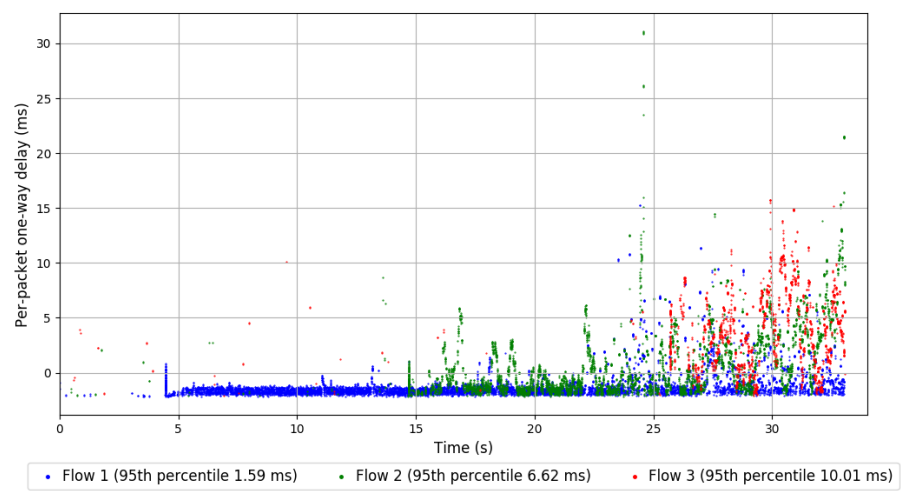
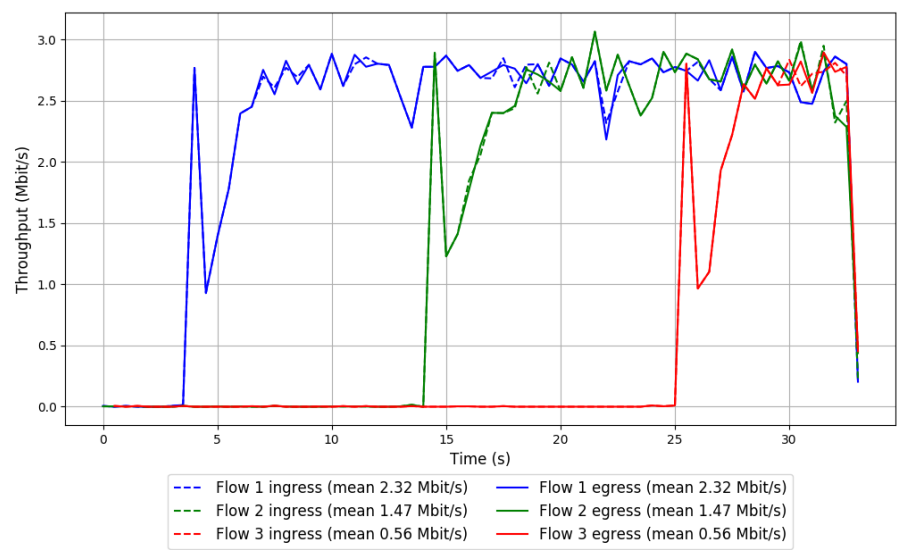


Run 1: Statistics of WebRTC media

Start at: 2018-02-01 01:13:47
End at: 2018-02-01 01:14:17
Local clock offset: 0.544 ms
Remote clock offset: -2.979 ms

Below is generated by plot.py at 2018-02-01 05:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 6.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 1.594 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 6.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 10.005 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-01 01:35:28

End at: 2018-02-01 01:35:58

Local clock offset: 0.551 ms

Remote clock offset: 1.714 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 6.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 6.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 6.112 ms

Loss rate: 0.00%

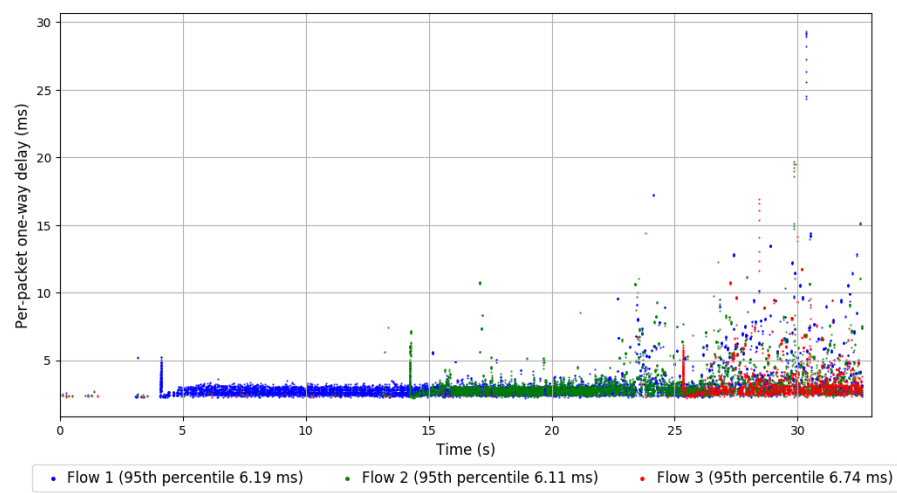
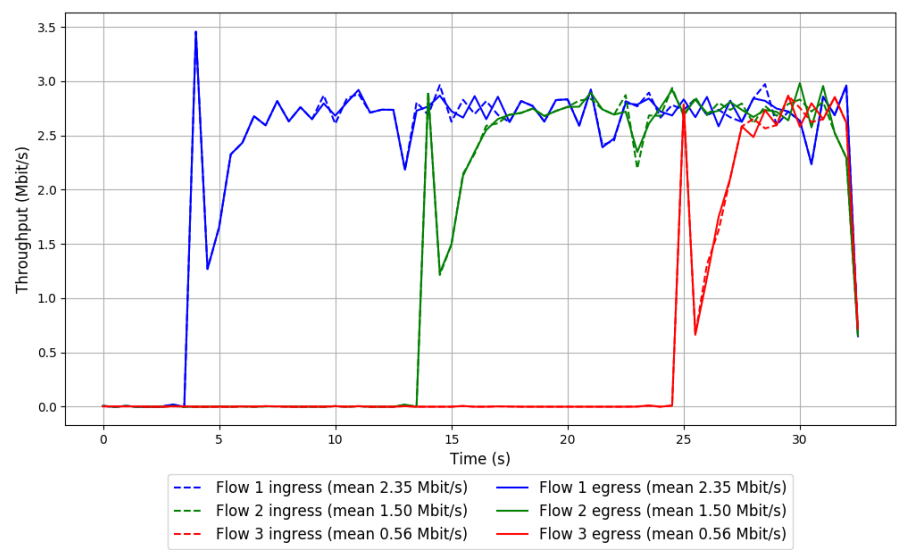
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 6.738 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-01 01:57:17

End at: 2018-02-01 01:57:47

Local clock offset: 0.563 ms

Remote clock offset: 1.195 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 5.983 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 5.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 5.766 ms

Loss rate: 0.00%

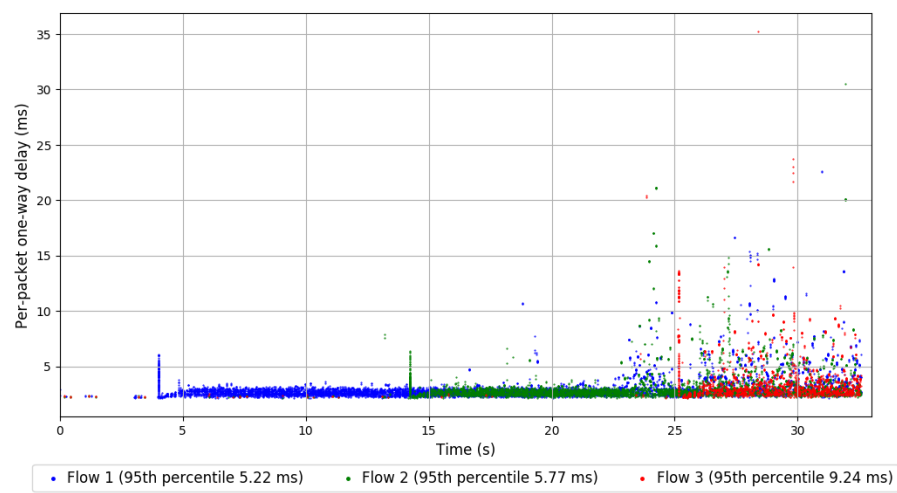
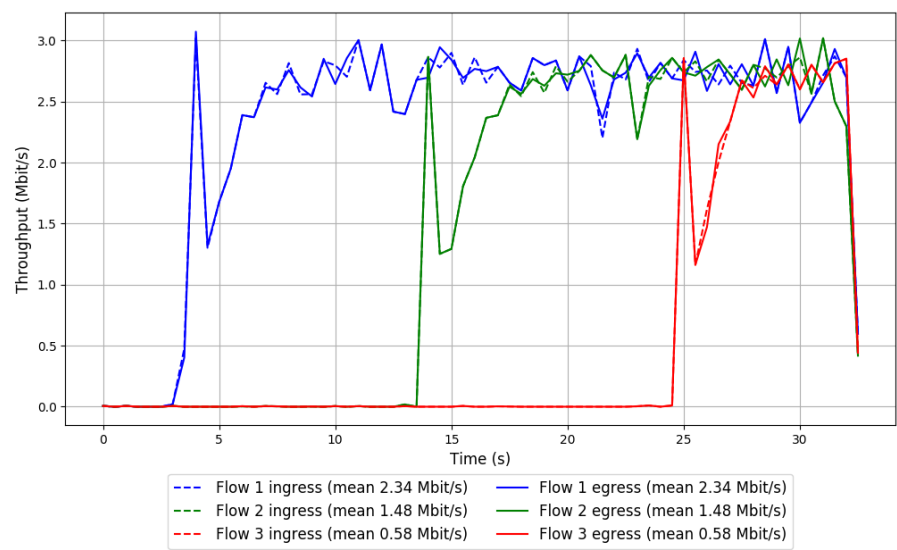
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 9.244 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-01 02:18:58

End at: 2018-02-01 02:19:28

Local clock offset: 0.502 ms

Remote clock offset: 0.975 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 5.694 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 5.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 6.010 ms

Loss rate: 0.00%

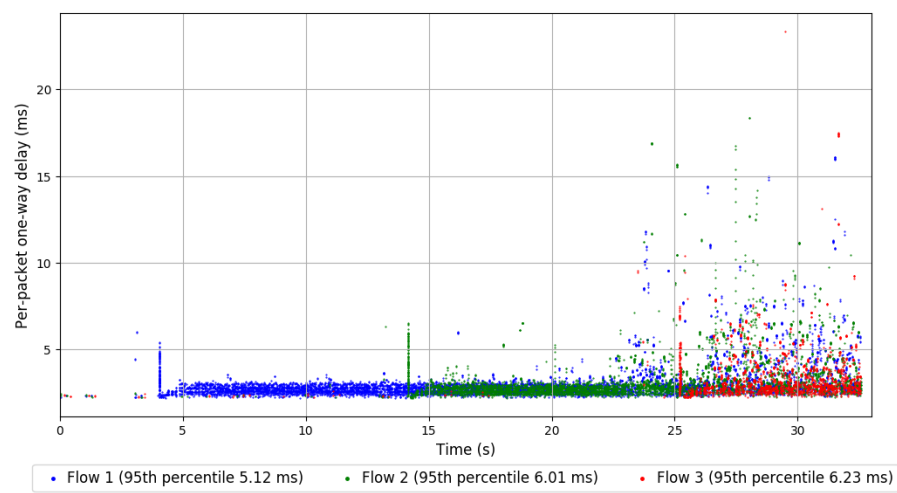
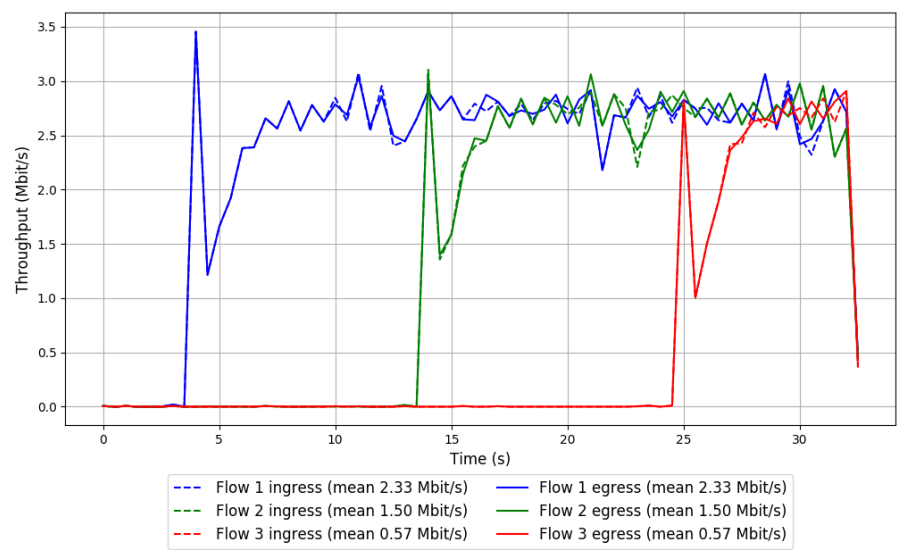
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 6.232 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

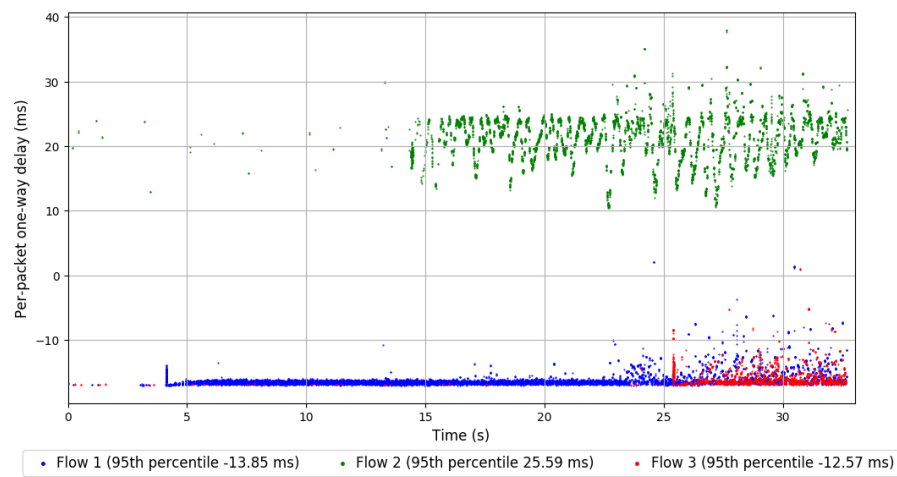
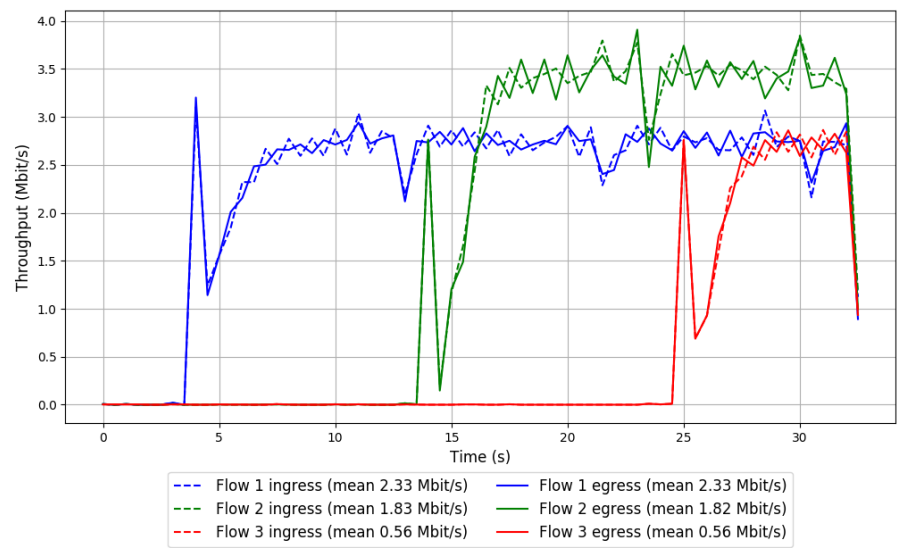


Run 5: Statistics of WebRTC media

Start at: 2018-02-01 02:40:17
End at: 2018-02-01 02:40:47
Local clock offset: 0.388 ms
Remote clock offset: -18.485 ms

Below is generated by plot.py at 2018-02-01 05:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 24.304 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -13.854 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 25.587 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: -12.573 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

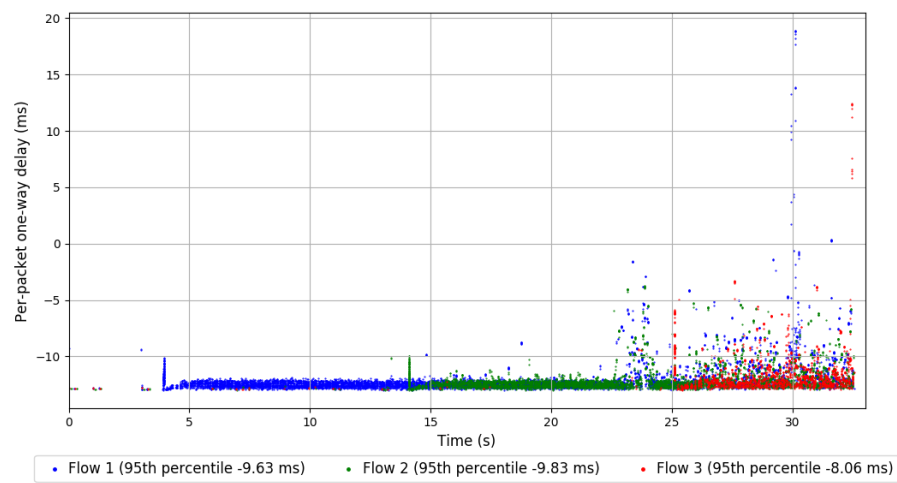
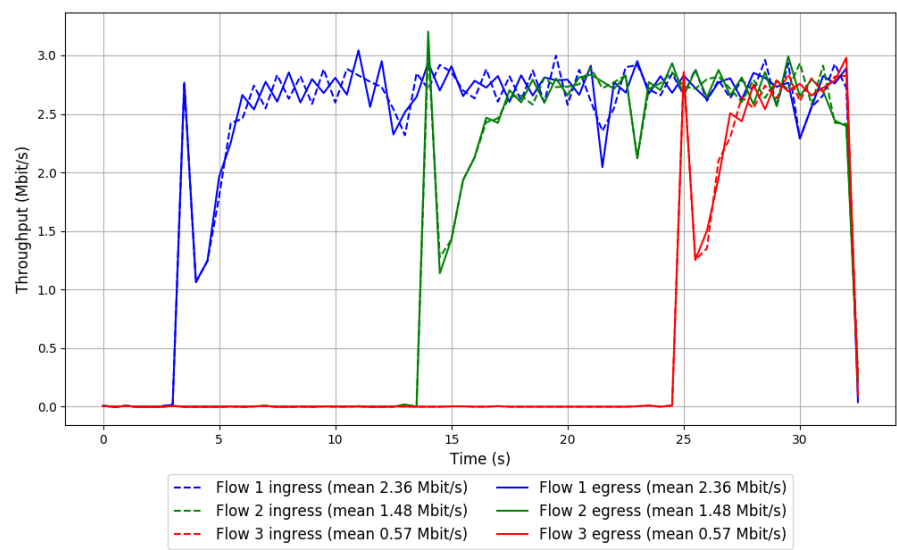


Run 6: Statistics of WebRTC media

Start at: 2018-02-01 03:01:28
End at: 2018-02-01 03:01:58
Local clock offset: 0.21 ms
Remote clock offset: -14.622 ms

Below is generated by plot.py at 2018-02-01 05:14:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: -9.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: -9.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -9.832 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: -8.065 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-01 03:22:09

End at: 2018-02-01 03:22:39

Local clock offset: 0.002 ms

Remote clock offset: 0.563 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 5.964 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 5.443 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.51 Mbit/s

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

Loss rate: 0.00%

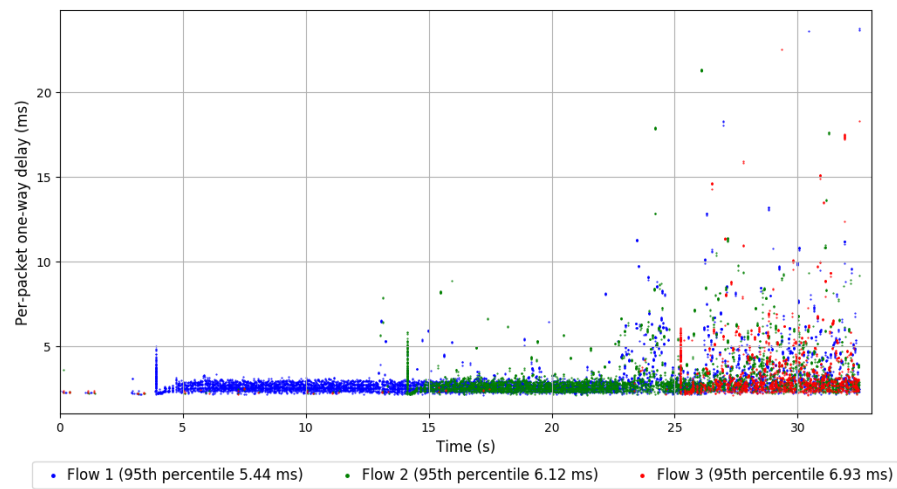
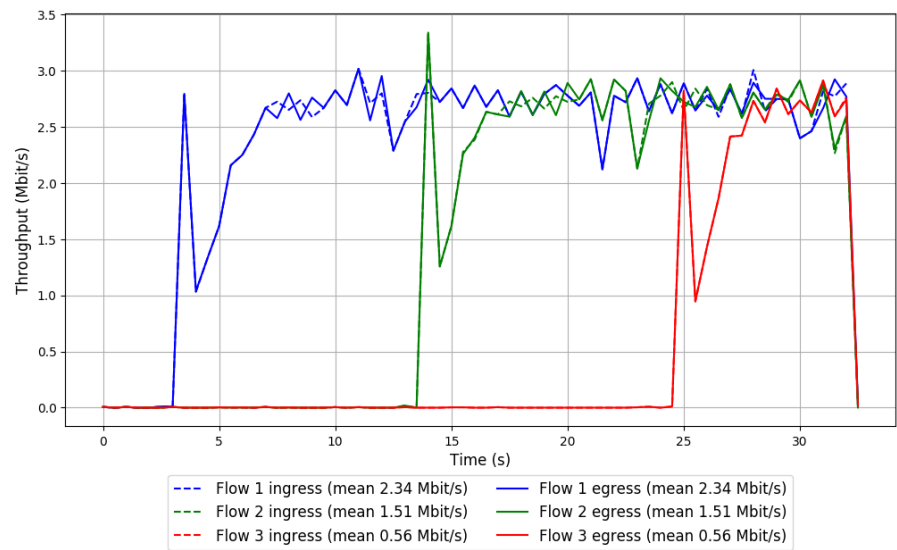
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 6.928 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

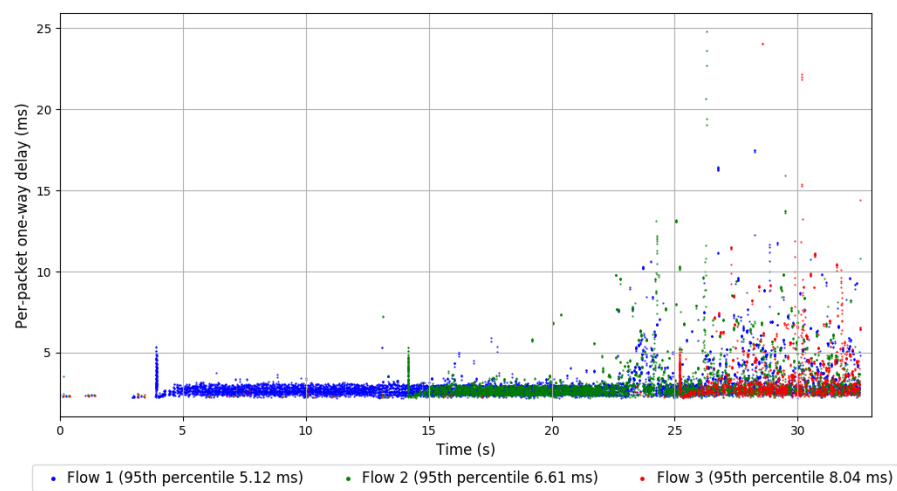
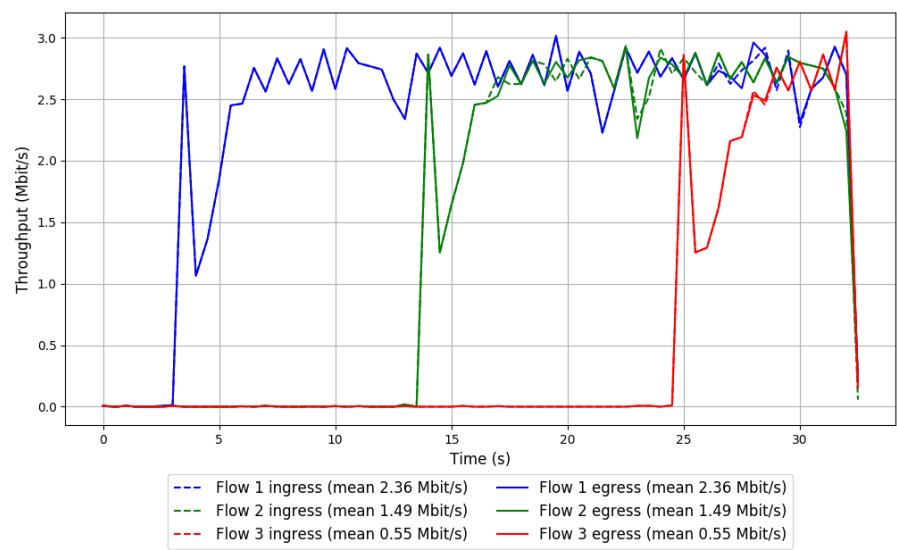


Run 8: Statistics of WebRTC media

Start at: 2018-02-01 03:42:43
End at: 2018-02-01 03:43:13
Local clock offset: -0.2 ms
Remote clock offset: 1.046 ms

```
# Below is generated by plot.py at 2018-02-01 05:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 6.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 5.120 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 6.607 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 8.036 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-01 04:03:17

End at: 2018-02-01 04:03:47

Local clock offset: -0.263 ms

Remote clock offset: 1.669 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 5.582 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 5.291 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 6.369 ms

Loss rate: 0.00%

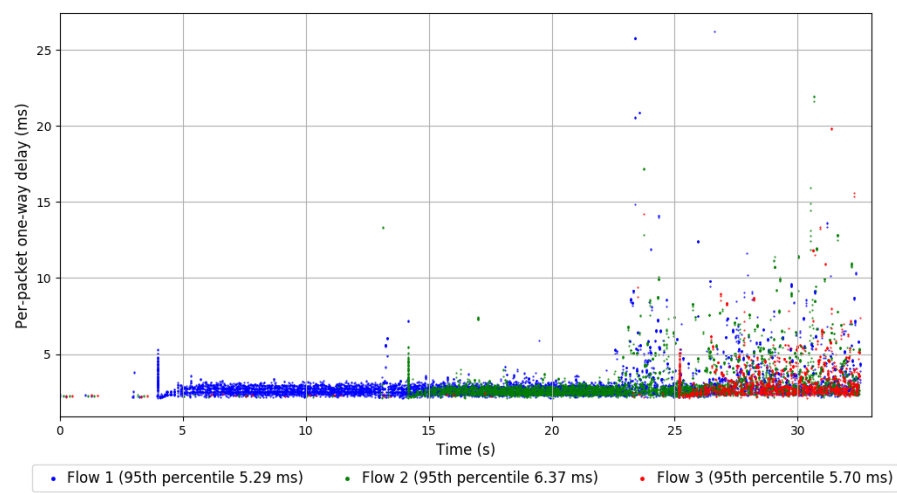
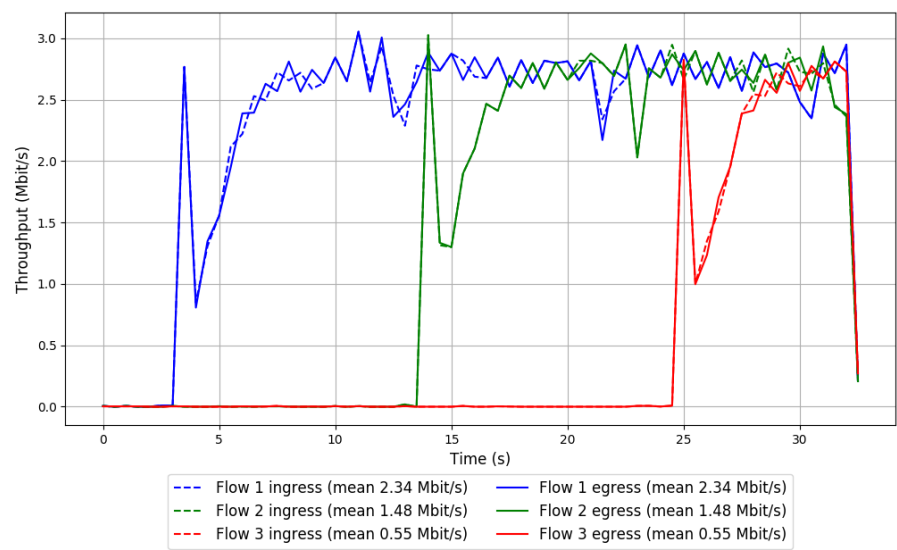
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 5.700 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-01 04:23:51

End at: 2018-02-01 04:24:21

Local clock offset: -0.31 ms

Remote clock offset: 1.923 ms

Below is generated by plot.py at 2018-02-01 05:14:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 5.974 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 5.528 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 6.113 ms

Loss rate: 0.00%

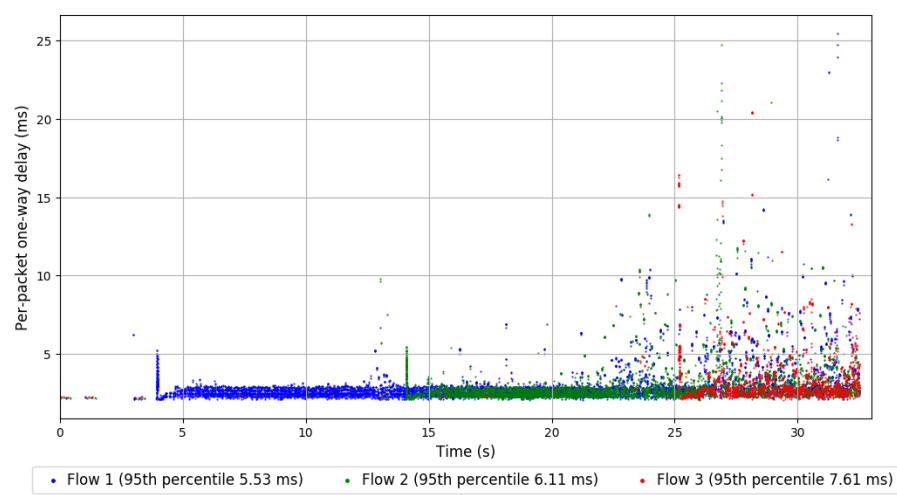
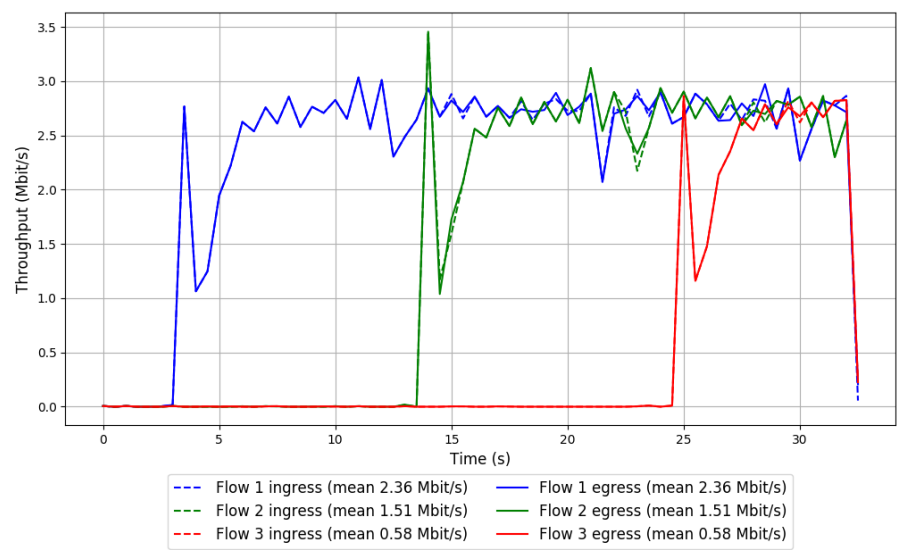
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 7.607 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

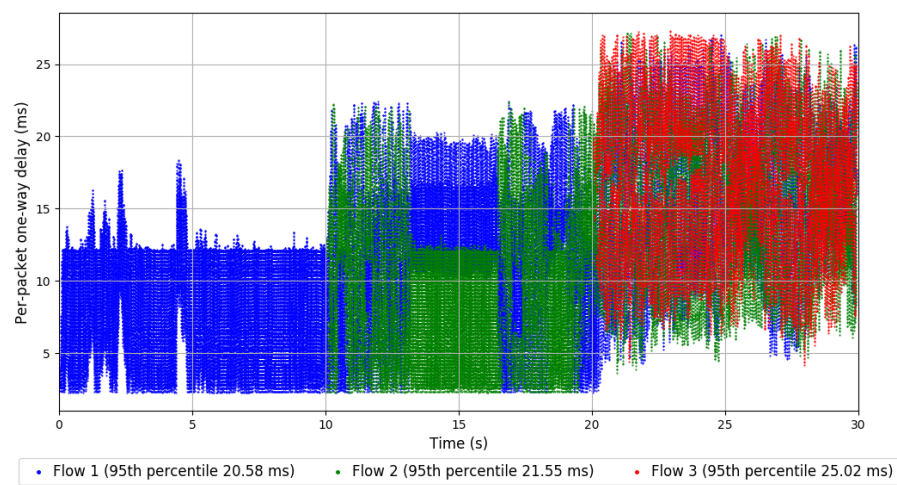
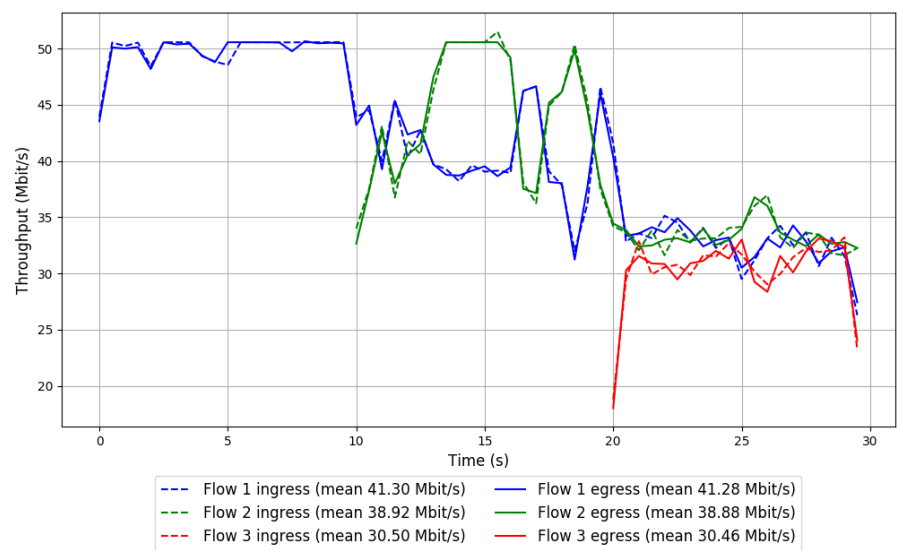


```
Run 1: Statistics of Sprout

Start at: 2018-02-01 01:24:34
End at: 2018-02-01 01:25:04
Local clock offset: 0.644 ms
Remote clock offset: 2.01 ms

# Below is generated by plot.py at 2018-02-01 05:15:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 22.178 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 20.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 21.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 25.016 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-01 01:46:24

End at: 2018-02-01 01:46:54

Local clock offset: 0.59 ms

Remote clock offset: 1.42 ms

Below is generated by plot.py at 2018-02-01 05:15:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.53 Mbit/s

95th percentile per-packet one-way delay: 50.165 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 46.17 Mbit/s

95th percentile per-packet one-way delay: 16.896 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.17 Mbit/s

95th percentile per-packet one-way delay: 59.378 ms

Loss rate: 4.71%

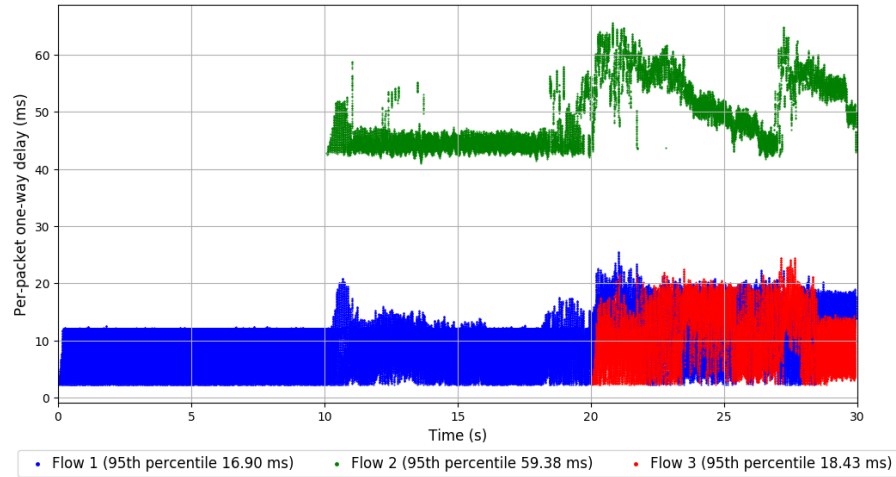
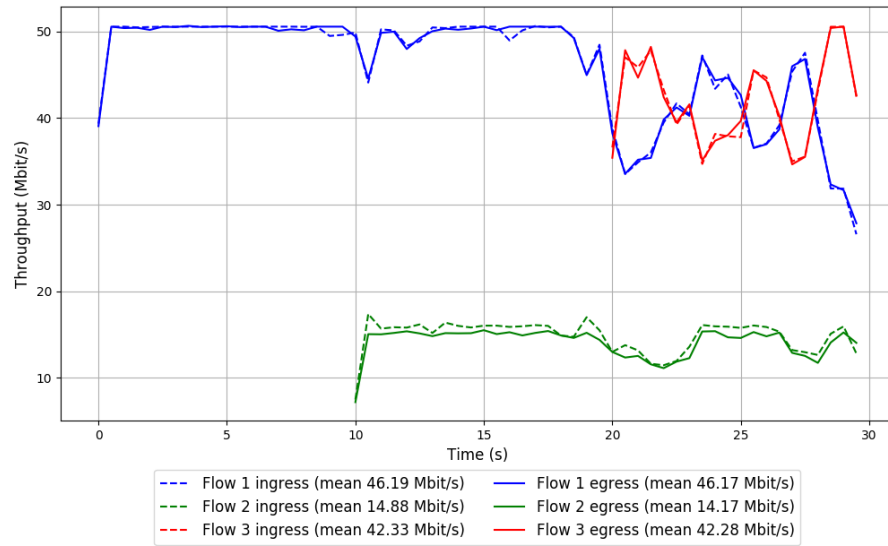
-- Flow 3:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 18.426 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-01 02:08:00

End at: 2018-02-01 02:08:30

Local clock offset: 0.56 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-02-01 05:15:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 20.938 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 20.574 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.31 Mbit/s

95th percentile per-packet one-way delay: 21.219 ms

Loss rate: 0.00%

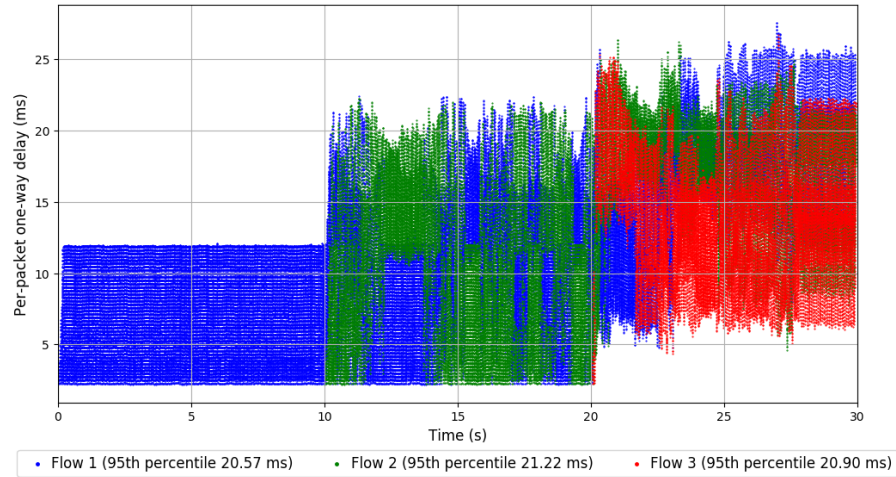
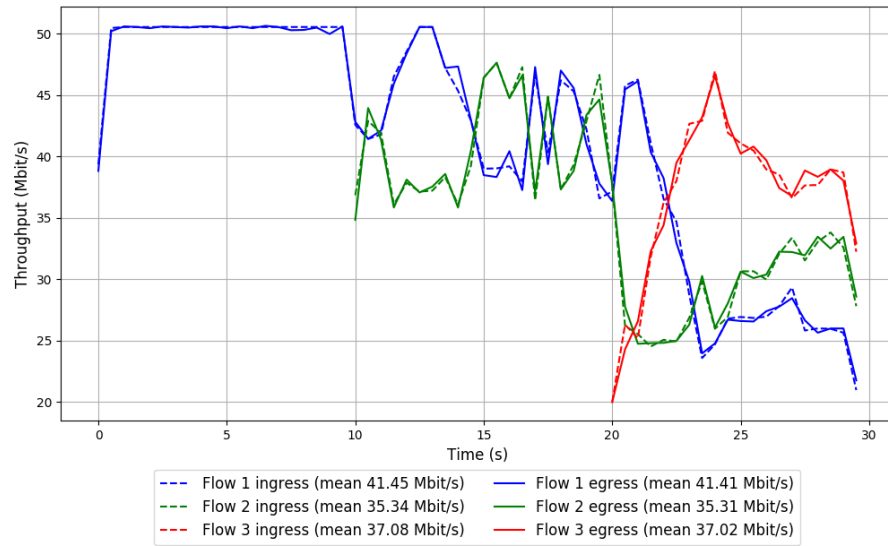
-- Flow 3:

Average throughput: 37.02 Mbit/s

95th percentile per-packet one-way delay: 20.899 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-01 02:29:37

End at: 2018-02-01 02:30:07

Local clock offset: 0.397 ms

Remote clock offset: 0.881 ms

Below is generated by plot.py at 2018-02-01 05:15:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 22.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 20.805 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 21.753 ms

Loss rate: 0.00%

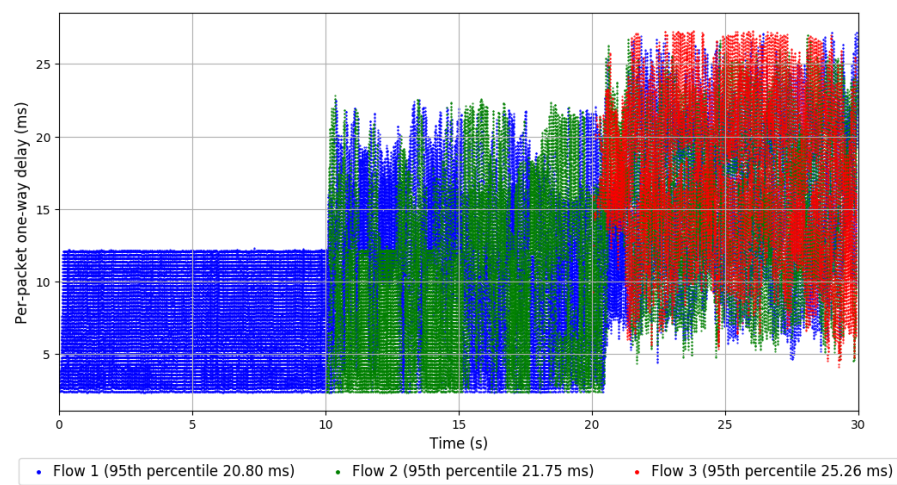
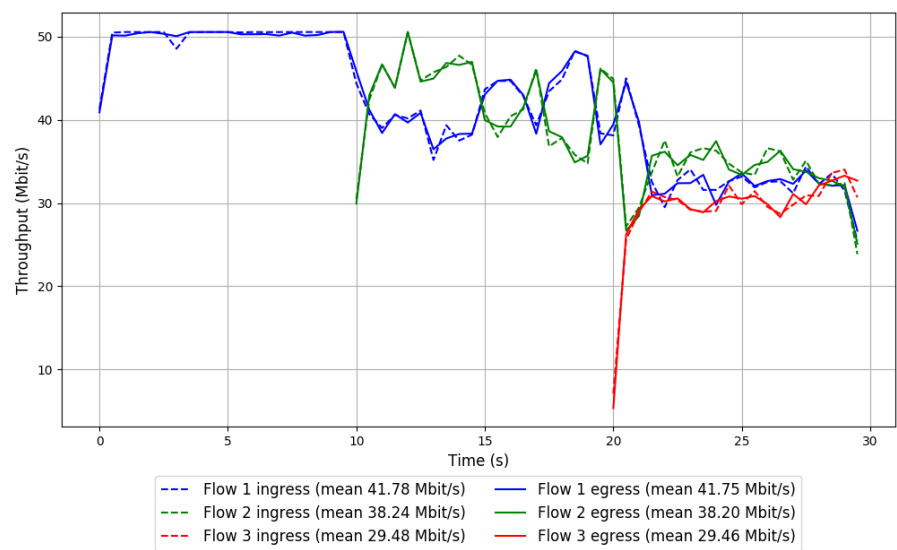
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 25.261 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-01 02:50:52

End at: 2018-02-01 02:51:22

Local clock offset: 0.314 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-02-01 05:15:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 21.908 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 41.95 Mbit/s

95th percentile per-packet one-way delay: 20.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.69 Mbit/s

95th percentile per-packet one-way delay: 21.272 ms

Loss rate: 0.00%

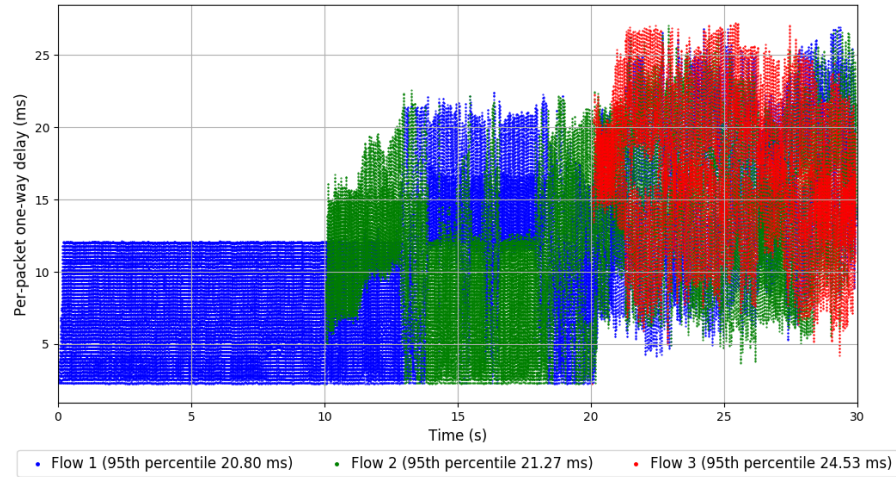
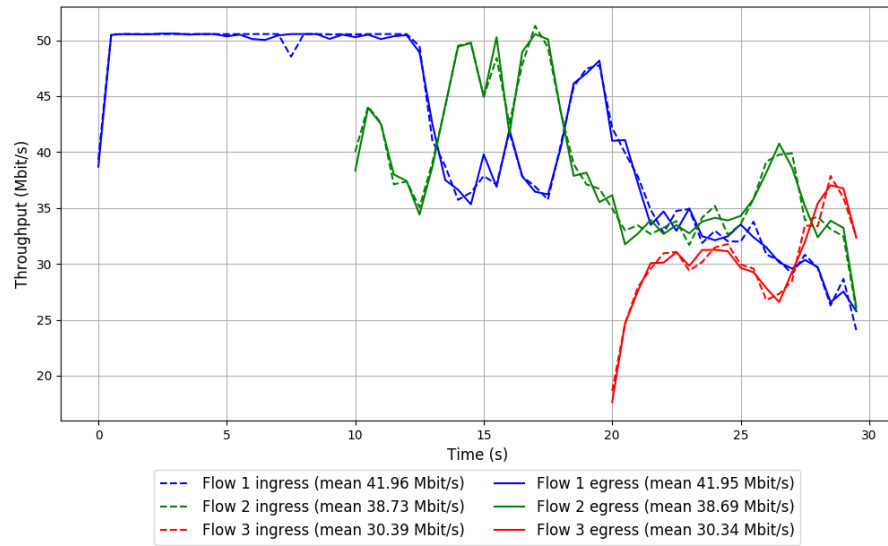
-- Flow 3:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 24.532 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

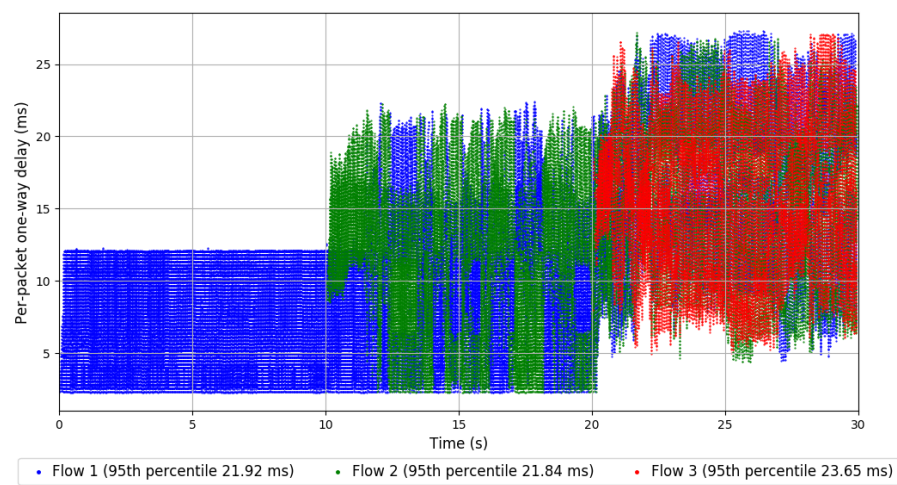
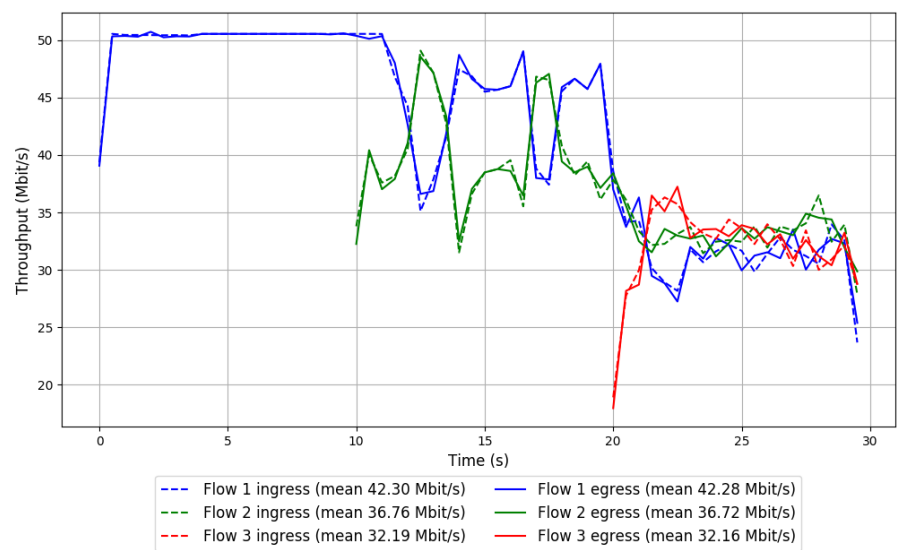


Run 6: Statistics of Sprout

Start at: 2018-02-01 03:11:51
End at: 2018-02-01 03:12:21
Local clock offset: 0.104 ms
Remote clock offset: 0.383 ms

Below is generated by plot.py at 2018-02-01 05:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.32 Mbit/s
95th percentile per-packet one-way delay: 22.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 21.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.72 Mbit/s
95th percentile per-packet one-way delay: 21.837 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 23.652 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

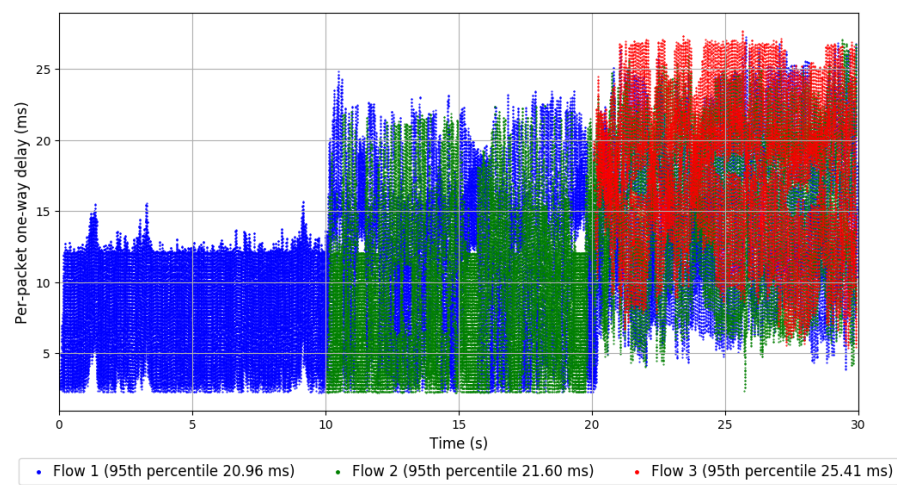
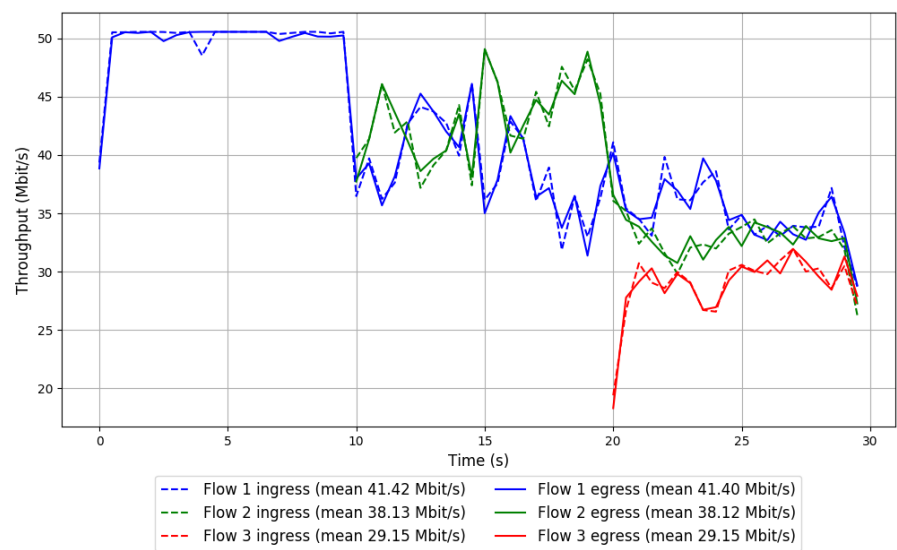


Run 7: Statistics of Sprout

Start at: 2018-02-01 03:32:25
End at: 2018-02-01 03:32:55
Local clock offset: -0.057 ms
Remote clock offset: 0.778 ms

Below is generated by plot.py at 2018-02-01 05:15:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.37 Mbit/s
95th percentile per-packet one-way delay: 22.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.40 Mbit/s
95th percentile per-packet one-way delay: 20.962 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 21.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 25.413 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

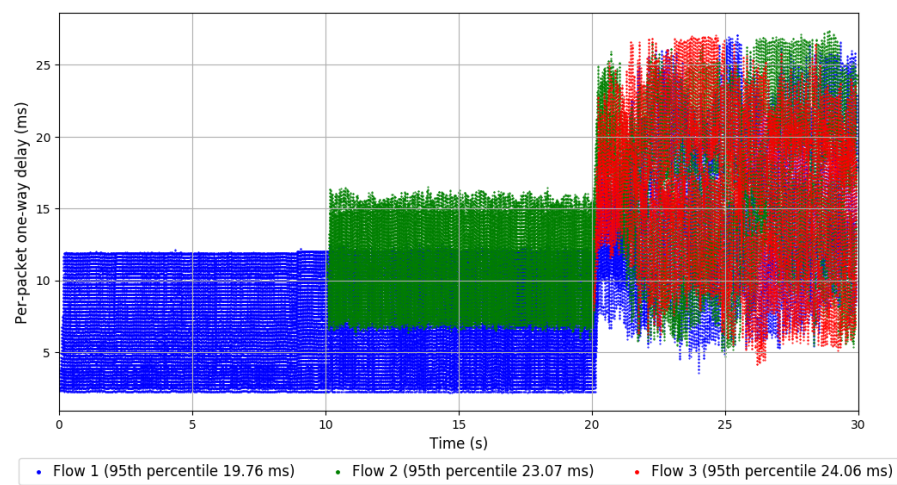
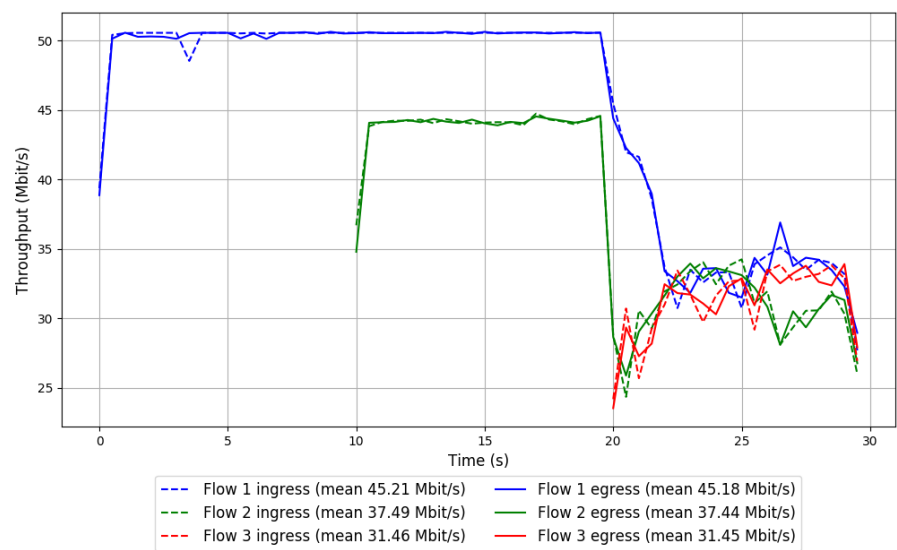


Run 8: Statistics of Sprout

Start at: 2018-02-01 03:52:58
End at: 2018-02-01 03:53:28
Local clock offset: -0.223 ms
Remote clock offset: 1.476 ms

Below is generated by plot.py at 2018-02-01 05:15:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 22.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.18 Mbit/s
95th percentile per-packet one-way delay: 19.757 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 23.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 24.059 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

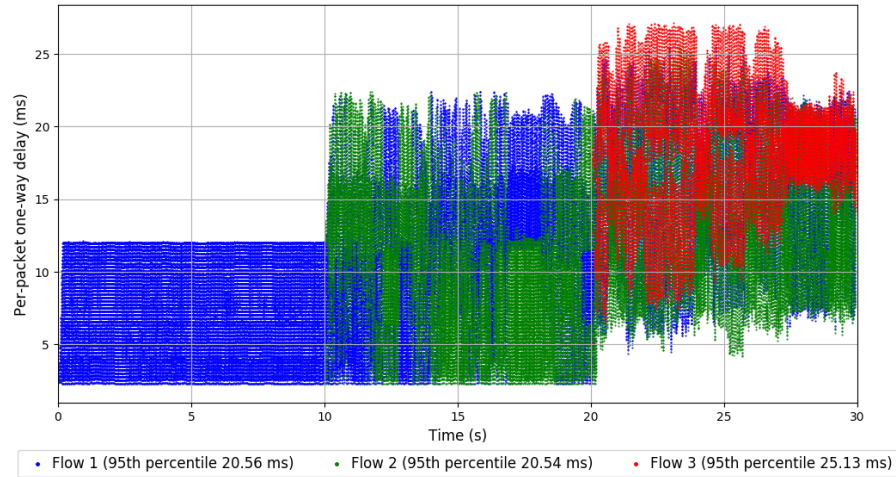
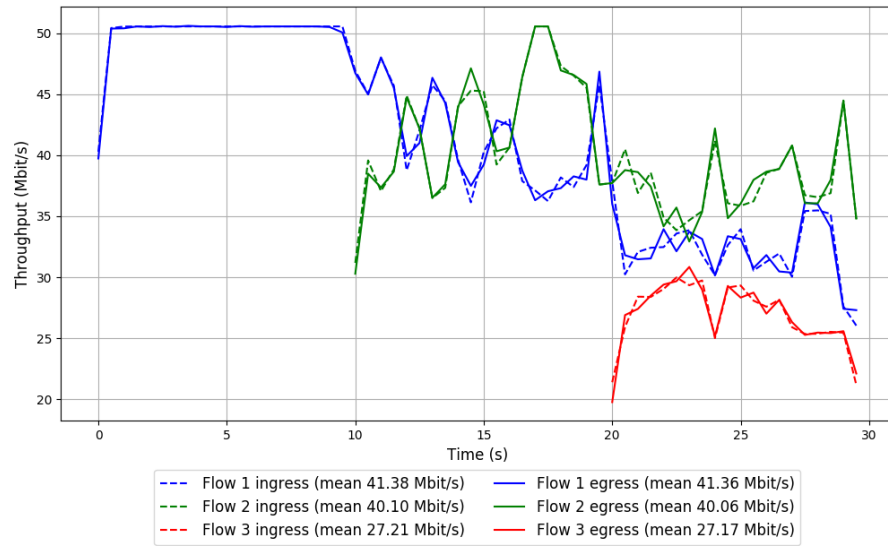


Run 9: Statistics of Sprout

Start at: 2018-02-01 04:13:33
End at: 2018-02-01 04:14:03
Local clock offset: -0.294 ms
Remote clock offset: 1.825 ms

Below is generated by plot.py at 2018-02-01 05:16:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 21.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 20.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 20.536 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 25.131 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

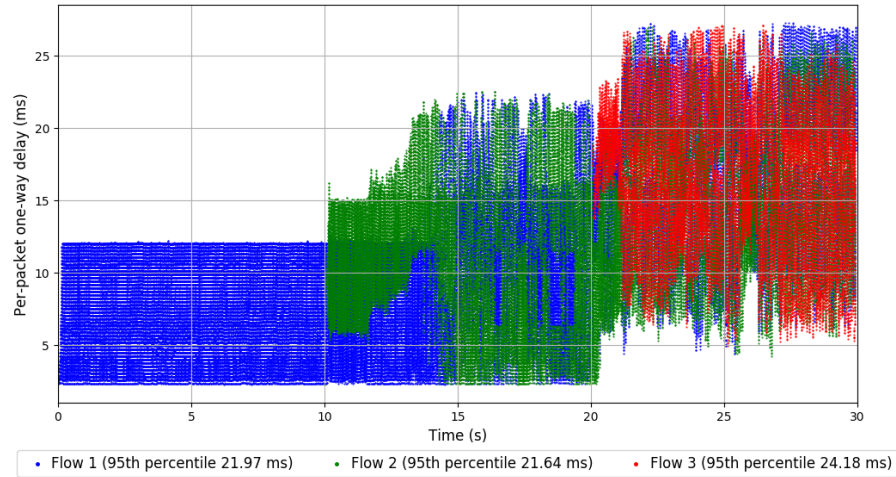
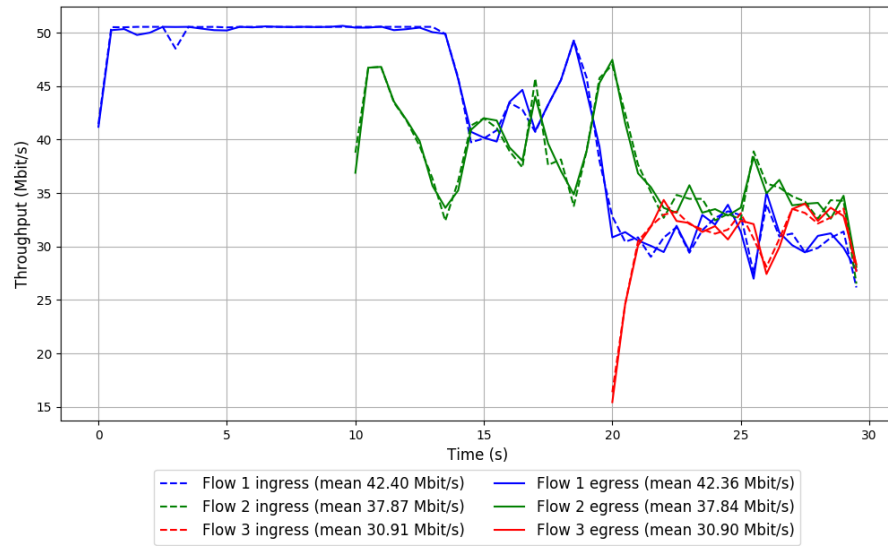


Run 10: Statistics of Sprout

Start at: 2018-02-01 04:34:07
End at: 2018-02-01 04:34:37
Local clock offset: -0.335 ms
Remote clock offset: 1.982 ms

Below is generated by plot.py at 2018-02-01 05:16:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 22.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.36 Mbit/s
95th percentile per-packet one-way delay: 21.973 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 21.637 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 24.176 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

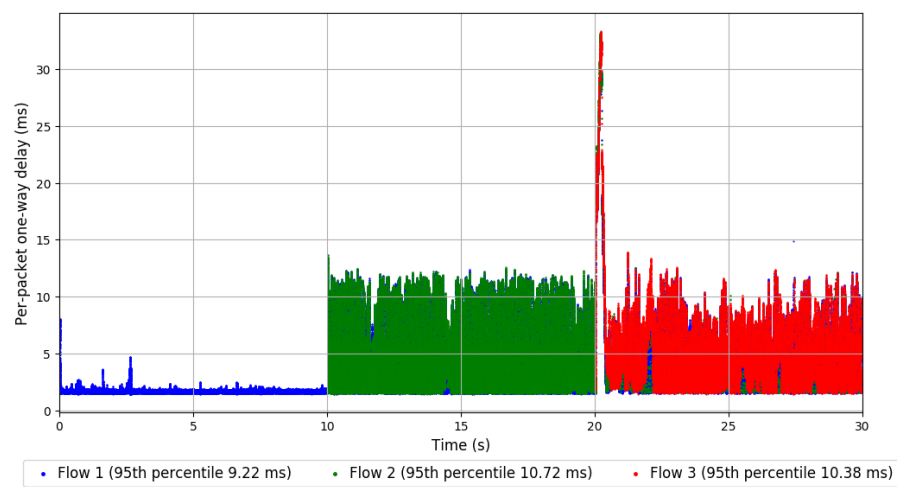
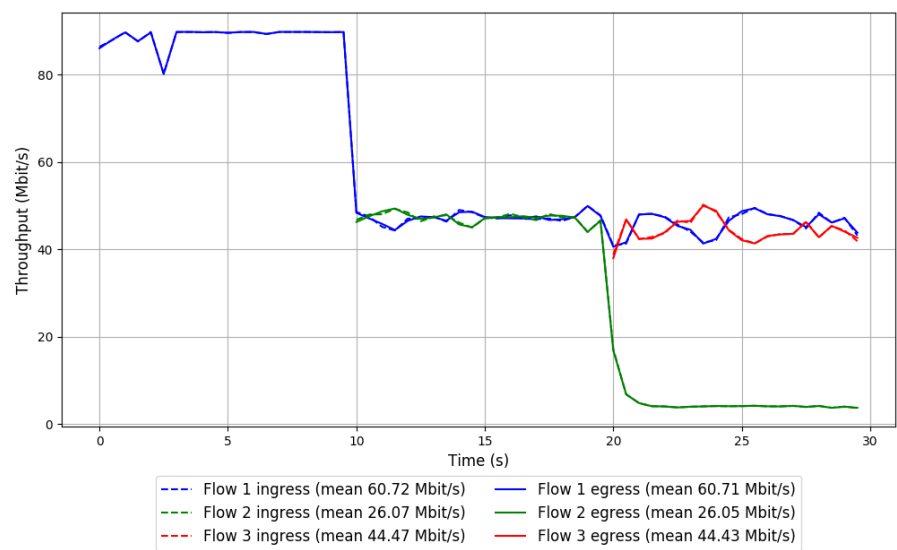


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-01 01:08:46
End at: 2018-02-01 01:09:16
Local clock offset: 0.544 ms
Remote clock offset: 0.554 ms

# Below is generated by plot.py at 2018-02-01 05:17:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 9.897 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 9.222 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 10.717 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 44.43 Mbit/s
95th percentile per-packet one-way delay: 10.384 ms
Loss rate: 0.06%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-01 01:30:34

End at: 2018-02-01 01:31:04

Local clock offset: 0.63 ms

Remote clock offset: 1.85 ms

Below is generated by plot.py at 2018-02-01 05:17:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 11.256 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 10.784 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 26.07 Mbit/s

95th percentile per-packet one-way delay: 11.832 ms

Loss rate: 0.13%

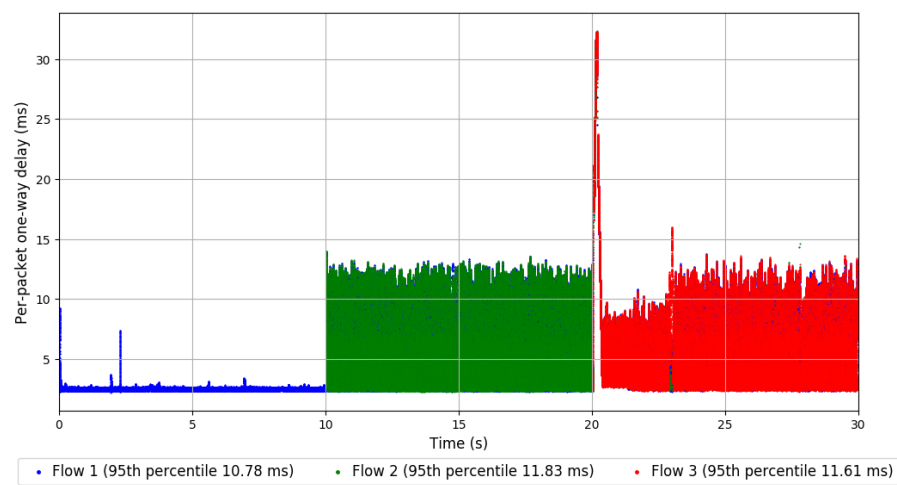
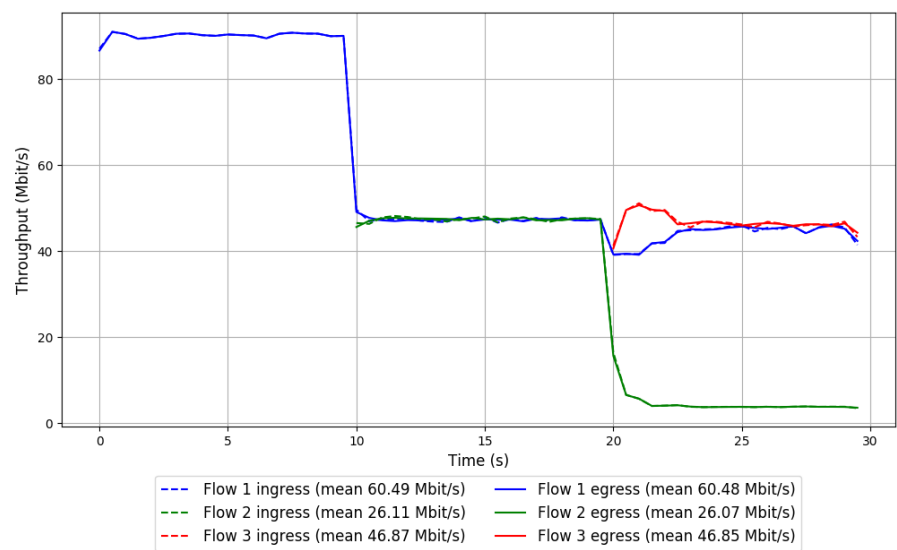
-- Flow 3:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 11.605 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-01 01:52:22

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

Local clock offset: 0.548 ms

Remote clock offset: 1.293 ms

Below is generated by plot.py at 2018-02-01 05:17:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 11.315 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 46.67 Mbit/s

95th percentile per-packet one-way delay: 10.575 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 11.698 ms

Loss rate: 0.03%

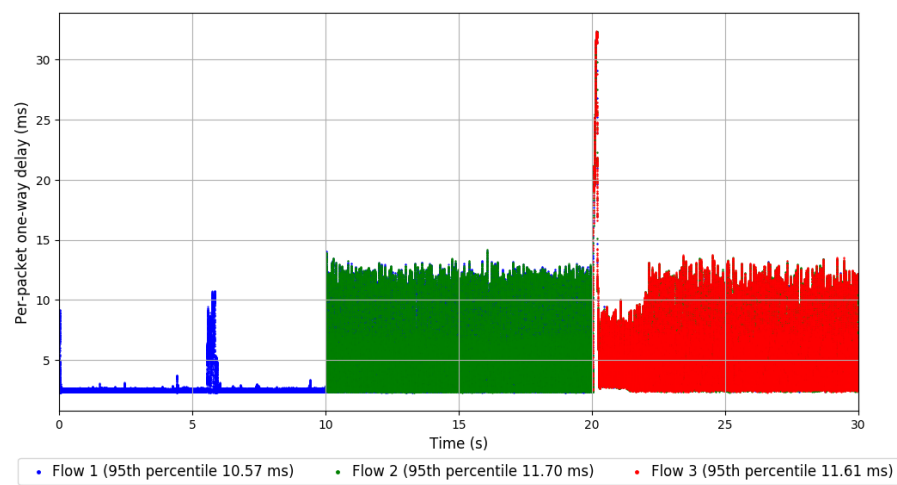
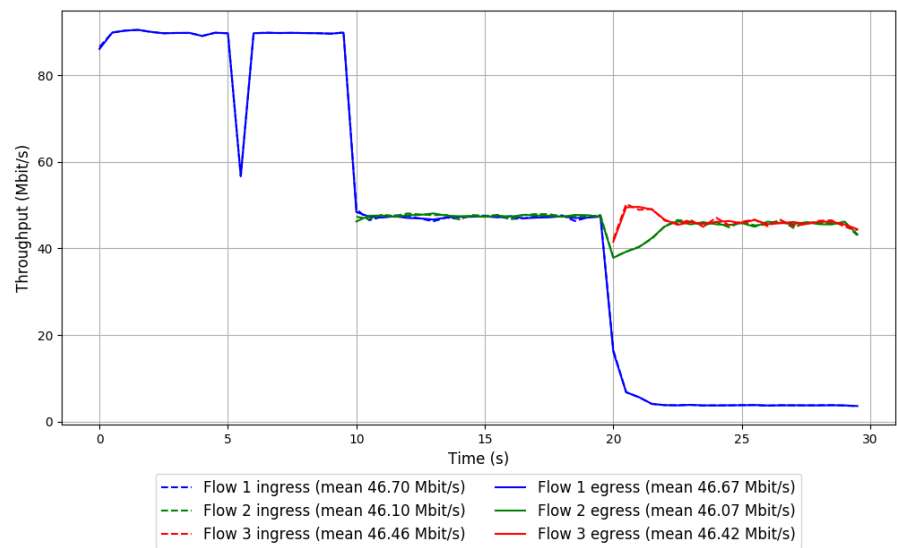
-- Flow 3:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 11.605 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-01 02:14:00

End at: 2018-02-01 02:14:30

Local clock offset: 0.566 ms

Remote clock offset: 0.94 ms

Below is generated by plot.py at 2018-02-01 05:17:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 10.789 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 10.376 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 27.47 Mbit/s

95th percentile per-packet one-way delay: 11.824 ms

Loss rate: 0.08%

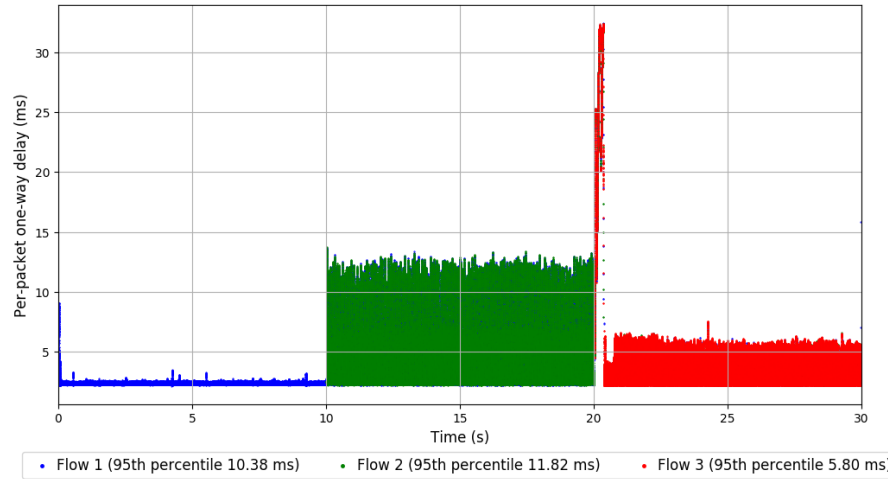
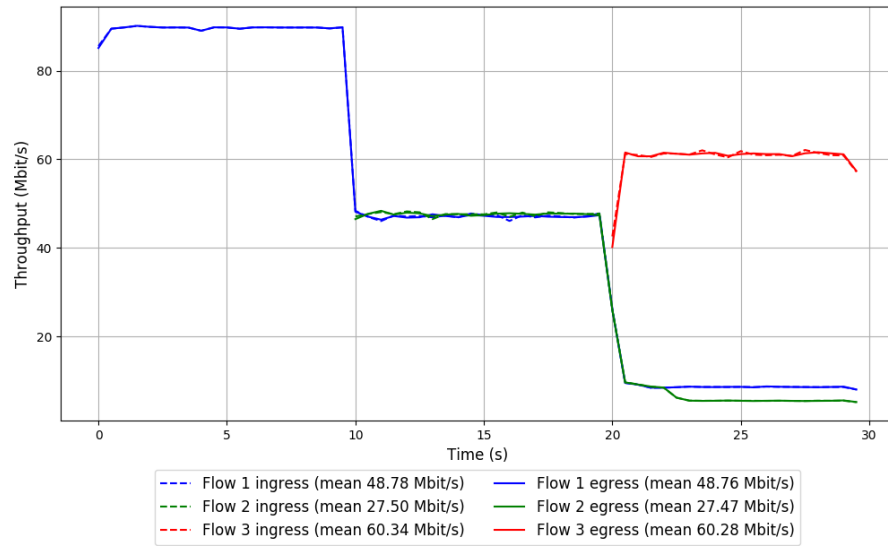
-- Flow 3:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 5.803 ms

Loss rate: 0.15%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-01 02:35:27

End at: 2018-02-01 02:35:57

Local clock offset: 0.423 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2018-02-01 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 27.162 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 11.293 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 45.34 Mbit/s

95th percentile per-packet one-way delay: 14.721 ms

Loss rate: 0.07%

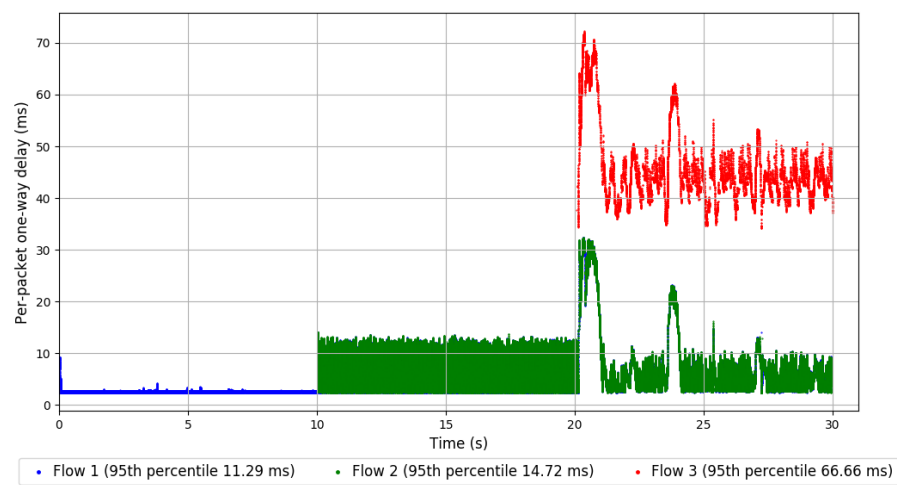
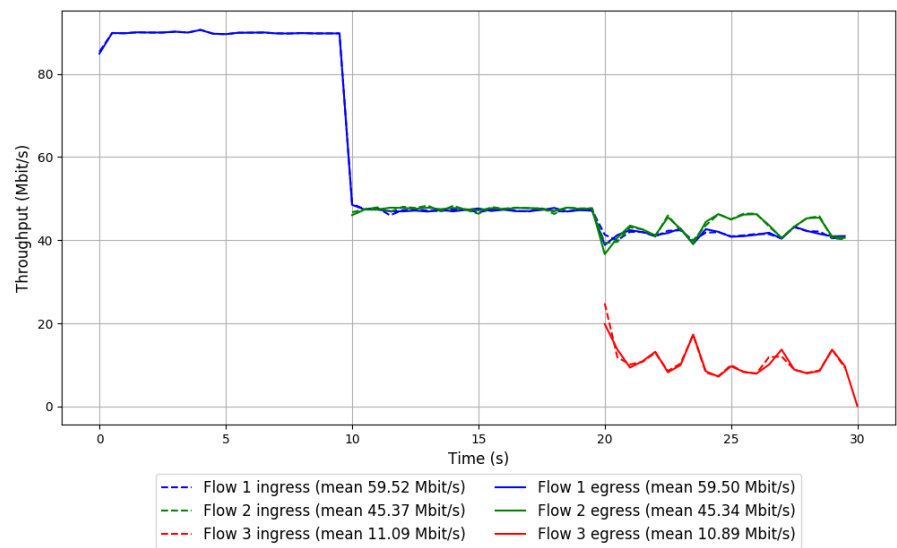
-- Flow 3:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 66.655 ms

Loss rate: 1.82%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-01 02:56:40

End at: 2018-02-01 02:57:10

Local clock offset: 0.257 ms

Remote clock offset: 0.479 ms

Below is generated by plot.py at 2018-02-01 05:18:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.22 Mbit/s

95th percentile per-packet one-way delay: 10.636 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 9.982 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 11.197 ms

Loss rate: 0.08%

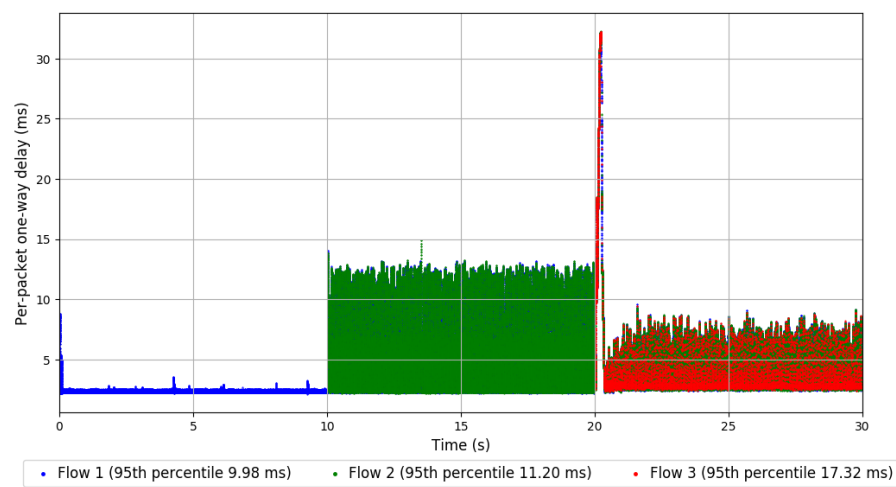
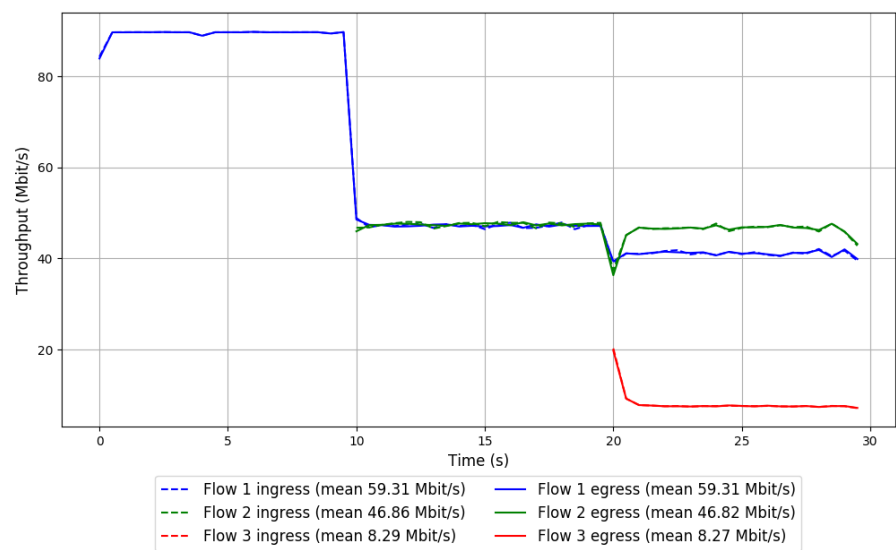
-- Flow 3:

Average throughput: 8.27 Mbit/s

95th percentile per-packet one-way delay: 17.320 ms

Loss rate: 0.24%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-01 03:17:29

End at: 2018-02-01 03:17:59

Local clock offset: -0.008 ms

Remote clock offset: 0.349 ms

Below is generated by plot.py at 2018-02-01 05:18:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.19 Mbit/s

95th percentile per-packet one-way delay: 11.420 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 47.44 Mbit/s

95th percentile per-packet one-way delay: 10.765 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 46.00 Mbit/s

95th percentile per-packet one-way delay: 11.768 ms

Loss rate: 0.10%

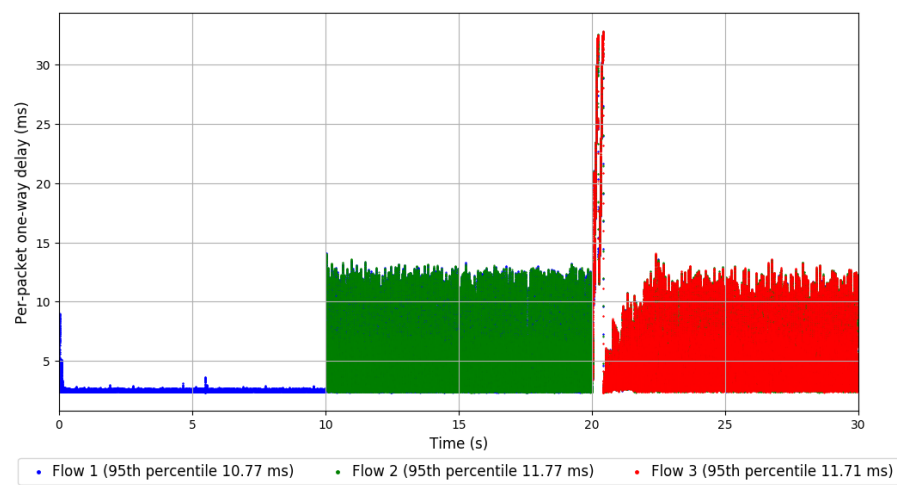
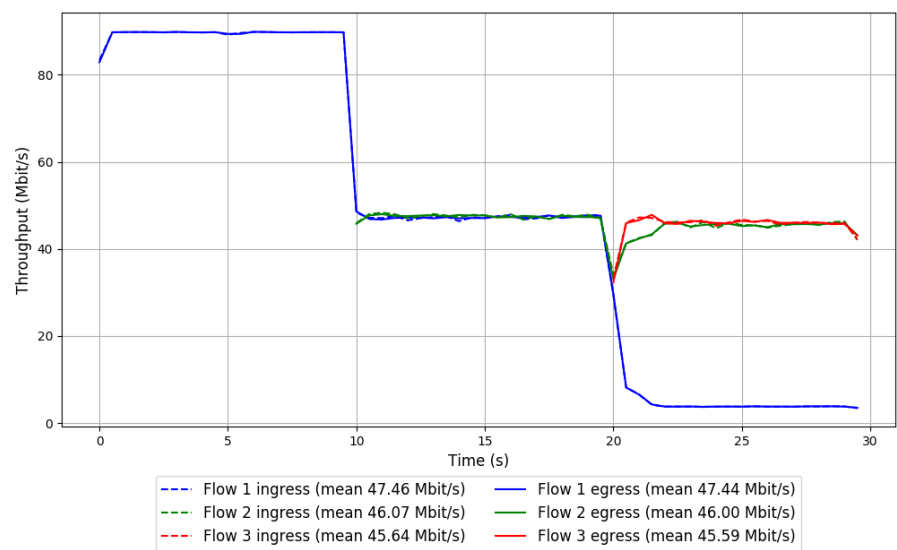
-- Flow 3:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 11.707 ms

Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-01 03:38:03

End at: 2018-02-01 03:38:33

Local clock offset: -0.124 ms

Remote clock offset: 0.8 ms

Below is generated by plot.py at 2018-02-01 05:18:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.21 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 59.80 Mbit/s

95th percentile per-packet one-way delay: 10.301 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 11.684 ms

Loss rate: 0.02%

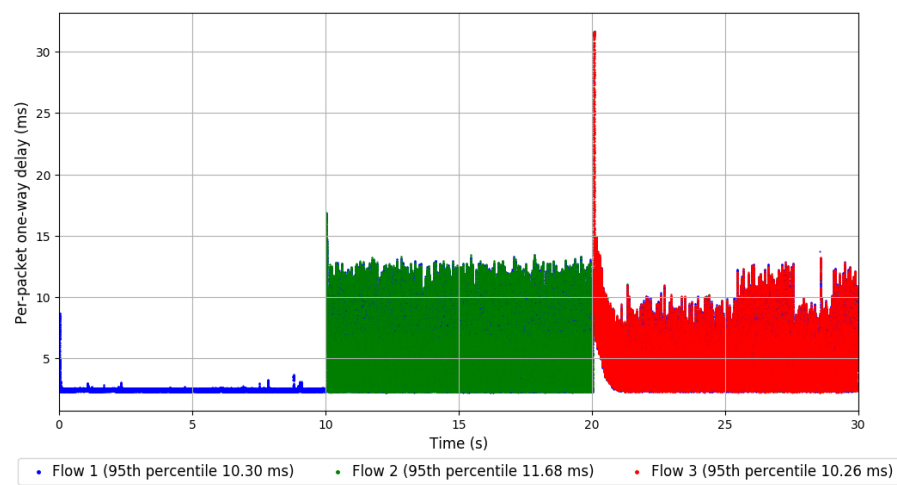
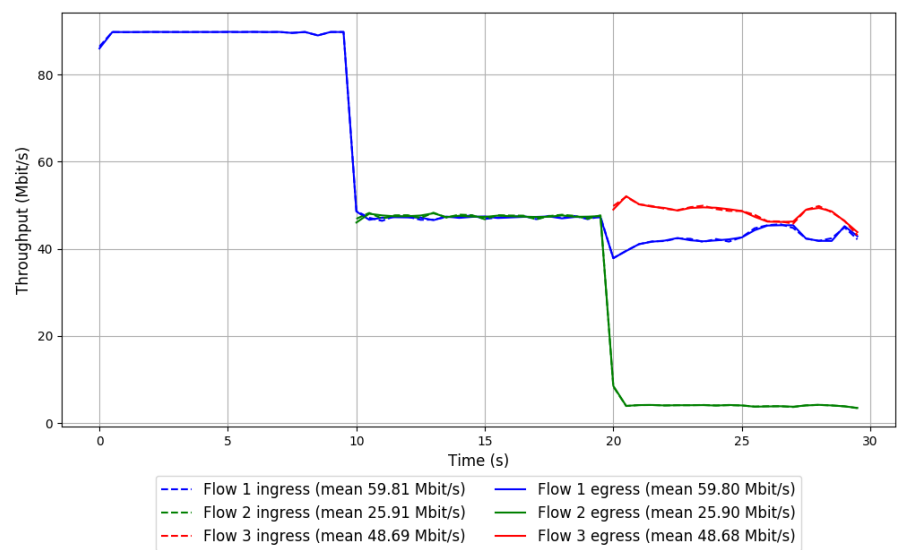
-- Flow 3:

Average throughput: 48.68 Mbit/s

95th percentile per-packet one-way delay: 10.264 ms

Loss rate: 0.04%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-01 03:58:36

End at: 2018-02-01 03:59:06

Local clock offset: -0.224 ms

Remote clock offset: 1.627 ms

Below is generated by plot.py at 2018-02-01 05:20:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 10.760 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 59.88 Mbit/s

95th percentile per-packet one-way delay: 10.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 25.93 Mbit/s

95th percentile per-packet one-way delay: 11.715 ms

Loss rate: 0.01%

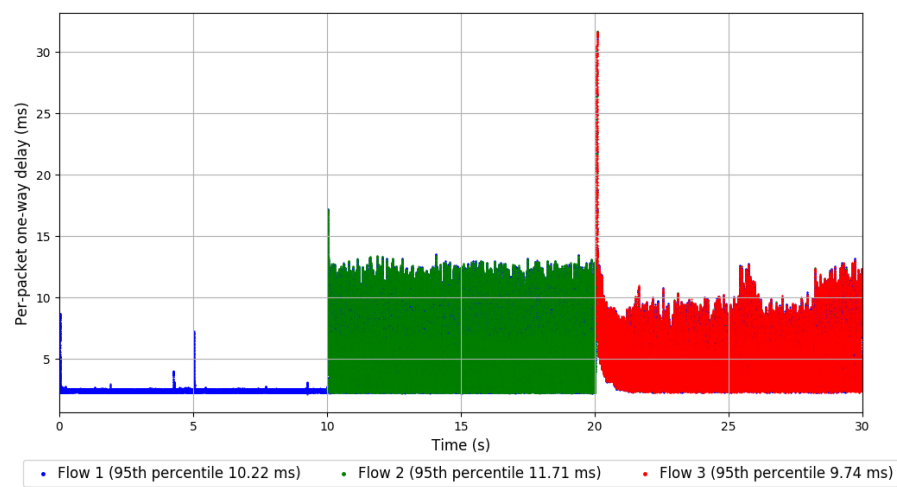
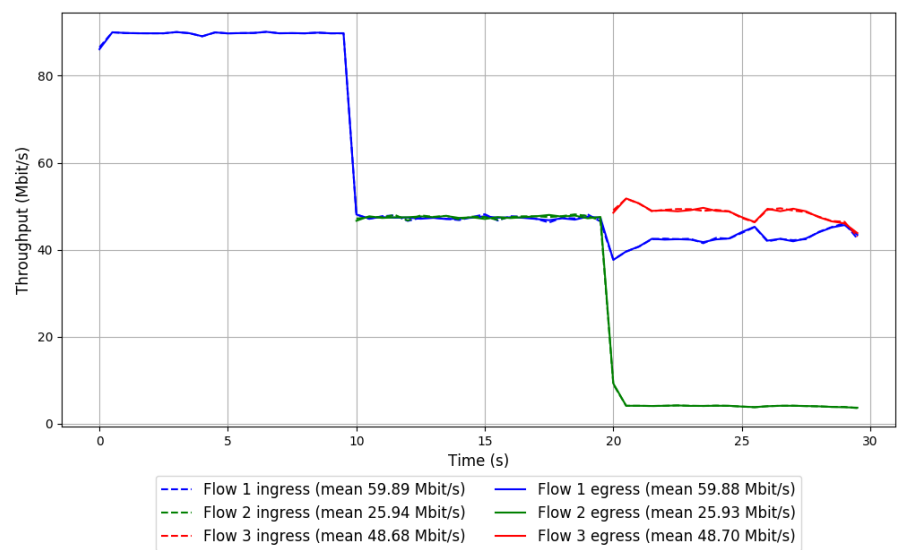
-- Flow 3:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 9.737 ms

Loss rate: 0.02%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-01 04:19:11

End at: 2018-02-01 04:19:41

Local clock offset: -0.312 ms

Remote clock offset: 1.92 ms

Below is generated by plot.py at 2018-02-01 05:20:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 11.481 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 10.766 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 45.91 Mbit/s

95th percentile per-packet one-way delay: 11.807 ms

Loss rate: 0.05%

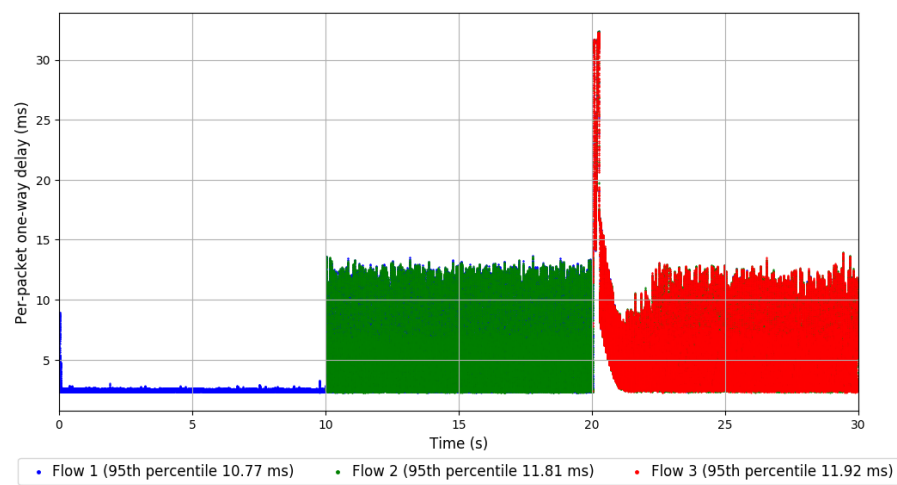
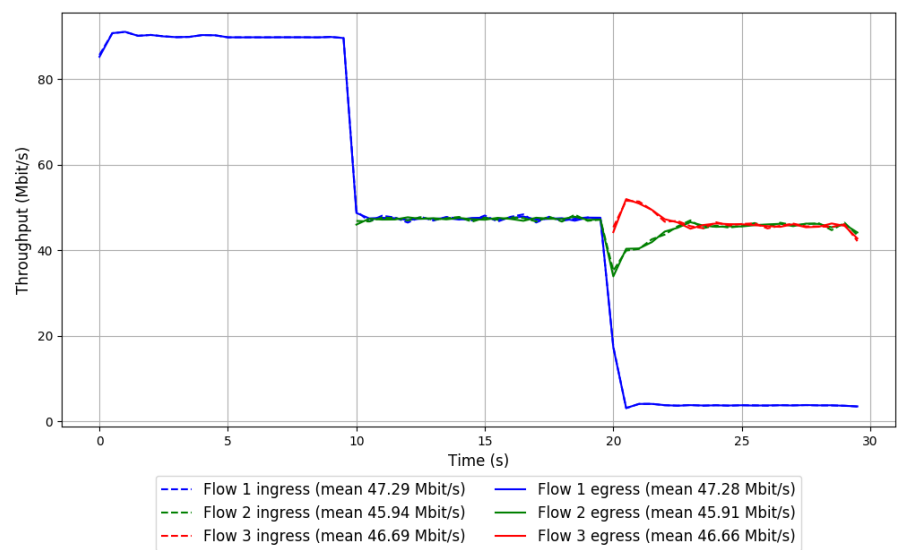
-- Flow 3:

Average throughput: 46.66 Mbit/s

95th percentile per-packet one-way delay: 11.916 ms

Loss rate: 0.04%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-01 01:07:33

End at: 2018-02-01 01:08:03

Local clock offset: 0.501 ms

Remote clock offset: 1.343 ms

Below is generated by plot.py at 2018-02-01 05:20:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.99 Mbit/s

95th percentile per-packet one-way delay: 7.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 3.943 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.97 Mbit/s

95th percentile per-packet one-way delay: 16.971 ms

Loss rate: 0.00%

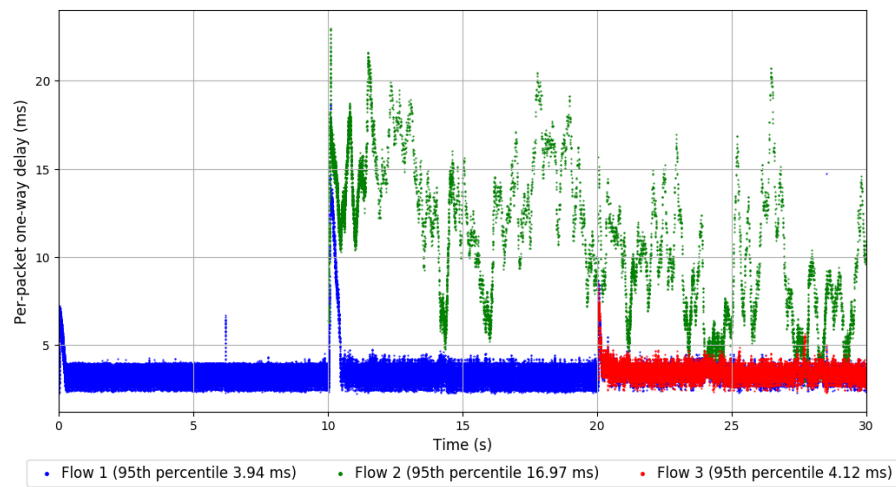
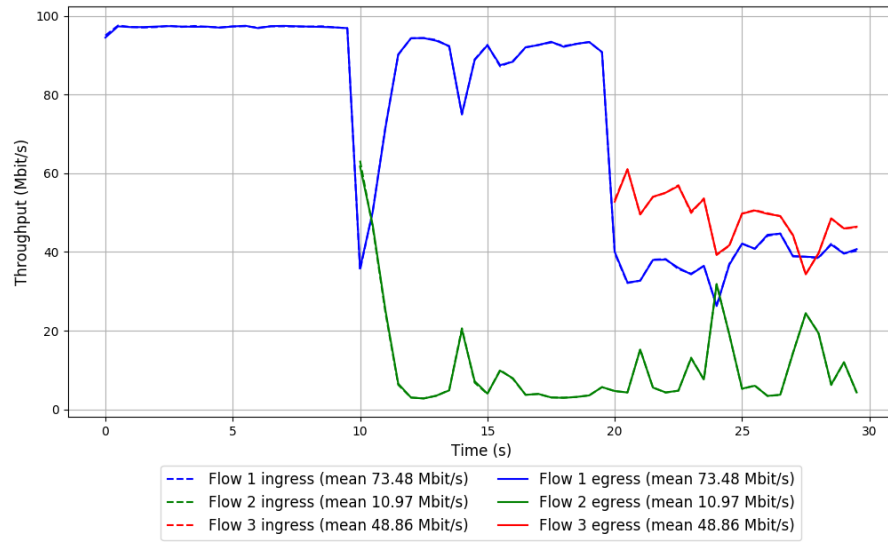
-- Flow 3:

Average throughput: 48.86 Mbit/s

95th percentile per-packet one-way delay: 4.115 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-01 01:29:22

End at: 2018-02-01 01:29:52

Local clock offset: 0.588 ms

Remote clock offset: 1.881 ms

Below is generated by plot.py at 2018-02-01 05:20:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.022 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 7.046 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 4.812 ms

Loss rate: 0.00%

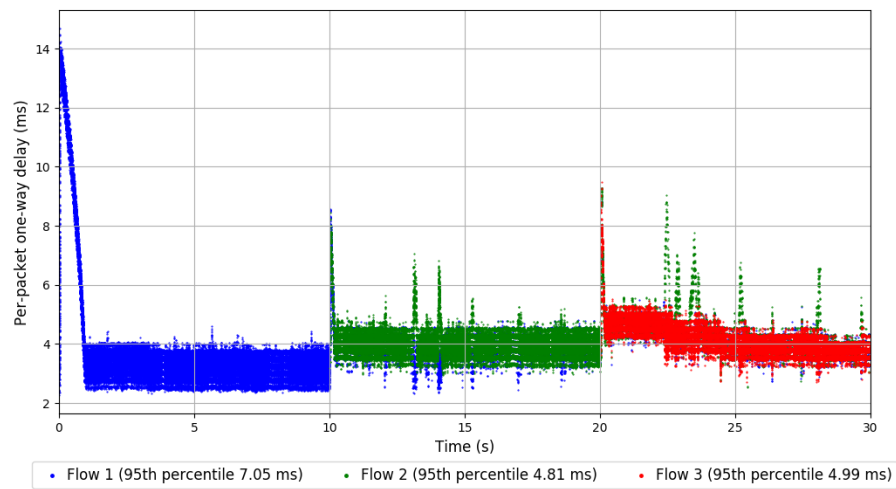
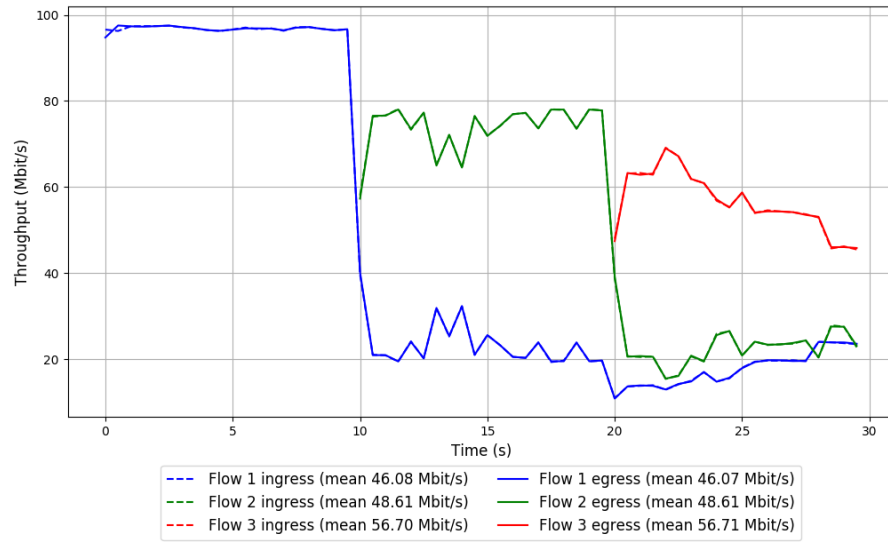
-- Flow 3:

Average throughput: 56.71 Mbit/s

95th percentile per-packet one-way delay: 4.988 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-01 01:51:06

End at: 2018-02-01 01:51:36

Local clock offset: 0.562 ms

Remote clock offset: 1.338 ms

Below is generated by plot.py at 2018-02-01 05:20:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 4.287 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 4.203 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.12 Mbit/s

95th percentile per-packet one-way delay: 4.283 ms

Loss rate: 0.00%

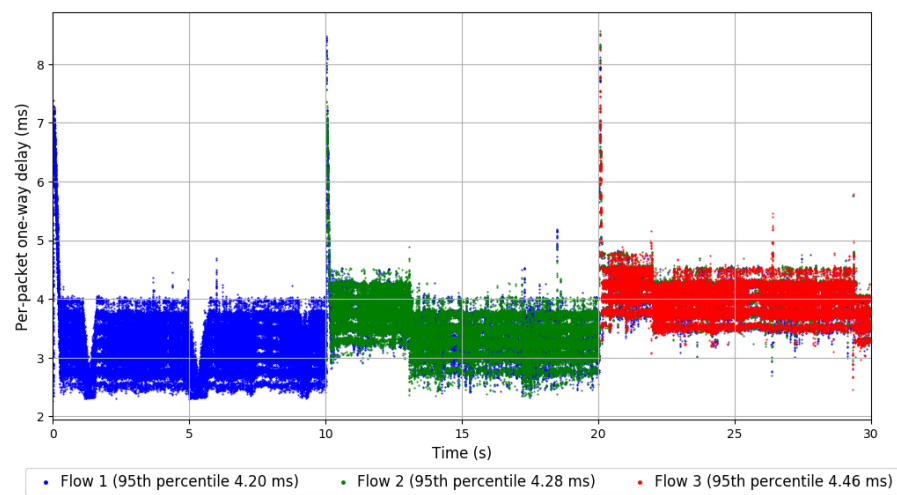
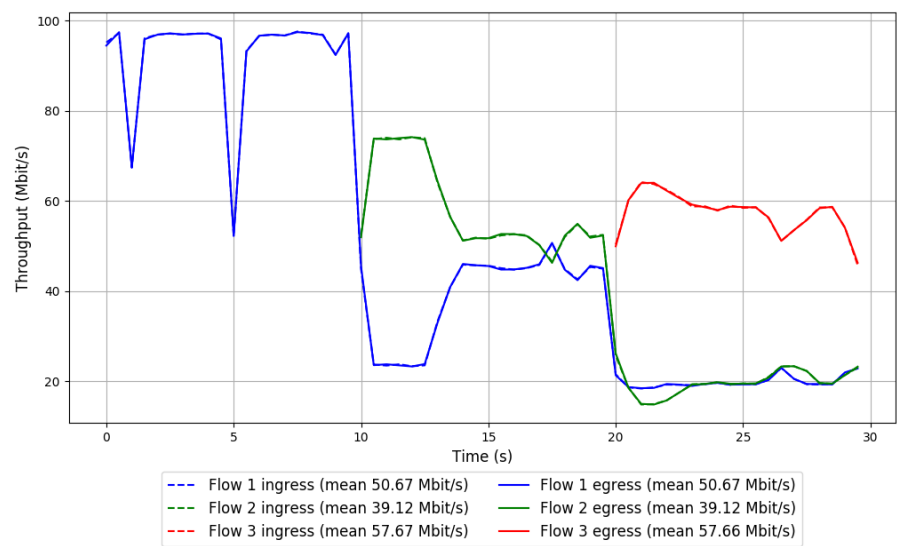
-- Flow 3:

Average throughput: 57.66 Mbit/s

95th percentile per-packet one-way delay: 4.456 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-01 02:12:51

End at: 2018-02-01 02:13:21

Local clock offset: 0.55 ms

Remote clock offset: 1.023 ms

Below is generated by plot.py at 2018-02-01 05:20:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 13.429 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 1.09 Mbit/s

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

Loss rate: 5.31%

-- Flow 2:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: 13.743 ms

Loss rate: 0.00%

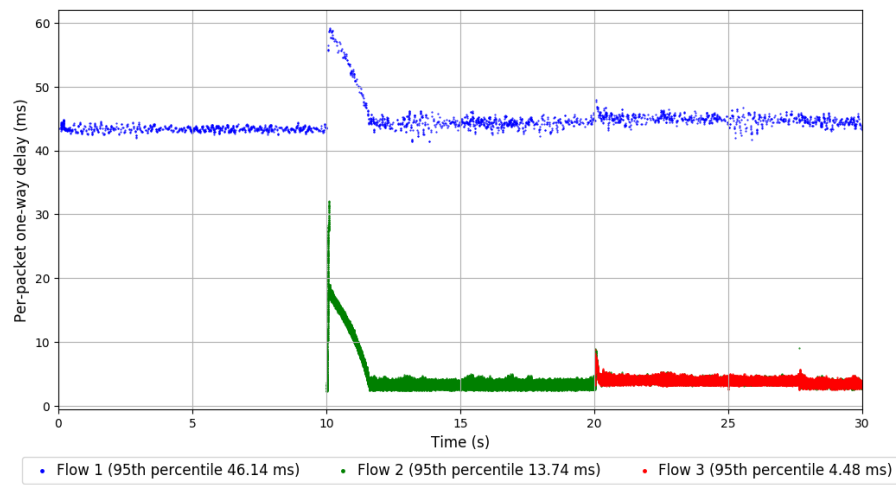
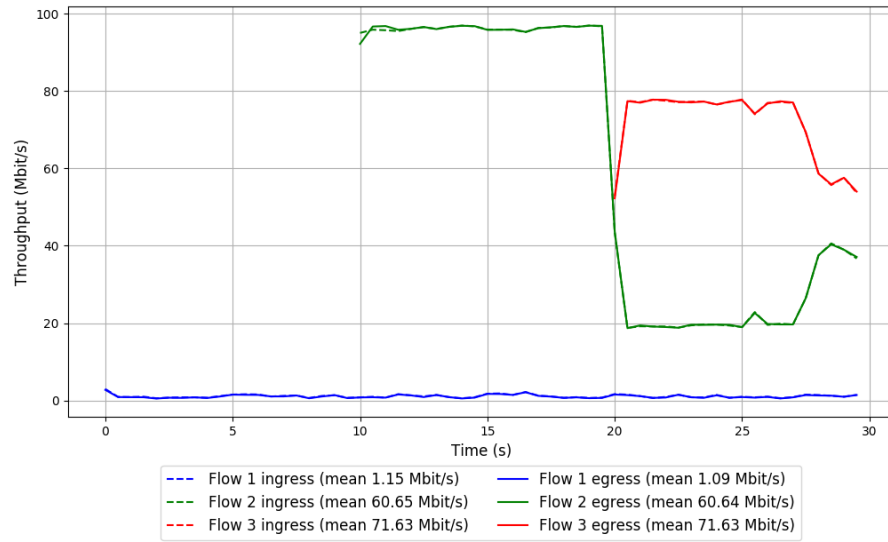
-- Flow 3:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 4.478 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

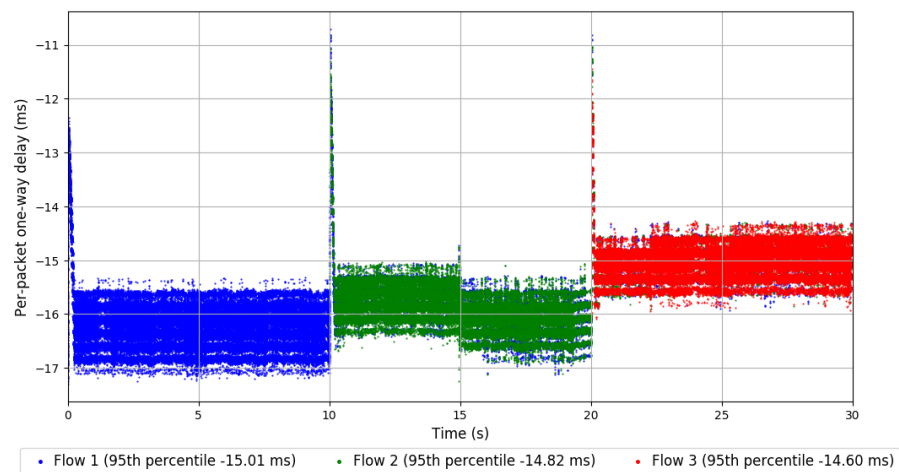
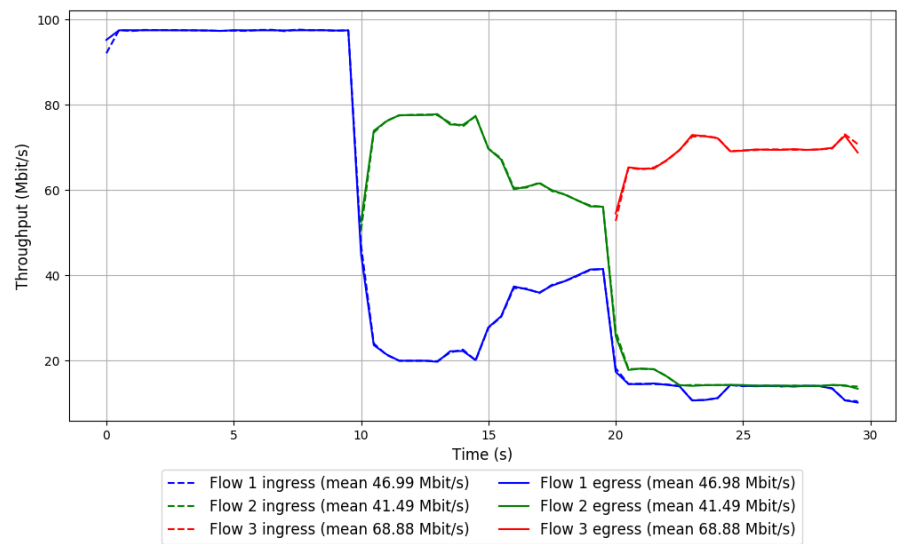


Run 5: Statistics of TCP Vegas

Start at: 2018-02-01 02:34:16
End at: 2018-02-01 02:34:46
Local clock offset: 0.367 ms
Remote clock offset: -18.825 ms

Below is generated by plot.py at 2018-02-01 05:20:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: -14.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: -15.012 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: -14.825 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.88 Mbit/s
95th percentile per-packet one-way delay: -14.598 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-01 02:55:30

End at: 2018-02-01 02:56:00

Local clock offset: 0.21 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2018-02-01 05:20:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 4.511 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 6.802 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 4.276 ms

Loss rate: 0.00%

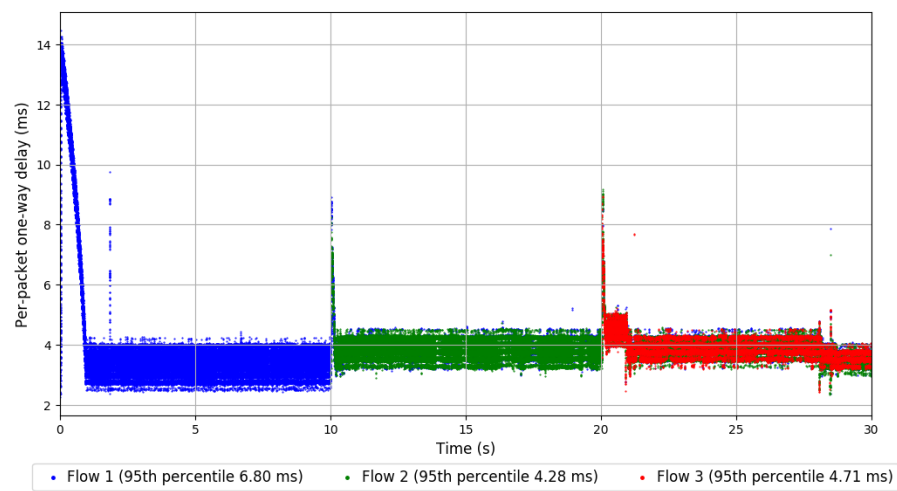
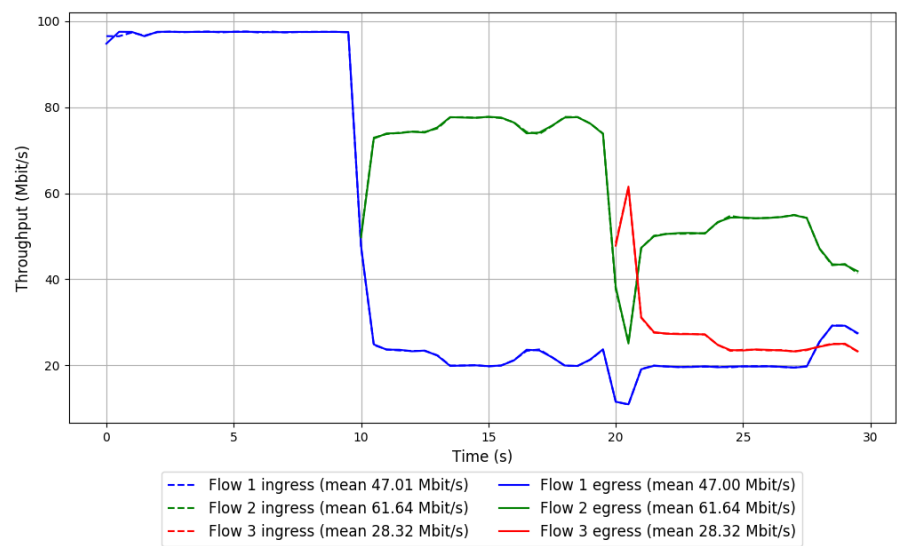
-- Flow 3:

Average throughput: 28.32 Mbit/s

95th percentile per-packet one-way delay: 4.711 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-01 03:16:21

End at: 2018-02-01 03:16:51

Local clock offset: -0.005 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-02-01 05:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 4.651 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 7.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.56 Mbit/s

95th percentile per-packet one-way delay: 4.598 ms

Loss rate: 0.00%

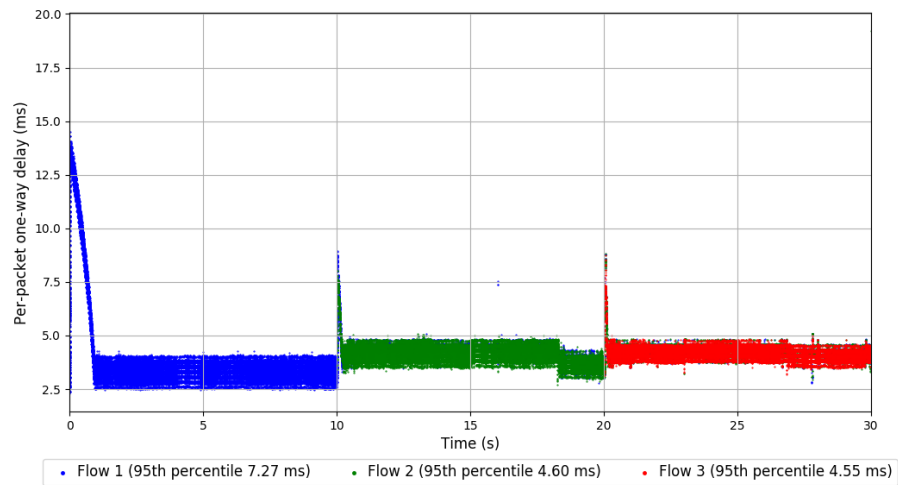
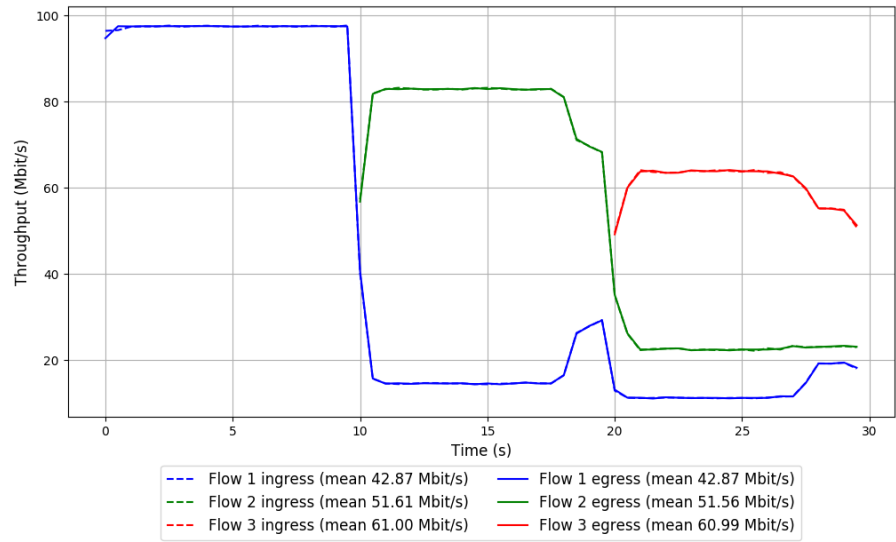
-- Flow 3:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 4.547 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-01 03:36:55

End at: 2018-02-01 03:37:25

Local clock offset: -0.202 ms

Remote clock offset: 0.68 ms

Below is generated by plot.py at 2018-02-01 05:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 4.698 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.16 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 4.458 ms

Loss rate: 0.00%

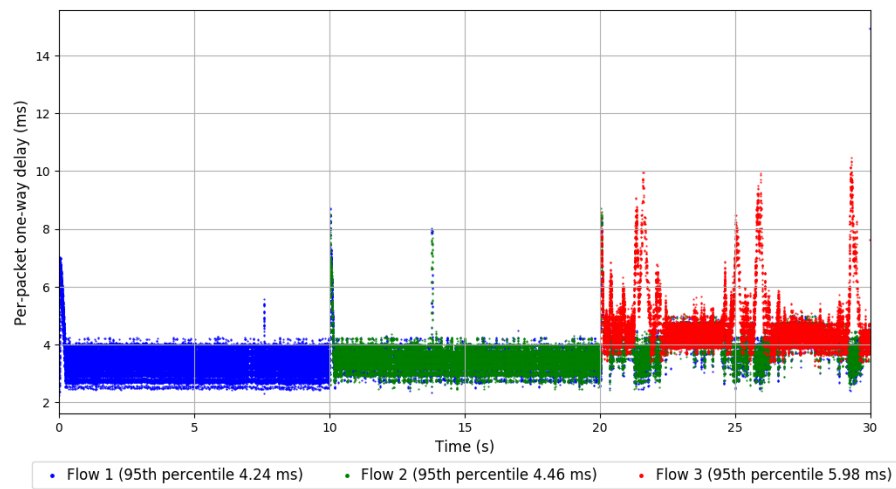
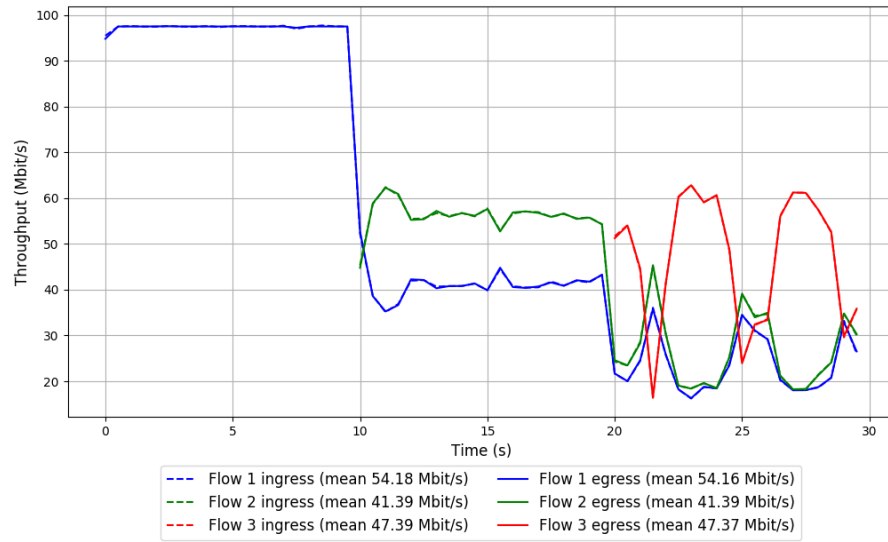
-- Flow 3:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 5.977 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-01 03:57:28

End at: 2018-02-01 03:57:58

Local clock offset: -0.247 ms

Remote clock offset: 1.615 ms

Below is generated by plot.py at 2018-02-01 05:20:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 6.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 13.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.61 Mbit/s

95th percentile per-packet one-way delay: 5.223 ms

Loss rate: 0.00%

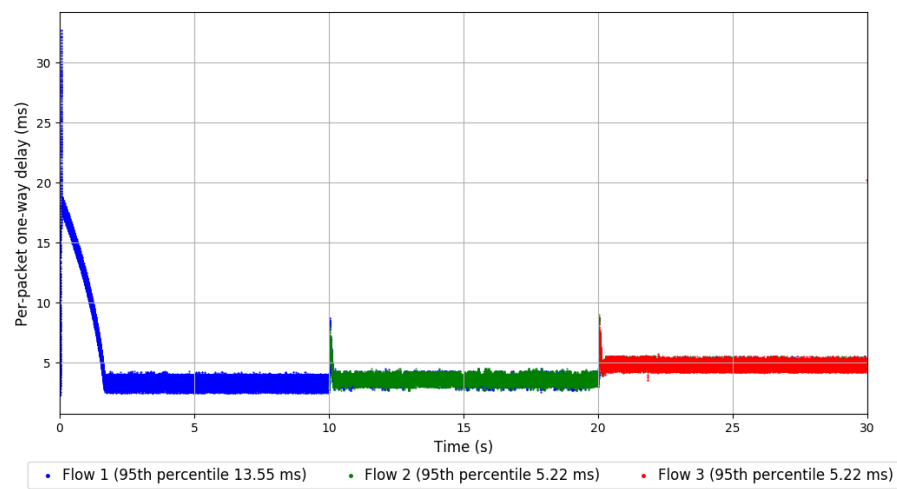
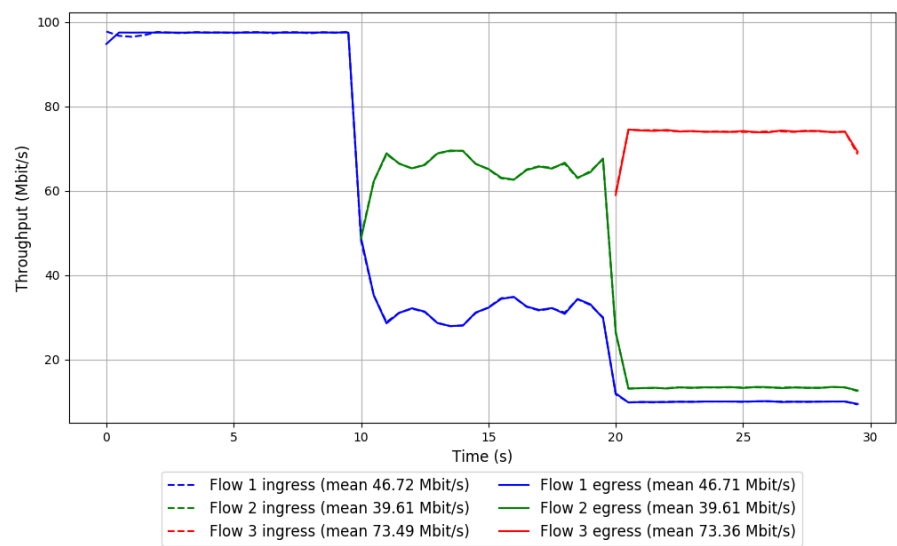
-- Flow 3:

Average throughput: 73.36 Mbit/s

95th percentile per-packet one-way delay: 5.225 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-01 04:18:02

End at: 2018-02-01 04:18:32

Local clock offset: -0.318 ms

Remote clock offset: 1.885 ms

Below is generated by plot.py at 2018-02-01 05:20:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 4.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 5.999 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.86 Mbit/s

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

Loss rate: 0.00%

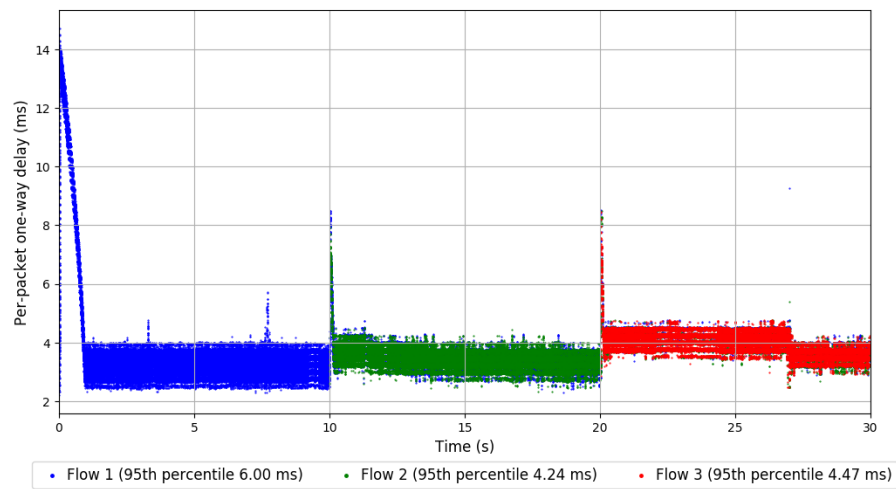
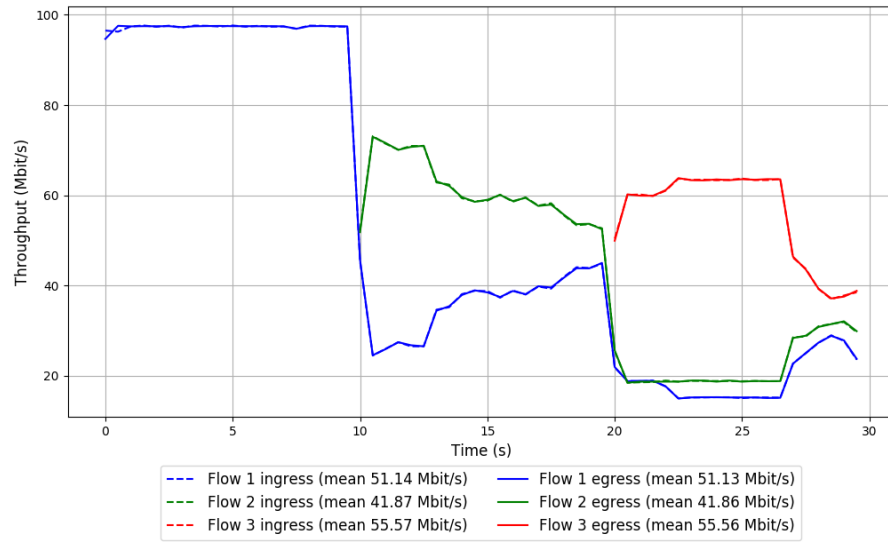
-- Flow 3:

Average throughput: 55.56 Mbit/s

95th percentile per-packet one-way delay: 4.470 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-01 01:14:54

End at: 2018-02-01 01:15:24

Local clock offset: 0.579 ms

Remote clock offset: 1.304 ms

Below is generated by plot.py at 2018-02-01 05:21:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 68.096 ms

Loss rate: 11.85%

-- Flow 1:

Average throughput: 26.47 Mbit/s

95th percentile per-packet one-way delay: 72.094 ms

Loss rate: 16.07%

-- Flow 2:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 32.609 ms

Loss rate: 7.74%

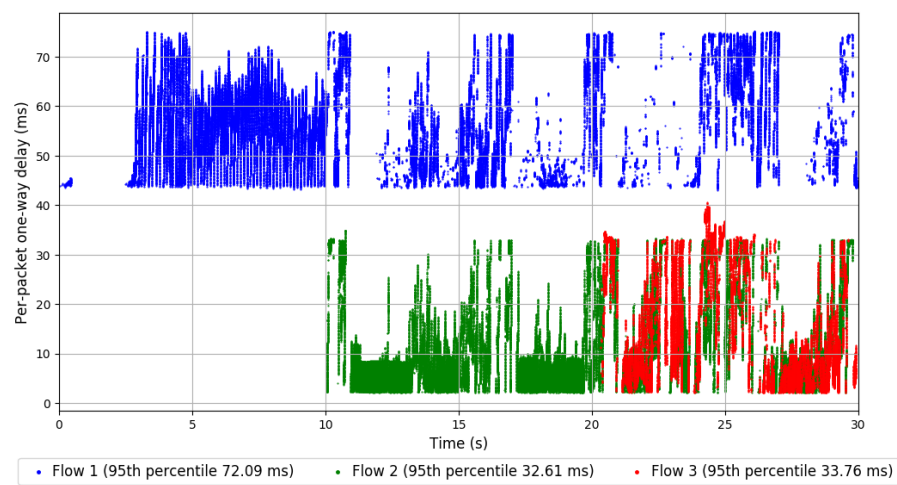
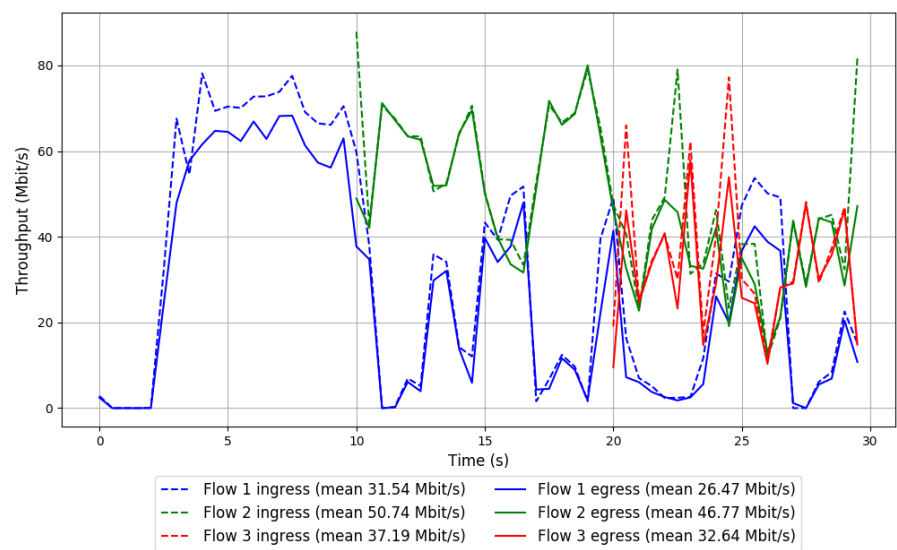
-- Flow 3:

Average throughput: 32.64 Mbit/s

95th percentile per-packet one-way delay: 33.758 ms

Loss rate: 12.24%

Run 1: Report of Verus — Data Link

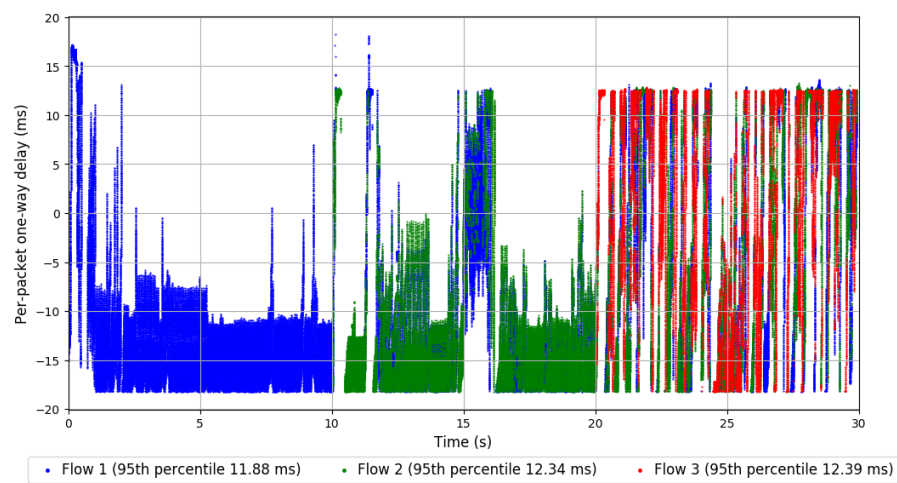
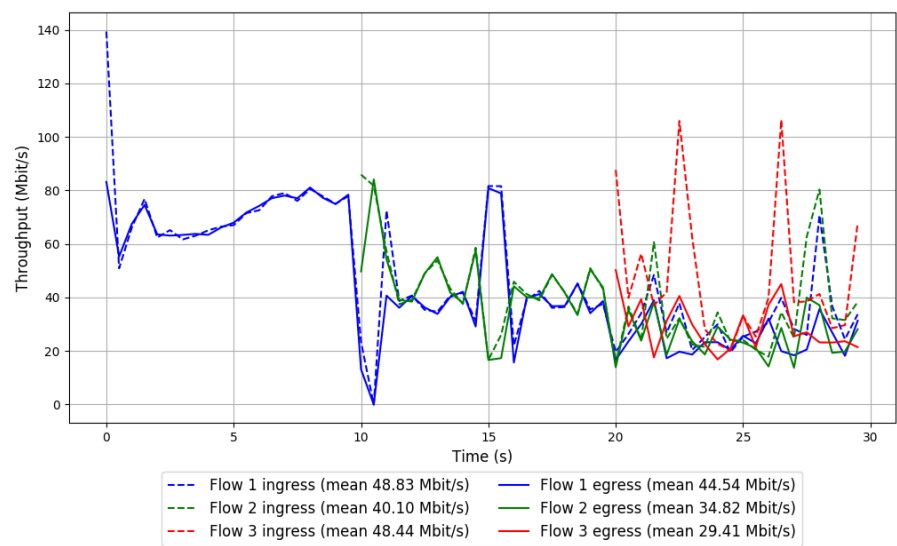


Run 2: Statistics of Verus

Start at: 2018-02-01 01:36:35
End at: 2018-02-01 01:37:05
Local clock offset: 0.558 ms
Remote clock offset: -18.905 ms

Below is generated by plot.py at 2018-02-01 05:21:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 12.339 ms
Loss rate: 15.26%
-- Flow 1:
Average throughput: 44.54 Mbit/s
95th percentile per-packet one-way delay: 11.880 ms
Loss rate: 8.72%
-- Flow 2:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 12.336 ms
Loss rate: 13.03%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 12.391 ms
Loss rate: 39.10%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-01 01:58:24

End at: 2018-02-01 01:58:54

Local clock offset: 0.54 ms

Remote clock offset: 1.198 ms

Below is generated by plot.py at 2018-02-01 05:21:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 71.094 ms

Loss rate: 30.46%

-- Flow 1:

Average throughput: 43.20 Mbit/s

95th percentile per-packet one-way delay: 32.879 ms

Loss rate: 32.69%

-- Flow 2:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 73.073 ms

Loss rate: 29.44%

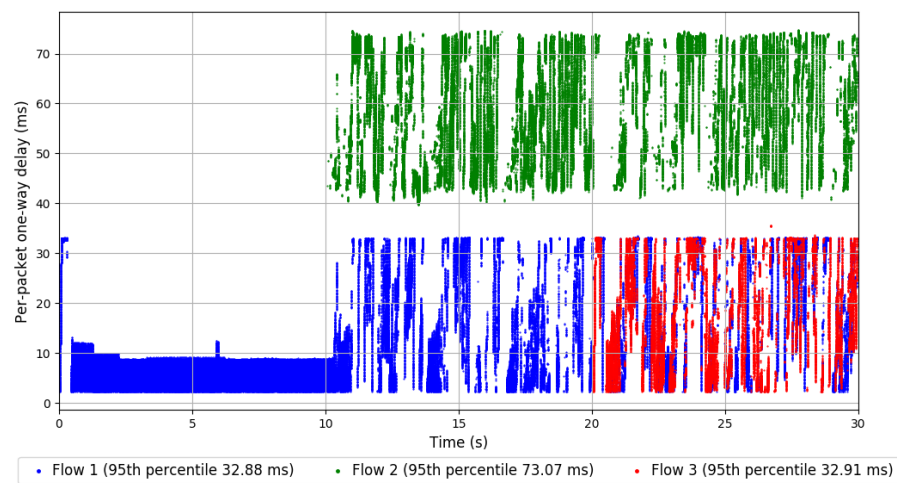
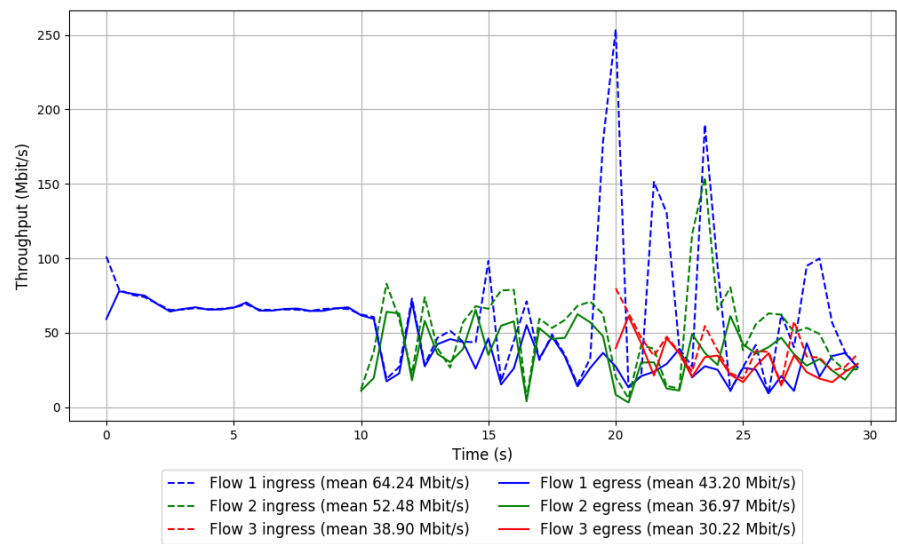
-- Flow 3:

Average throughput: 30.22 Mbit/s

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

Loss rate: 22.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-01 02:20:05

End at: 2018-02-01 02:20:35

Local clock offset: 0.532 ms

Remote clock offset: 0.943 ms

Below is generated by plot.py at 2018-02-01 05:21:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 30.229 ms

Loss rate: 6.59%

-- Flow 1:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 25.409 ms

Loss rate: 4.47%

-- Flow 2:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 30.606 ms

Loss rate: 7.63%

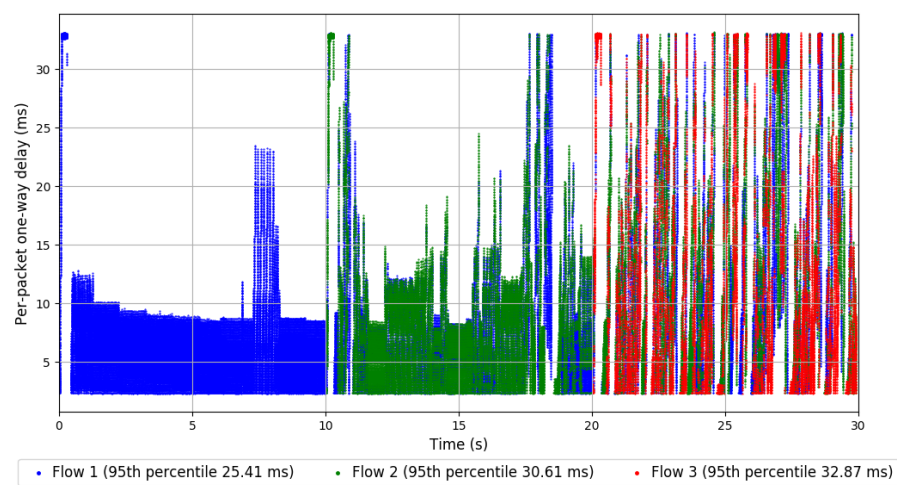
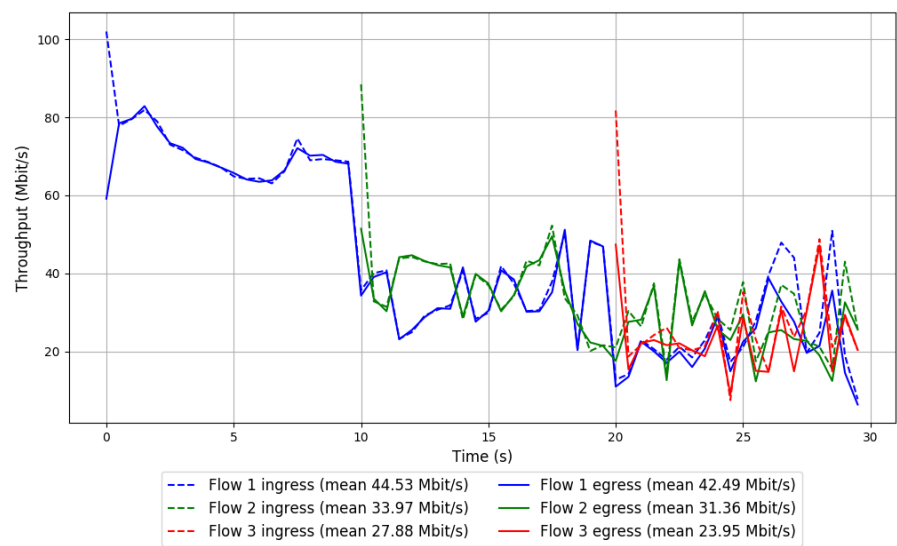
-- Flow 3:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 32.867 ms

Loss rate: 14.16%

Run 4: Report of Verus — Data Link

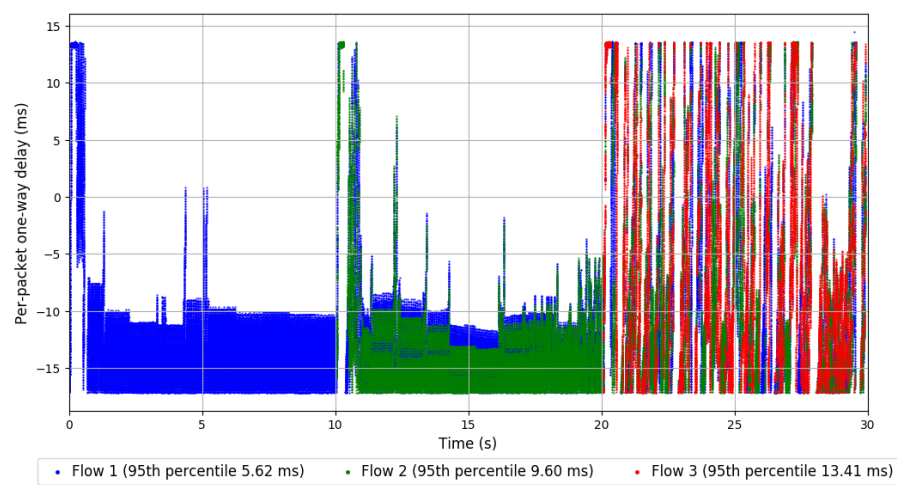
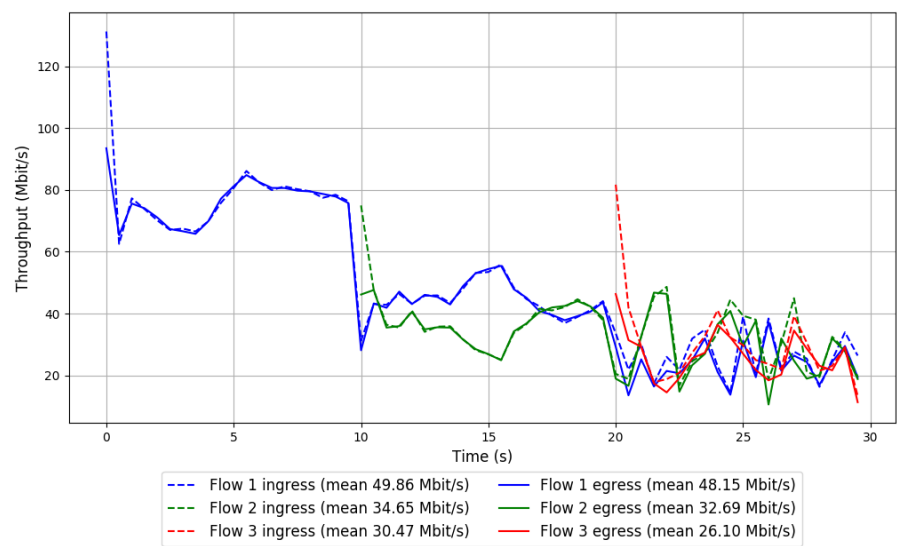


Run 5: Statistics of Verus

Start at: 2018-02-01 02:41:23
End at: 2018-02-01 02:41:53
Local clock offset: 0.316 ms
Remote clock offset: -18.781 ms

Below is generated by plot.py at 2018-02-01 05:21:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.51 Mbit/s
95th percentile per-packet one-way delay: 9.549 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 5.616 ms
Loss rate: 3.38%
-- Flow 2:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 9.596 ms
Loss rate: 5.60%
-- Flow 3:
Average throughput: 26.10 Mbit/s
95th percentile per-packet one-way delay: 13.411 ms
Loss rate: 14.24%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-01 03:02:34

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

Local clock offset: 0.186 ms

Remote clock offset: 0.476 ms

Below is generated by plot.py at 2018-02-01 05:22:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.34 Mbit/s

95th percentile per-packet one-way delay: 32.833 ms

Loss rate: 19.08%

-- Flow 1:

Average throughput: 46.18 Mbit/s

95th percentile per-packet one-way delay: 32.047 ms

Loss rate: 9.82%

-- Flow 2:

Average throughput: 33.45 Mbit/s

95th percentile per-packet one-way delay: 32.884 ms

Loss rate: 28.17%

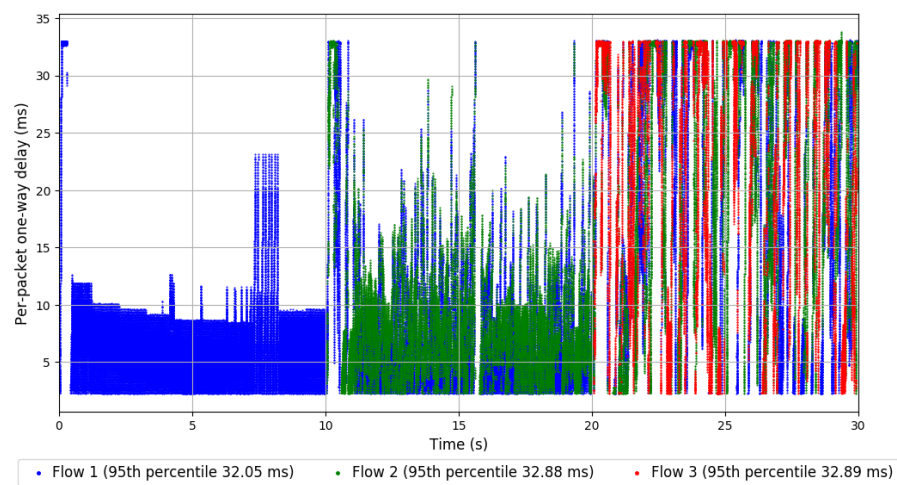
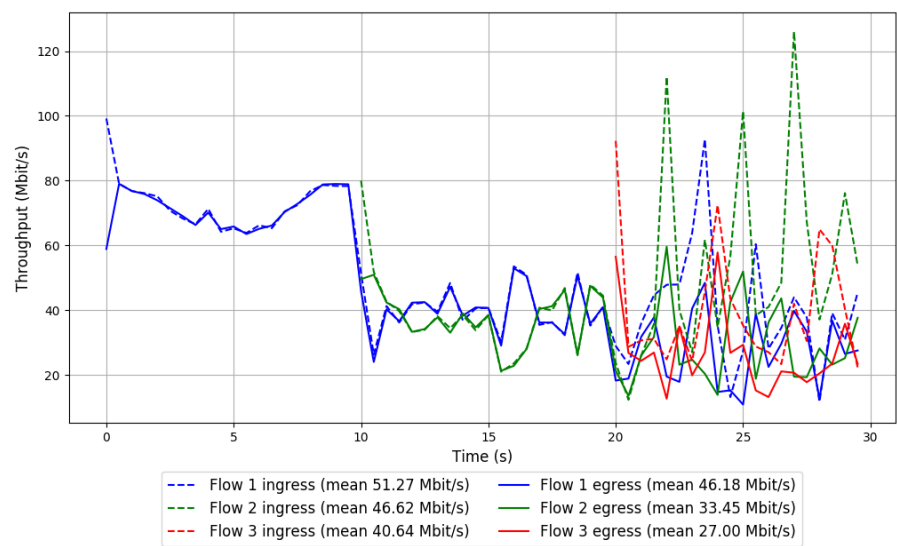
-- Flow 3:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 32.886 ms

Loss rate: 33.49%

Run 6: Report of Verus — Data Link

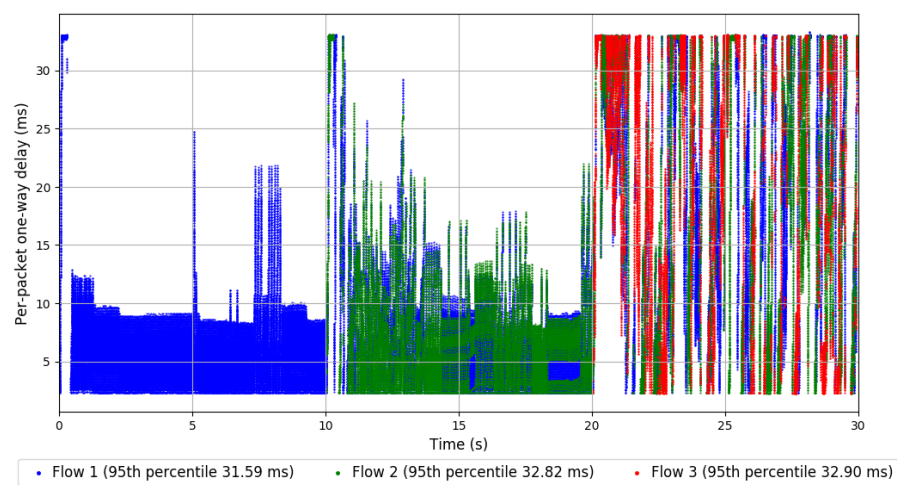
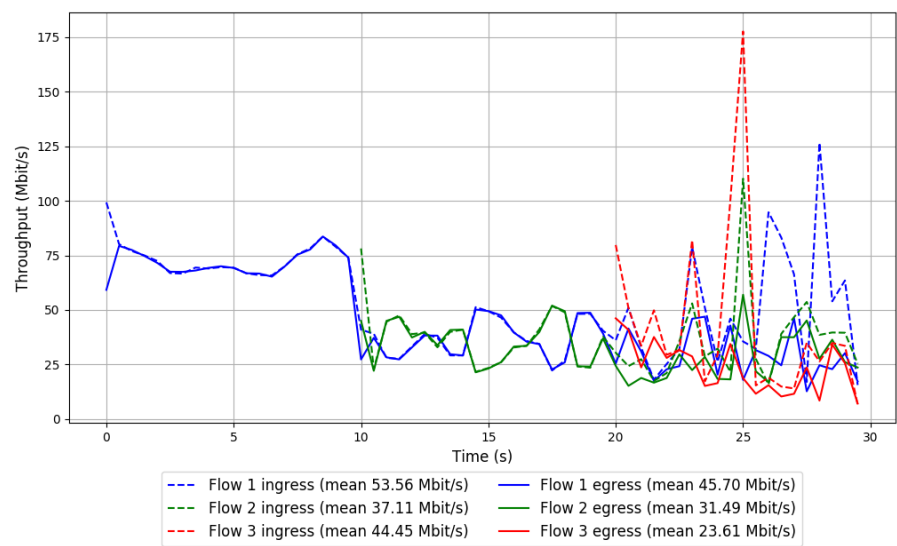


Run 7: Statistics of Verus

Start at: 2018-02-01 03:23:13
End at: 2018-02-01 03:23:43
Local clock offset: -0.009 ms
Remote clock offset: 0.672 ms

Below is generated by plot.py at 2018-02-01 05:22:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.47 Mbit/s
95th percentile per-packet one-way delay: 32.732 ms
Loss rate: 19.81%
-- Flow 1:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 31.585 ms
Loss rate: 14.60%
-- Flow 2:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 32.822 ms
Loss rate: 15.02%
-- Flow 3:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 32.901 ms
Loss rate: 46.81%

Run 7: Report of Verus — Data Link

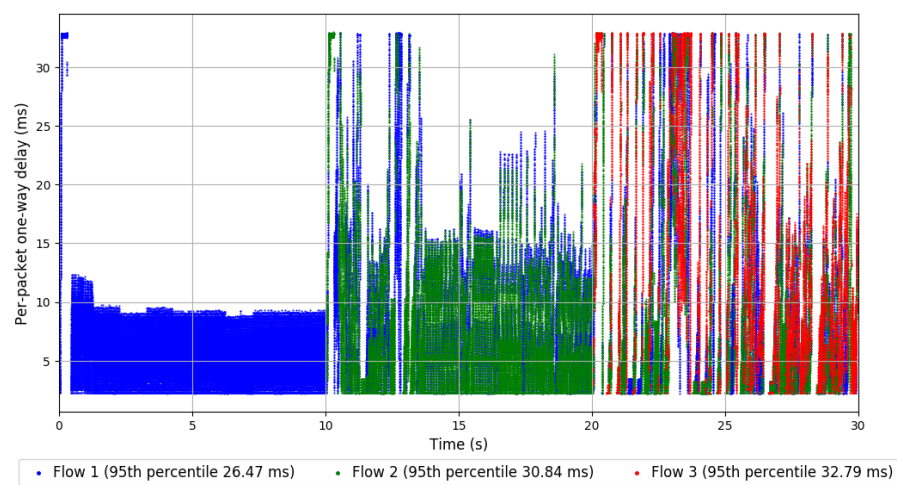
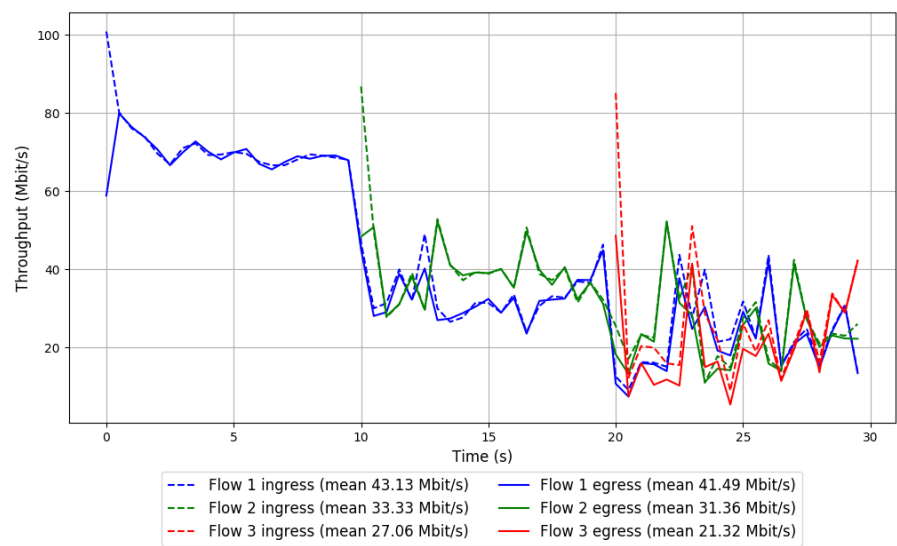


Run 8: Statistics of Verus

Start at: 2018-02-01 03:43:47
End at: 2018-02-01 03:44:17
Local clock offset: -0.174 ms
Remote clock offset: 1.038 ms

```
# Below is generated by plot.py at 2018-02-01 05:22:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.43 Mbit/s
95th percentile per-packet one-way delay: 30.324 ms
Loss rate: 6.52%
-- Flow 1:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: 26.469 ms
Loss rate: 3.78%
-- Flow 2:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 30.835 ms
Loss rate: 5.91%
-- Flow 3:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 32.789 ms
Loss rate: 21.19%
```

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-01 04:04:21

End at: 2018-02-01 04:04:51

Local clock offset: -0.274 ms

Remote clock offset: 1.694 ms

Below is generated by plot.py at 2018-02-01 05:22:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 32.637 ms

Loss rate: 15.27%

-- Flow 1:

Average throughput: 44.31 Mbit/s

95th percentile per-packet one-way delay: 29.948 ms

Loss rate: 7.58%

-- Flow 2:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 32.566 ms

Loss rate: 11.26%

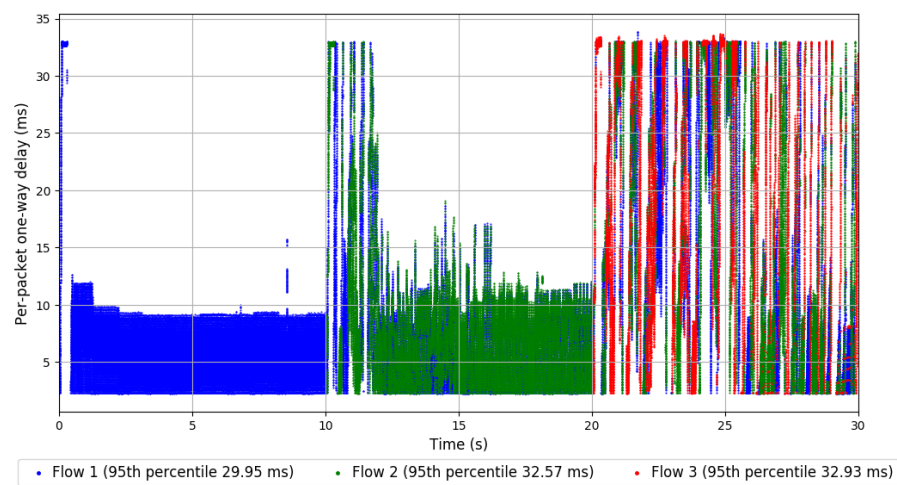
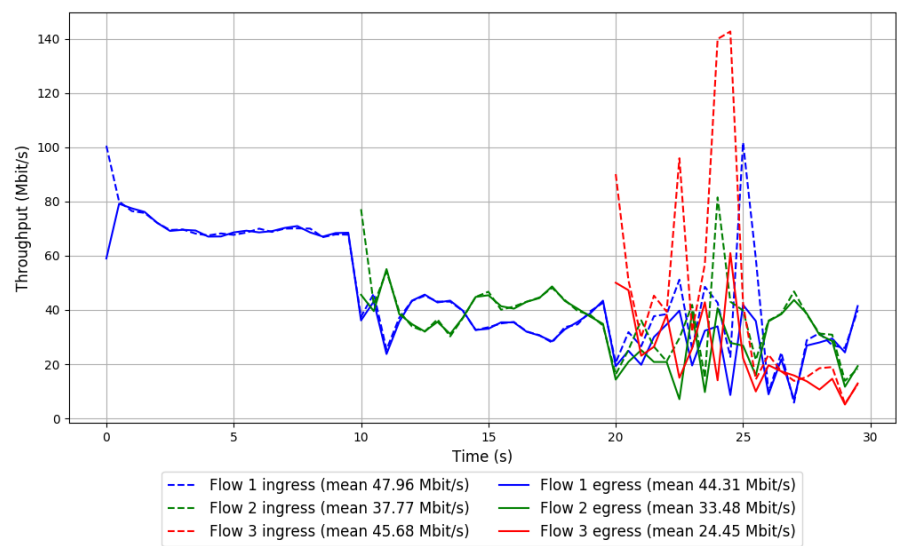
-- Flow 3:

Average throughput: 24.45 Mbit/s

95th percentile per-packet one-way delay: 32.926 ms

Loss rate: 46.32%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-01 04:24:55

End at: 2018-02-01 04:25:25

Local clock offset: -0.295 ms

Remote clock offset: 2.013 ms

Below is generated by plot.py at 2018-02-01 05:22:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 31.474 ms

Loss rate: 8.83%

-- Flow 1:

Average throughput: 46.83 Mbit/s

95th percentile per-packet one-way delay: 29.341 ms

Loss rate: 6.48%

-- Flow 2:

Average throughput: 29.99 Mbit/s

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

Loss rate: 14.15%

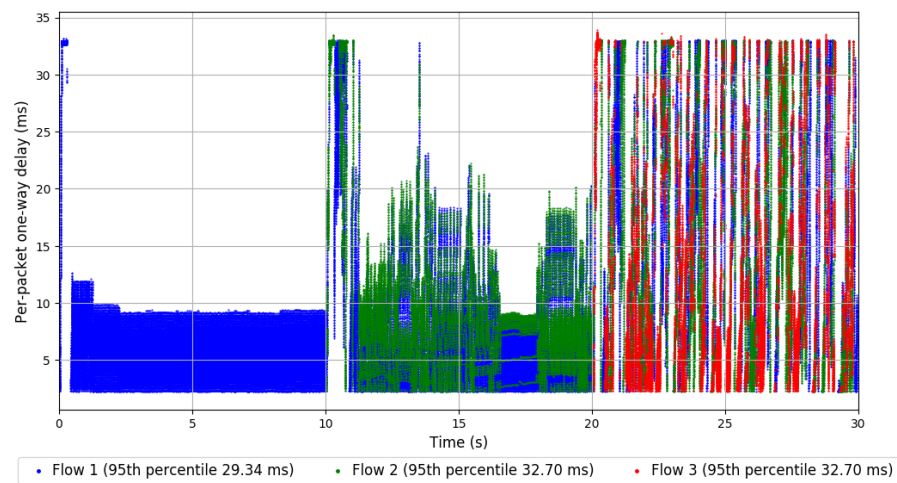
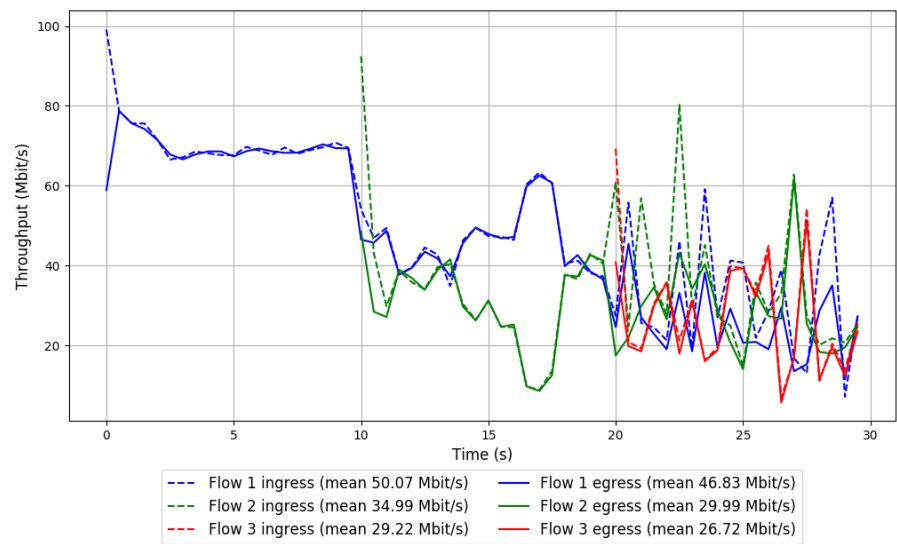
-- Flow 3:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 32.703 ms

Loss rate: 8.28%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-01 01:10:02

End at: 2018-02-01 01:10:32

Local clock offset: 0.481 ms

Remote clock offset: 1.29 ms

Below is generated by plot.py at 2018-02-01 05:23:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 42.892 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 43.170 ms

Loss rate: 8.88%

-- Flow 2:

Average throughput: 51.31 Mbit/s

95th percentile per-packet one-way delay: 2.739 ms

Loss rate: 0.00%

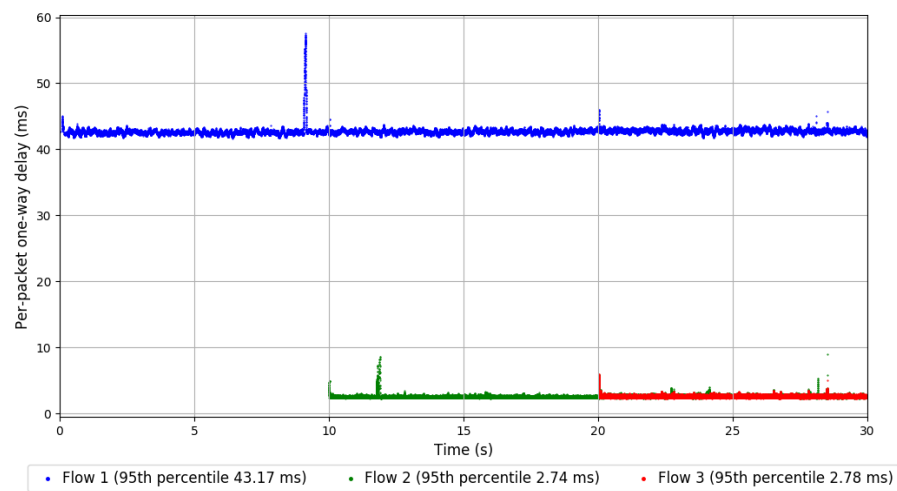
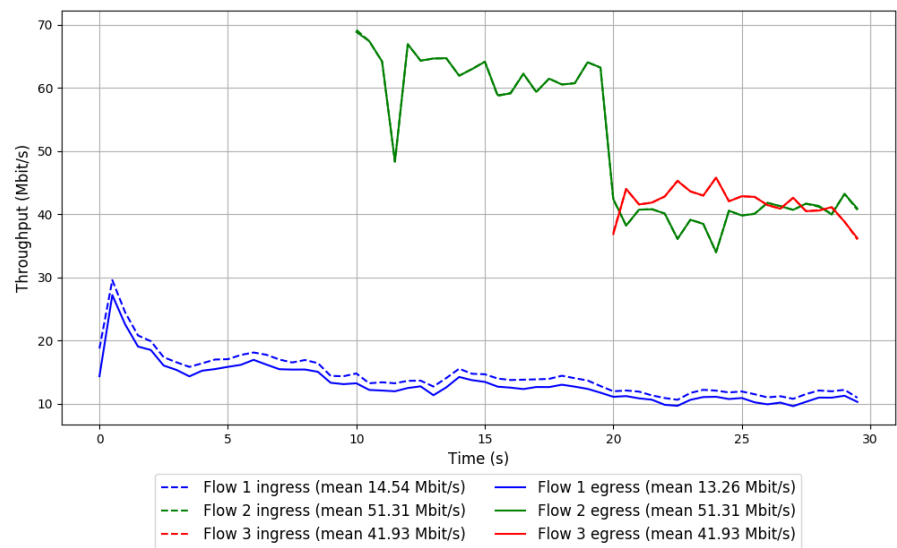
-- Flow 3:

Average throughput: 41.93 Mbit/s

95th percentile per-packet one-way delay: 2.779 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-01 01:31:49

End at: 2018-02-01 01:32:19

Local clock offset: 0.61 ms

Remote clock offset: 1.83 ms

Below is generated by plot.py at 2018-02-01 05:23:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 3.109 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 2.954 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.98 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 0.00%

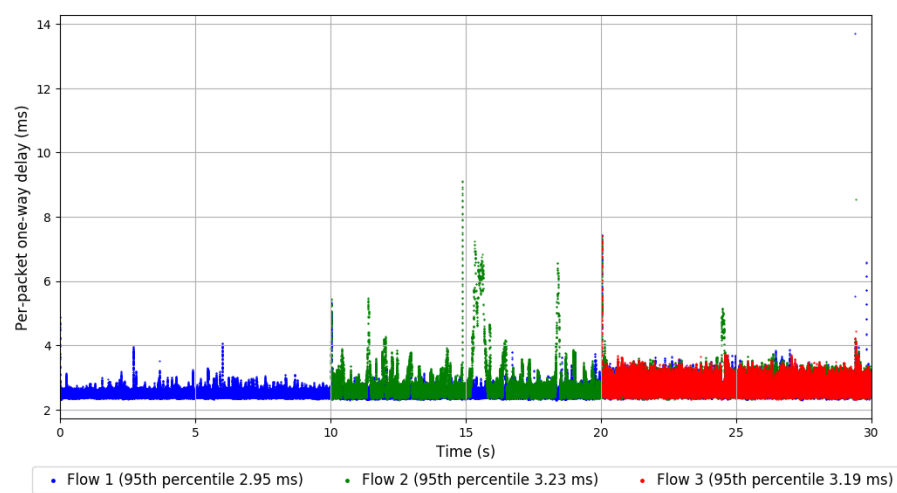
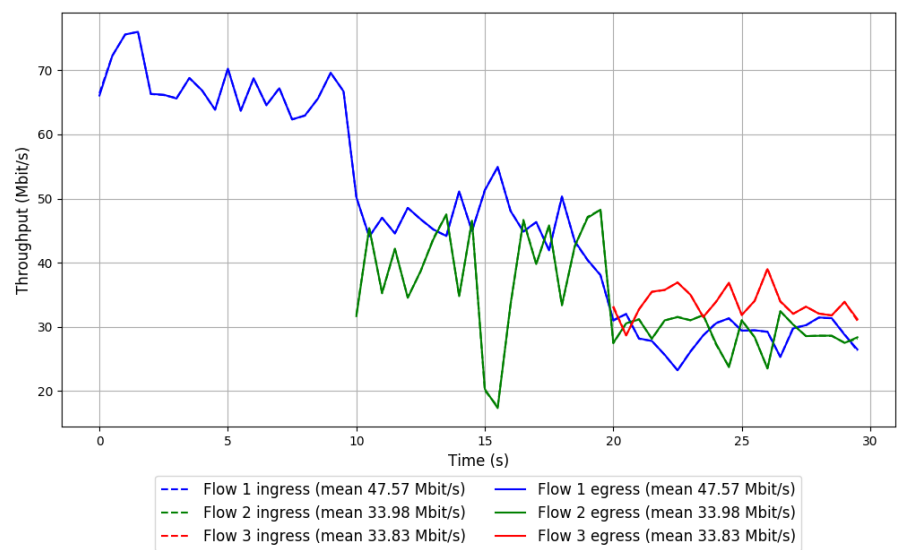
-- Flow 3:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 3.193 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-01 01:53:40

End at: 2018-02-01 01:54:10

Local clock offset: 0.563 ms

Remote clock offset: 1.261 ms

Below is generated by plot.py at 2018-02-01 05:24:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.37 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 2.898 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.40 Mbit/s

95th percentile per-packet one-way delay: 3.006 ms

Loss rate: 0.00%

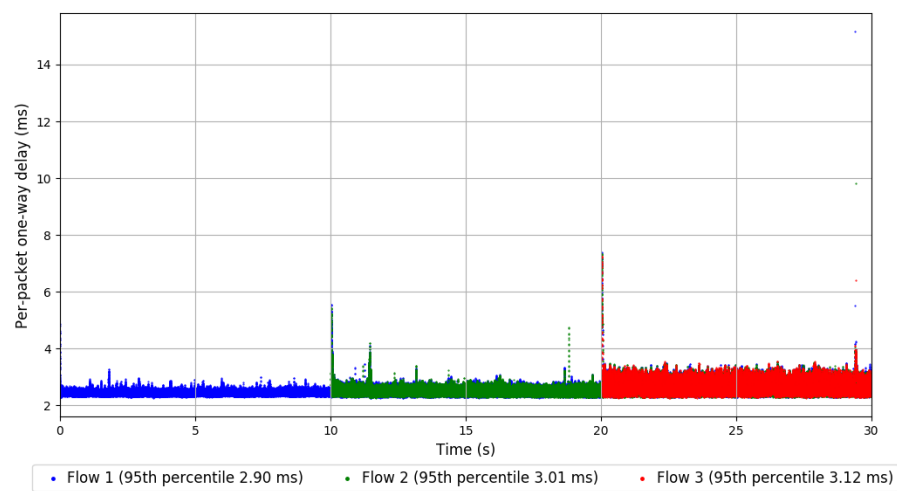
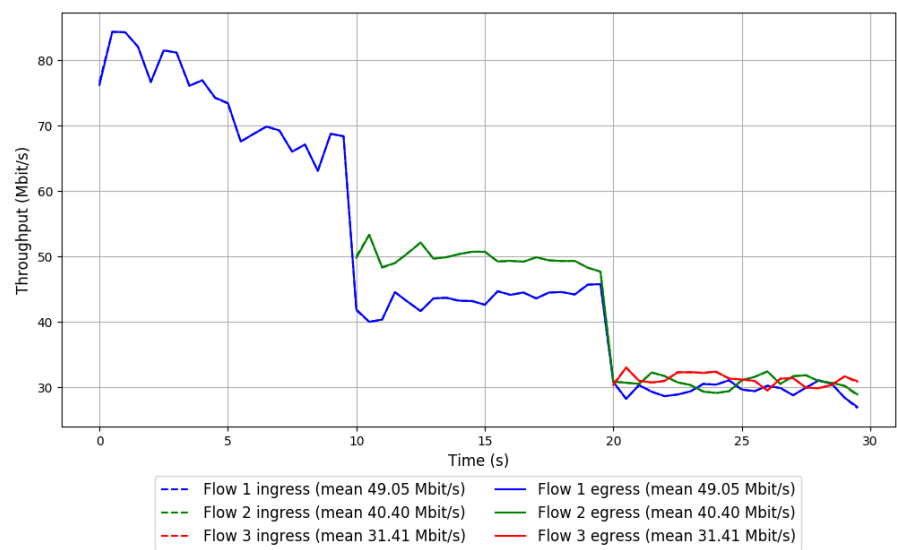
-- Flow 3:

Average throughput: 31.41 Mbit/s

95th percentile per-packet one-way delay: 3.123 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-01 02:15:14

End at: 2018-02-01 02:15:44

Local clock offset: 0.533 ms

Remote clock offset: 0.984 ms

Below is generated by plot.py at 2018-02-01 05:24:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 3.035 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.15 Mbit/s

95th percentile per-packet one-way delay: 2.925 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.86 Mbit/s

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

Loss rate: 0.00%

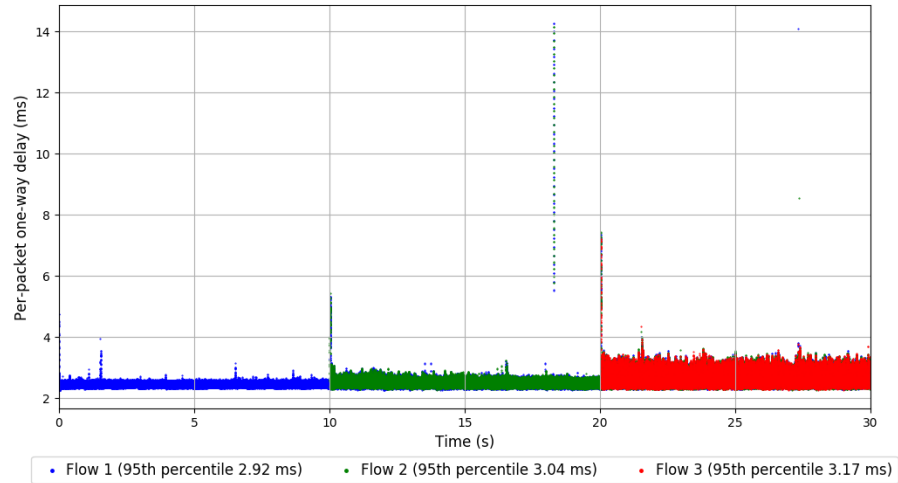
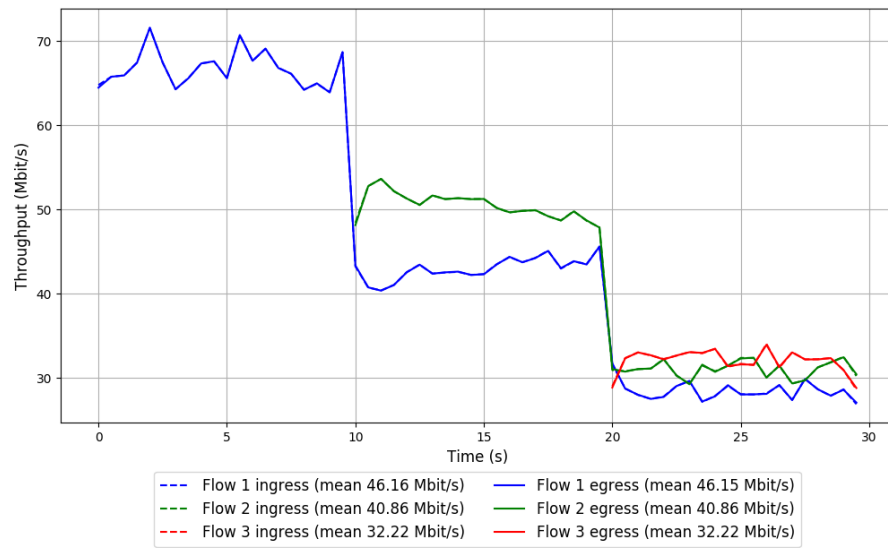
-- Flow 3:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 3.169 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-01 02:36:41

End at: 2018-02-01 02:37:11

Local clock offset: 0.411 ms

Remote clock offset: 0.806 ms

Below is generated by plot.py at 2018-02-01 05:24:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 3.106 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 2.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 3.129 ms

Loss rate: 0.00%

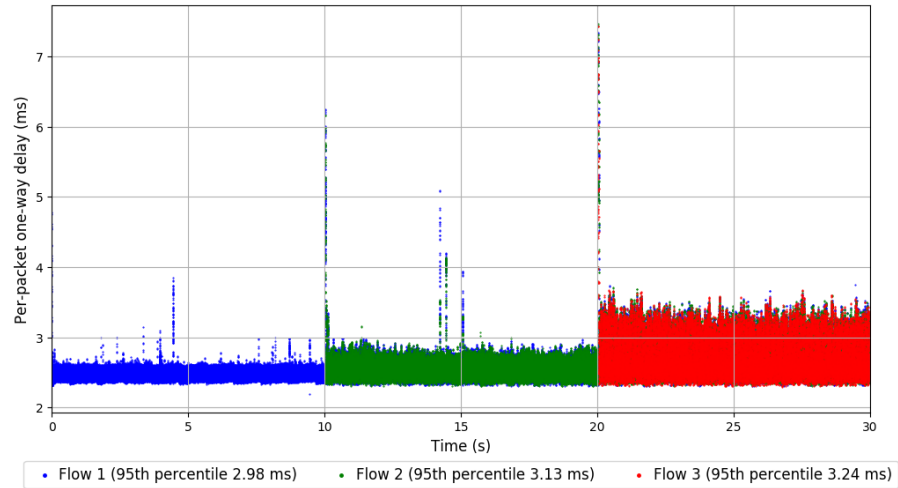
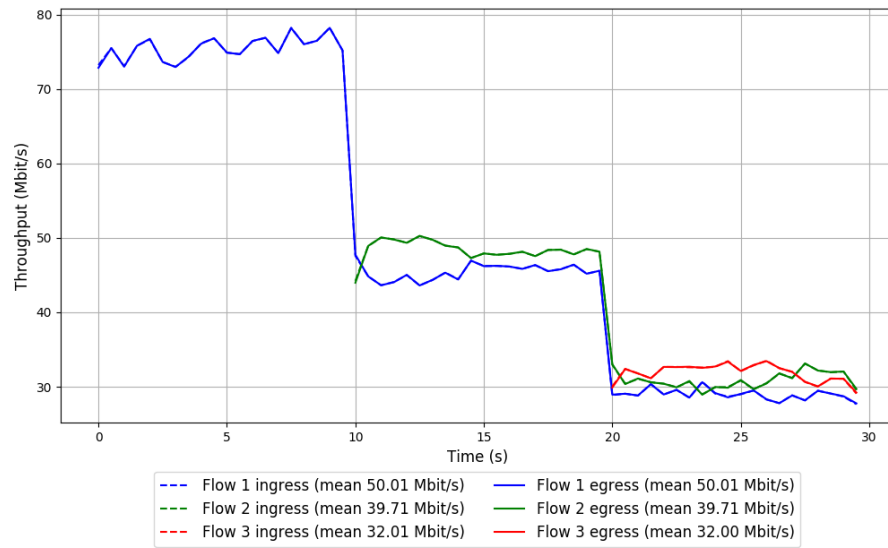
-- Flow 3:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 3.241 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-01 02:57:54

End at: 2018-02-01 02:58:24

Local clock offset: 0.146 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2018-02-01 05:24:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 3.105 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.66 Mbit/s

95th percentile per-packet one-way delay: 2.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.97 Mbit/s

95th percentile per-packet one-way delay: 3.126 ms

Loss rate: 0.00%

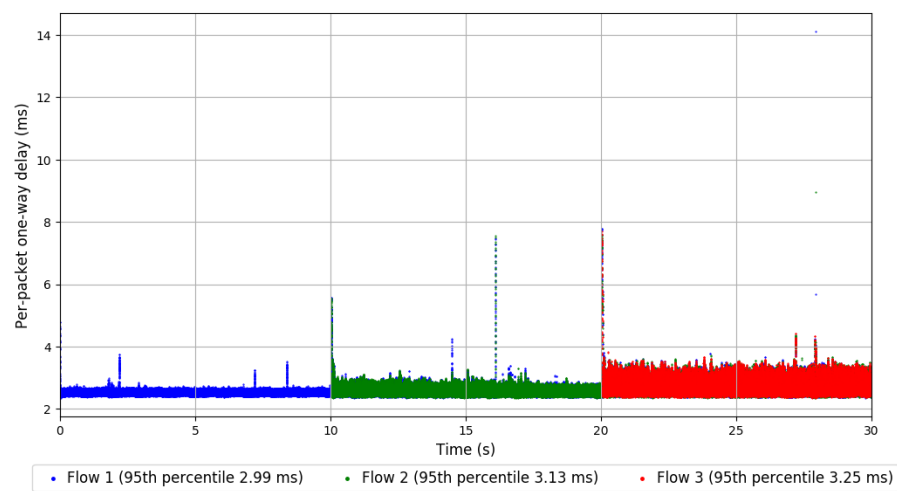
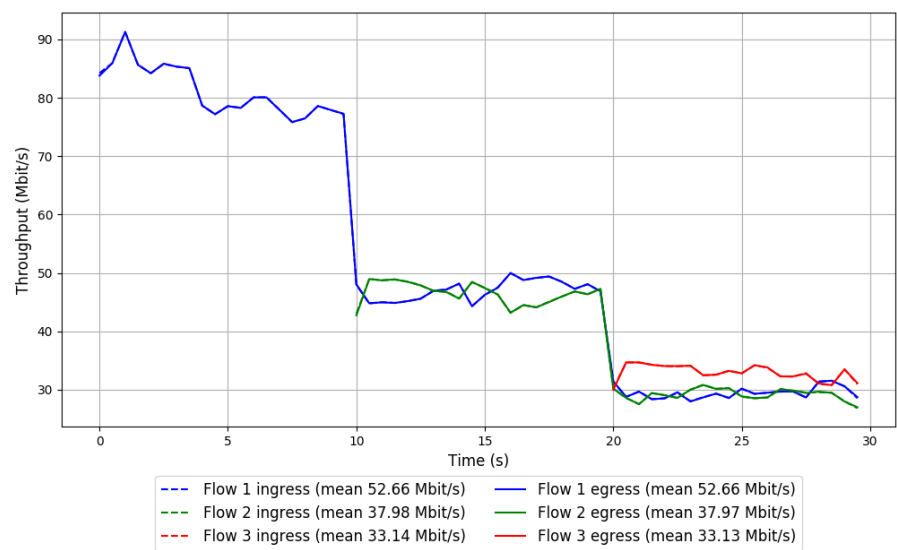
-- Flow 3:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 3.252 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-01 03:18:41

End at: 2018-02-01 03:19:11

Local clock offset: 0.054 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-02-01 05:24:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 2.940 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.93 Mbit/s

95th percentile per-packet one-way delay: 2.809 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 2.961 ms

Loss rate: 0.00%

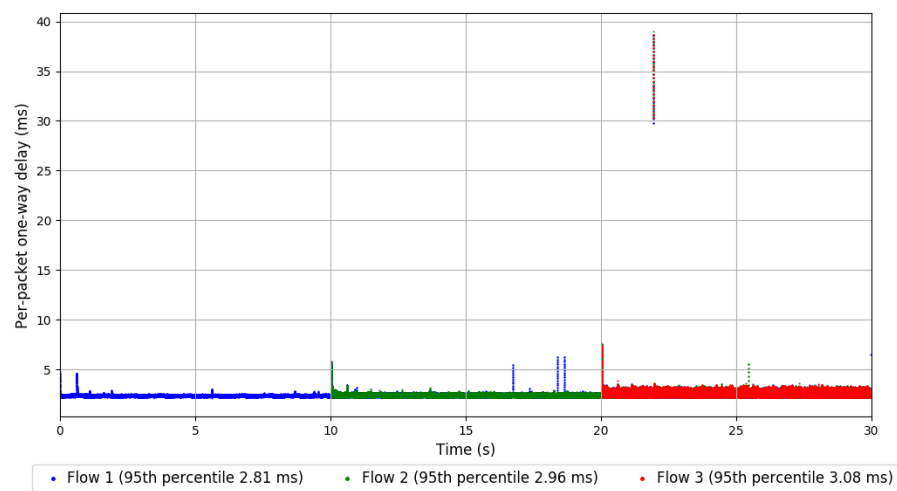
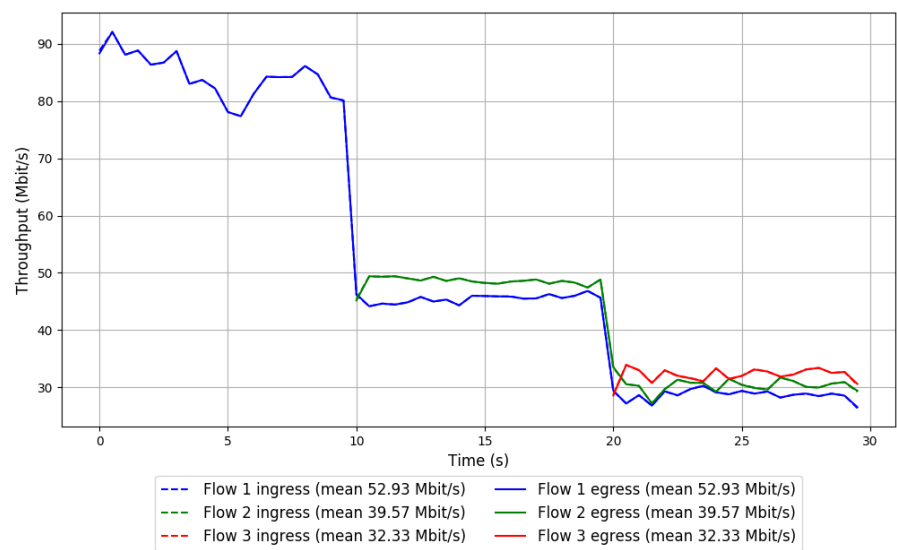
-- Flow 3:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 3.079 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

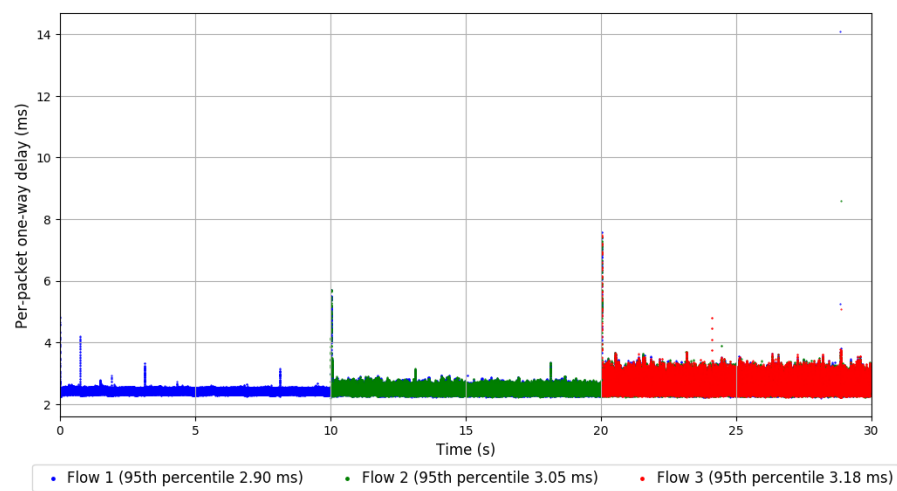
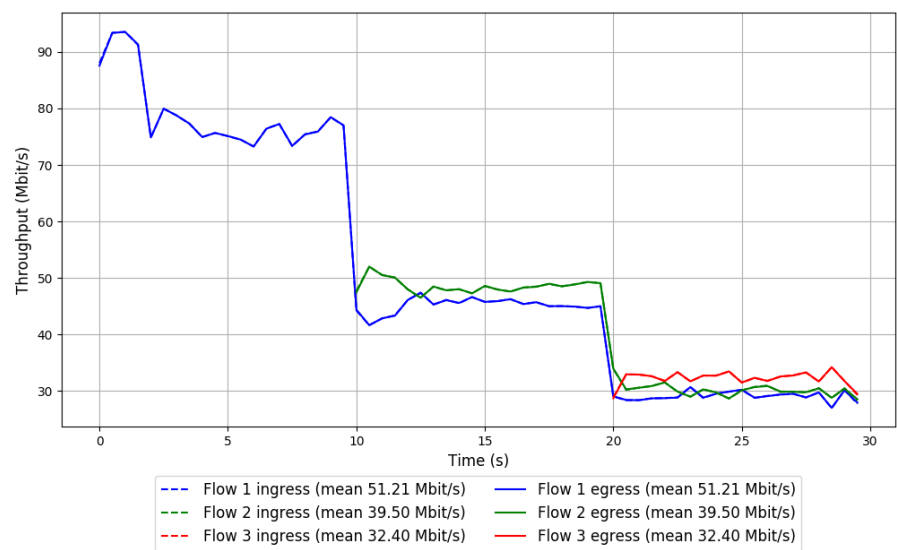


Run 8: Statistics of Copa

Start at: 2018-02-01 03:39:14
End at: 2018-02-01 03:39:44
Local clock offset: -0.112 ms
Remote clock offset: 0.872 ms

```
# Below is generated by plot.py at 2018-02-01 05:24:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.27 Mbit/s
95th percentile per-packet one-way delay: 3.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.21 Mbit/s
95th percentile per-packet one-way delay: 2.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 3.051 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 3.179 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-01 03:59:48

End at: 2018-02-01 04:00:18

Local clock offset: -0.304 ms

Remote clock offset: 1.637 ms

Below is generated by plot.py at 2018-02-01 05:25:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.72 Mbit/s

95th percentile per-packet one-way delay: 3.110 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 2.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 3.133 ms

Loss rate: 0.00%

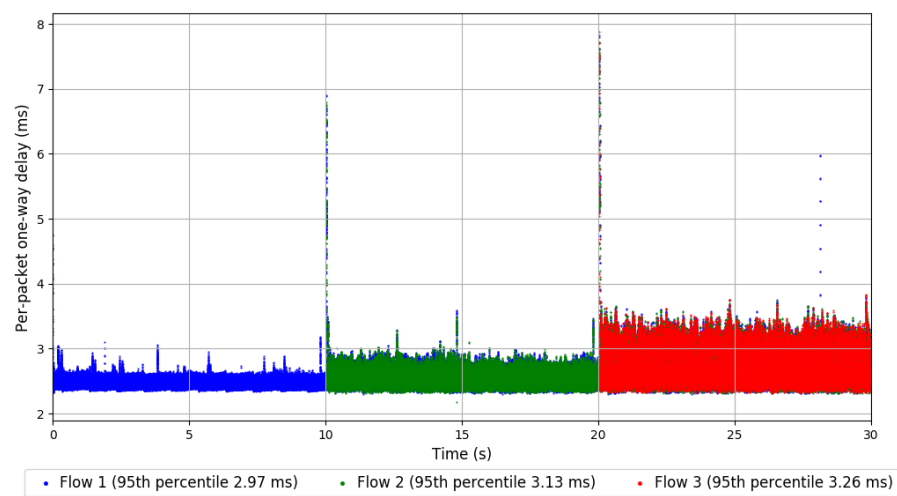
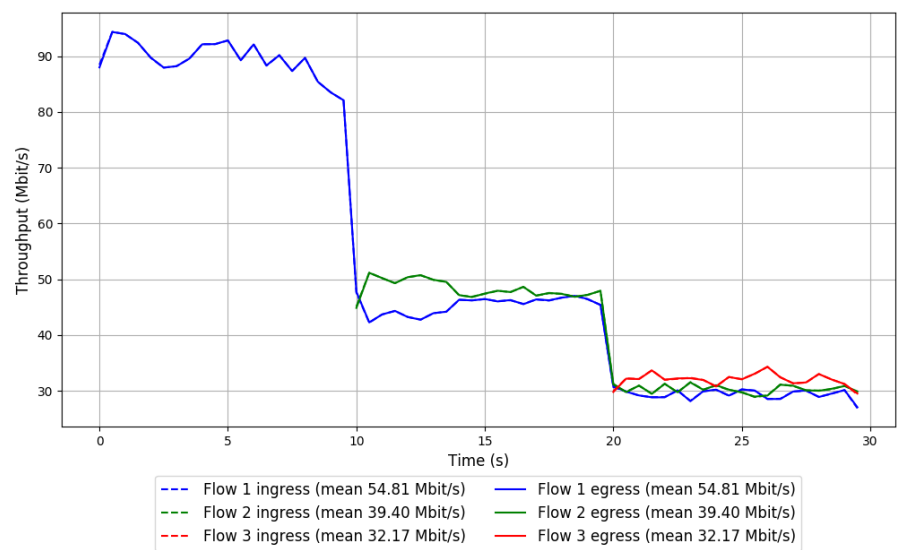
-- Flow 3:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 3.256 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-01 04:20:22

End at: 2018-02-01 04:20:52

Local clock offset: -0.303 ms

Remote clock offset: 1.927 ms

Below is generated by plot.py at 2018-02-01 05:25:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 3.077 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 2.941 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 3.100 ms

Loss rate: 0.00%

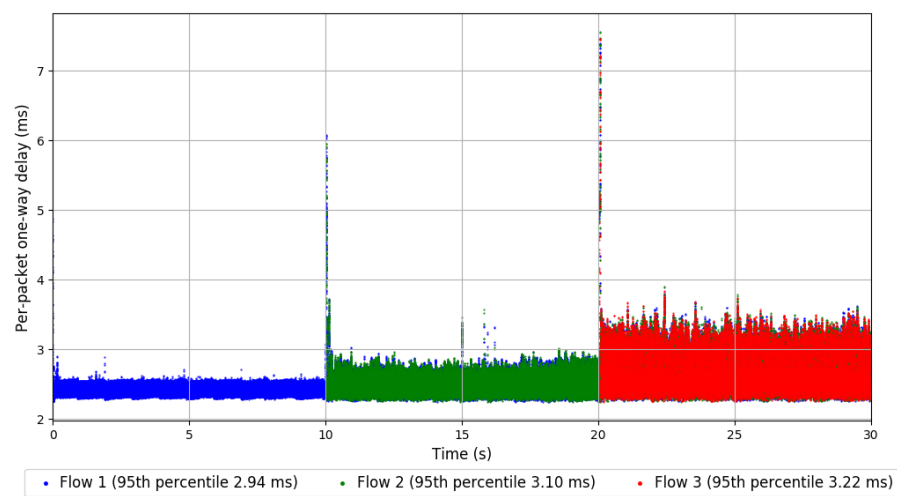
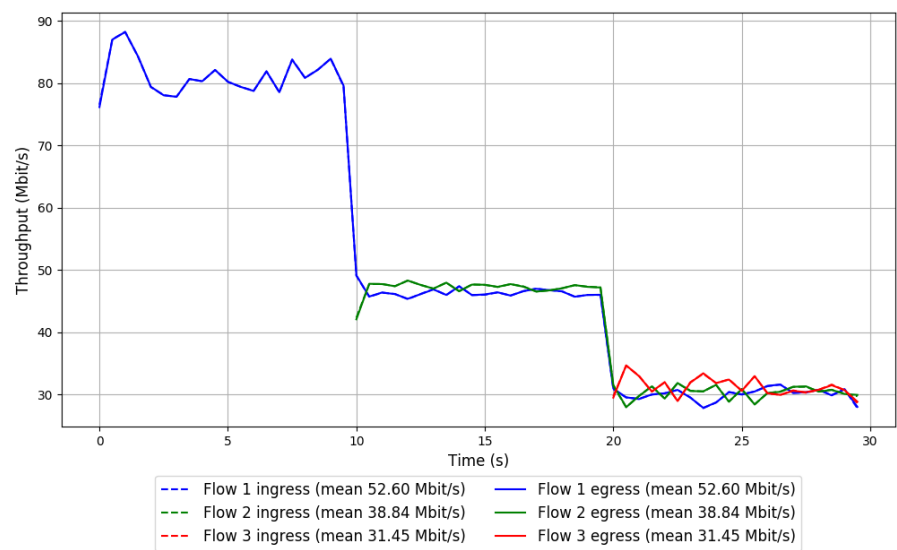
-- Flow 3:

Average throughput: 31.45 Mbit/s

95th percentile per-packet one-way delay: 3.222 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

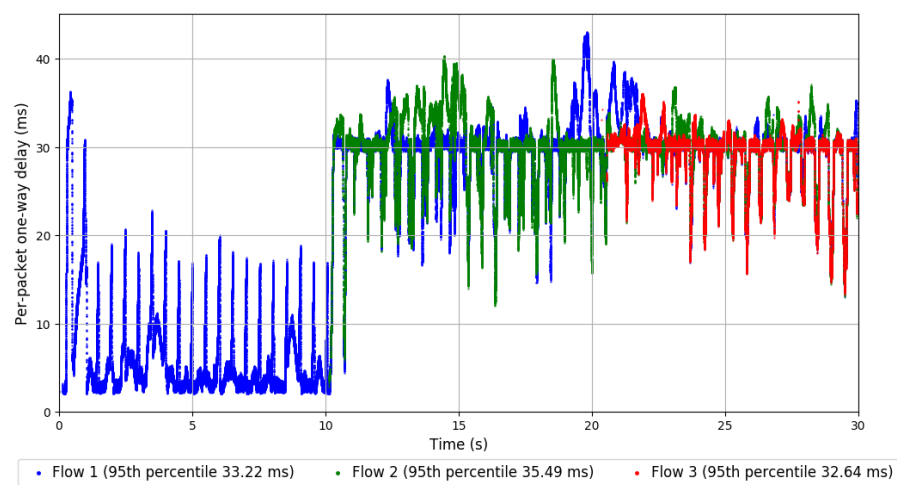
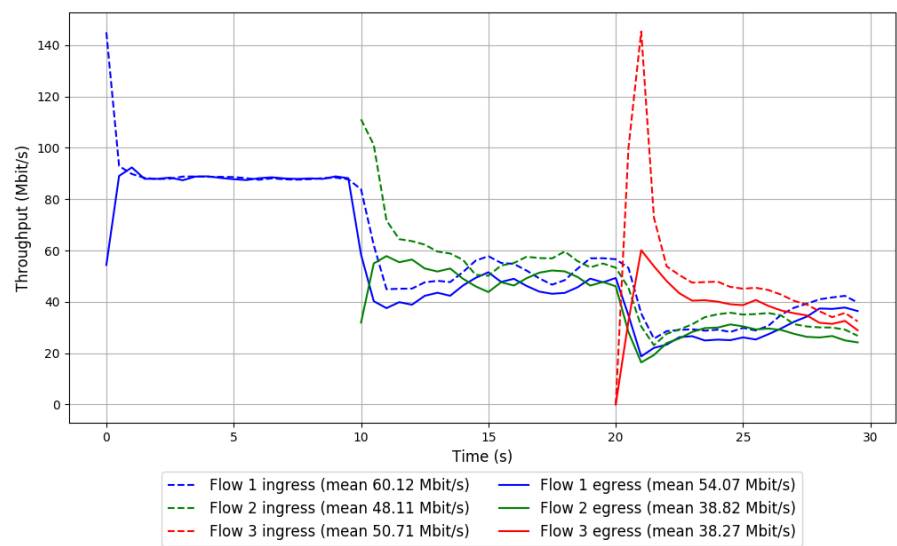


```
Run 1: Statistics of FillP

Start at: 2018-02-01 01:18:30
End at: 2018-02-01 01:19:00
Local clock offset: 0.58 ms
Remote clock offset: 1.739 ms

# Below is generated by plot.py at 2018-02-01 05:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 34.360 ms
Loss rate: 15.14%
-- Flow 1:
Average throughput: 54.07 Mbit/s
95th percentile per-packet one-way delay: 33.222 ms
Loss rate: 9.98%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 35.490 ms
Loss rate: 19.25%
-- Flow 3:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 32.637 ms
Loss rate: 25.74%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-01 01:40:15

End at: 2018-02-01 01:40:45

Local clock offset: 0.593 ms

Remote clock offset: 1.596 ms

Below is generated by plot.py at 2018-02-01 05:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 30.747 ms

Loss rate: 15.66%

-- Flow 1:

Average throughput: 54.24 Mbit/s

95th percentile per-packet one-way delay: 30.652 ms

Loss rate: 10.55%

-- Flow 2:

Average throughput: 39.49 Mbit/s

95th percentile per-packet one-way delay: 30.904 ms

Loss rate: 20.13%

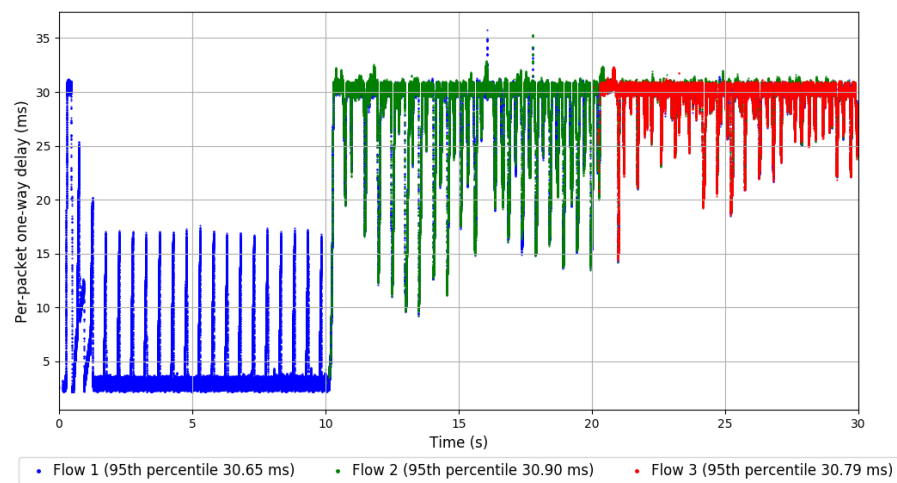
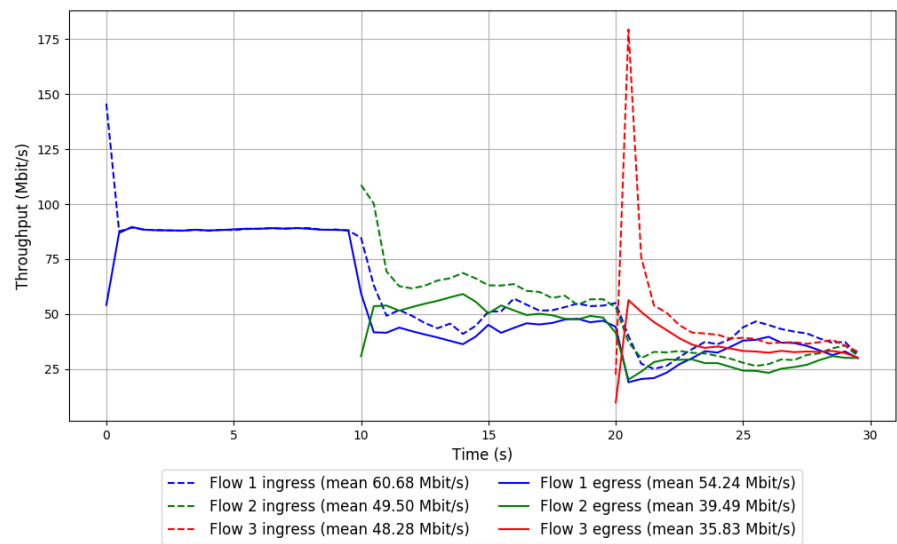
-- Flow 3:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 30.787 ms

Loss rate: 25.79%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

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

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

Local clock offset: 0.508 ms

Remote clock offset: 1.09 ms

Below is generated by plot.py at 2018-02-01 05:27:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.39 Mbit/s

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

Loss rate: 15.85%

-- Flow 1:

Average throughput: 55.30 Mbit/s

95th percentile per-packet one-way delay: 30.615 ms

Loss rate: 11.18%

-- Flow 2:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 30.675 ms

Loss rate: 19.56%

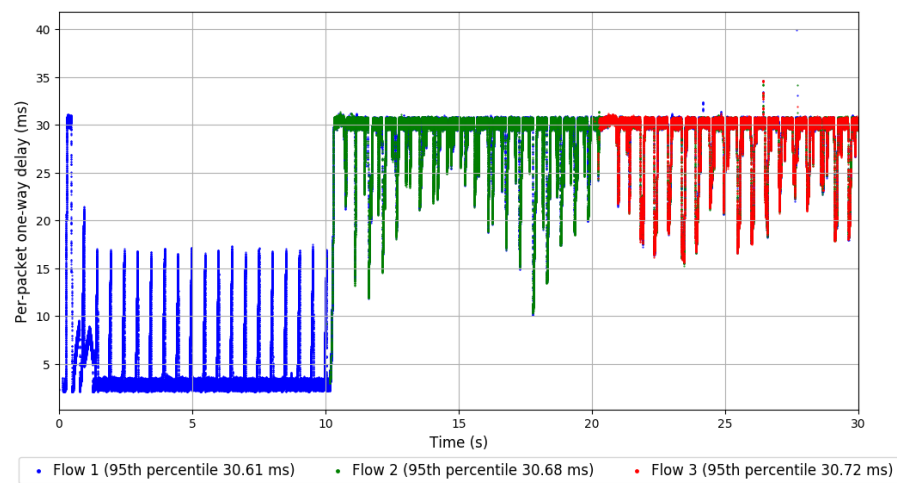
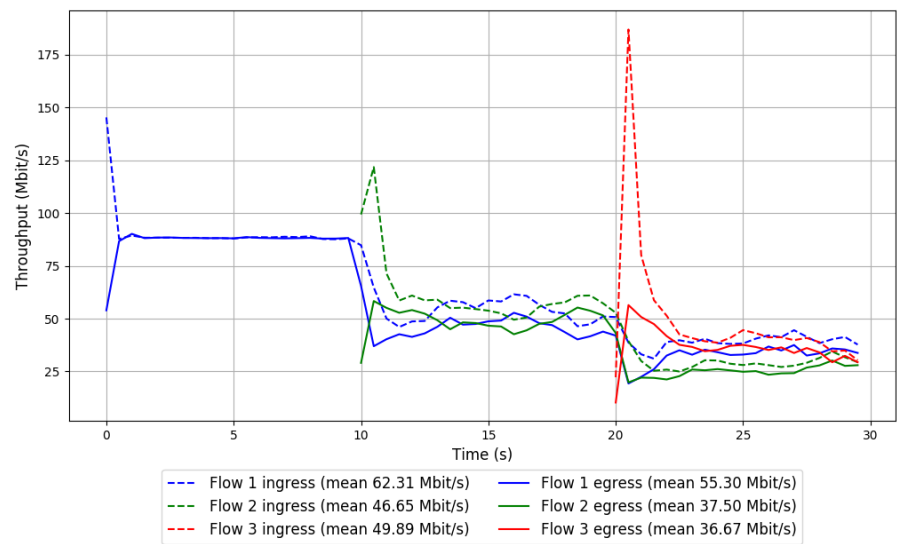
-- Flow 3:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 30.722 ms

Loss rate: 26.49%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-01 02:23:37

End at: 2018-02-01 02:24:07

Local clock offset: 0.429 ms

Remote clock offset: 0.939 ms

Below is generated by plot.py at 2018-02-01 05:27:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 30.753 ms

Loss rate: 16.31%

-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 30.692 ms

Loss rate: 10.62%

-- Flow 2:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 30.782 ms

Loss rate: 20.66%

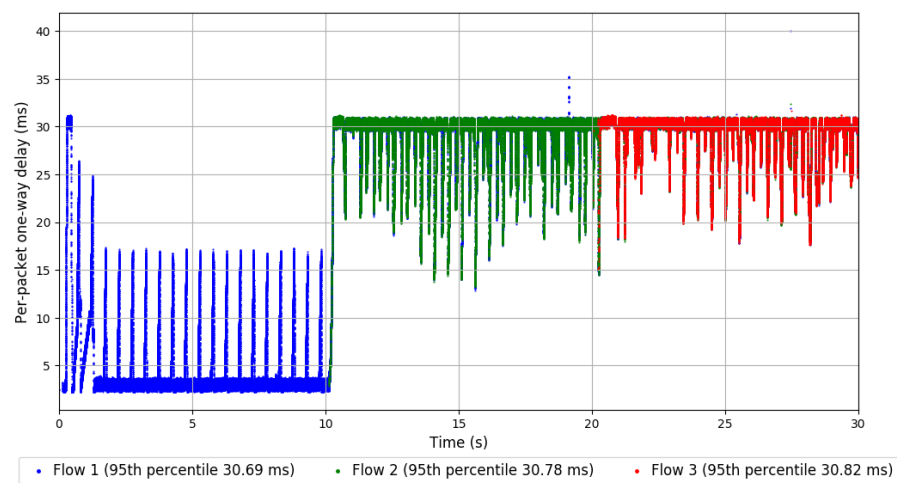
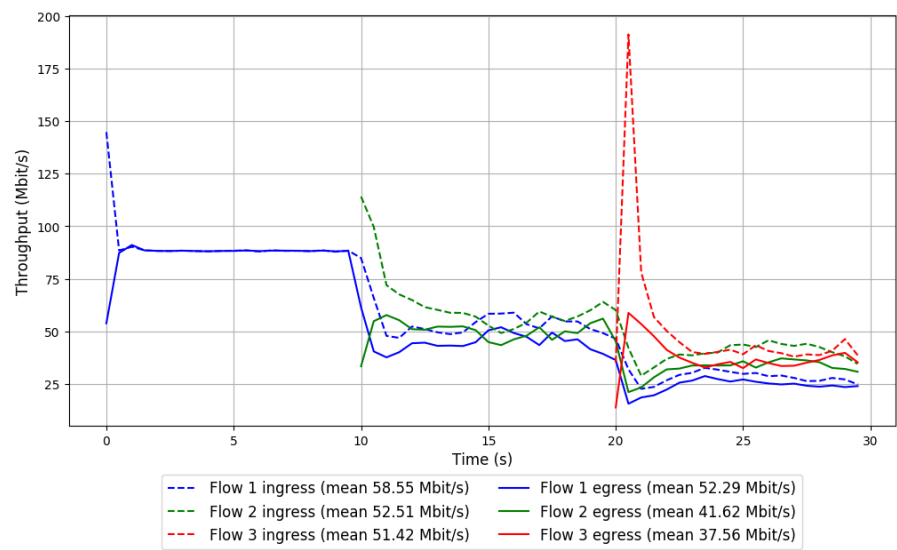
-- Flow 3:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 30.816 ms

Loss rate: 26.94%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-01 02:44:55

End at: 2018-02-01 02:45:25

Local clock offset: 0.265 ms

Remote clock offset: 0.666 ms

Below is generated by plot.py at 2018-02-01 05:27:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 69.495 ms

Loss rate: 18.11%

-- Flow 1:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 30.684 ms

Loss rate: 12.52%

-- Flow 2:

Average throughput: 41.44 Mbit/s

95th percentile per-packet one-way delay: 30.758 ms

Loss rate: 22.72%

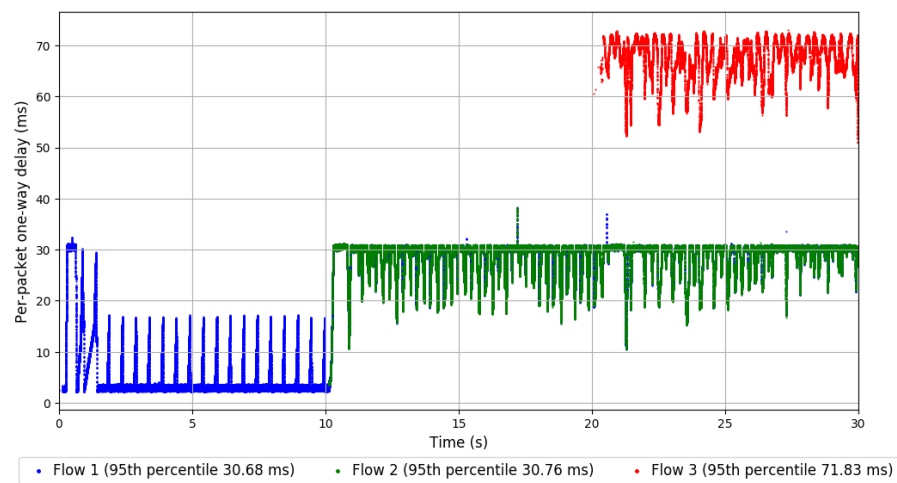
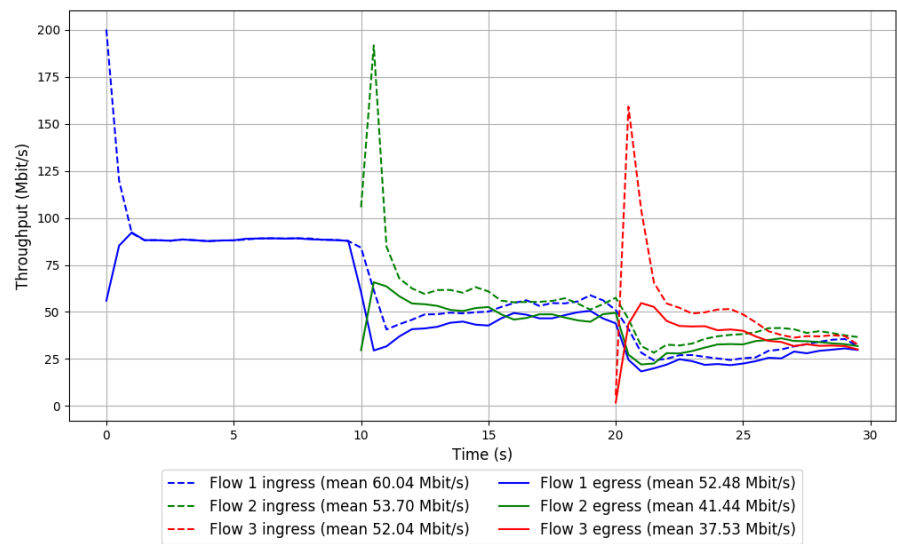
-- Flow 3:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 71.833 ms

Loss rate: 28.01%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-01 03:06:03

End at: 2018-02-01 03:06:33

Local clock offset: 0.164 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2018-02-01 05:27:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 30.632 ms

Loss rate: 17.23%

-- Flow 1:

Average throughput: 53.22 Mbit/s

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

Loss rate: 10.81%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 30.667 ms

Loss rate: 23.16%

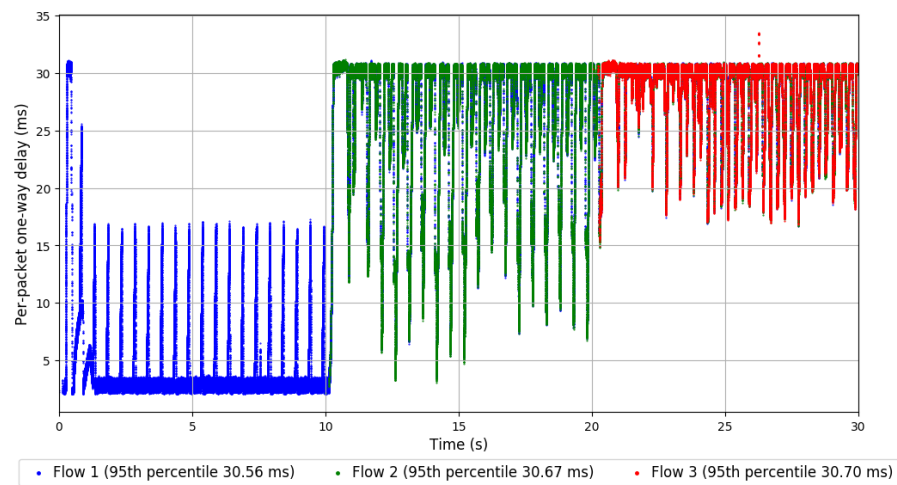
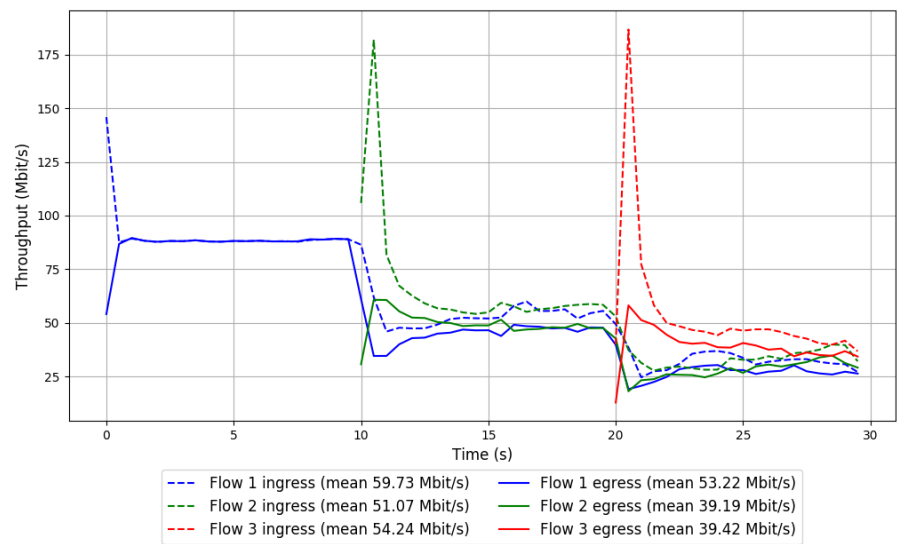
-- Flow 3:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 30.695 ms

Loss rate: 27.32%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-01 03:26:38

End at: 2018-02-01 03:27:08

Local clock offset: -0.034 ms

Remote clock offset: 0.831 ms

Below is generated by plot.py at 2018-02-01 05:28:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 30.664 ms

Loss rate: 15.29%

-- Flow 1:

Average throughput: 52.38 Mbit/s

95th percentile per-packet one-way delay: 30.642 ms

Loss rate: 10.89%

-- Flow 2:

Average throughput: 42.38 Mbit/s

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

Loss rate: 19.35%

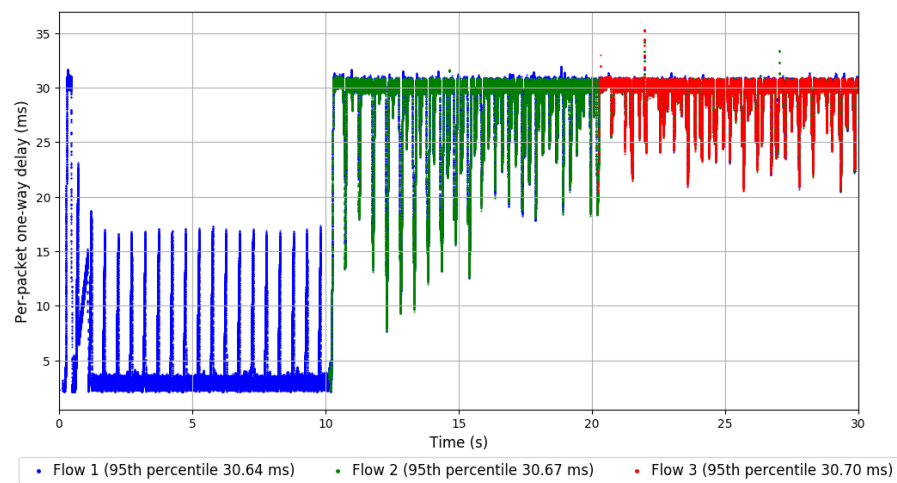
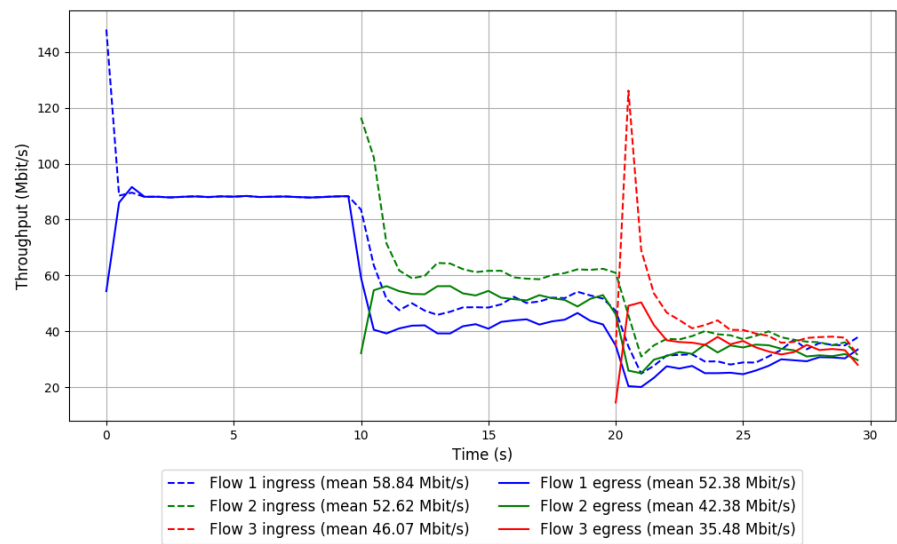
-- Flow 3:

Average throughput: 35.48 Mbit/s

95th percentile per-packet one-way delay: 30.698 ms

Loss rate: 22.97%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-01 03:47:12

End at: 2018-02-01 03:47:42

Local clock offset: -0.171 ms

Remote clock offset: 1.255 ms

Below is generated by plot.py at 2018-02-01 05:28:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 30.601 ms

Loss rate: 15.99%

-- Flow 1:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 30.539 ms

Loss rate: 10.50%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 30.629 ms

Loss rate: 19.98%

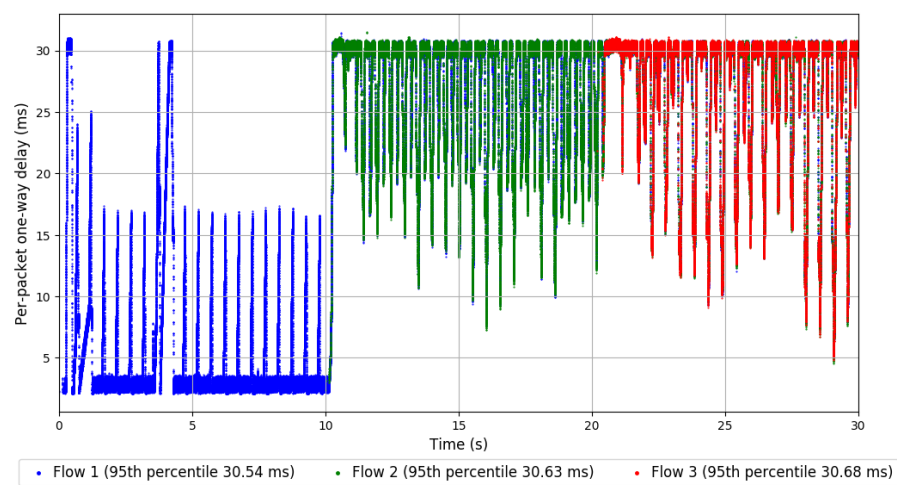
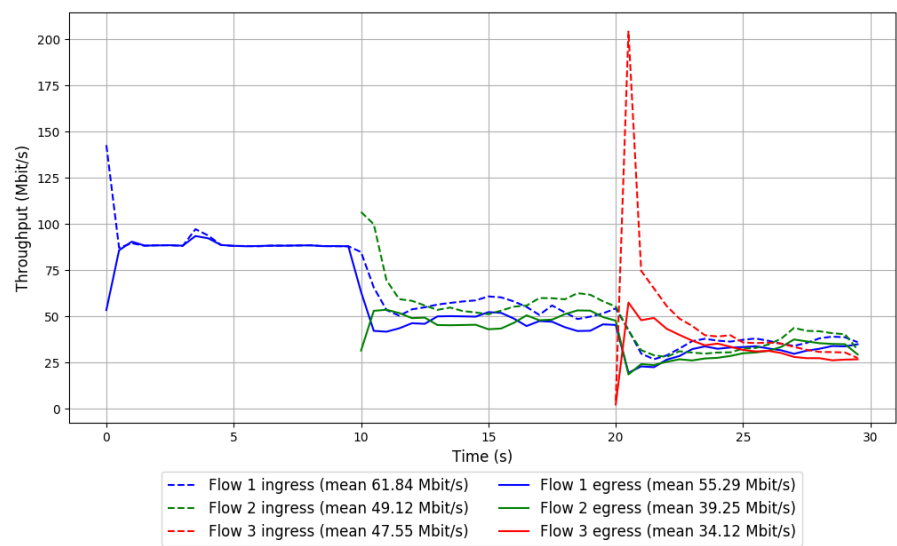
-- Flow 3:

Average throughput: 34.12 Mbit/s

95th percentile per-packet one-way delay: 30.678 ms

Loss rate: 29.29%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-01 04:07:46

End at: 2018-02-01 04:08:16

Local clock offset: -0.277 ms

Remote clock offset: 1.736 ms

Below is generated by plot.py at 2018-02-01 05:29:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 30.626 ms

Loss rate: 15.90%

-- Flow 1:

Average throughput: 55.46 Mbit/s

95th percentile per-packet one-way delay: 30.574 ms

Loss rate: 10.54%

-- Flow 2:

Average throughput: 38.90 Mbit/s

95th percentile per-packet one-way delay: 30.653 ms

Loss rate: 20.36%

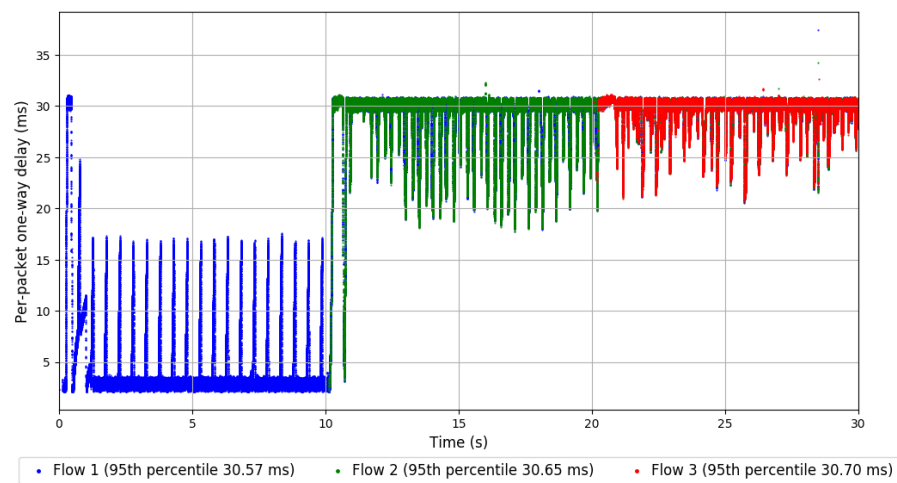
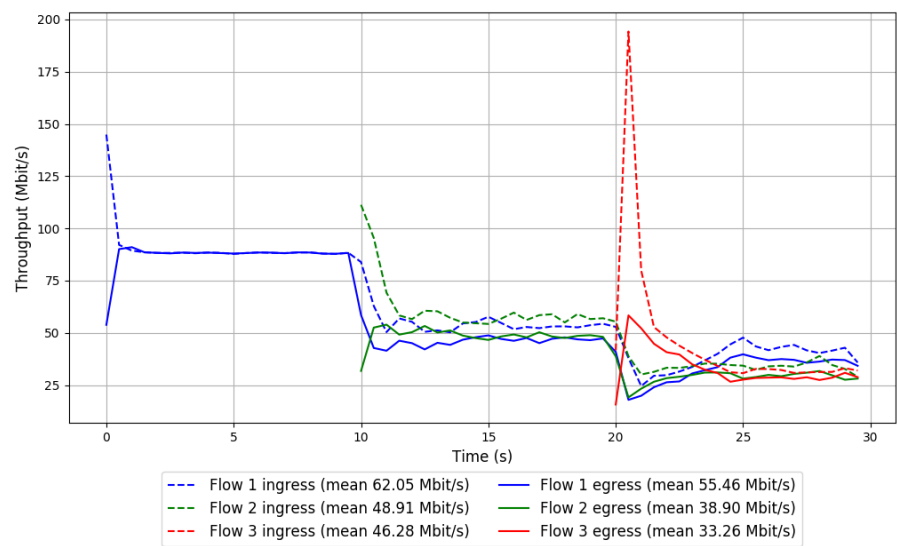
-- Flow 3:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 30.701 ms

Loss rate: 28.14%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-01 04:28:20

End at: 2018-02-01 04:28:50

Local clock offset: -0.349 ms

Remote clock offset: 2.061 ms

Below is generated by plot.py at 2018-02-01 05:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 30.692 ms

Loss rate: 16.33%

-- Flow 1:

Average throughput: 55.18 Mbit/s

95th percentile per-packet one-way delay: 30.602 ms

Loss rate: 9.92%

-- Flow 2:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 30.745 ms

Loss rate: 23.13%

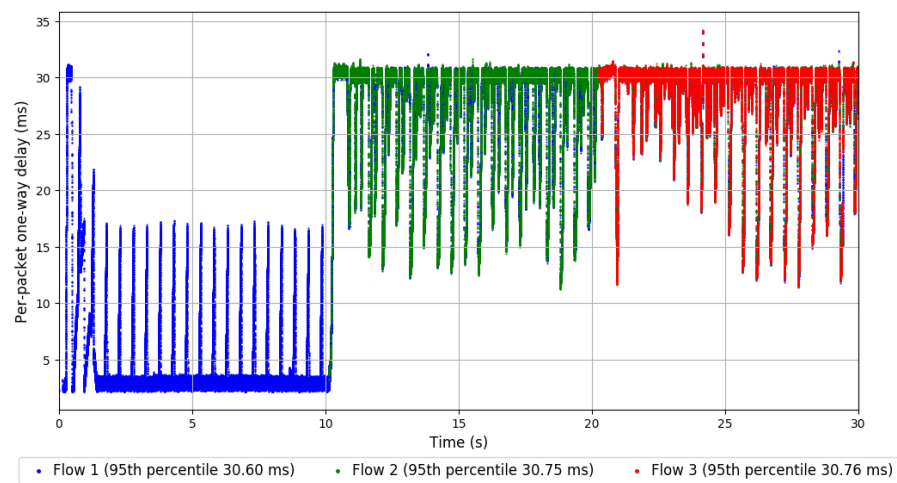
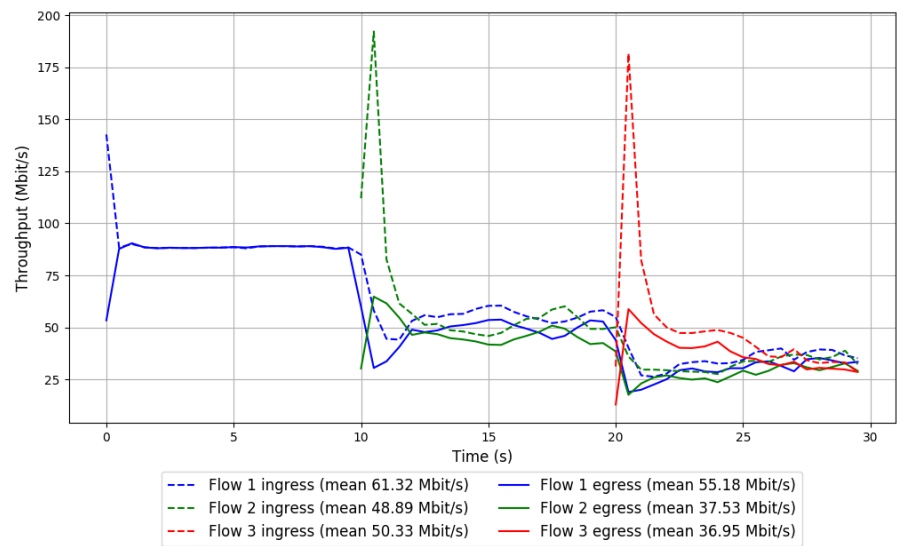
-- Flow 3:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 30.764 ms

Loss rate: 26.59%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-02-01 01:20:59

End at: 2018-02-01 01:21:29

Local clock offset: 0.651 ms

Remote clock offset: 2.026 ms

Below is generated by plot.py at 2018-02-01 05:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.677 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.39 Mbit/s

95th percentile per-packet one-way delay: 11.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 13.127 ms

Loss rate: 0.00%

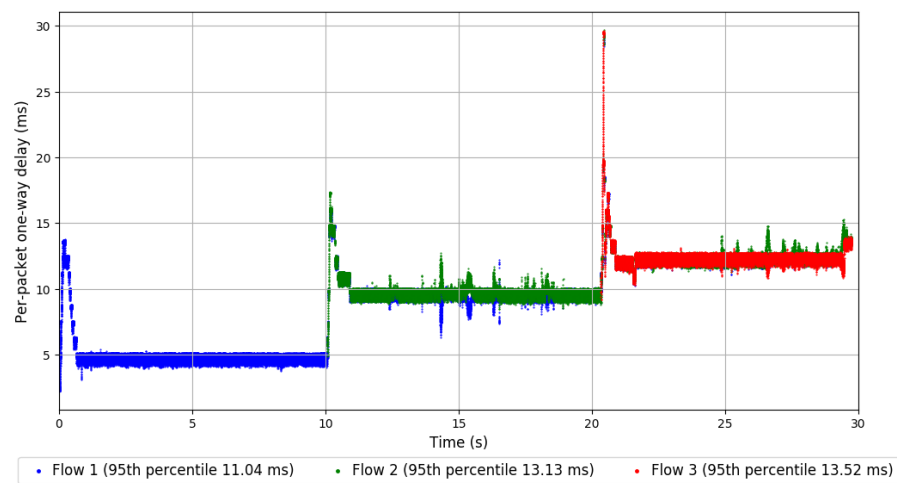
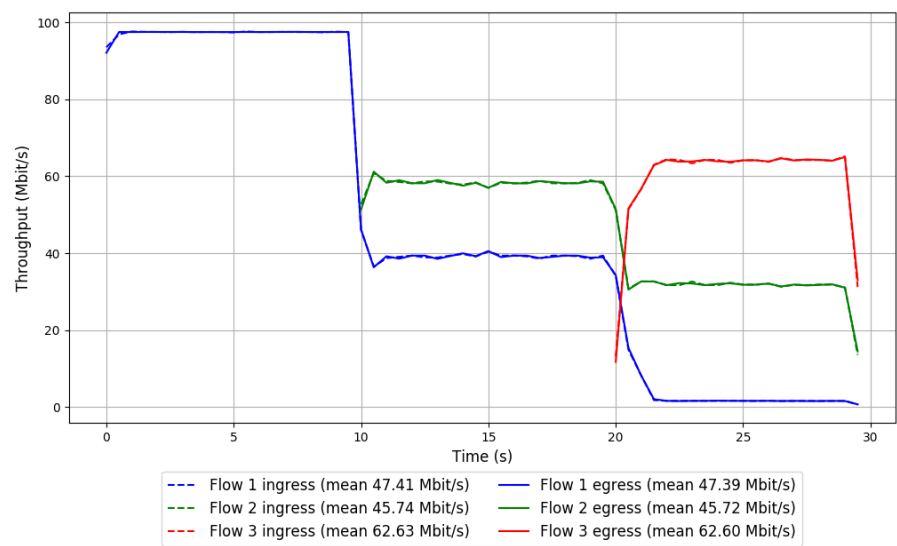
-- Flow 3:

Average throughput: 62.60 Mbit/s

95th percentile per-packet one-way delay: 13.524 ms

Loss rate: 0.00%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-01 01:42:44

End at: 2018-02-01 01:43:14

Local clock offset: 0.59 ms

Remote clock offset: 1.486 ms

Below is generated by plot.py at 2018-02-01 05:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 11.152 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.83 Mbit/s

95th percentile per-packet one-way delay: 10.097 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 12.360 ms

Loss rate: 0.00%

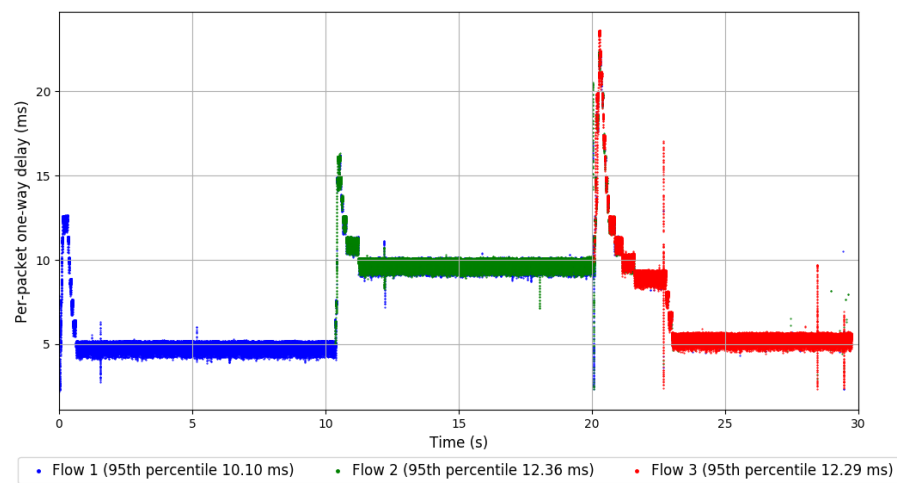
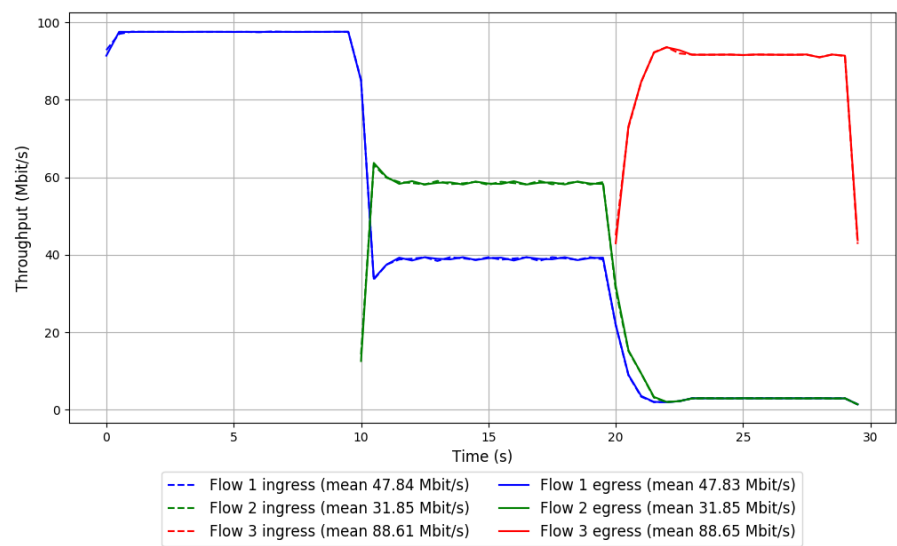
-- Flow 3:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 12.287 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-01 02:04:26

End at: 2018-02-01 02:04:56

Local clock offset: 0.478 ms

Remote clock offset: 1.111 ms

Below is generated by plot.py at 2018-02-01 05:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 49.039 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 9.460 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.25 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 2.80%

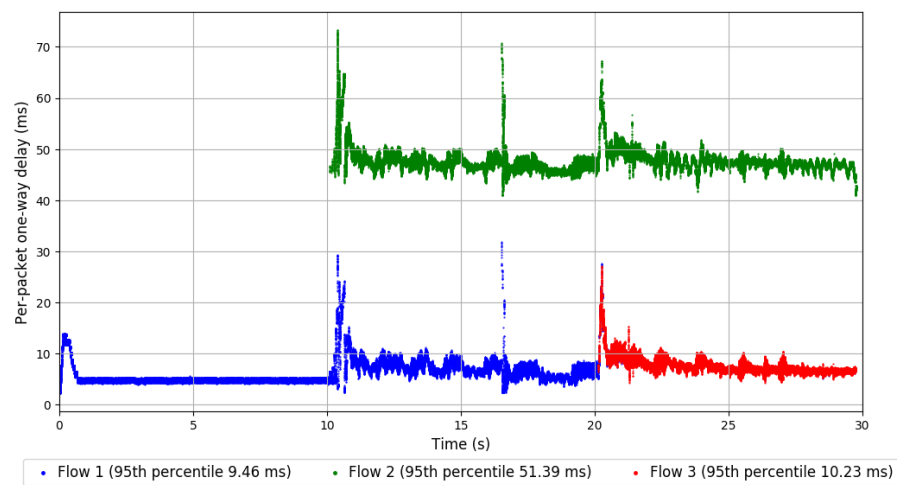
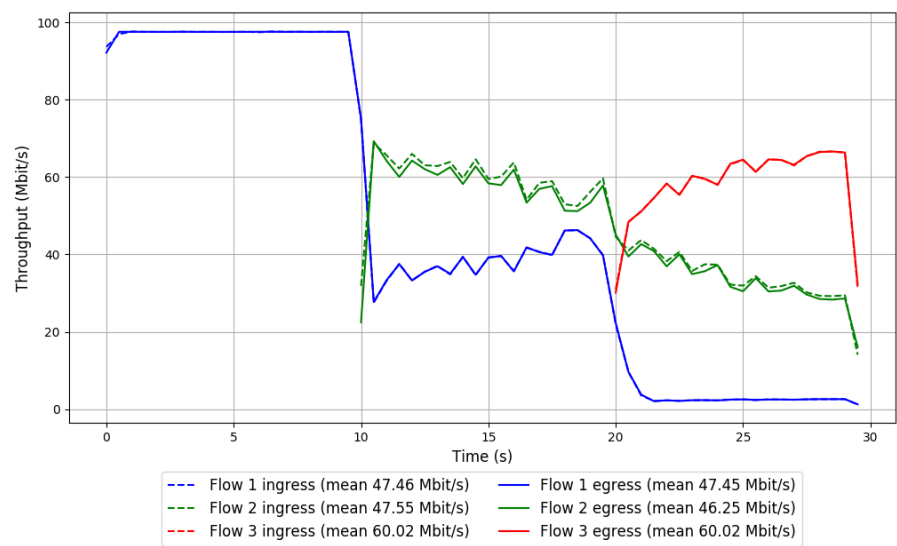
-- Flow 3:

Average throughput: 60.02 Mbit/s

95th percentile per-packet one-way delay: 10.234 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-01 02:26:04

End at: 2018-02-01 02:26:34

Local clock offset: 0.506 ms

Remote clock offset: 0.913 ms

Below is generated by plot.py at 2018-02-01 05:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 47.293 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 10.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 11.119 ms

Loss rate: 0.00%

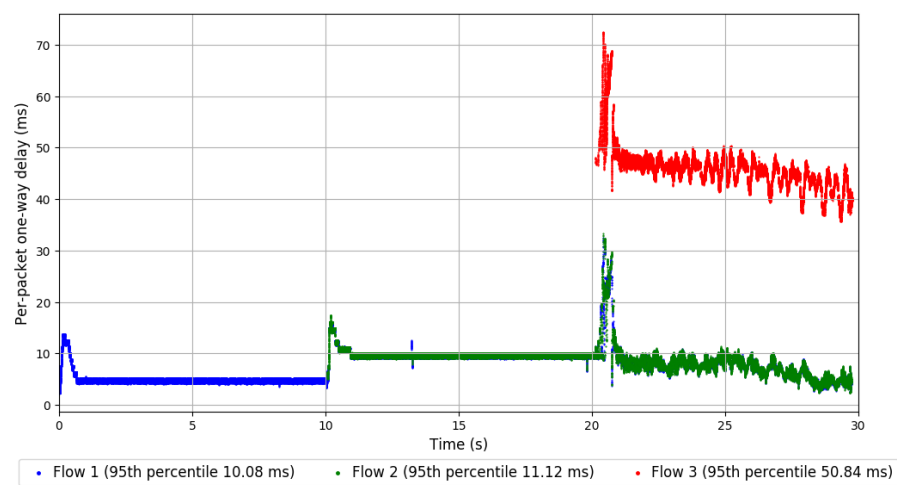
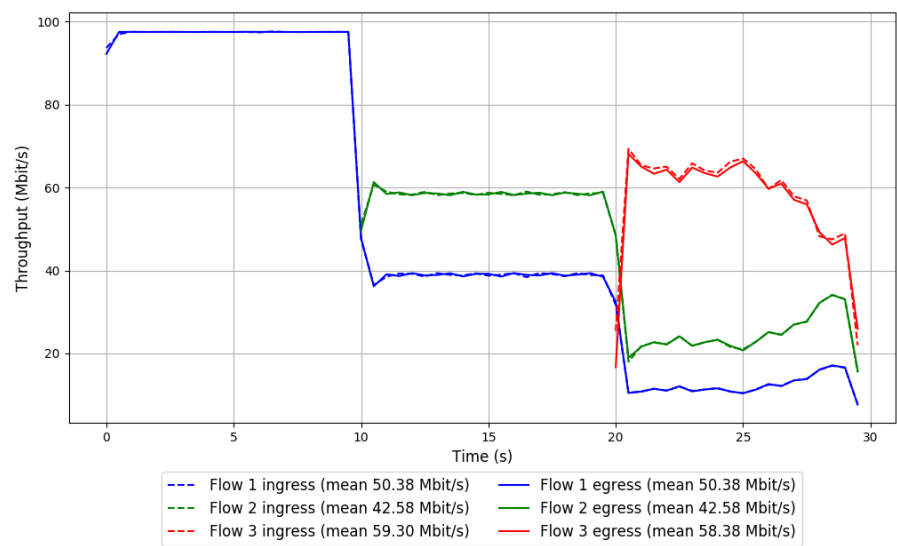
-- Flow 3:

Average throughput: 58.38 Mbit/s

95th percentile per-packet one-way delay: 50.838 ms

Loss rate: 1.63%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-01 02:47:21

End at: 2018-02-01 02:47:51

Local clock offset: 0.337 ms

Remote clock offset: 0.655 ms

Below is generated by plot.py at 2018-02-01 05:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 43.437 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 49.137 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 65.05 Mbit/s

95th percentile per-packet one-way delay: 10.843 ms

Loss rate: 0.00%

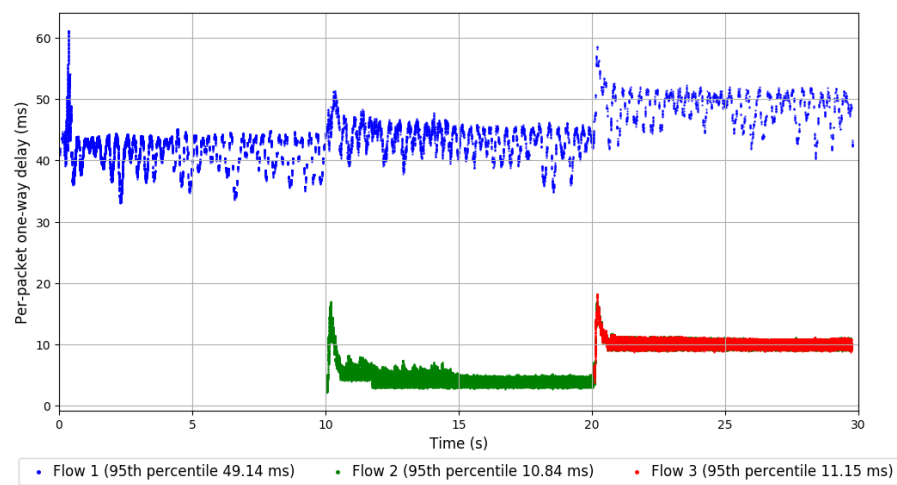
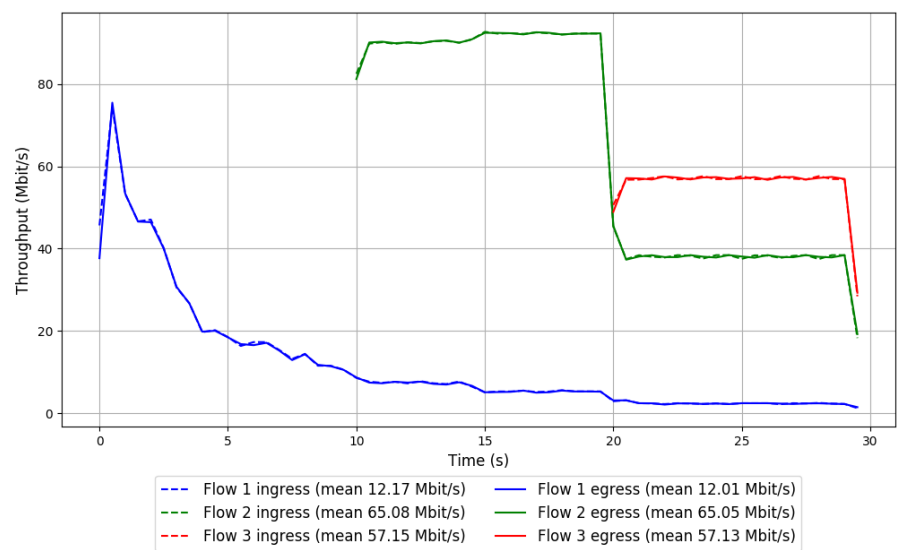
-- Flow 3:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 11.146 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-01 03:08:25

End at: 2018-02-01 03:08:55

Local clock offset: 0.102 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-02-01 05:29:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.993 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 11.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 13.477 ms

Loss rate: 0.00%

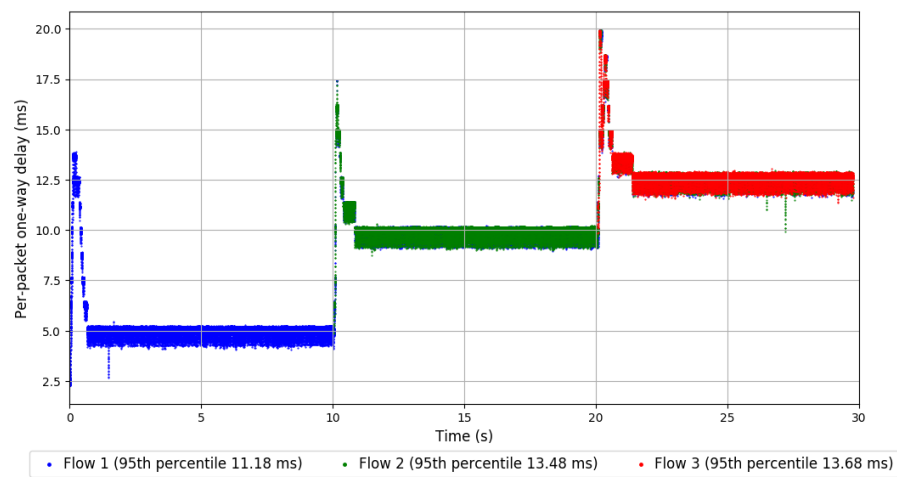
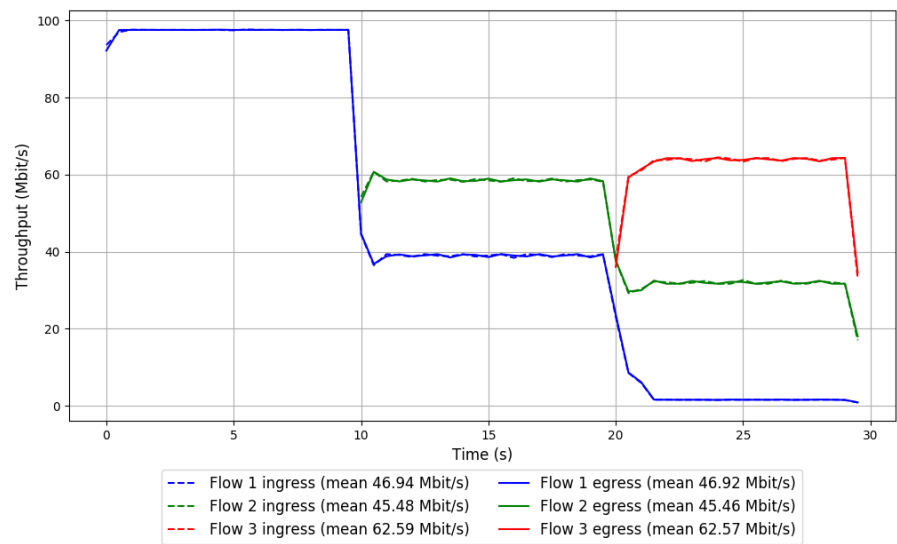
-- Flow 3:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 13.680 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-01 03:28:59

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

Local clock offset: -0.036 ms

Remote clock offset: 0.823 ms

Below is generated by plot.py at 2018-02-01 05:29:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.300 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 11.082 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 12.314 ms

Loss rate: 0.00%

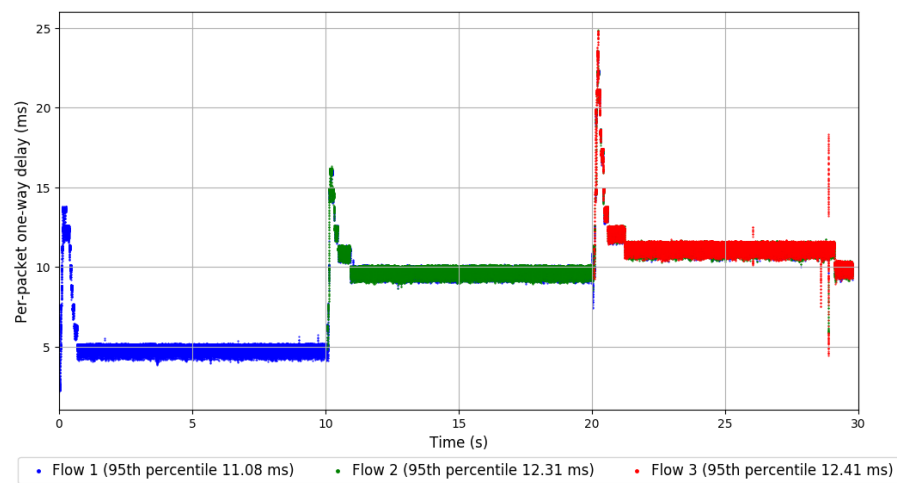
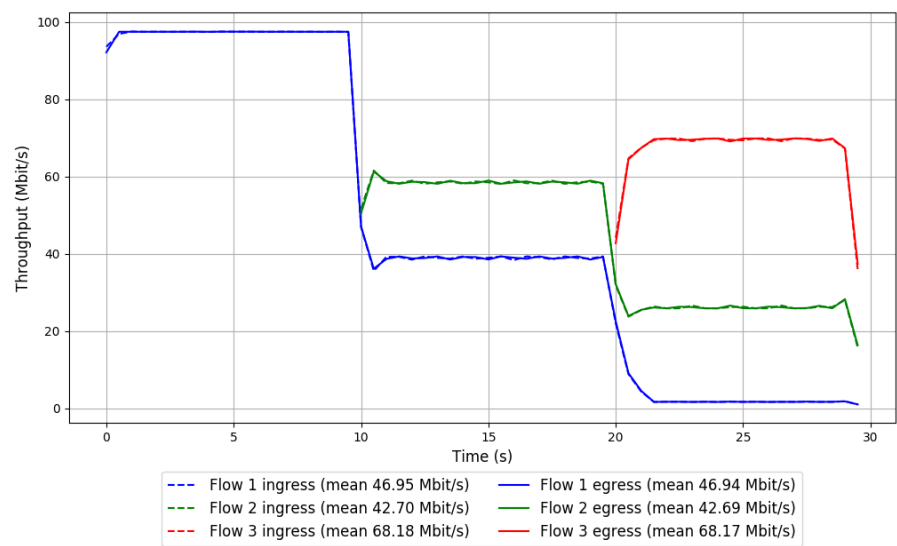
-- Flow 3:

Average throughput: 68.17 Mbit/s

95th percentile per-packet one-way delay: 12.415 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-01 03:49:32

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

Local clock offset: -0.223 ms

Remote clock offset: 1.309 ms

Below is generated by plot.py at 2018-02-01 05:30:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.810 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 11.067 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 13.237 ms

Loss rate: 0.00%

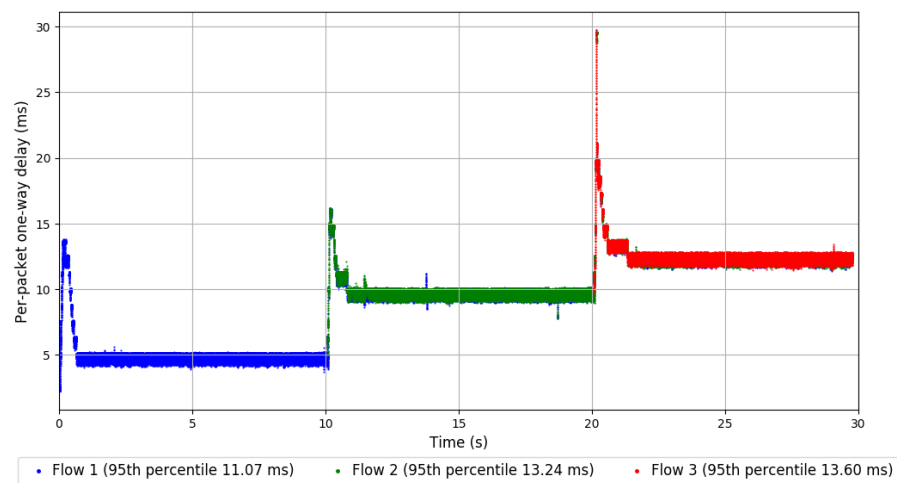
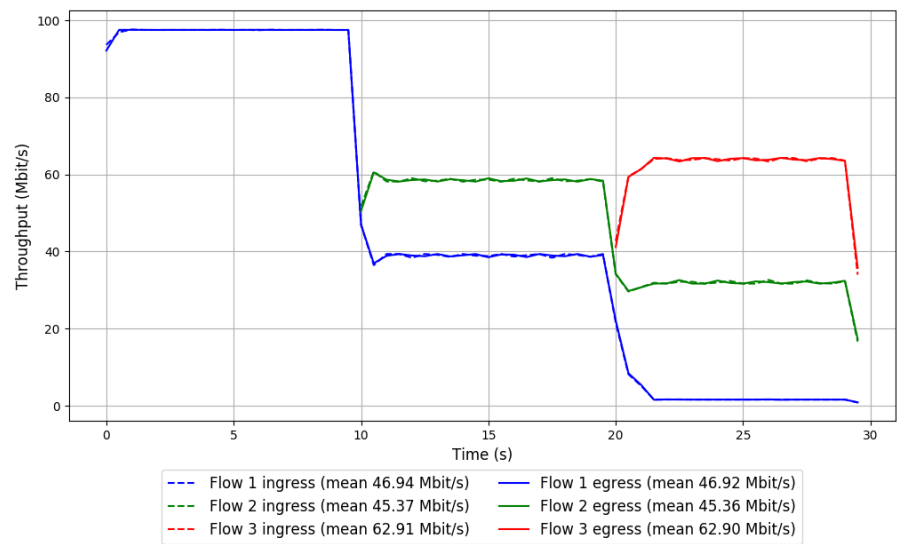
-- Flow 3:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 13.600 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-01 04:10:07

End at: 2018-02-01 04:10:37

Local clock offset: -0.27 ms

Remote clock offset: 1.722 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 12.800 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 11.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.38 Mbit/s

95th percentile per-packet one-way delay: 13.166 ms

Loss rate: 0.00%

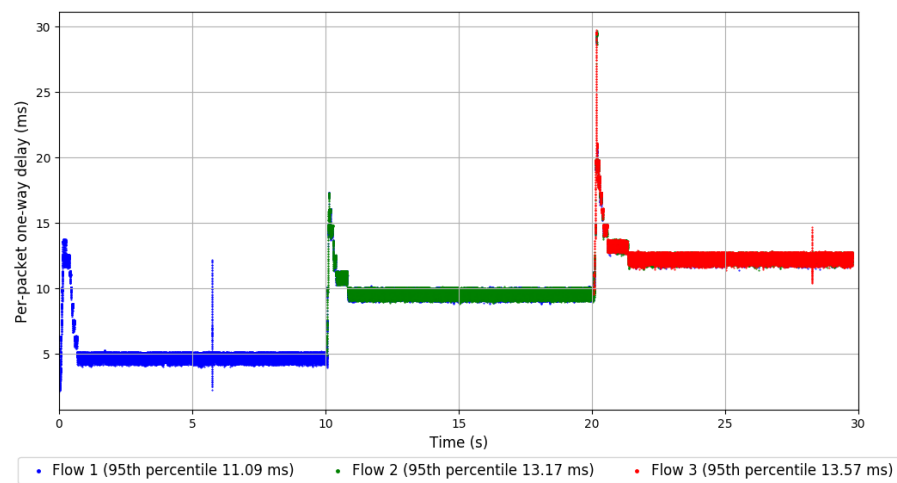
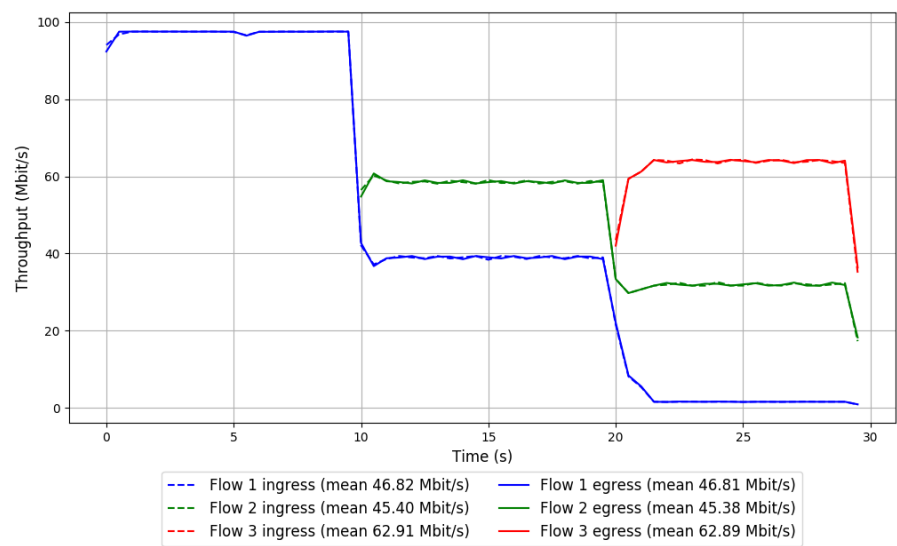
-- Flow 3:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 13.573 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-01 04:30:41

End at: 2018-02-01 04:31:11

Local clock offset: -0.313 ms

Remote clock offset: 2.038 ms

Below is generated by plot.py at 2018-02-01 05:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 11.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 13.383 ms

Loss rate: 0.00%

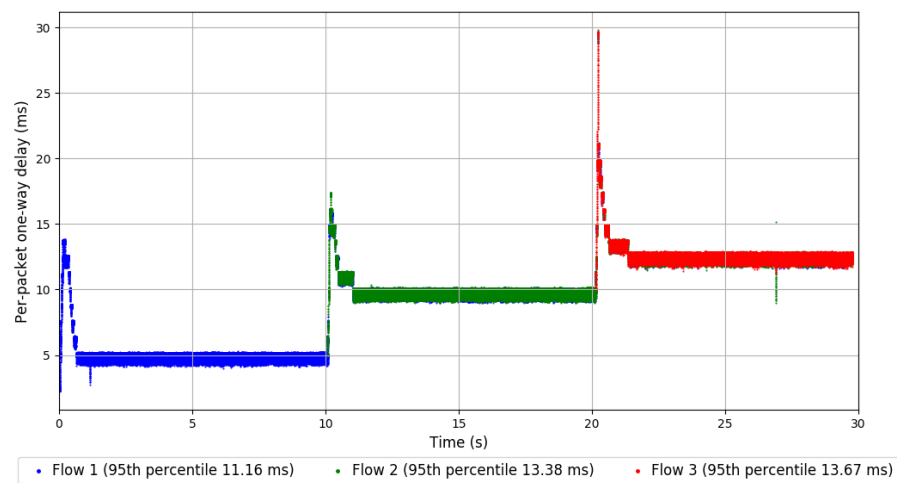
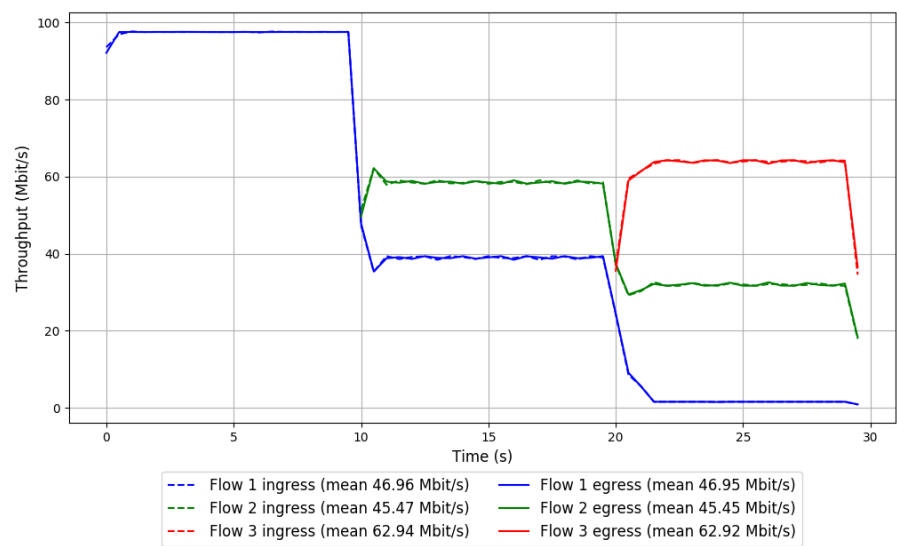
-- Flow 3:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 13.667 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-01 01:11:14

End at: 2018-02-01 01:11:44

Local clock offset: 0.548 ms

Remote clock offset: 1.371 ms

Below is generated by plot.py at 2018-02-01 05:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.82 Mbit/s

95th percentile per-packet one-way delay: 6.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.63 Mbit/s

95th percentile per-packet one-way delay: 2.963 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.89 Mbit/s

95th percentile per-packet one-way delay: 6.998 ms

Loss rate: 0.00%

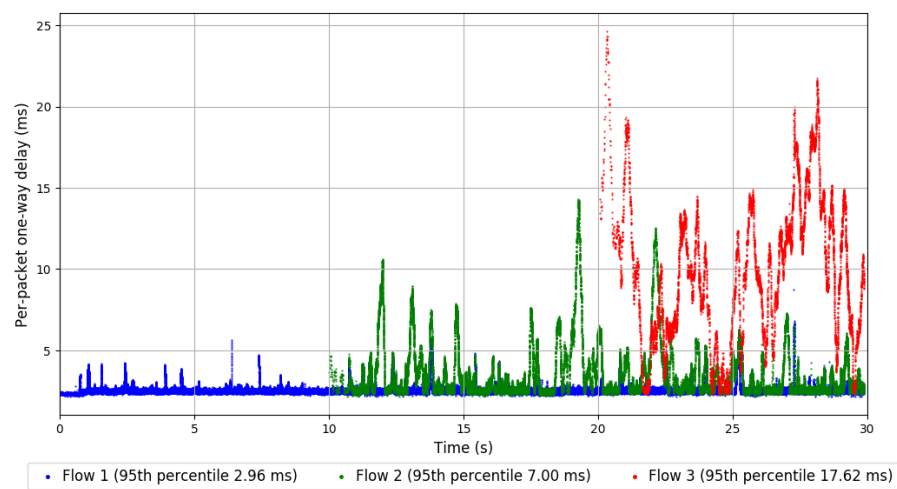
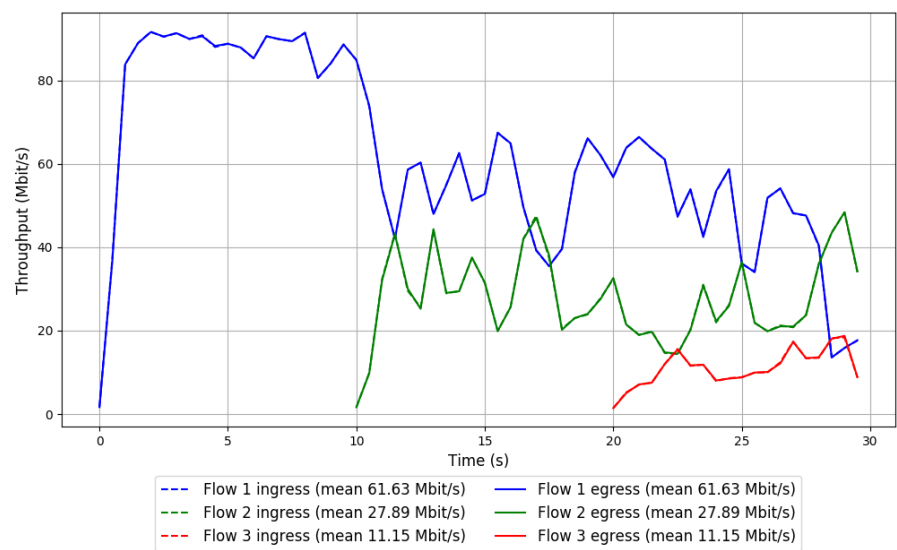
-- Flow 3:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 17.625 ms

Loss rate: 0.01%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-01 01:33:03

End at: 2018-02-01 01:33:33

Local clock offset: 0.548 ms

Remote clock offset: 1.778 ms

Below is generated by plot.py at 2018-02-01 05:31:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 4.092 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 3.808 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.34 Mbit/s

95th percentile per-packet one-way delay: 4.616 ms

Loss rate: 0.00%

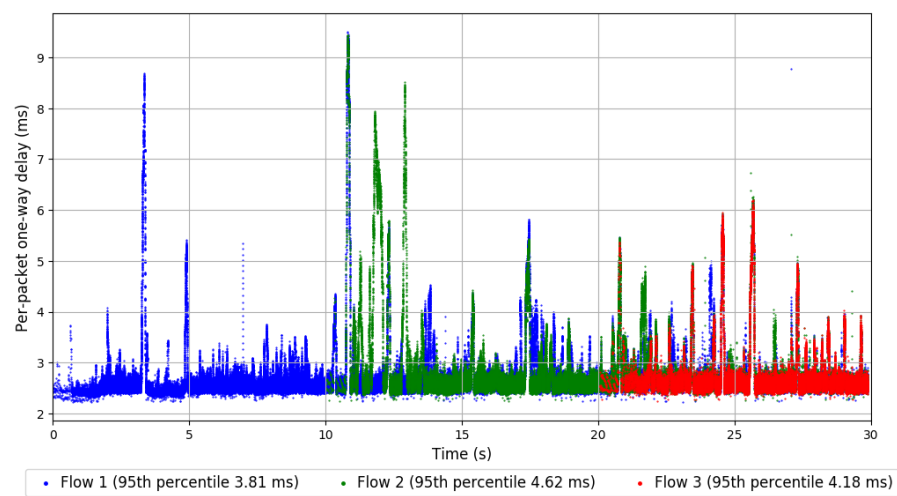
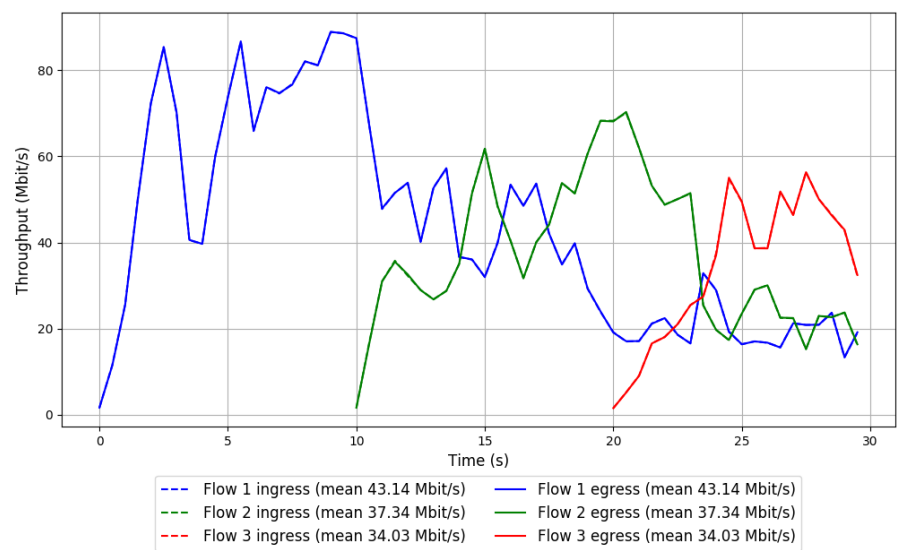
-- Flow 3:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 4.182 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

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

End at: 2018-02-01 01:55:24

Local clock offset: 0.576 ms

Remote clock offset: 1.191 ms

Below is generated by plot.py at 2018-02-01 05:31:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.38 Mbit/s

95th percentile per-packet one-way delay: 8.444 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 2.661 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 44.478 ms

Loss rate: 3.32%

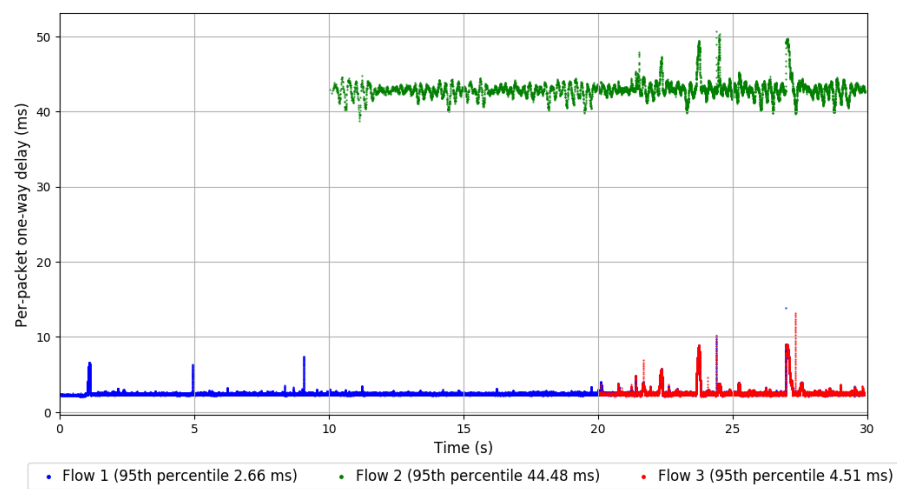
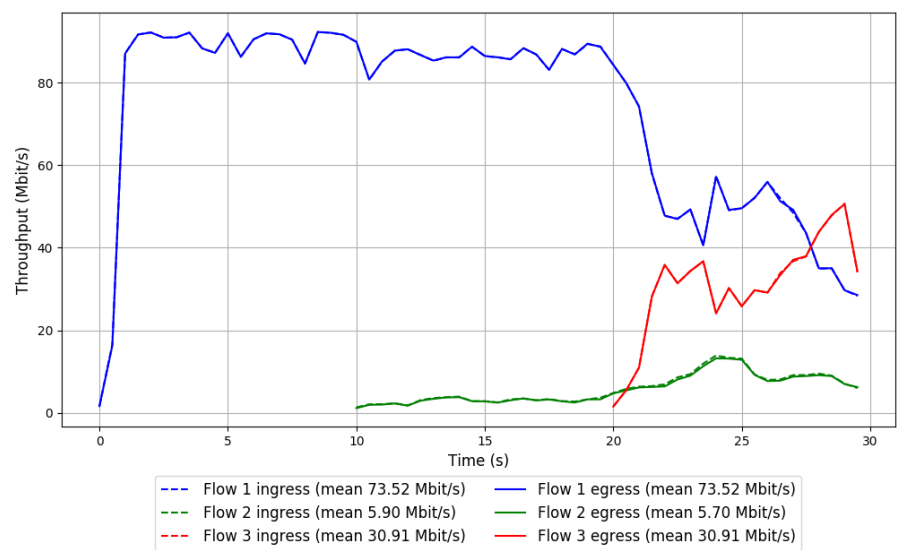
-- Flow 3:

Average throughput: 30.91 Mbit/s

95th percentile per-packet one-way delay: 4.514 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-01 02:16:32

End at: 2018-02-01 02:17:02

Local clock offset: 0.559 ms

Remote clock offset: 0.994 ms

Below is generated by plot.py at 2018-02-01 05:31:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 3.244 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.26 Mbit/s

95th percentile per-packet one-way delay: 2.962 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 3.427 ms

Loss rate: 0.00%

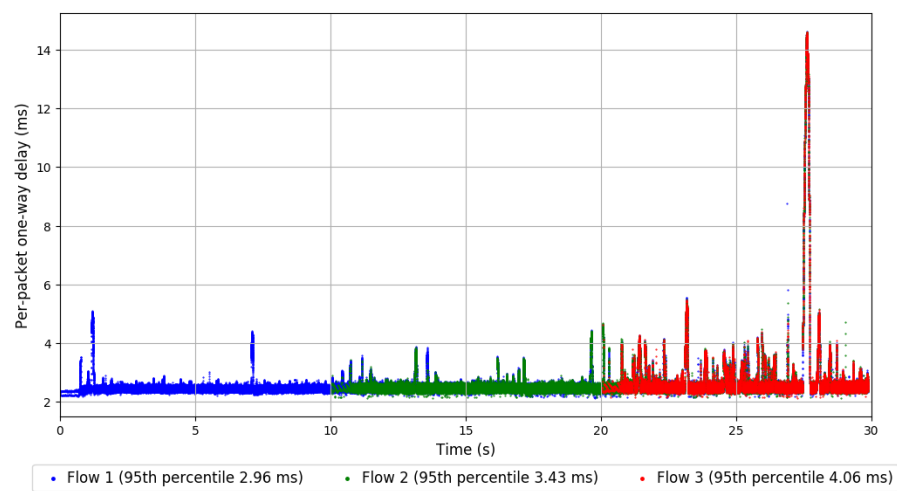
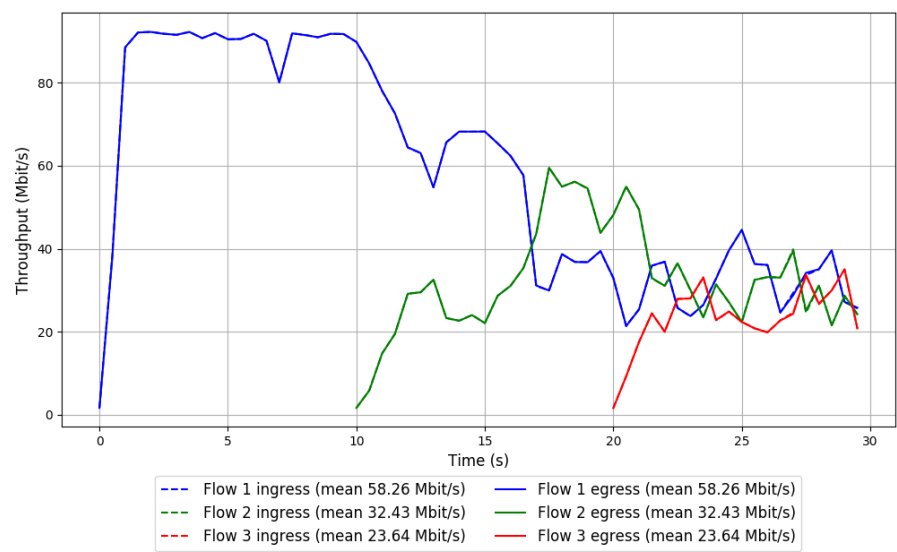
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 4.057 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-01 02:37:54

End at: 2018-02-01 02:38:24

Local clock offset: 0.387 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2018-02-01 05:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 3.524 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 3.038 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: 3.856 ms

Loss rate: 0.00%

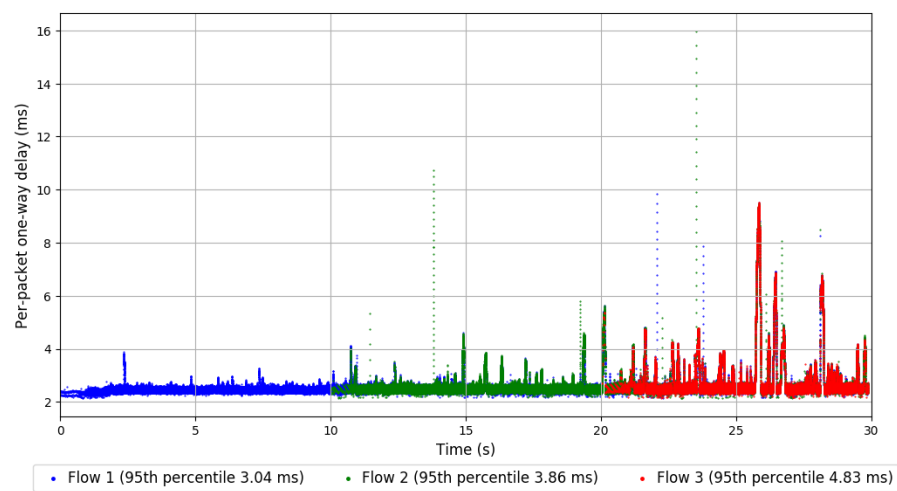
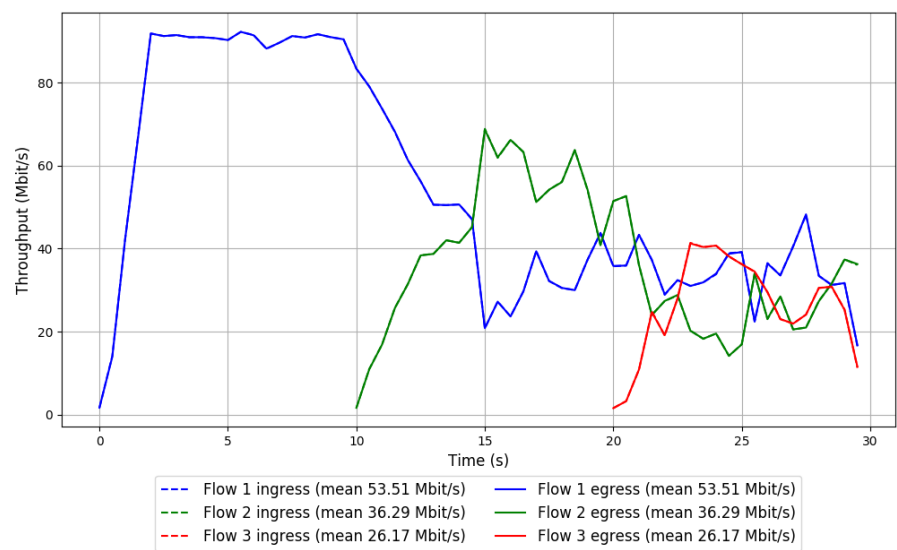
-- Flow 3:

Average throughput: 26.17 Mbit/s

95th percentile per-packet one-way delay: 4.829 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-01 02:59:07

End at: 2018-02-01 02:59:37

Local clock offset: 0.212 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2018-02-01 05:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 8.041 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 3.233 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 31.789 ms

Loss rate: 0.45%

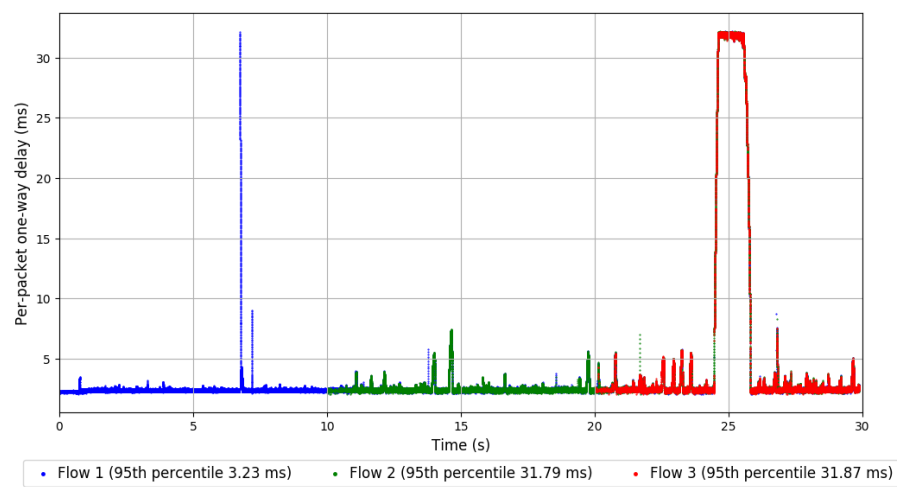
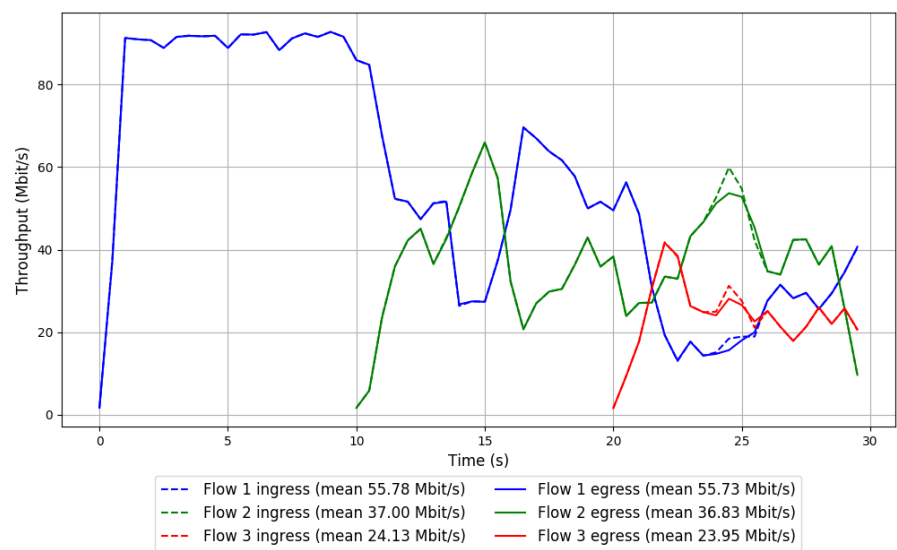
-- Flow 3:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 31.868 ms

Loss rate: 0.75%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-01 03:19:52

End at: 2018-02-01 03:20:22

Local clock offset: -0.041 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-02-01 05:31:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 3.469 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.37 Mbit/s

95th percentile per-packet one-way delay: 3.137 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 3.631 ms

Loss rate: 0.00%

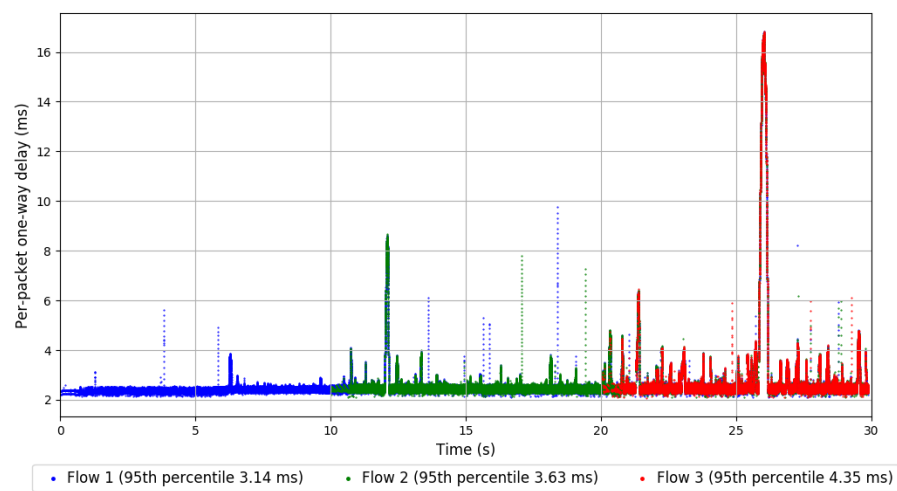
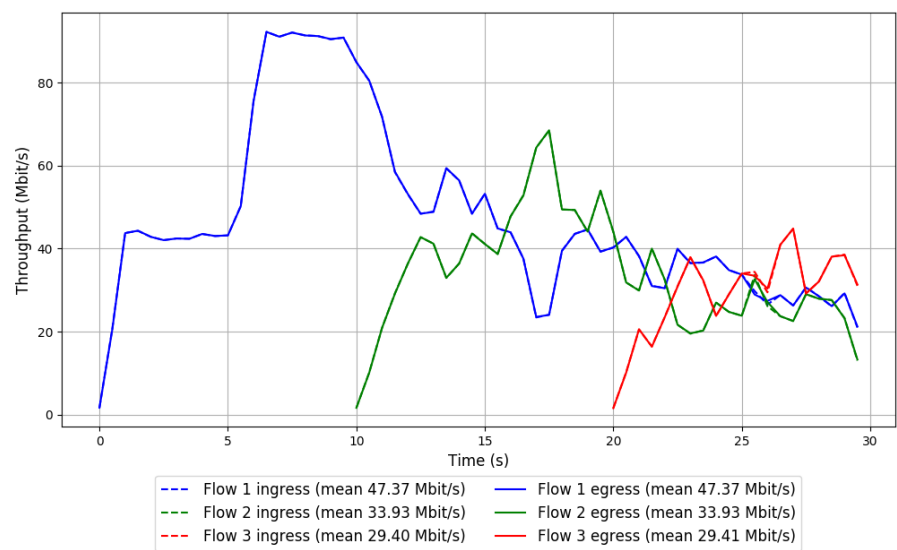
-- Flow 3:

Average throughput: 29.41 Mbit/s

95th percentile per-packet one-way delay: 4.350 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-01 03:40:25

End at: 2018-02-01 03:40:55

Local clock offset: -0.154 ms

Remote clock offset: 0.916 ms

Below is generated by plot.py at 2018-02-01 05:31:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 2.965 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.37 Mbit/s

95th percentile per-packet one-way delay: 2.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 3.007 ms

Loss rate: 0.00%

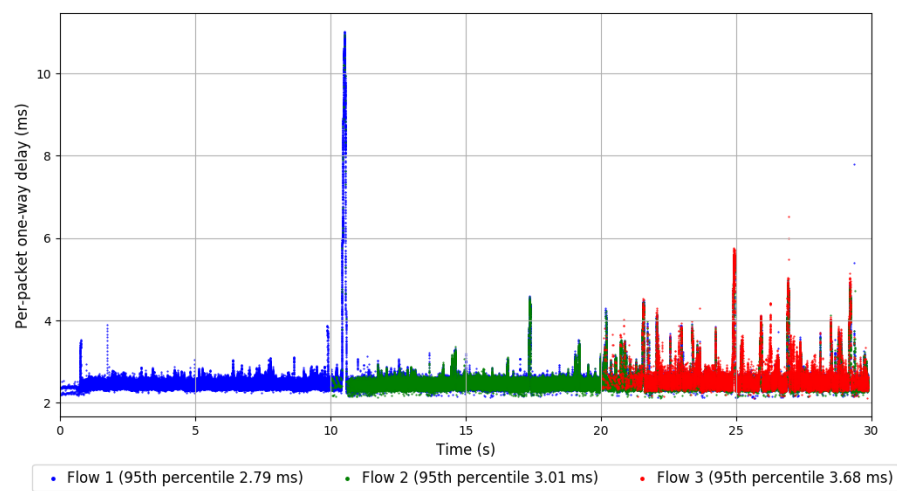
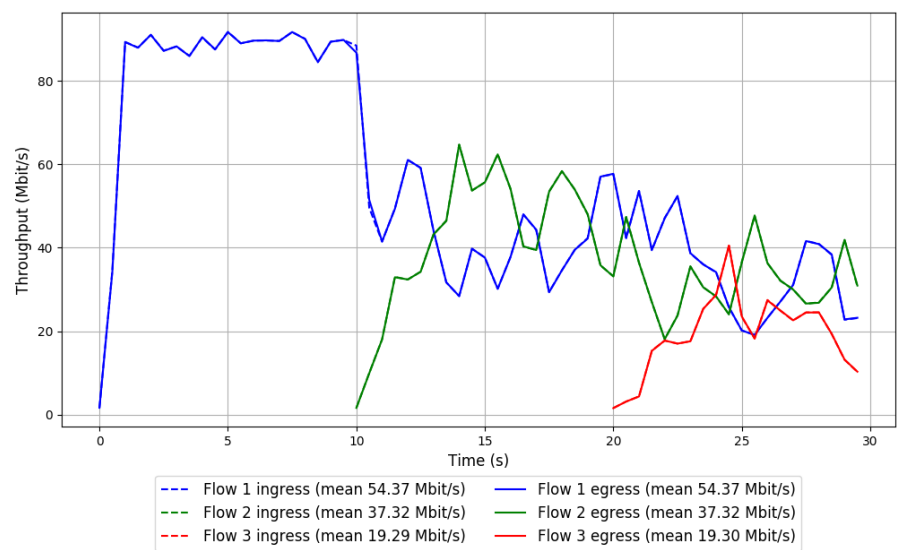
-- Flow 3:

Average throughput: 19.30 Mbit/s

95th percentile per-packet one-way delay: 3.680 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-01 04:00:59

End at: 2018-02-01 04:01:29

Local clock offset: -0.263 ms

Remote clock offset: 1.584 ms

Below is generated by plot.py at 2018-02-01 05:32:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 3.230 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 2.854 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 3.444 ms

Loss rate: 0.00%

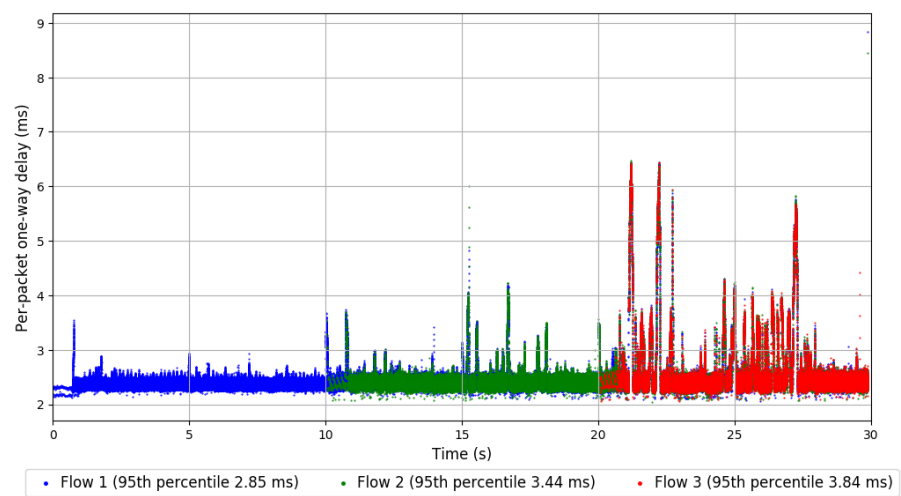
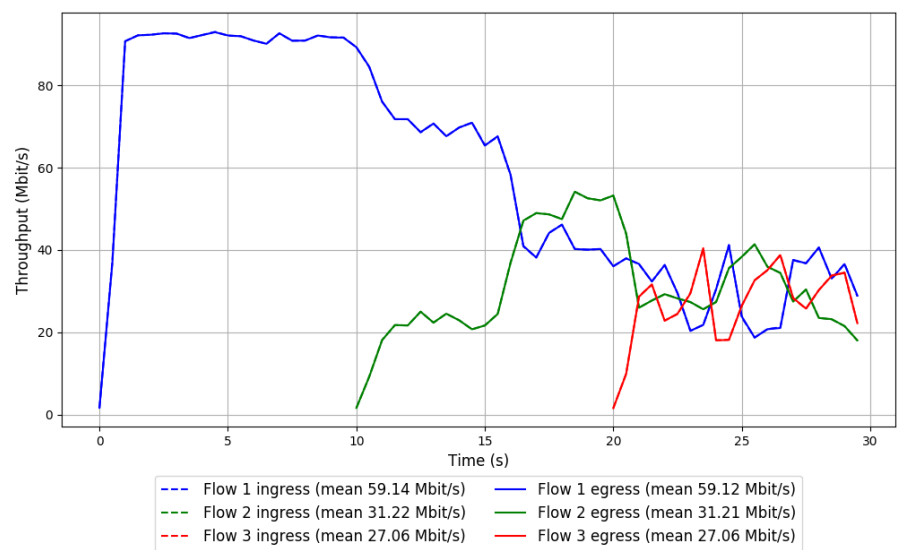
-- Flow 3:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 3.840 ms

Loss rate: 0.01%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-01 04:21:33

End at: 2018-02-01 04:22:03

Local clock offset: -0.295 ms

Remote clock offset: 1.953 ms

Below is generated by plot.py at 2018-02-01 05:32:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.09 Mbit/s

95th percentile per-packet one-way delay: 3.528 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.80 Mbit/s

95th percentile per-packet one-way delay: 2.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.92 Mbit/s

95th percentile per-packet one-way delay: 4.207 ms

Loss rate: 0.00%

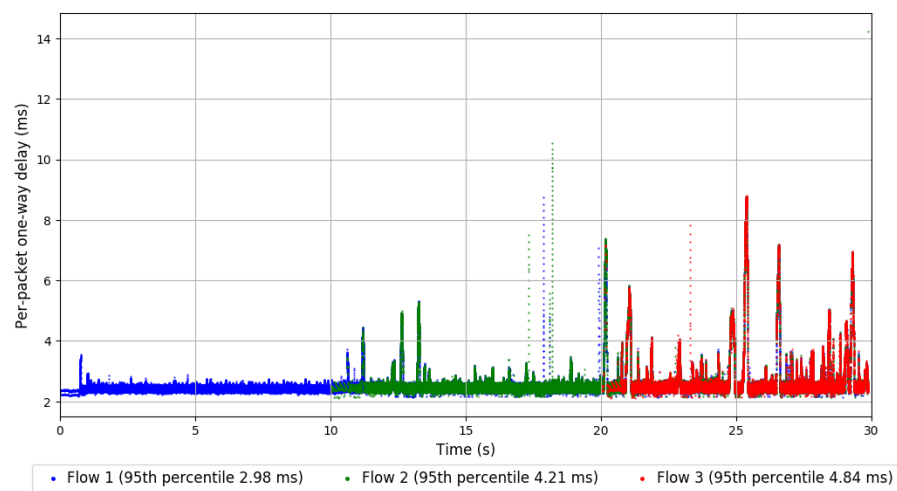
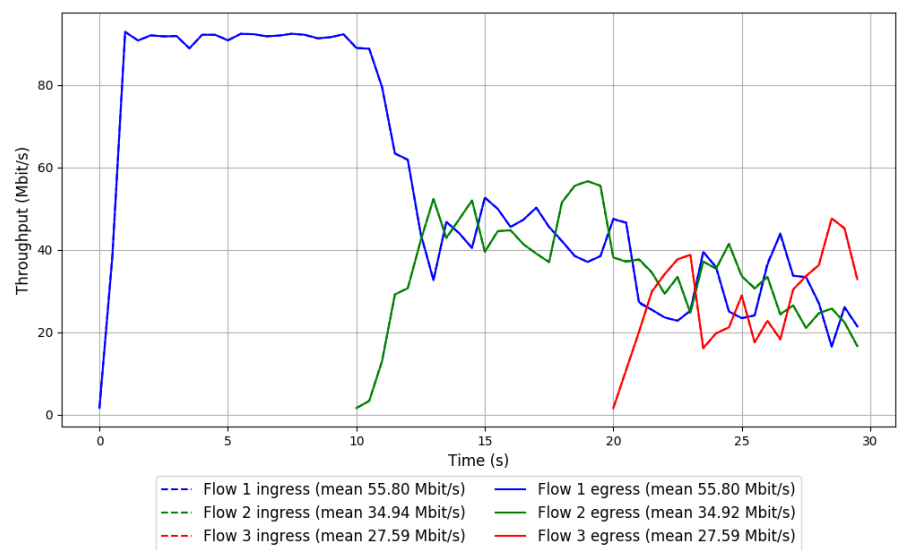
-- Flow 3:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 4.840 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

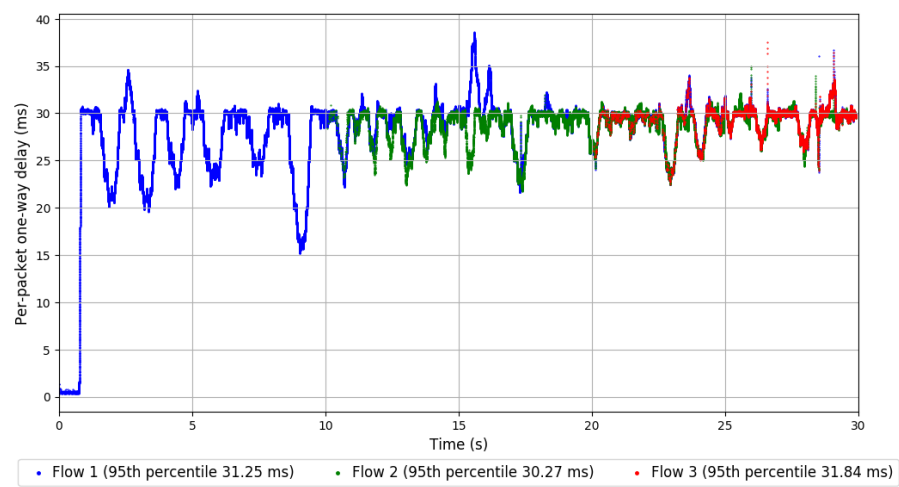
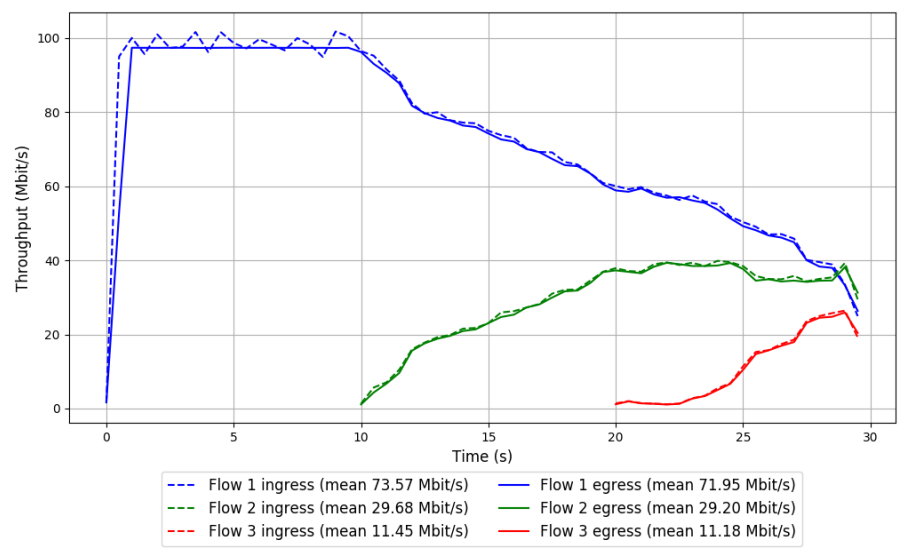


Run 1: Statistics of Vivace-loss

Start at: 2018-02-01 01:19:45
End at: 2018-02-01 01:20:15
Local clock offset: 0.516 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-02-01 05:32:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 30.904 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 31.247 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 29.20 Mbit/s
95th percentile per-packet one-way delay: 30.271 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 31.837 ms
Loss rate: 2.33%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-01 01:41:30

End at: 2018-02-01 01:42:00

Local clock offset: 0.585 ms

Remote clock offset: 1.486 ms

Below is generated by plot.py at 2018-02-01 05:32:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 32.276 ms

Loss rate: 4.36%

-- Flow 1:

Average throughput: 67.34 Mbit/s

95th percentile per-packet one-way delay: 32.378 ms

Loss rate: 5.16%

-- Flow 2:

Average throughput: 32.99 Mbit/s

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

Loss rate: 2.11%

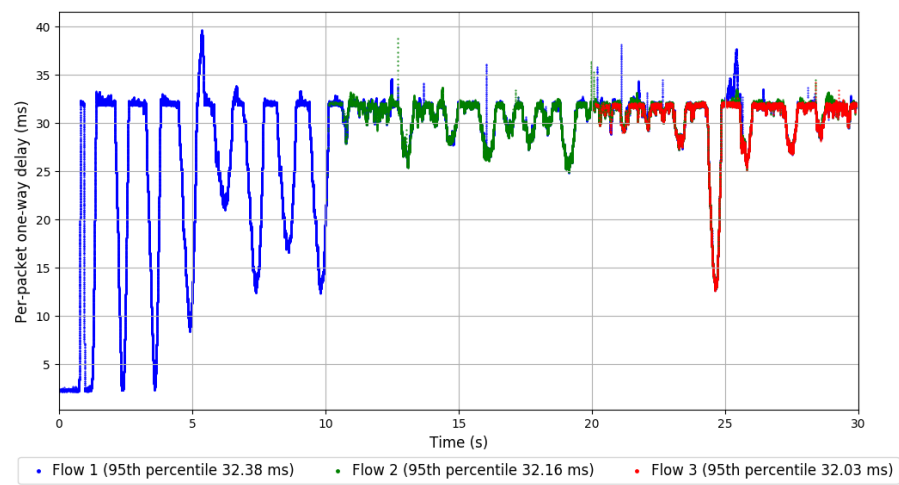
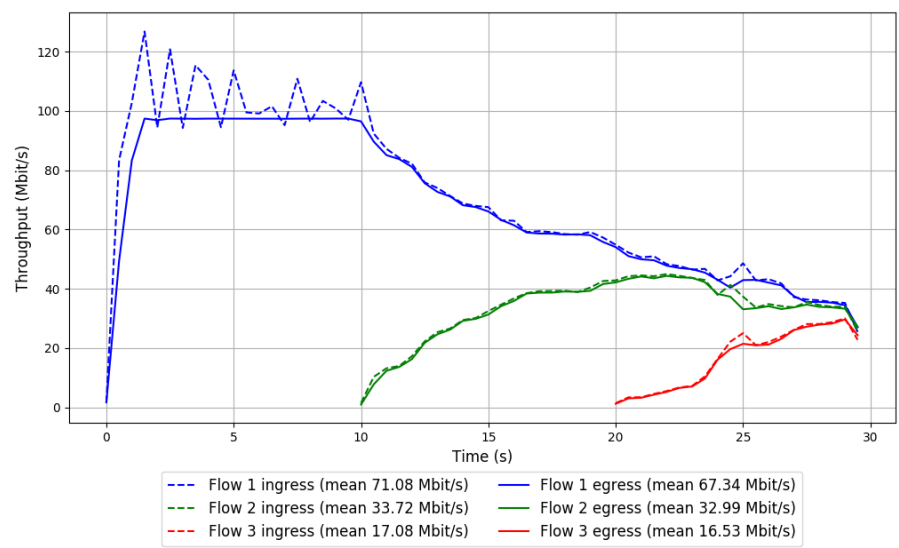
-- Flow 3:

Average throughput: 16.53 Mbit/s

95th percentile per-packet one-way delay: 32.030 ms

Loss rate: 3.22%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-01 02:03:13

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

Local clock offset: 0.545 ms

Remote clock offset: 1.134 ms

Below is generated by plot.py at 2018-02-01 05:32:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 32.098 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 32.106 ms

Loss rate: 2.64%

-- Flow 2:

Average throughput: 20.95 Mbit/s

95th percentile per-packet one-way delay: 32.056 ms

Loss rate: 2.08%

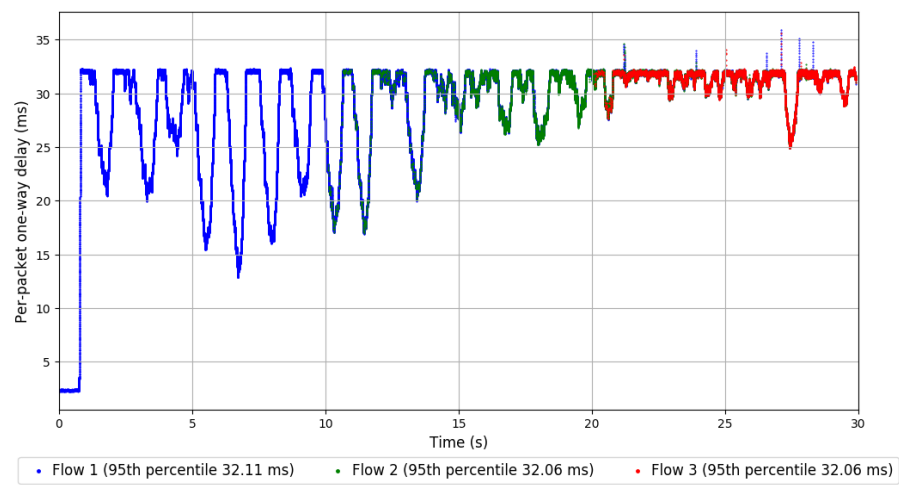
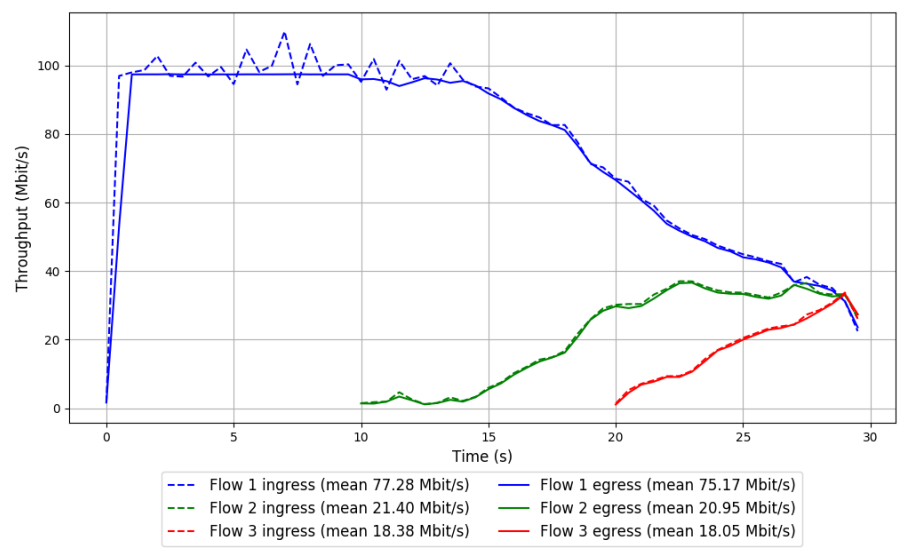
-- Flow 3:

Average throughput: 18.05 Mbit/s

95th percentile per-packet one-way delay: 32.057 ms

Loss rate: 1.82%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-01 02:24:51

End at: 2018-02-01 02:25:21

Local clock offset: 0.507 ms

Remote clock offset: 0.919 ms

Below is generated by plot.py at 2018-02-01 05:33:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 32.097 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 32.092 ms

Loss rate: 3.79%

-- Flow 2:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 32.027 ms

Loss rate: 1.64%

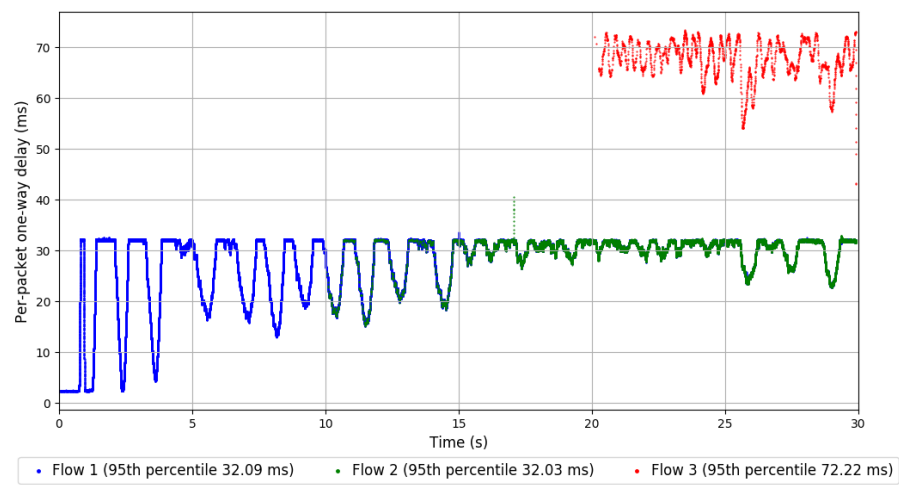
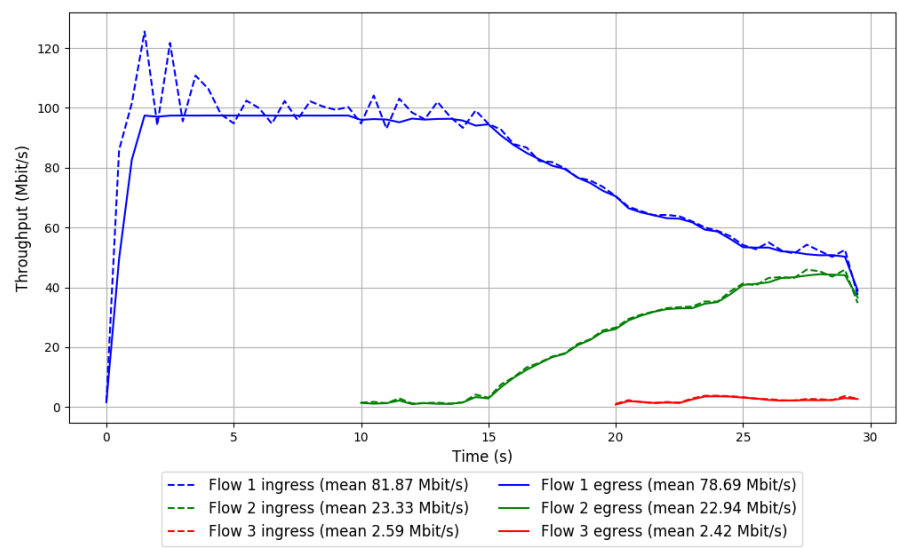
-- Flow 3:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 72.222 ms

Loss rate: 6.92%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-01 02:46:09

End at: 2018-02-01 02:46:39

Local clock offset: 0.311 ms

Remote clock offset: 0.59 ms

Below is generated by plot.py at 2018-02-01 05:33:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.02 Mbit/s

95th percentile per-packet one-way delay: 71.412 ms

Loss rate: 3.11%

-- Flow 1:

Average throughput: 65.04 Mbit/s

95th percentile per-packet one-way delay: 71.910 ms

Loss rate: 3.04%

-- Flow 2:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 32.016 ms

Loss rate: 3.23%

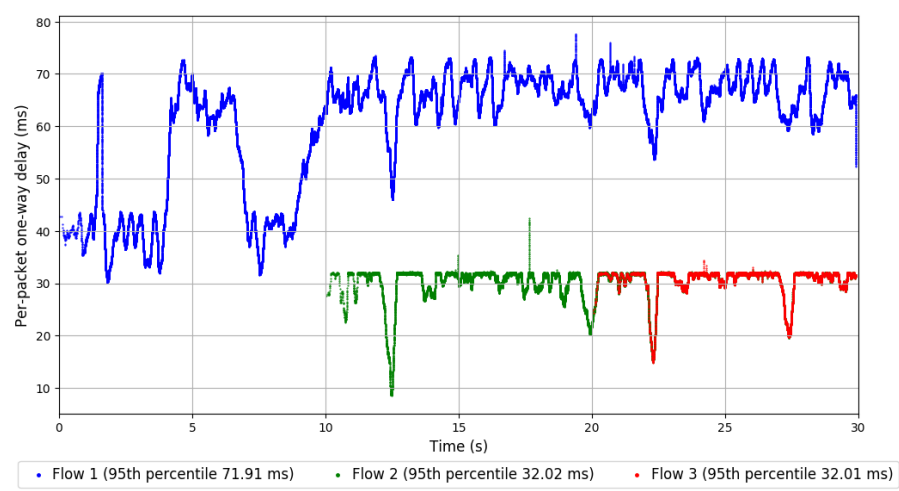
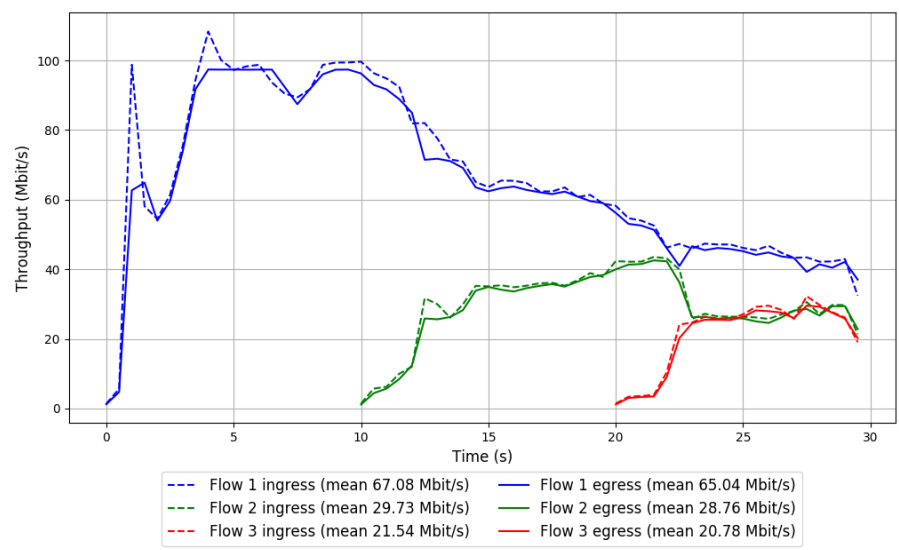
-- Flow 3:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 32.010 ms

Loss rate: 3.47%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-01 03:07:14

End at: 2018-02-01 03:07:44

Local clock offset: 0.068 ms

Remote clock offset: 0.43 ms

Below is generated by plot.py at 2018-02-01 05:33:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.73 Mbit/s

95th percentile per-packet one-way delay: 68.768 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 75.82 Mbit/s

95th percentile per-packet one-way delay: 32.170 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 72.276 ms

Loss rate: 2.77%

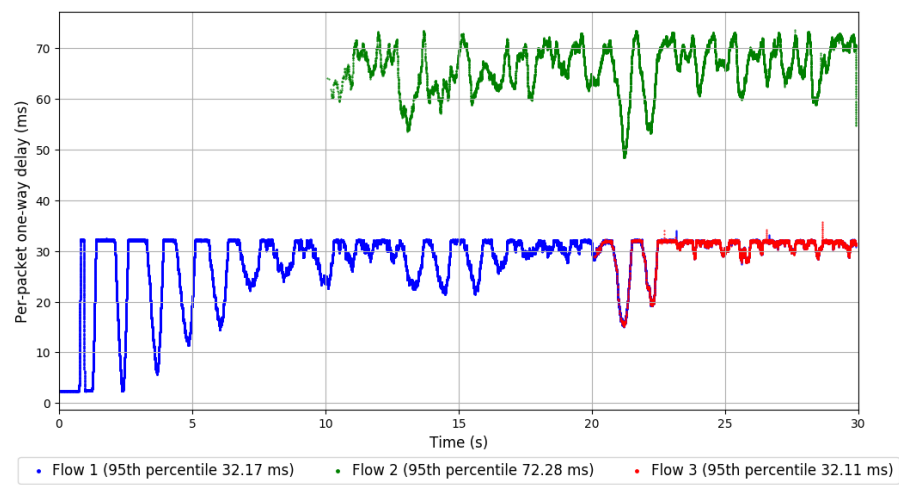
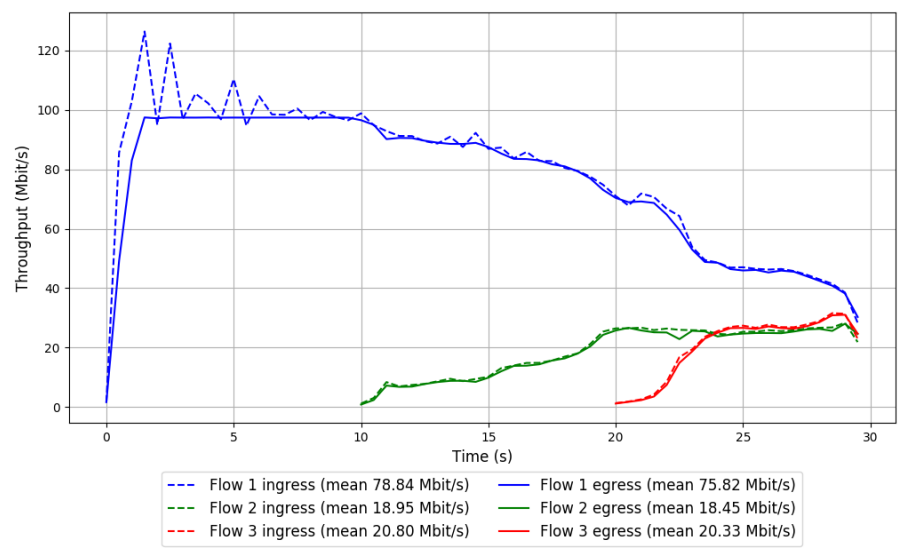
-- Flow 3:

Average throughput: 20.33 Mbit/s

95th percentile per-packet one-way delay: 32.108 ms

Loss rate: 2.27%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-01 03:27:49

End at: 2018-02-01 03:28:19

Local clock offset: -0.053 ms

Remote clock offset: 0.82 ms

Below is generated by plot.py at 2018-02-01 05:33:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 32.083 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 70.87 Mbit/s

95th percentile per-packet one-way delay: 32.092 ms

Loss rate: 2.25%

-- Flow 2:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 32.051 ms

Loss rate: 1.86%

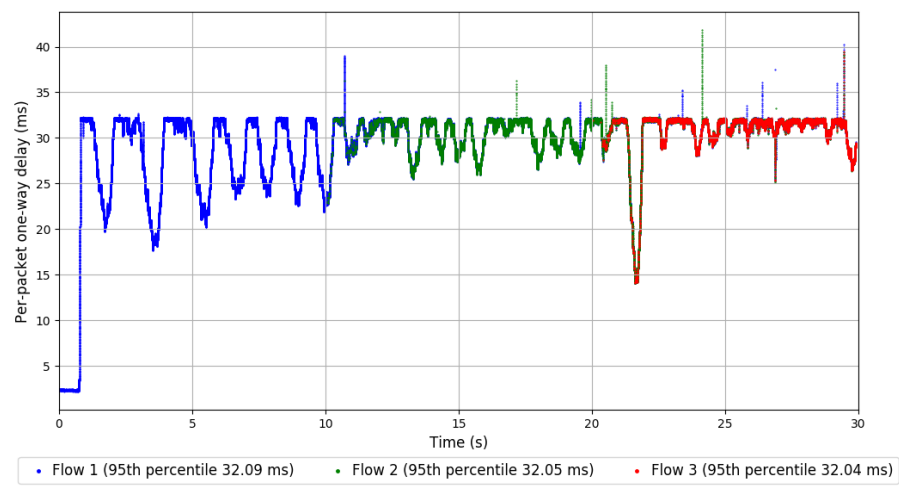
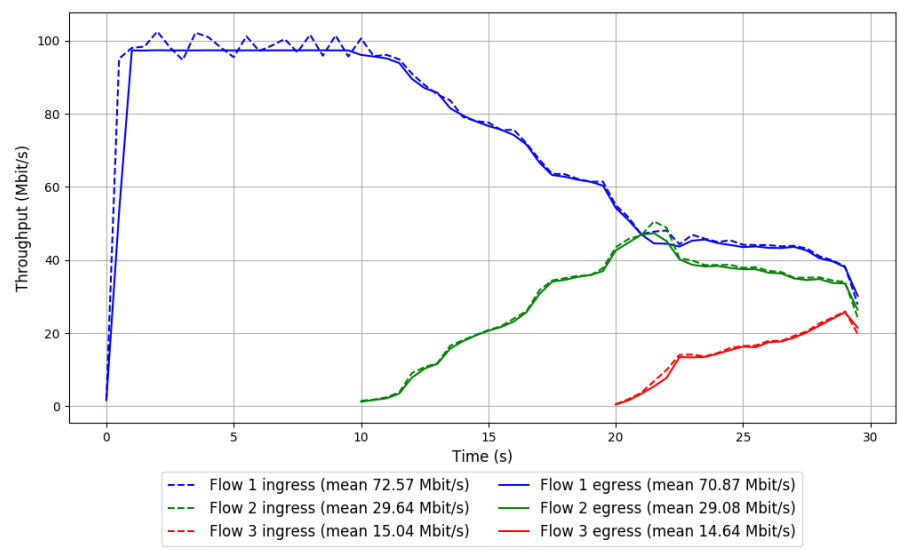
-- Flow 3:

Average throughput: 14.64 Mbit/s

95th percentile per-packet one-way delay: 32.037 ms

Loss rate: 2.69%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-01 03:48:22

End at: 2018-02-01 03:48:52

Local clock offset: -0.196 ms

Remote clock offset: 1.312 ms

Below is generated by plot.py at 2018-02-01 05:33:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 32.137 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 32.171 ms

Loss rate: 2.79%

-- Flow 2:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 32.007 ms

Loss rate: 1.95%

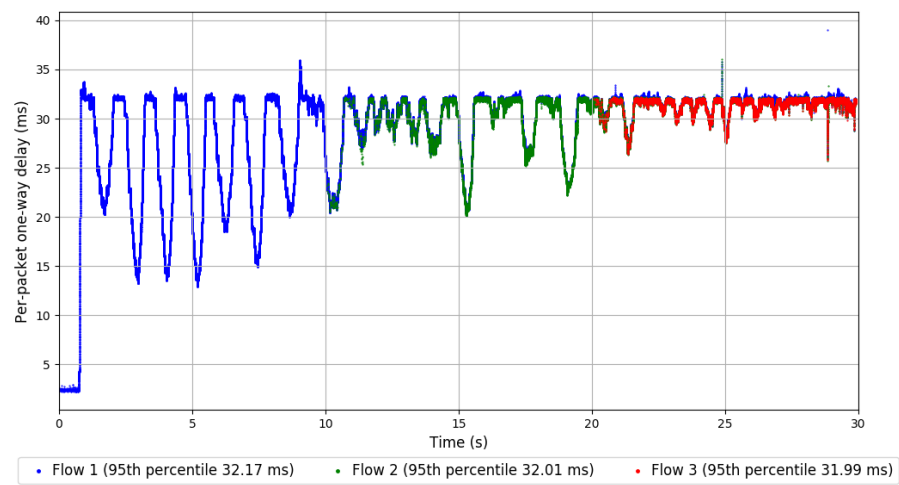
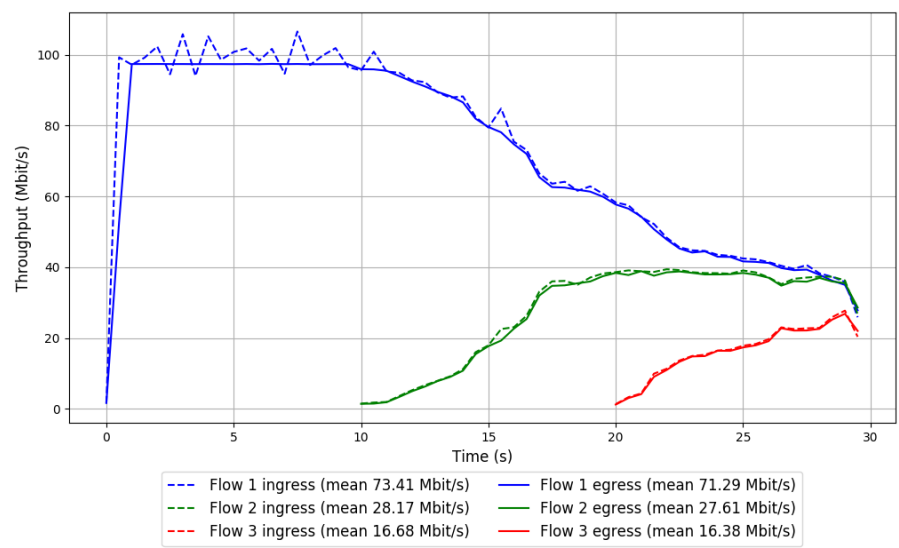
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 31.994 ms

Loss rate: 1.83%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-01 04:08:57

End at: 2018-02-01 04:09:27

Local clock offset: -0.367 ms

Remote clock offset: 1.691 ms

Below is generated by plot.py at 2018-02-01 05:34:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 32.090 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 68.84 Mbit/s

95th percentile per-packet one-way delay: 32.103 ms

Loss rate: 4.13%

-- Flow 2:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 32.041 ms

Loss rate: 2.13%

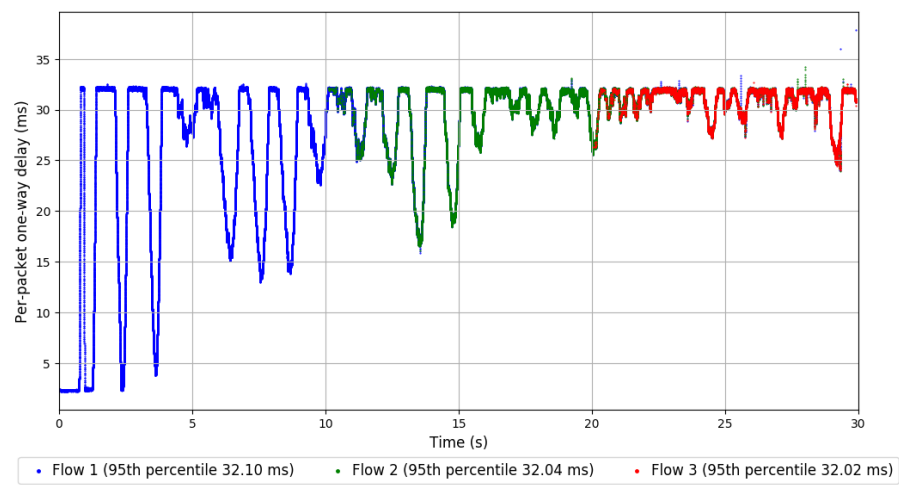
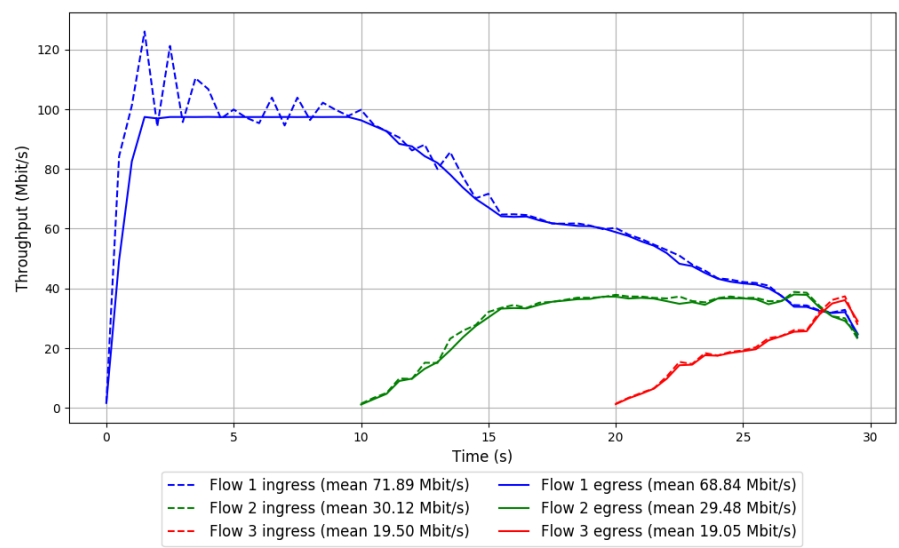
-- Flow 3:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 32.023 ms

Loss rate: 2.24%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-01 04:29:31

End at: 2018-02-01 04:30:01

Local clock offset: -0.303 ms

Remote clock offset: 1.992 ms

Below is generated by plot.py at 2018-02-01 05:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 32.020 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 32.031 ms

Loss rate: 3.71%

-- Flow 2:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 31.967 ms

Loss rate: 1.99%

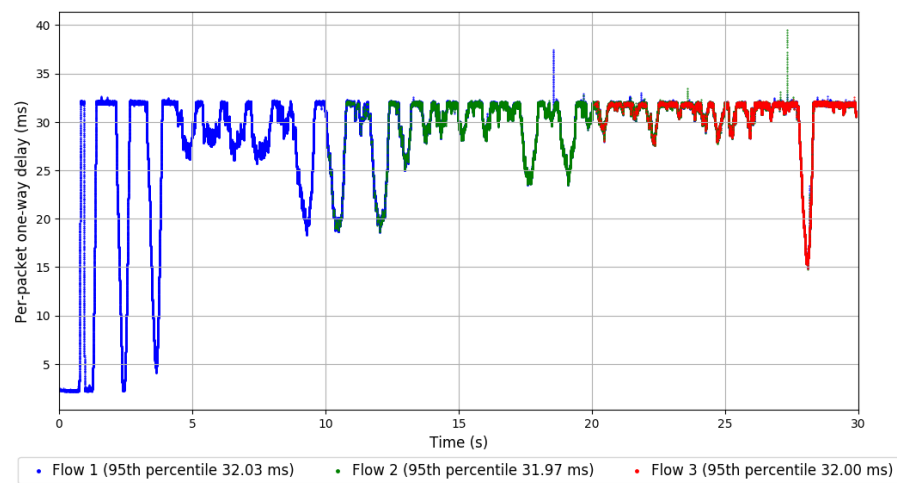
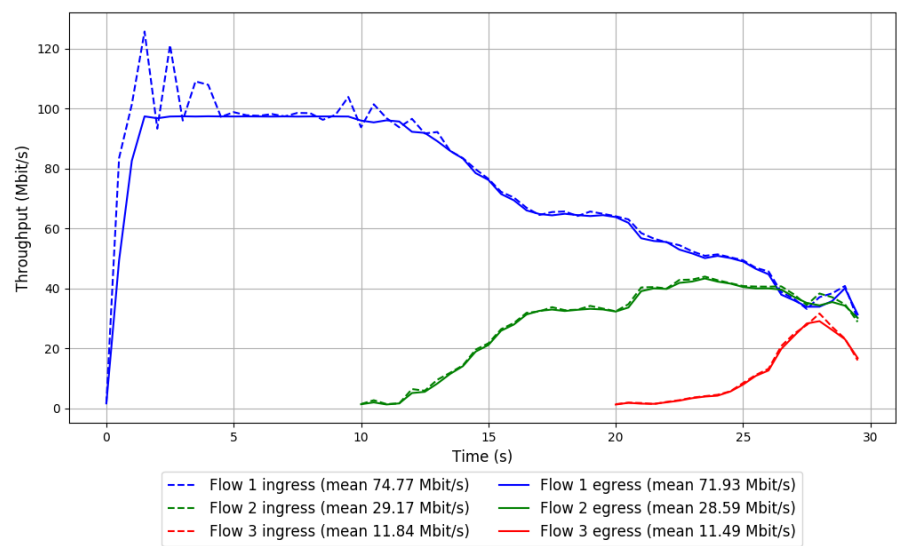
-- Flow 3:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 31.996 ms

Loss rate: 2.94%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-01 01:17:17

End at: 2018-02-01 01:17:47

Local clock offset: 0.533 ms

Remote clock offset: 1.644 ms

Below is generated by plot.py at 2018-02-01 05:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.09 Mbit/s

95th percentile per-packet one-way delay: 32.229 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 32.088 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 42.45 Mbit/s

95th percentile per-packet one-way delay: 32.092 ms

Loss rate: 0.39%

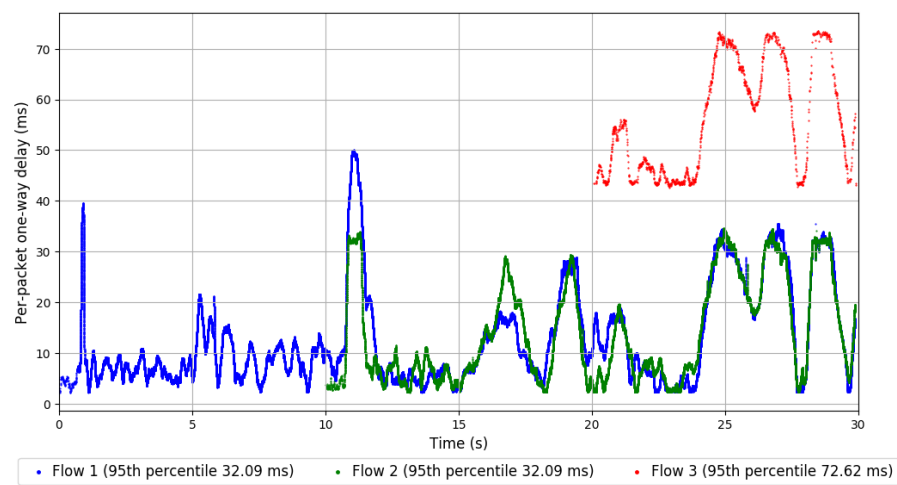
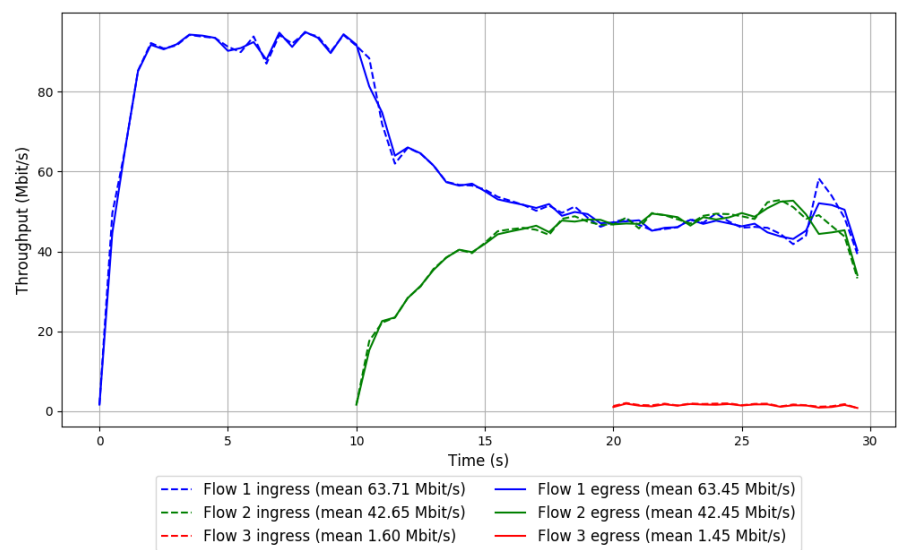
-- Flow 3:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 72.618 ms

Loss rate: 9.65%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-01 01:39:00

End at: 2018-02-01 01:39:30

Local clock offset: 0.54 ms

Remote clock offset: 1.62 ms

Below is generated by plot.py at 2018-02-01 05:34:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 32.046 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 31.990 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 32.060 ms

Loss rate: 0.74%

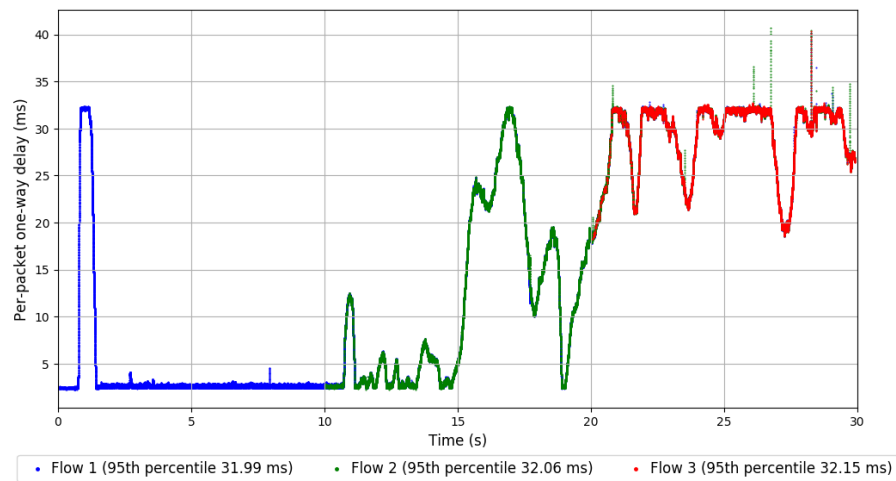
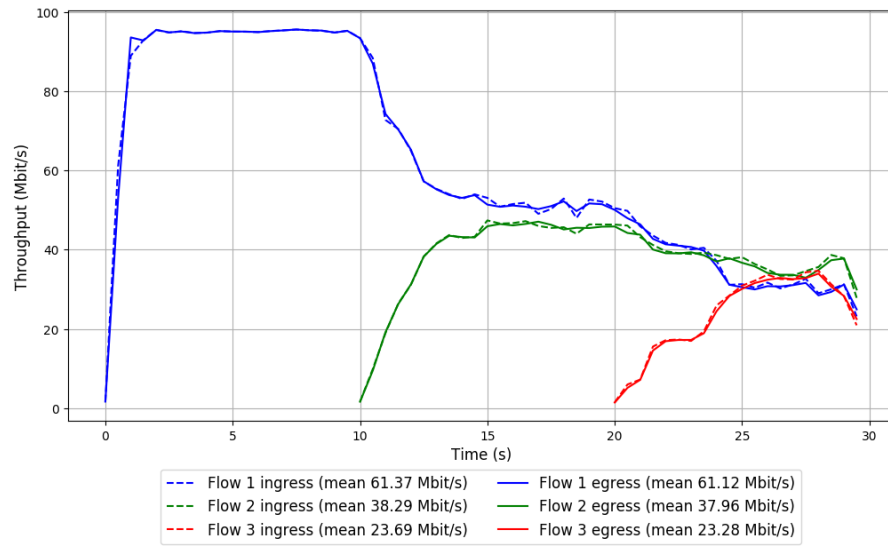
-- Flow 3:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 32.152 ms

Loss rate: 1.63%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-01 02:00:47

End at: 2018-02-01 02:01:17

Local clock offset: 0.576 ms

Remote clock offset: 1.179 ms

Below is generated by plot.py at 2018-02-01 05:34:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 31.993 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 31.820 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 31.854 ms

Loss rate: 0.39%

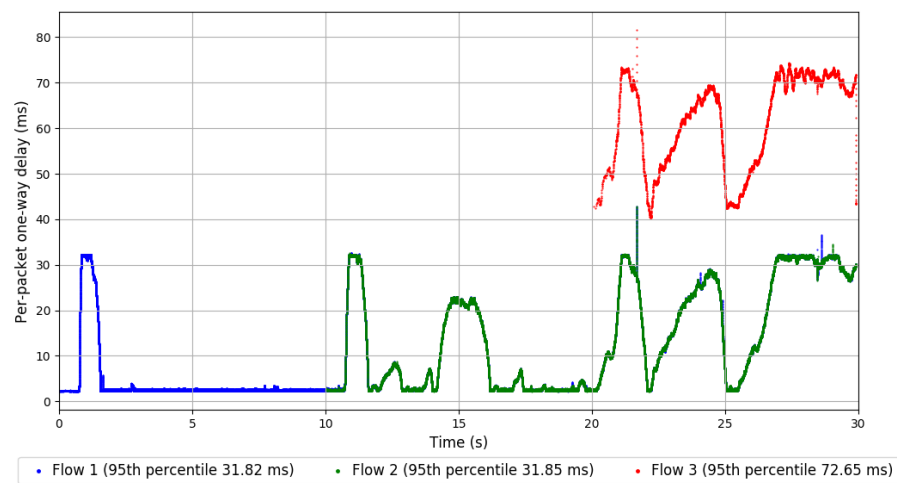
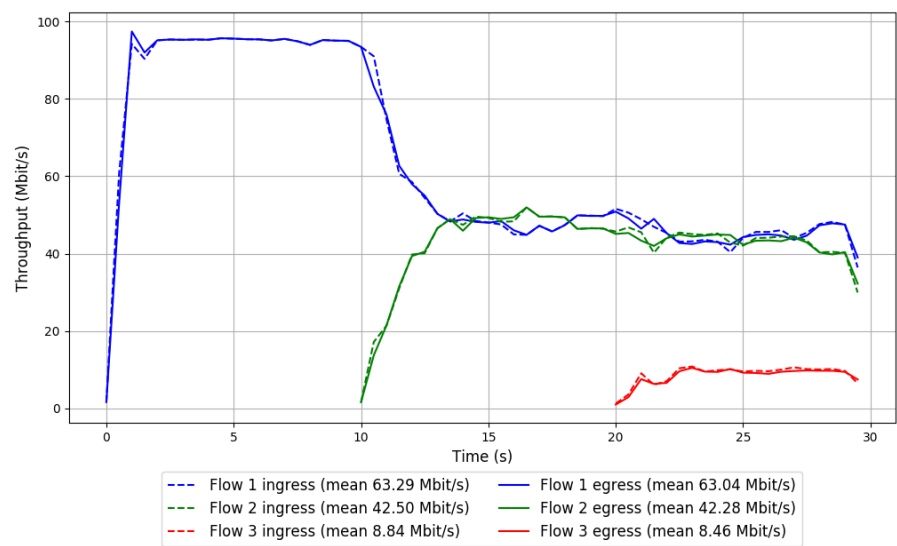
-- Flow 3:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 72.646 ms

Loss rate: 4.33%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-01 02:22:25

End at: 2018-02-01 02:22:55

Local clock offset: 0.466 ms

Remote clock offset: 0.949 ms

Below is generated by plot.py at 2018-02-01 05:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 32.050 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 62.00 Mbit/s

95th percentile per-packet one-way delay: 32.037 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 36.77 Mbit/s

95th percentile per-packet one-way delay: 32.063 ms

Loss rate: 0.91%

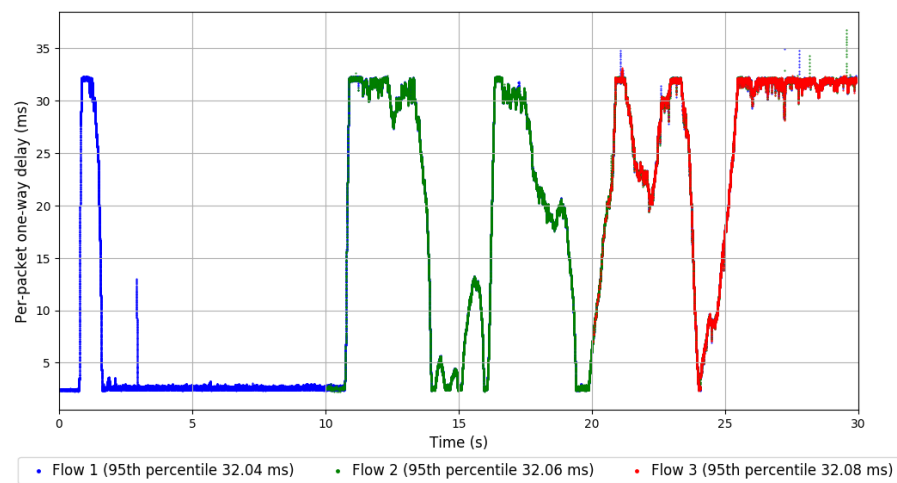
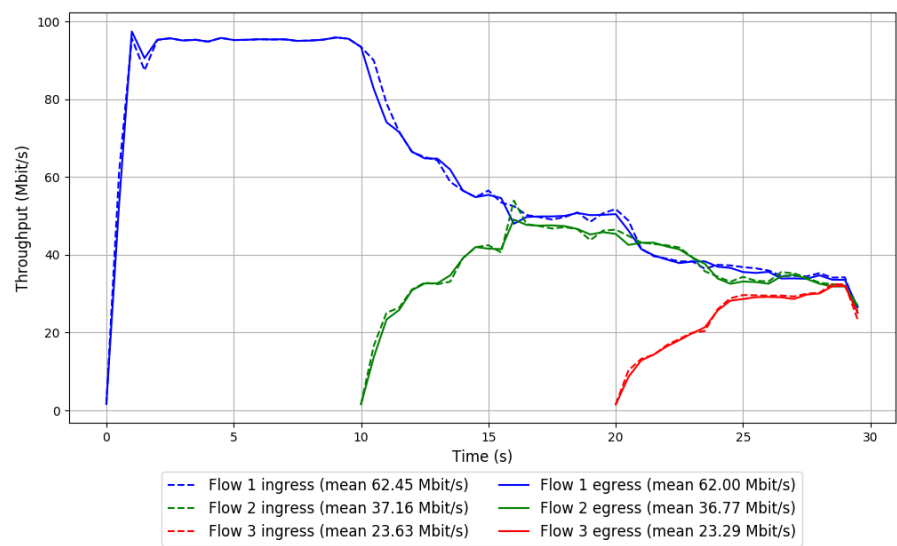
-- Flow 3:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 32.076 ms

Loss rate: 1.18%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-01 02:43:43

End at: 2018-02-01 02:44:13

Local clock offset: 0.337 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-02-01 05:35:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 32.033 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 31.948 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 31.928 ms

Loss rate: 0.63%

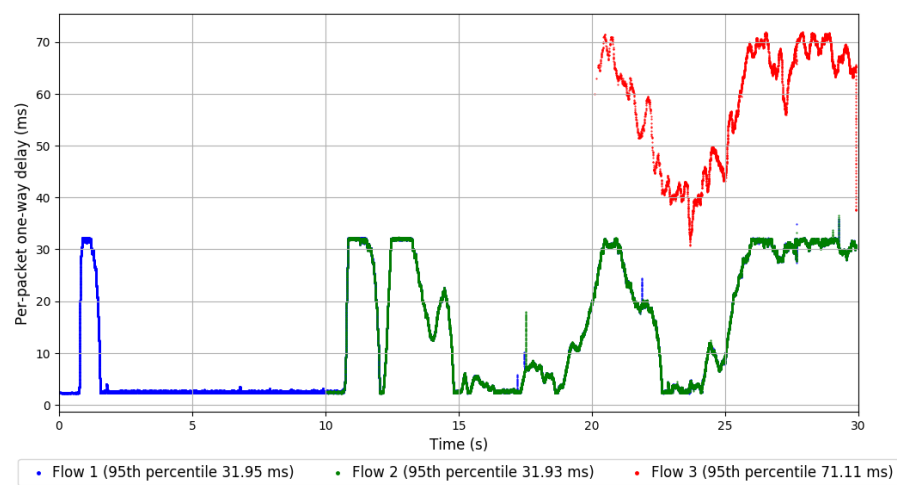
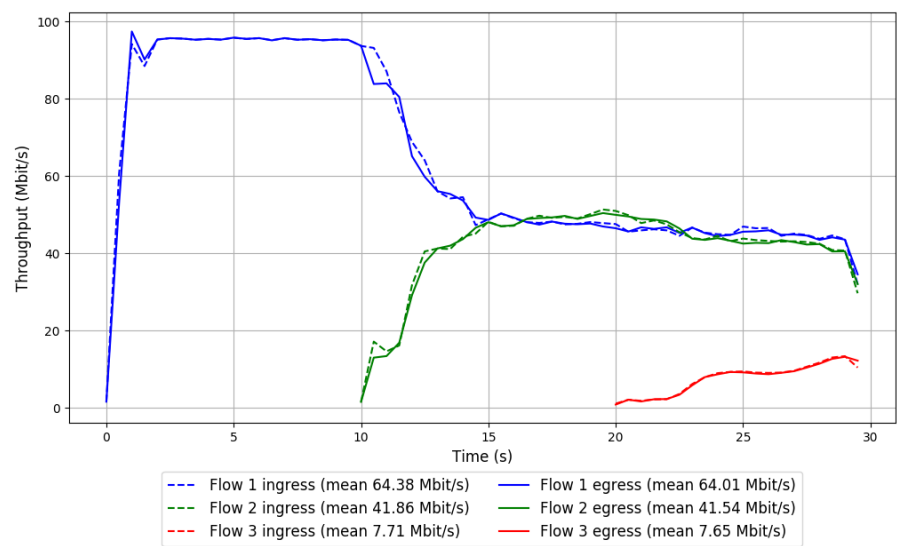
-- Flow 3:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 71.115 ms

Loss rate: 0.95%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-01 03:04:52

End at: 2018-02-01 03:05:22

Local clock offset: 0.159 ms

Remote clock offset: 0.379 ms

Below is generated by plot.py at 2018-02-01 05:35:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 31.898 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 31.890 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 31.912 ms

Loss rate: 0.98%

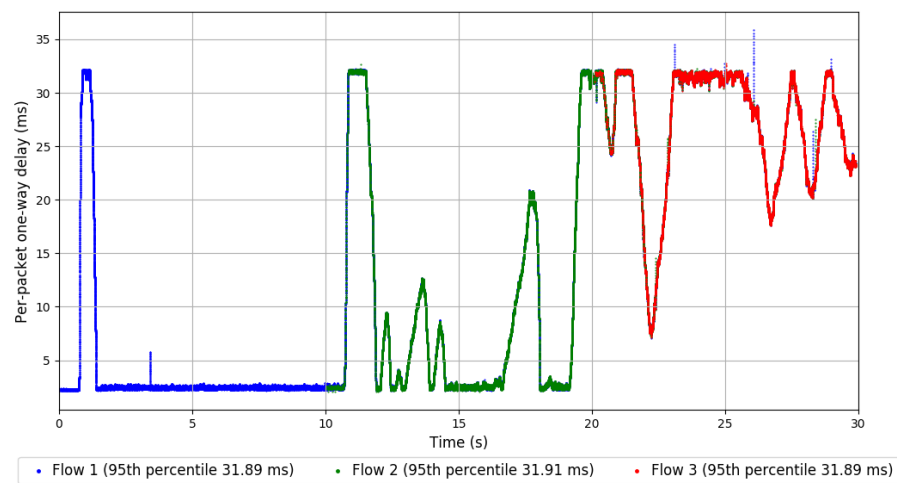
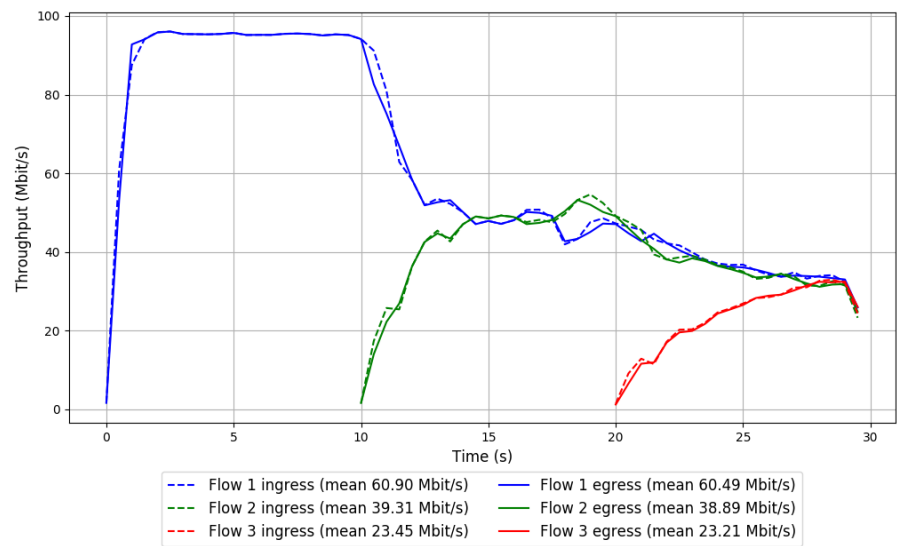
-- Flow 3:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 31.890 ms

Loss rate: 1.07%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-01 03:25:28

End at: 2018-02-01 03:25:58

Local clock offset: 0.0 ms

Remote clock offset: 0.751 ms

Below is generated by plot.py at 2018-02-01 05:35:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 31.807 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 59.93 Mbit/s

95th percentile per-packet one-way delay: 31.735 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 36.72 Mbit/s

95th percentile per-packet one-way delay: 31.813 ms

Loss rate: 0.77%

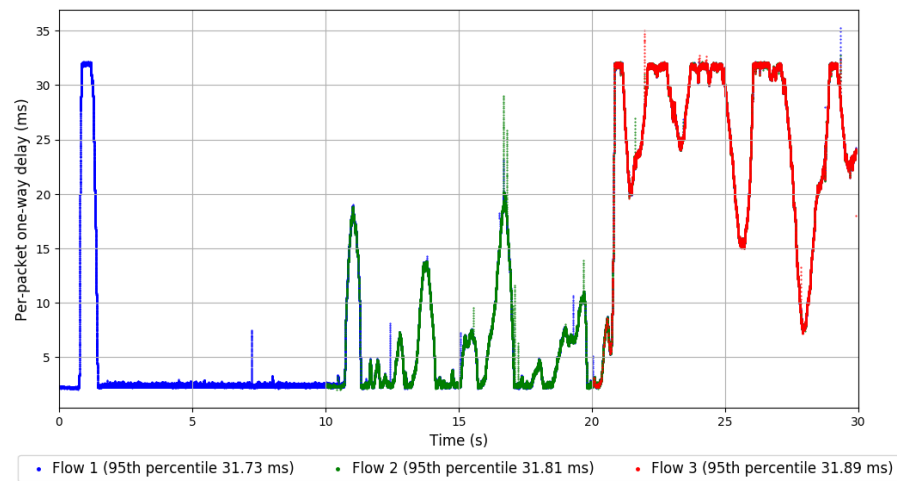
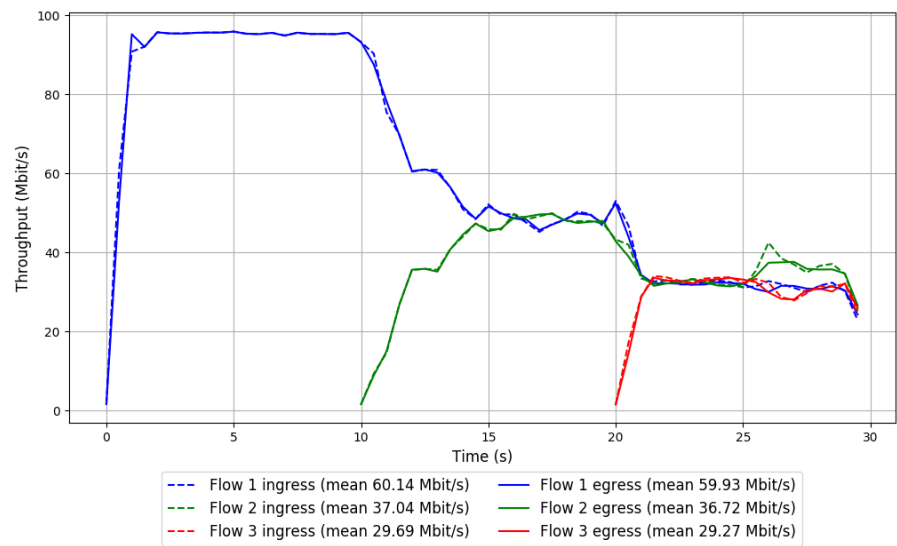
-- Flow 3:

Average throughput: 29.27 Mbit/s

95th percentile per-packet one-way delay: 31.895 ms

Loss rate: 1.25%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

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

End at: 2018-02-01 03:46:32

Local clock offset: -0.157 ms

Remote clock offset: 1.199 ms

Below is generated by plot.py at 2018-02-01 05:35:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.93 Mbit/s

95th percentile per-packet one-way delay: 31.891 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 31.881 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 31.897 ms

Loss rate: 0.72%

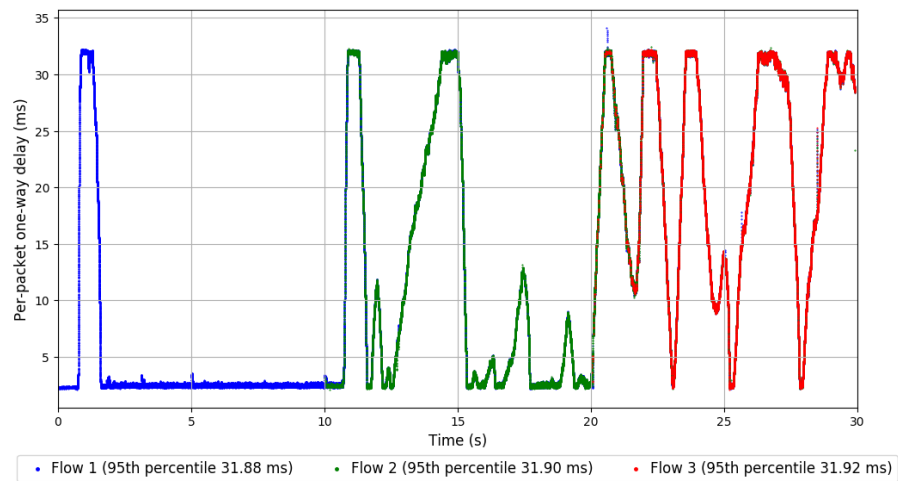
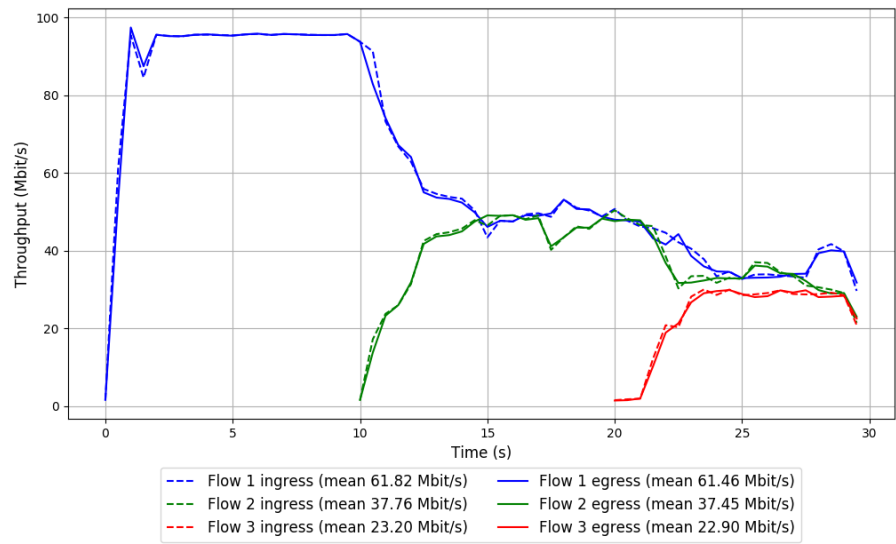
-- Flow 3:

Average throughput: 22.90 Mbit/s

95th percentile per-packet one-way delay: 31.917 ms

Loss rate: 1.04%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-01 04:06:36

End at: 2018-02-01 04:07:06

Local clock offset: -0.264 ms

Remote clock offset: 1.734 ms

Below is generated by plot.py at 2018-02-01 05:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.13 Mbit/s

95th percentile per-packet one-way delay: 31.924 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 31.893 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 31.922 ms

Loss rate: 0.69%

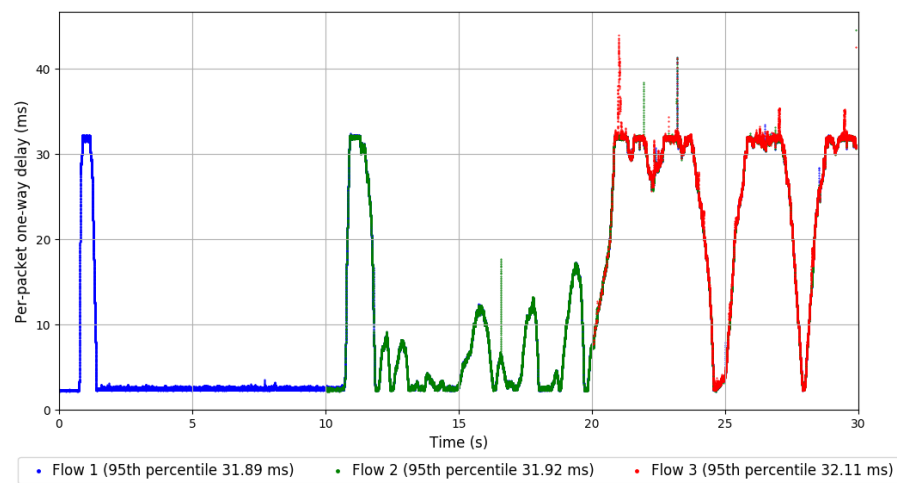
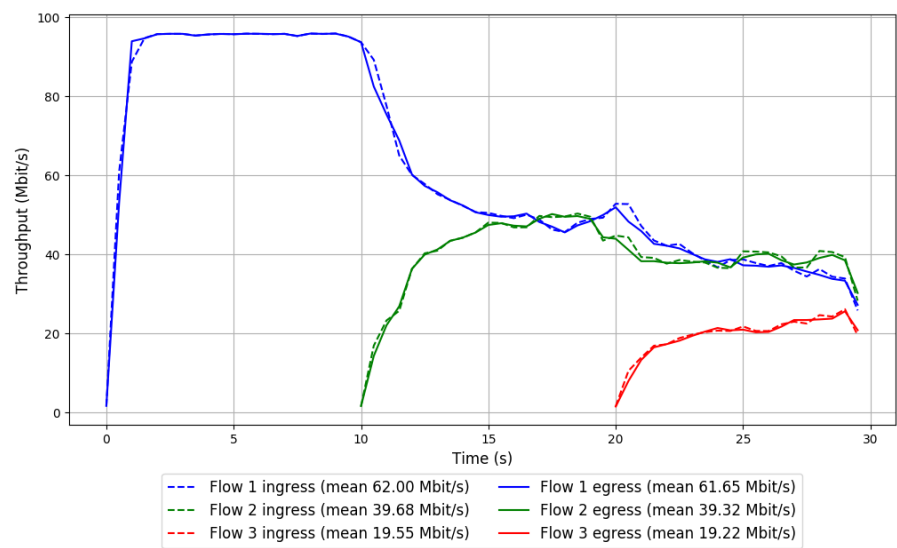
-- Flow 3:

Average throughput: 19.22 Mbit/s

95th percentile per-packet one-way delay: 32.110 ms

Loss rate: 1.33%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-01 04:27:10

End at: 2018-02-01 04:27:40

Local clock offset: -0.303 ms

Remote clock offset: 1.965 ms

Below is generated by plot.py at 2018-02-01 05:35:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 31.852 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 60.65 Mbit/s

95th percentile per-packet one-way delay: 31.814 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 31.885 ms

Loss rate: 0.76%

-- Flow 3:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 31.897 ms

Loss rate: 1.19%

Run 10: Report of Vivace-LTE — Data Link

