

Pantheon Report

Generated at 2018-02-05 03:44:23 (UTC).

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

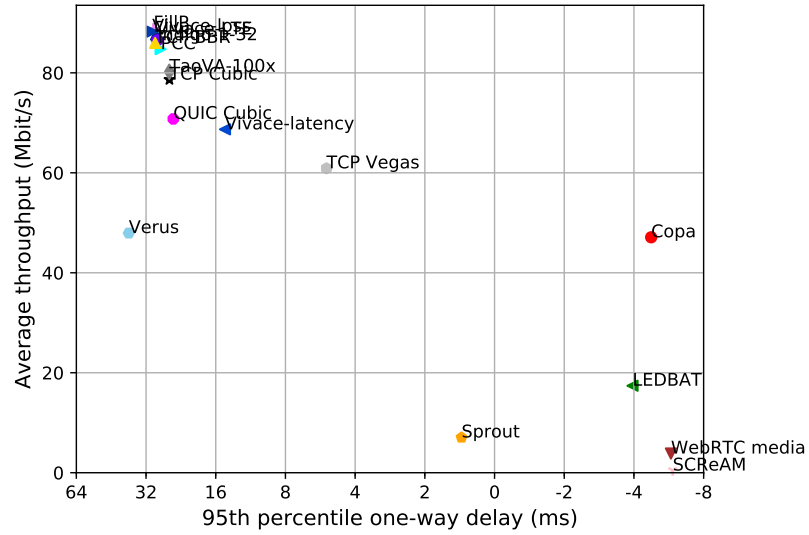
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

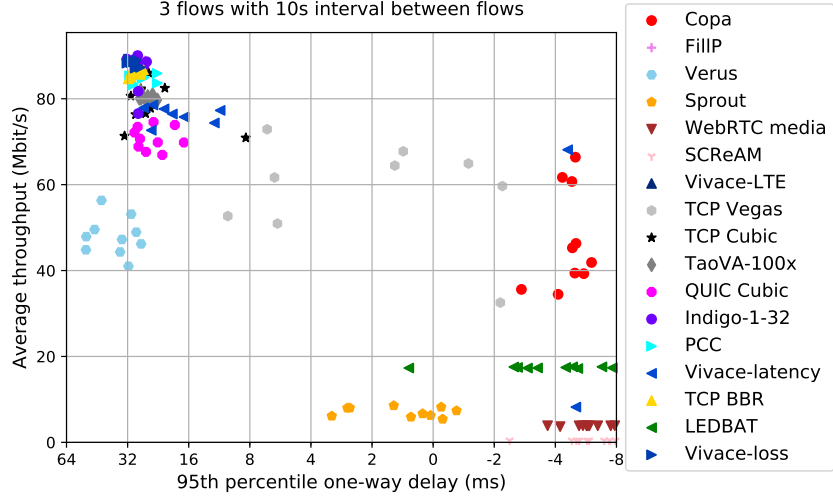
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



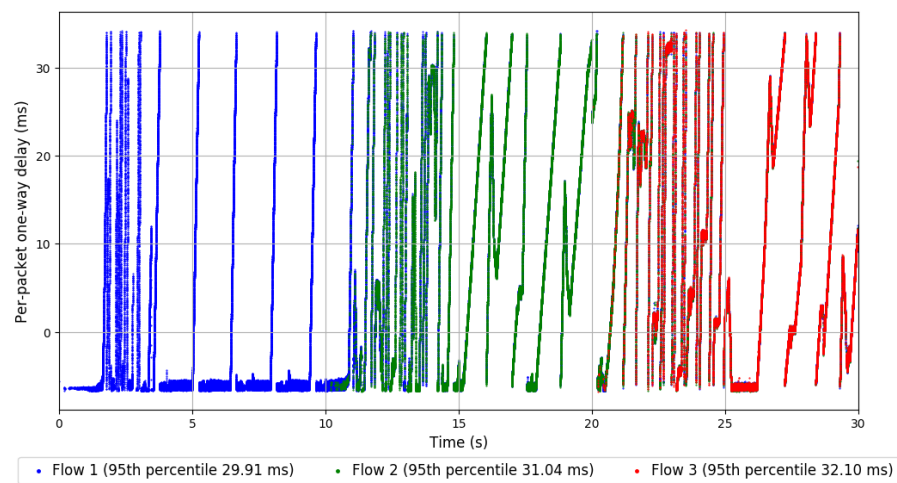
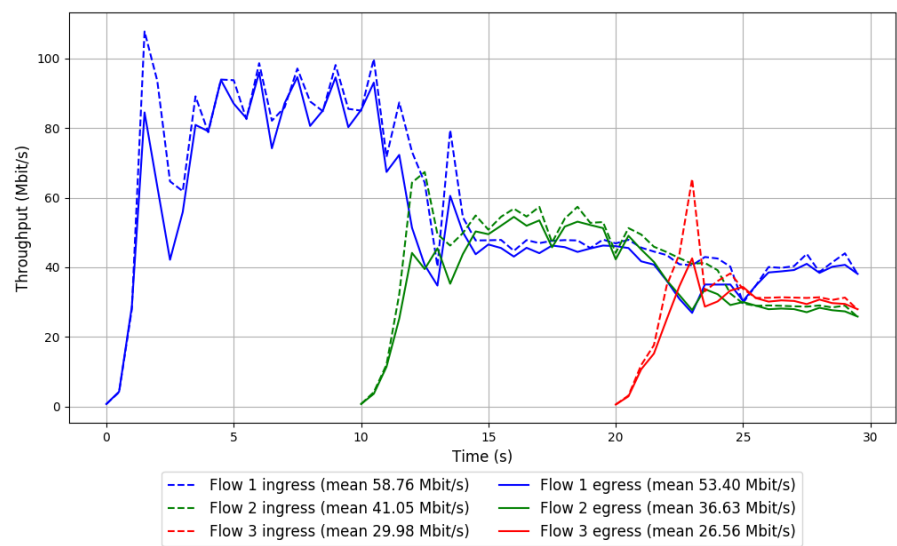
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	55.48	33.32	25.36	28.65	29.67	30.49	8.60	10.42	12.15
TCP Cubic	10	42.06	45.19	19.63	23.14	25.99	27.94	2.28	2.08	1.75
LEDBAT	10	11.28	7.43	3.59	-4.13	-3.79	-4.05	0.00	0.00	0.00
PCC	10	70.70	17.37	7.53	27.18	28.80	29.91	4.06	4.07	5.43
QUIC Cubic	10	49.85	25.24	13.02	23.84	23.91	27.04	1.93	1.77	5.65
SCReAM	10	0.22	0.22	0.22	-5.90	-5.89	-5.85	0.00	0.00	0.00
WebRTC media	10	2.11	1.31	0.44	-6.08	-5.58	-4.85	0.00	0.00	0.03
Sprout	10	3.71	3.49	3.13	0.77	0.95	0.69	0.00	0.00	0.08
TaoVA-100x	10	49.39	35.47	22.24	23.95	26.80	26.89	8.30	15.46	21.10
TCP Vegas	10	33.93	25.60	29.96	5.19	5.67	5.08	1.13	1.23	1.68
Verus	10	34.79	15.36	11.16	37.23	27.23	30.24	60.04	37.02	46.87
Copa	10	27.89	21.35	15.03	-5.02	-4.59	-3.81	0.00	0.00	0.00
FillP	10	50.56	38.05	39.28	27.85	30.75	31.00	15.94	24.83	31.66
Indigo-1-32	10	58.85	35.42	13.87	27.12	30.08	26.49	26.48	34.20	52.82
Vivace-latency	10	56.80	14.95	5.94	14.69	14.54	11.84	0.44	0.40	0.23
Vivace-loss	10	78.44	11.46	6.66	30.06	30.33	30.58	6.38	5.79	6.09
Vivace-LTE	10	74.34	15.36	9.47	28.87	28.81	29.70	4.07	2.83	3.88

Run 1: Statistics of TCP BBR

Start at: 2018-02-04 23:07:39
End at: 2018-02-04 23:08:09
Local clock offset: -0.936 ms
Remote clock offset: 10.229 ms

Below is generated by plot.py at 2018-02-05 03:21:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 30.509 ms
Loss rate: 9.76%
-- Flow 1:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 29.908 ms
Loss rate: 9.07%
-- Flow 2:
Average throughput: 36.63 Mbit/s
95th percentile per-packet one-way delay: 31.037 ms
Loss rate: 10.63%
-- Flow 3:
Average throughput: 26.56 Mbit/s
95th percentile per-packet one-way delay: 32.097 ms
Loss rate: 11.45%

Run 1: Report of TCP BBR — Data Link

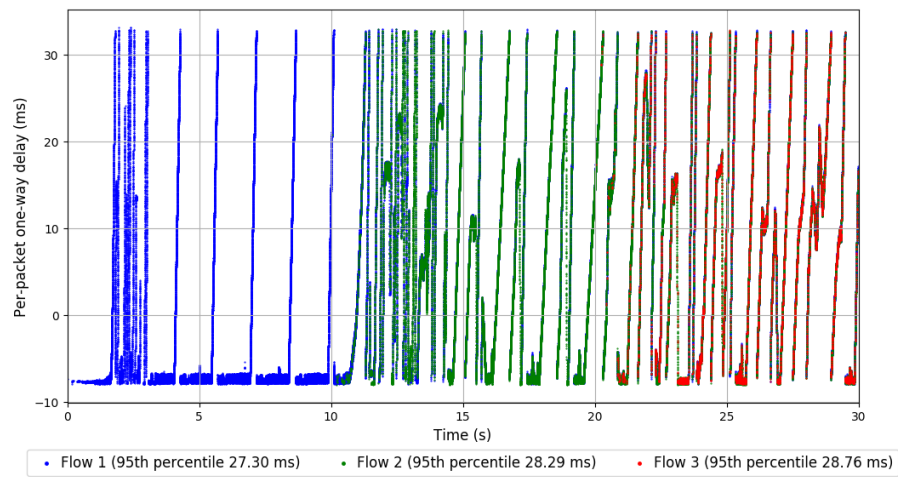
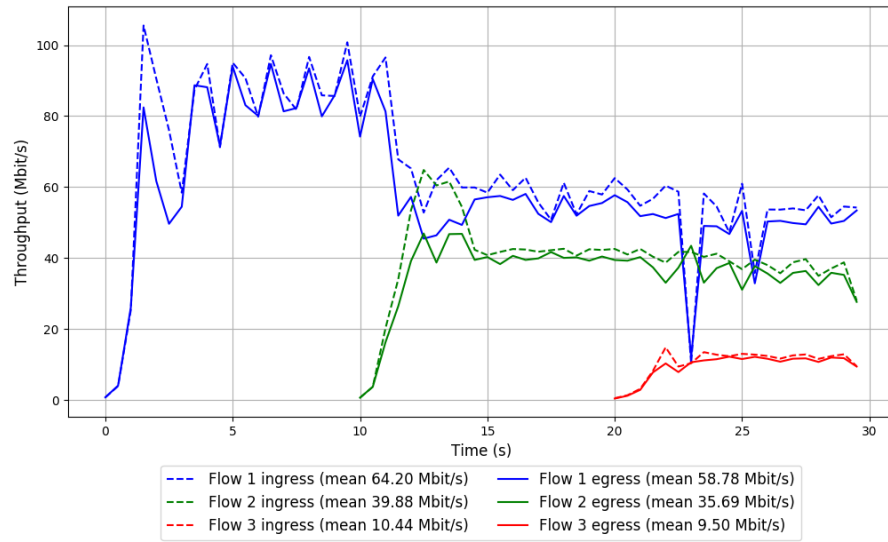


Run 2: Statistics of TCP BBR

Start at: 2018-02-04 23:32:38
End at: 2018-02-04 23:33:08
Local clock offset: 0.967 ms
Remote clock offset: 13.362 ms

Below is generated by plot.py at 2018-02-05 03:21:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 27.663 ms
Loss rate: 8.99%
-- Flow 1:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 27.299 ms
Loss rate: 8.37%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 28.286 ms
Loss rate: 10.51%
-- Flow 3:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 28.758 ms
Loss rate: 9.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-04 23:57:14

End at: 2018-02-04 23:57:44

Local clock offset: -0.767 ms

Remote clock offset: 2.538 ms

Below is generated by plot.py at 2018-02-05 03:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 26.719 ms

Loss rate: 8.53%

-- Flow 1:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 26.393 ms

Loss rate: 8.01%

-- Flow 2:

Average throughput: 27.26 Mbit/s

95th percentile per-packet one-way delay: 27.236 ms

Loss rate: 8.31%

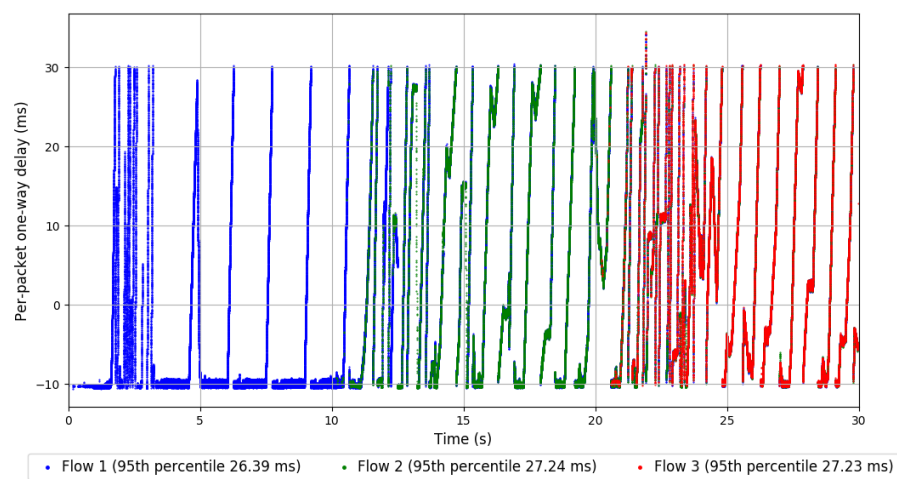
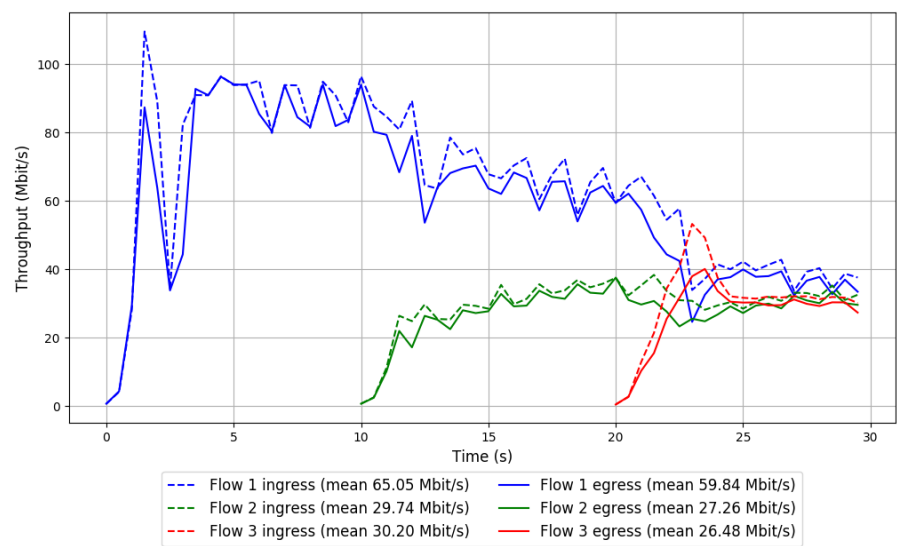
-- Flow 3:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 27.228 ms

Loss rate: 12.37%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-05 00:21:53

End at: 2018-02-05 00:22:23

Local clock offset: 3.079 ms

Remote clock offset: 4.497 ms

Below is generated by plot.py at 2018-02-05 03:21:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 29.103 ms

Loss rate: 9.51%

-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 28.519 ms

Loss rate: 8.26%

-- Flow 2:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 29.579 ms

Loss rate: 10.40%

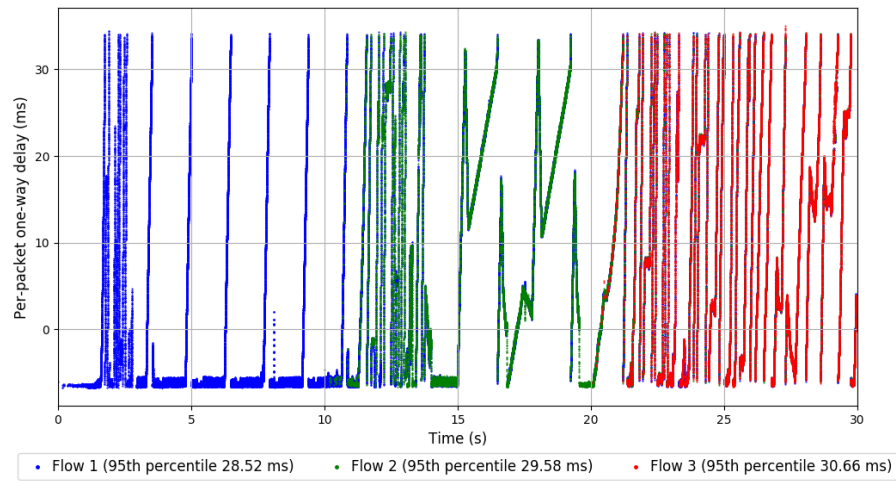
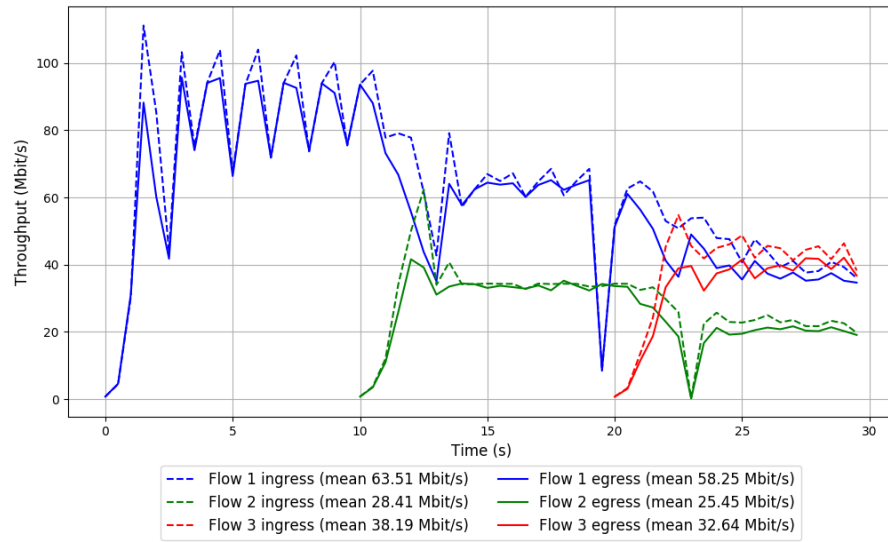
-- Flow 3:

Average throughput: 32.64 Mbit/s

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

Loss rate: 14.45%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-05 00:47:04

End at: 2018-02-05 00:47:34

Local clock offset: 2.528 ms

Remote clock offset: 3.613 ms

Below is generated by plot.py at 2018-02-05 03:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 30.738 ms

Loss rate: 9.63%

-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 30.084 ms

Loss rate: 8.79%

-- Flow 2:

Average throughput: 37.14 Mbit/s

95th percentile per-packet one-way delay: 30.923 ms

Loss rate: 10.36%

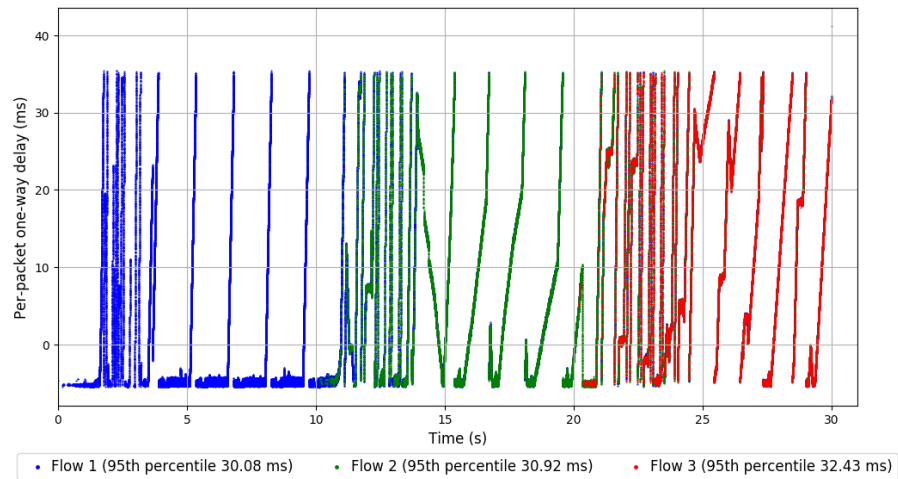
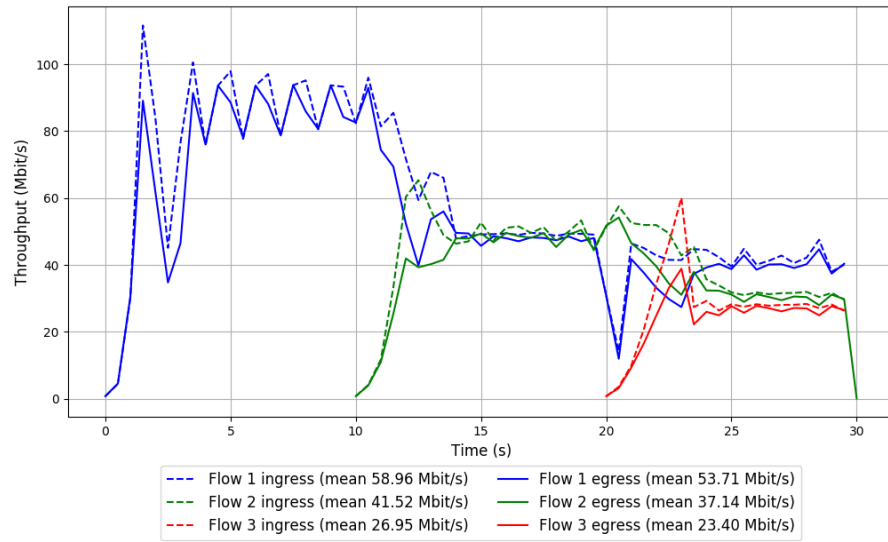
-- Flow 3:

Average throughput: 23.40 Mbit/s

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

Loss rate: 12.92%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-05 01:12:05

End at: 2018-02-05 01:12:35

Local clock offset: -0.981 ms

Remote clock offset: 2.166 ms

Below is generated by plot.py at 2018-02-05 03:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.64 Mbit/s

95th percentile per-packet one-way delay: 31.762 ms

Loss rate: 10.02%

-- Flow 1:

Average throughput: 49.52 Mbit/s

95th percentile per-packet one-way delay: 30.720 ms

Loss rate: 8.66%

-- Flow 2:

Average throughput: 36.27 Mbit/s

95th percentile per-packet one-way delay: 31.443 ms

Loss rate: 10.63%

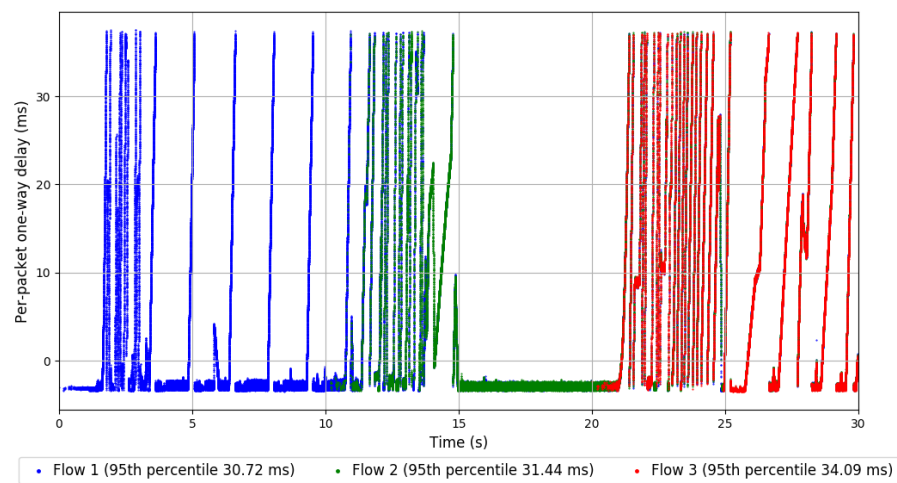
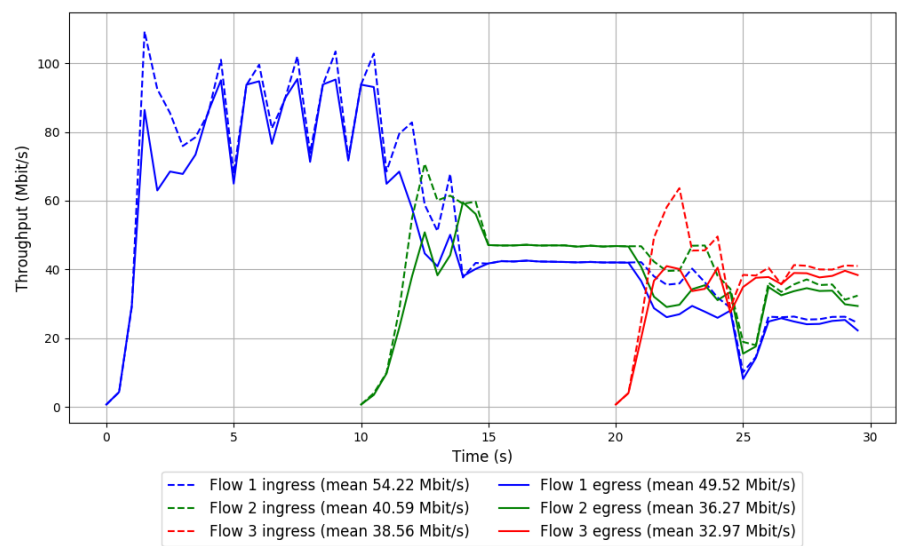
-- Flow 3:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 34.085 ms

Loss rate: 14.47%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-05 01:36:29

End at: 2018-02-05 01:36:59

Local clock offset: 3.355 ms

Remote clock offset: 4.024 ms

Below is generated by plot.py at 2018-02-05 03:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.25 Mbit/s

95th percentile per-packet one-way delay: 27.557 ms

Loss rate: 9.66%

-- Flow 1:

Average throughput: 53.72 Mbit/s

95th percentile per-packet one-way delay: 27.265 ms

Loss rate: 8.95%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 27.696 ms

Loss rate: 10.22%

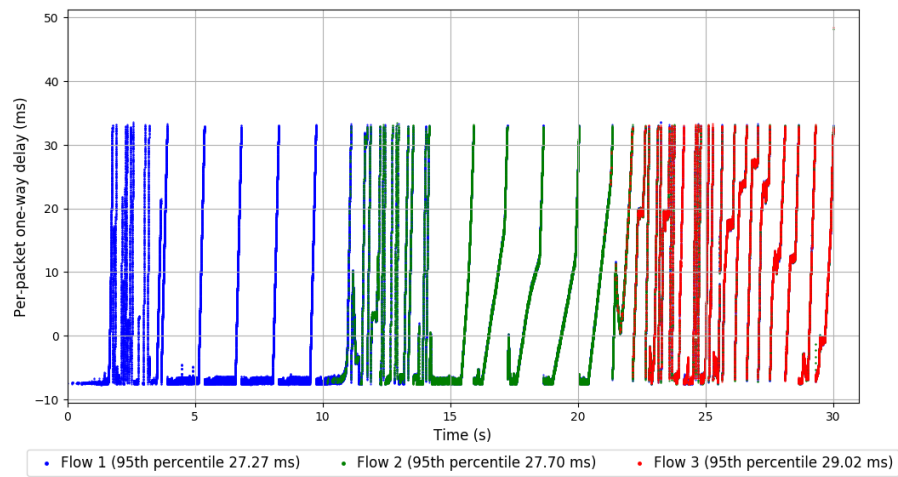
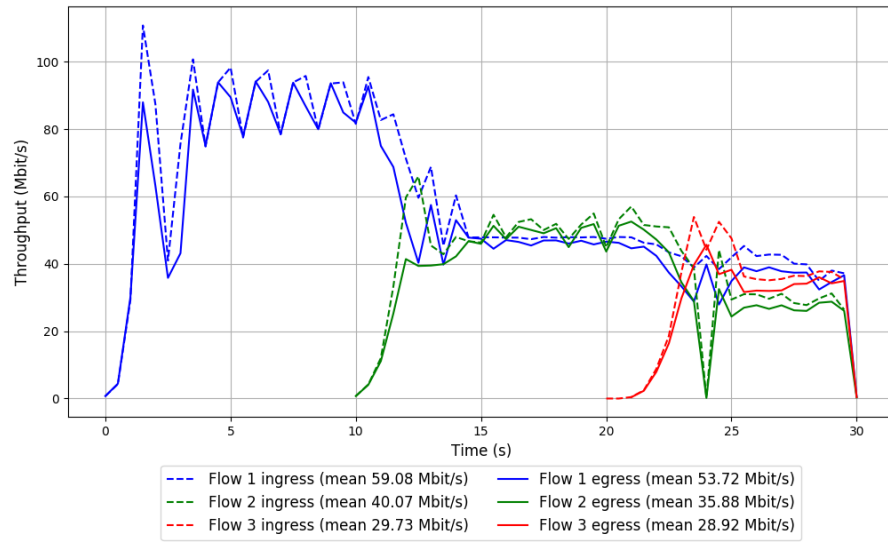
-- Flow 3:

Average throughput: 28.92 Mbit/s

95th percentile per-packet one-way delay: 29.019 ms

Loss rate: 12.38%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-05 02:01:21

End at: 2018-02-05 02:01:51

Local clock offset: 3.275 ms

Remote clock offset: 2.932 ms

Below is generated by plot.py at 2018-02-05 03:21:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 27.888 ms

Loss rate: 7.60%

-- Flow 1:

Average throughput: 59.16 Mbit/s

95th percentile per-packet one-way delay: 27.531 ms

Loss rate: 7.12%

-- Flow 2:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 28.459 ms

Loss rate: 8.71%

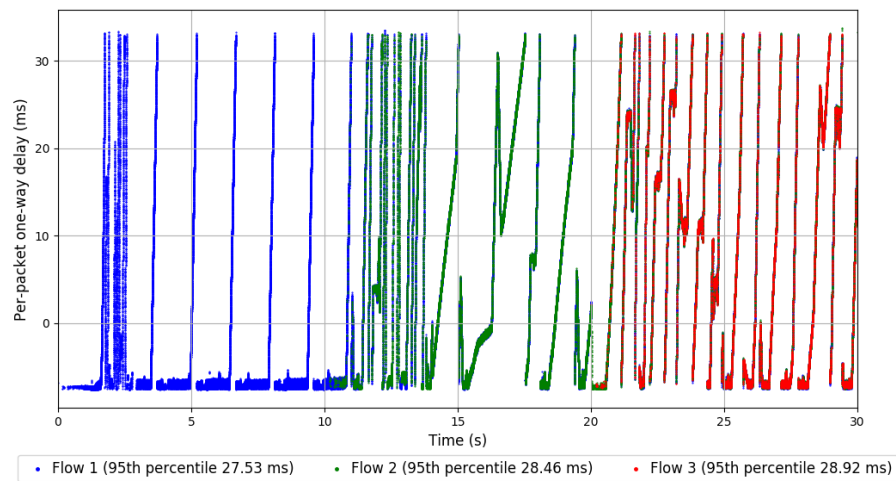
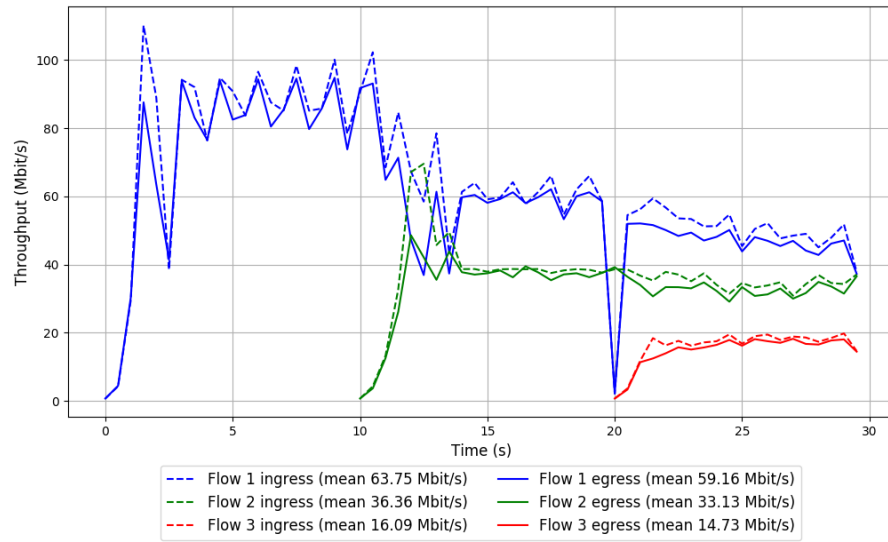
-- Flow 3:

Average throughput: 14.73 Mbit/s

95th percentile per-packet one-way delay: 28.924 ms

Loss rate: 8.28%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-05 02:26:31

End at: 2018-02-05 02:27:01

Local clock offset: 1.718 ms

Remote clock offset: 2.122 ms

Below is generated by plot.py at 2018-02-05 03:22:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 30.772 ms

Loss rate: 11.12%

-- Flow 1:

Average throughput: 52.06 Mbit/s

95th percentile per-packet one-way delay: 29.733 ms

Loss rate: 9.91%

-- Flow 2:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 31.361 ms

Loss rate: 12.53%

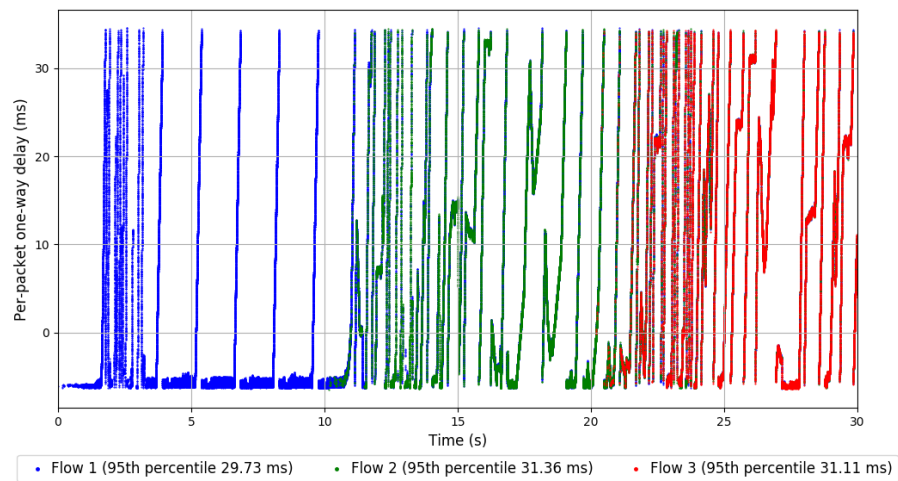
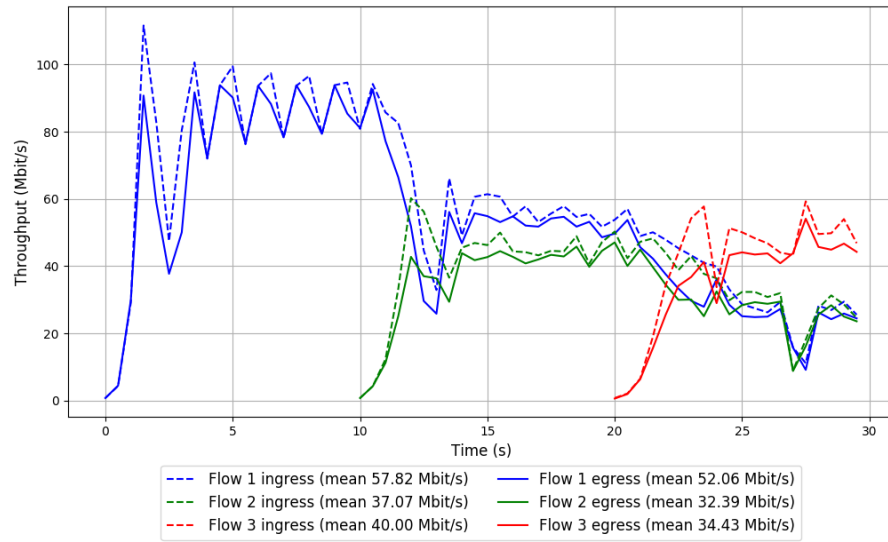
-- Flow 3:

Average throughput: 34.43 Mbit/s

95th percentile per-packet one-way delay: 31.112 ms

Loss rate: 13.78%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-05 02:51:18

End at: 2018-02-05 02:51:48

Local clock offset: 3.298 ms

Remote clock offset: 3.222 ms

Below is generated by plot.py at 2018-02-05 03:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 29.663 ms

Loss rate: 10.01%

-- Flow 1:

Average throughput: 56.39 Mbit/s

95th percentile per-packet one-way delay: 29.045 ms

Loss rate: 8.89%

-- Flow 2:

Average throughput: 33.35 Mbit/s

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

Loss rate: 11.86%

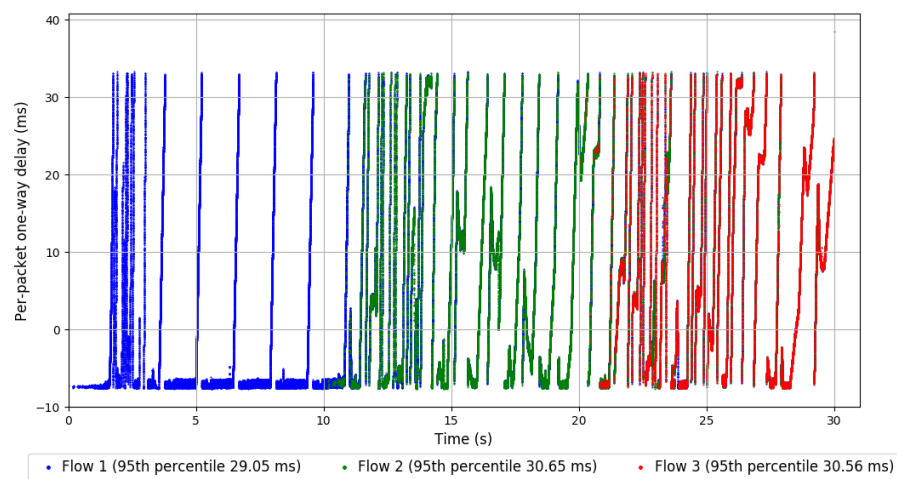
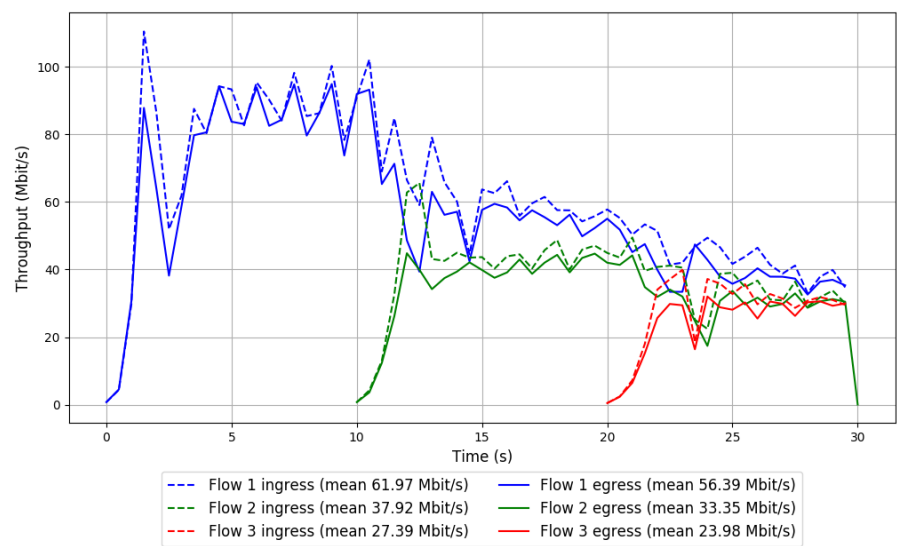
-- Flow 3:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 30.559 ms

Loss rate: 12.42%

Run 10: Report of TCP BBR — Data Link

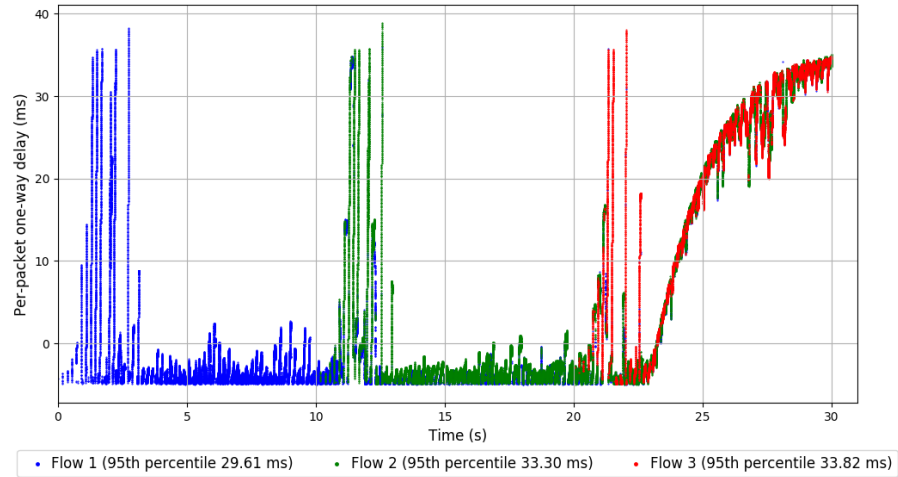
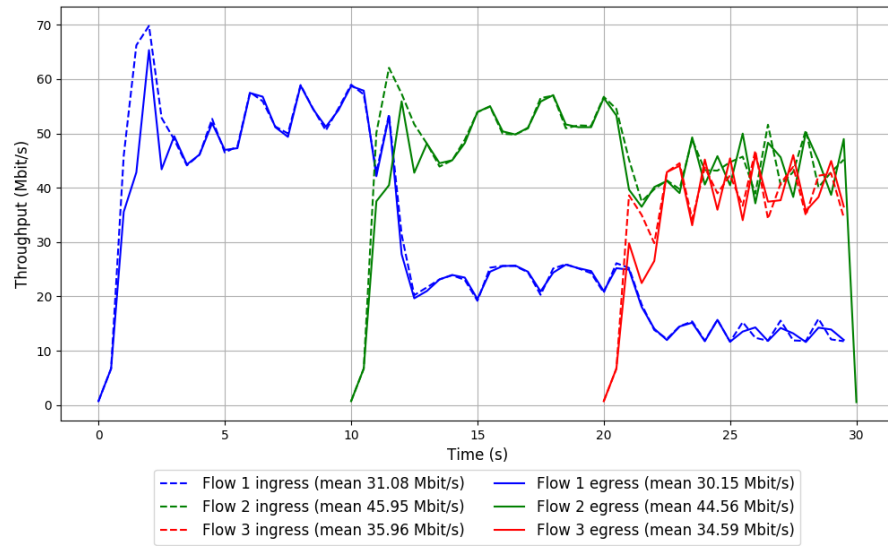


Run 1: Statistics of TCP Cubic

Start at: 2018-02-04 23:06:19
End at: 2018-02-04 23:06:49
Local clock offset: -0.813 ms
Remote clock offset: 11.908 ms

Below is generated by plot.py at 2018-02-05 03:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.33 Mbit/s
95th percentile per-packet one-way delay: 33.120 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 29.606 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 33.304 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 33.817 ms
Loss rate: 3.45%

Run 1: Report of TCP Cubic — Data Link

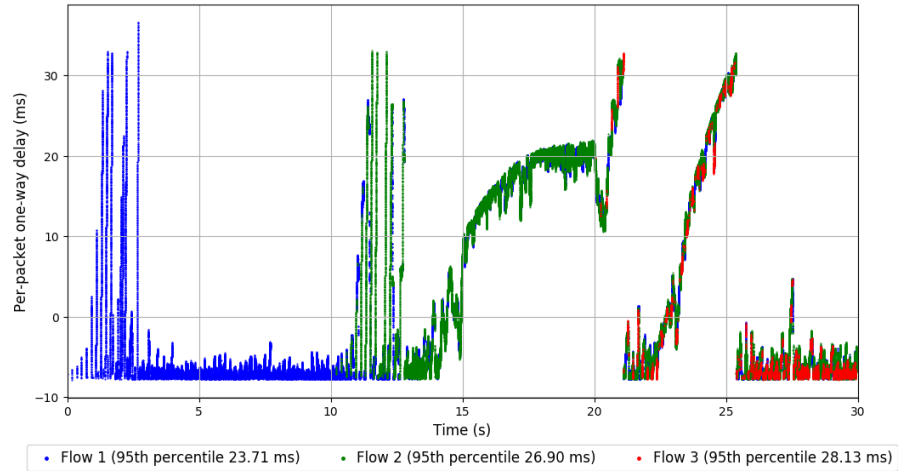
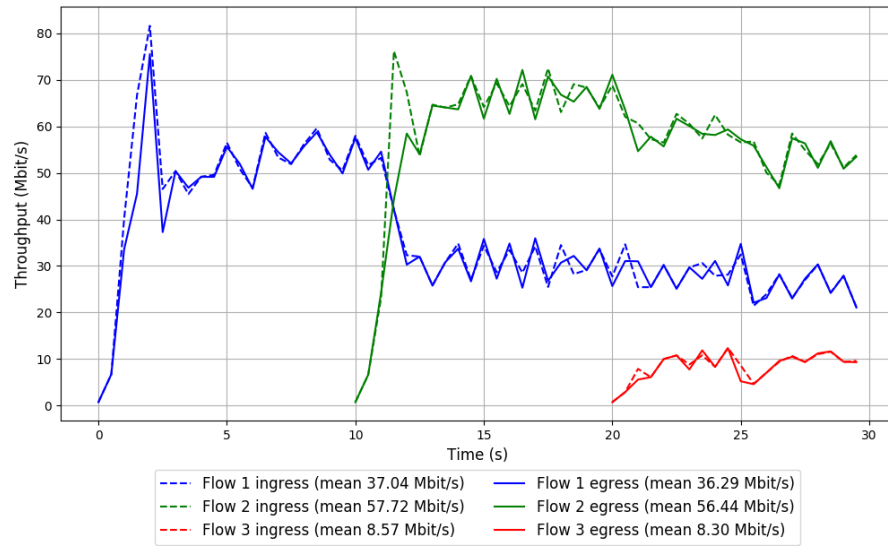


Run 2: Statistics of TCP Cubic

Start at: 2018-02-04 23:31:16
End at: 2018-02-04 23:31:46
Local clock offset: 0.228 ms
Remote clock offset: 12.632 ms

Below is generated by plot.py at 2018-02-05 03:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 26.093 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 23.708 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 26.897 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 28.130 ms
Loss rate: 3.42%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-04 23:55:54

End at: 2018-02-04 23:56:24

Local clock offset: 3.186 ms

Remote clock offset: 9.948 ms

Below is generated by plot.py at 2018-02-05 03:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.34 Mbit/s

95th percentile per-packet one-way delay: 27.544 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 25.022 ms

Loss rate: 2.10%

-- Flow 2:

Average throughput: 40.03 Mbit/s

95th percentile per-packet one-way delay: 28.662 ms

Loss rate: 1.09%

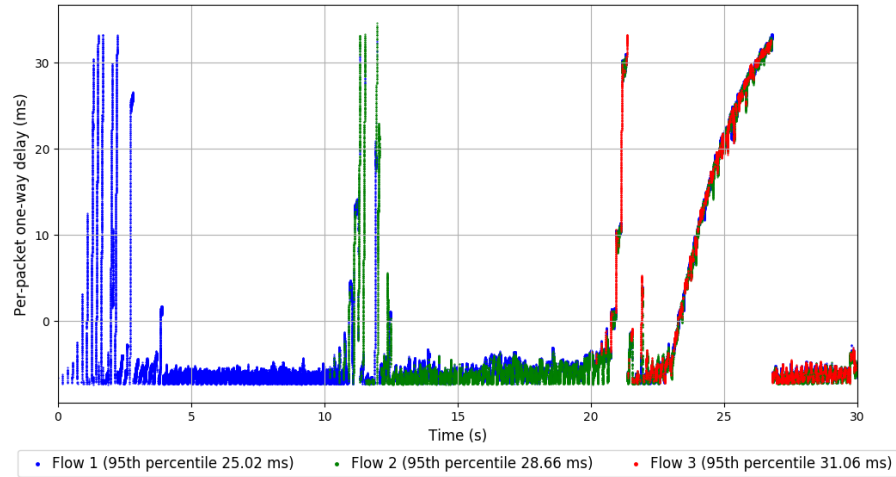
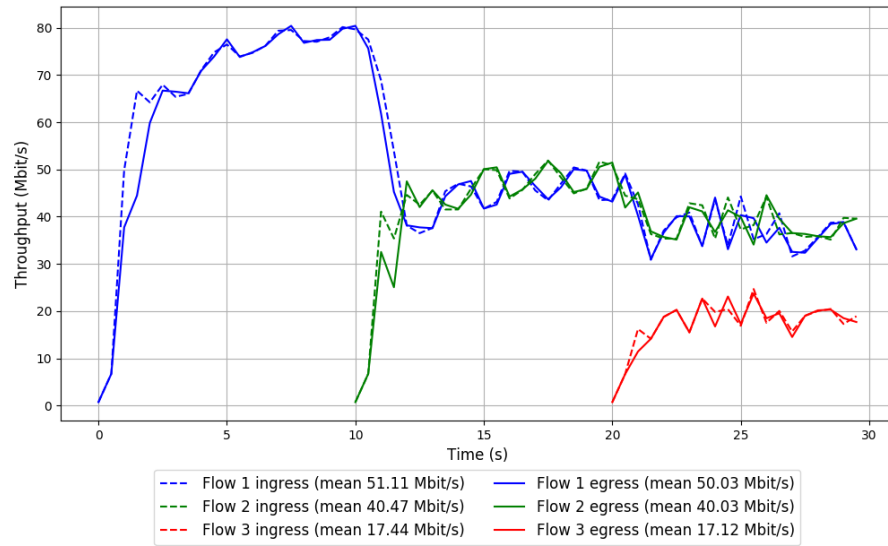
-- Flow 3:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 31.064 ms

Loss rate: 1.86%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-05 00:20:22

End at: 2018-02-05 00:20:52

Local clock offset: 1.309 ms

Remote clock offset: 4.986 ms

Below is generated by plot.py at 2018-02-05 03:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.64 Mbit/s

95th percentile per-packet one-way delay: 30.853 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 30.682 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 31.912 ms

Loss rate: 2.31%

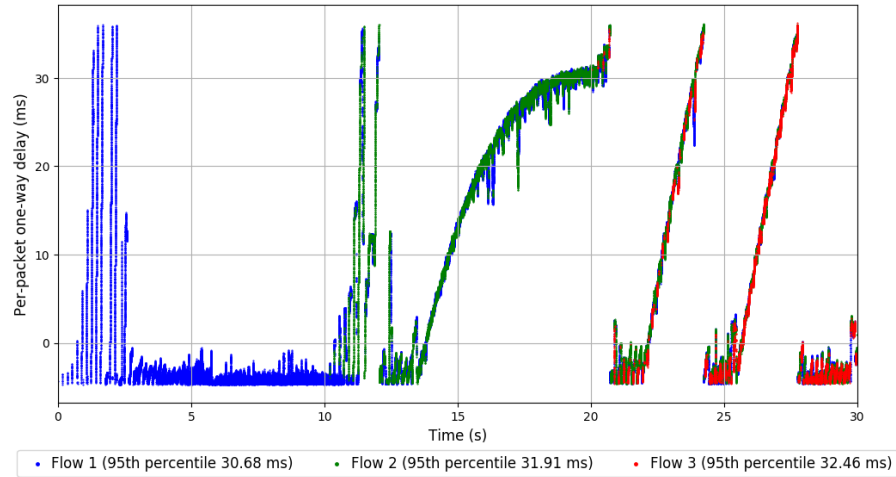
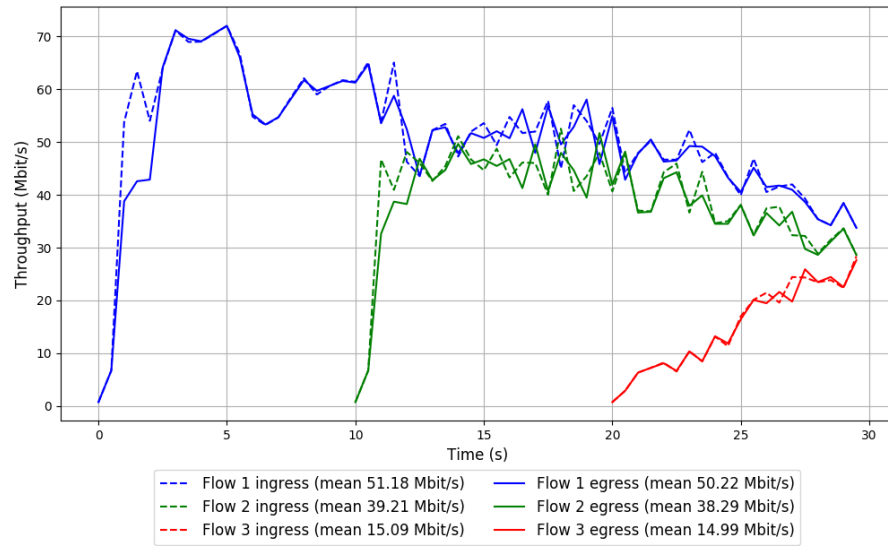
-- Flow 3:

Average throughput: 14.99 Mbit/s

95th percentile per-packet one-way delay: 32.457 ms

Loss rate: 1.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-05 00:45:44

End at: 2018-02-05 00:46:14

Local clock offset: 0.939 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-02-05 03:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 24.665 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 22.334 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 25.735 ms

Loss rate: 1.83%

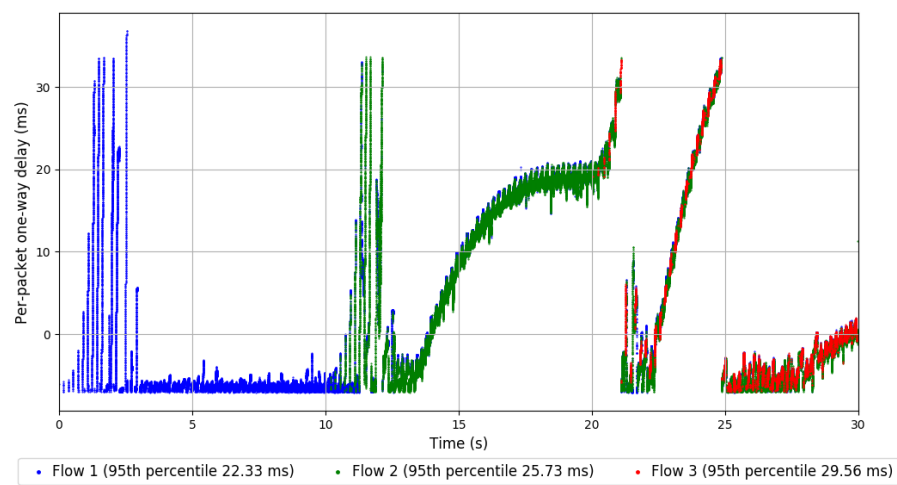
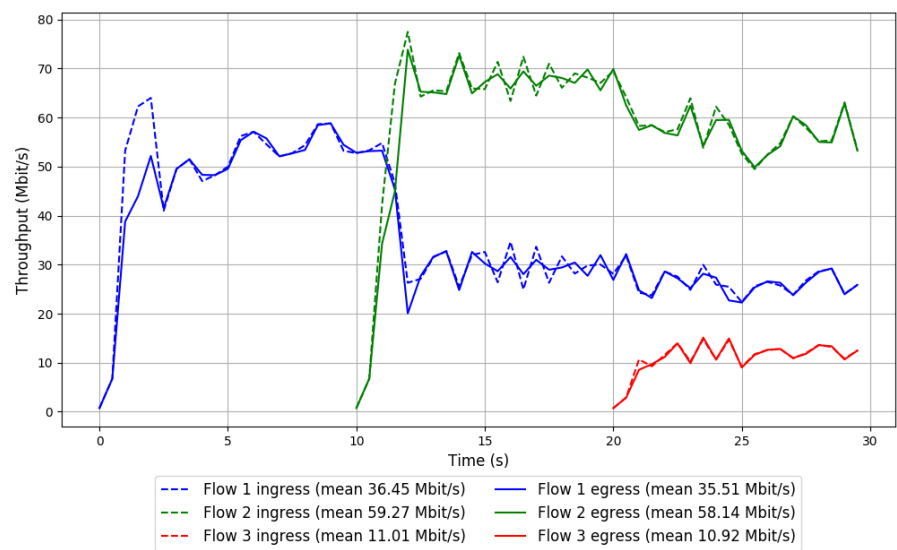
-- Flow 3:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 29.559 ms

Loss rate: 0.99%

Run 5: Report of TCP Cubic — Data Link

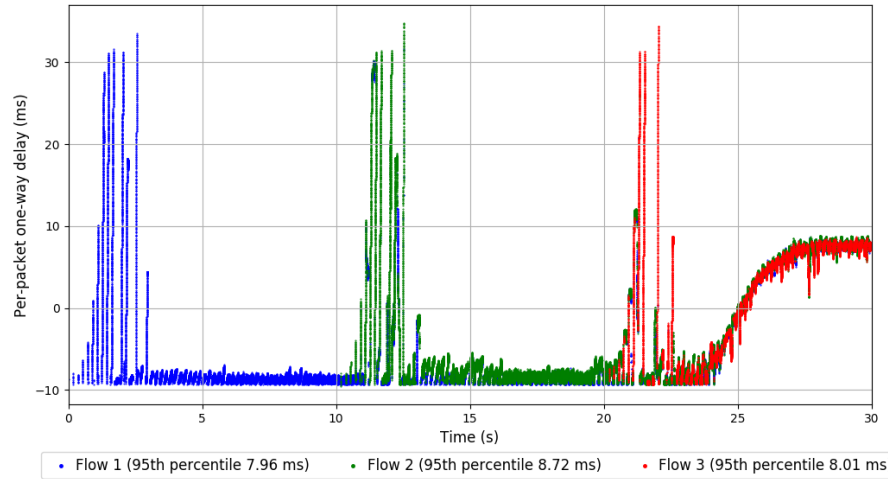
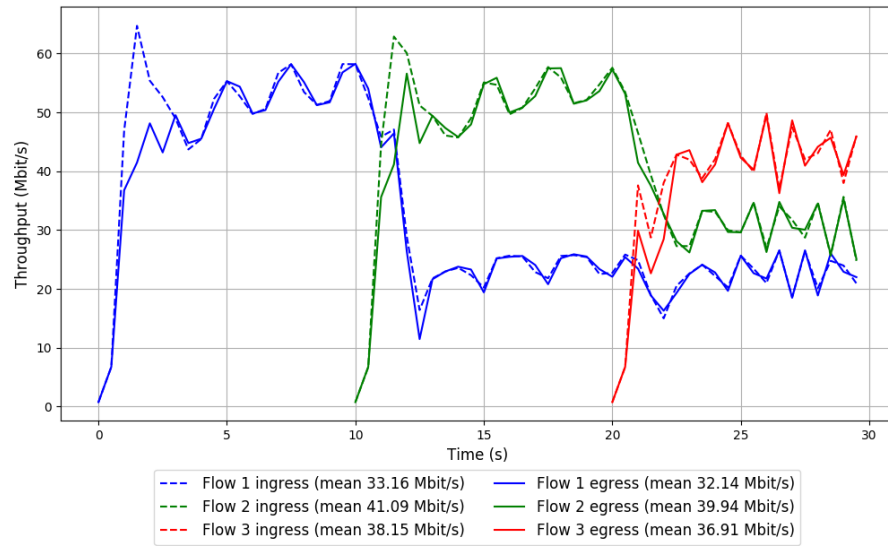


Run 6: Statistics of TCP Cubic

Start at: 2018-02-05 01:10:46
End at: 2018-02-05 01:11:16
Local clock offset: 1.998 ms
Remote clock offset: -0.774 ms

Below is generated by plot.py at 2018-02-05 03:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.91 Mbit/s
95th percentile per-packet one-way delay: 8.372 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 7.962 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 8.725 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 8.013 ms
Loss rate: 3.10%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-05 01:35:07

End at: 2018-02-05 01:35:37

Local clock offset: -0.05 ms

Remote clock offset: 3.483 ms

Below is generated by plot.py at 2018-02-05 03:23:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.49 Mbit/s

95th percentile per-packet one-way delay: 20.980 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 49.05 Mbit/s

95th percentile per-packet one-way delay: 16.898 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 21.860 ms

Loss rate: 1.94%

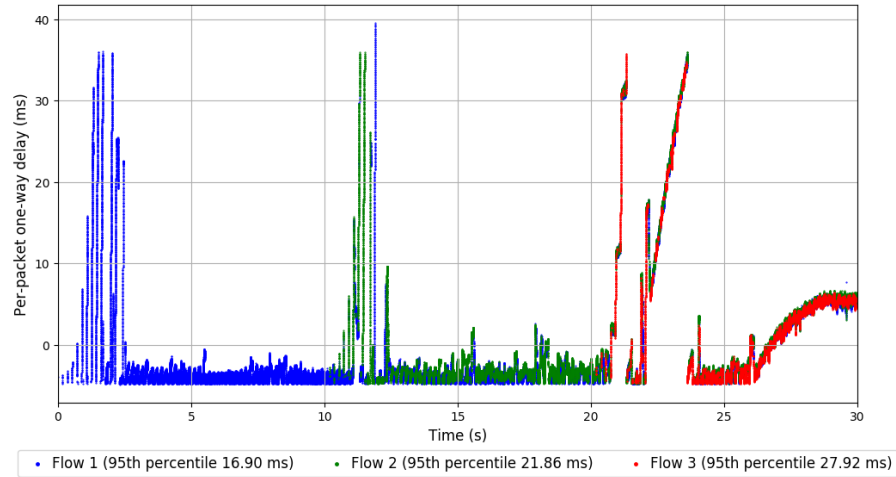
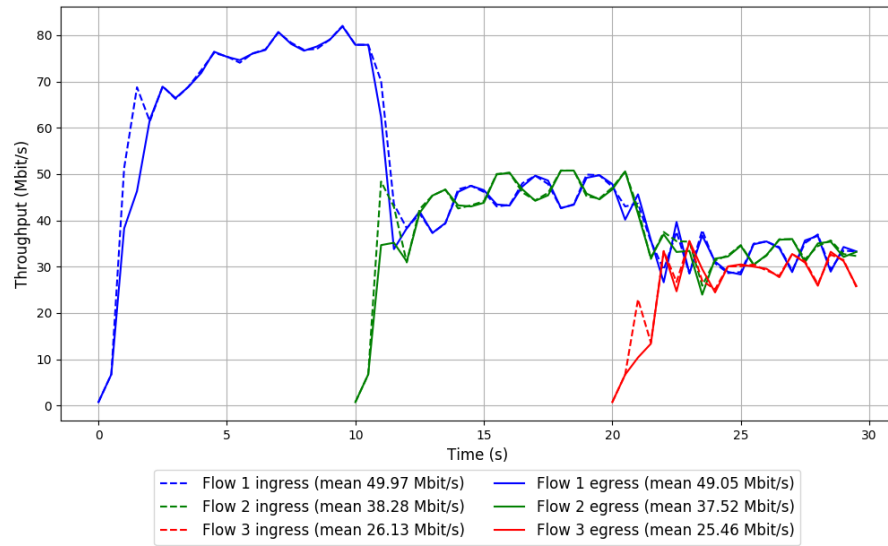
-- Flow 3:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 27.923 ms

Loss rate: 2.50%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-05 01:59:58

End at: 2018-02-05 02:00:28

Local clock offset: 0.637 ms

Remote clock offset: 2.962 ms

Below is generated by plot.py at 2018-02-05 03:23:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 29.227 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 26.066 ms

Loss rate: 2.76%

-- Flow 2:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 30.017 ms

Loss rate: 2.10%

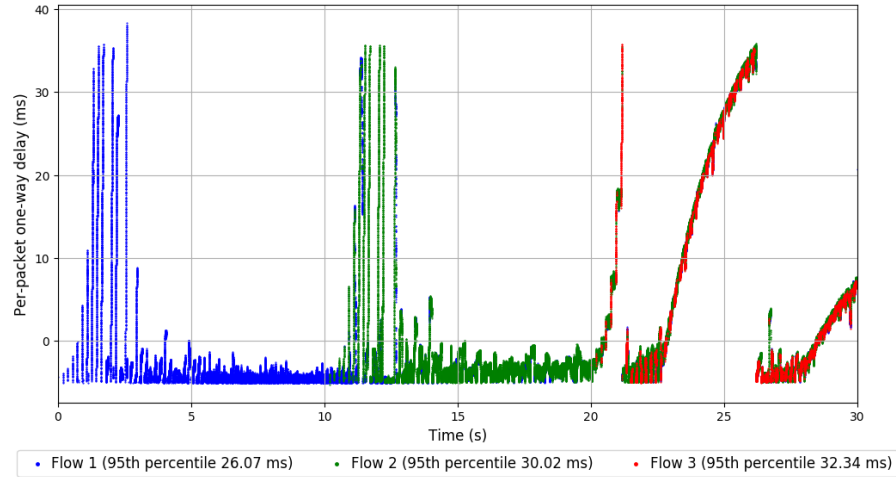
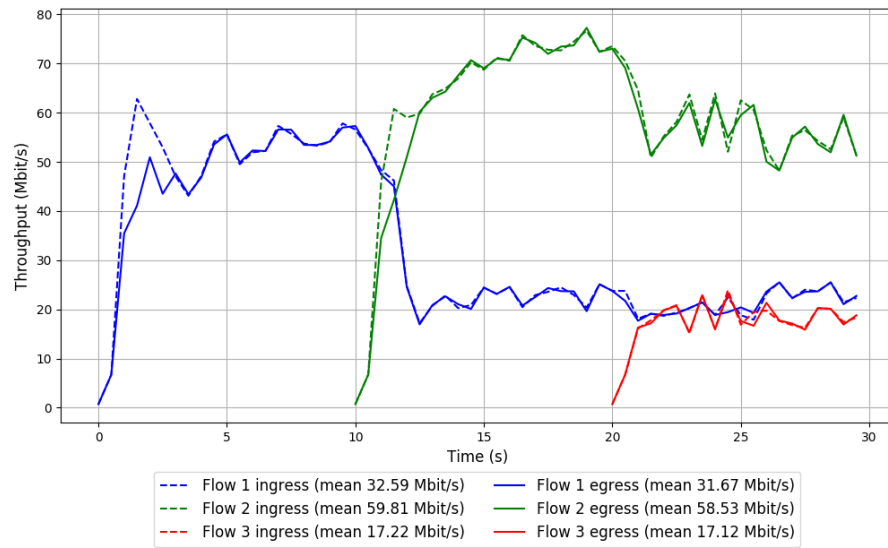
-- Flow 3:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 32.336 ms

Loss rate: 0.48%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-05 02:25:10

End at: 2018-02-05 02:25:40

Local clock offset: 3.633 ms

Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.01 Mbit/s

95th percentile per-packet one-way delay: 25.201 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 25.528 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 23.595 ms

Loss rate: 1.93%

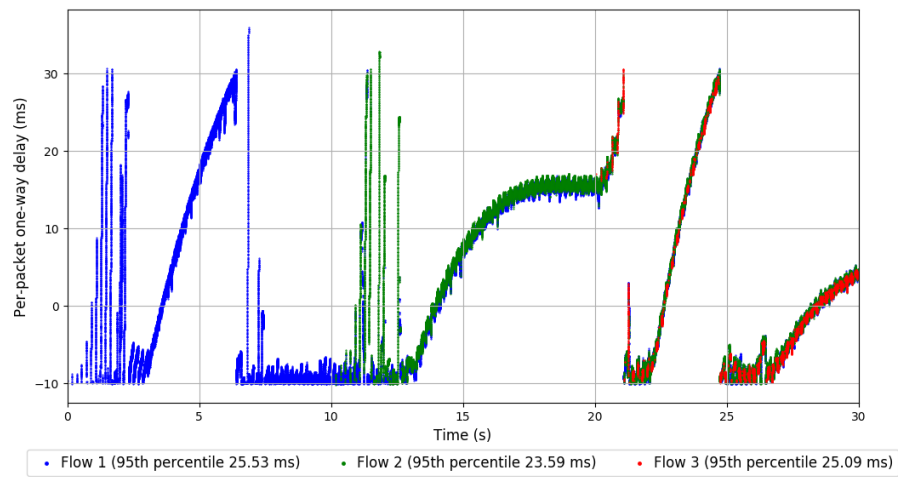
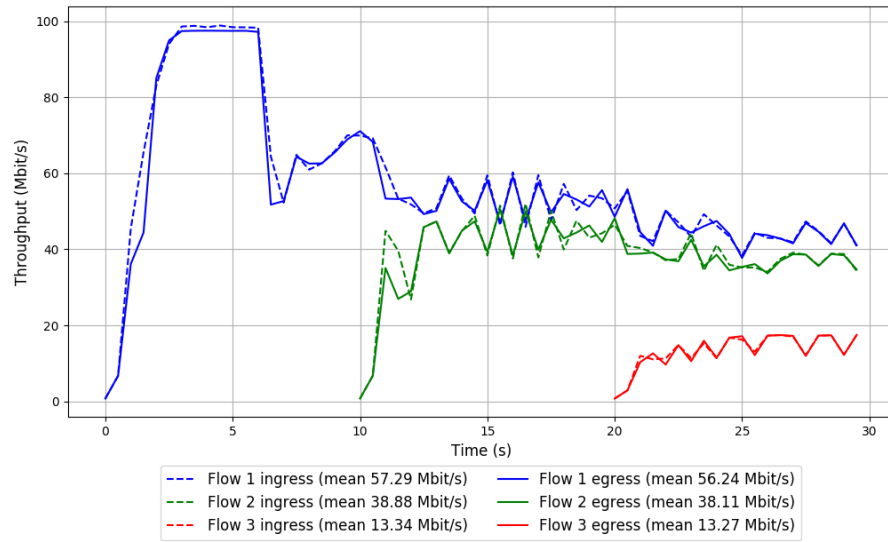
-- Flow 3:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 25.089 ms

Loss rate: 0.64%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-05 02:49:56

End at: 2018-02-05 02:50:26

Local clock offset: 2.702 ms

Remote clock offset: 4.494 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.00 Mbit/s

95th percentile per-packet one-way delay: 27.561 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 23.583 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 40.34 Mbit/s

95th percentile per-packet one-way delay: 29.169 ms

Loss rate: 1.61%

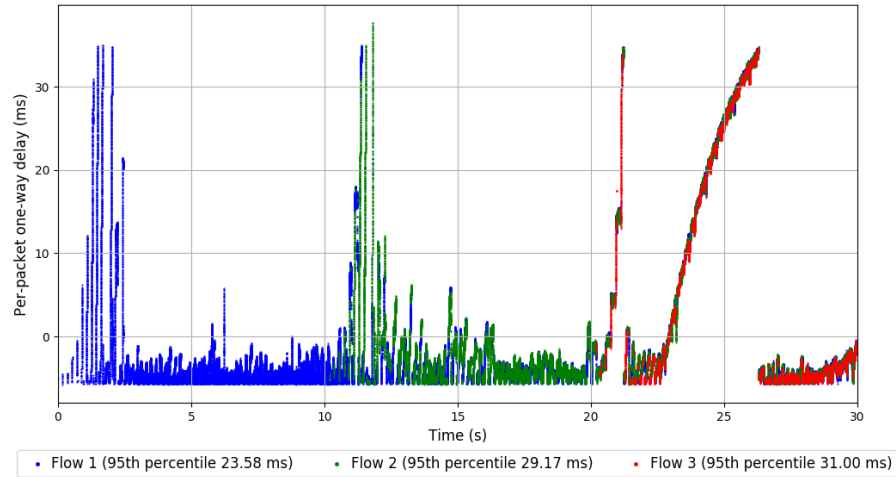
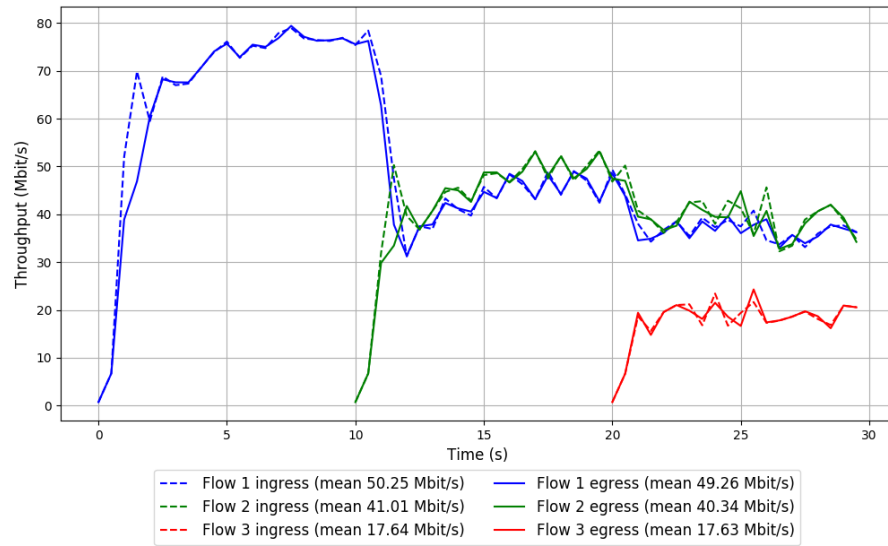
-- Flow 3:

Average throughput: 17.63 Mbit/s

95th percentile per-packet one-way delay: 30.999 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link

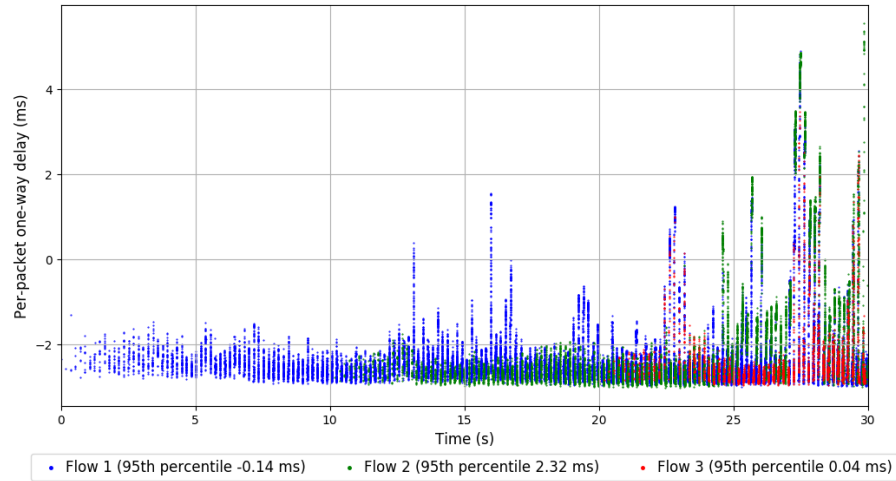
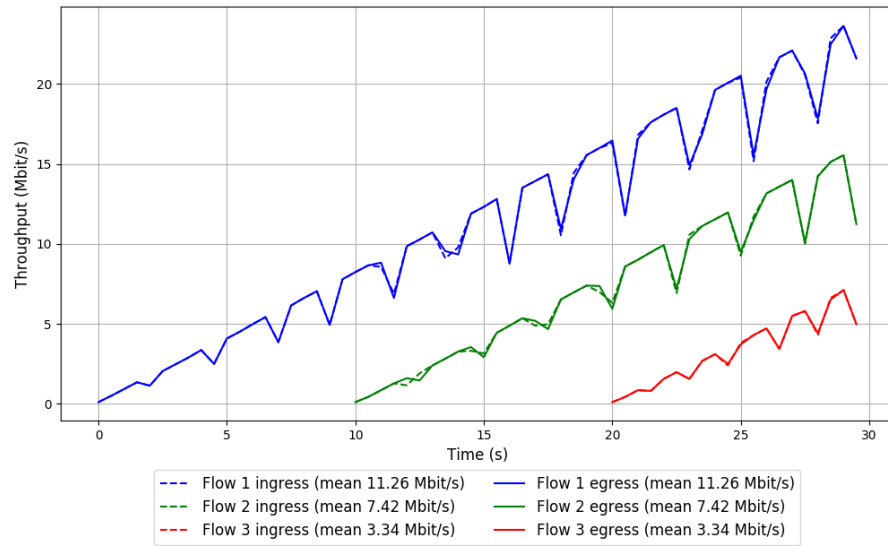


Run 1: Statistics of LEDBAT

Start at: 2018-02-04 22:52:35
End at: 2018-02-04 22:53:05
Local clock offset: -0.976 ms
Remote clock offset: 11.346 ms

Below is generated by plot.py at 2018-02-05 03:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.30 Mbit/s
95th percentile per-packet one-way delay: 0.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: -0.138 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 2.323 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 0.040 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

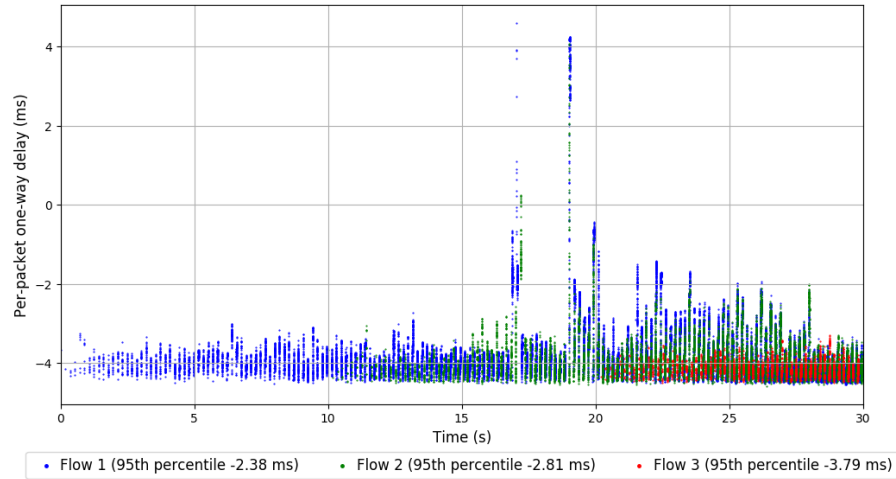
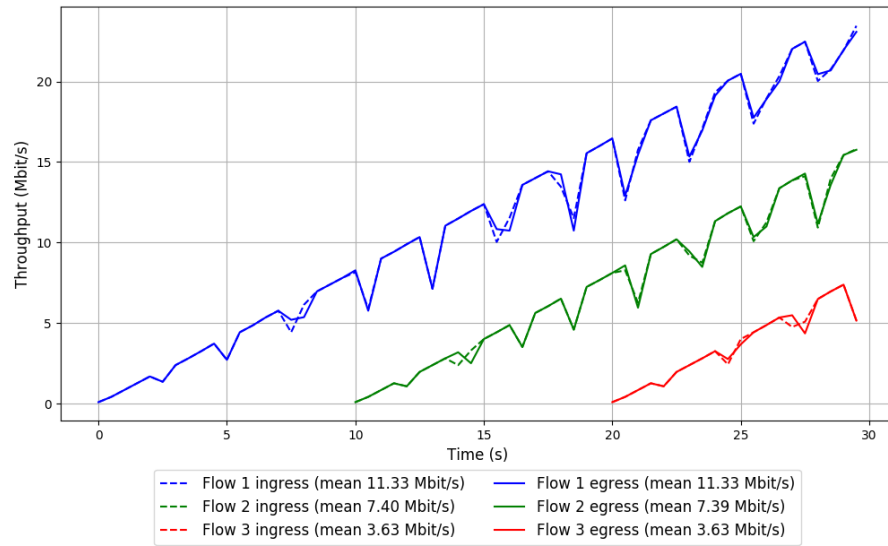


Run 2: Statistics of LEDBAT

Start at: 2018-02-04 23:17:31
End at: 2018-02-04 23:18:01
Local clock offset: -0.868 ms
Remote clock offset: 13.886 ms

Below is generated by plot.py at 2018-02-05 03:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.44 Mbit/s
95th percentile per-packet one-way delay: -2.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: -2.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: -2.808 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: -3.793 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

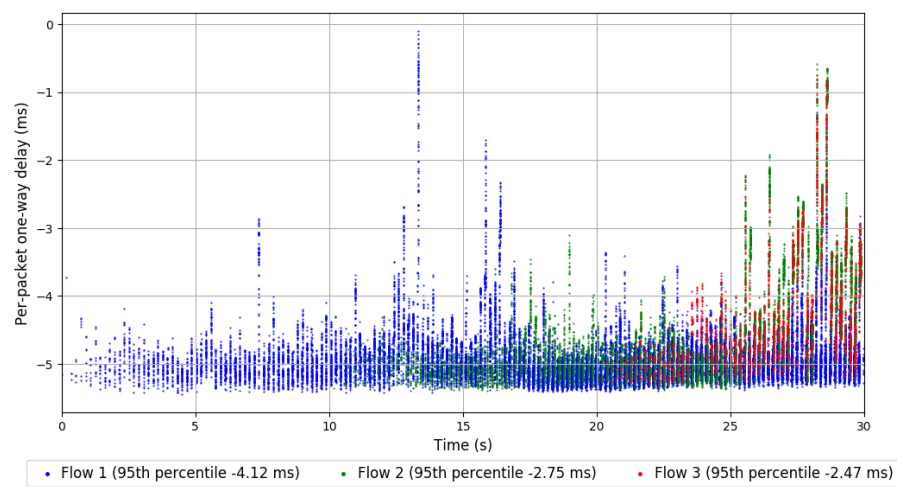
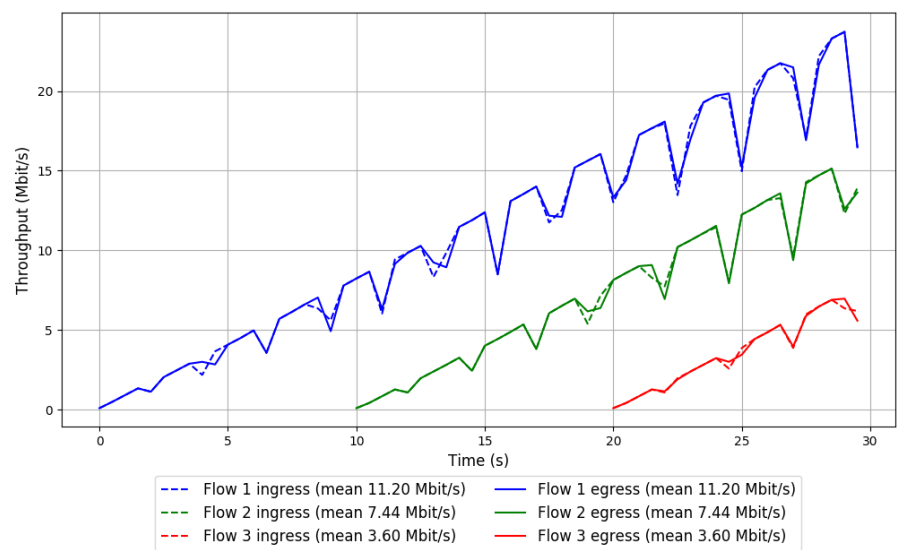


Run 3: Statistics of LEDBAT

Start at: 2018-02-04 23:42:17
End at: 2018-02-04 23:42:47
Local clock offset: -2.851 ms
Remote clock offset: 9.258 ms

Below is generated by plot.py at 2018-02-05 03:23:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.32 Mbit/s
95th percentile per-packet one-way delay: -3.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: -4.117 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: -2.754 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: -2.471 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-05 00:06:40

End at: 2018-02-05 00:07:10

Local clock offset: 3.135 ms

Remote clock offset: 6.339 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.34 Mbit/s

95th percentile per-packet one-way delay: -7.627 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.22 Mbit/s

95th percentile per-packet one-way delay: -7.276 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: -8.075 ms

Loss rate: 0.00%

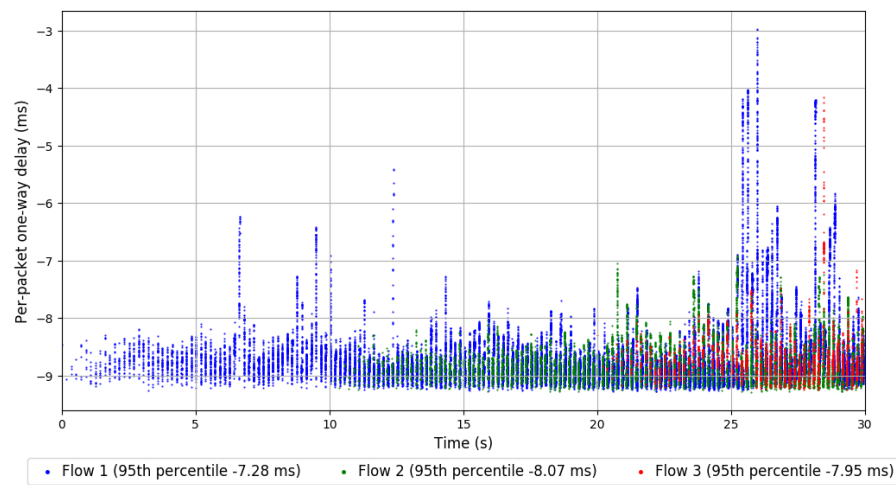
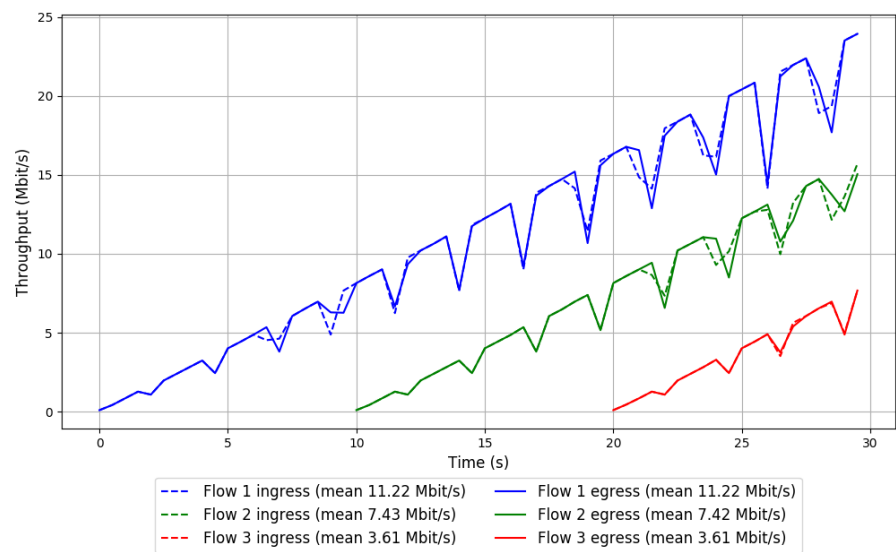
-- Flow 3:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: -7.949 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-05 00:31:47

End at: 2018-02-05 00:32:17

Local clock offset: 0.294 ms

Remote clock offset: 3.97 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.54 Mbit/s

95th percentile per-packet one-way delay: -2.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: -2.557 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: -2.434 ms

Loss rate: 0.00%

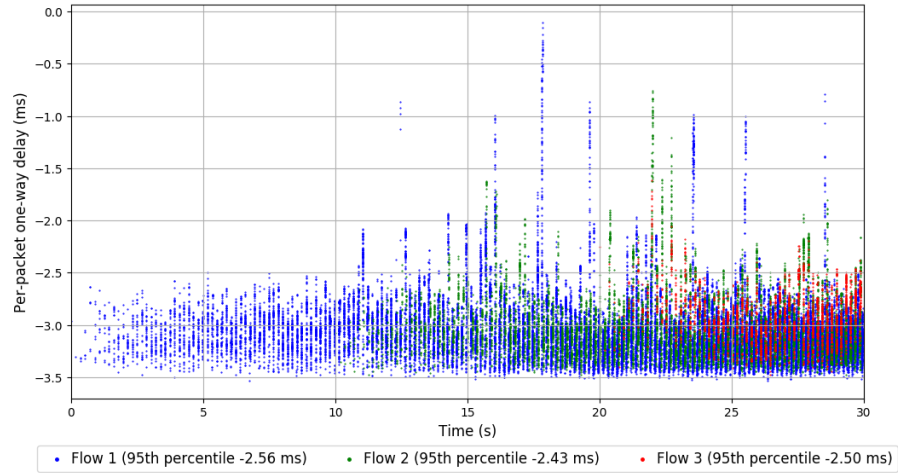
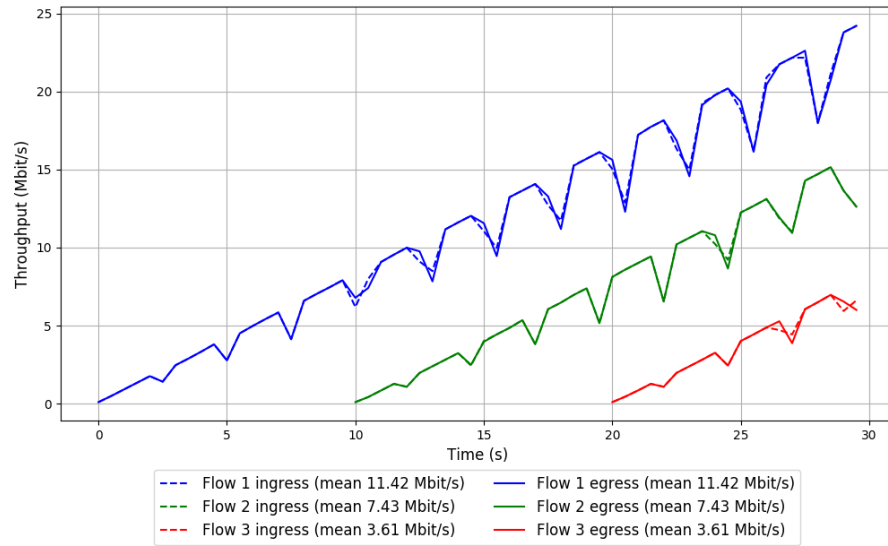
-- Flow 3:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: -2.505 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-05 00:56:59

End at: 2018-02-05 00:57:29

Local clock offset: 3.847 ms

Remote clock offset: 3.005 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.18 Mbit/s

95th percentile per-packet one-way delay: -5.161 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: -5.550 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: -4.632 ms

Loss rate: 0.01%

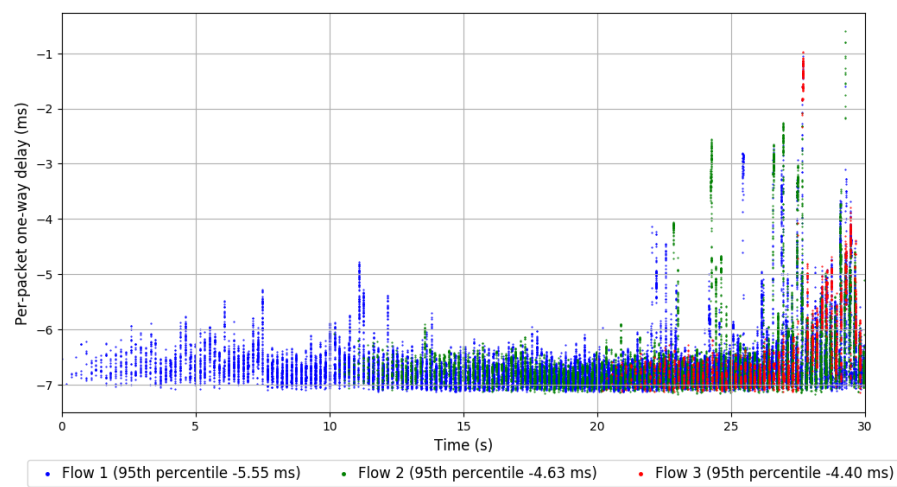
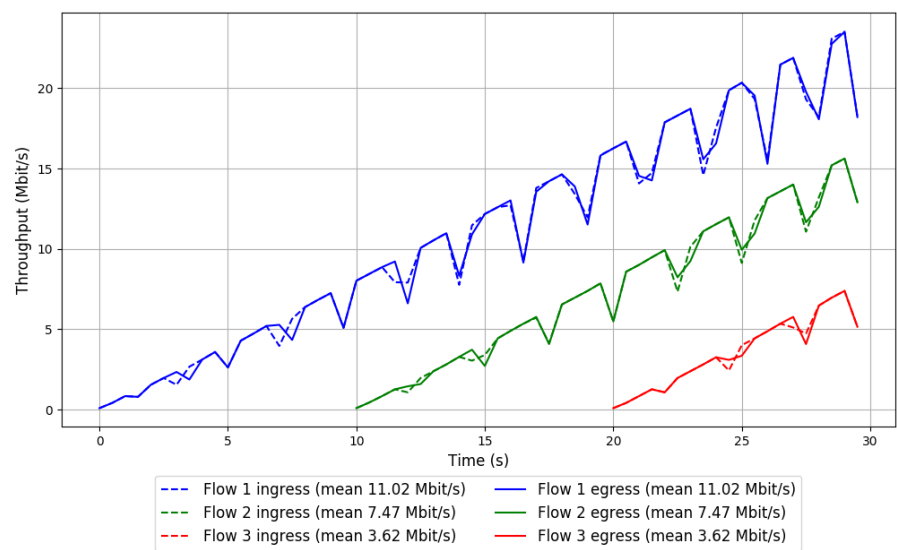
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: -4.397 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-05 01:21:33

End at: 2018-02-05 01:22:03

Local clock offset: 1.906 ms

Remote clock offset: 2.125 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.59 Mbit/s

95th percentile per-packet one-way delay: -4.869 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: -4.785 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: -5.321 ms

Loss rate: 0.00%

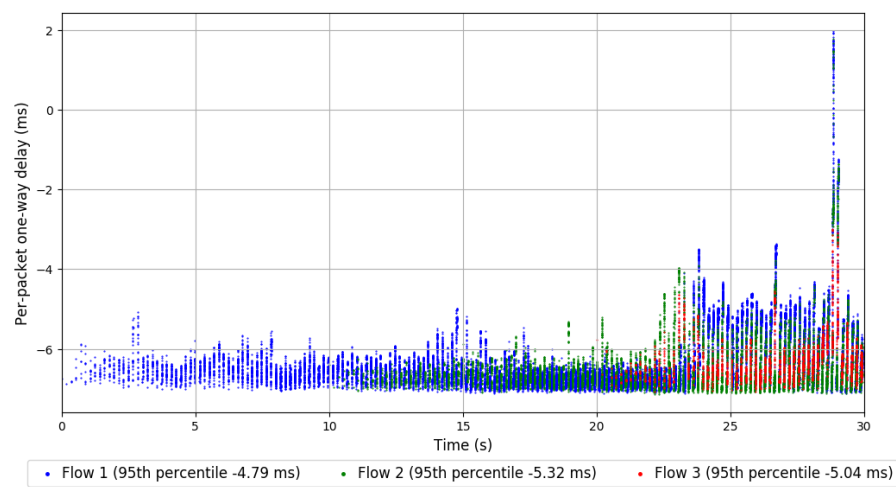
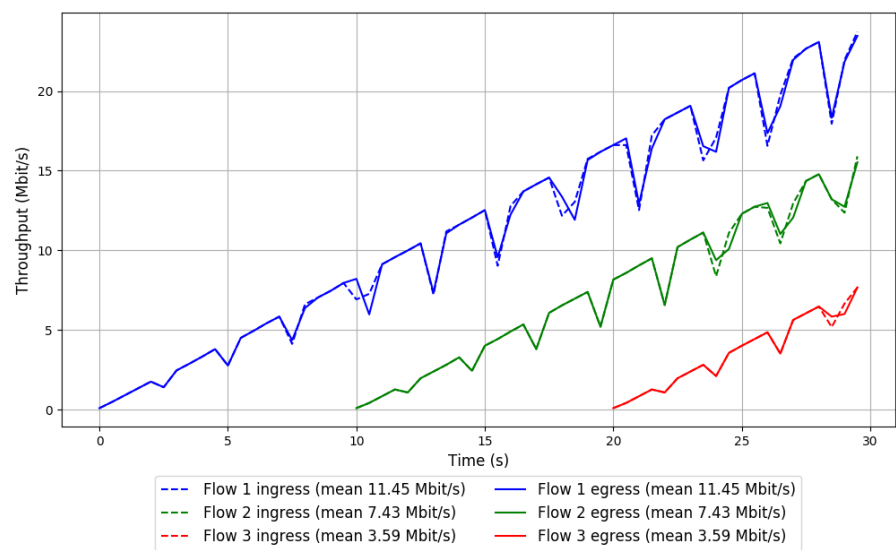
-- Flow 3:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: -5.040 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-05 01:46:13

End at: 2018-02-05 01:46:43

Local clock offset: 1.469 ms

Remote clock offset: 2.925 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.43 Mbit/s

95th percentile per-packet one-way delay: -4.496 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: -4.736 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.43 Mbit/s

95th percentile per-packet one-way delay: -4.337 ms

Loss rate: 0.00%

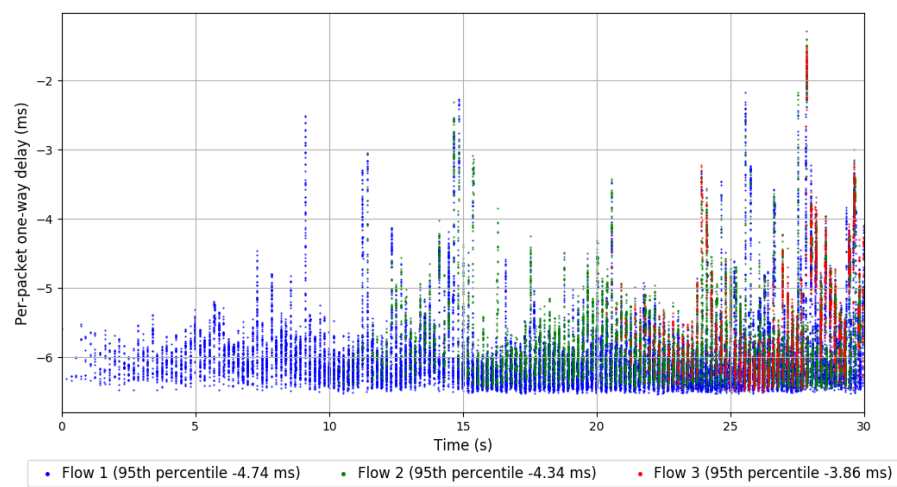
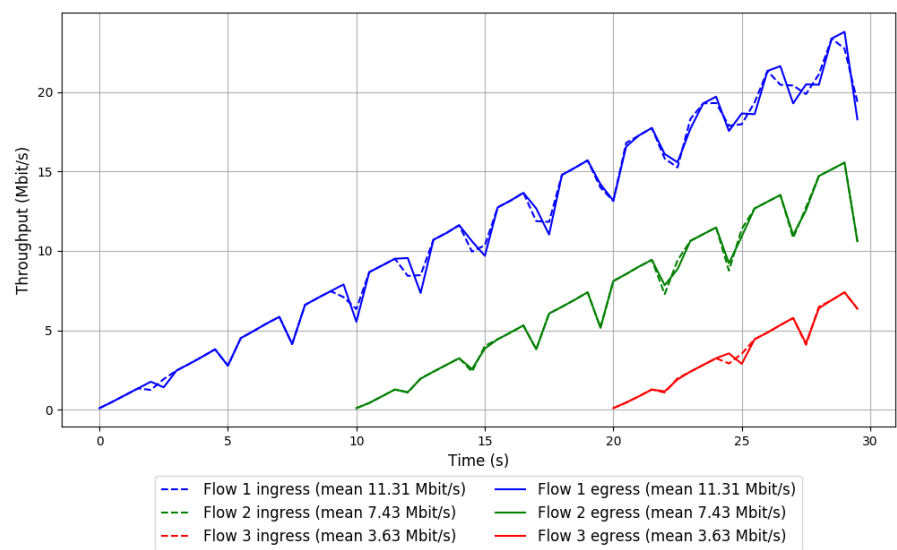
-- Flow 3:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: -3.859 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-05 02:11:29

End at: 2018-02-05 02:11:59

Local clock offset: 2.555 ms

Remote clock offset: 1.027 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: -6.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: -6.667 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: -7.258 ms

Loss rate: 0.00%

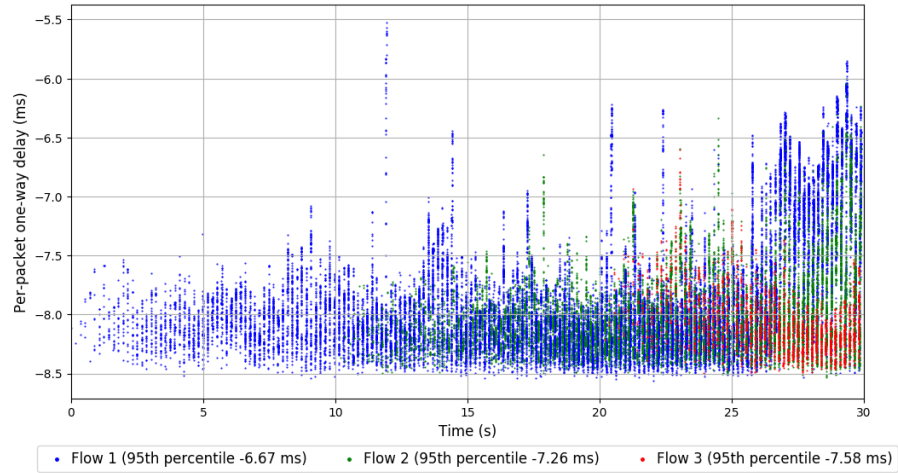
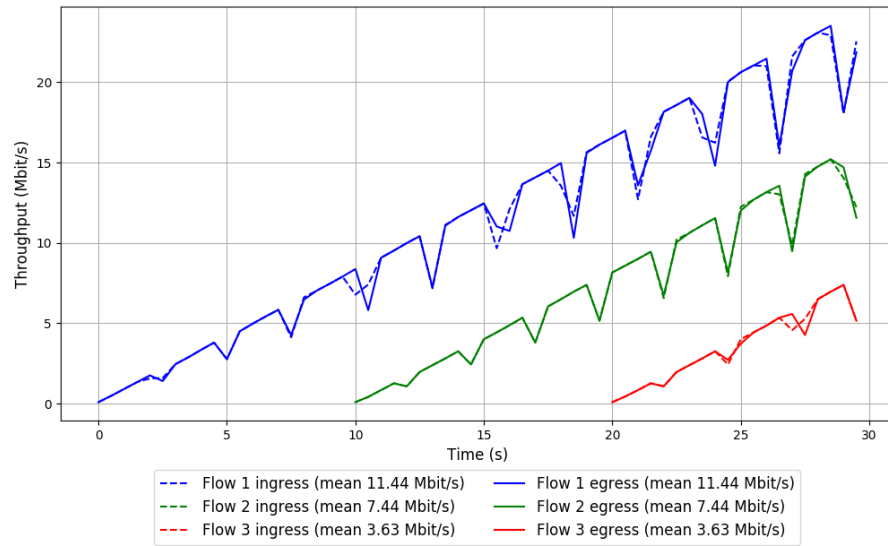
-- Flow 3:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: -7.577 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-05 02:35:59

End at: 2018-02-05 02:36:29

Local clock offset: -0.61 ms

Remote clock offset: 2.728 ms

Below is generated by plot.py at 2018-02-05 03:23:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.29 Mbit/s

95th percentile per-packet one-way delay: -2.915 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.18 Mbit/s

95th percentile per-packet one-way delay: -3.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: -2.637 ms

Loss rate: 0.00%

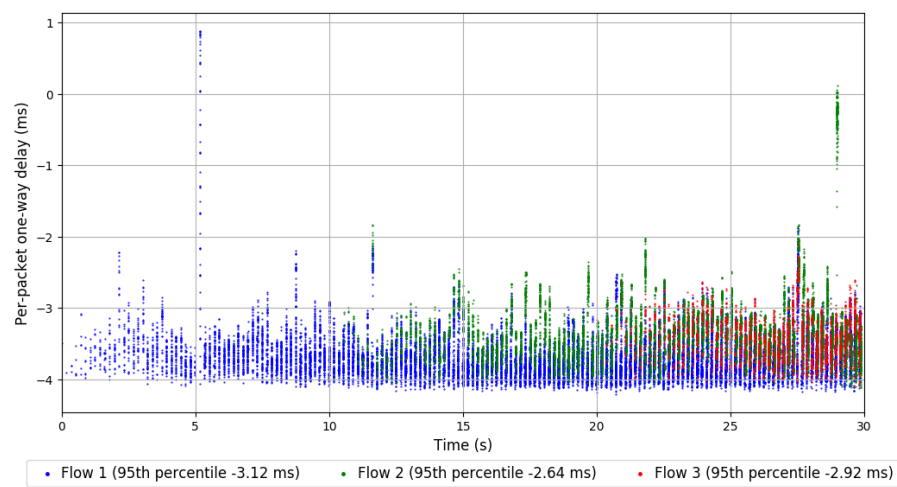
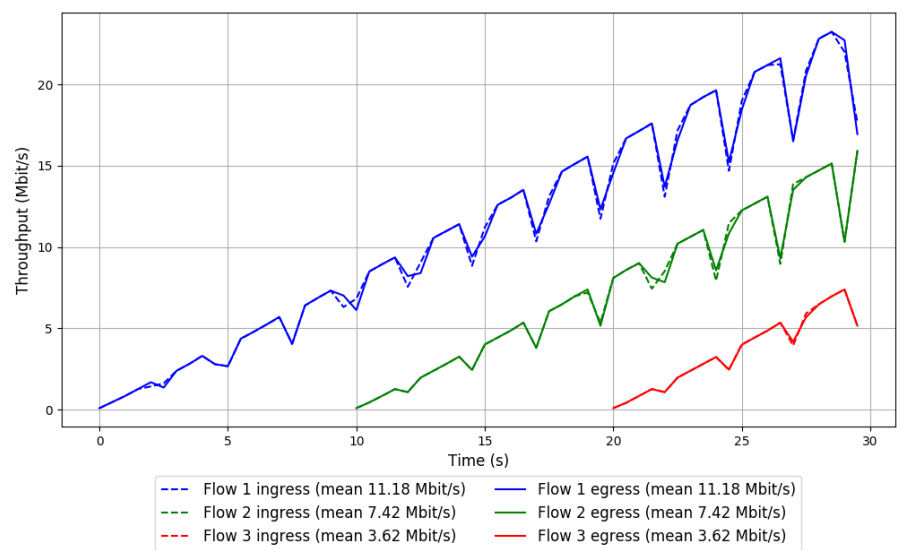
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: -2.918 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

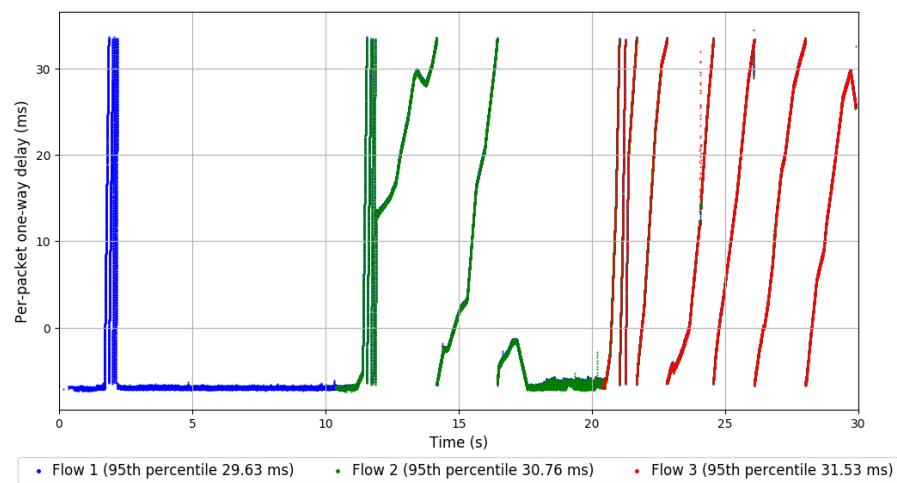
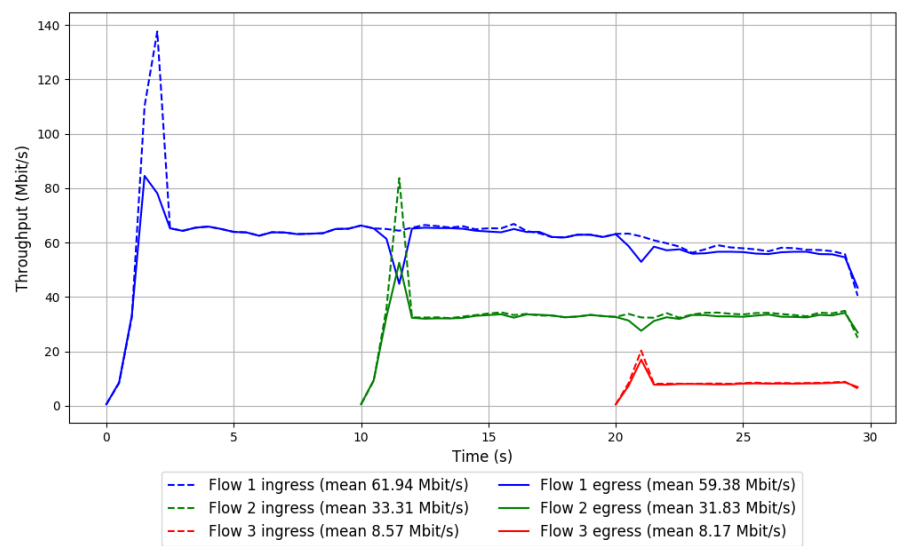


```
Run 1: Statistics of PCC

Start at: 2018-02-04 22:59:26
End at: 2018-02-04 22:59:56
Local clock offset: 1.15 ms
Remote clock offset: 10.529 ms

# Below is generated by plot.py at 2018-02-05 03:24:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.24 Mbit/s
95th percentile per-packet one-way delay: 30.060 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 59.38 Mbit/s
95th percentile per-packet one-way delay: 29.629 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 30.759 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 4.25%
```

Run 1: Report of PCC — Data Link

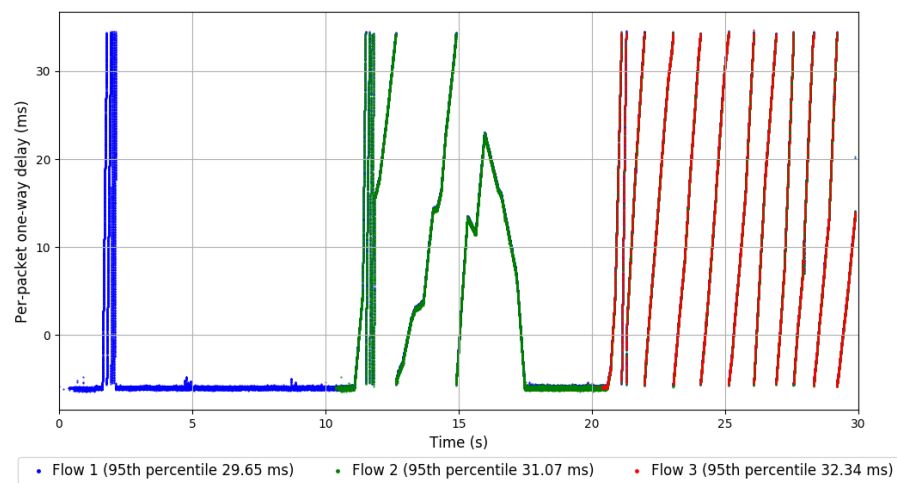
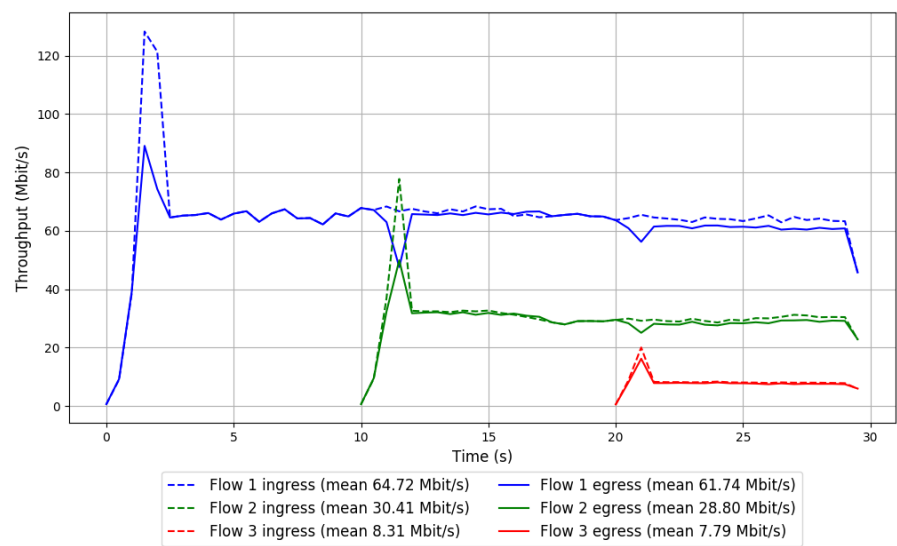


Run 2: Statistics of PCC

Start at: 2018-02-04 23:24:25
End at: 2018-02-04 23:24:55
Local clock offset: -0.834 ms
Remote clock offset: 12.461 ms

Below is generated by plot.py at 2018-02-05 03:24:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.47 Mbit/s
95th percentile per-packet one-way delay: 30.243 ms
Loss rate: 4.72%
-- Flow 1:
Average throughput: 61.74 Mbit/s
95th percentile per-packet one-way delay: 29.651 ms
Loss rate: 4.52%
-- Flow 2:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 31.065 ms
Loss rate: 5.17%
-- Flow 3:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 32.344 ms
Loss rate: 6.13%

Run 2: Report of PCC — Data Link

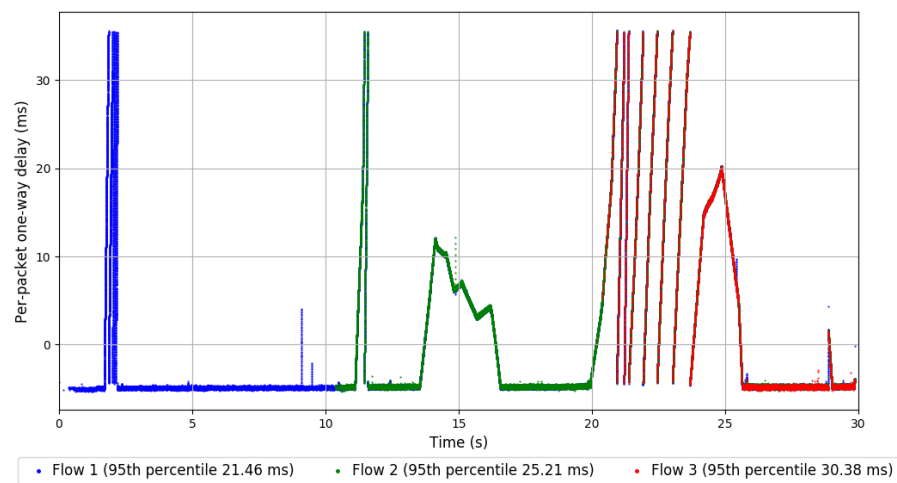
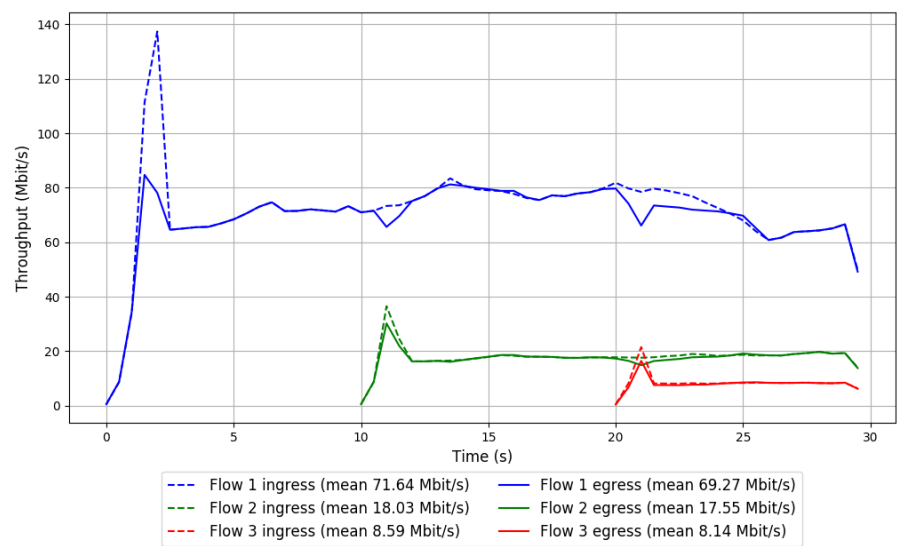


Run 3: Statistics of PCC

Start at: 2018-02-04 23:49:09
End at: 2018-02-04 23:49:39
Local clock offset: -0.627 ms
Remote clock offset: 10.318 ms

Below is generated by plot.py at 2018-02-05 03:24:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 22.817 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 69.27 Mbit/s
95th percentile per-packet one-way delay: 21.457 ms
Loss rate: 3.30%
-- Flow 2:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 25.208 ms
Loss rate: 2.66%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 30.375 ms
Loss rate: 5.36%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-05 00:13:32

End at: 2018-02-05 00:14:02

Local clock offset: 3.789 ms

Remote clock offset: 5.739 ms

Below is generated by plot.py at 2018-02-05 03:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 26.641 ms

Loss rate: 4.03%

-- Flow 1:

Average throughput: 76.79 Mbit/s

95th percentile per-packet one-way delay: 26.133 ms

Loss rate: 3.96%

-- Flow 2:

Average throughput: 8.32 Mbit/s

95th percentile per-packet one-way delay: 27.940 ms

Loss rate: 3.56%

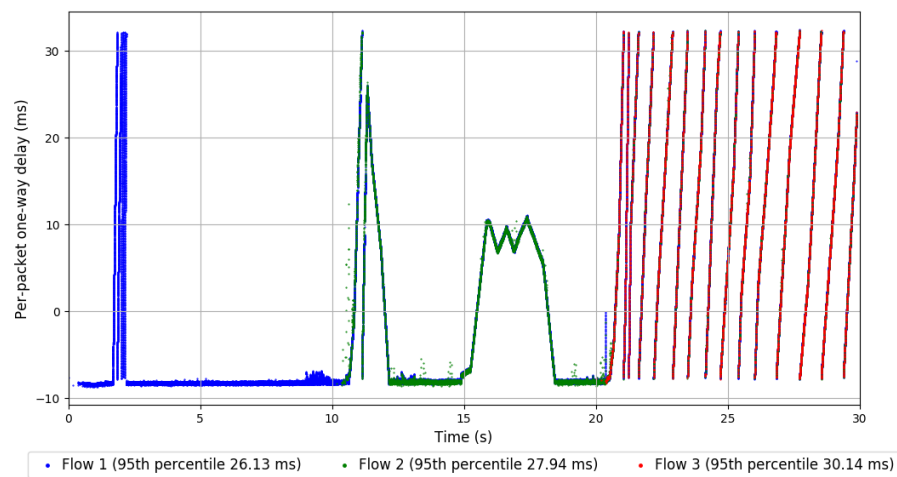
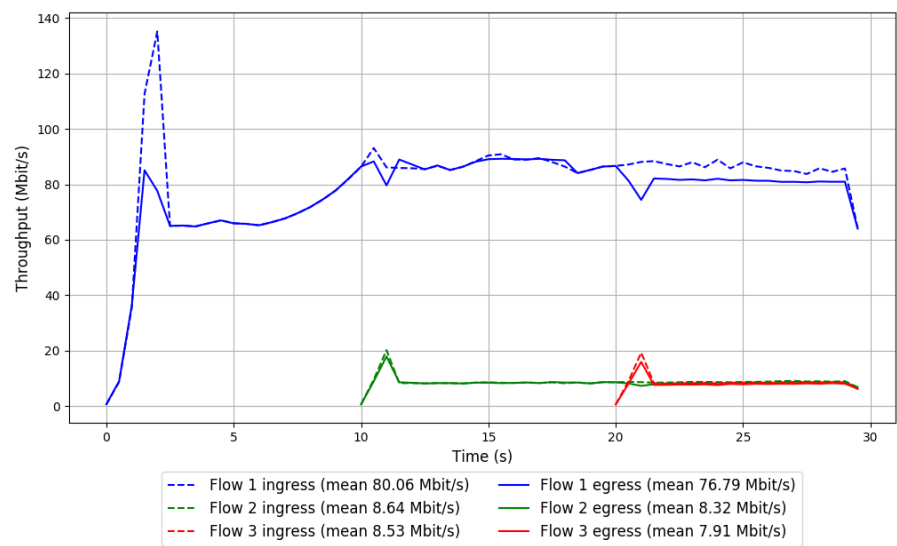
-- Flow 3:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 30.141 ms

Loss rate: 6.99%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-05 00:38:38

End at: 2018-02-05 00:39:08

Local clock offset: 1.896 ms

Remote clock offset: 3.025 ms

Below is generated by plot.py at 2018-02-05 03:25:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 28.725 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 28.242 ms

Loss rate: 3.21%

-- Flow 2:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 30.376 ms

Loss rate: 2.55%

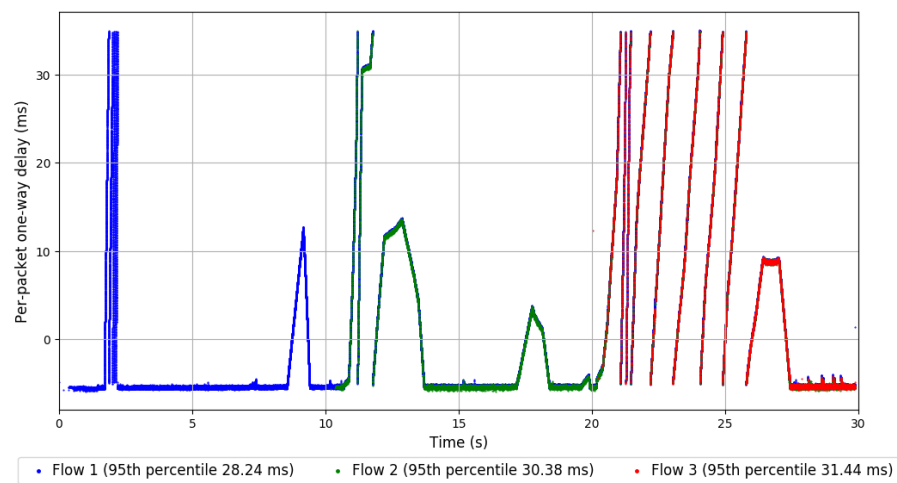
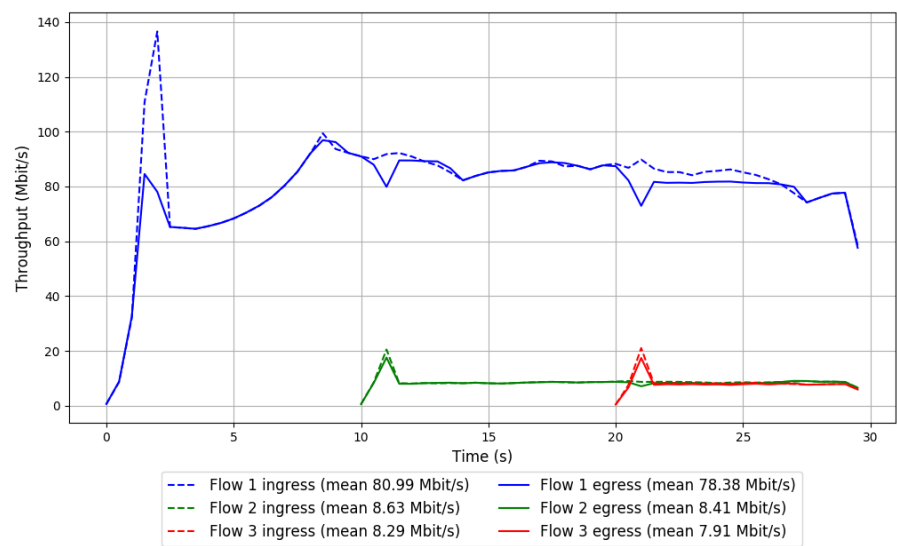
-- Flow 3:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 31.444 ms

Loss rate: 4.75%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-05 01:03:51

End at: 2018-02-05 01:04:21

Local clock offset: 1.091 ms

Remote clock offset: 1.258 ms

Below is generated by plot.py at 2018-02-05 03:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 22.883 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 77.65 Mbit/s

95th percentile per-packet one-way delay: 22.270 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 24.409 ms

Loss rate: 1.53%

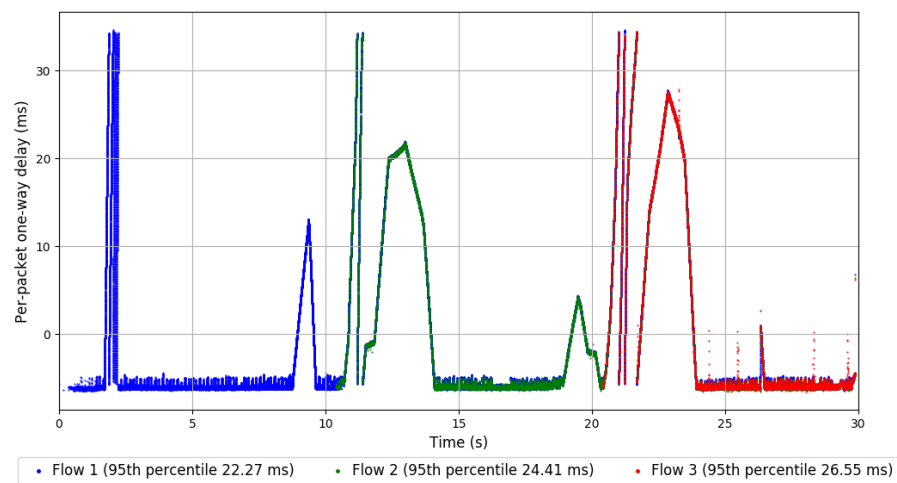
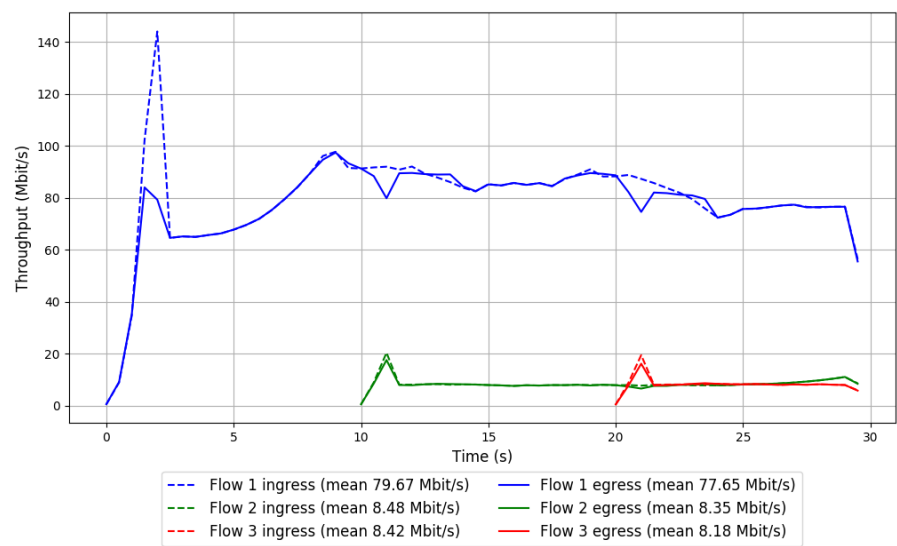
-- Flow 3:

Average throughput: 8.18 Mbit/s

95th percentile per-packet one-way delay: 26.554 ms

Loss rate: 2.74%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-05 01:28:11

End at: 2018-02-05 01:28:41

Local clock offset: 1.715 ms

Remote clock offset: 0.842 ms

Below is generated by plot.py at 2018-02-05 03:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.72 Mbit/s

95th percentile per-packet one-way delay: 27.127 ms

Loss rate: 4.01%

-- Flow 1:

Average throughput: 71.49 Mbit/s

95th percentile per-packet one-way delay: 26.955 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 28.127 ms

Loss rate: 4.01%

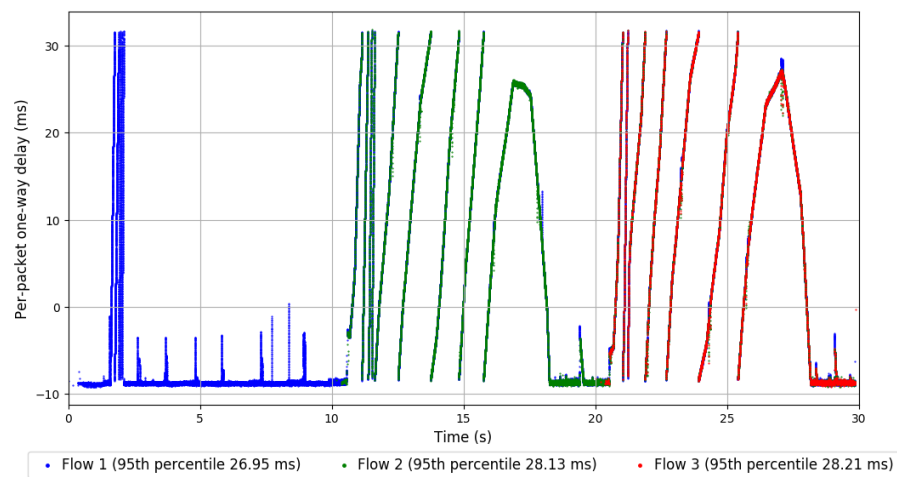
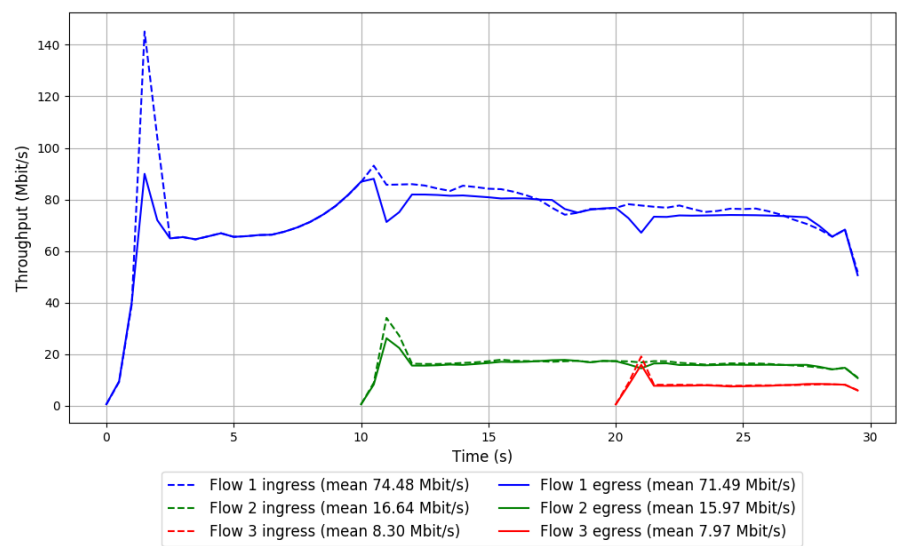
-- Flow 3:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 28.207 ms

Loss rate: 3.94%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-05 01:53:15

End at: 2018-02-05 01:53:45

Local clock offset: 3.946 ms

Remote clock offset: 2.231 ms

Below is generated by plot.py at 2018-02-05 03:25:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 26.529 ms

Loss rate: 4.33%

-- Flow 1:

Average throughput: 76.98 Mbit/s

95th percentile per-packet one-way delay: 26.155 ms

Loss rate: 4.23%

-- Flow 2:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 27.498 ms

Loss rate: 4.36%

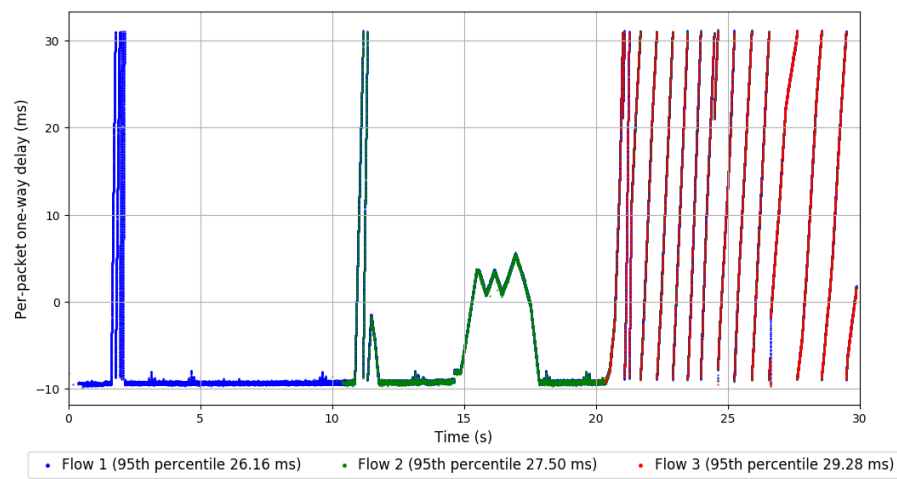
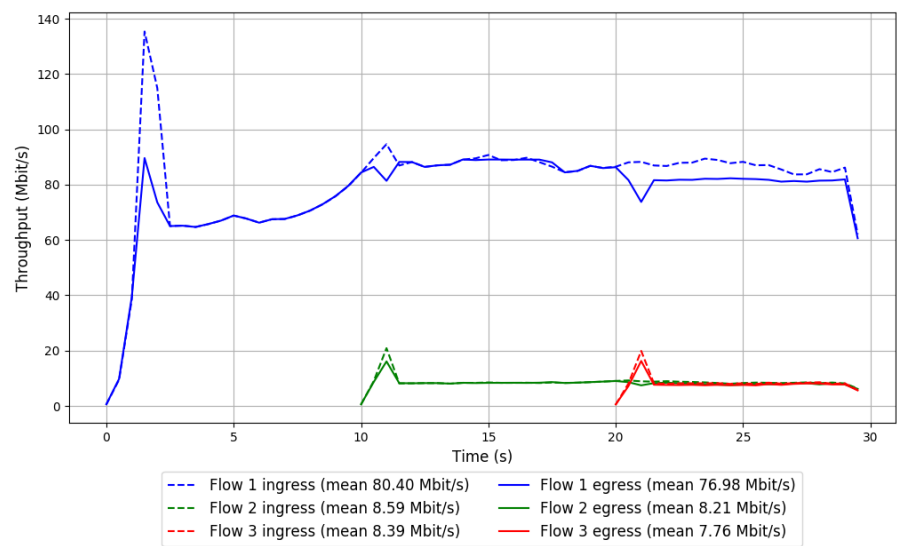
-- Flow 3:

Average throughput: 7.76 Mbit/s

95th percentile per-packet one-way delay: 29.284 ms

Loss rate: 7.35%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-05 02:18:13

End at: 2018-02-05 02:18:43

Local clock offset: 3.065 ms

Remote clock offset: 3.834 ms

Below is generated by plot.py at 2018-02-05 03:26:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 31.280 ms

Loss rate: 2.90%

-- Flow 1:

Average throughput: 71.09 Mbit/s

95th percentile per-packet one-way delay: 31.248 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 31.563 ms

Loss rate: 2.18%

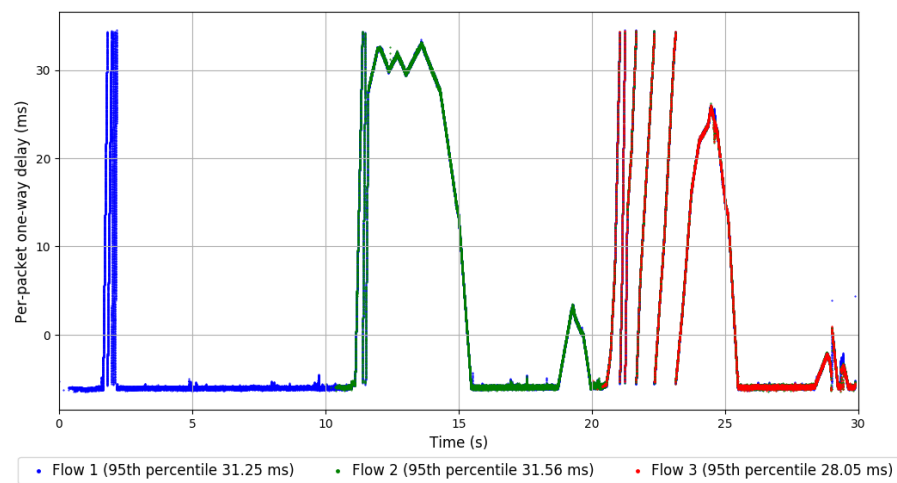
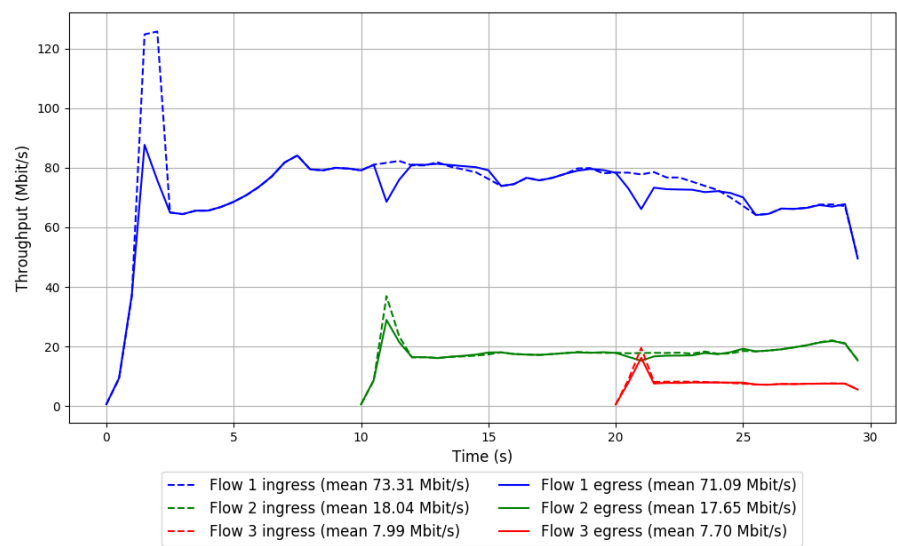
-- Flow 3:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 28.054 ms

Loss rate: 3.70%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-05 02:42:49

End at: 2018-02-05 02:43:19

Local clock offset: 3.155 ms

Remote clock offset: 3.267 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 30.396 ms

Loss rate: 8.40%

-- Flow 1:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 30.077 ms

Loss rate: 7.80%

-- Flow 2:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 31.054 ms

Loss rate: 10.35%

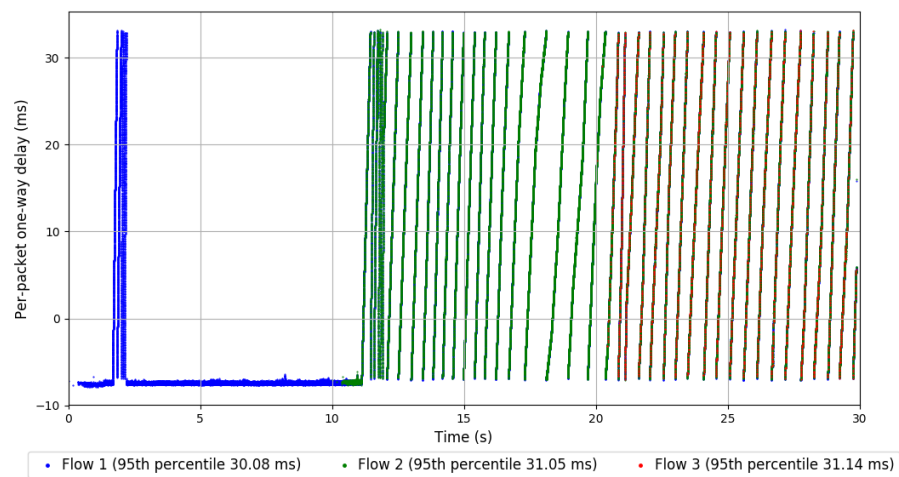
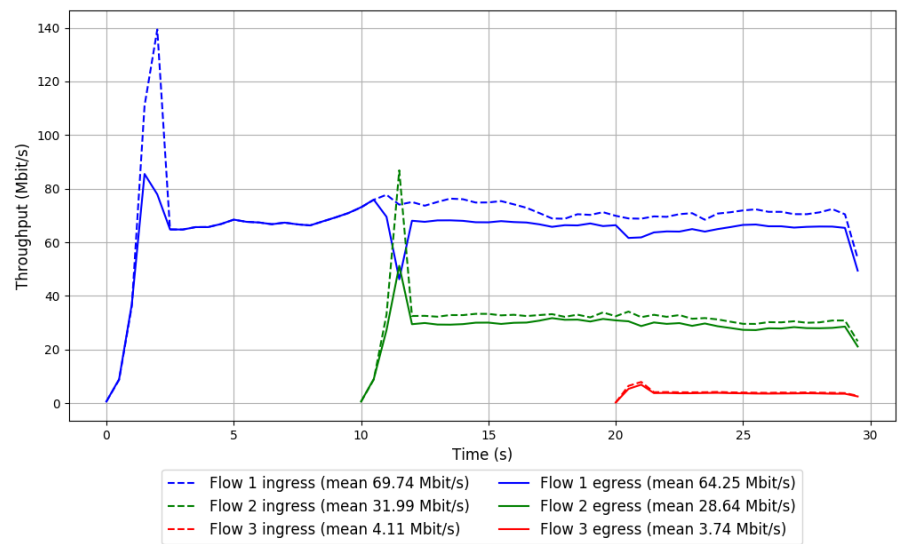
-- Flow 3:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 31.138 ms

Loss rate: 9.08%

Run 10: Report of PCC — Data Link

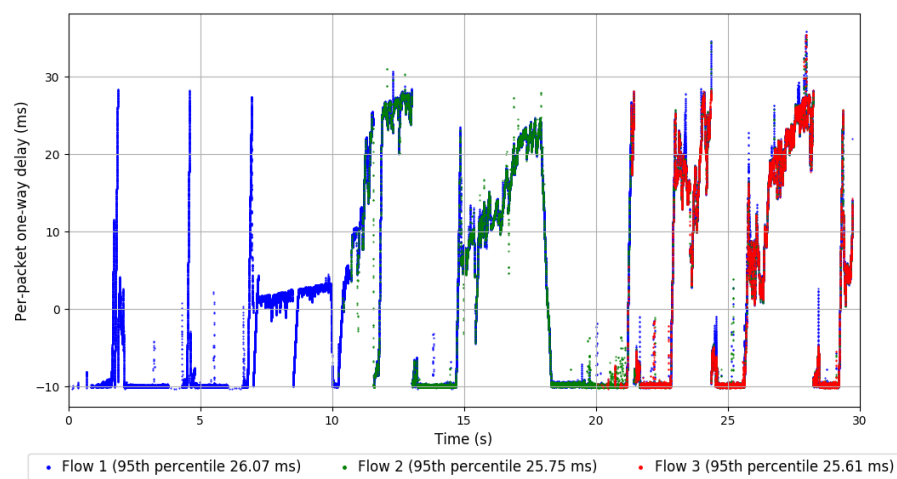
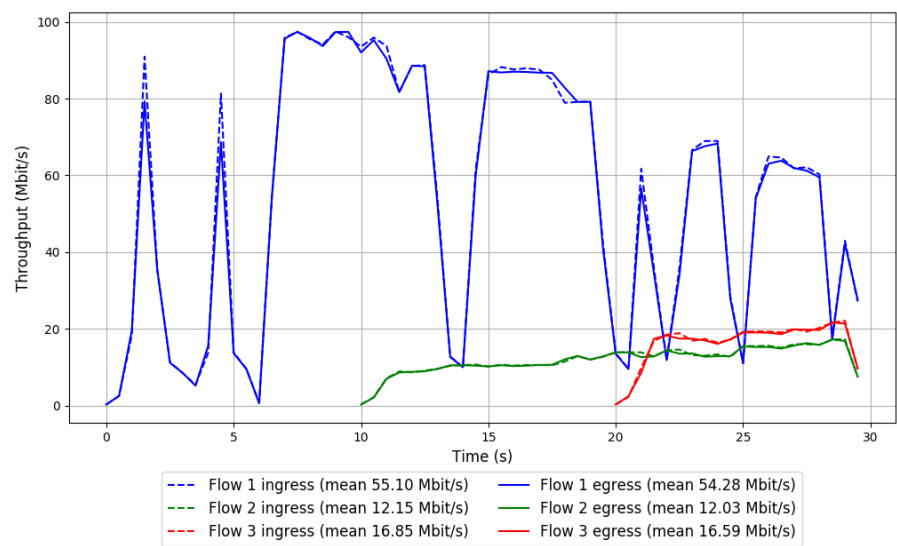


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-04 23:10:22
End at: 2018-02-04 23:10:52
Local clock offset: 1.01 ms
Remote clock offset: 9.117 ms

# Below is generated by plot.py at 2018-02-05 03:26:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.63 Mbit/s
95th percentile per-packet one-way delay: 25.979 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 54.28 Mbit/s
95th percentile per-packet one-way delay: 26.066 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 25.751 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 25.607 ms
Loss rate: 1.31%
```

Run 1: Report of QUIC Cubic — Data Link

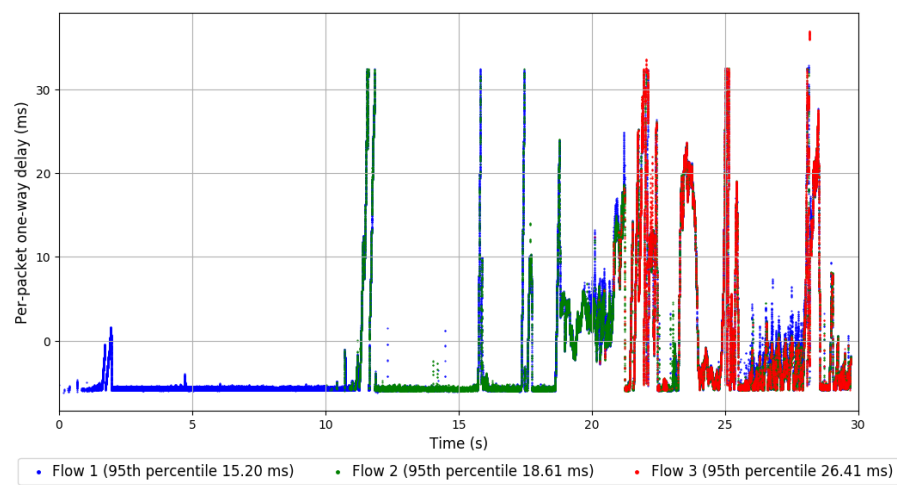
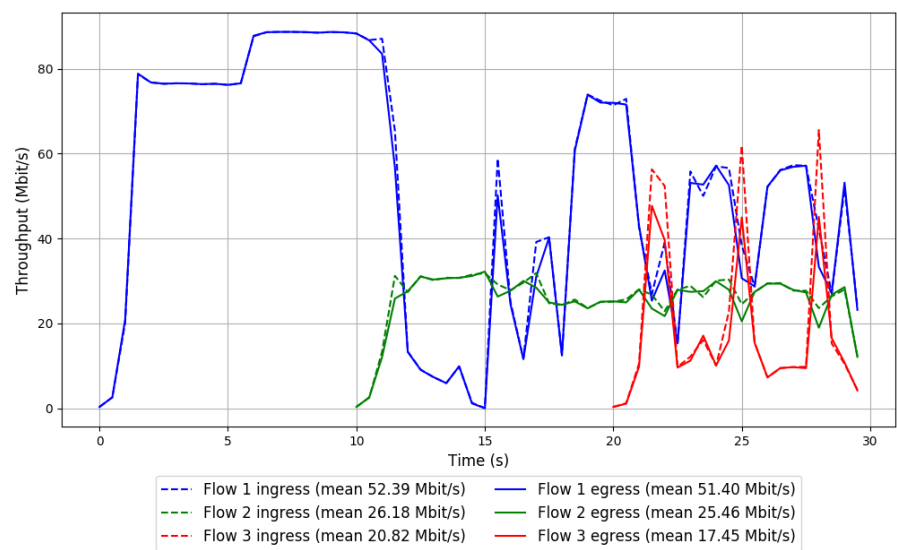


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-04 23:35:26
End at: 2018-02-04 23:35:56
Local clock offset: 0.609 ms
Remote clock offset: 15.285 ms

Below is generated by plot.py at 2018-02-05 03:26:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 18.729 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 15.195 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 18.605 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 17.45 Mbit/s
95th percentile per-packet one-way delay: 26.406 ms
Loss rate: 16.35%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-04 23:59:57

End at: 2018-02-05 00:00:27

Local clock offset: 0.16 ms

Remote clock offset: 9.297 ms

Below is generated by plot.py at 2018-02-05 03:26:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 29.619 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 54.87 Mbit/s

95th percentile per-packet one-way delay: 29.479 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 24.05 Mbit/s

95th percentile per-packet one-way delay: 29.908 ms

Loss rate: 0.94%

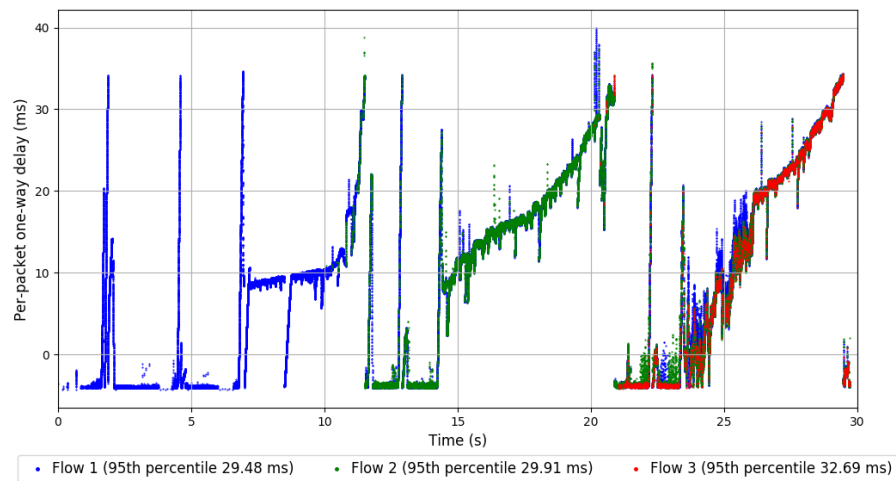
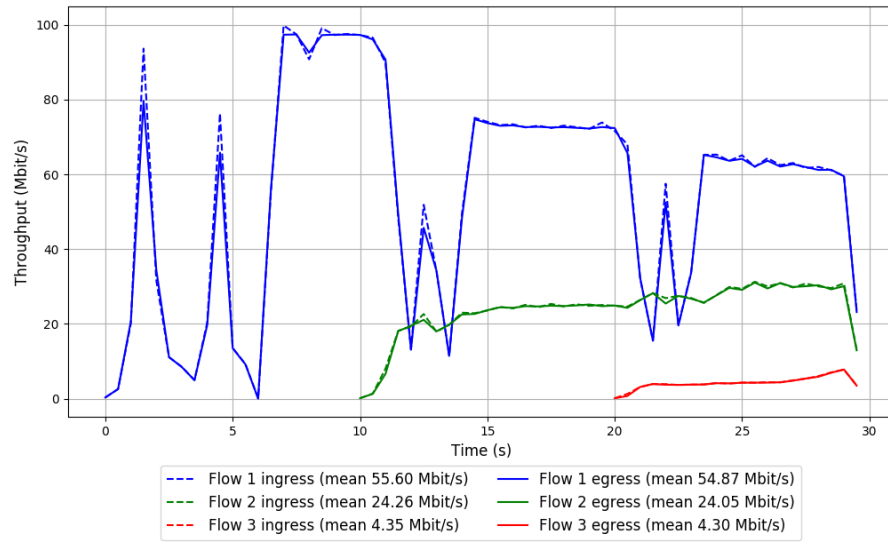
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 32.694 ms

Loss rate: 1.46%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-05 00:24:58

End at: 2018-02-05 00:25:28

Local clock offset: 0.349 ms

Remote clock offset: 2.804 ms

Below is generated by plot.py at 2018-02-05 03:26:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 21.591 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 22.110 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 13.55 Mbit/s

95th percentile per-packet one-way delay: 19.525 ms

Loss rate: 1.61%

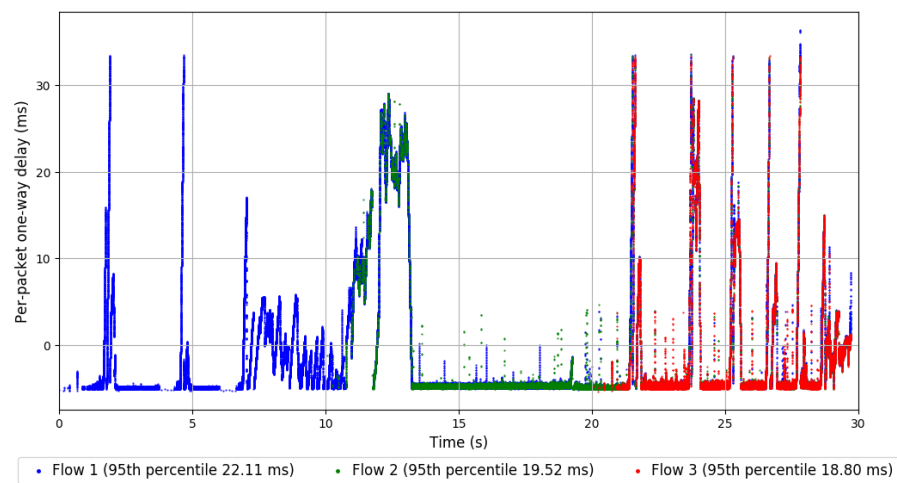
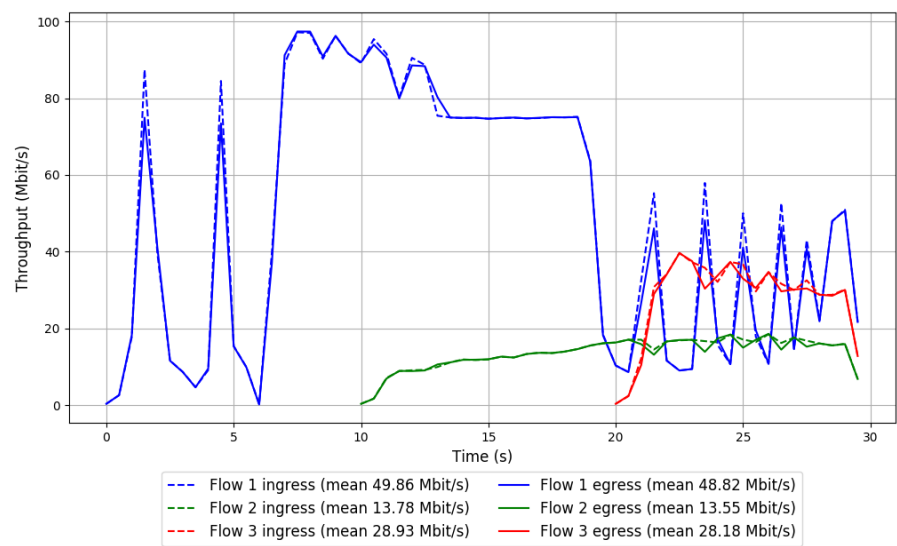
-- Flow 3:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 18.796 ms

Loss rate: 2.53%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-05 00:50:03

End at: 2018-02-05 00:50:33

Local clock offset: 3.551 ms

Remote clock offset: 1.822 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.87 Mbit/s

95th percentile per-packet one-way delay: 28.276 ms

Loss rate: 2.71%

-- Flow 1:

Average throughput: 41.44 Mbit/s

95th percentile per-packet one-way delay: 28.035 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 39.03 Mbit/s

95th percentile per-packet one-way delay: 28.571 ms

Loss rate: 2.34%

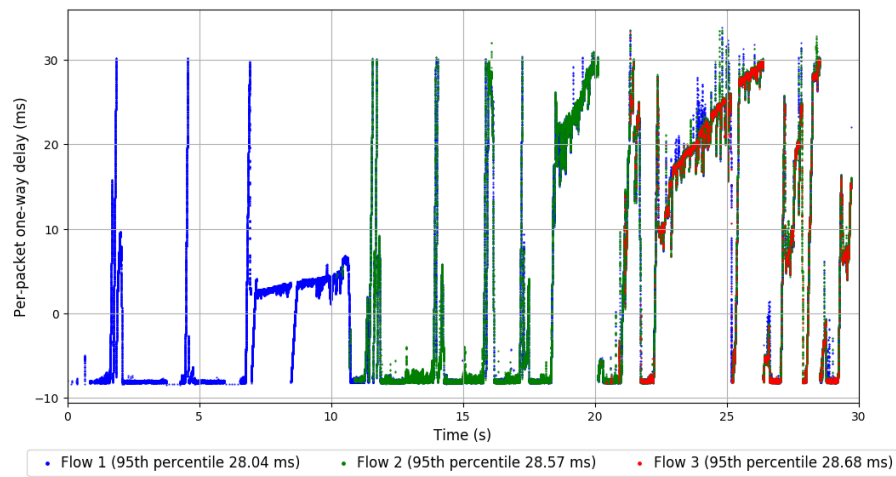
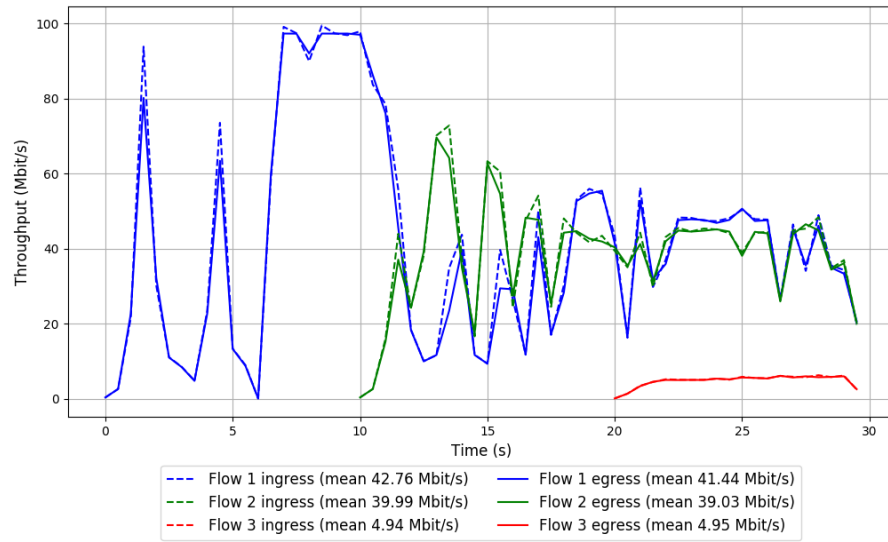
-- Flow 3:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 28.683 ms

Loss rate: 1.10%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-05 01:14:51

End at: 2018-02-05 01:15:21

Local clock offset: -0.593 ms

Remote clock offset: 1.939 ms

Below is generated by plot.py at 2018-02-05 03:26:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 28.566 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 51.75 Mbit/s

95th percentile per-packet one-way delay: 28.327 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 30.65 Mbit/s

95th percentile per-packet one-way delay: 28.897 ms

Loss rate: 0.74%

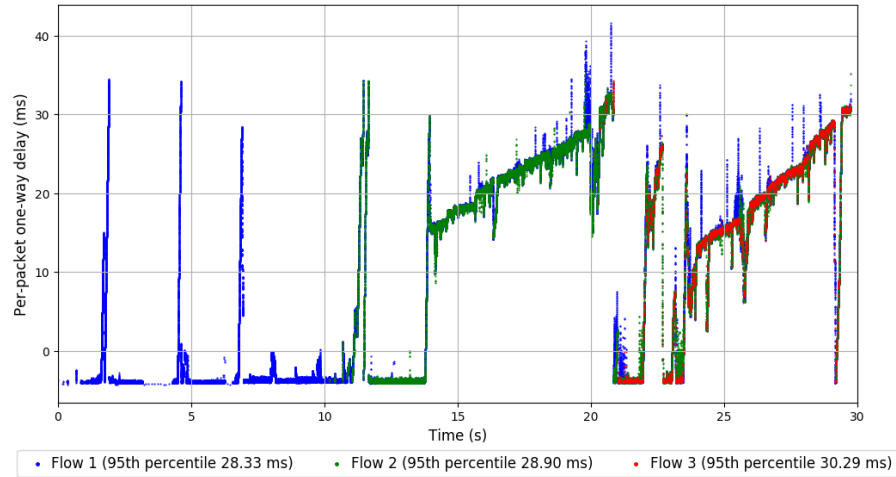
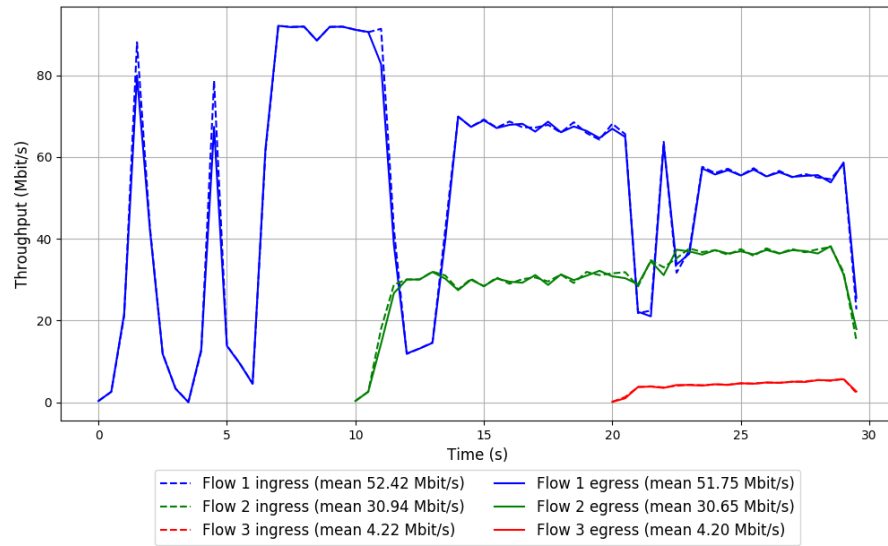
-- Flow 3:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 30.286 ms

Loss rate: 0.39%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-05 01:39:15

End at: 2018-02-05 01:39:45

Local clock offset: 0.669 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-02-05 03:27:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 23.850 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 23.199 ms

Loss rate: 2.78%

-- Flow 2:

Average throughput: 37.83 Mbit/s

95th percentile per-packet one-way delay: 23.750 ms

Loss rate: 3.44%

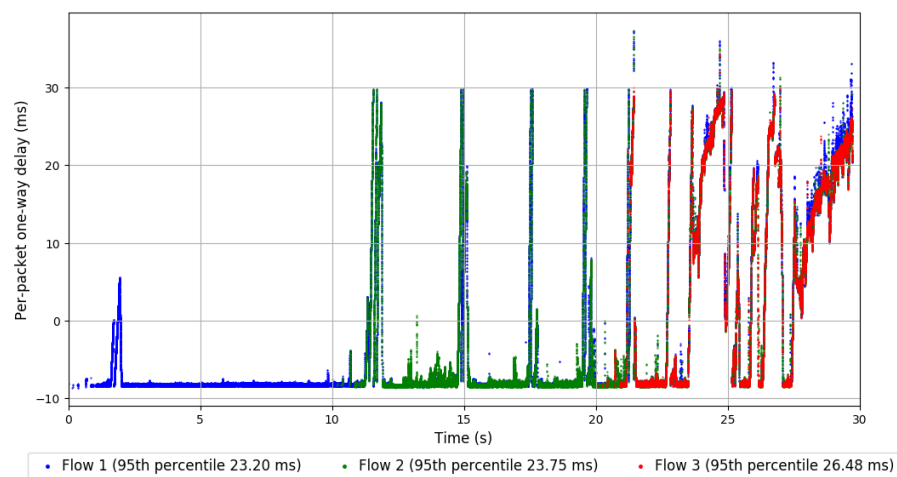
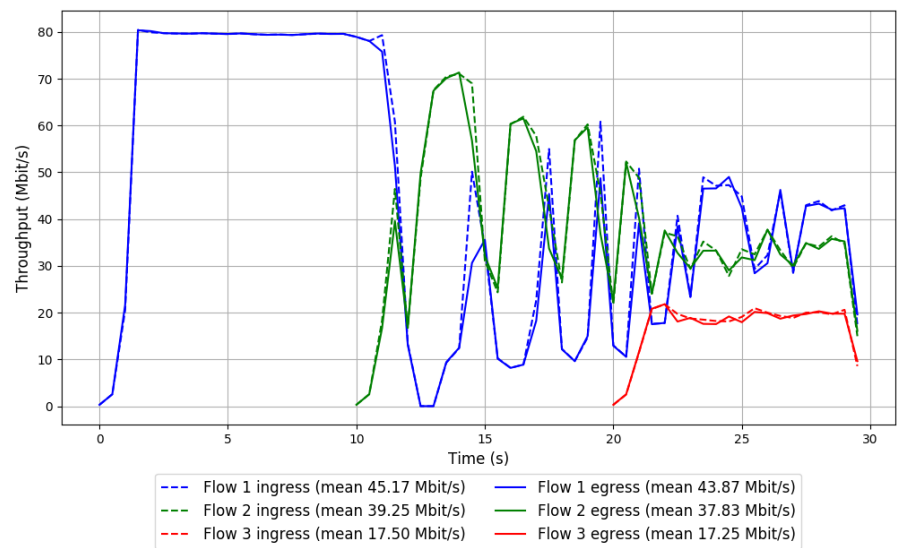
-- Flow 3:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 26.485 ms

Loss rate: 1.05%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-05 02:04:19

End at: 2018-02-05 02:04:49

Local clock offset: 1.038 ms

Remote clock offset: 3.713 ms

Below is generated by plot.py at 2018-02-05 03:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.68 Mbit/s

95th percentile per-packet one-way delay: 27.828 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 48.10 Mbit/s

95th percentile per-packet one-way delay: 27.769 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 27.968 ms

Loss rate: 0.74%

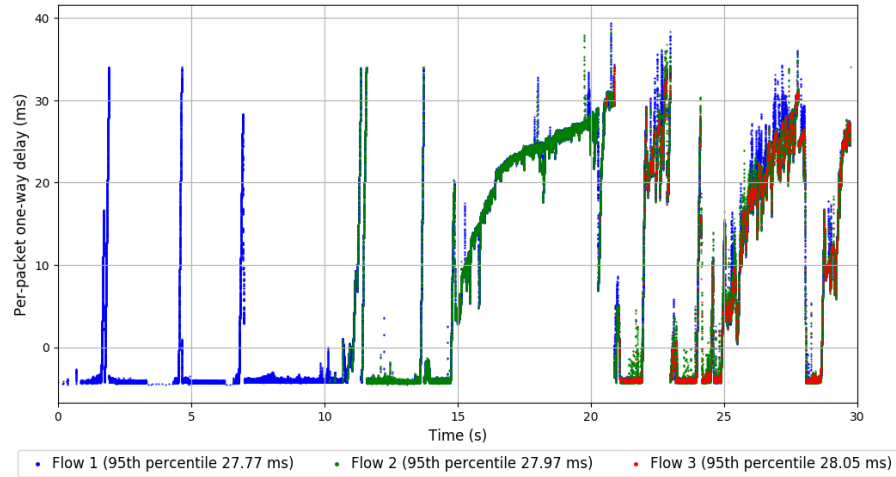
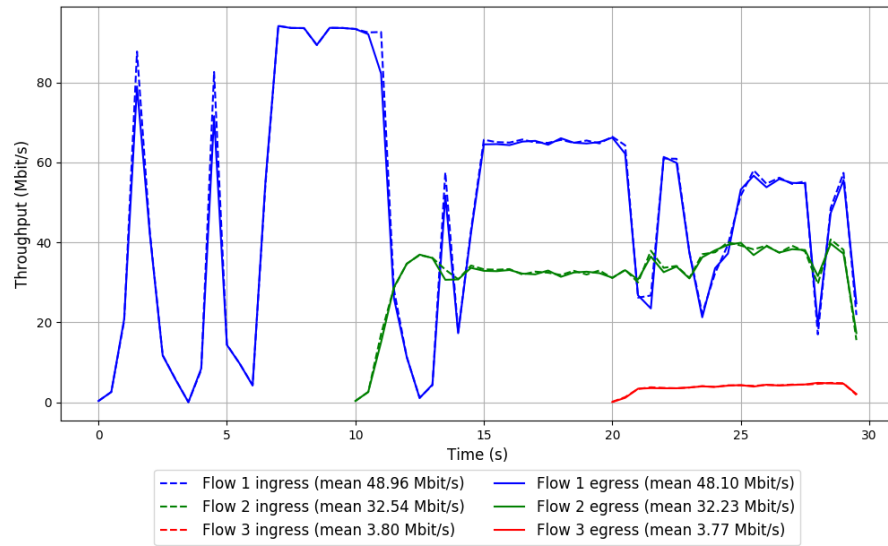
-- Flow 3:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 28.053 ms

Loss rate: 0.75%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-05 02:29:14

End at: 2018-02-05 02:29:44

Local clock offset: -0.2 ms

Remote clock offset: 4.232 ms

Below is generated by plot.py at 2018-02-05 03:27:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 22.733 ms

Loss rate: 3.24%

-- Flow 1:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 21.708 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 17.96 Mbit/s

95th percentile per-packet one-way delay: 20.833 ms

Loss rate: 2.24%

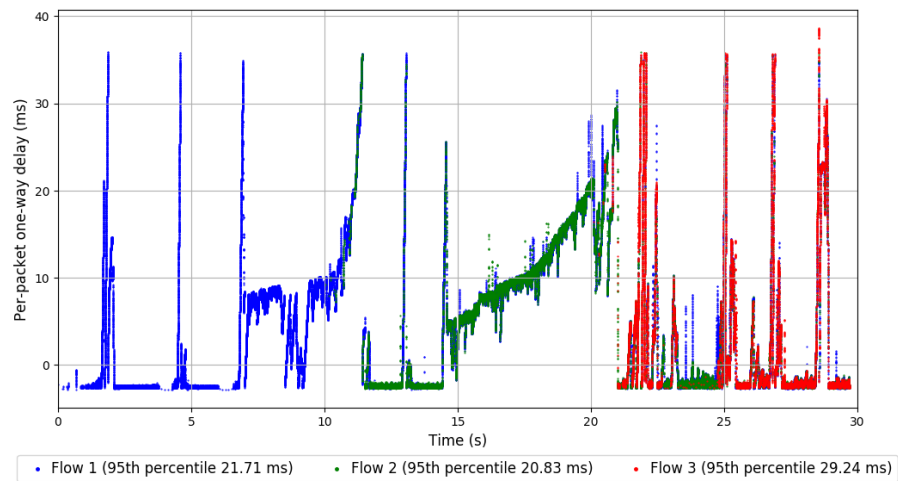
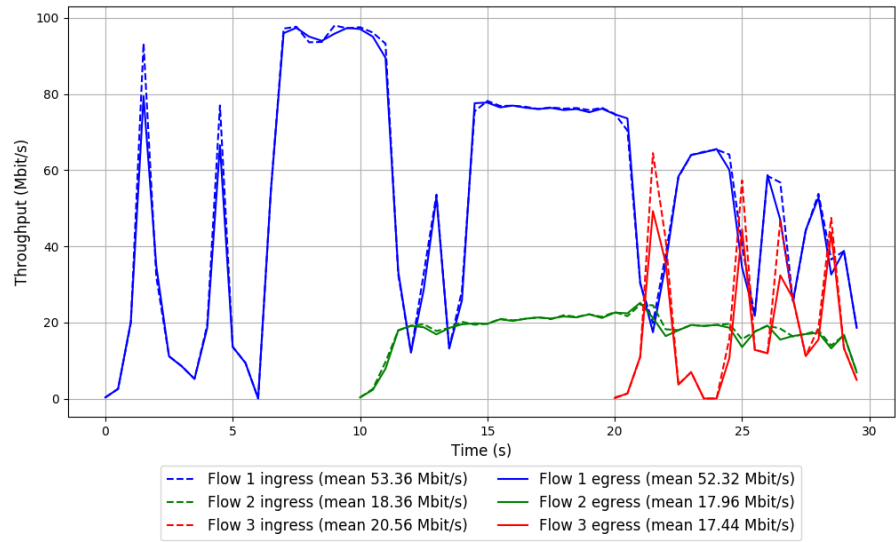
-- Flow 3:

Average throughput: 17.44 Mbit/s

95th percentile per-packet one-way delay: 29.240 ms

Loss rate: 15.36%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-05 02:54:03

End at: 2018-02-05 02:54:33

Local clock offset: 2.932 ms

Remote clock offset: 3.353 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 16.890 ms

Loss rate: 3.33%

-- Flow 1:

Average throughput: 51.66 Mbit/s

95th percentile per-packet one-way delay: 16.486 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 15.250 ms

Loss rate: 2.06%

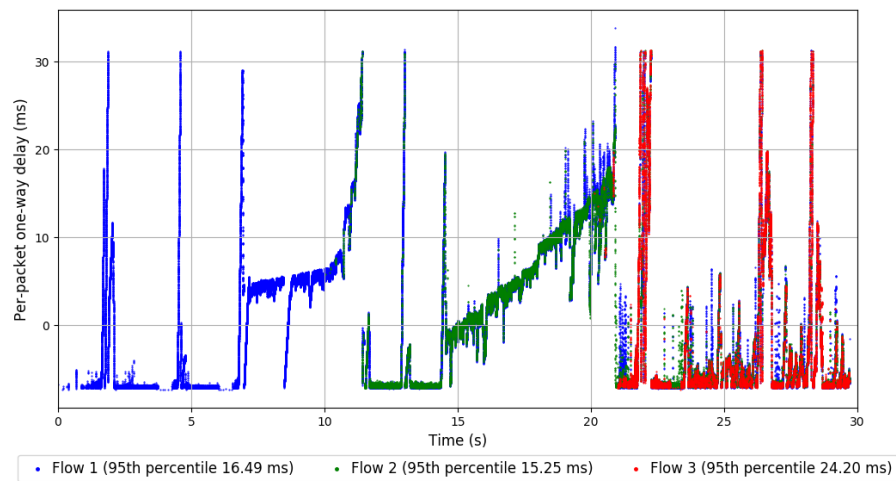
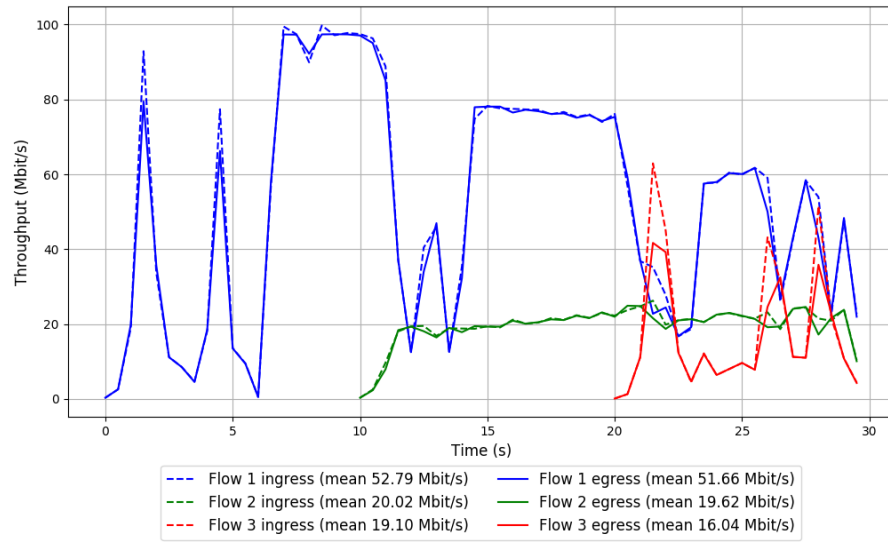
-- Flow 3:

Average throughput: 16.04 Mbit/s

95th percentile per-packet one-way delay: 24.199 ms

Loss rate: 16.25%

Run 10: Report of QUIC Cubic — Data Link

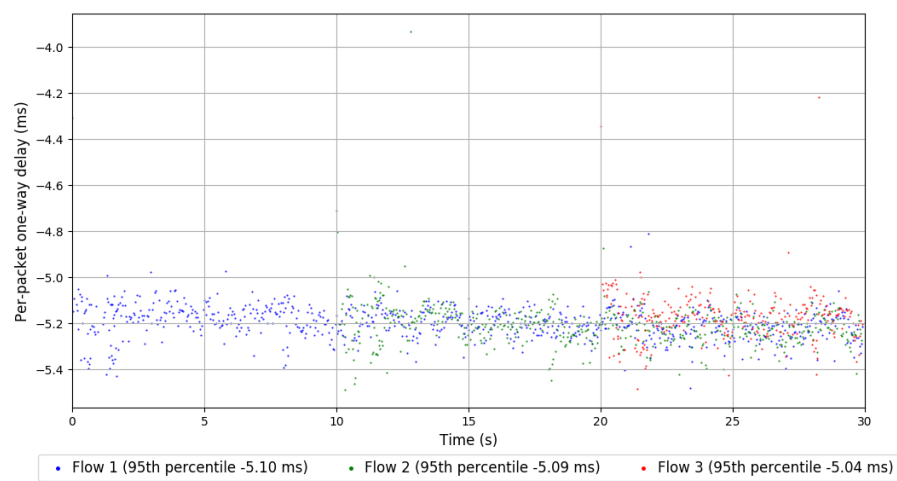
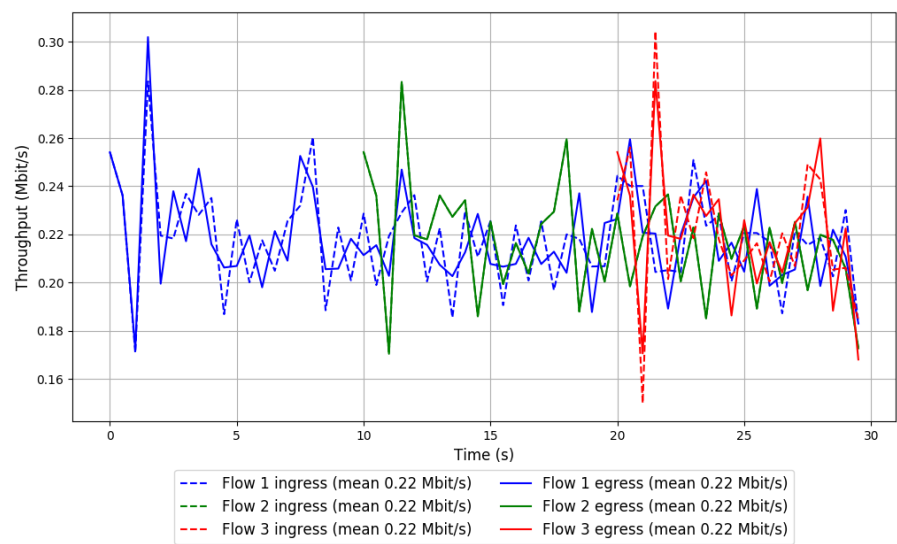


```
Run 1: Statistics of SReAM

Start at: 2018-02-04 23:03:40
End at: 2018-02-04 23:04:11
Local clock offset: -2.837 ms
Remote clock offset: 9.099 ms

# Below is generated by plot.py at 2018-02-05 03:27:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: -5.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -5.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -5.093 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -5.038 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-02-04 23:28:35

End at: 2018-02-04 23:29:05

Local clock offset: 0.187 ms

Remote clock offset: 14.0 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -5.869 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.876 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.884 ms

Loss rate: 0.00%

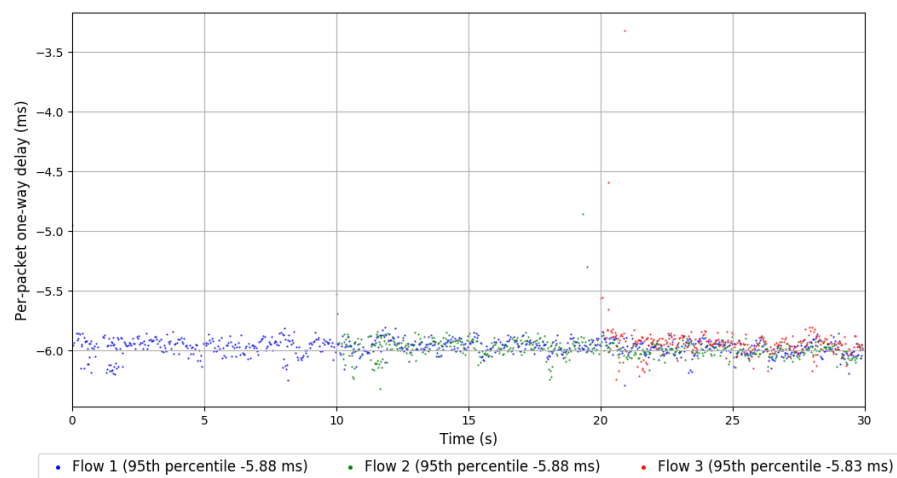
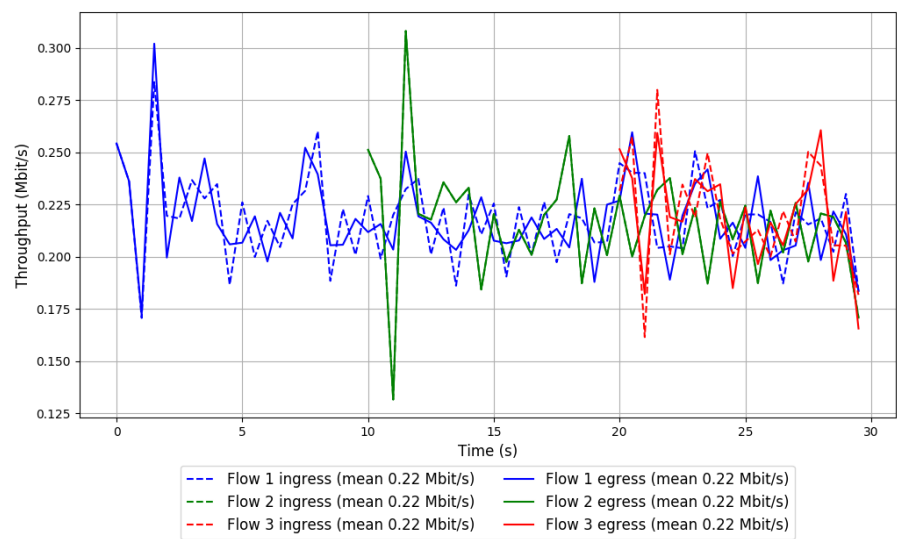
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.834 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-02-04 23:53:16

End at: 2018-02-04 23:53:46

Local clock offset: -3.053 ms

Remote clock offset: 9.236 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -2.382 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -2.408 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -2.366 ms

Loss rate: 0.00%

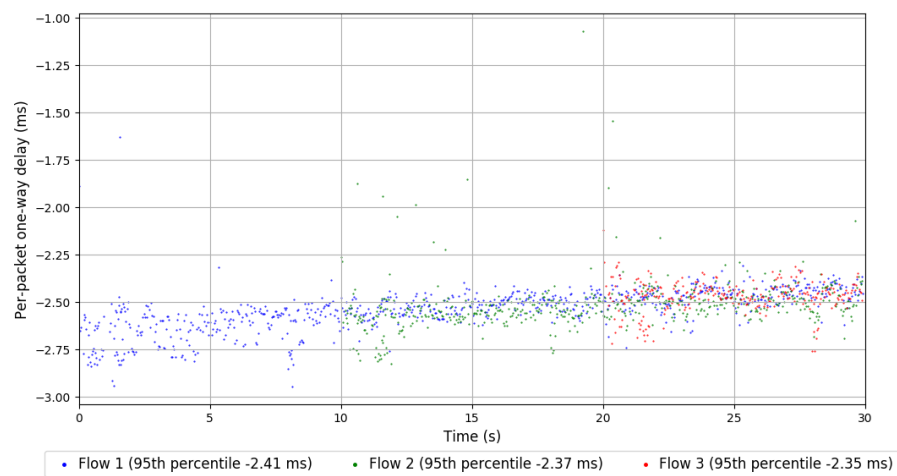
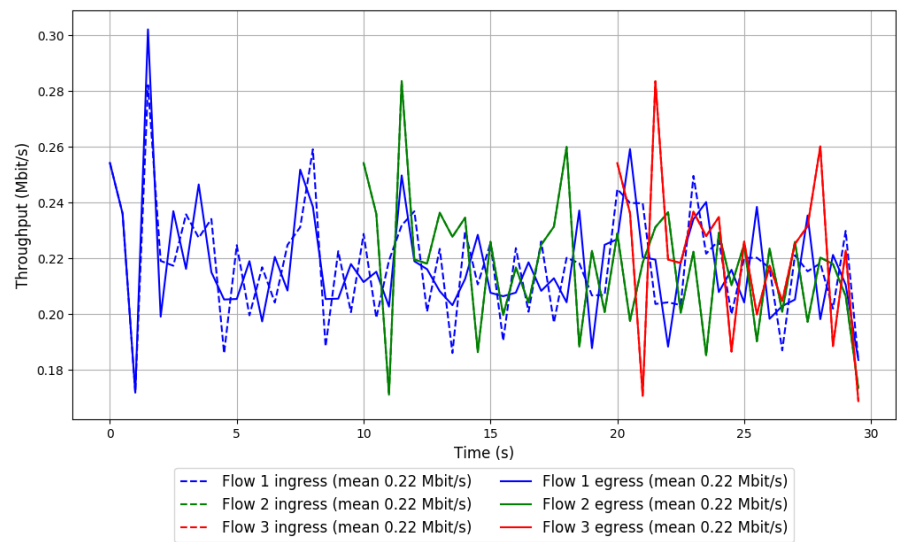
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -2.349 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-05 00:17:44

End at: 2018-02-05 00:18:14

Local clock offset: 1.717 ms

Remote clock offset: 2.488 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -7.920 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -7.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -7.910 ms

Loss rate: 0.00%

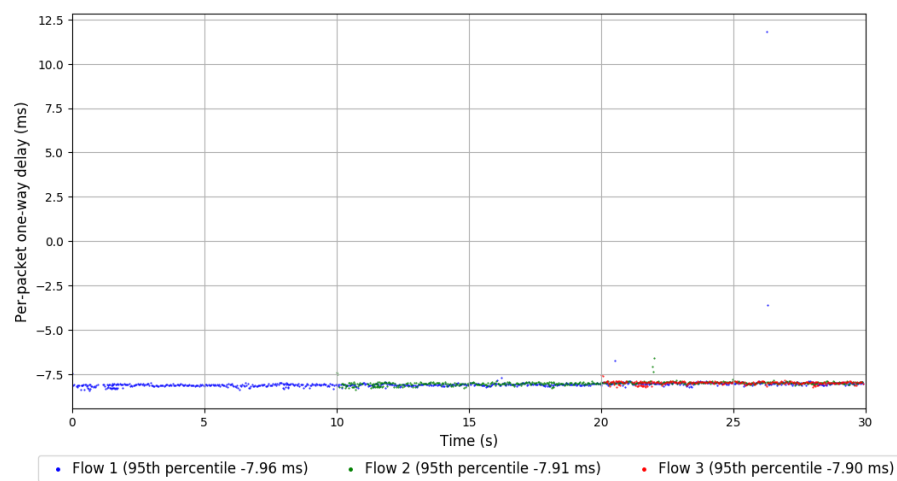
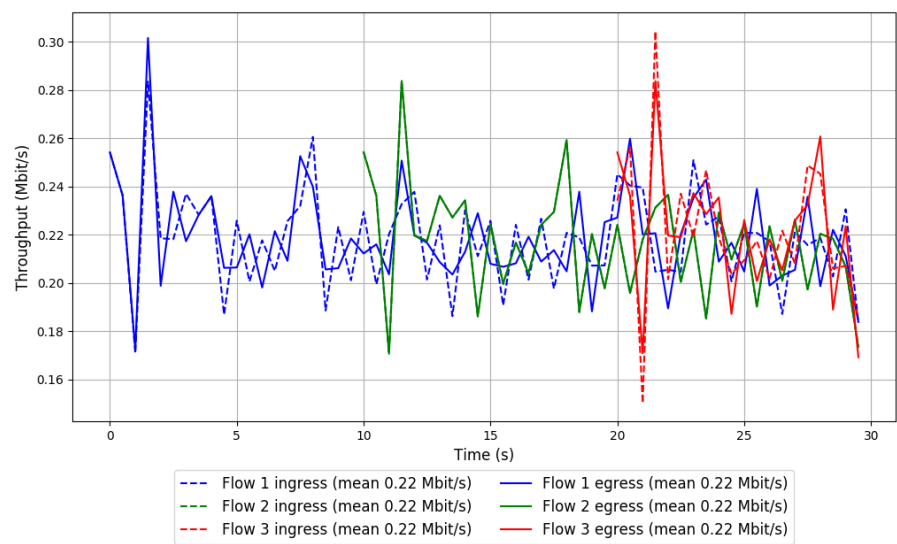
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -7.899 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-02-05 00:43:06

End at: 2018-02-05 00:43:36

Local clock offset: 0.072 ms

Remote clock offset: 1.139 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -5.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.292 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.252 ms

Loss rate: 0.00%

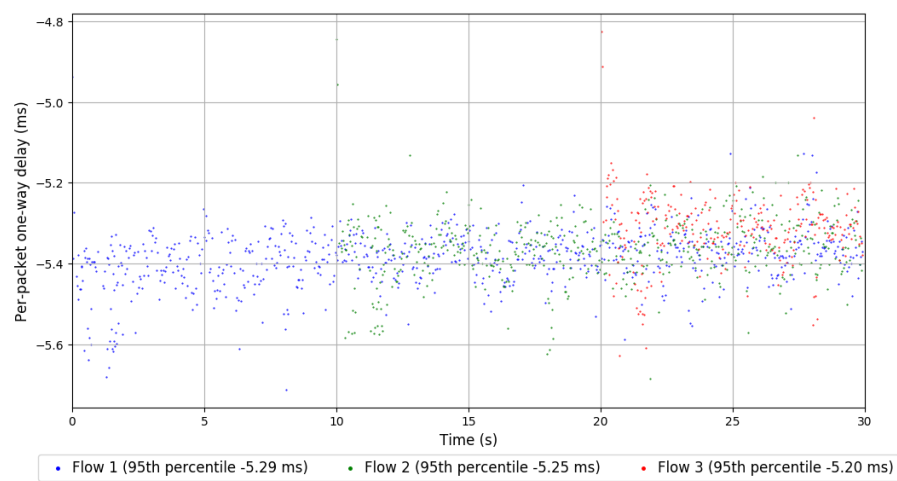
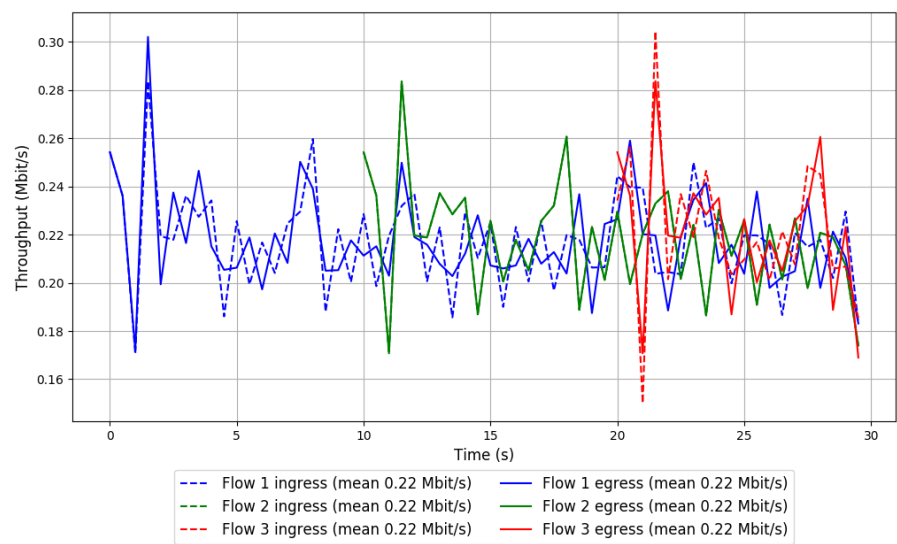
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.204 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

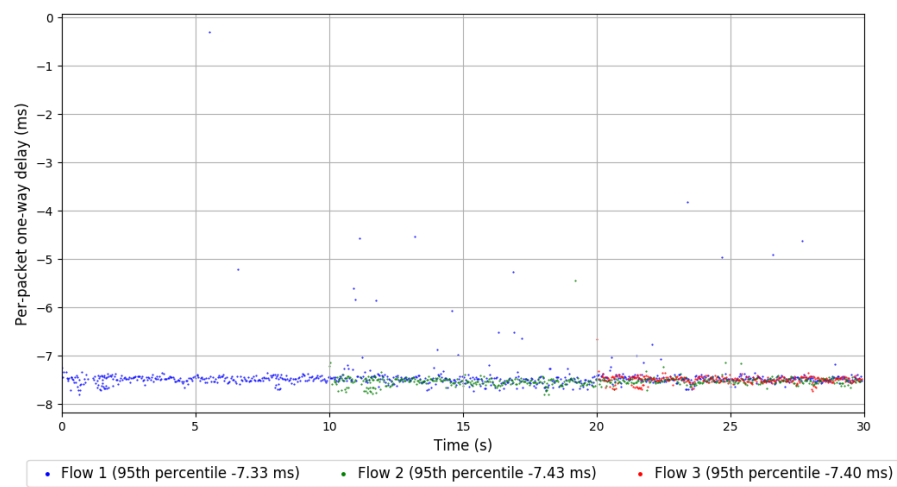
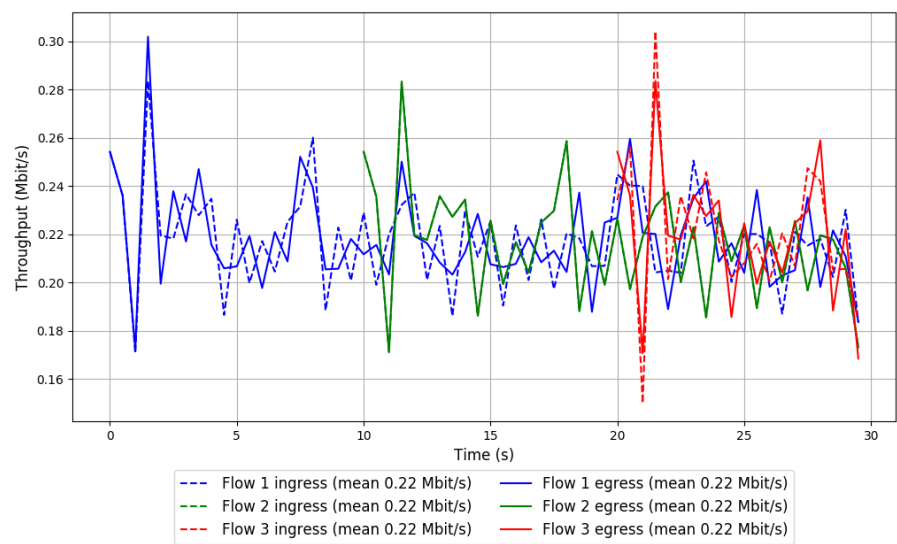


Run 6: Statistics of SReAM

Start at: 2018-02-05 01:08:01
End at: 2018-02-05 01:08:31
Local clock offset: 0.986 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-02-05 03:27:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: -7.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.327 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.404 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-02-05 01:32:26

End at: 2018-02-05 01:32:56

Local clock offset: 1.753 ms

Remote clock offset: 2.891 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -6.960 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -6.996 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -6.944 ms

Loss rate: 0.00%

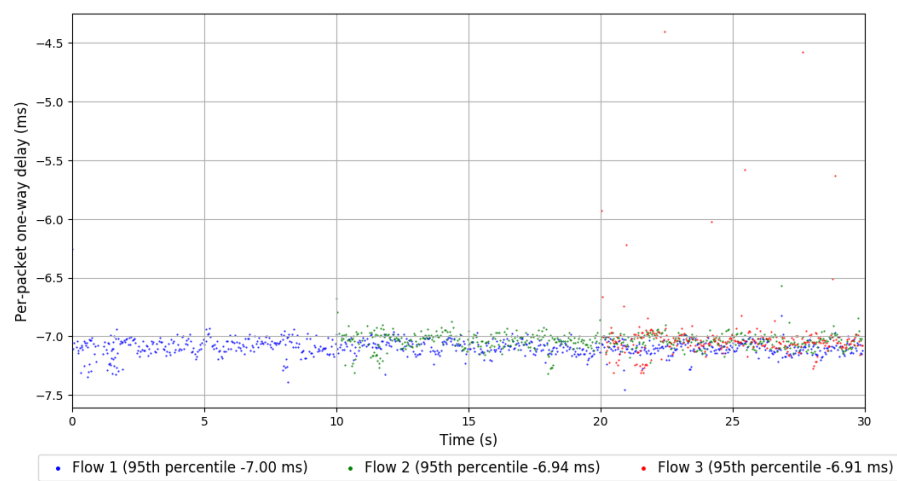
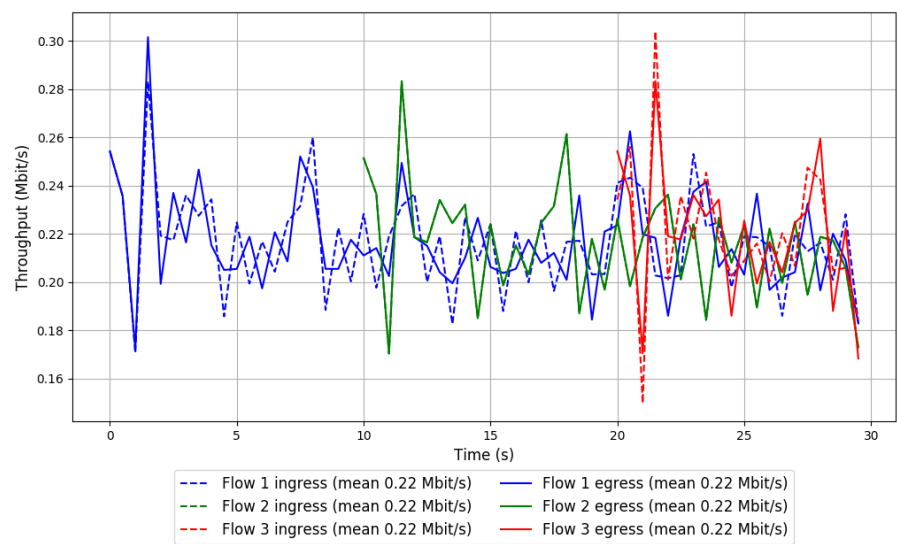
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -6.910 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-02-05 01:57:20

End at: 2018-02-05 01:57:50

Local clock offset: 2.767 ms

Remote clock offset: 2.608 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -7.423 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -7.432 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

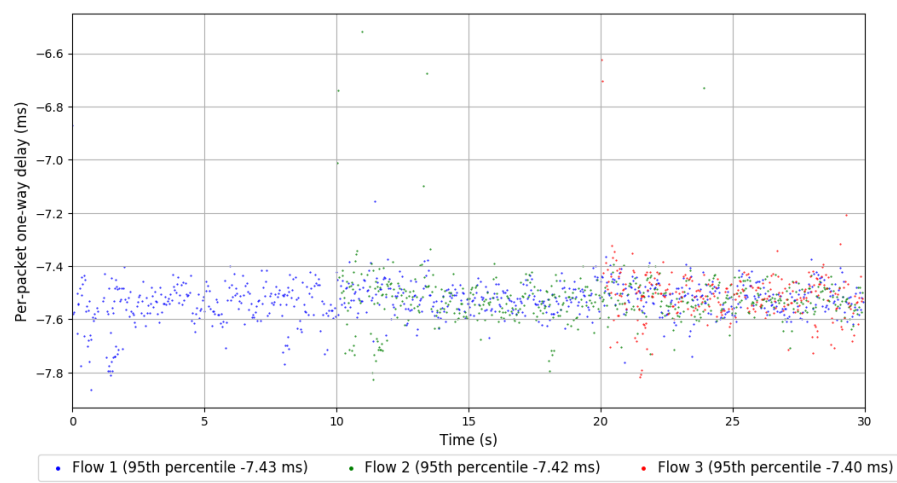
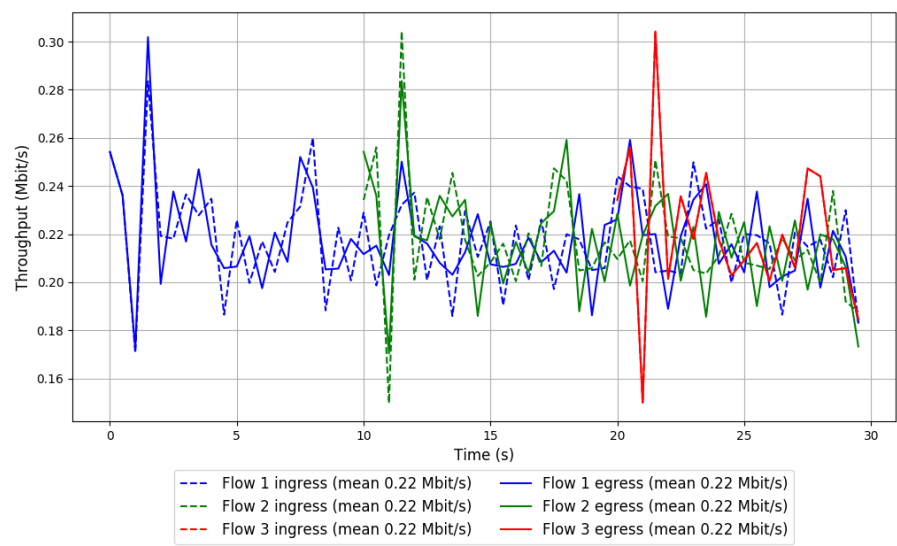
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -7.404 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-05 02:22:29

End at: 2018-02-05 02:22:59

Local clock offset: 1.824 ms

Remote clock offset: 2.723 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -5.736 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.763 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.751 ms

Loss rate: 0.00%

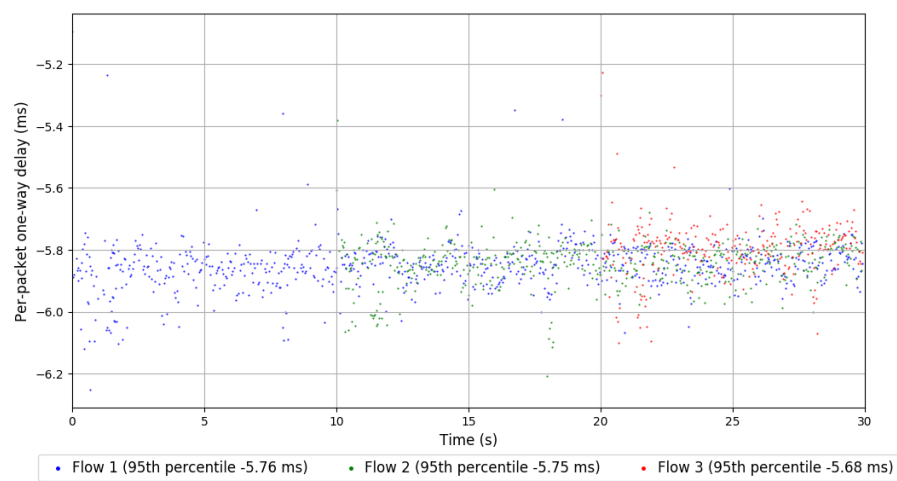
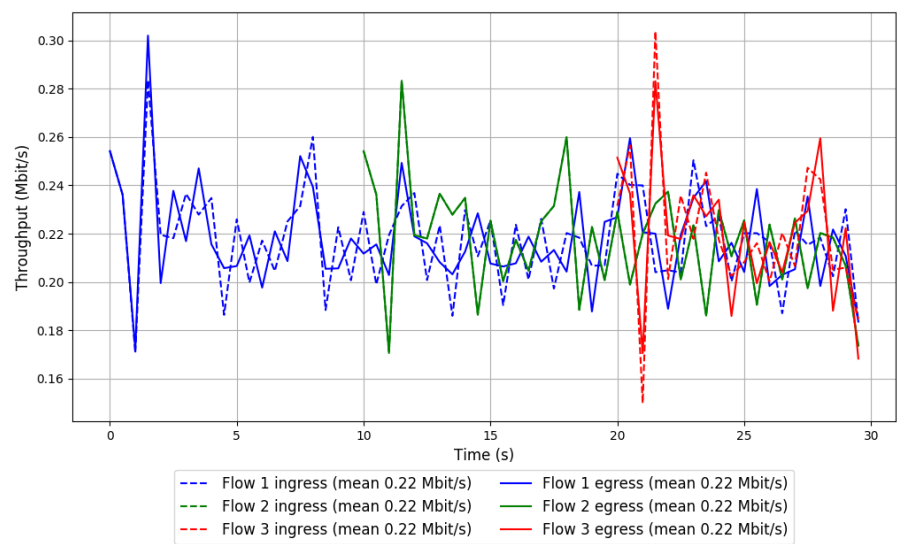
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -5.677 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-05 02:47:10

End at: 2018-02-05 02:47:40

Local clock offset: 1.338 ms

Remote clock offset: 3.857 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: -4.825 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -4.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -4.806 ms

Loss rate: 0.00%

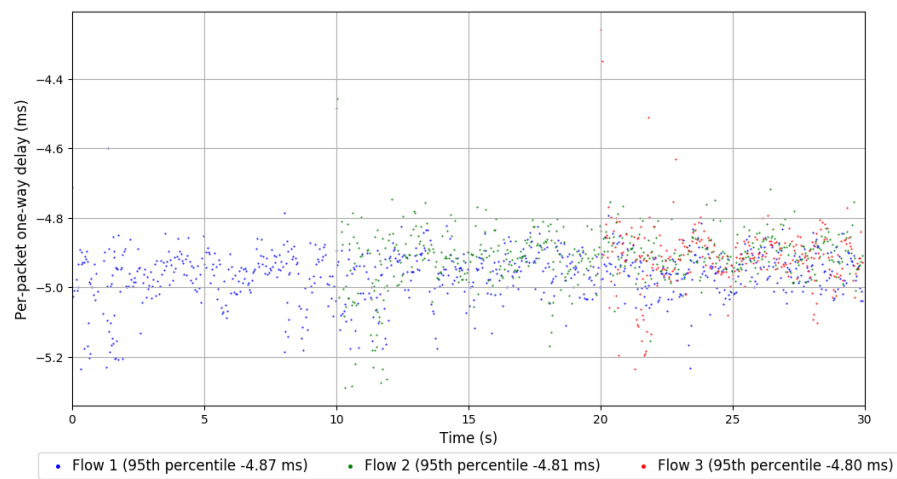
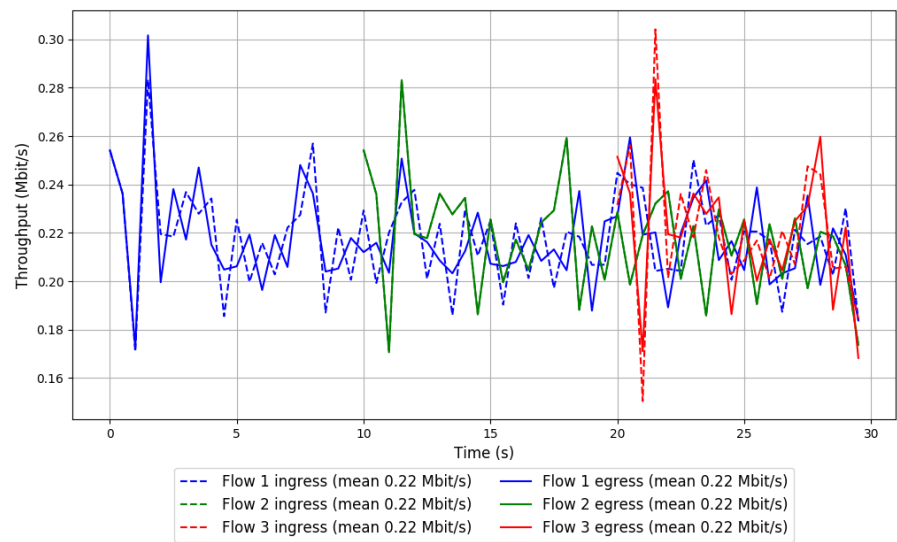
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: -4.805 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-04 22:56:36

End at: 2018-02-04 22:57:06

Local clock offset: 2.25 ms

Remote clock offset: 9.251 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: -7.499 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -7.974 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: -6.616 ms

Loss rate: 0.00%

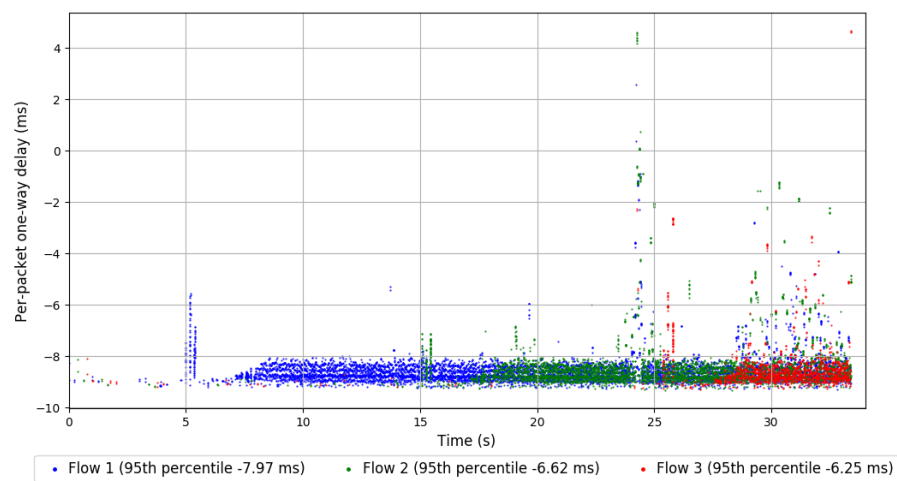
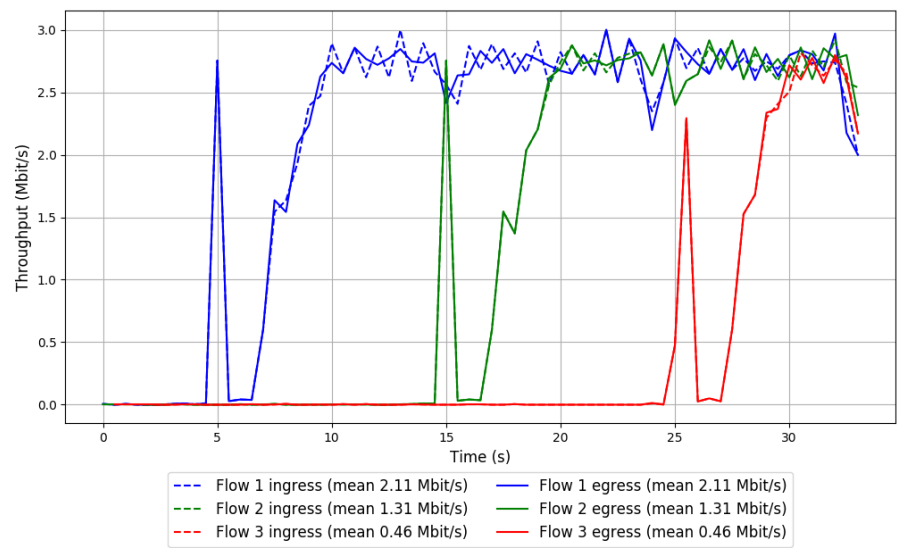
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -6.247 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

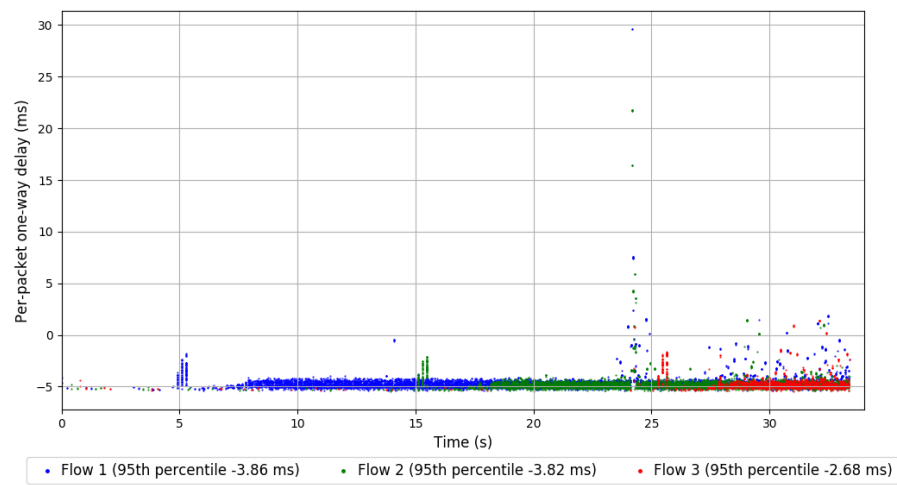
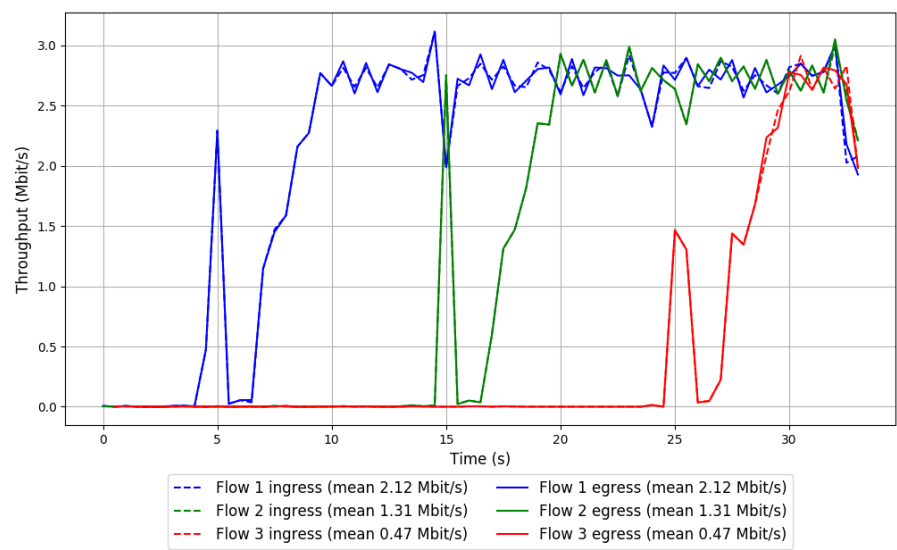


Run 2: Statistics of WebRTC media

Start at: 2018-02-04 23:21:36
End at: 2018-02-04 23:22:06
Local clock offset: -3.501 ms
Remote clock offset: 10.736 ms

Below is generated by plot.py at 2018-02-05 03:27:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: -3.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: -3.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: -3.823 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: -2.677 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-04 23:46:23

End at: 2018-02-04 23:46:53

Local clock offset: -0.976 ms

Remote clock offset: 7.341 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: -6.470 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -6.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: -6.246 ms

Loss rate: 0.00%

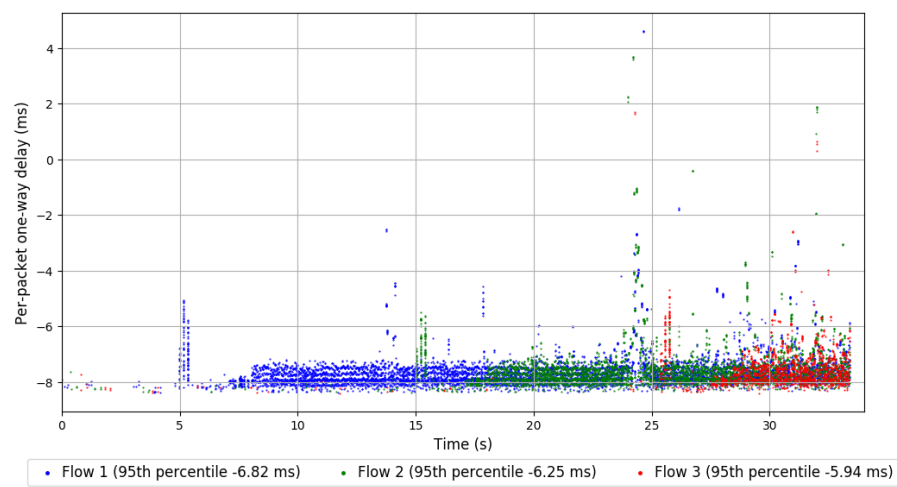
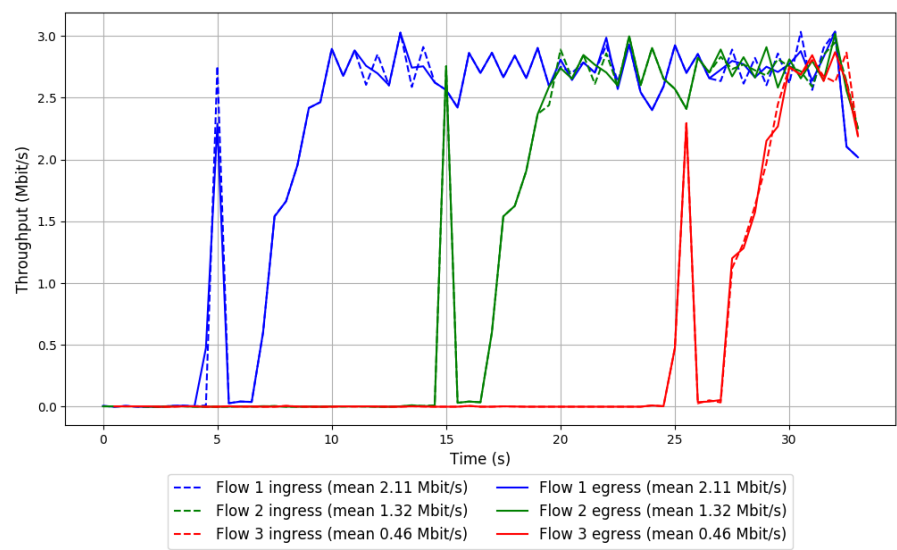
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -5.938 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-05 00:10:40

End at: 2018-02-05 00:11:10

Local clock offset: 1.54 ms

Remote clock offset: 6.355 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: -5.236 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -5.623 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: -5.108 ms

Loss rate: 0.00%

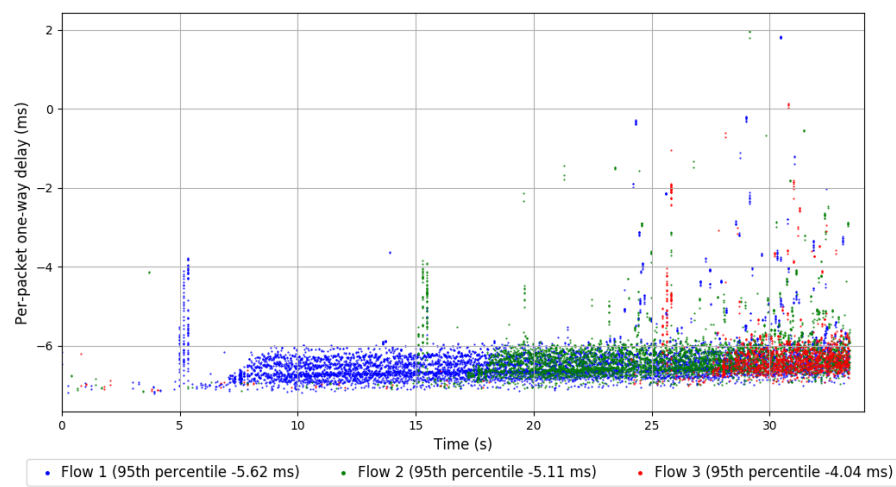
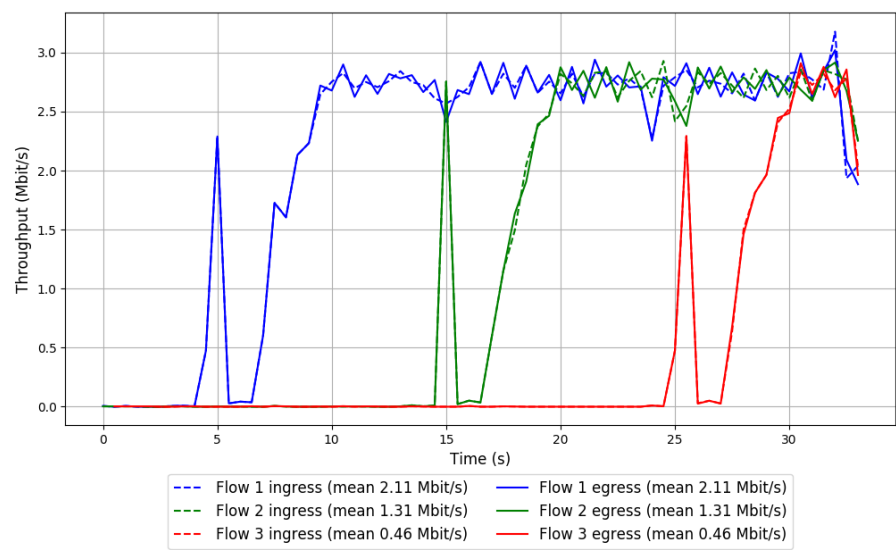
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -4.039 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-05 00:35:52

End at: 2018-02-05 00:36:22

Local clock offset: 2.882 ms

Remote clock offset: 2.827 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: -5.470 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -5.874 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: -5.224 ms

Loss rate: 0.00%

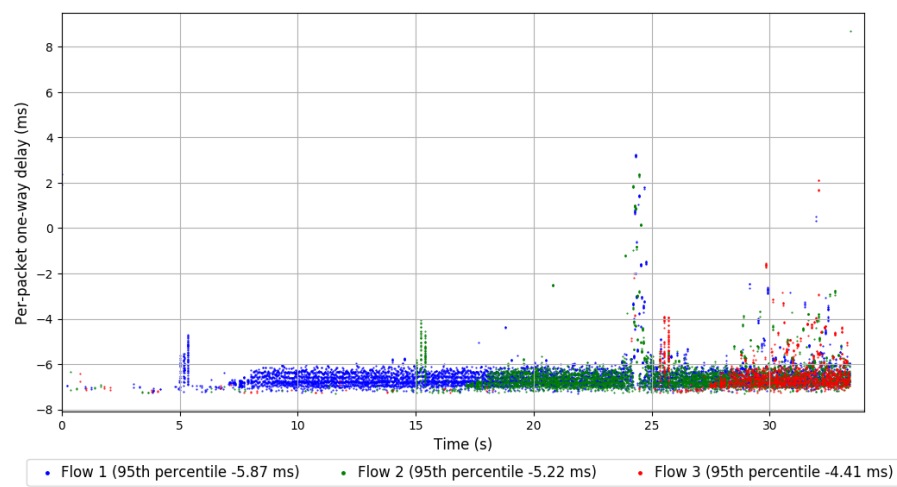
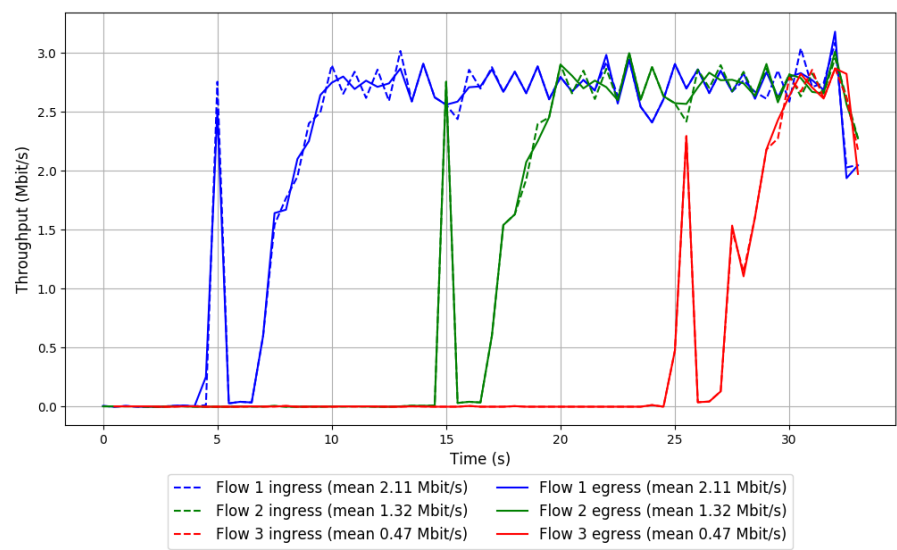
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: -4.408 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-05 01:00:57

End at: 2018-02-05 01:01:27

Local clock offset: 0.782 ms

Remote clock offset: 1.836 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: -4.223 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: -4.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: -4.044 ms

Loss rate: 0.00%

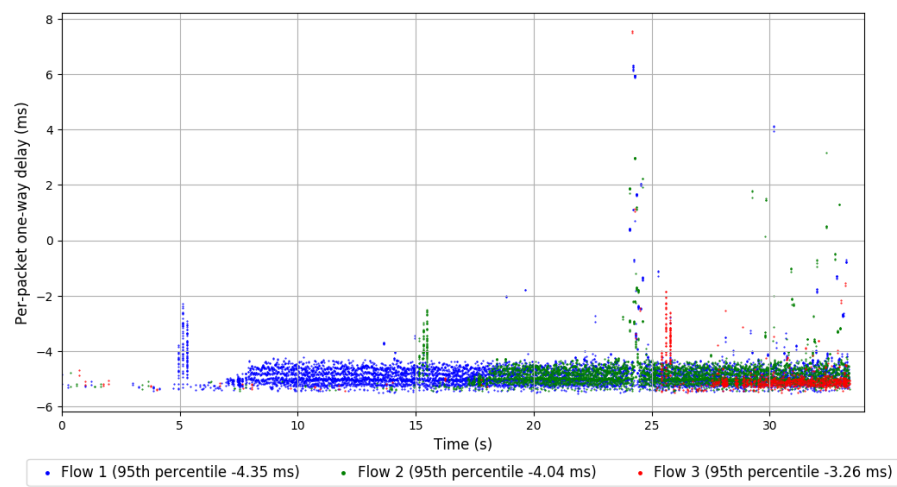
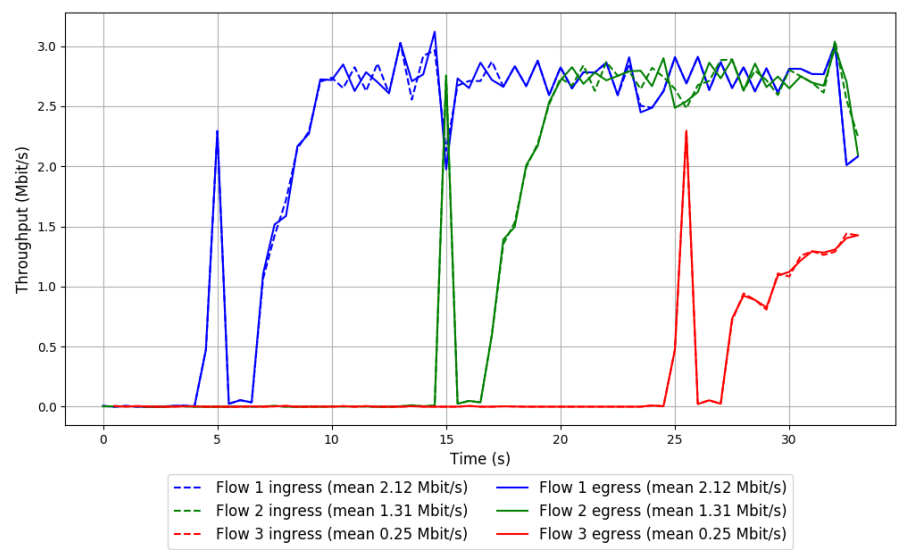
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: -3.259 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-05 01:25:31

End at: 2018-02-05 01:26:01

Local clock offset: 1.52 ms

Remote clock offset: 2.226 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: -5.698 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -6.009 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: -5.579 ms

Loss rate: 0.00%

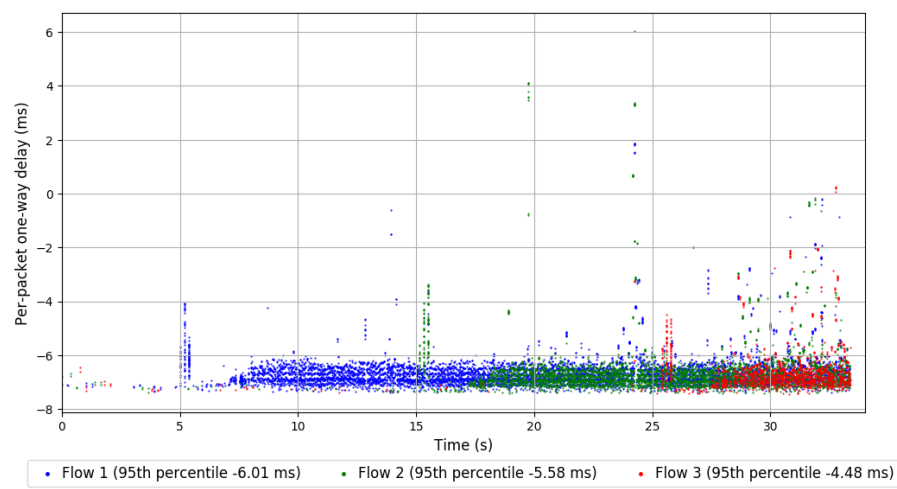
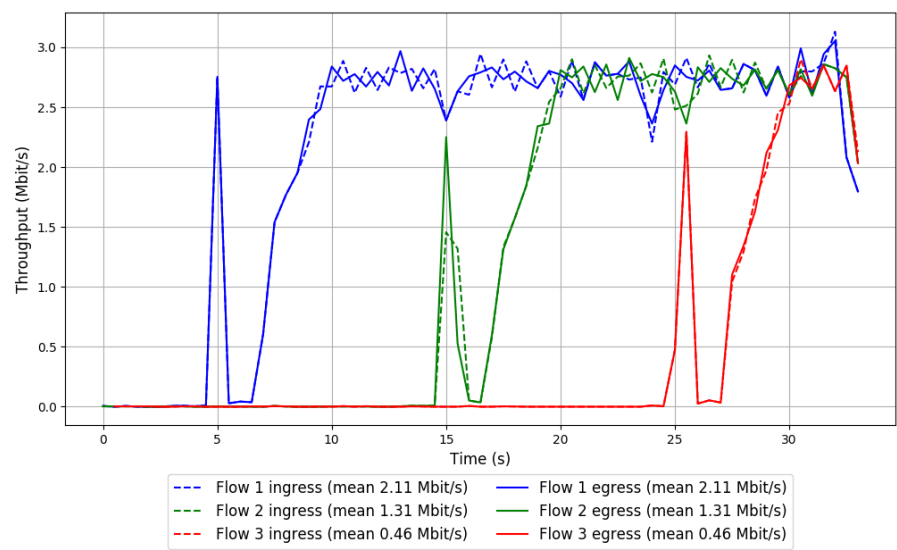
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -4.476 ms

Loss rate: 0.30%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-05 01:50:28

End at: 2018-02-05 01:50:58

Local clock offset: 3.76 ms

Remote clock offset: 2.398 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: -7.848 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: -8.075 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: -7.854 ms

Loss rate: 0.00%

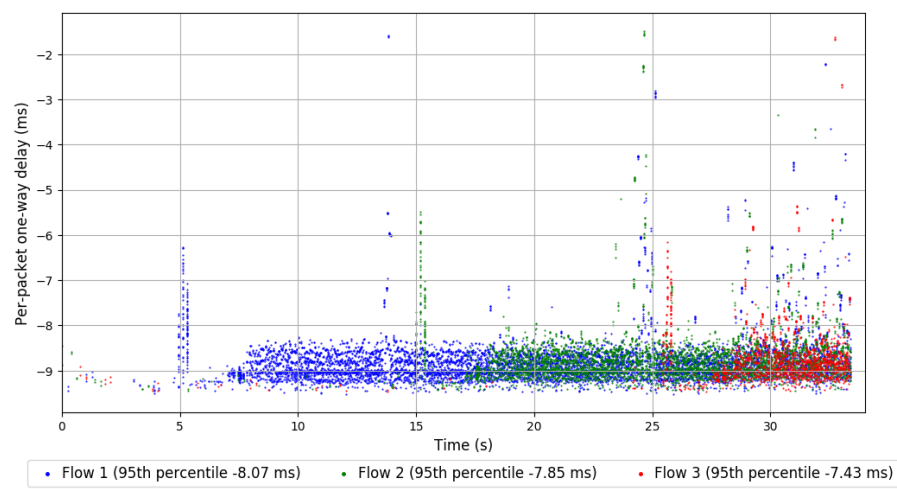
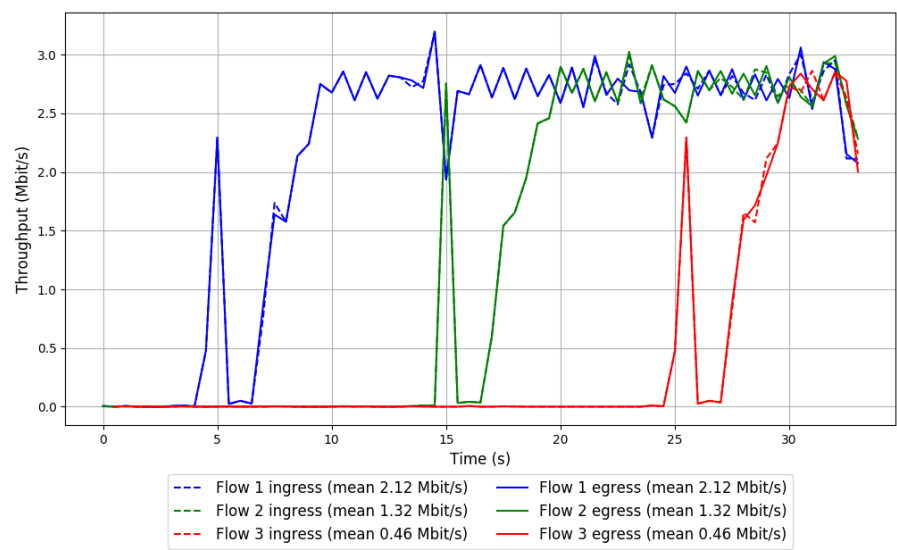
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -7.431 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-05 02:15:32

End at: 2018-02-05 02:16:02

Local clock offset: 2.125 ms

Remote clock offset: 1.868 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: -5.884 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -6.205 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: -5.310 ms

Loss rate: 0.00%

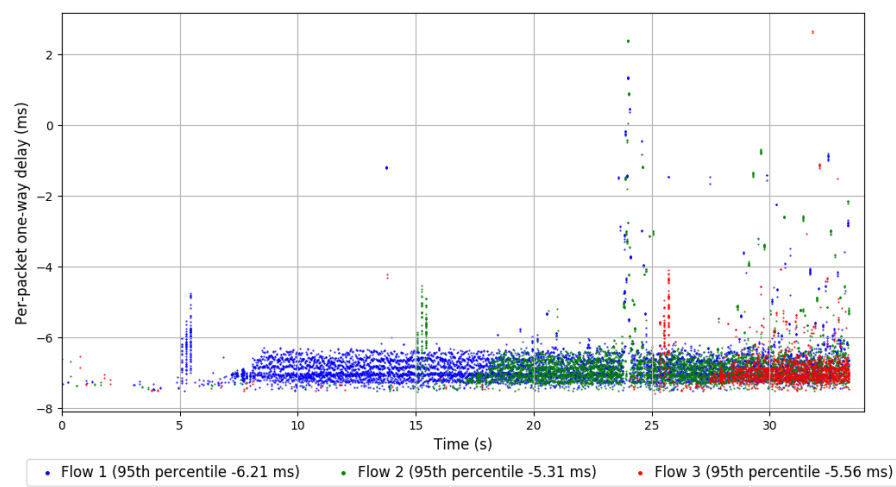
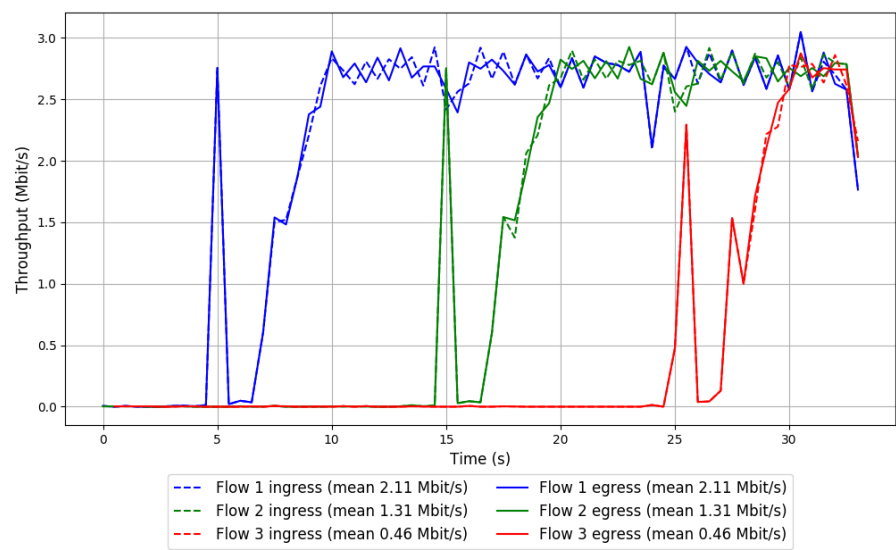
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -5.558 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-05 02:39:59

End at: 2018-02-05 02:40:29

Local clock offset: 1.823 ms

Remote clock offset: 2.097 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: -5.779 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: -6.045 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: -5.968 ms

Loss rate: 0.00%

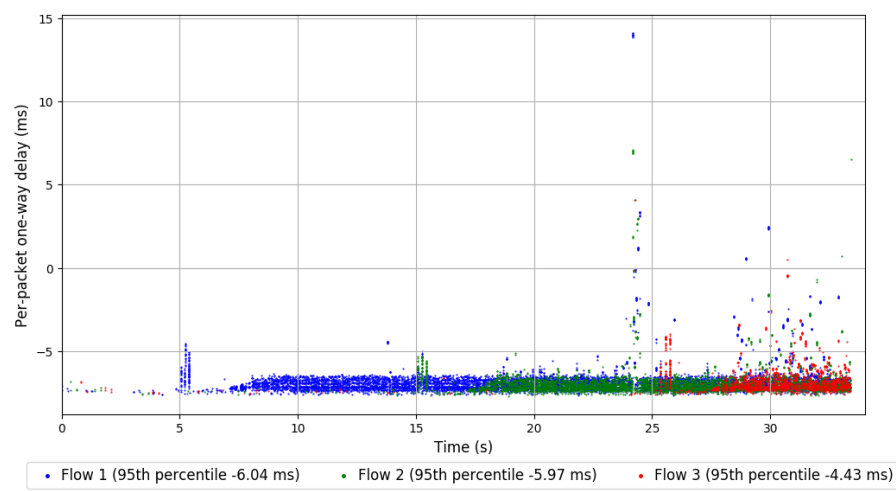
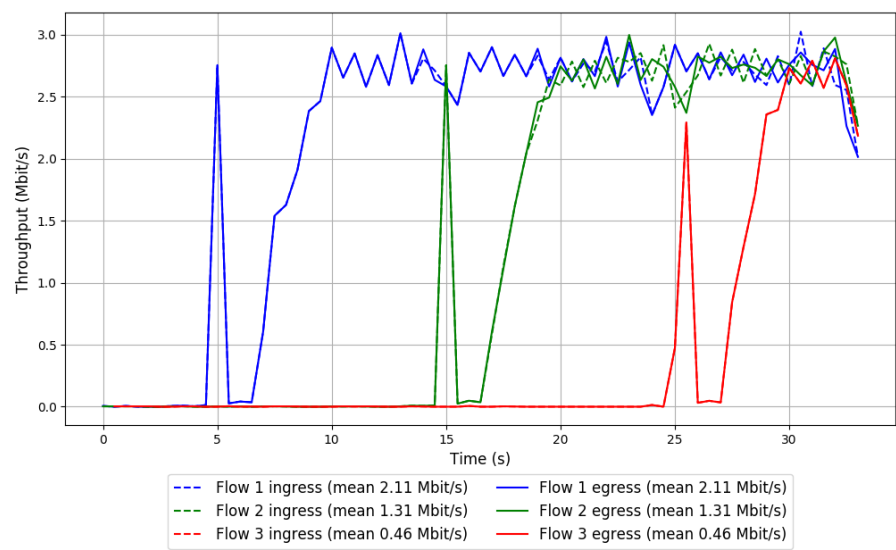
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: -4.433 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-04 23:14:39

End at: 2018-02-04 23:15:09

Local clock offset: -2.558 ms

Remote clock offset: 9.623 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 0.084 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 0.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 0.051 ms

Loss rate: 0.00%

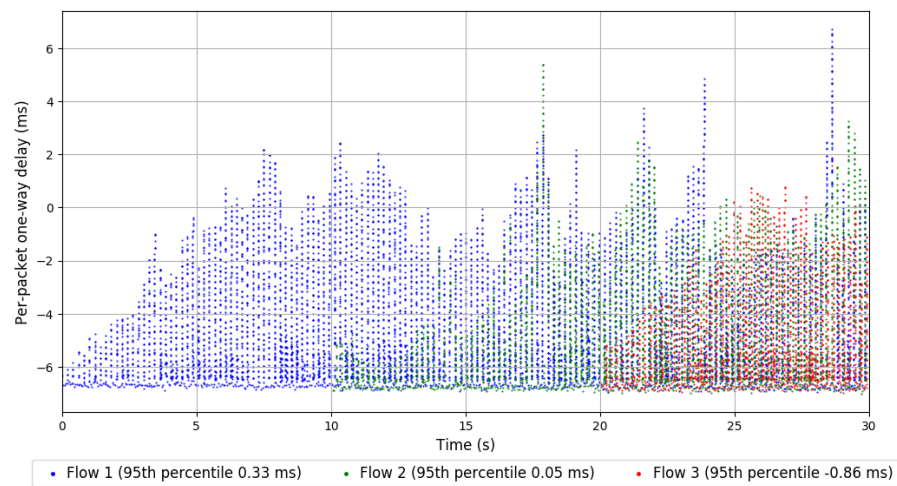
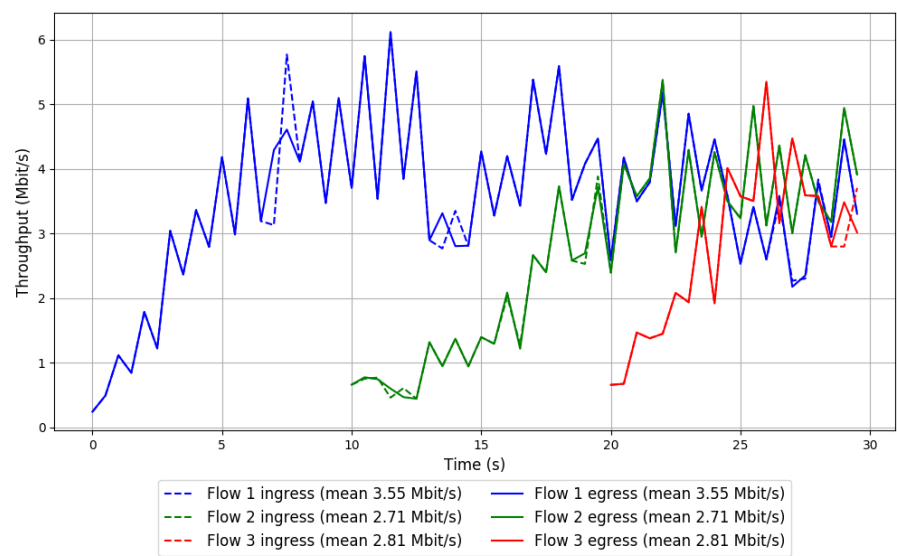
-- Flow 3:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: -0.856 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

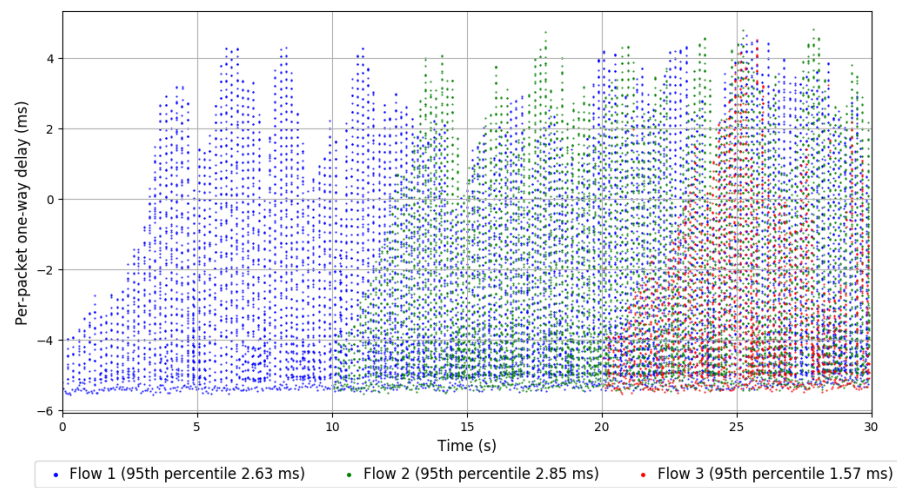
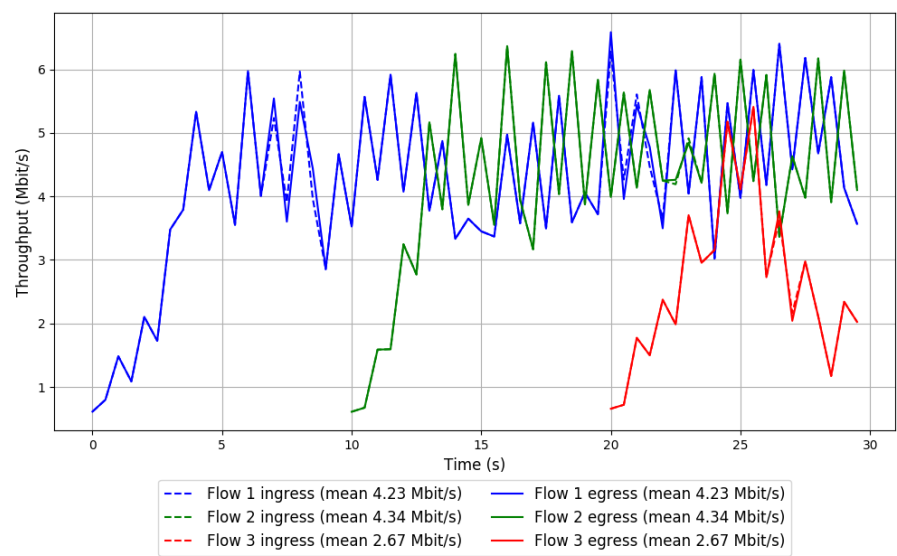


Run 2: Statistics of Sprout

Start at: 2018-02-04 23:39:35
End at: 2018-02-04 23:40:05
Local clock offset: -1.249 ms
Remote clock offset: 11.859 ms

Below is generated by plot.py at 2018-02-05 03:27:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 2.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 2.854 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 1.574 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

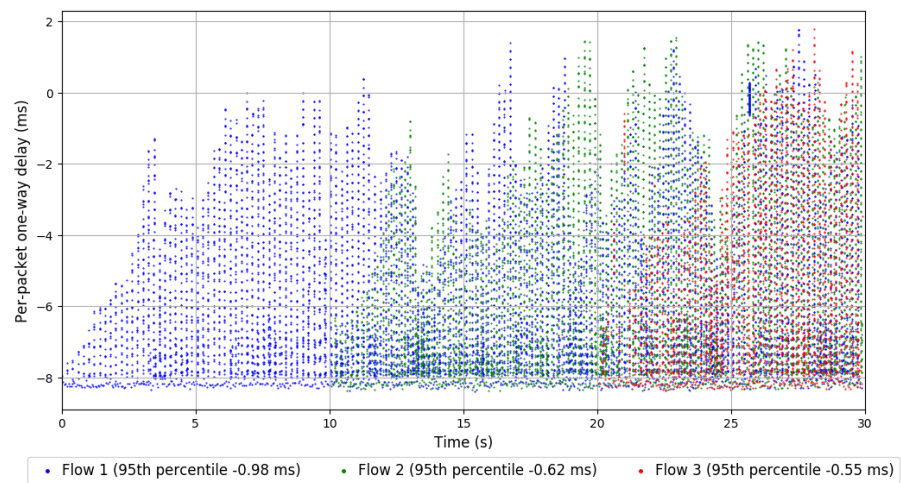
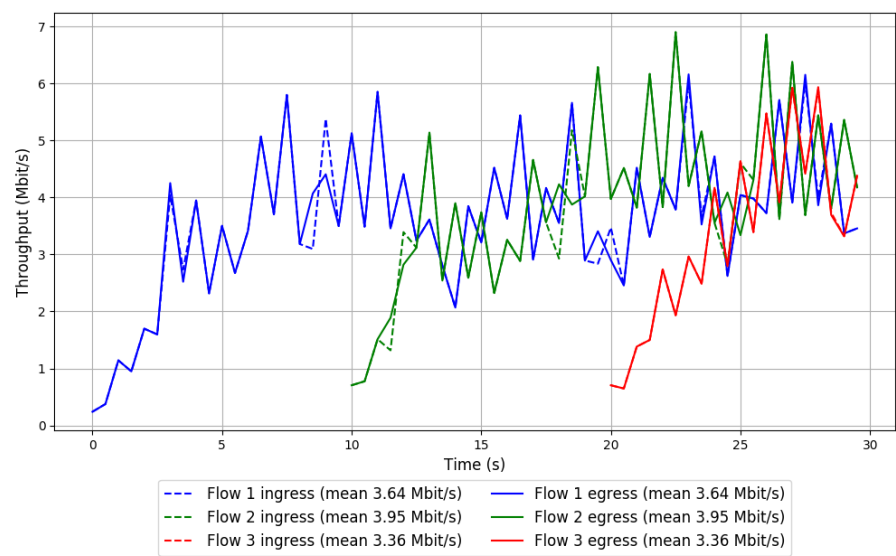


Run 3: Statistics of Sprout

Start at: 2018-02-05 00:04:01
End at: 2018-02-05 00:04:31
Local clock offset: 3.281 ms
Remote clock offset: 7.843 ms

```
# Below is generated by plot.py at 2018-02-05 03:27:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: -0.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: -0.976 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: -0.621 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: -0.546 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

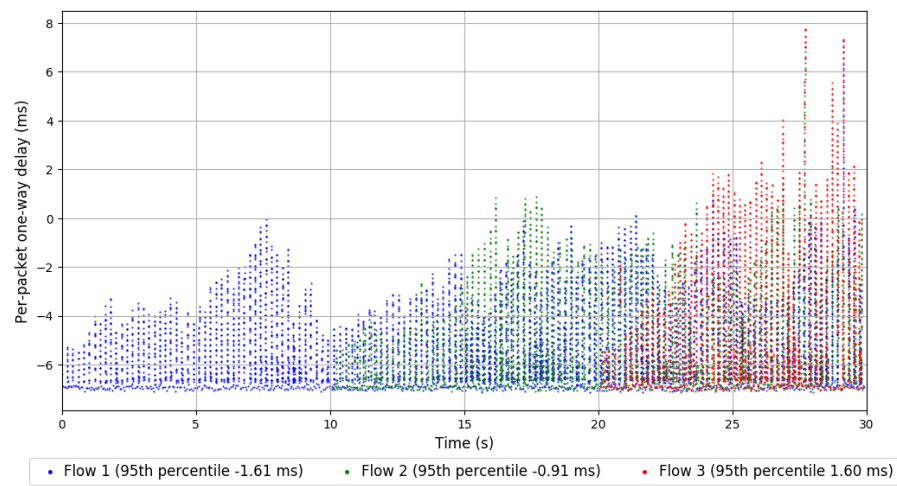
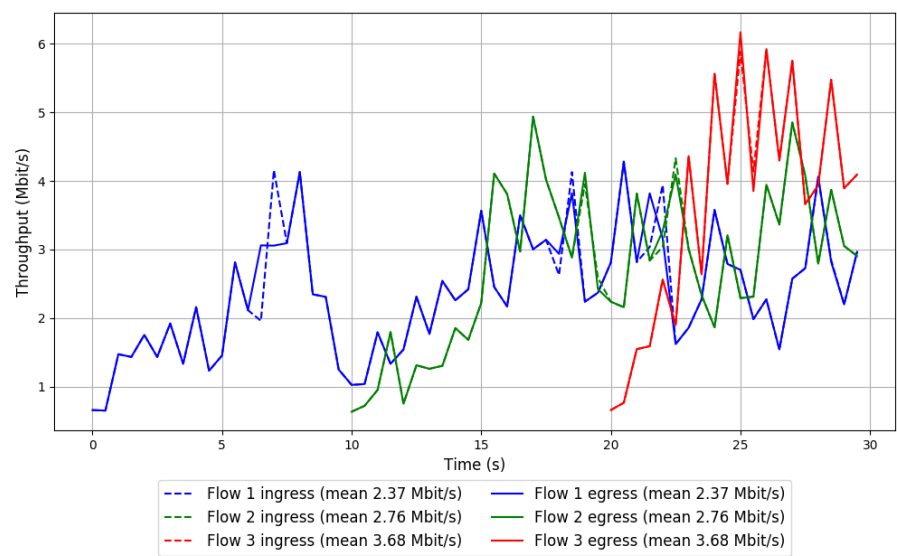


Run 4: Statistics of Sprout

Start at: 2018-02-05 00:29:03
End at: 2018-02-05 00:29:33
Local clock offset: 2.036 ms
Remote clock offset: 2.392 ms

```
# Below is generated by plot.py at 2018-02-05 03:27:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: -0.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: -1.612 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: -0.911 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 1.602 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

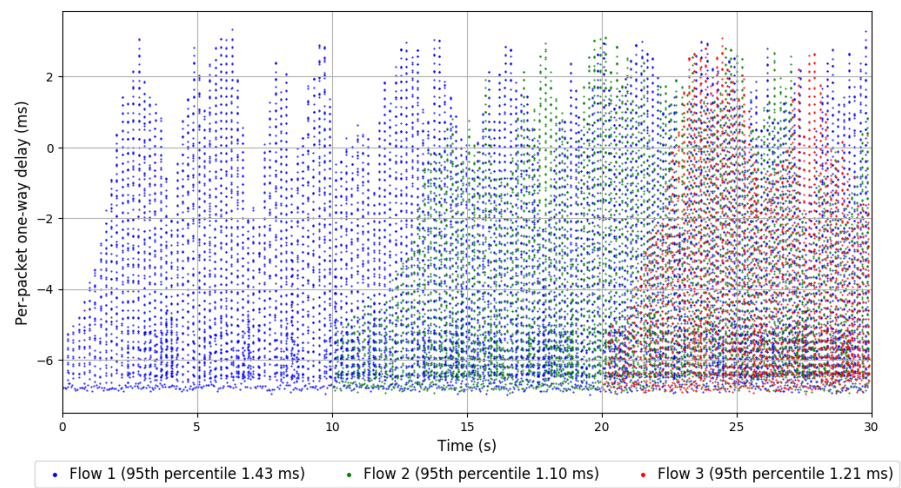
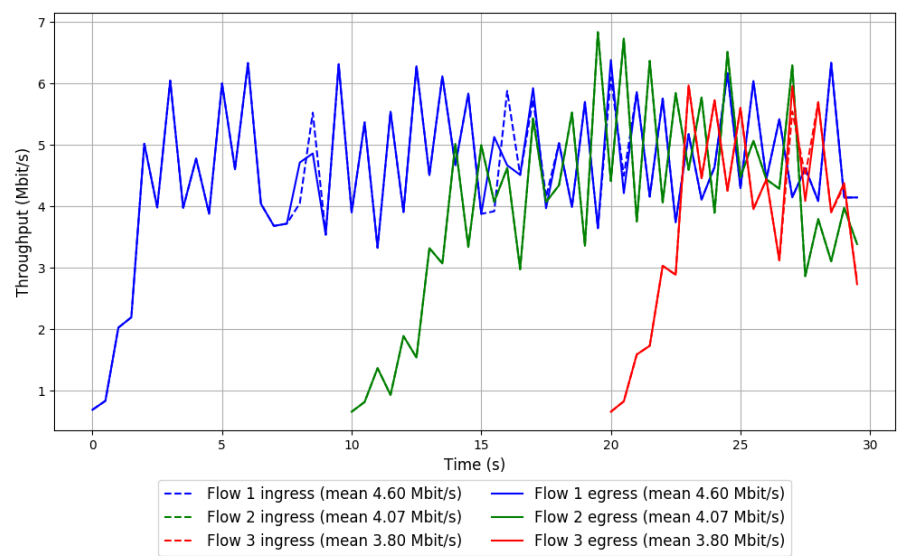


Run 5: Statistics of Sprout

Start at: 2018-02-05 00:54:15
End at: 2018-02-05 00:54:45
Local clock offset: 1.825 ms
Remote clock offset: 1.47 ms

Below is generated by plot.py at 2018-02-05 03:27:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 1.430 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-05 01:18:55

End at: 2018-02-05 01:19:25

Local clock offset: 1.493 ms

Remote clock offset: 1.659 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 0.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 0.836 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 0.492 ms

Loss rate: 0.00%

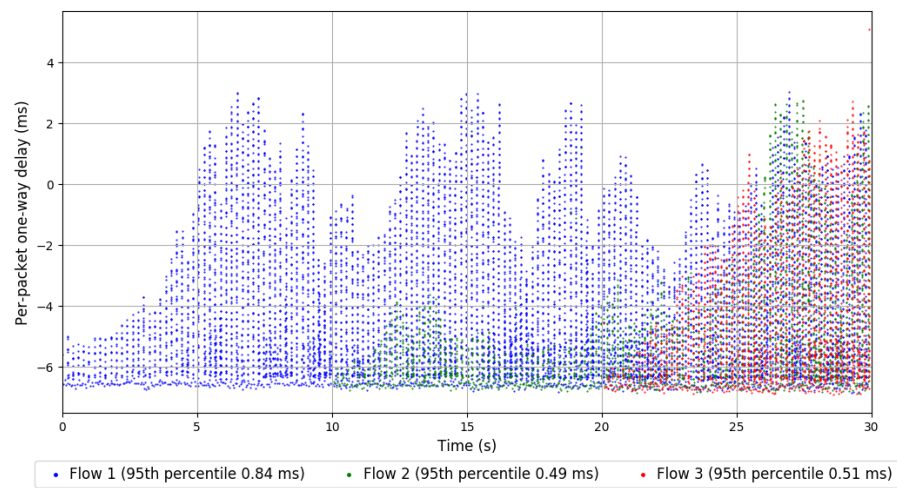
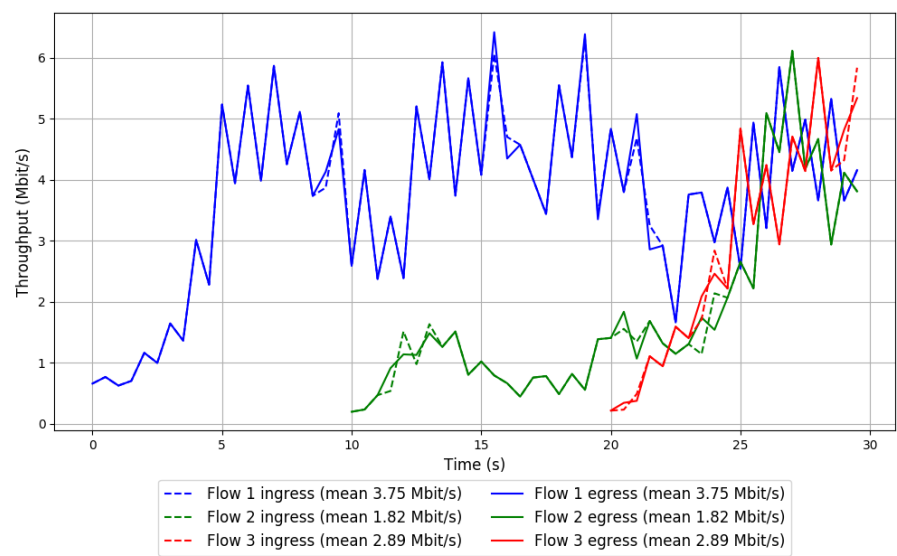
-- Flow 3:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 0.508 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

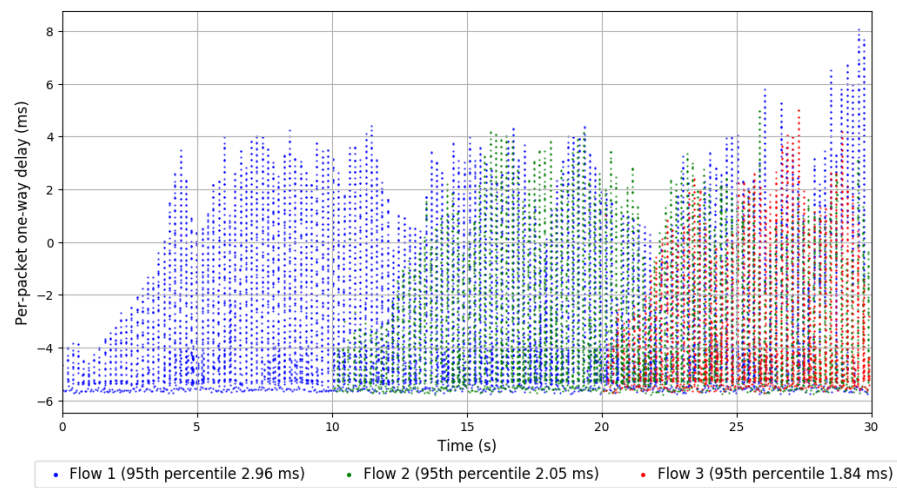
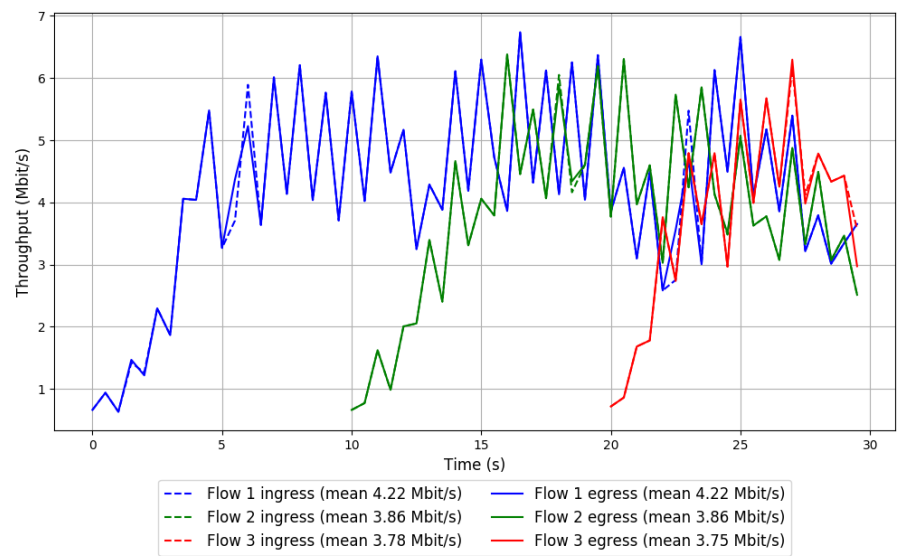


Run 7: Statistics of Sprout

Start at: 2018-02-05 01:43:28
End at: 2018-02-05 01:43:58
Local clock offset: -0.643 ms
Remote clock offset: 1.804 ms

Below is generated by plot.py at 2018-02-05 03:27:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 2.573 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 2.959 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 2.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 1.840 ms
Loss rate: 0.79%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-05 02:08:42

End at: 2018-02-05 02:09:12

Local clock offset: 3.199 ms

Remote clock offset: 1.354 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: -0.264 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: -0.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: -0.184 ms

Loss rate: 0.00%

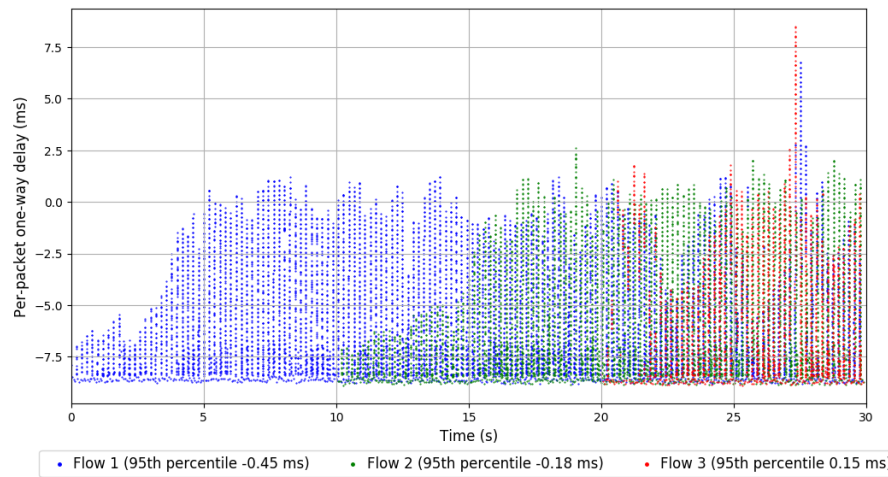
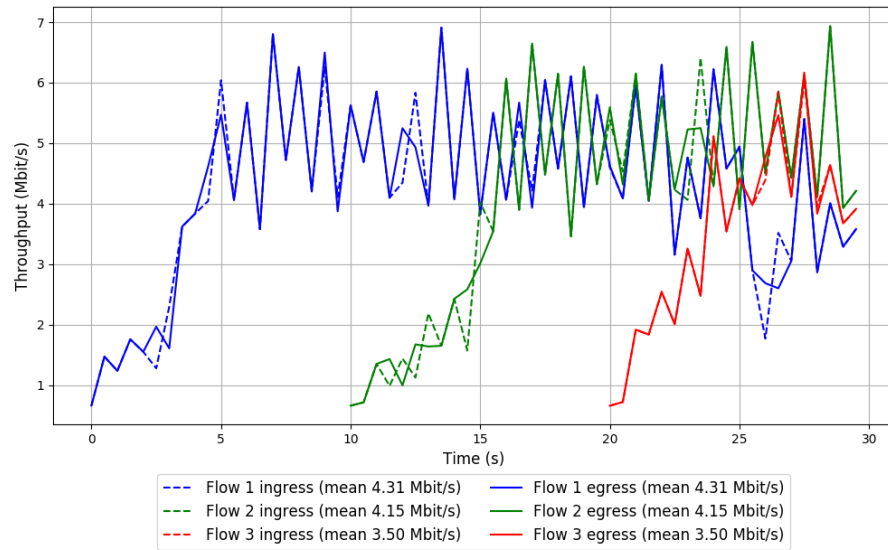
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 0.147 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

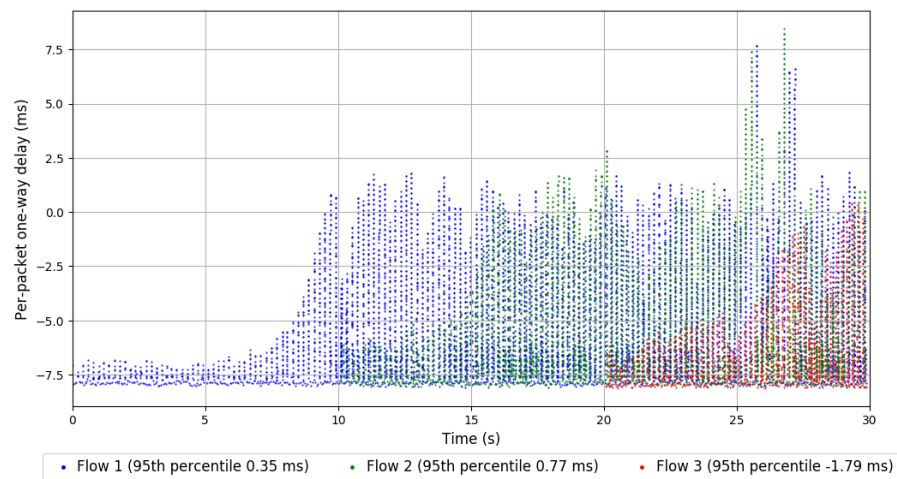
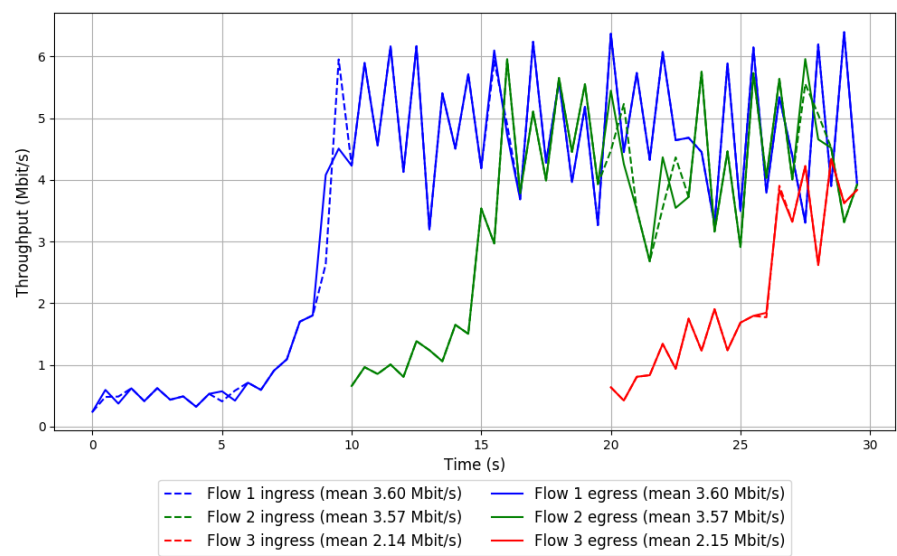


Run 9: Statistics of Sprout

Start at: 2018-02-05 02:33:19
End at: 2018-02-05 02:33:49
Local clock offset: 0.863 ms
Remote clock offset: 0.301 ms

```
# Below is generated by plot.py at 2018-02-05 03:27:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 0.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 0.346 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 0.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: -1.794 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-05 02:58:15

End at: 2018-02-05 02:58:45

Local clock offset: 2.593 ms

Remote clock offset: 6.117 ms

Below is generated by plot.py at 2018-02-05 03:27:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 3.157 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 2.196 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 3.885 ms

Loss rate: 0.00%

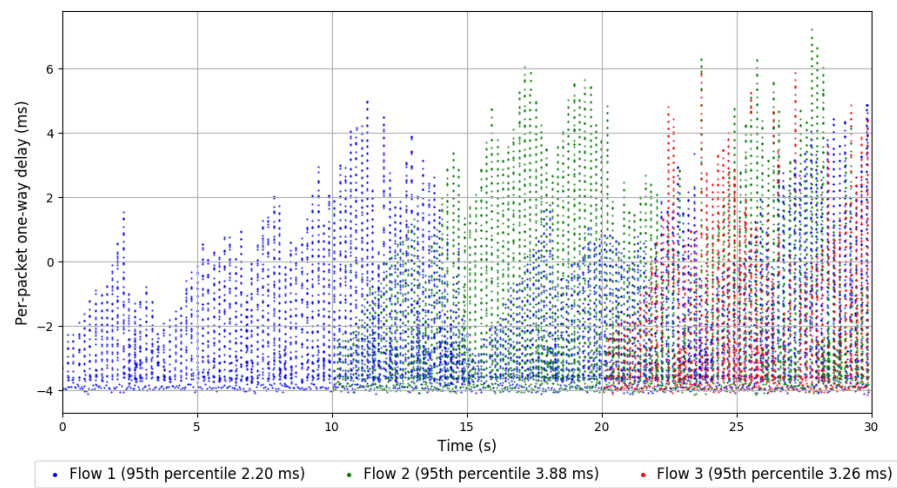
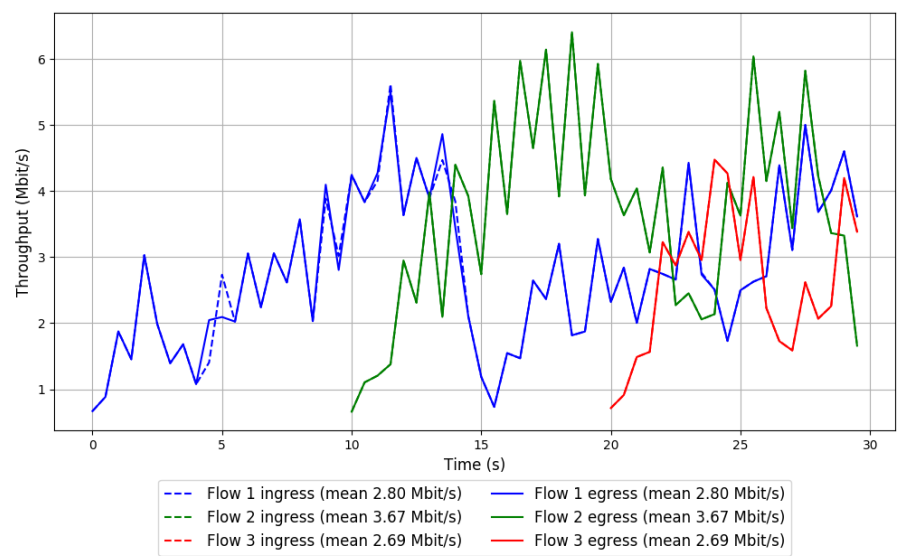
-- Flow 3:

Average throughput: 2.69 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

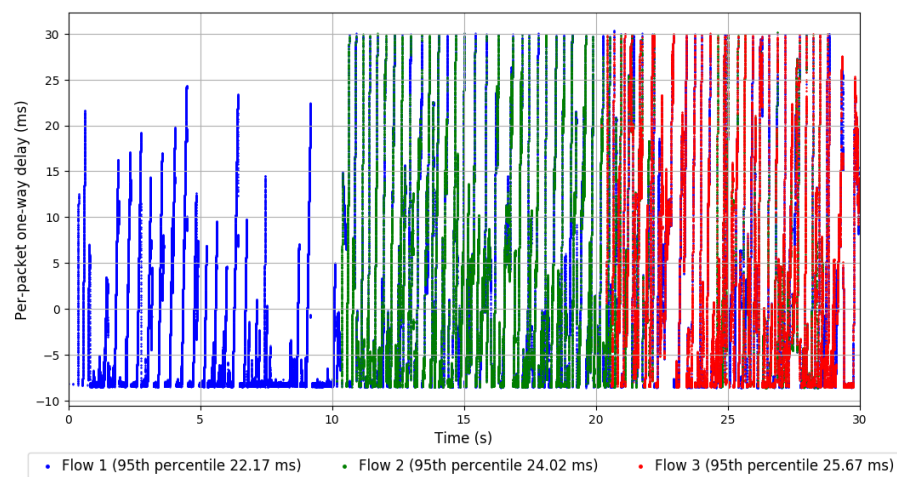
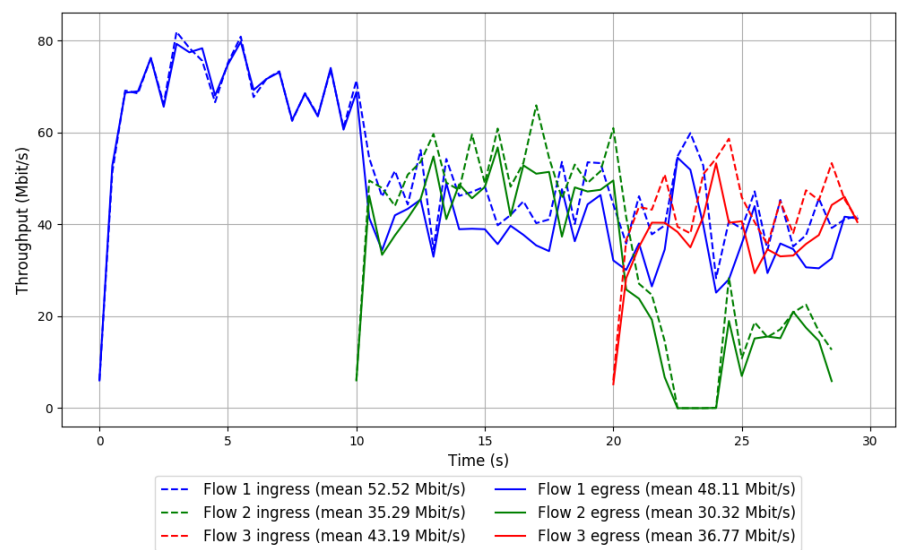


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-04 22:57:51
End at: 2018-02-04 22:58:21
Local clock offset: 1.893 ms
Remote clock offset: 9.647 ms

# Below is generated by plot.py at 2018-02-05 03:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.31 Mbit/s
95th percentile per-packet one-way delay: 23.446 ms
Loss rate: 10.89%
-- Flow 1:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 22.169 ms
Loss rate: 8.34%
-- Flow 2:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 24.022 ms
Loss rate: 14.45%
-- Flow 3:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 25.672 ms
Loss rate: 14.72%
```

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

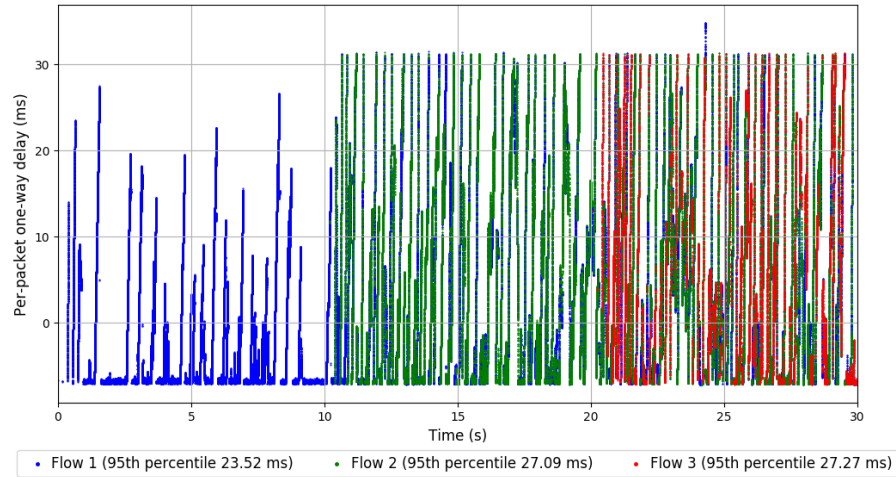
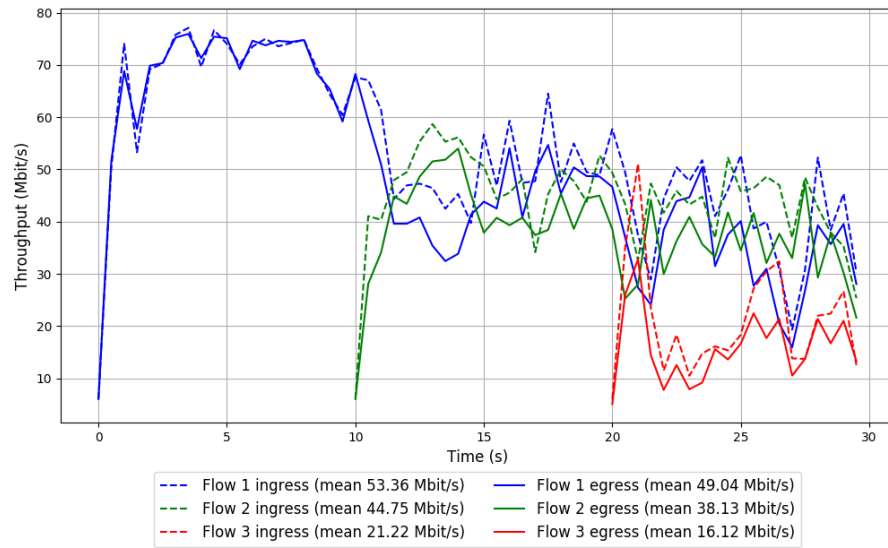


Run 2: Statistics of TaoVA-100x

Start at: 2018-02-04 23:22:53
End at: 2018-02-04 23:23:23
Local clock offset: 1.664 ms
Remote clock offset: 13.931 ms

Below is generated by plot.py at 2018-02-05 03:29:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.65 Mbit/s
95th percentile per-packet one-way delay: 25.402 ms
Loss rate: 11.55%
-- Flow 1:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 23.525 ms
Loss rate: 8.10%
-- Flow 2:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 27.091 ms
Loss rate: 14.76%
-- Flow 3:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 27.271 ms
Loss rate: 24.21%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-04 23:47:37

End at: 2018-02-04 23:48:07

Local clock offset: -1.475 ms

Remote clock offset: 9.898 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 27.622 ms

Loss rate: 8.57%

-- Flow 1:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 26.590 ms

Loss rate: 6.41%

-- Flow 2:

Average throughput: 35.08 Mbit/s

95th percentile per-packet one-way delay: 29.254 ms

Loss rate: 12.23%

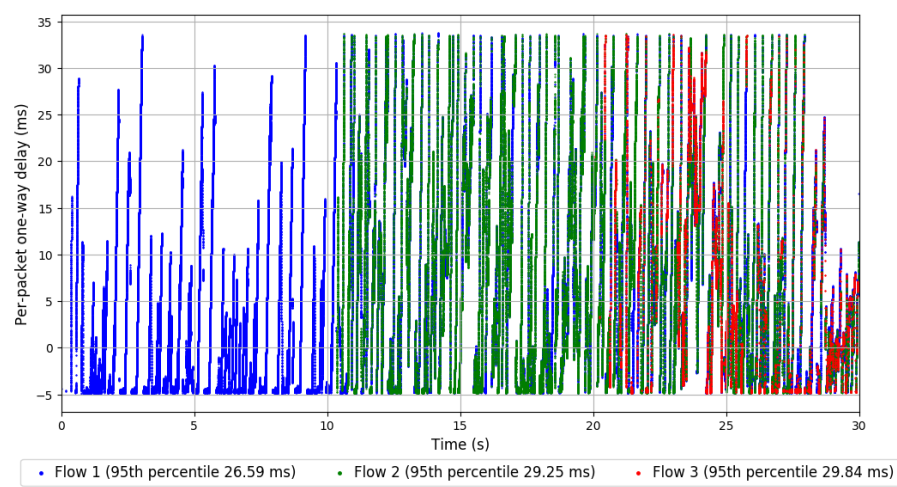
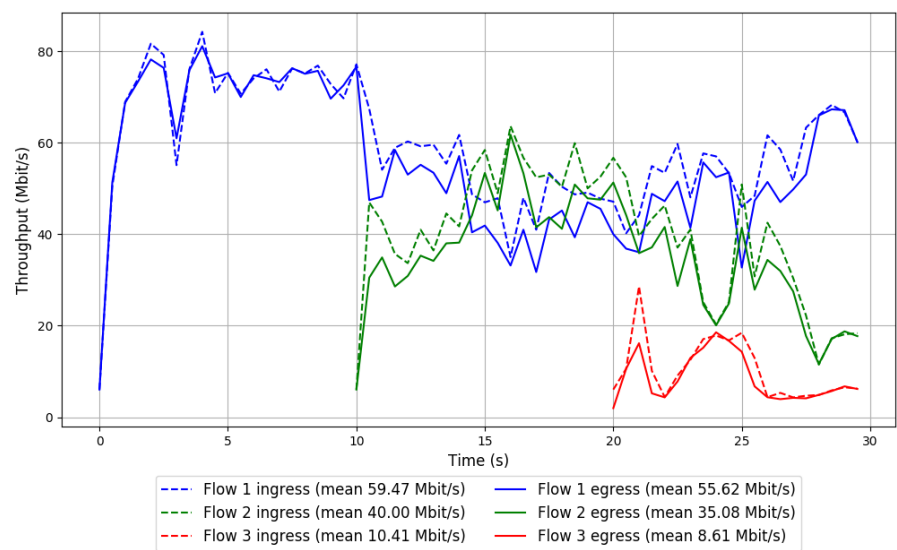
-- Flow 3:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 29.845 ms

Loss rate: 17.45%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-05 00:11:54

End at: 2018-02-05 00:12:24

Local clock offset: 2.641 ms

Remote clock offset: 6.906 ms

Below is generated by plot.py at 2018-02-05 03:29:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 25.454 ms

Loss rate: 11.82%

-- Flow 1:

Average throughput: 52.13 Mbit/s

95th percentile per-packet one-way delay: 24.029 ms

Loss rate: 8.83%

-- Flow 2:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 27.794 ms

Loss rate: 15.38%

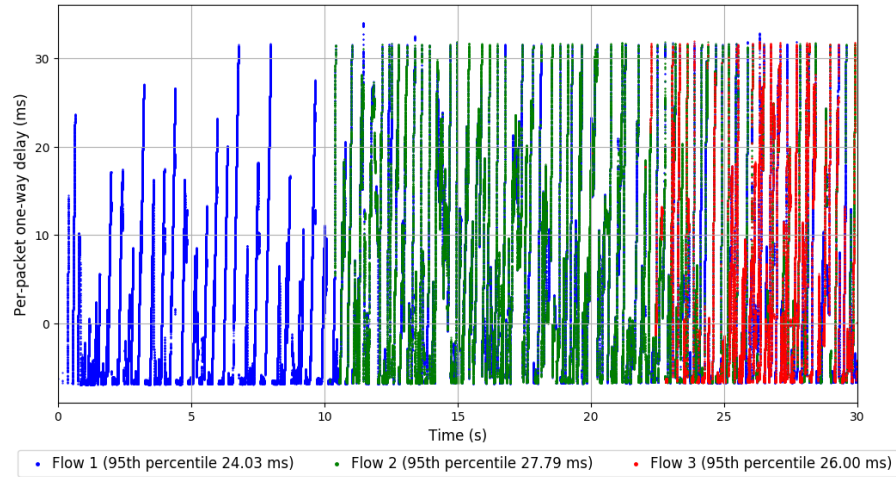
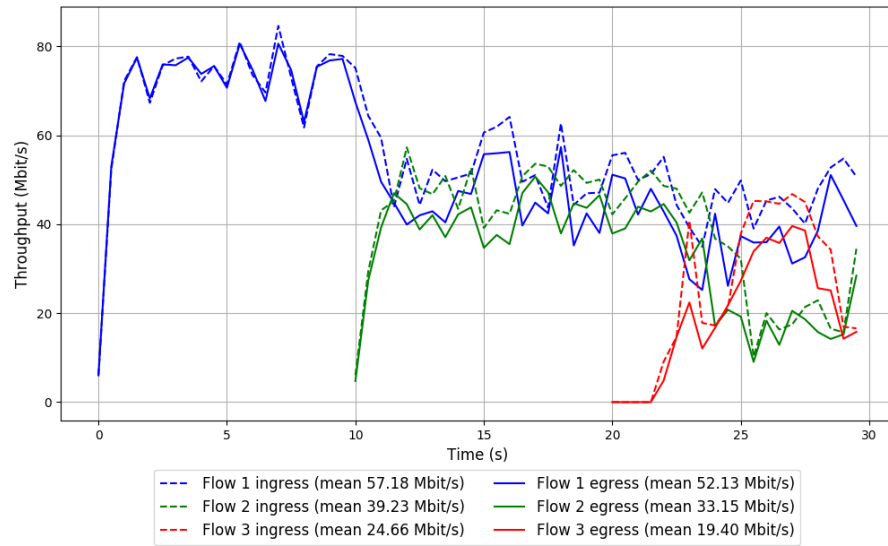
-- Flow 3:

Average throughput: 19.40 Mbit/s

95th percentile per-packet one-way delay: 26.001 ms

Loss rate: 21.46%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-05 00:37:06

End at: 2018-02-05 00:37:36

Local clock offset: 3.382 ms

Remote clock offset: 1.586 ms

Below is generated by plot.py at 2018-02-05 03:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 24.096 ms

Loss rate: 12.98%

-- Flow 1:

Average throughput: 51.08 Mbit/s

95th percentile per-packet one-way delay: 22.820 ms

Loss rate: 9.10%

-- Flow 2:

Average throughput: 30.46 Mbit/s

95th percentile per-packet one-way delay: 25.538 ms

Loss rate: 17.59%

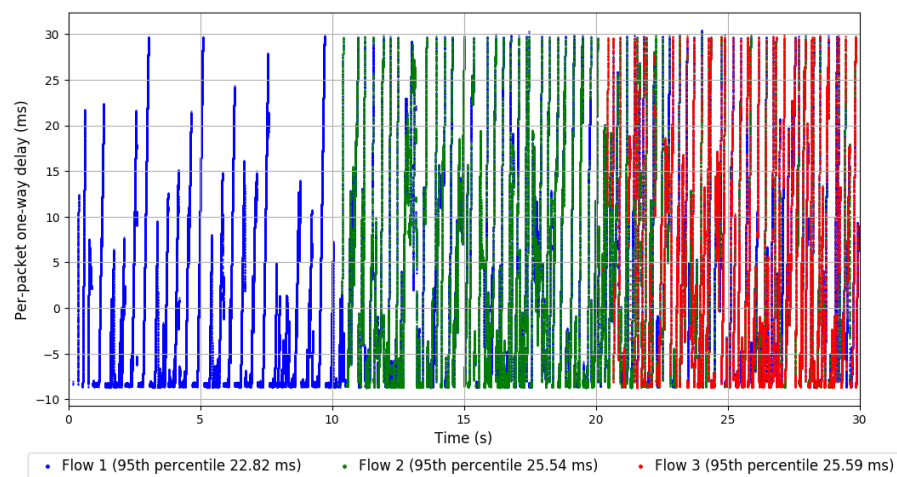
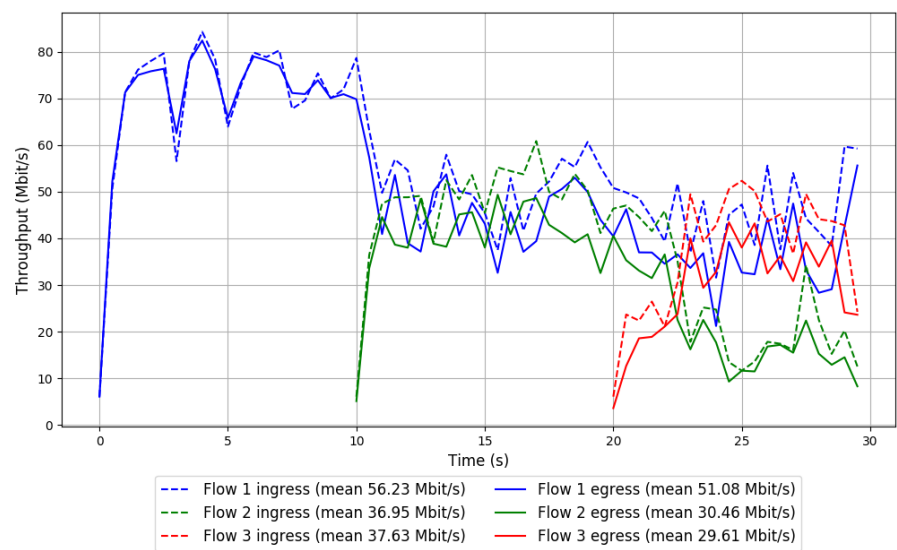
-- Flow 3:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 25.593 ms

Loss rate: 21.42%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-05 01:02:19

End at: 2018-02-05 01:02:49

Local clock offset: 0.081 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2018-02-05 03:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.09 Mbit/s

95th percentile per-packet one-way delay: 27.458 ms

Loss rate: 12.61%

-- Flow 1:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 26.260 ms

Loss rate: 8.92%

-- Flow 2:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 28.711 ms

Loss rate: 16.63%

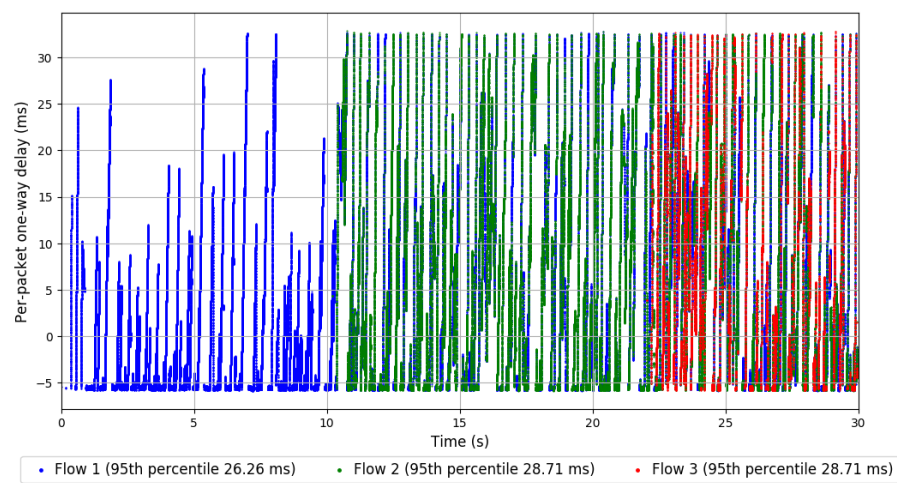
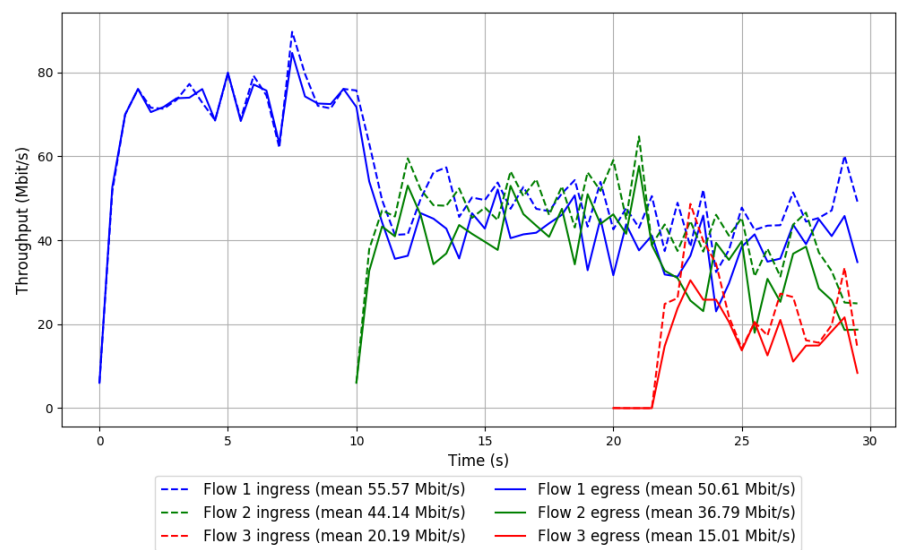
-- Flow 3:

Average throughput: 15.01 Mbit/s

95th percentile per-packet one-way delay: 28.708 ms

Loss rate: 25.58%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-05 01:26:46

End at: 2018-02-05 01:27:16

Local clock offset: 2.356 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2018-02-05 03:29:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.83 Mbit/s

95th percentile per-packet one-way delay: 23.382 ms

Loss rate: 11.85%

-- Flow 1:

Average throughput: 46.64 Mbit/s

95th percentile per-packet one-way delay: 22.495 ms

Loss rate: 8.77%

-- Flow 2:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 24.392 ms

Loss rate: 16.37%

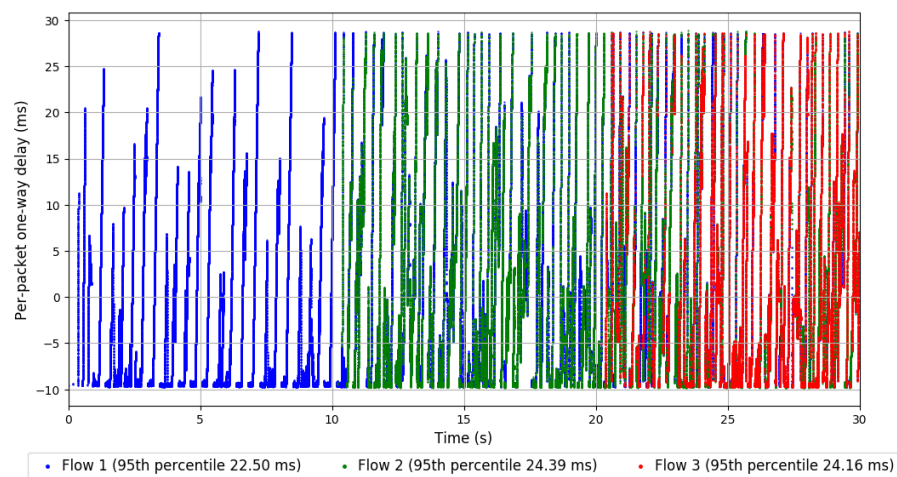
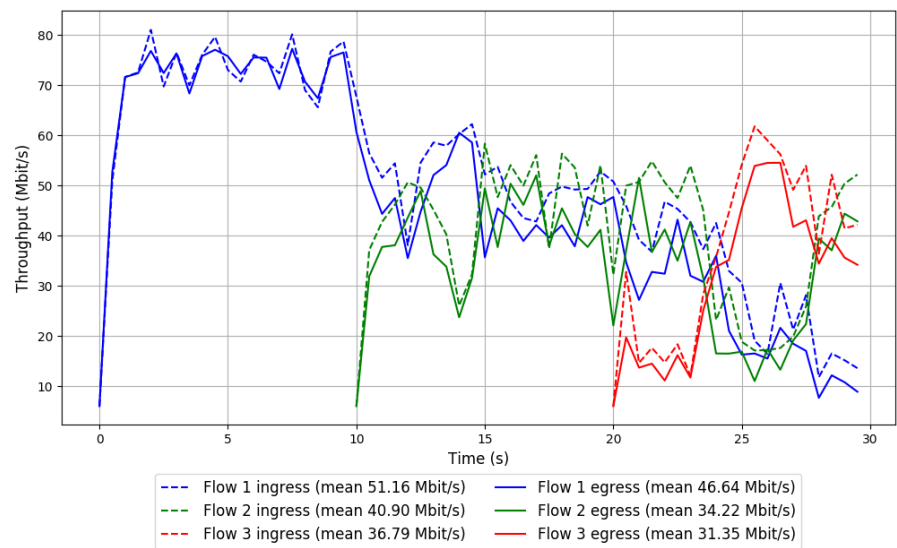
-- Flow 3:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 24.158 ms

Loss rate: 14.67%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-05 01:51:43

End at: 2018-02-05 01:52:13

Local clock offset: 0.112 ms

Remote clock offset: 2.832 ms

Below is generated by plot.py at 2018-02-05 03:29:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 27.990 ms

Loss rate: 12.69%

-- Flow 1:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 27.180 ms

Loss rate: 9.05%

-- Flow 2:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 28.706 ms

Loss rate: 16.43%

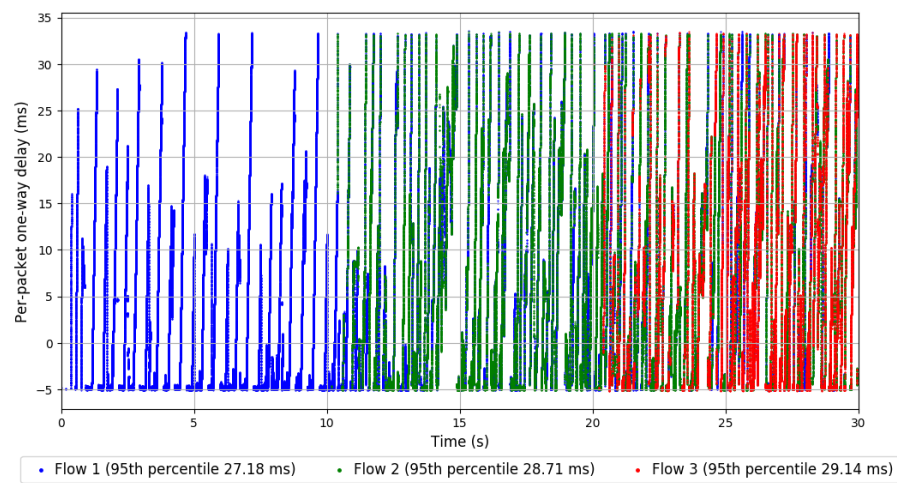
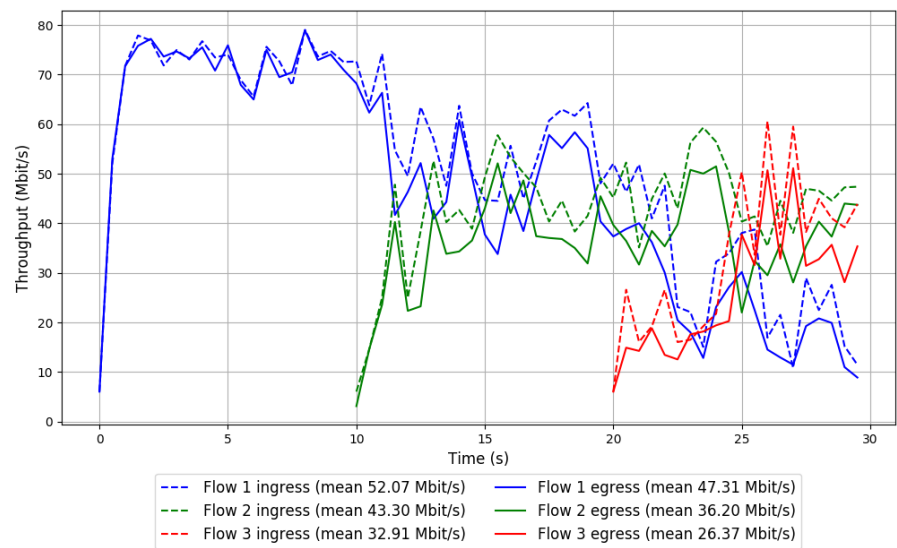
-- Flow 3:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 29.144 ms

Loss rate: 20.15%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-05 02:16:46

End at: 2018-02-05 02:17:16

Local clock offset: 2.105 ms

Remote clock offset: 3.12 ms

Below is generated by plot.py at 2018-02-05 03:31:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 26.307 ms

Loss rate: 11.98%

-- Flow 1:

Average throughput: 52.42 Mbit/s

95th percentile per-packet one-way delay: 24.934 ms

Loss rate: 8.70%

-- Flow 2:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 27.932 ms

Loss rate: 16.60%

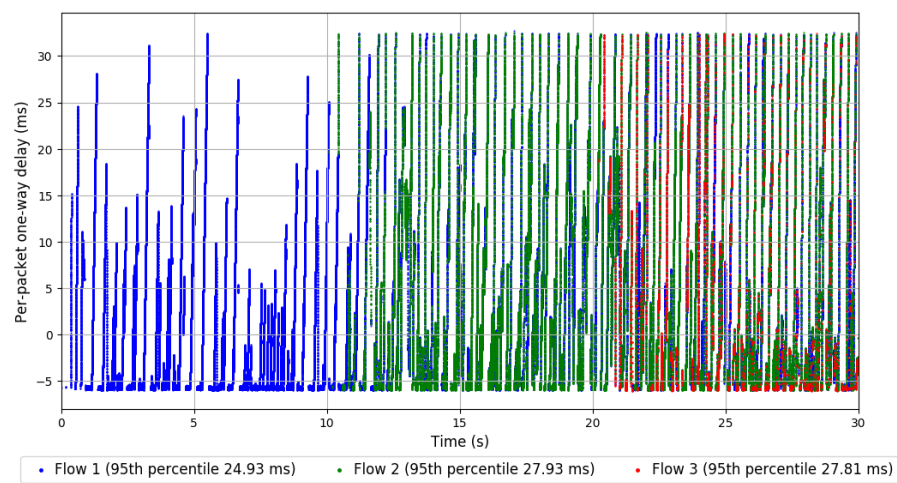
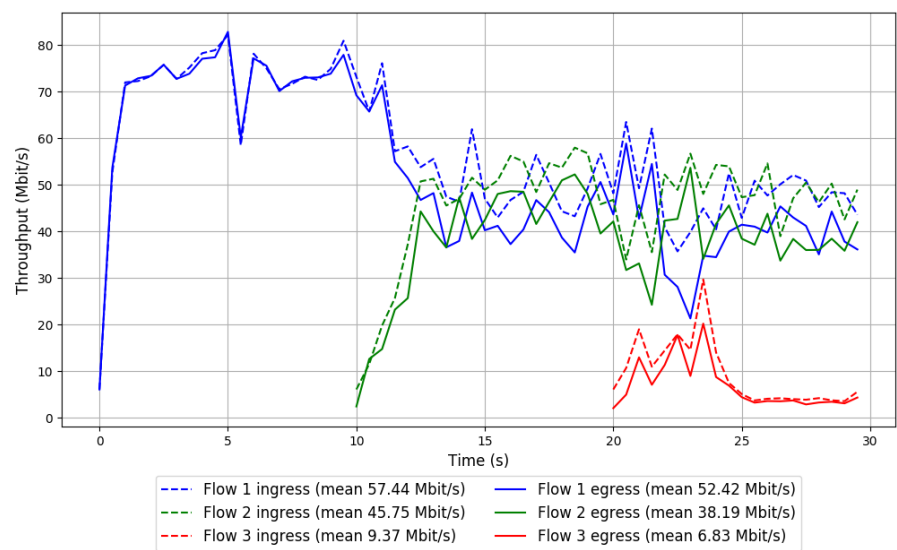
-- Flow 3:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 27.807 ms

Loss rate: 27.08%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-05 02:41:14

End at: 2018-02-05 02:41:44

Local clock offset: 3.356 ms

Remote clock offset: 1.653 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.73 Mbit/s

95th percentile per-packet one-way delay: 22.794 ms

Loss rate: 12.14%

-- Flow 1:

Average throughput: 40.99 Mbit/s

95th percentile per-packet one-way delay: 19.467 ms

Loss rate: 6.80%

-- Flow 2:

Average throughput: 42.12 Mbit/s

95th percentile per-packet one-way delay: 24.571 ms

Loss rate: 14.13%

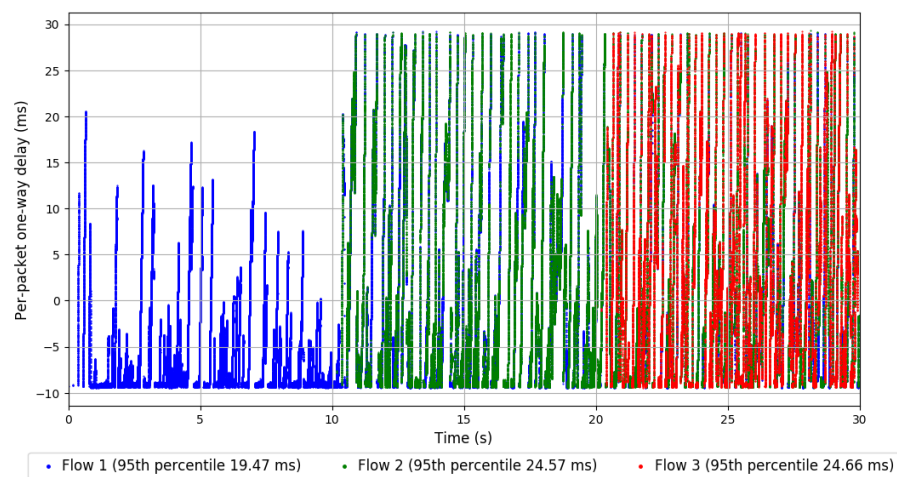
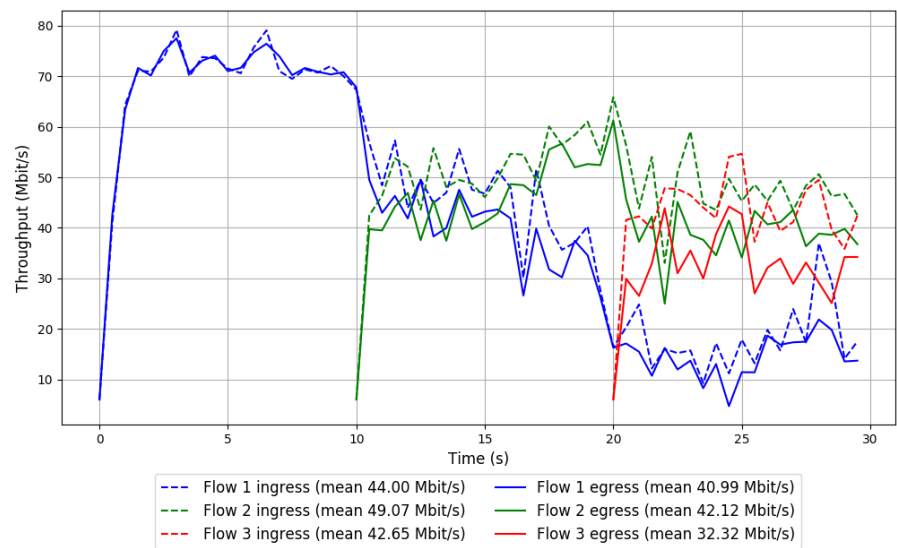
-- Flow 3:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 24.655 ms

Loss rate: 24.23%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-04 22:53:52

End at: 2018-02-04 22:54:22

Local clock offset: 1.168 ms

Remote clock offset: 8.934 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: -2.193 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: -2.870 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: -1.023 ms

Loss rate: 0.46%

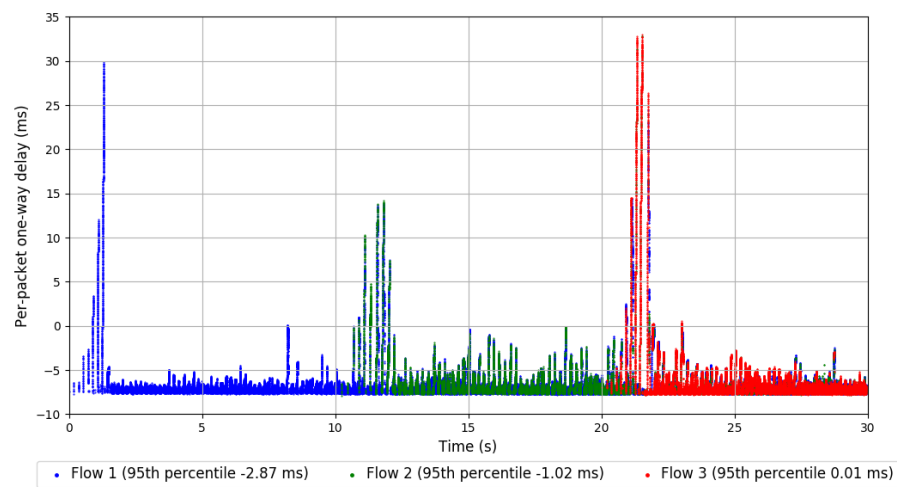
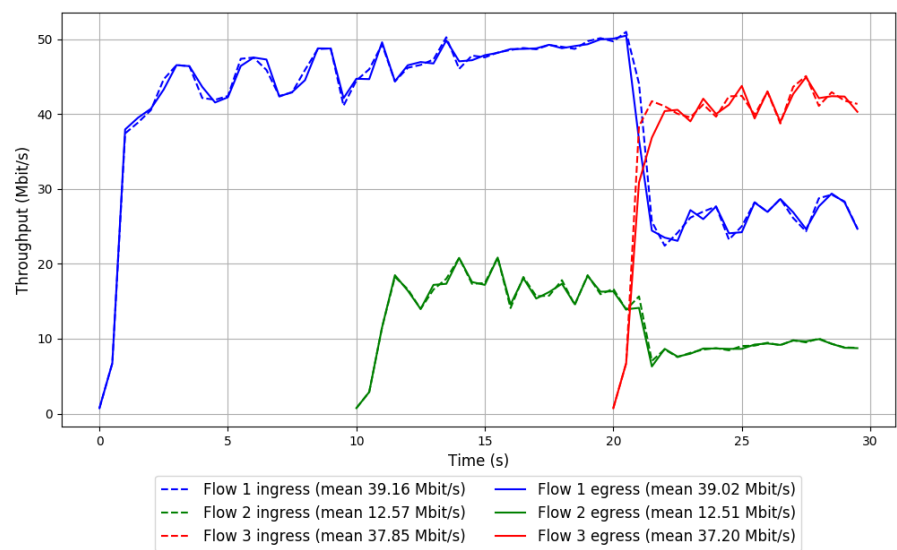
-- Flow 3:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 0.009 ms

Loss rate: 1.73%

Run 1: Report of TCP Vegas — Data Link

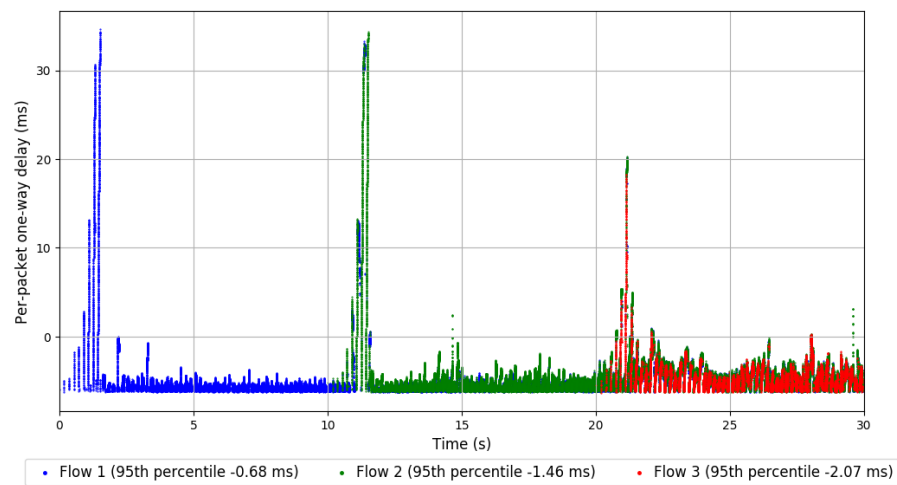
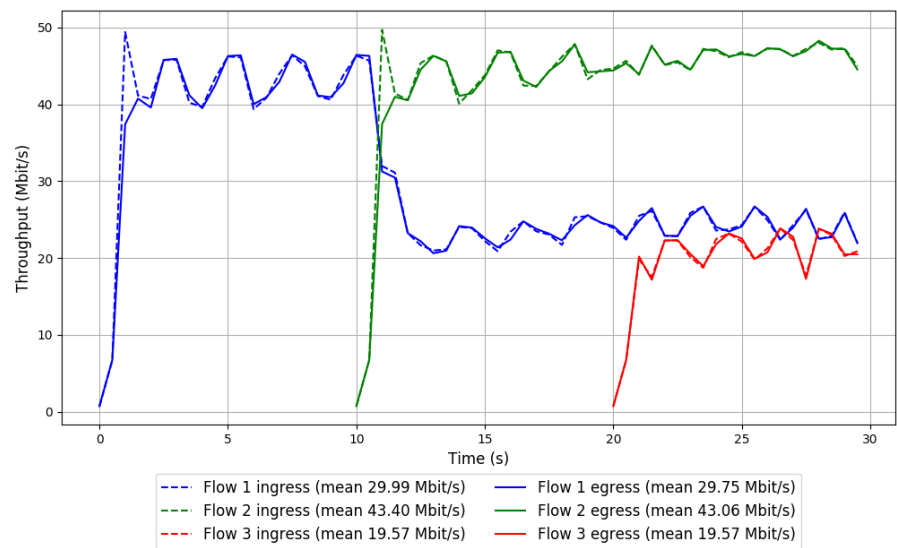


Run 2: Statistics of TCP Vegas

Start at: 2018-02-04 23:18:49
End at: 2018-02-04 23:19:19
Local clock offset: -1.482 ms
Remote clock offset: 11.529 ms

Below is generated by plot.py at 2018-02-05 03:31:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.91 Mbit/s
95th percentile per-packet one-way delay: -1.155 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: -0.680 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 43.06 Mbit/s
95th percentile per-packet one-way delay: -1.460 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: -2.072 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

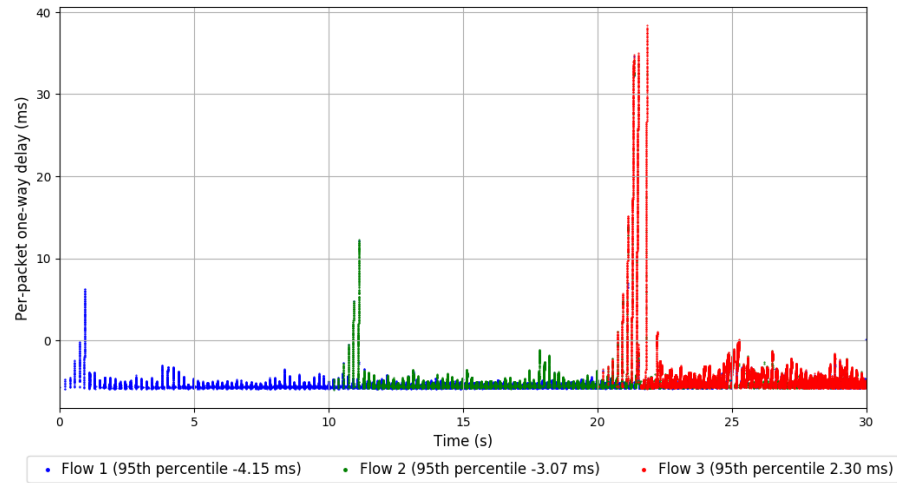
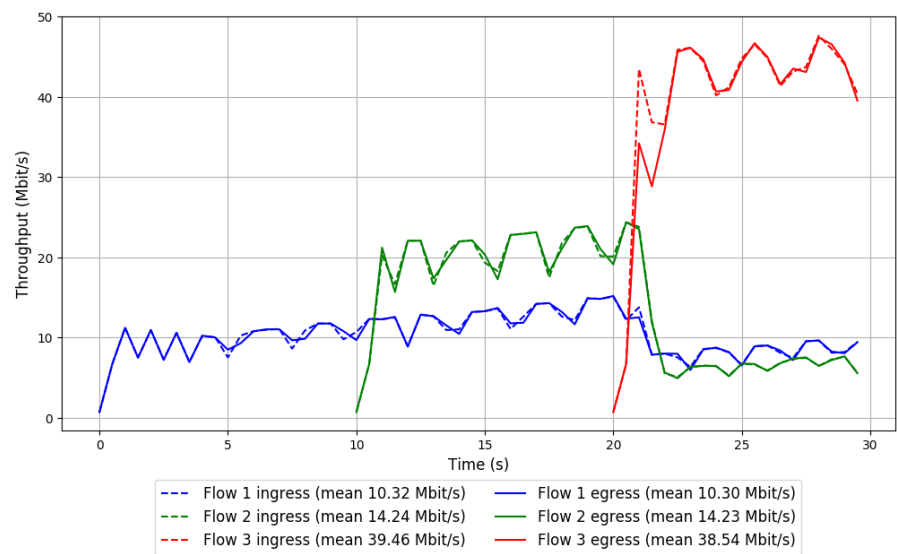


Run 3: Statistics of TCP Vegas

Start at: 2018-02-04 23:43:35
End at: 2018-02-04 23:44:05
Local clock offset: -1.12 ms
Remote clock offset: 10.124 ms

Below is generated by plot.py at 2018-02-05 03:31:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: -2.143 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: -4.151 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 14.23 Mbit/s
95th percentile per-packet one-way delay: -3.072 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 2.302 ms
Loss rate: 2.32%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-05 00:07:57

End at: 2018-02-05 00:08:27

Local clock offset: 2.977 ms

Remote clock offset: 5.956 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.76 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 38.80 Mbit/s

95th percentile per-packet one-way delay: 1.795 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 33.04 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 1.46%

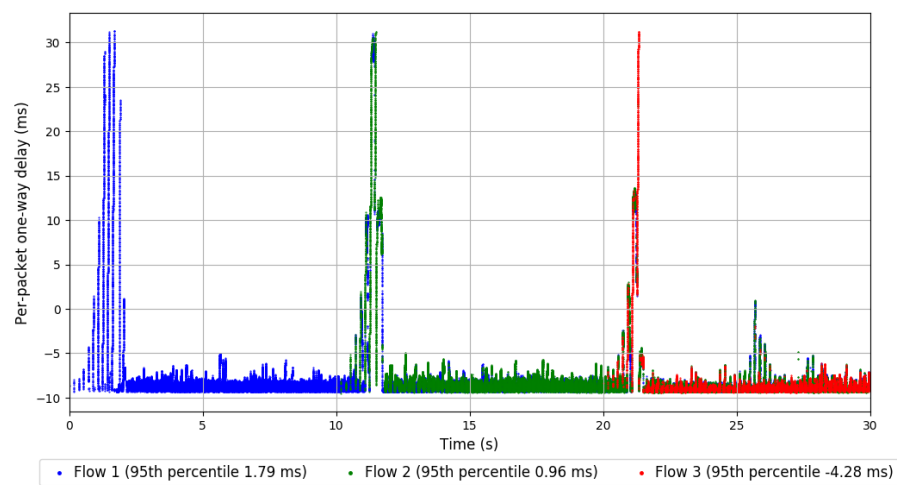
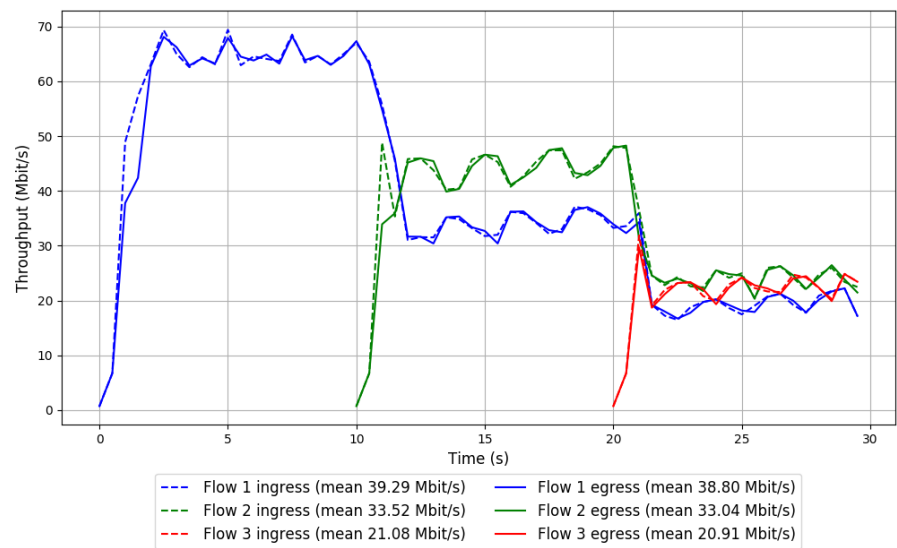
-- Flow 3:

Average throughput: 20.91 Mbit/s

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

Loss rate: 0.80%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-05 00:33:10

End at: 2018-02-05 00:33:40

Local clock offset: 2.908 ms

Remote clock offset: 4.182 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 10.273 ms

Loss rate: 3.44%

-- Flow 1:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 6.678 ms

Loss rate: 2.73%

-- Flow 2:

Average throughput: 16.16 Mbit/s

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

Loss rate: 3.27%

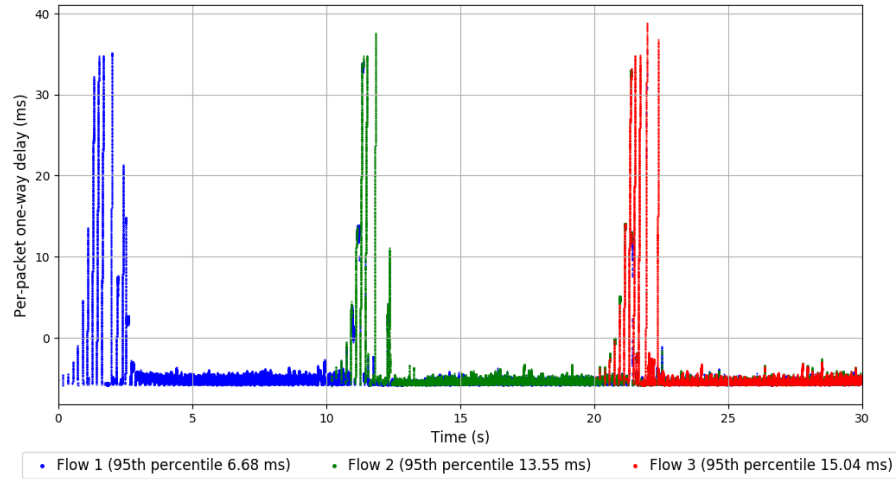
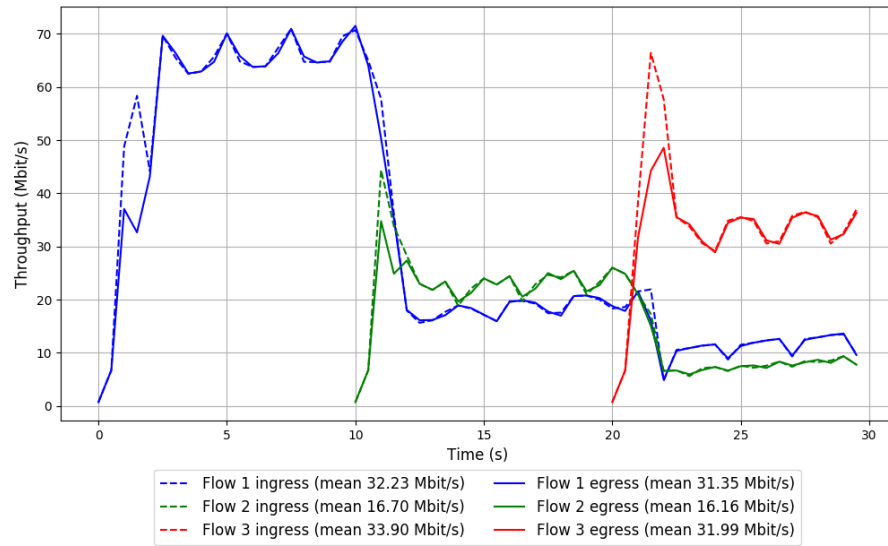
-- Flow 3:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 15.038 ms

Loss rate: 5.63%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-05 00:58:16

End at: 2018-02-05 00:58:46

Local clock offset: 0.46 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 29.57 Mbit/s

95th percentile per-packet one-way delay: 1.582 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 33.39 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 1.15%

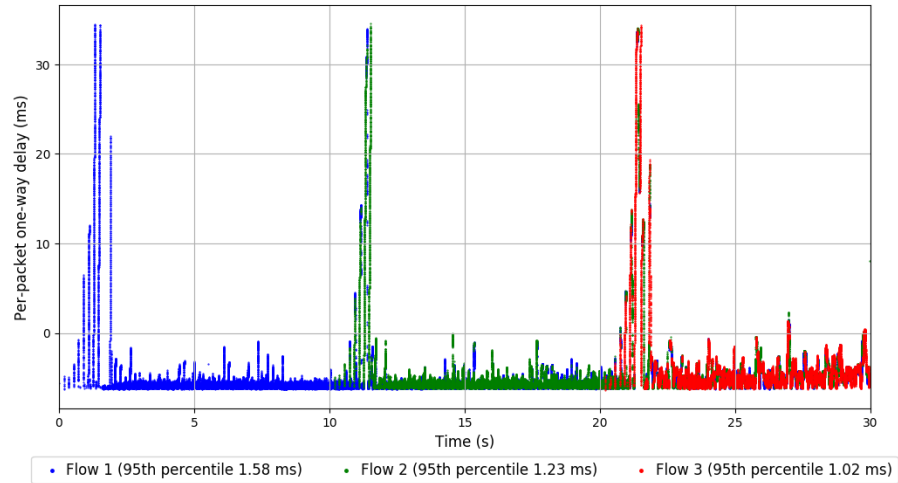
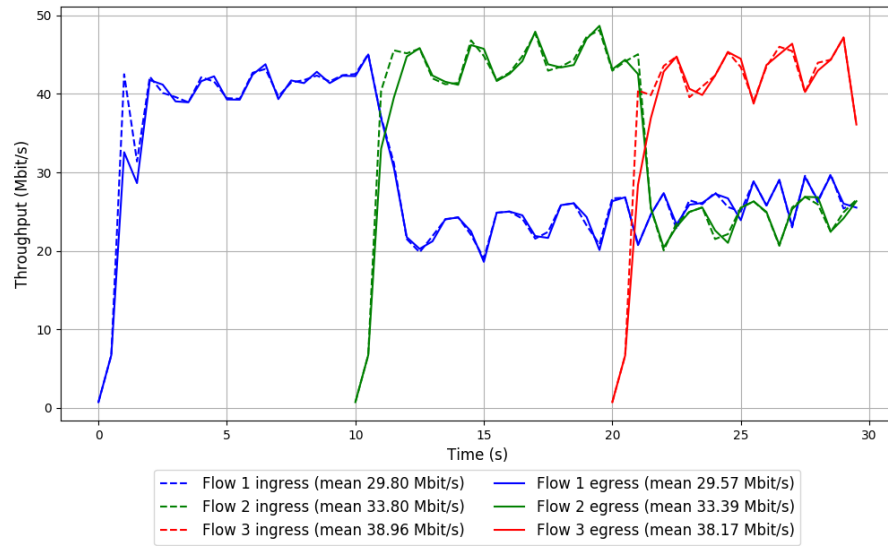
-- Flow 3:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 2.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-05 01:22:49

End at: 2018-02-05 01:23:19

Local clock offset: 0.291 ms

Remote clock offset: 2.489 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.89 Mbit/s

95th percentile per-packet one-way delay: 6.574 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 9.002 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 33.18 Mbit/s

95th percentile per-packet one-way delay: 5.826 ms

Loss rate: 1.50%

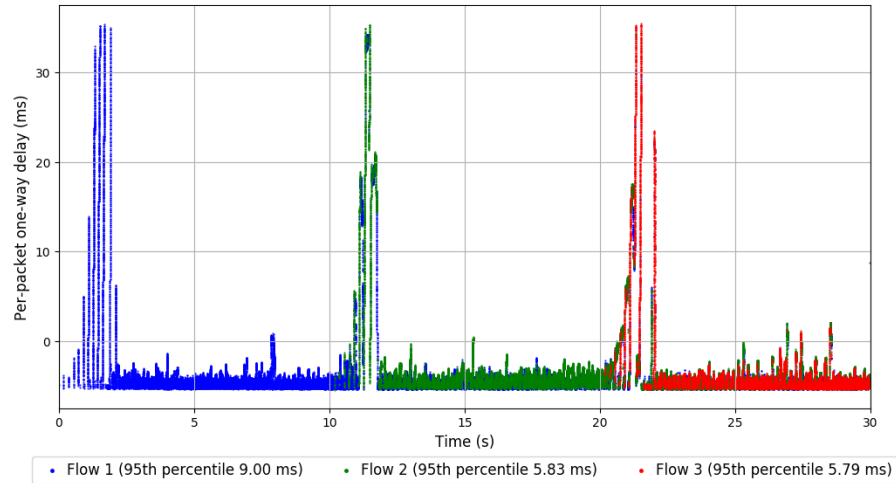
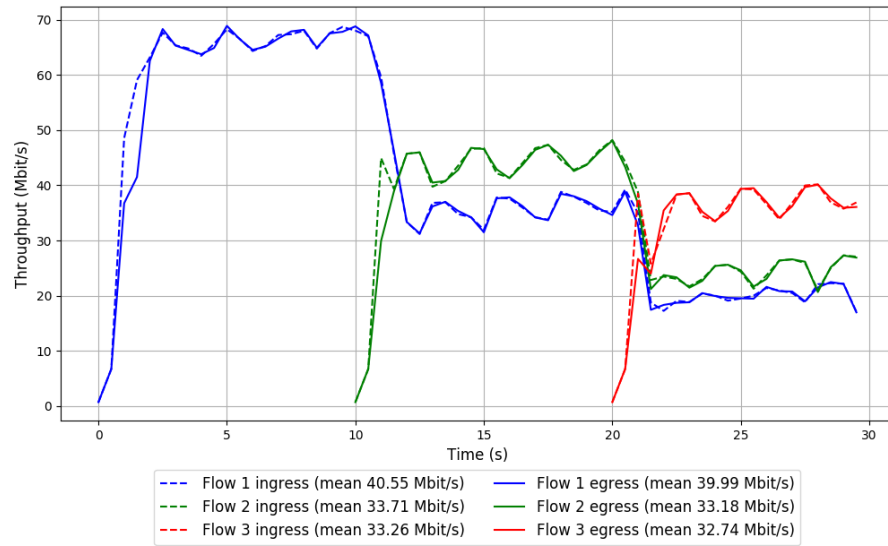
-- Flow 3:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 5.788 ms

Loss rate: 1.55%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-05 01:47:41

End at: 2018-02-05 01:48:11

Local clock offset: -1.555 ms

Remote clock offset: 2.24 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.47 Mbit/s

95th percentile per-packet one-way delay: 27.720 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 27.252 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 20.75 Mbit/s

95th percentile per-packet one-way delay: 28.069 ms

Loss rate: 0.00%

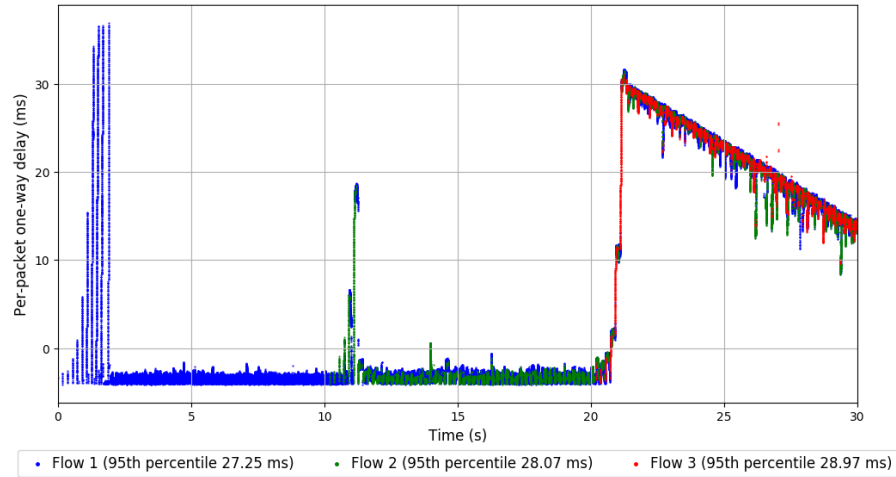
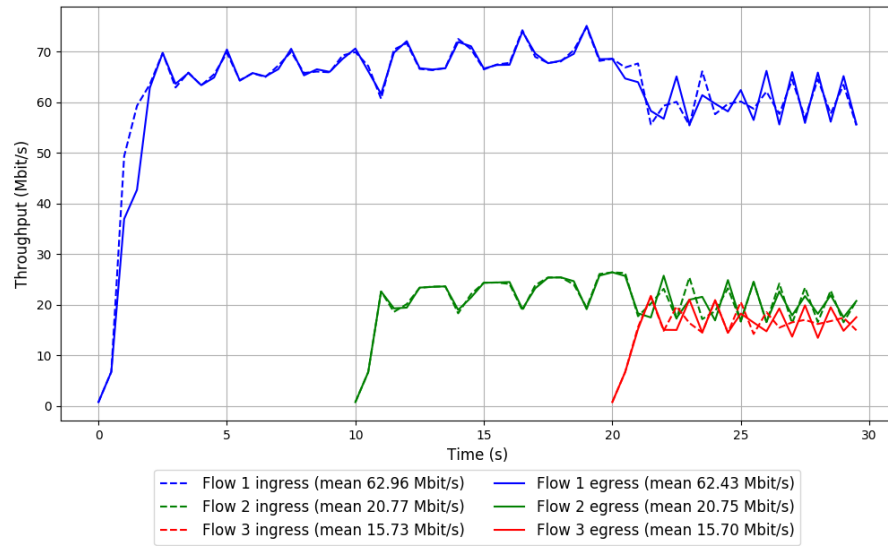
-- Flow 3:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 28.967 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-05 02:12:46

End at: 2018-02-05 02:13:16

Local clock offset: 3.388 ms

Remote clock offset: 3.6 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 5.847 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 31.38 Mbit/s

95th percentile per-packet one-way delay: 7.402 ms

Loss rate: 2.12%

-- Flow 2:

Average throughput: 18.71 Mbit/s

95th percentile per-packet one-way delay: 4.666 ms

Loss rate: 2.51%

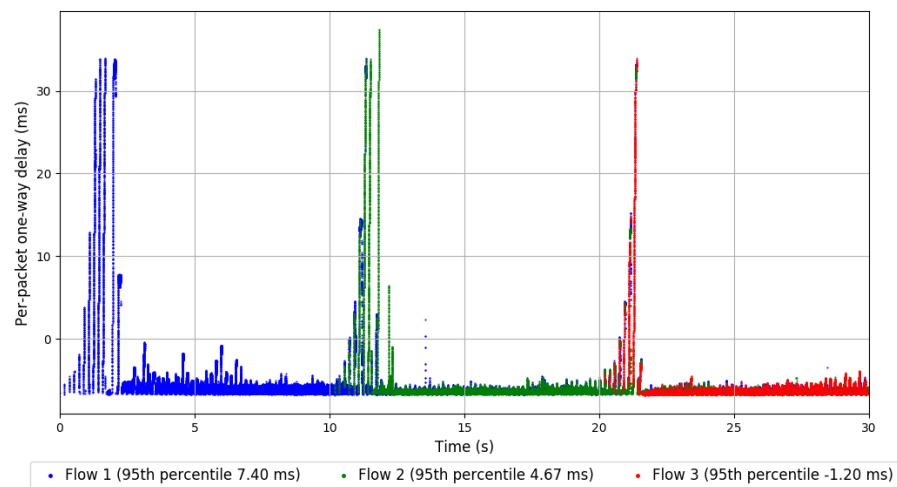
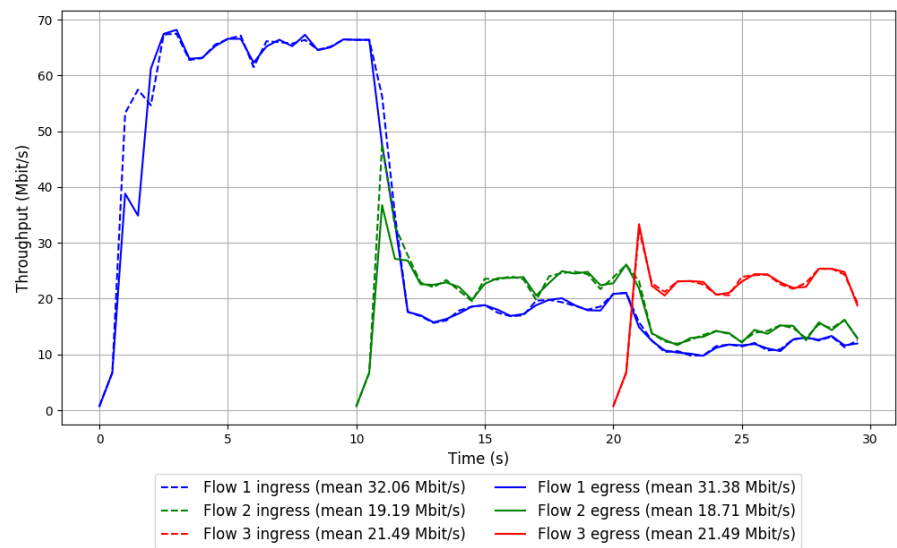
-- Flow 3:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: -1.198 ms

Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-05 02:37:15

End at: 2018-02-05 02:37:45

Local clock offset: 0.988 ms

Remote clock offset: 3.23 ms

Below is generated by plot.py at 2018-02-05 03:31:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.67 Mbit/s

95th percentile per-packet one-way delay: 6.047 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 26.70 Mbit/s

95th percentile per-packet one-way delay: 5.852 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 7.977 ms

Loss rate: 1.07%

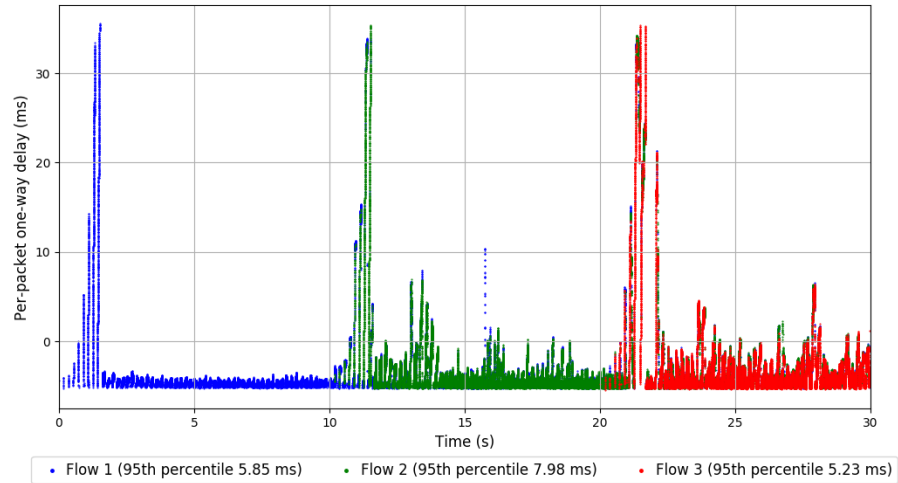
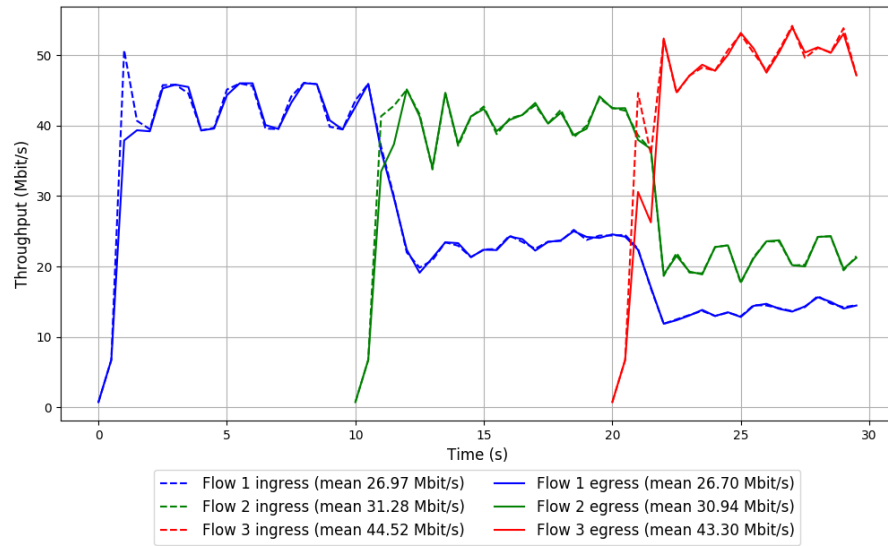
-- Flow 3:

Average throughput: 43.30 Mbit/s

95th percentile per-packet one-way delay: 5.232 ms

Loss rate: 2.68%

Run 10: Report of TCP Vegas — Data Link

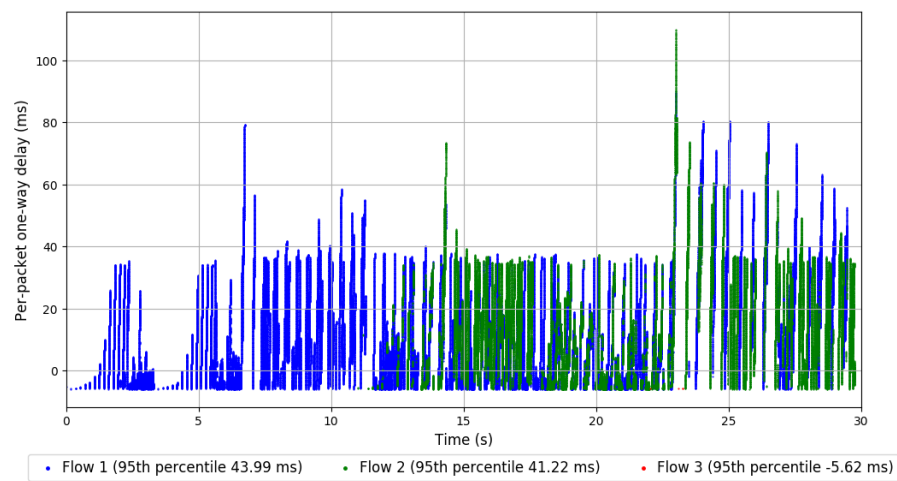
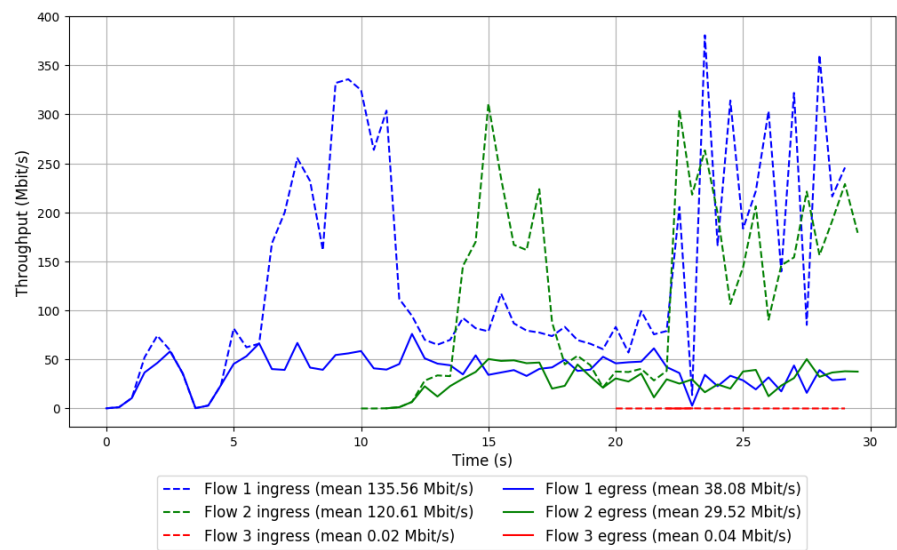


Run 1: Statistics of Verus

Start at: 2018-02-04 22:55:12
End at: 2018-02-04 22:55:42
Local clock offset: 0.392 ms
Remote clock offset: 10.235 ms

Below is generated by plot.py at 2018-02-05 03:32:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.33 Mbit/s
95th percentile per-packet one-way delay: 43.042 ms
Loss rate: 73.69%
-- Flow 1:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 43.990 ms
Loss rate: 71.85%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 41.221 ms
Loss rate: 76.76%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: -5.623 ms
Loss rate: 77.78%

Run 1: Report of Verus — Data Link

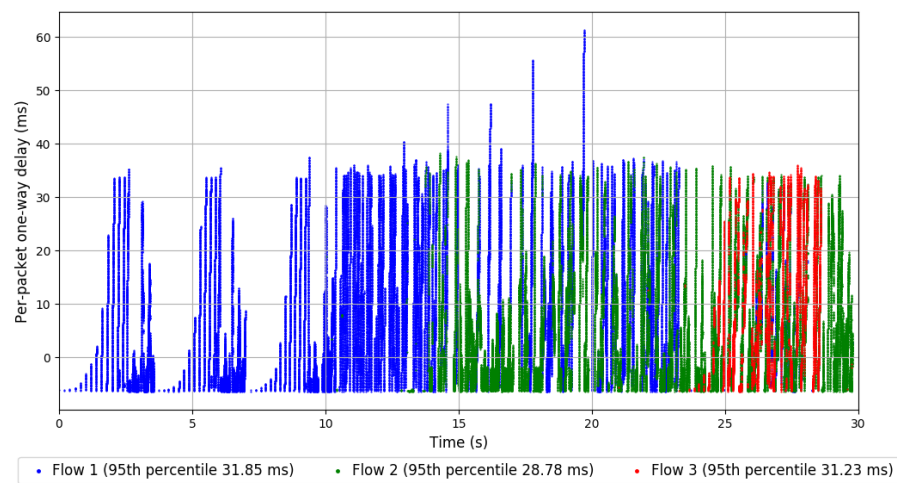
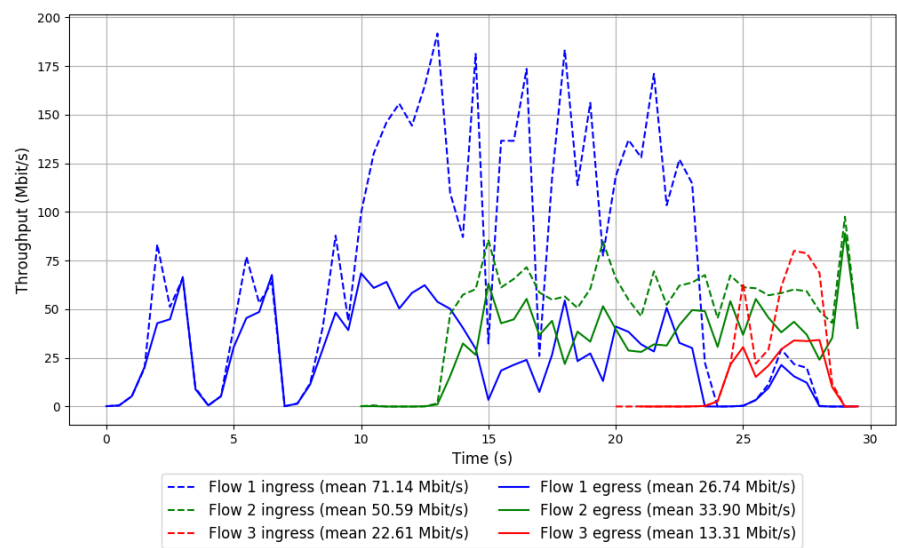


Run 2: Statistics of Verus

Start at: 2018-02-04 23:20:15
End at: 2018-02-04 23:20:45
Local clock offset: -0.221 ms
Remote clock offset: 12.724 ms

Below is generated by plot.py at 2018-02-05 03:32:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 30.727 ms
Loss rate: 52.60%
-- Flow 1:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 31.848 ms
Loss rate: 62.40%
-- Flow 2:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 28.781 ms
Loss rate: 33.03%
-- Flow 3:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 31.225 ms
Loss rate: 47.16%

Run 2: Report of Verus — Data Link

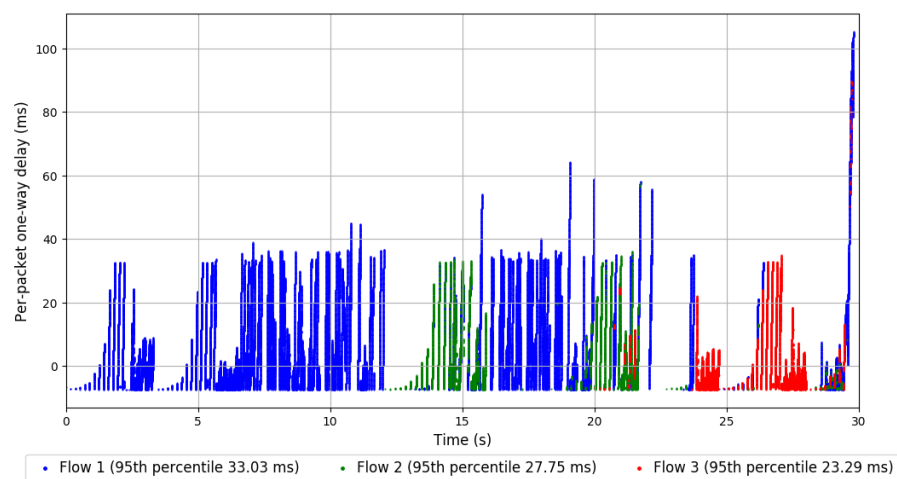
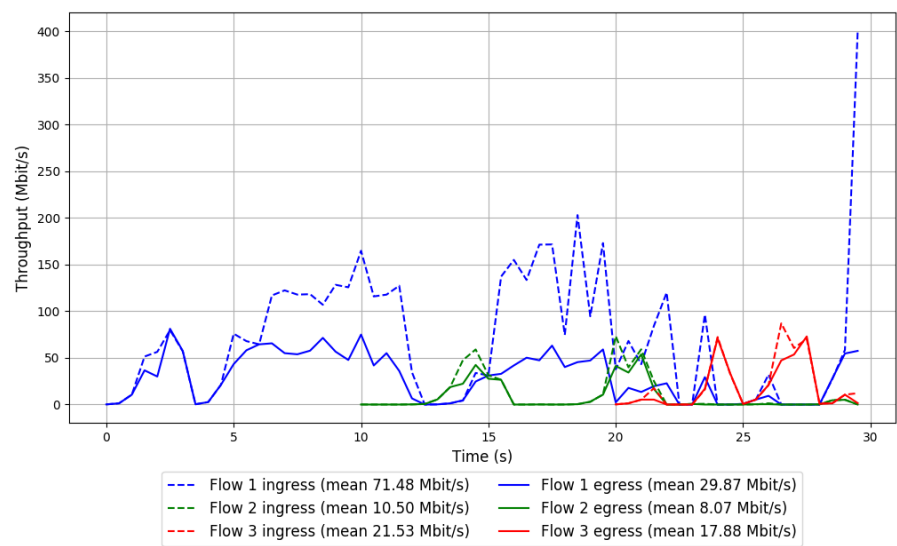


Run 3: Statistics of Verus

Start at: 2018-02-04 23:44:55
End at: 2018-02-04 23:45:25
Local clock offset: 1.088 ms
Remote clock offset: 10.439 ms

Below is generated by plot.py at 2018-02-05 03:32:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 31.711 ms
Loss rate: 51.83%
-- Flow 1:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 33.029 ms
Loss rate: 58.06%
-- Flow 2:
Average throughput: 8.07 Mbit/s
95th percentile per-packet one-way delay: 27.755 ms
Loss rate: 23.84%
-- Flow 3:
Average throughput: 17.88 Mbit/s
95th percentile per-packet one-way delay: 23.292 ms
Loss rate: 16.14%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-05 00:09:17

End at: 2018-02-05 00:09:47

Local clock offset: -0.022 ms

Remote clock offset: 8.563 ms

Below is generated by plot.py at 2018-02-05 03:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.55 Mbit/s

95th percentile per-packet one-way delay: 46.555 ms

Loss rate: 65.25%

-- Flow 1:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 35.035 ms

Loss rate: 54.12%

-- Flow 2:

Average throughput: 18.35 Mbit/s

95th percentile per-packet one-way delay: 33.375 ms

Loss rate: 31.25%

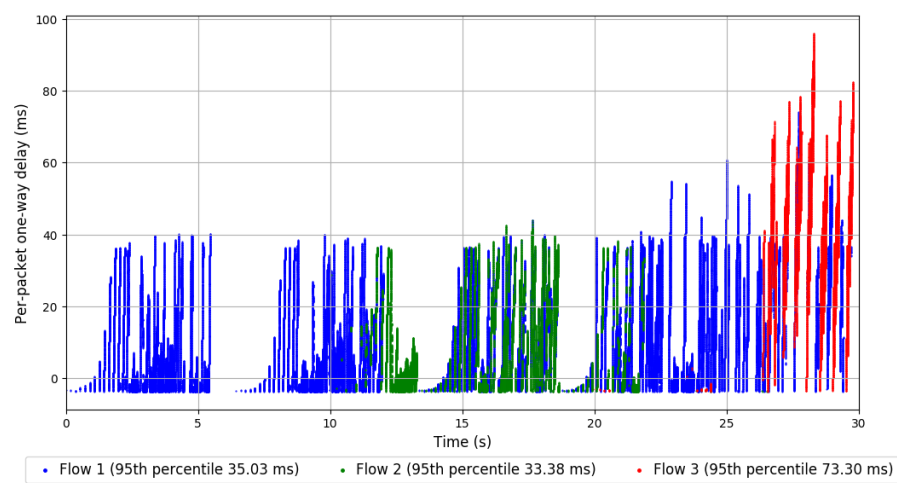
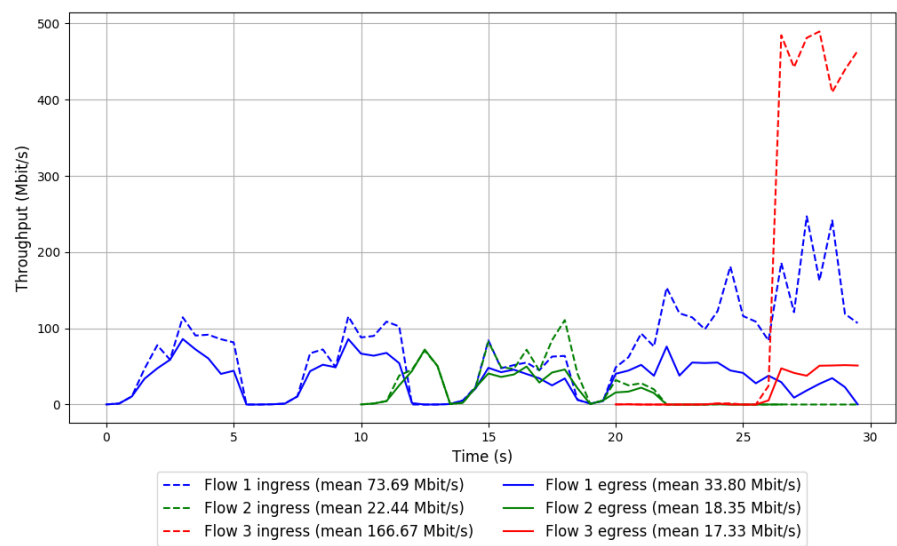
-- Flow 3:

Average throughput: 17.33 Mbit/s

95th percentile per-packet one-way delay: 73.302 ms

Loss rate: 89.53%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-05 00:34:30

End at: 2018-02-05 00:35:00

Local clock offset: 3.093 ms

Remote clock offset: 1.326 ms

Below is generated by plot.py at 2018-02-05 03:32:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.20 Mbit/s

95th percentile per-packet one-way delay: 27.454 ms

Loss rate: 45.43%

-- Flow 1:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 24.662 ms

Loss rate: 20.27%

-- Flow 2:

Average throughput: 33.86 Mbit/s

95th percentile per-packet one-way delay: 28.775 ms

Loss rate: 55.43%

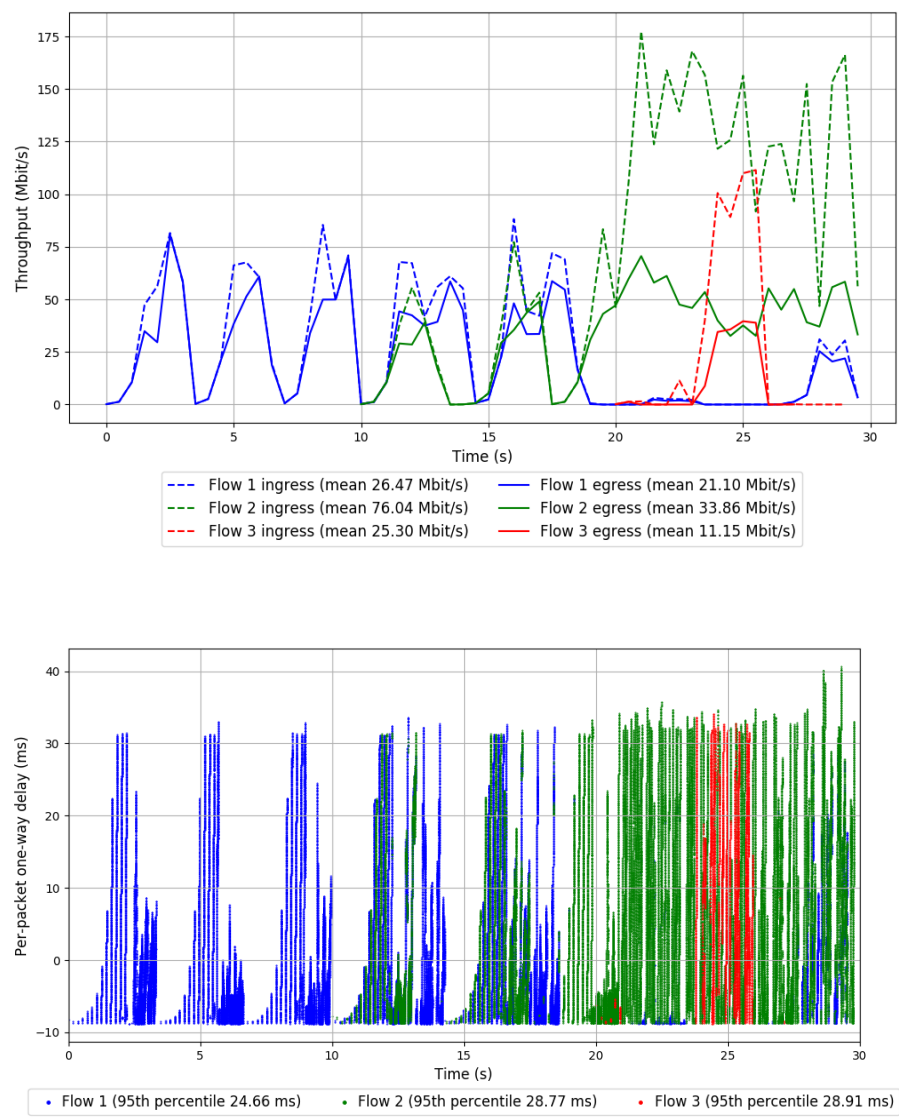
-- Flow 3:

Average throughput: 11.15 Mbit/s

95th percentile per-packet one-way delay: 28.912 ms

Loss rate: 65.84%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-05 00:59:35

End at: 2018-02-05 01:00:05

Local clock offset: 2.045 ms

Remote clock offset: 3.527 ms

Below is generated by plot.py at 2018-02-05 03:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 51.342 ms

Loss rate: 83.54%

-- Flow 1:

Average throughput: 42.23 Mbit/s

95th percentile per-packet one-way delay: 51.833 ms

Loss rate: 84.27%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 26.781 ms

Loss rate: 17.14%

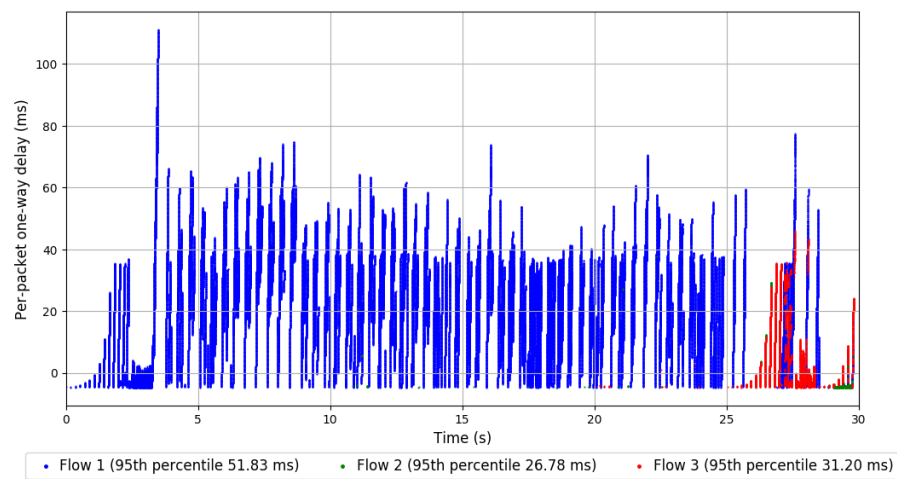
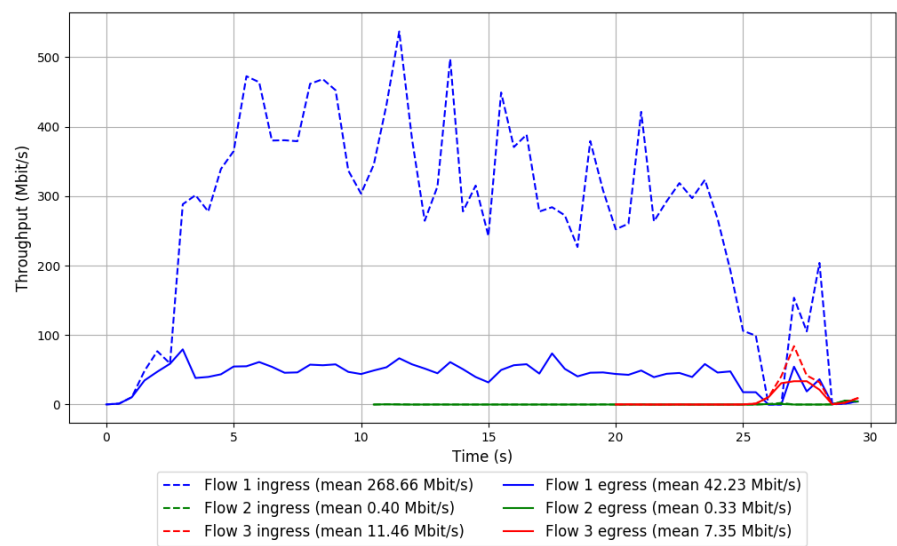
-- Flow 3:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 31.199 ms

Loss rate: 35.71%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-05 01:24:09

End at: 2018-02-05 01:24:39

Local clock offset: 1.653 ms

Remote clock offset: 2.399 ms

Below is generated by plot.py at 2018-02-05 03:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 34.118 ms

Loss rate: 79.44%

-- Flow 1:

Average throughput: 44.24 Mbit/s

95th percentile per-packet one-way delay: 34.373 ms

Loss rate: 80.30%

-- Flow 2:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 5.470 ms

Loss rate: 61.90%

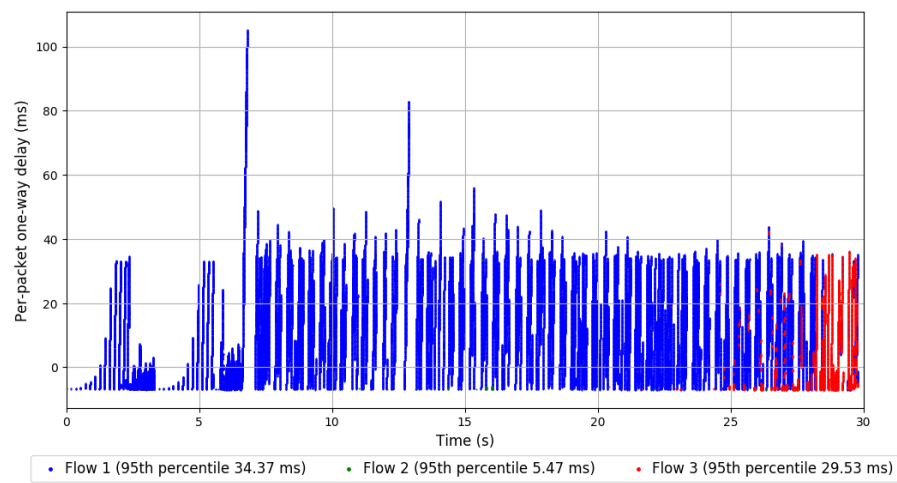
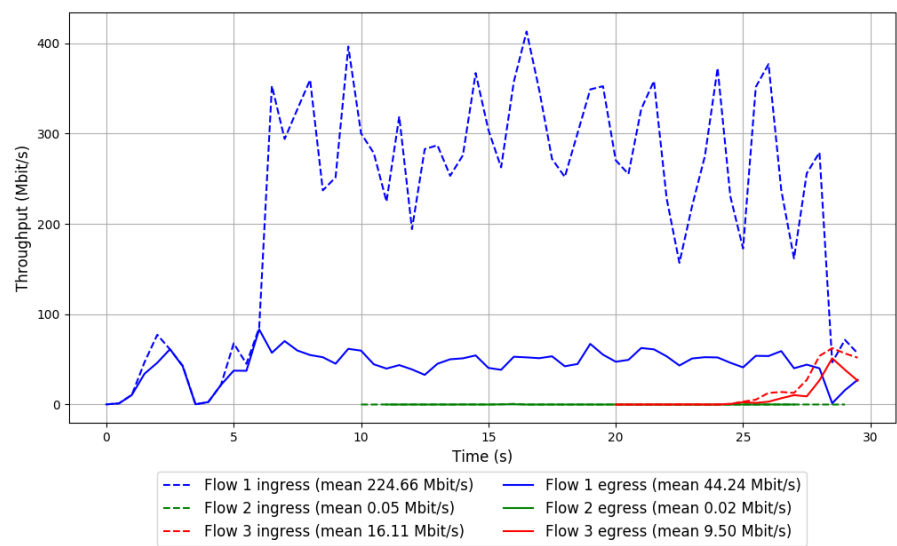
-- Flow 3:

Average throughput: 9.50 Mbit/s

95th percentile per-packet one-way delay: 29.529 ms

Loss rate: 41.04%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-05 01:49:08

End at: 2018-02-05 01:49:38

Local clock offset: 1.624 ms

Remote clock offset: 3.116 ms

Below is generated by plot.py at 2018-02-05 03:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 29.021 ms

Loss rate: 27.93%

-- Flow 1:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 28.821 ms

Loss rate: 29.01%

-- Flow 2:

Average throughput: 15.60 Mbit/s

95th percentile per-packet one-way delay: 29.442 ms

Loss rate: 22.90%

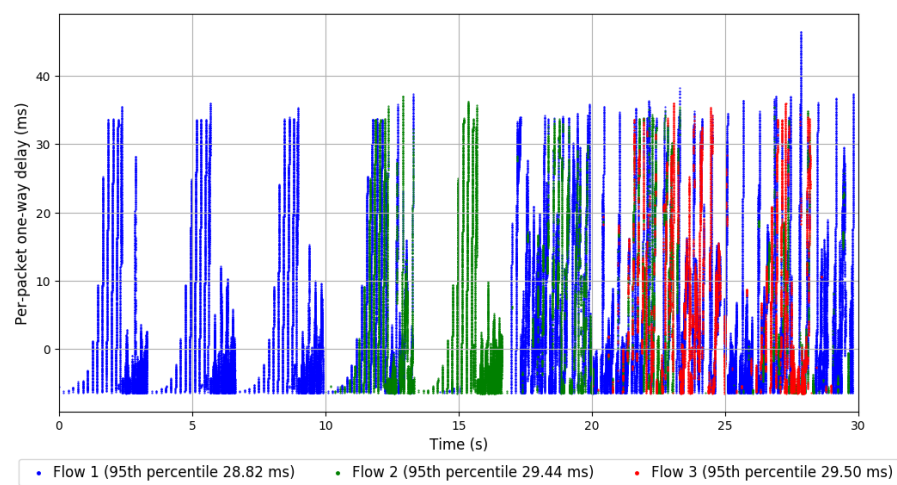
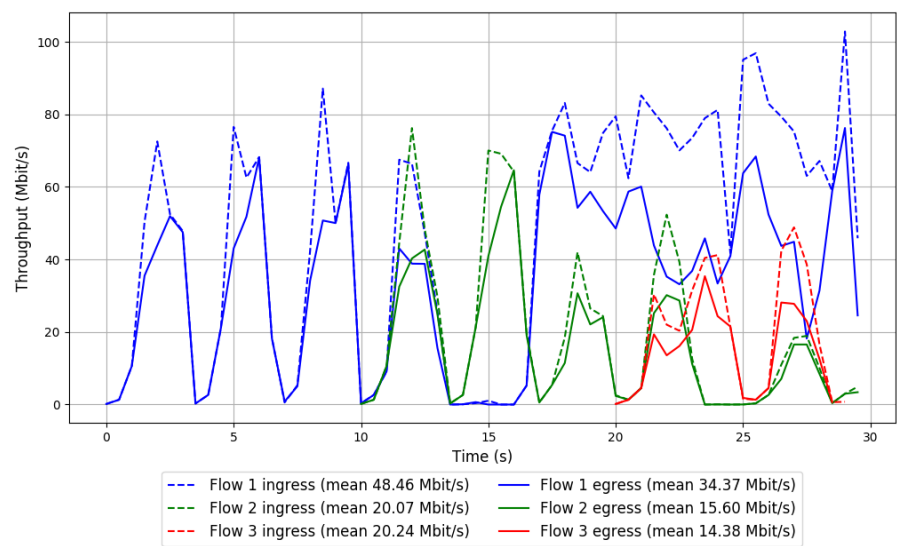
-- Flow 3:

Average throughput: 14.38 Mbit/s

95th percentile per-packet one-way delay: 29.500 ms

Loss rate: 30.35%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-05 02:14:06

End at: 2018-02-05 02:14:36

Local clock offset: 0.955 ms

Remote clock offset: 3.833 ms

Below is generated by plot.py at 2018-02-05 03:33:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.33 Mbit/s

95th percentile per-packet one-way delay: 34.831 ms

Loss rate: 59.00%

-- Flow 1:

Average throughput: 35.70 Mbit/s

95th percentile per-packet one-way delay: 35.518 ms

Loss rate: 62.65%

-- Flow 2:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 28.818 ms

Loss rate: 21.86%

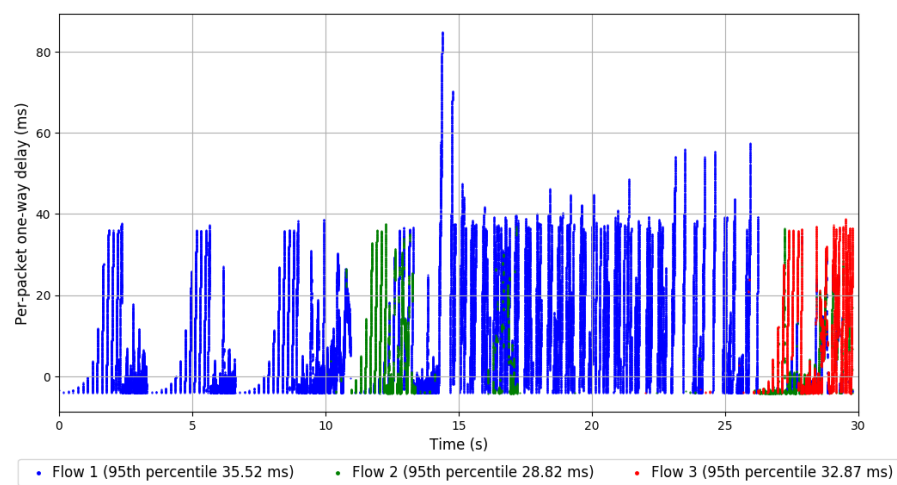
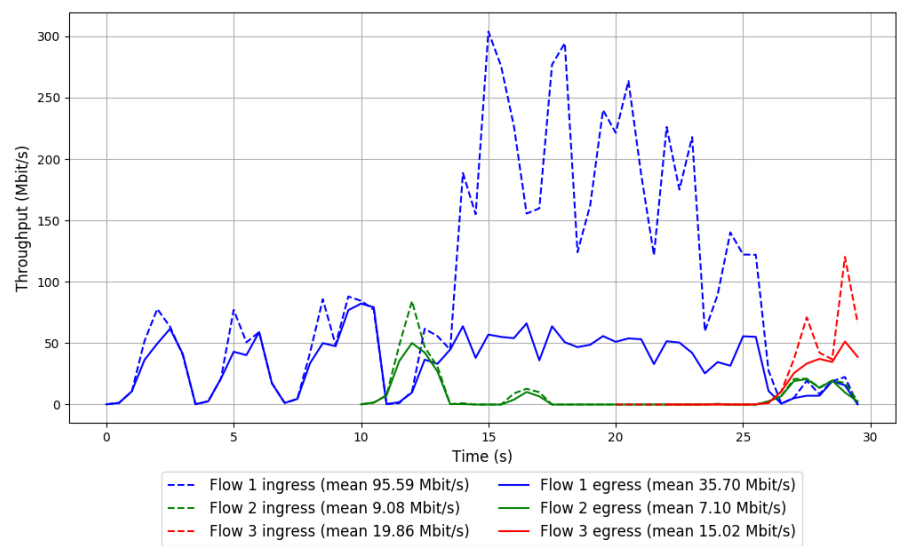
-- Flow 3:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 32.869 ms

Loss rate: 39.62%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-05 02:38:36

End at: 2018-02-05 02:39:06

Local clock offset: 2.21 ms

Remote clock offset: 2.566 ms

Below is generated by plot.py at 2018-02-05 03:33:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.89 Mbit/s

95th percentile per-packet one-way delay: 51.170 ms

Loss rate: 75.30%

-- Flow 1:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 77.48%

-- Flow 2:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 21.925 ms

Loss rate: 26.09%

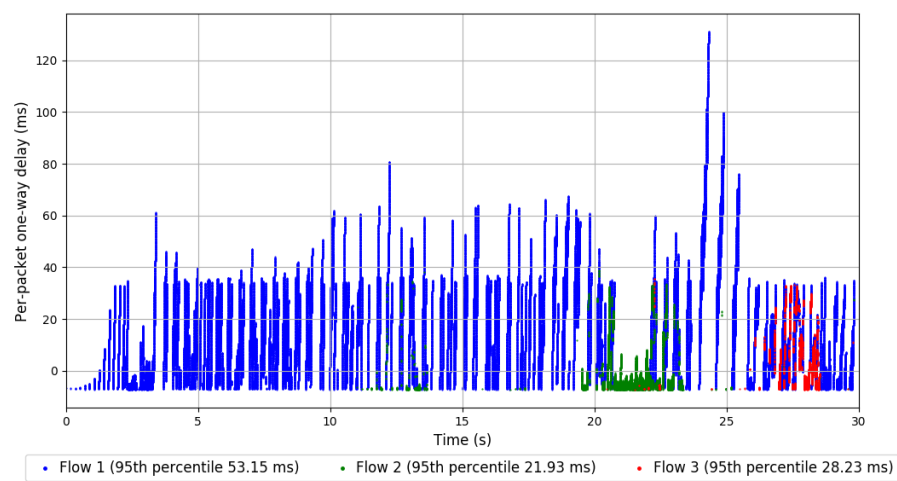
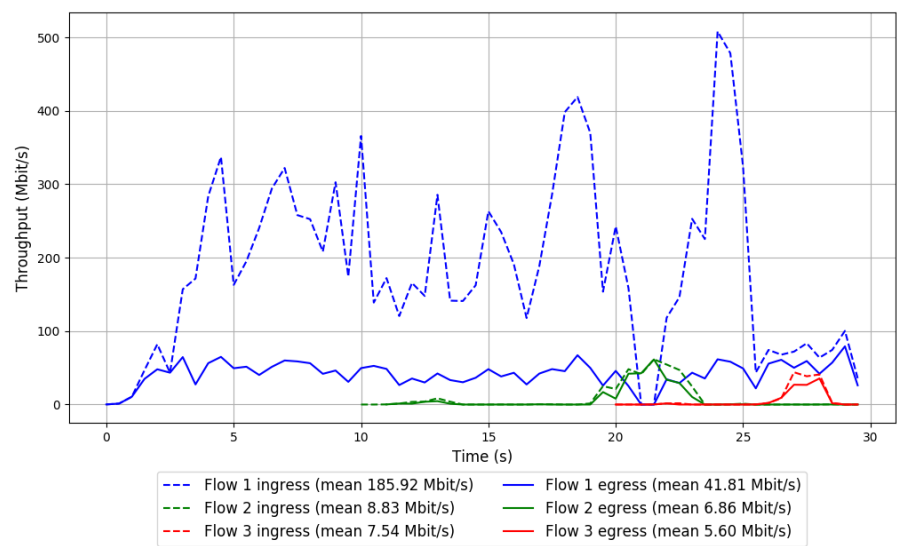
-- Flow 3:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 28.235 ms

Loss rate: 25.50%

Run 10: Report of Verus — Data Link

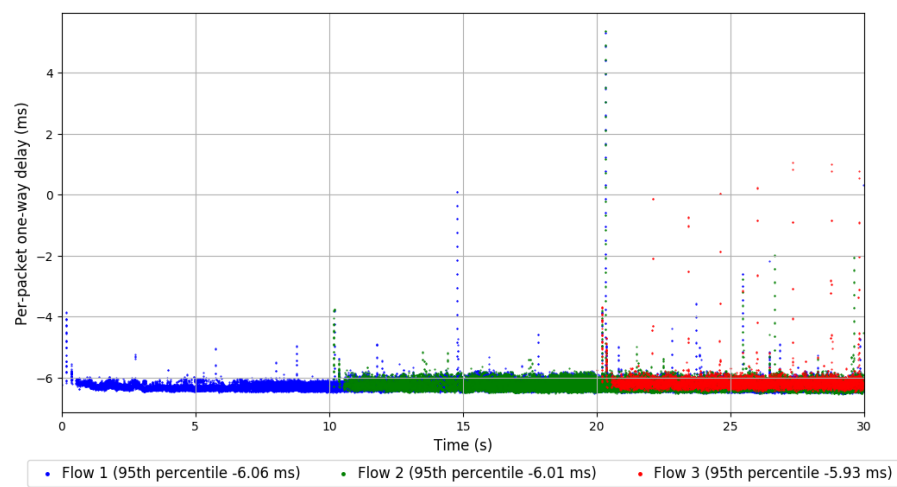
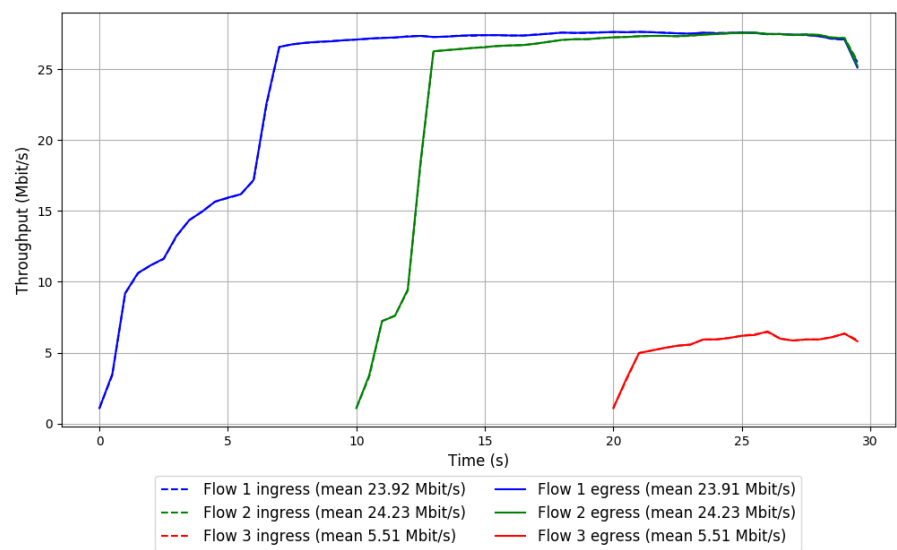


Run 1: Statistics of Copa

Start at: 2018-02-04 23:02:20
End at: 2018-02-04 23:02:50
Local clock offset: 0.183 ms
Remote clock offset: 10.779 ms

Below is generated by plot.py at 2018-02-05 03:33:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.88 Mbit/s
95th percentile per-packet one-way delay: -6.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: -6.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: -6.015 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.51 Mbit/s
95th percentile per-packet one-way delay: -5.929 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

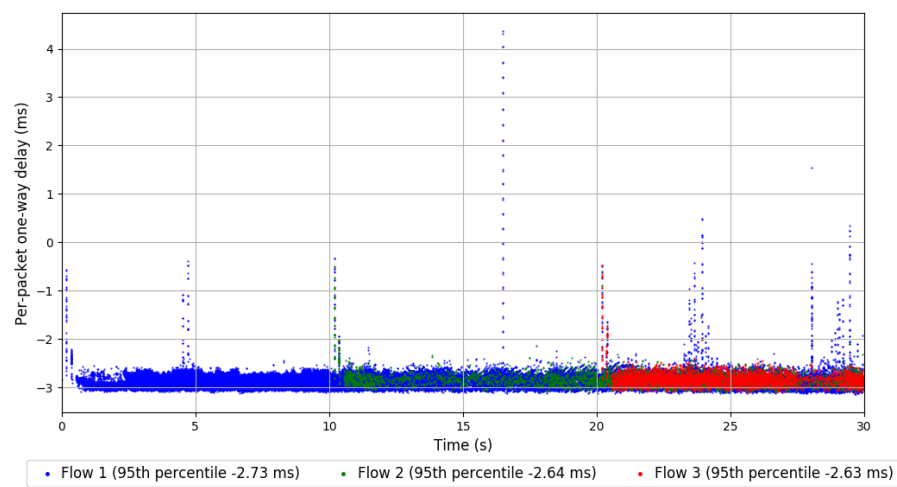
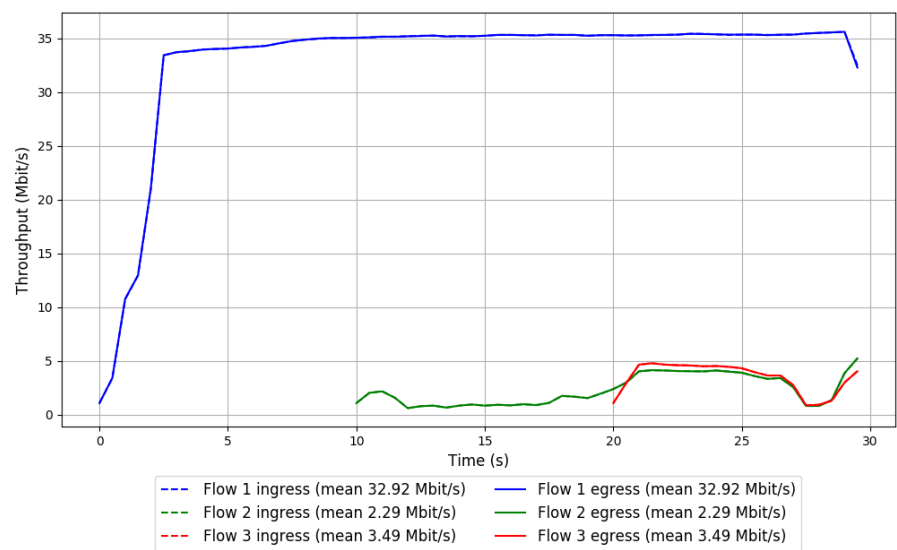


Run 2: Statistics of Copa

Start at: 2018-02-04 23:27:14
End at: 2018-02-04 23:27:44
Local clock offset: -1.838 ms
Remote clock offset: 14.901 ms

Below is generated by plot.py at 2018-02-05 03:33:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: -2.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: -2.730 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: -2.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: -2.632 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

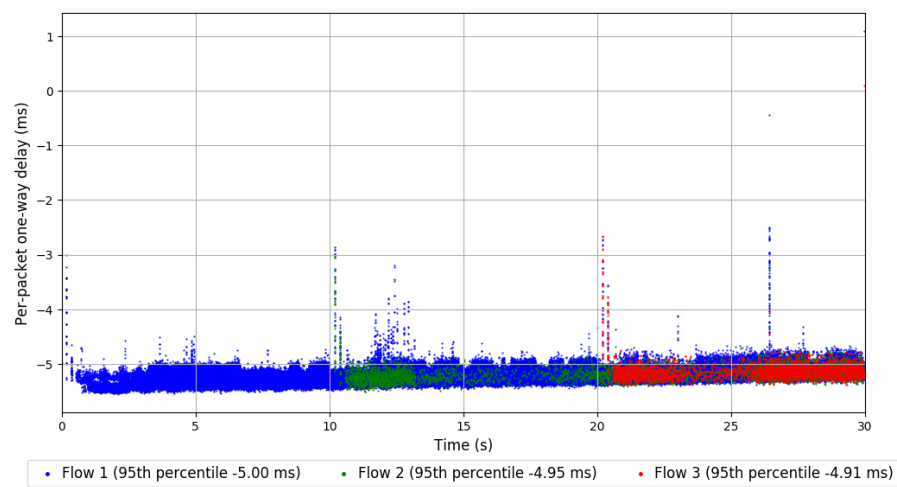
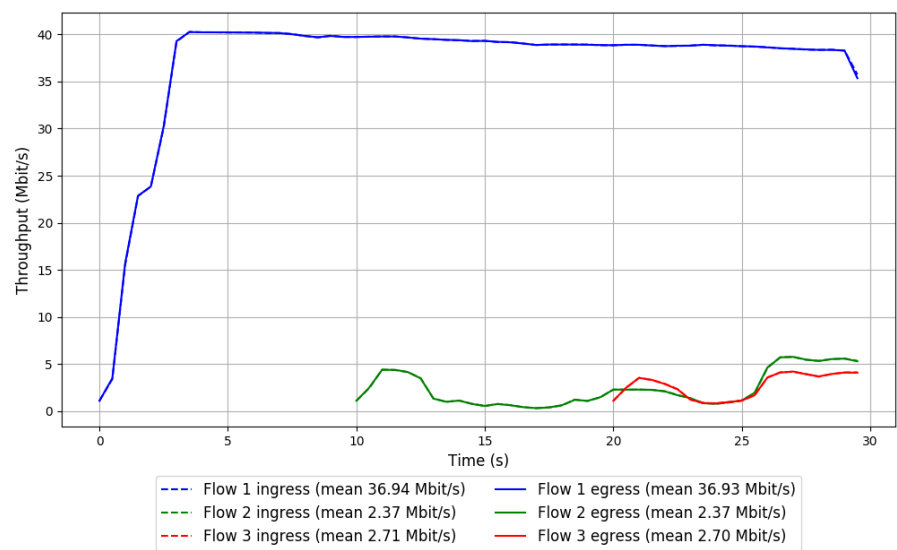


Run 3: Statistics of Copa

Start at: 2018-02-04 23:51:55
End at: 2018-02-04 23:52:26
Local clock offset: -1.337 ms
Remote clock offset: 8.75 ms

```
# Below is generated by plot.py at 2018-02-05 03:33:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: -4.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.93 Mbit/s
95th percentile per-packet one-way delay: -4.995 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: -4.950 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: -4.910 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-05 00:16:24

End at: 2018-02-05 00:16:54

Local clock offset: 1.24 ms

Remote clock offset: 4.612 ms

Below is generated by plot.py at 2018-02-05 03:33:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: -5.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 19.85 Mbit/s

95th percentile per-packet one-way delay: -5.574 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.08 Mbit/s

95th percentile per-packet one-way delay: -5.486 ms

Loss rate: 0.00%

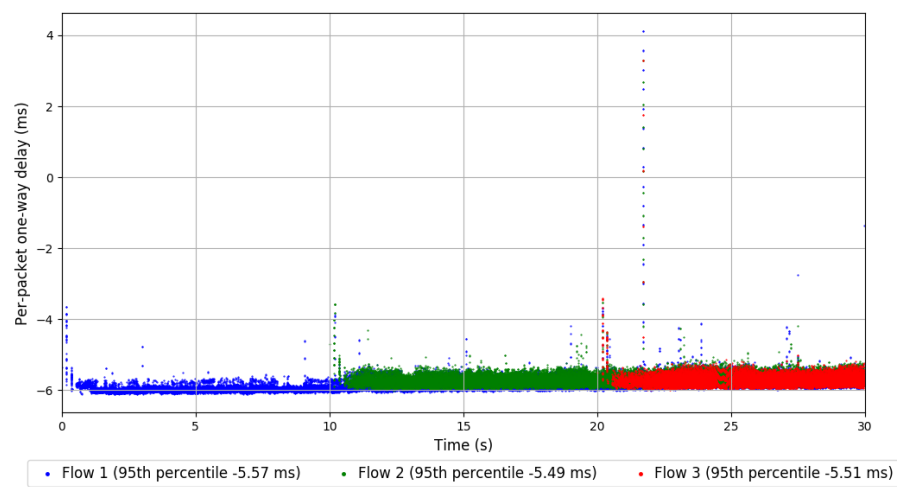
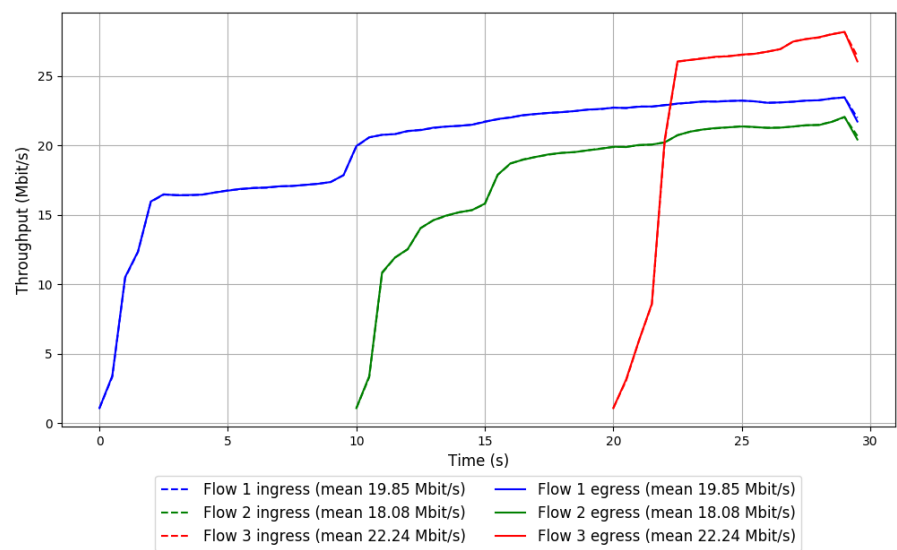
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: -5.509 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-05 00:41:36

End at: 2018-02-05 00:42:06

Local clock offset: 2.271 ms

Remote clock offset: 3.939 ms

Below is generated by plot.py at 2018-02-05 03:34:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: -4.331 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.95 Mbit/s

95th percentile per-packet one-way delay: -4.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: -4.294 ms

Loss rate: 0.00%

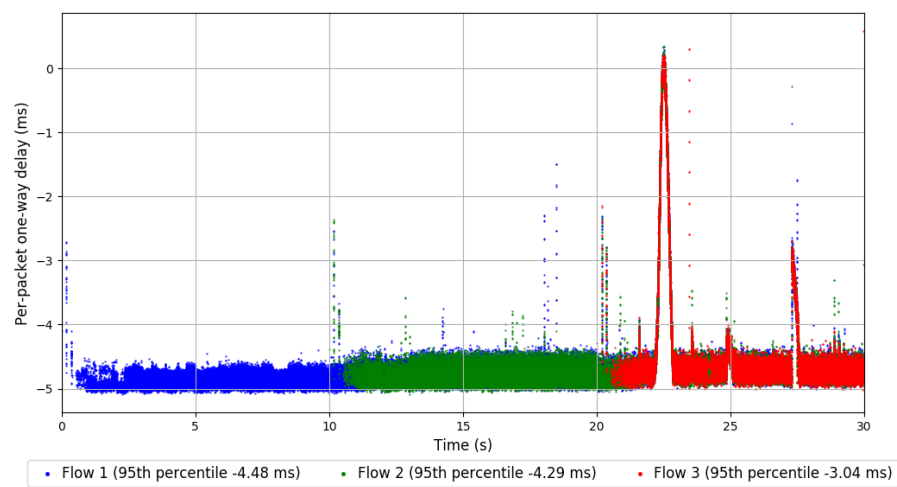
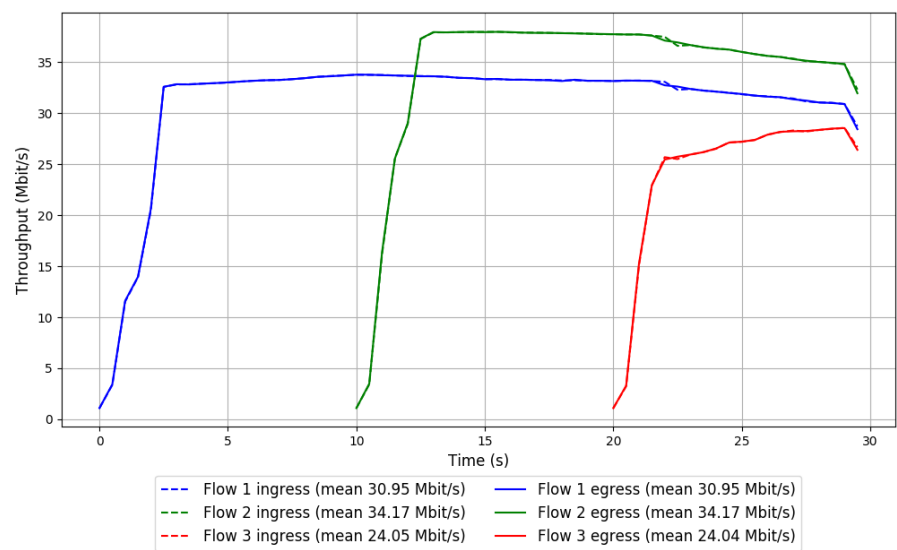
-- Flow 3:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: -3.044 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-05 01:06:35

End at: 2018-02-05 01:07:05

Local clock offset: 2.929 ms

Remote clock offset: 1.55 ms

Below is generated by plot.py at 2018-02-05 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: -5.021 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: -7.279 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.97 Mbit/s

95th percentile per-packet one-way delay: -3.960 ms

Loss rate: 0.00%

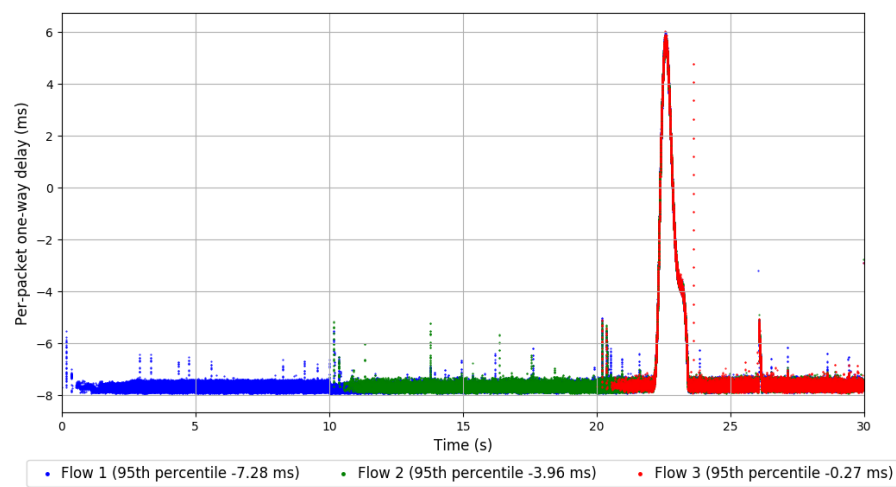
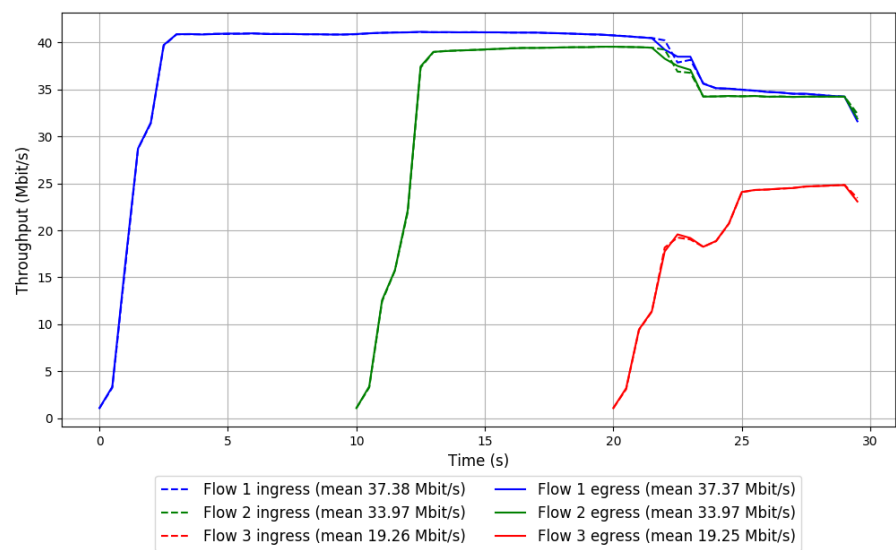
-- Flow 3:

Average throughput: 19.25 Mbit/s

95th percentile per-packet one-way delay: -0.269 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-05 01:31:04

End at: 2018-02-05 01:31:34

Local clock offset: -0.266 ms

Remote clock offset: 2.503 ms

Below is generated by plot.py at 2018-02-05 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.31 Mbit/s

95th percentile per-packet one-way delay: -5.054 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: -5.094 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.53 Mbit/s

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

Loss rate: 0.00%

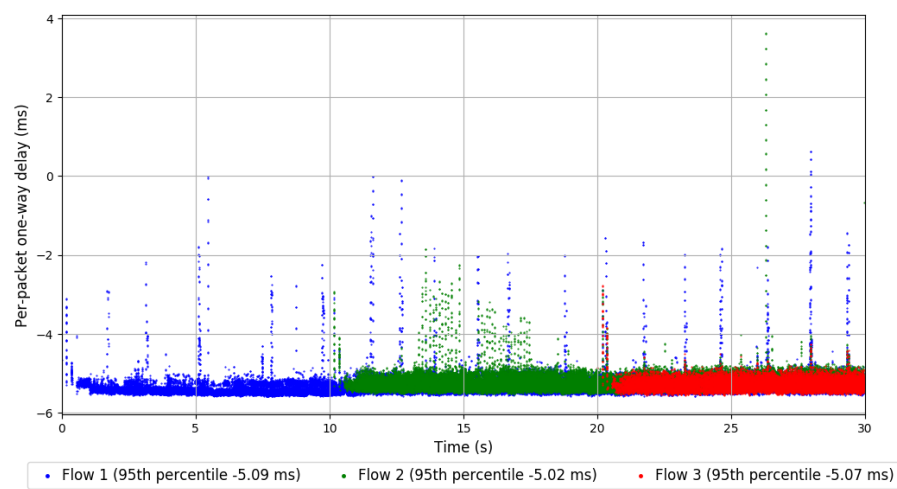
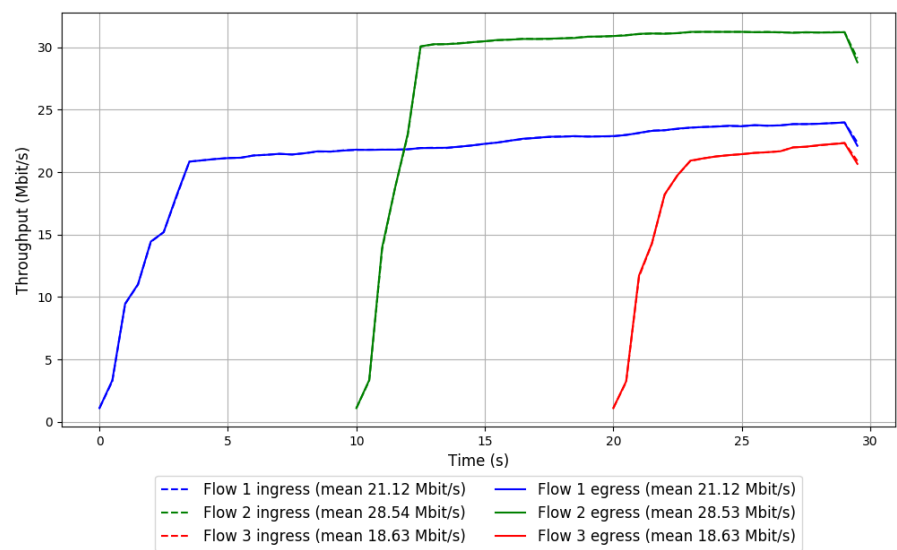
-- Flow 3:

Average throughput: 18.63 Mbit/s

95th percentile per-packet one-way delay: -5.071 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-05 01:55:59

End at: 2018-02-05 01:56:29

Local clock offset: 0.841 ms

Remote clock offset: 3.914 ms

Below is generated by plot.py at 2018-02-05 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: -4.127 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.53 Mbit/s

95th percentile per-packet one-way delay: -4.149 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: -4.119 ms

Loss rate: 0.00%

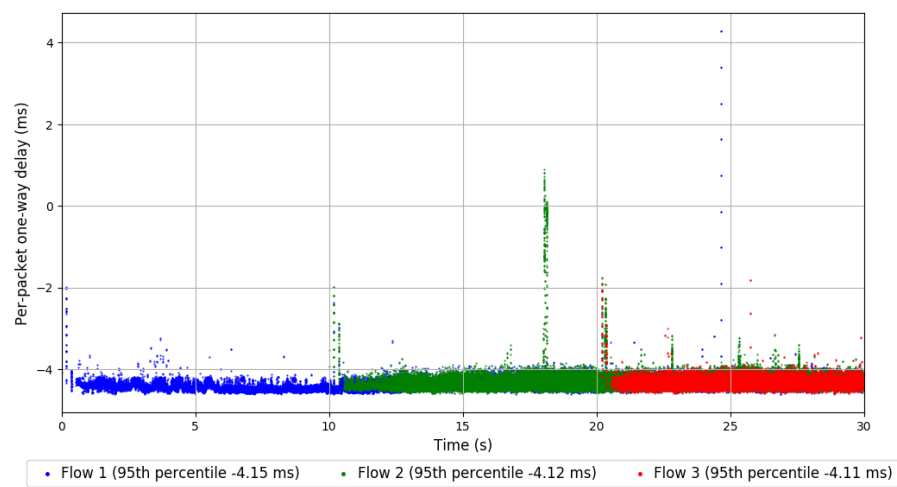
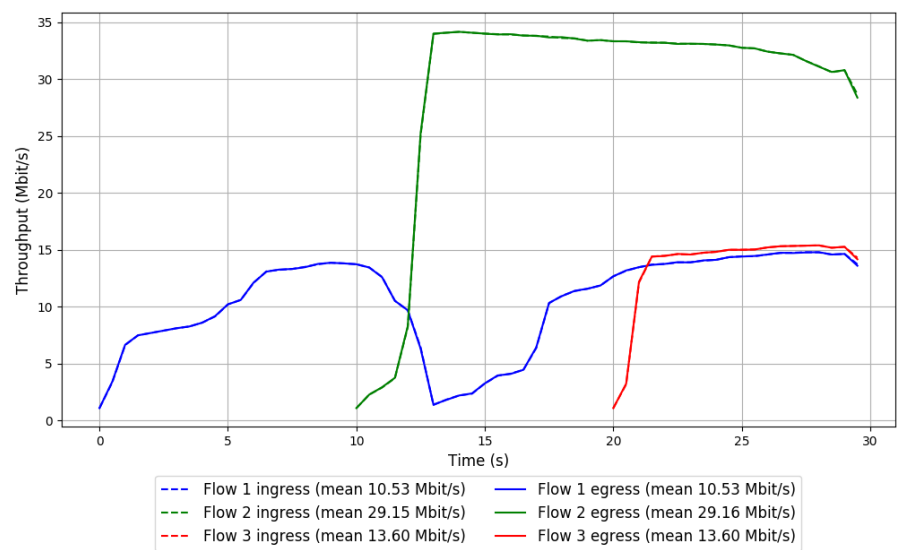
-- Flow 3:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: -4.113 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-05 02:21:00

End at: 2018-02-05 02:21:30

Local clock offset: 0.704 ms

Remote clock offset: 2.151 ms

Below is generated by plot.py at 2018-02-05 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.73 Mbit/s

95th percentile per-packet one-way delay: -4.825 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: -4.989 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: -4.647 ms

Loss rate: 0.00%

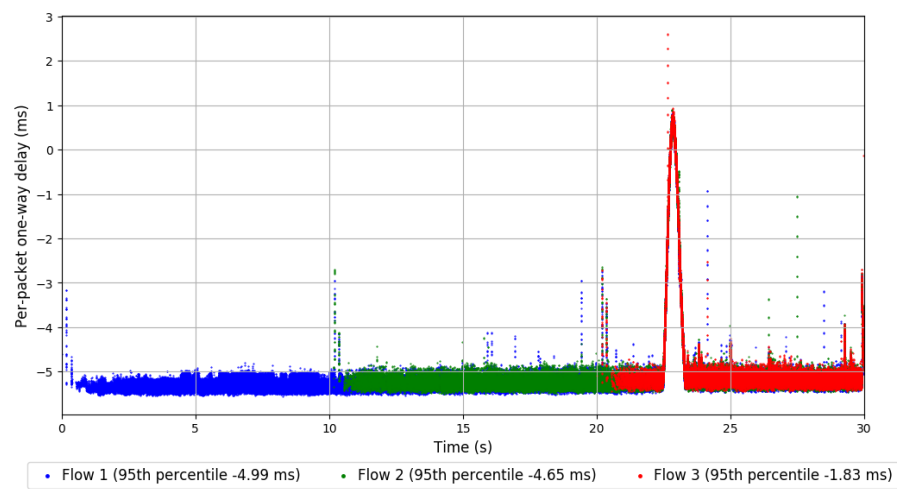
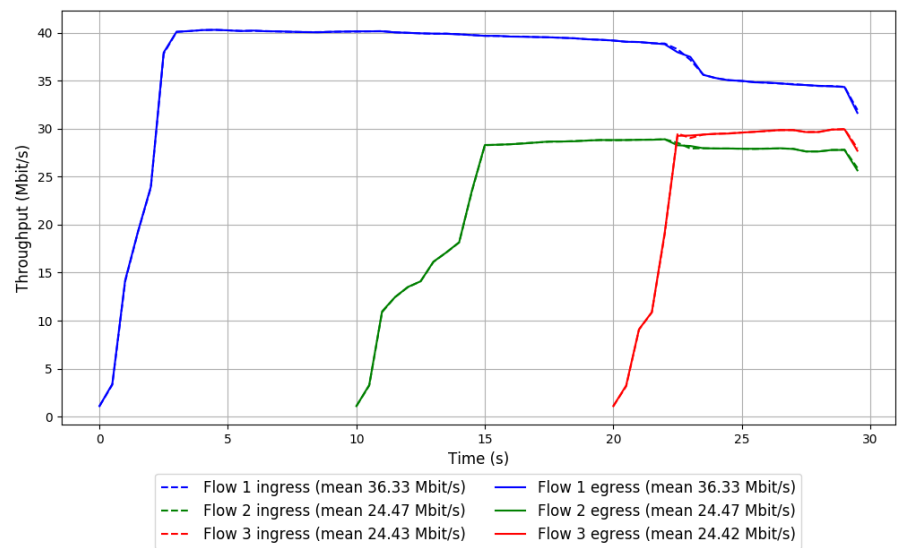
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: -1.833 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-05 02:45:48

End at: 2018-02-05 02:46:18

Local clock offset: 0.981 ms

Remote clock offset: 3.31 ms

Below is generated by plot.py at 2018-02-05 03:34:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: -4.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: -4.902 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: -4.807 ms

Loss rate: 0.00%

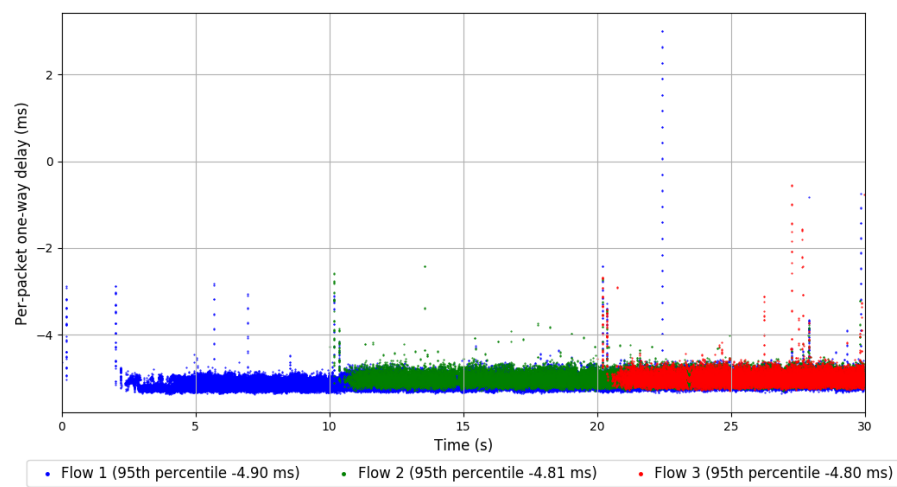
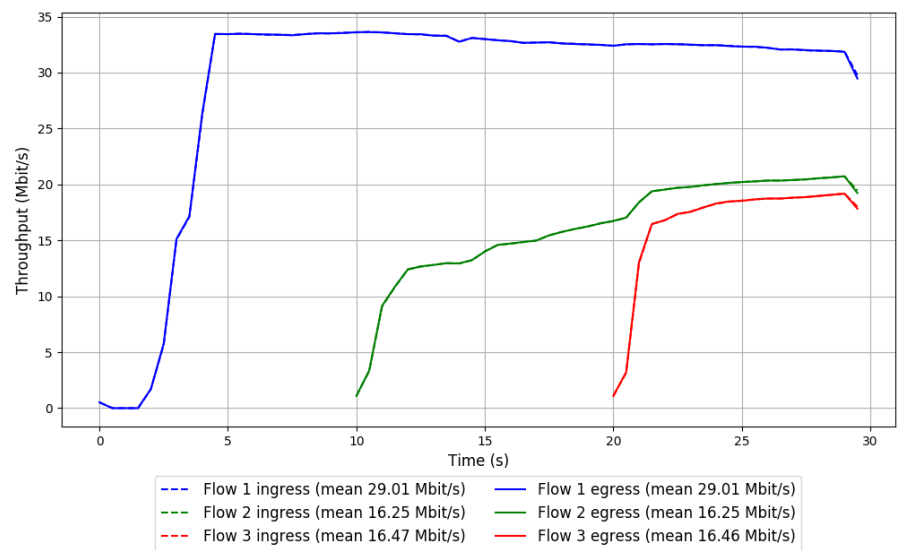
-- Flow 3:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: -4.800 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

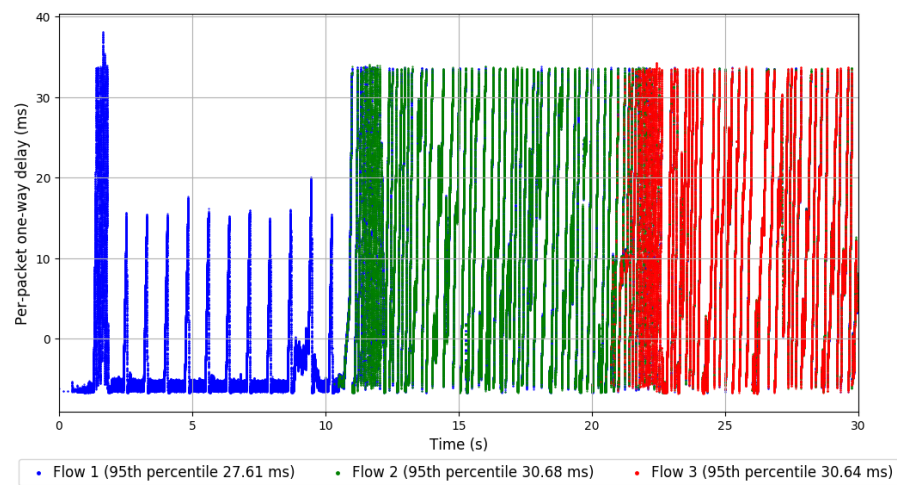
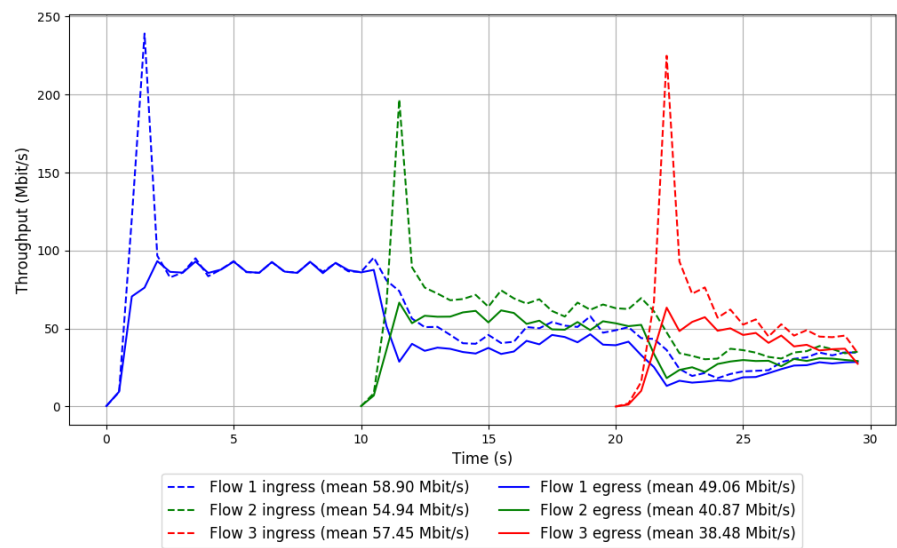


```
Run 1: Statistics of FillP

Start at: 2018-02-04 23:00:52
End at: 2018-02-04 23:01:22
Local clock offset: -0.382 ms
Remote clock offset: 9.913 ms

# Below is generated by plot.py at 2018-02-05 03:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 29.587 ms
Loss rate: 22.22%
-- Flow 1:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 27.614 ms
Loss rate: 16.67%
-- Flow 2:
Average throughput: 40.87 Mbit/s
95th percentile per-packet one-way delay: 30.681 ms
Loss rate: 25.58%
-- Flow 3:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 30.642 ms
Loss rate: 32.94%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-04 23:25:49

End at: 2018-02-04 23:26:19

Local clock offset: 1.217 ms

Remote clock offset: 13.45 ms

Below is generated by plot.py at 2018-02-05 03:35:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 28.868 ms

Loss rate: 22.68%

-- Flow 1:

Average throughput: 51.53 Mbit/s

95th percentile per-packet one-way delay: 27.226 ms

Loss rate: 15.93%

-- Flow 2:

Average throughput: 36.20 Mbit/s

95th percentile per-packet one-way delay: 29.910 ms

Loss rate: 25.80%

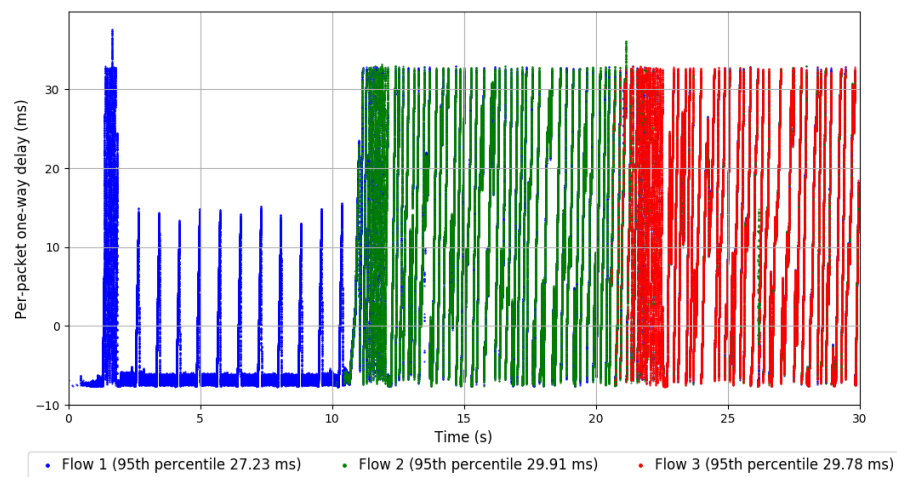
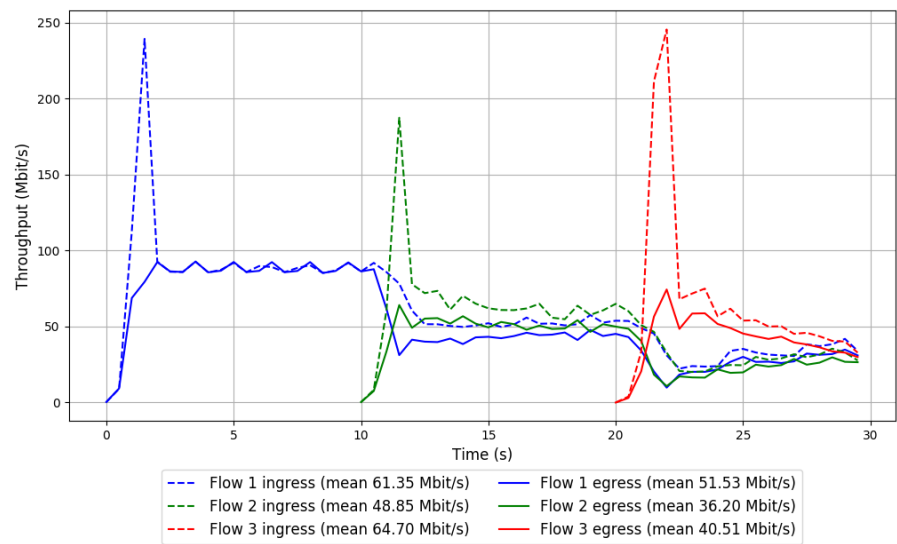
-- Flow 3:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 29.783 ms

Loss rate: 37.24%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-04 23:50:29

End at: 2018-02-04 23:50:59

Local clock offset: -0.265 ms

Remote clock offset: 9.396 ms

Below is generated by plot.py at 2018-02-05 03:36:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.85 Mbit/s

95th percentile per-packet one-way delay: 30.195 ms

Loss rate: 21.91%

-- Flow 1:

Average throughput: 50.55 Mbit/s

95th percentile per-packet one-way delay: 28.279 ms

Loss rate: 16.80%

-- Flow 2:

Average throughput: 38.65 Mbit/s

95th percentile per-packet one-way delay: 31.271 ms

Loss rate: 26.68%

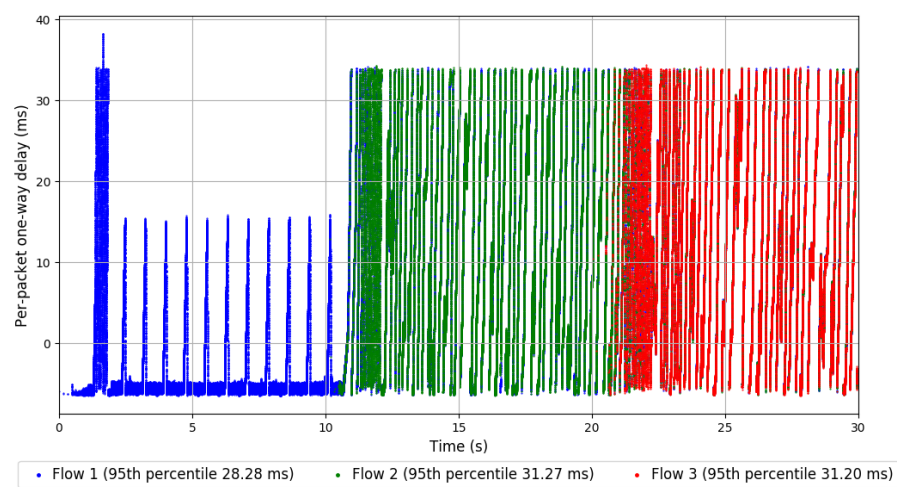
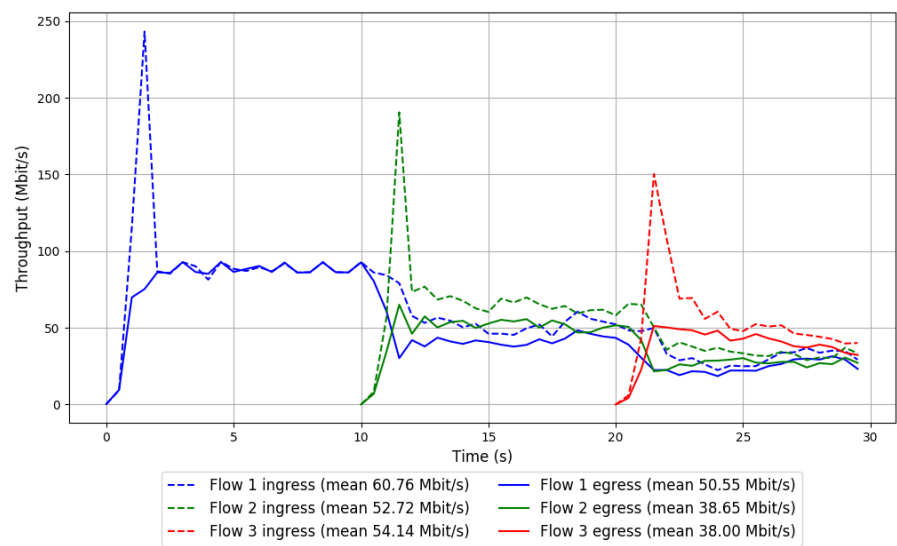
-- Flow 3:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 31.196 ms

Loss rate: 29.89%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-05 00:14:56

End at: 2018-02-05 00:15:26

Local clock offset: 2.878 ms

Remote clock offset: 8.335 ms

Below is generated by plot.py at 2018-02-05 03:36:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 32.039 ms

Loss rate: 23.18%

-- Flow 1:

Average throughput: 51.20 Mbit/s

95th percentile per-packet one-way delay: 30.220 ms

Loss rate: 17.59%

-- Flow 2:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 33.014 ms

Loss rate: 27.04%

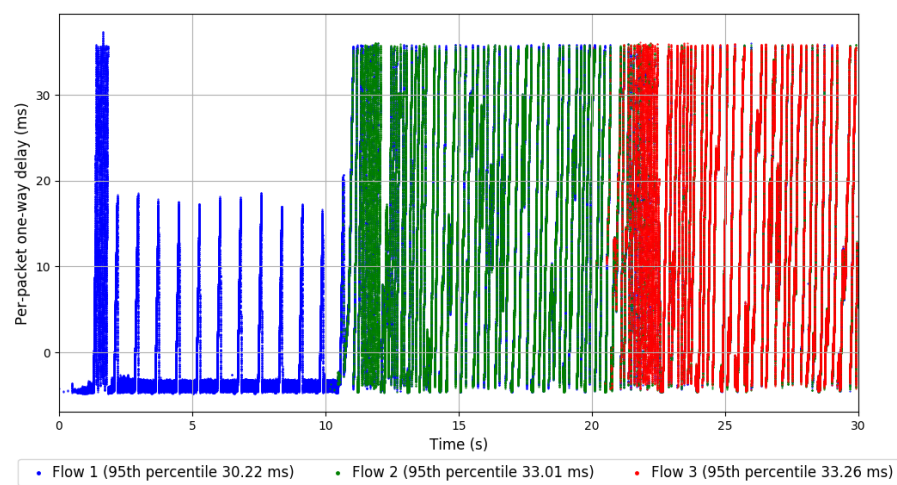
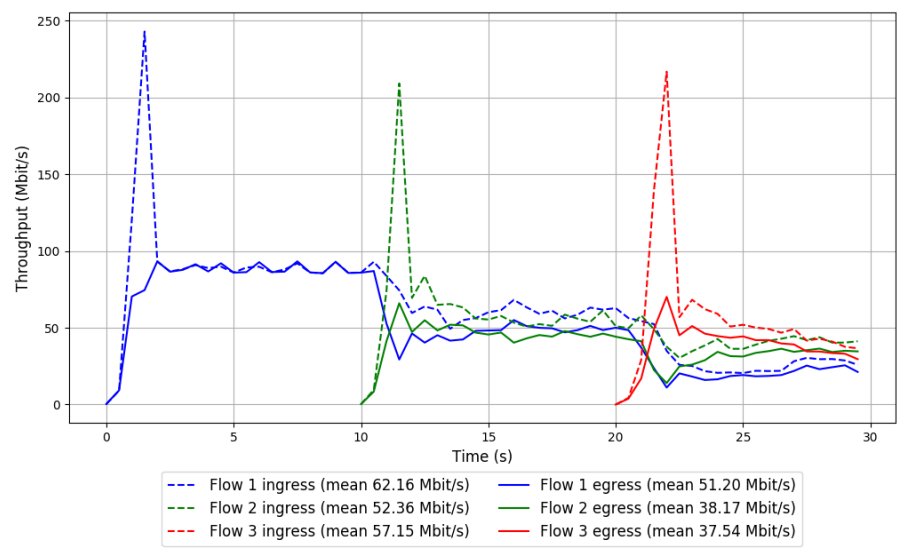
-- Flow 3:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 33.262 ms

Loss rate: 34.45%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-05 00:40:05

End at: 2018-02-05 00:40:35

Local clock offset: 2.064 ms

Remote clock offset: 2.698 ms

Below is generated by plot.py at 2018-02-05 03:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.98 Mbit/s

95th percentile per-packet one-way delay: 29.994 ms

Loss rate: 18.64%

-- Flow 1:

Average throughput: 54.30 Mbit/s

95th percentile per-packet one-way delay: 28.530 ms

Loss rate: 14.37%

-- Flow 2:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 30.887 ms

Loss rate: 20.53%

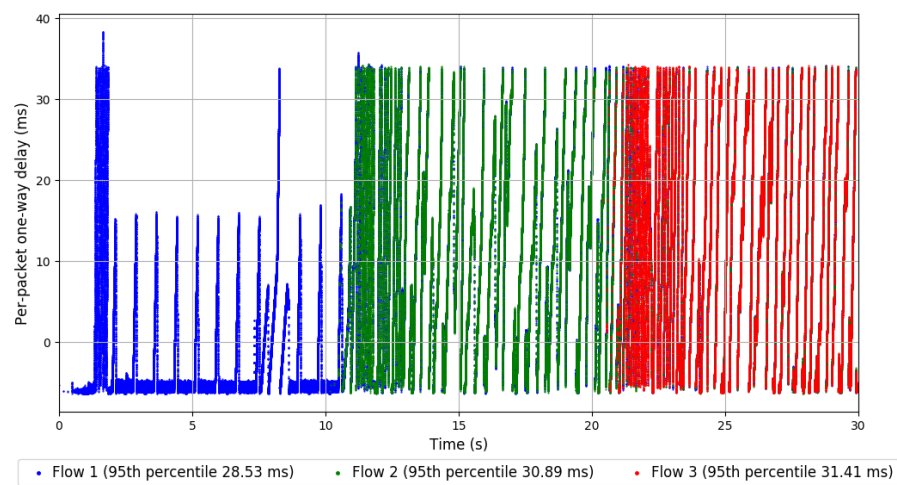
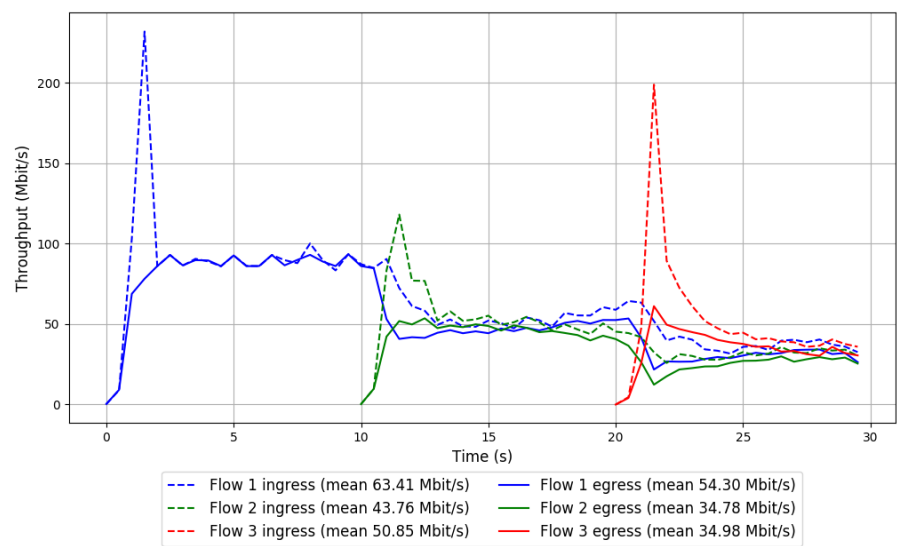
-- Flow 3:

Average throughput: 34.98 Mbit/s

95th percentile per-packet one-way delay: 31.412 ms

Loss rate: 31.46%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-05 01:05:10

End at: 2018-02-05 01:05:40

Local clock offset: 2.007 ms

Remote clock offset: 3.286 ms

Below is generated by plot.py at 2018-02-05 03:37:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 30.578 ms

Loss rate: 20.40%

-- Flow 1:

Average throughput: 49.90 Mbit/s

95th percentile per-packet one-way delay: 28.221 ms

Loss rate: 14.50%

-- Flow 2:

Average throughput: 38.25 Mbit/s

95th percentile per-packet one-way delay: 31.836 ms

Loss rate: 22.44%

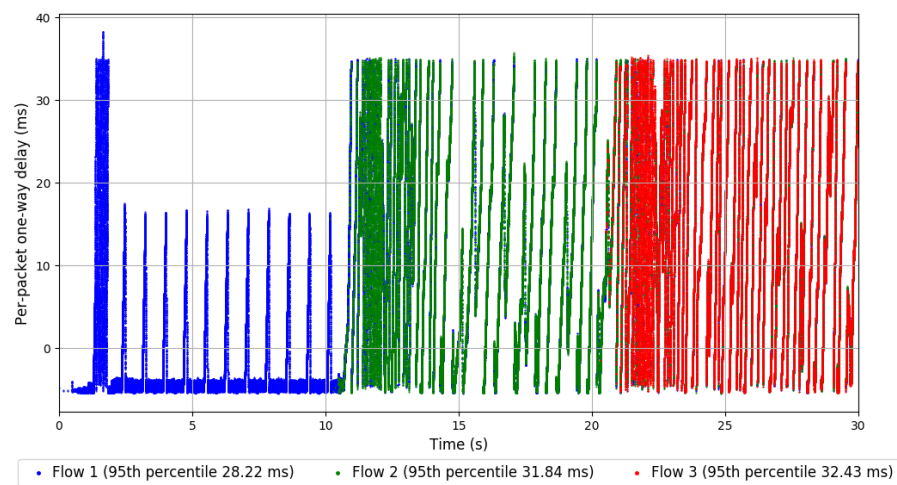
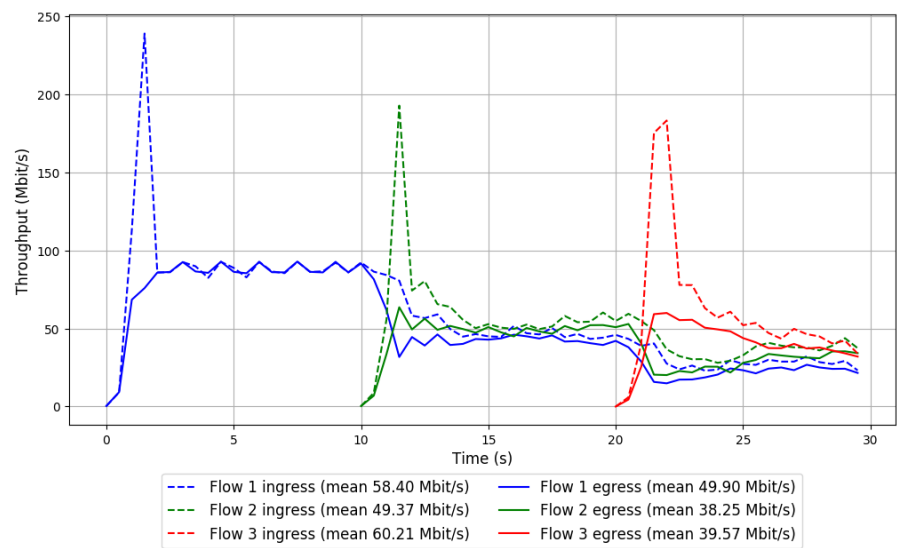
-- Flow 3:

Average throughput: 39.57 Mbit/s

95th percentile per-packet one-way delay: 32.432 ms

Loss rate: 34.30%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-05 01:29:34

End at: 2018-02-05 01:30:04

Local clock offset: -0.341 ms

Remote clock offset: 3.04 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.89 Mbit/s

95th percentile per-packet one-way delay: 31.773 ms

Loss rate: 22.15%

-- Flow 1:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 30.002 ms

Loss rate: 16.64%

-- Flow 2:

Average throughput: 35.17 Mbit/s

95th percentile per-packet one-way delay: 32.800 ms

Loss rate: 26.57%

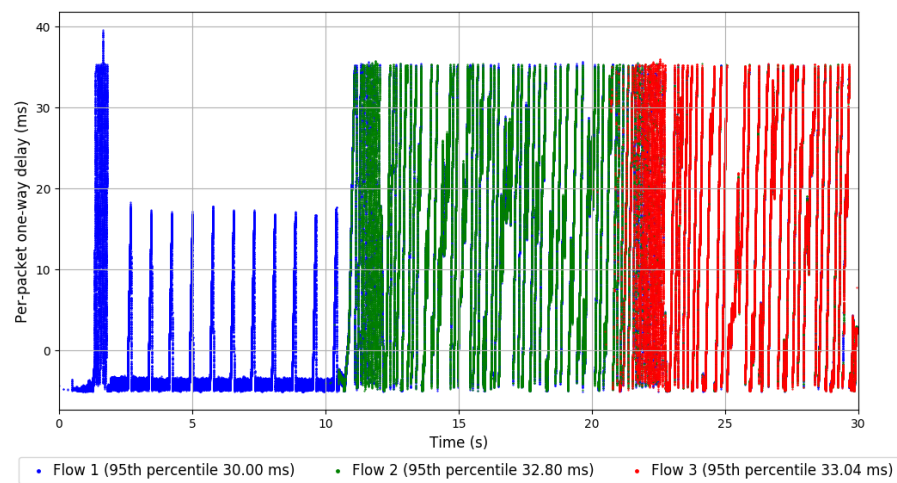
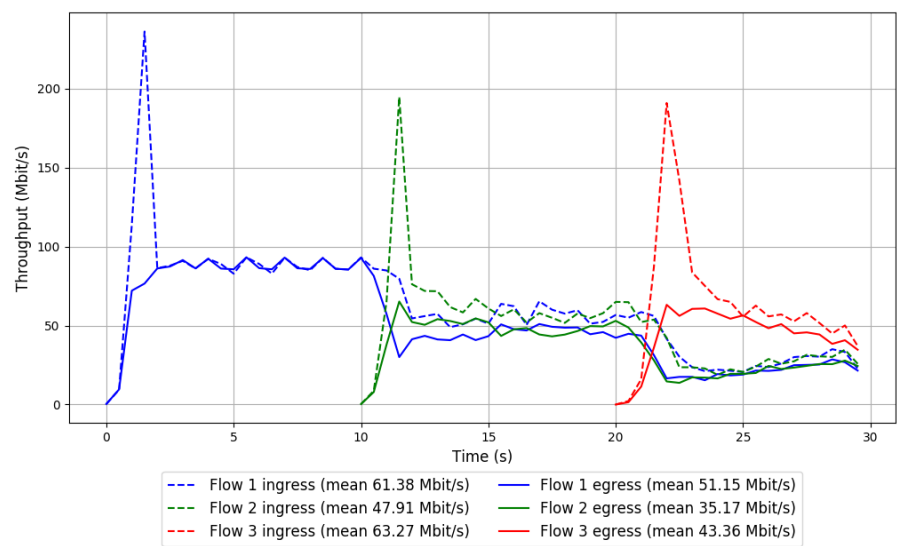
-- Flow 3:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 33.038 ms

Loss rate: 31.56%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-05 01:54:34

End at: 2018-02-05 01:55:04

Local clock offset: 2.912 ms

Remote clock offset: 1.736 ms

Below is generated by plot.py at 2018-02-05 03:37:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 27.509 ms

Loss rate: 21.45%

-- Flow 1:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 25.898 ms

Loss rate: 15.98%

-- Flow 2:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 28.496 ms

Loss rate: 26.23%

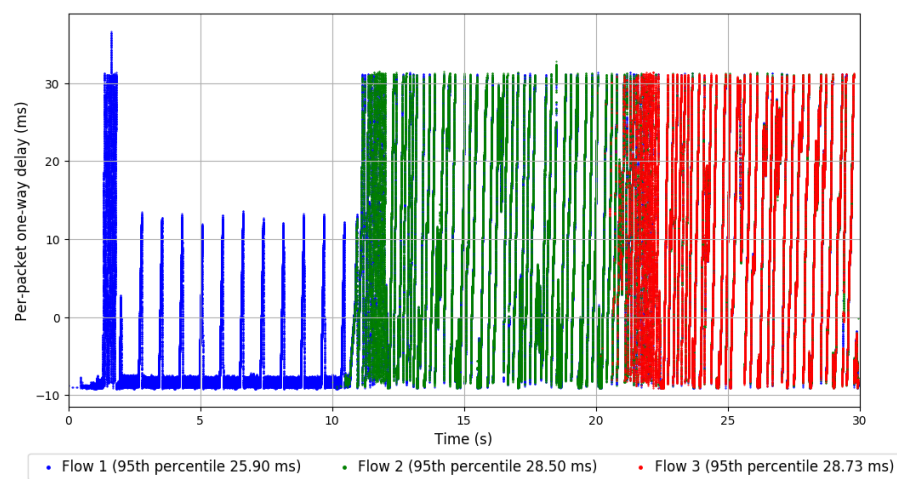
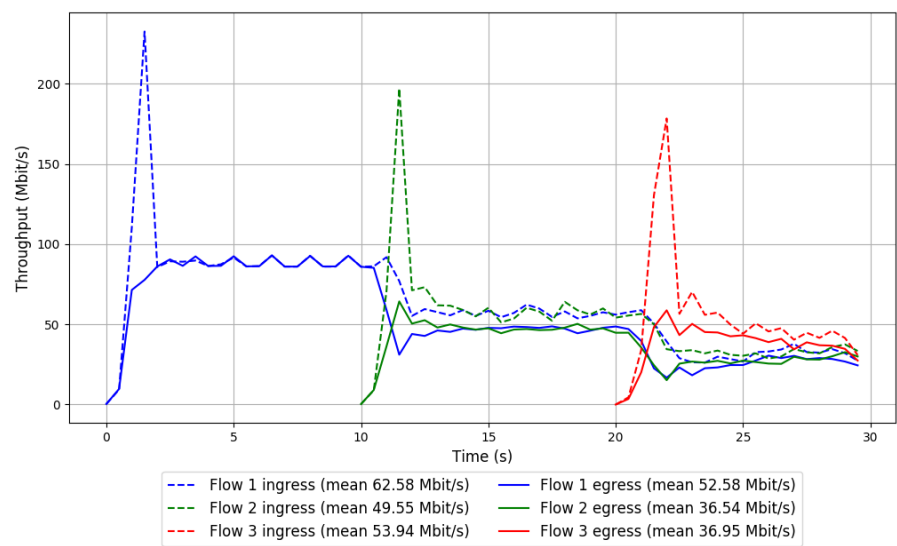
-- Flow 3:

Average throughput: 36.95 Mbit/s

95th percentile per-packet one-way delay: 28.732 ms

Loss rate: 31.76%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-05 02:19:32

End at: 2018-02-05 02:20:02

Local clock offset: 1.494 ms

Remote clock offset: 2.455 ms

Below is generated by plot.py at 2018-02-05 03:38:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 30.417 ms

Loss rate: 20.63%

-- Flow 1:

Average throughput: 46.71 Mbit/s

95th percentile per-packet one-way delay: 28.308 ms

Loss rate: 15.55%

-- Flow 2:

Average throughput: 41.70 Mbit/s

95th percentile per-packet one-way delay: 31.137 ms

Loss rate: 24.38%

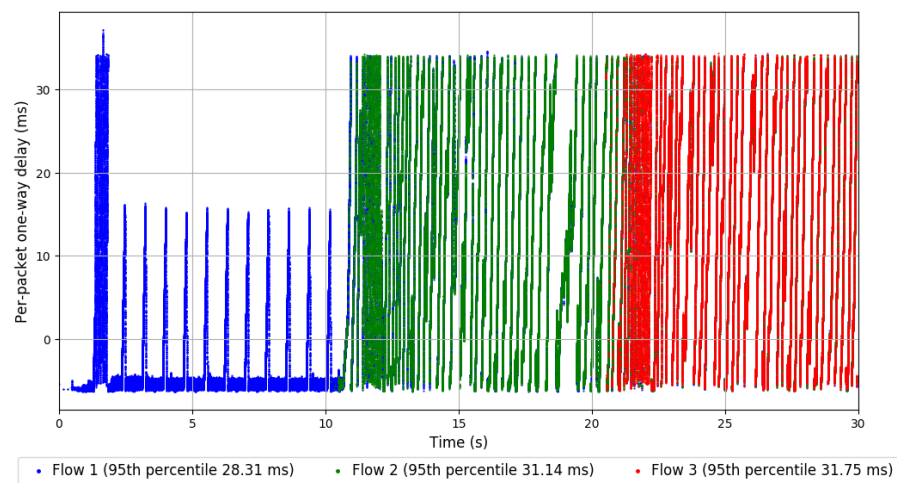
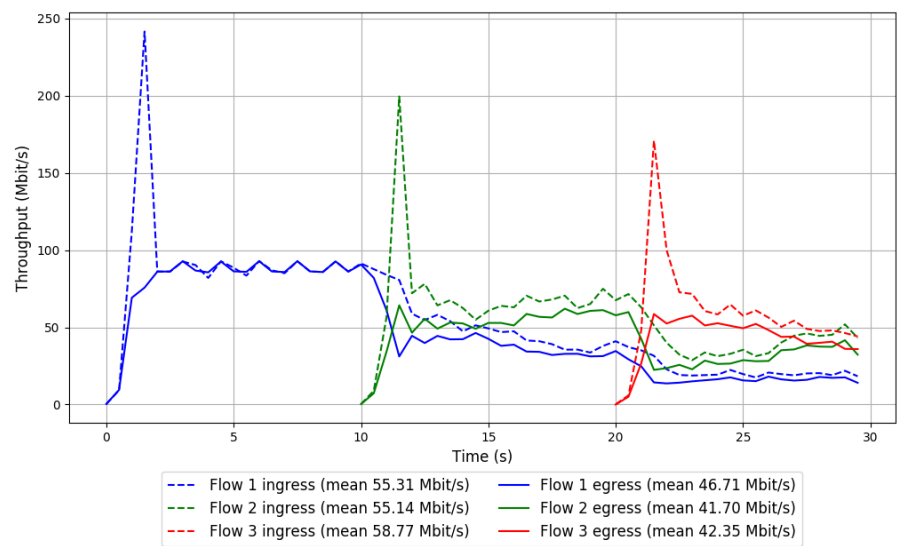
-- Flow 3:

Average throughput: 42.35 Mbit/s

95th percentile per-packet one-way delay: 31.749 ms

Loss rate: 28.00%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-05 02:44:17

End at: 2018-02-05 02:44:47

Local clock offset: 4.068 ms

Remote clock offset: 2.126 ms

Below is generated by plot.py at 2018-02-05 03:38:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 26.323 ms

Loss rate: 19.37%

-- Flow 1:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 24.168 ms

Loss rate: 15.36%

-- Flow 2:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 27.442 ms

Loss rate: 23.08%

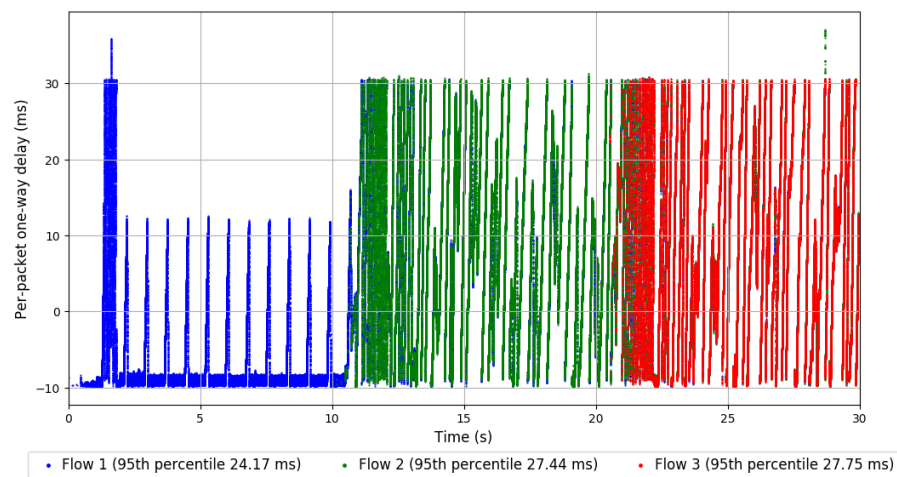
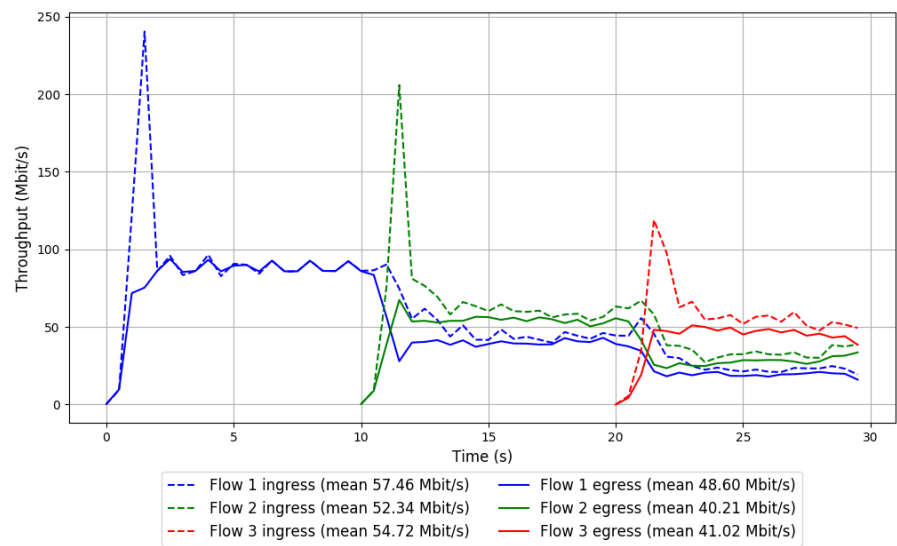
-- Flow 3:

Average throughput: 41.02 Mbit/s

95th percentile per-packet one-way delay: 27.755 ms

Loss rate: 24.96%

Run 10: Report of FillP — Data Link

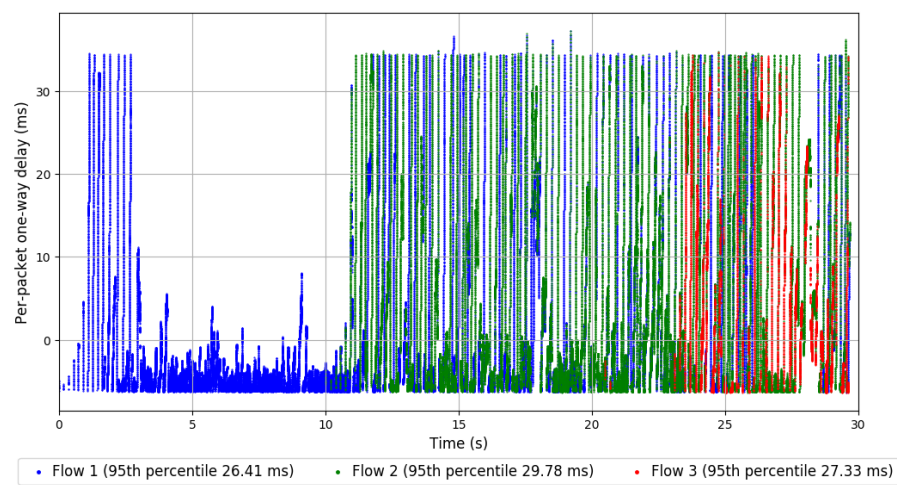
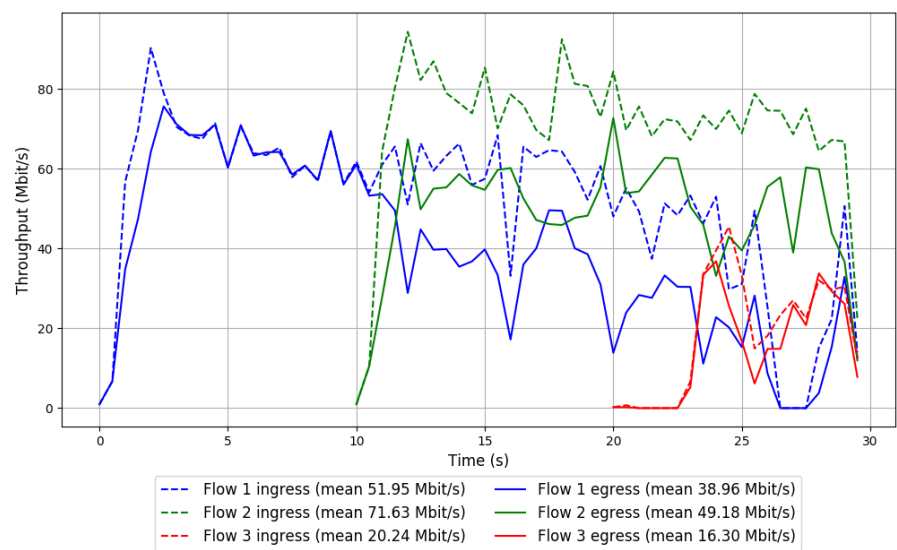


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-04 22:51:06
End at: 2018-02-04 22:51:36
Local clock offset: 0.433 ms
Remote clock offset: 9.034 ms

# Below is generated by plot.py at 2018-02-05 03:38:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 28.373 ms
Loss rate: 27.47%
-- Flow 1:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 26.413 ms
Loss rate: 24.96%
-- Flow 2:
Average throughput: 49.18 Mbit/s
95th percentile per-packet one-way delay: 29.776 ms
Loss rate: 31.27%
-- Flow 3:
Average throughput: 16.30 Mbit/s
95th percentile per-packet one-way delay: 27.328 ms
Loss rate: 19.47%
```

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

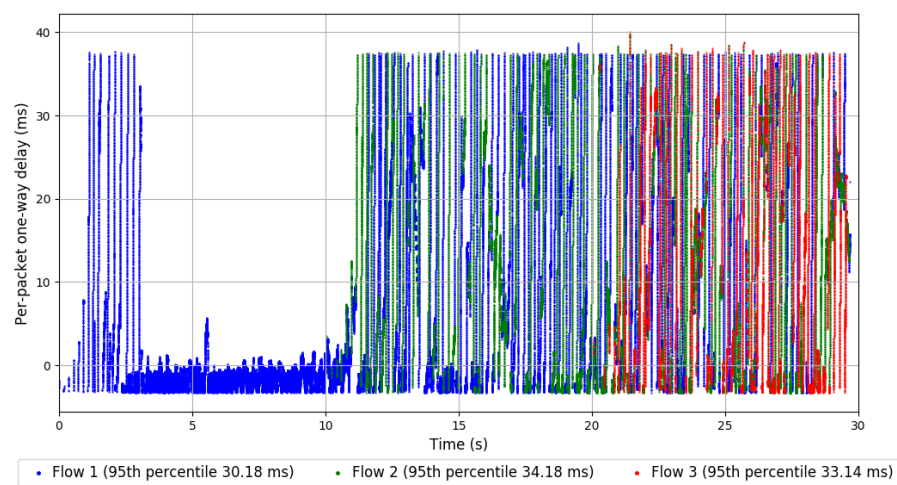
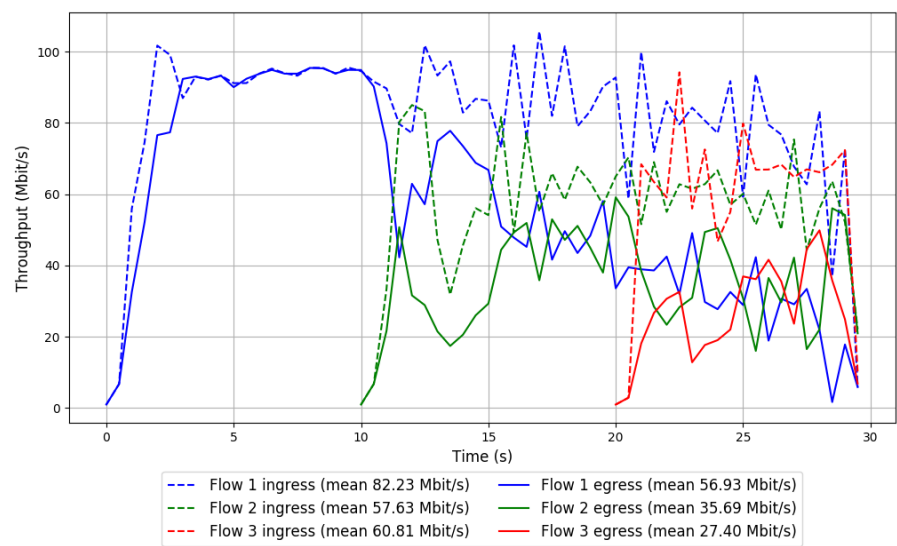


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-04 23:15:56
End at: 2018-02-04 23:16:26
Local clock offset: -3.269 ms
Remote clock offset: 12.546 ms

Below is generated by plot.py at 2018-02-05 03:38:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 32.277 ms
Loss rate: 36.06%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 30.182 ms
Loss rate: 30.71%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 34.182 ms
Loss rate: 38.03%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 33.144 ms
Loss rate: 54.85%

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

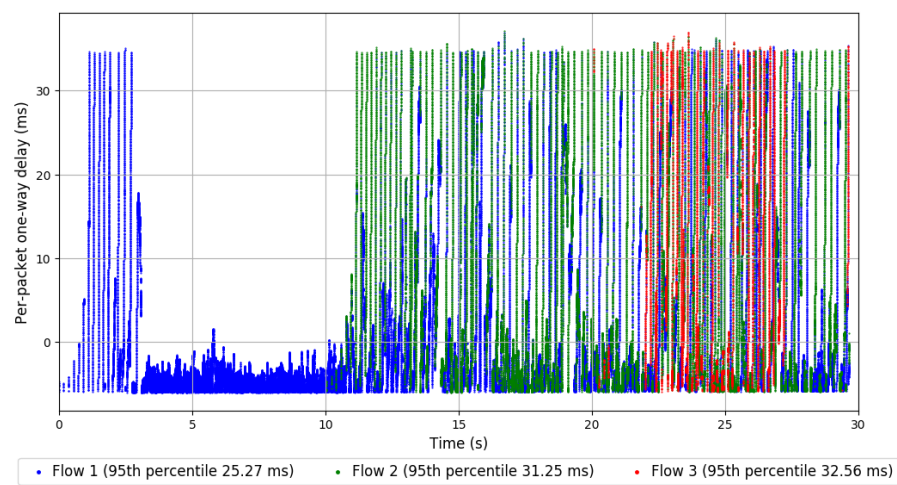
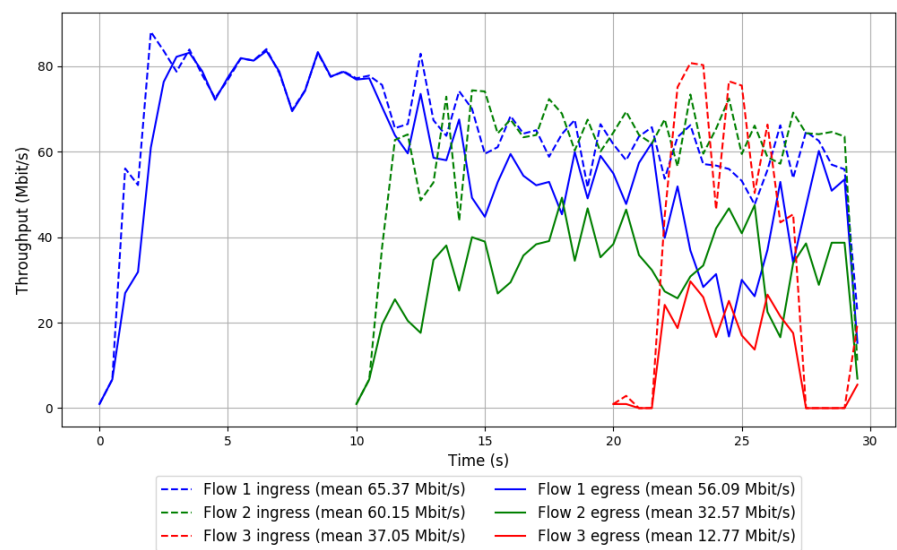


Run 3: Statistics of Indigo-1-32

Start at: 2018-02-04 23:40:51
End at: 2018-02-04 23:41:21
Local clock offset: -0.603 ms
Remote clock offset: 11.381 ms

Below is generated by plot.py at 2018-02-05 03:38:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.74 Mbit/s
95th percentile per-packet one-way delay: 28.377 ms
Loss rate: 30.19%
-- Flow 1:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 25.274 ms
Loss rate: 14.19%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 31.250 ms
Loss rate: 45.86%
-- Flow 3:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 32.561 ms
Loss rate: 65.55%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-05 00:05:16

End at: 2018-02-05 00:05:46

Local clock offset: 4.254 ms

Remote clock offset: 8.164 ms

Below is generated by plot.py at 2018-02-05 03:38:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 25.820 ms

Loss rate: 30.93%

-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 24.647 ms

Loss rate: 31.58%

-- Flow 2:

Average throughput: 44.48 Mbit/s

95th percentile per-packet one-way delay: 27.061 ms

Loss rate: 29.77%

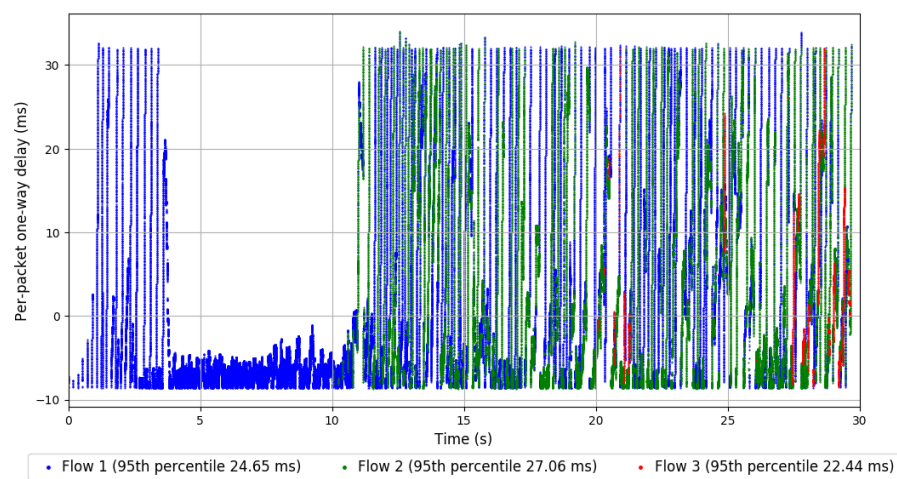
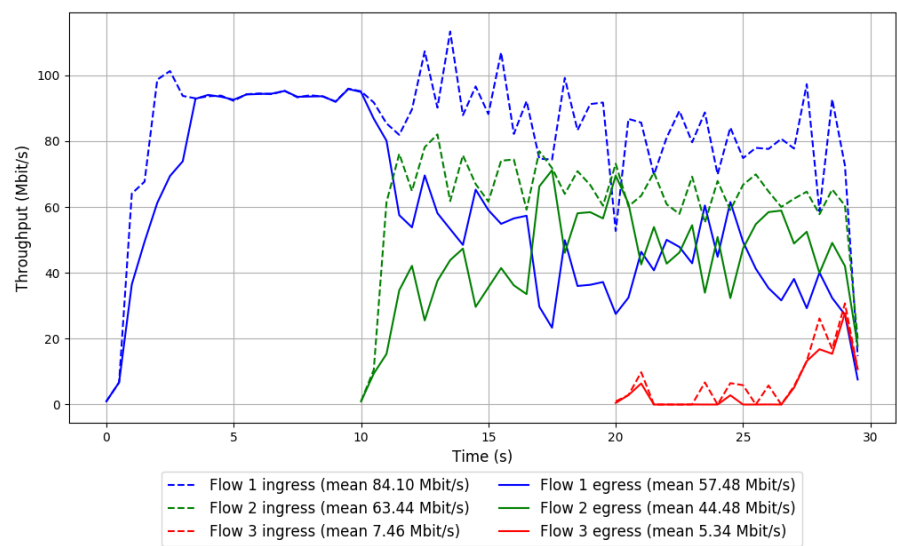
-- Flow 3:

Average throughput: 5.34 Mbit/s

95th percentile per-packet one-way delay: 22.442 ms

Loss rate: 28.40%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-05 00:30:18

End at: 2018-02-05 00:30:48

Local clock offset: 2.98 ms

Remote clock offset: 4.466 ms

Below is generated by plot.py at 2018-02-05 03:38:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 28.457 ms

Loss rate: 25.97%

-- Flow 1:

Average throughput: 65.56 Mbit/s

95th percentile per-packet one-way delay: 27.822 ms

Loss rate: 25.55%

-- Flow 2:

Average throughput: 25.41 Mbit/s

95th percentile per-packet one-way delay: 27.894 ms

Loss rate: 18.53%

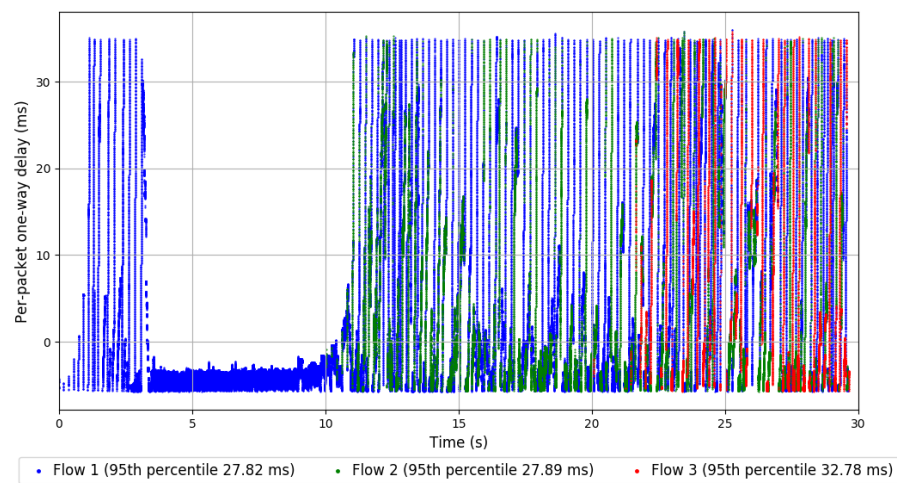
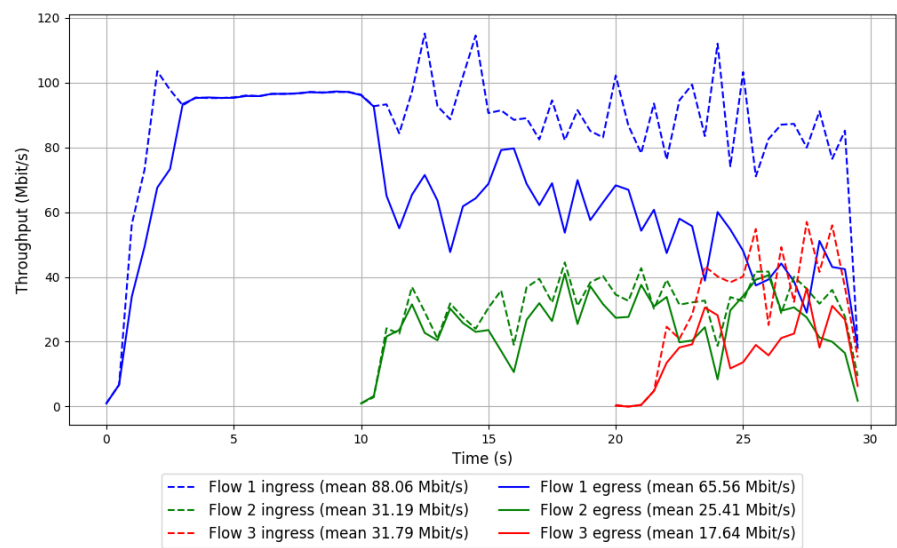
-- Flow 3:

Average throughput: 17.64 Mbit/s

95th percentile per-packet one-way delay: 32.785 ms

Loss rate: 44.53%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-05 00:55:31

End at: 2018-02-05 00:56:01

Local clock offset: 2.202 ms

Remote clock offset: 3.194 ms

Below is generated by plot.py at 2018-02-05 03:39:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 29.615 ms

Loss rate: 28.32%

-- Flow 1:

Average throughput: 63.26 Mbit/s

95th percentile per-packet one-way delay: 28.456 ms

Loss rate: 27.03%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 31.210 ms

Loss rate: 26.61%

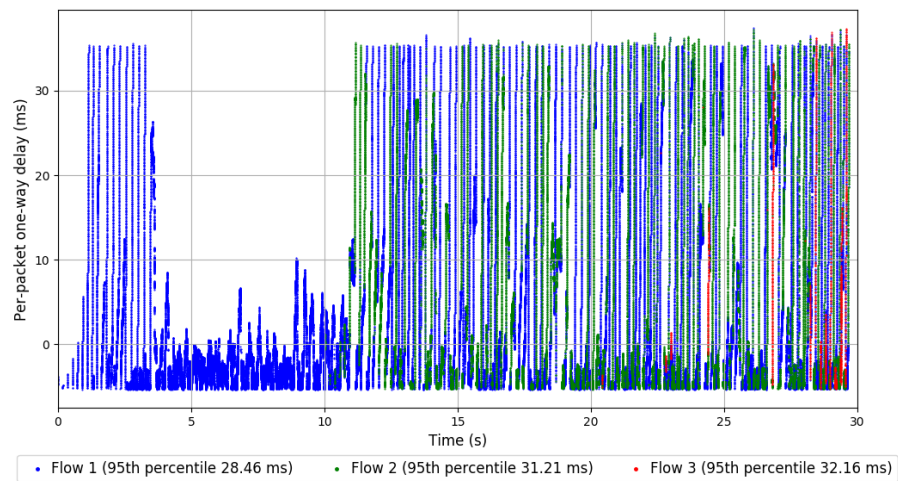
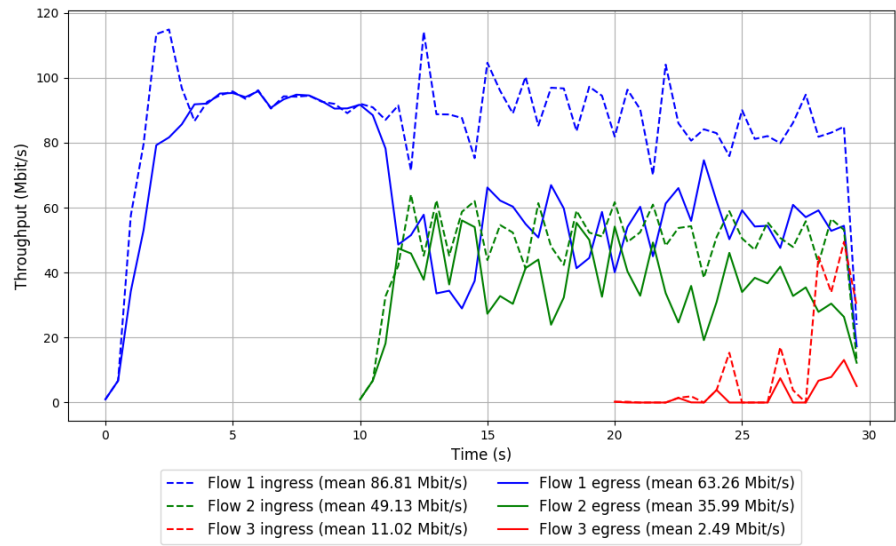
-- Flow 3:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 32.159 ms

Loss rate: 77.34%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-05 01:20:10

End at: 2018-02-05 01:20:40

Local clock offset: 2.655 ms

Remote clock offset: 3.183 ms

Below is generated by plot.py at 2018-02-05 03:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 28.549 ms

Loss rate: 32.94%

-- Flow 1:

Average throughput: 60.52 Mbit/s

95th percentile per-packet one-way delay: 28.068 ms

Loss rate: 30.97%

-- Flow 2:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 29.442 ms

Loss rate: 31.91%

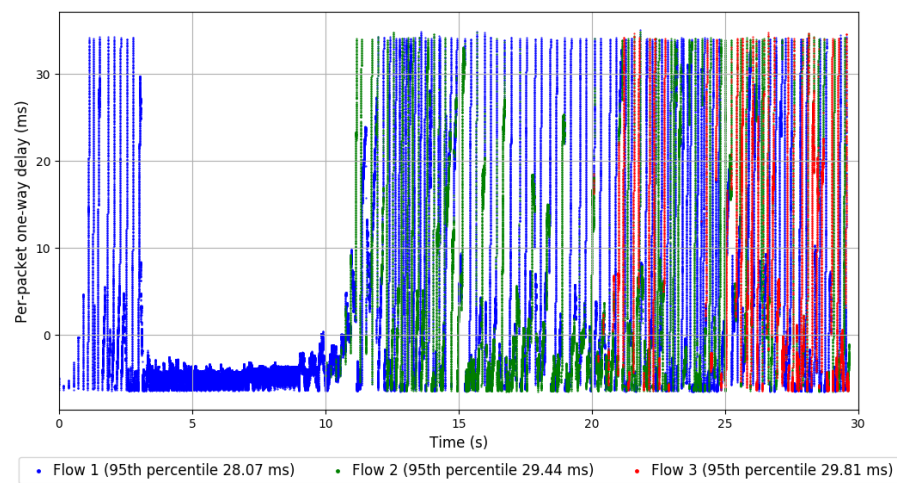
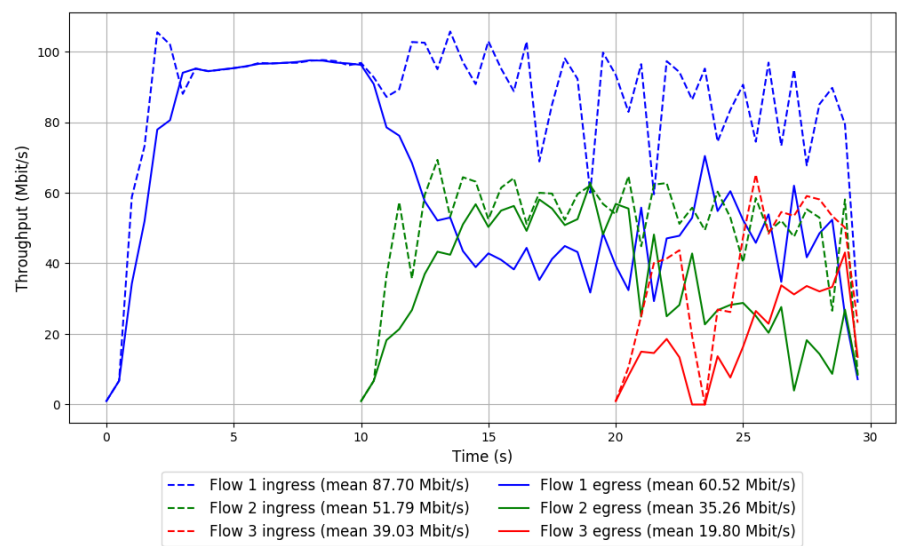
-- Flow 3:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 29.809 ms

Loss rate: 49.37%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-05 01:44:46

End at: 2018-02-05 01:45:16

Local clock offset: -0.877 ms

Remote clock offset: 1.396 ms

Below is generated by plot.py at 2018-02-05 03:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 29.791 ms

Loss rate: 28.41%

-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 29.021 ms

Loss rate: 28.68%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 30.917 ms

Loss rate: 26.78%

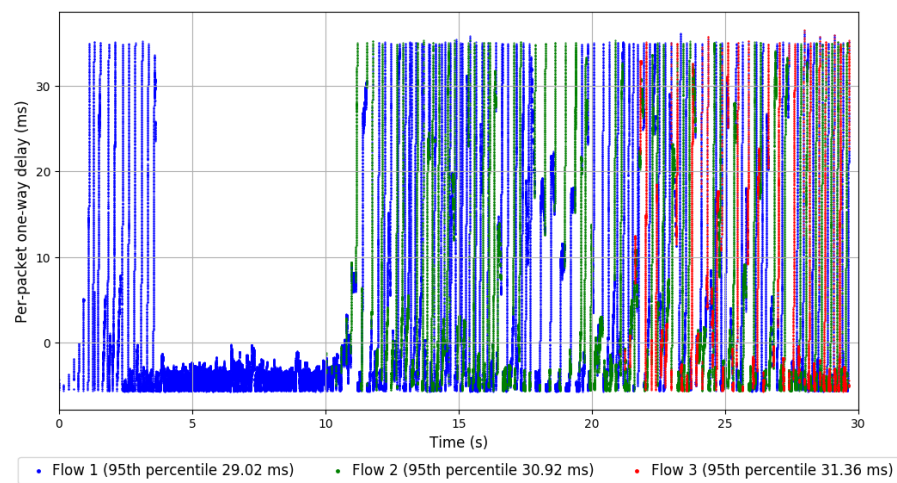
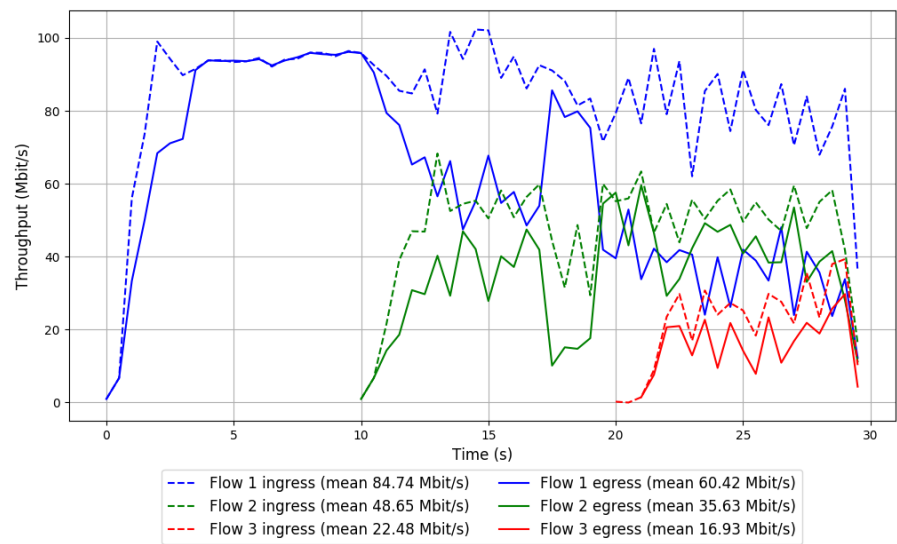
-- Flow 3:

Average throughput: 16.93 Mbit/s

95th percentile per-packet one-way delay: 31.365 ms

Loss rate: 32.55%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-05 02:09:58

End at: 2018-02-05 02:10:28

Local clock offset: 1.148 ms

Remote clock offset: 1.467 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 28.143 ms

Loss rate: 32.34%

-- Flow 1:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 26.388 ms

Loss rate: 23.73%

-- Flow 2:

Average throughput: 28.17 Mbit/s

95th percentile per-packet one-way delay: 30.310 ms

Loss rate: 42.57%

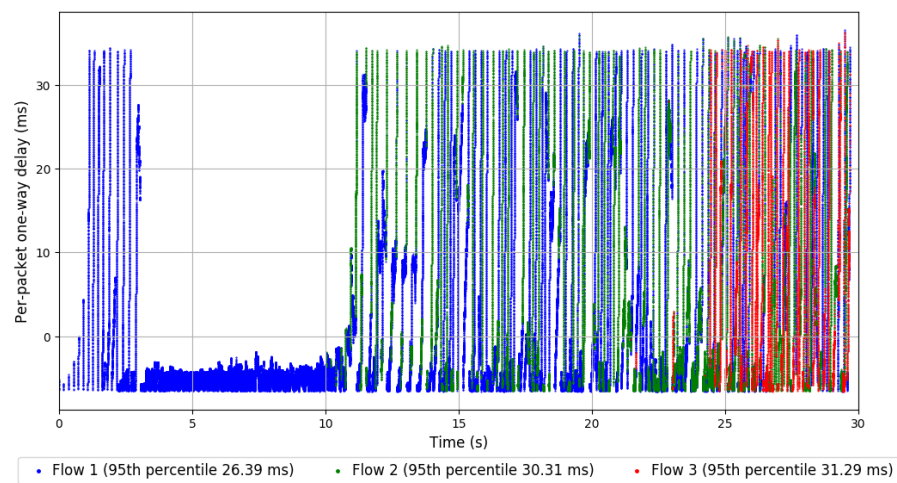
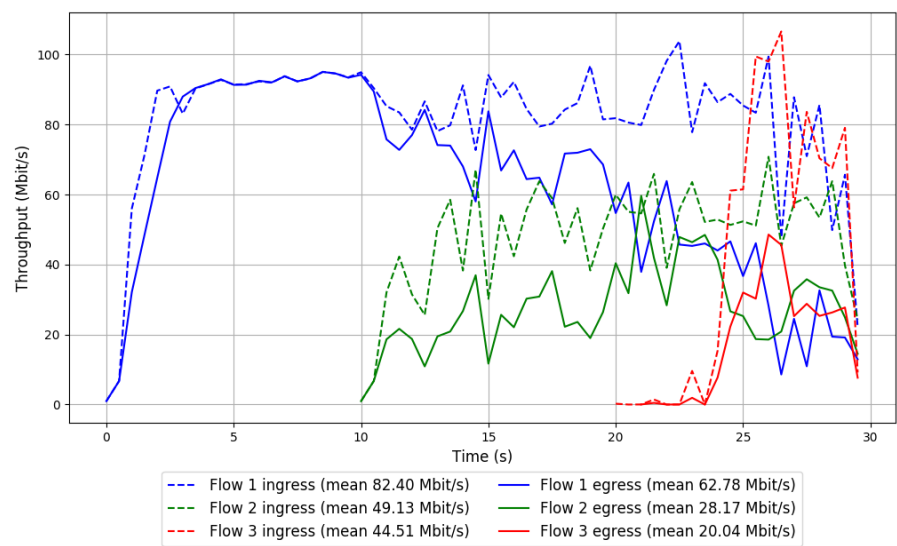
-- Flow 3:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 31.288 ms

Loss rate: 59.74%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-05 02:34:34

End at: 2018-02-05 02:35:04

Local clock offset: 3.114 ms

Remote clock offset: 1.905 ms

Below is generated by plot.py at 2018-02-05 03:40:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 26.653 ms

Loss rate: 34.81%

-- Flow 1:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 24.893 ms

Loss rate: 27.39%

-- Flow 2:

Average throughput: 31.86 Mbit/s

95th percentile per-packet one-way delay: 28.733 ms

Loss rate: 50.69%

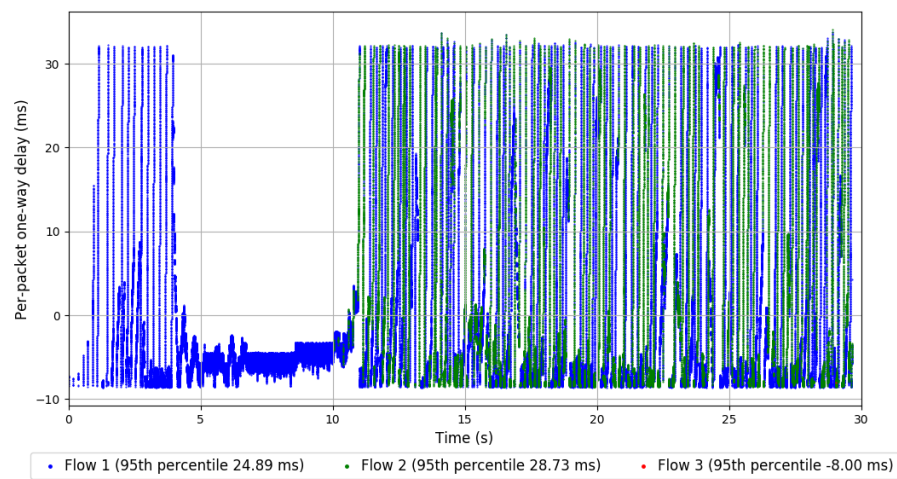
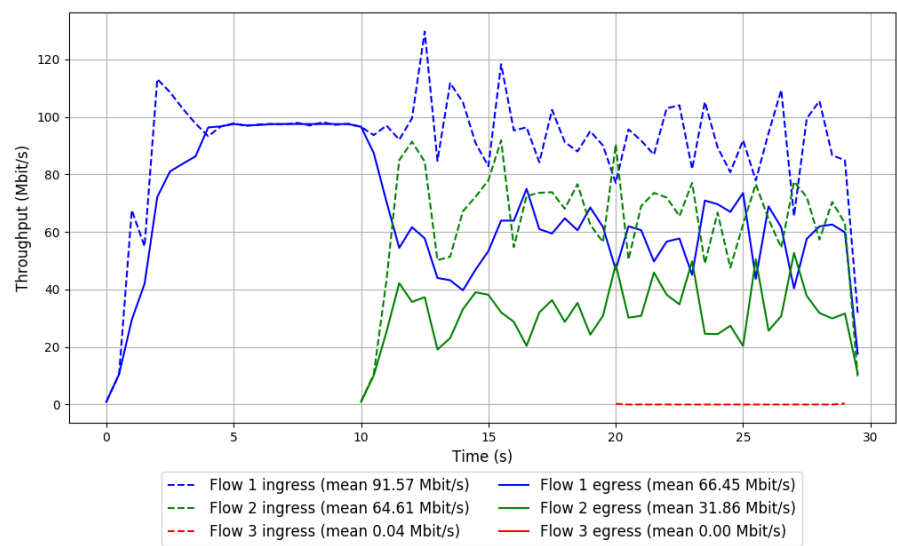
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: -7.999 ms

Loss rate: 96.44%

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

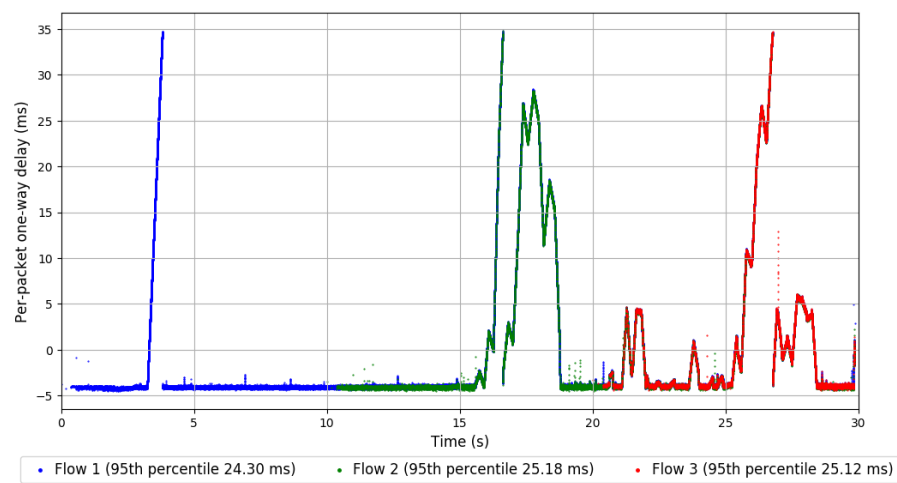
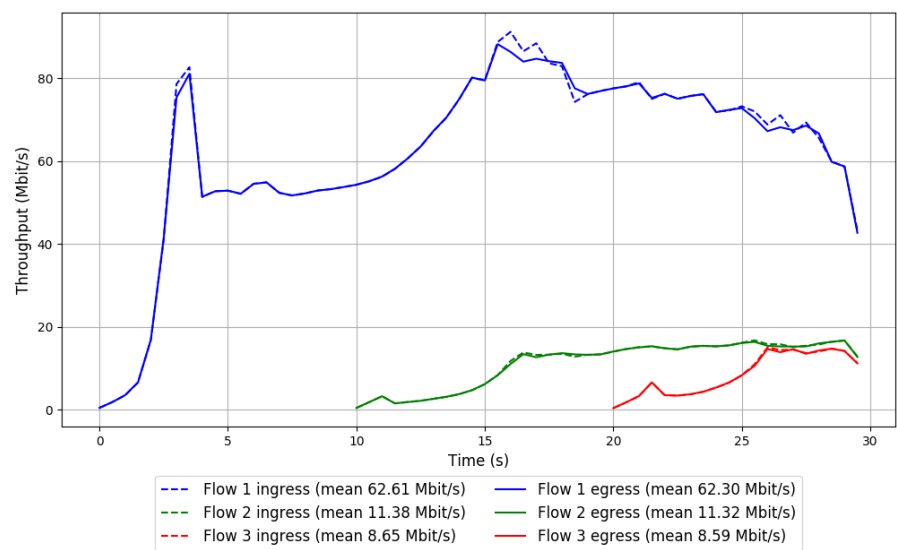


Run 1: Statistics of Vivace-latency

Start at: 2018-02-04 23:13:12
End at: 2018-02-04 23:13:42
Local clock offset: -2.618 ms
Remote clock offset: 11.804 ms

Below is generated by plot.py at 2018-02-05 03:40:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 24.476 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 62.30 Mbit/s
95th percentile per-packet one-way delay: 24.299 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 25.176 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 25.117 ms
Loss rate: 0.66%

Run 1: Report of Vivace-latency — Data Link

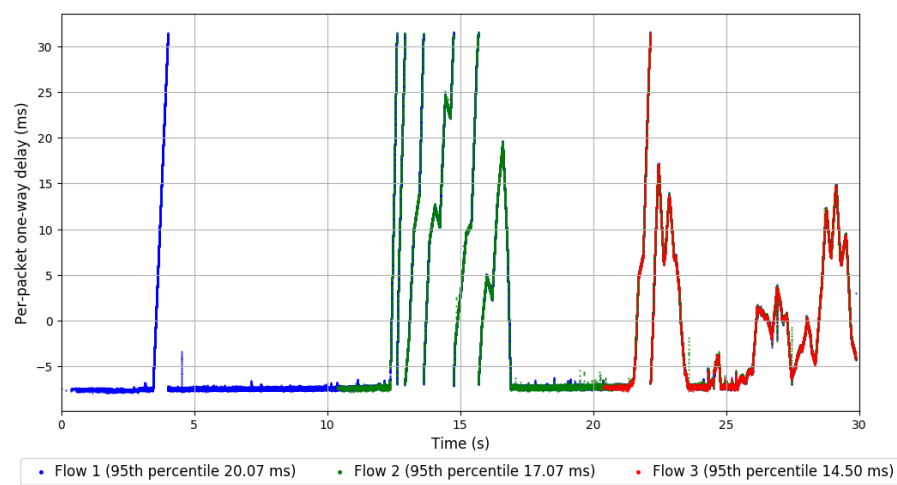
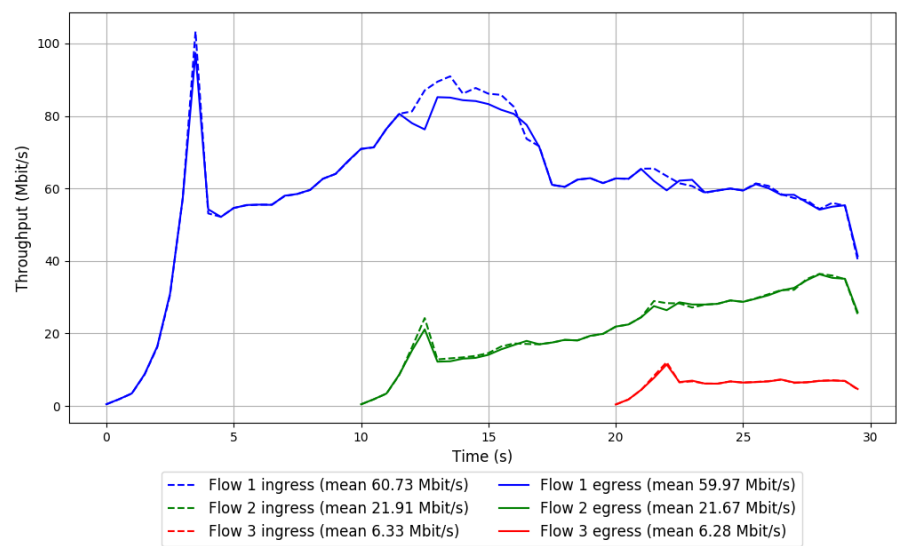


Run 2: Statistics of Vivace-latency

Start at: 2018-02-04 23:38:10
End at: 2018-02-04 23:38:40
Local clock offset: 1.221 ms
Remote clock offset: 12.743 ms

Below is generated by plot.py at 2018-02-05 03:40:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.45 Mbit/s
95th percentile per-packet one-way delay: 19.265 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 59.97 Mbit/s
95th percentile per-packet one-way delay: 20.075 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 17.066 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 14.502 ms
Loss rate: 0.79%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-05 00:02:39

End at: 2018-02-05 00:03:09

Local clock offset: 2.279 ms

Remote clock offset: 9.509 ms

Below is generated by plot.py at 2018-02-05 03:40:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.75 Mbit/s

95th percentile per-packet one-way delay: 16.872 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 16.927 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 12.70 Mbit/s

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

Loss rate: 0.00%

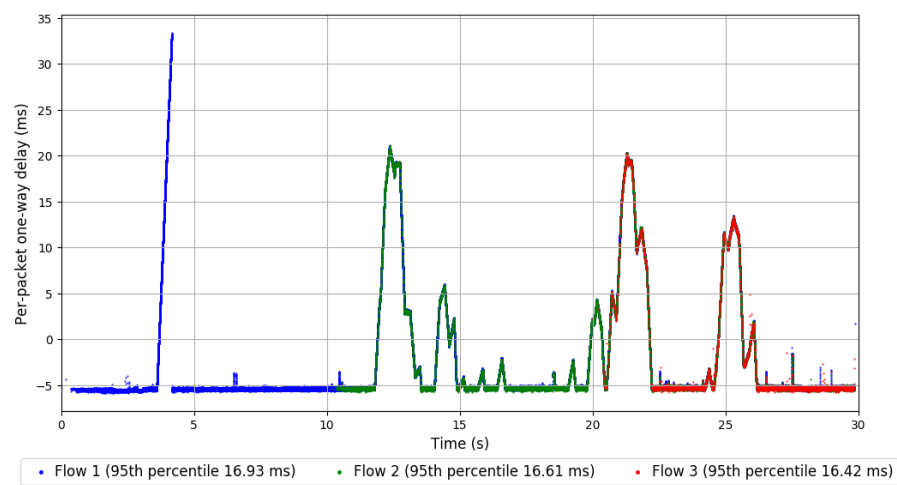
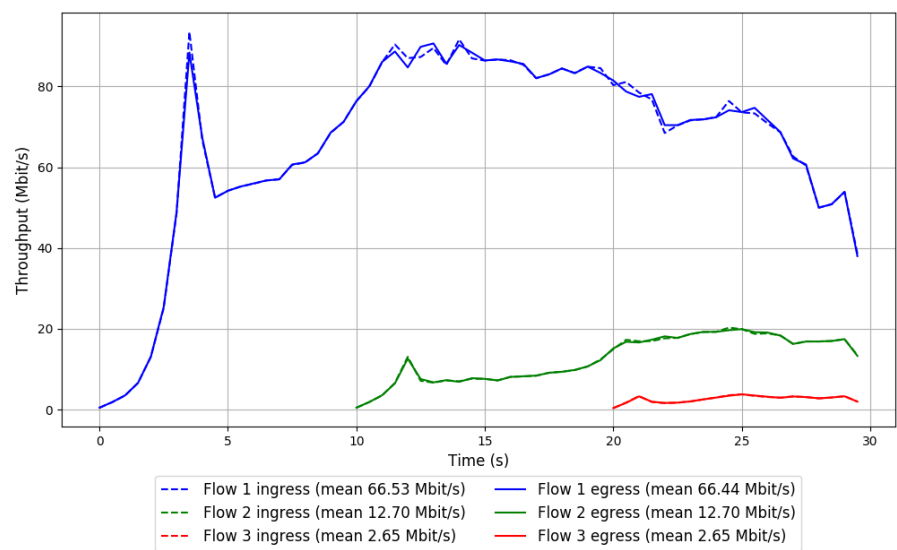
-- Flow 3:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 16.423 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-05 00:27:48

End at: 2018-02-05 00:28:18

Local clock offset: 2.546 ms

Remote clock offset: 4.52 ms

Below is generated by plot.py at 2018-02-05 03:40:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: -5.047 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: -5.008 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: -5.090 ms

Loss rate: 0.00%

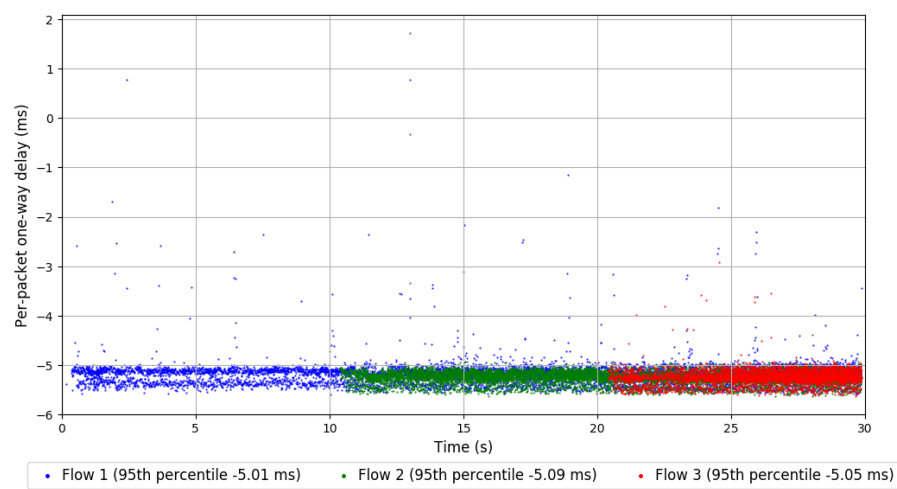
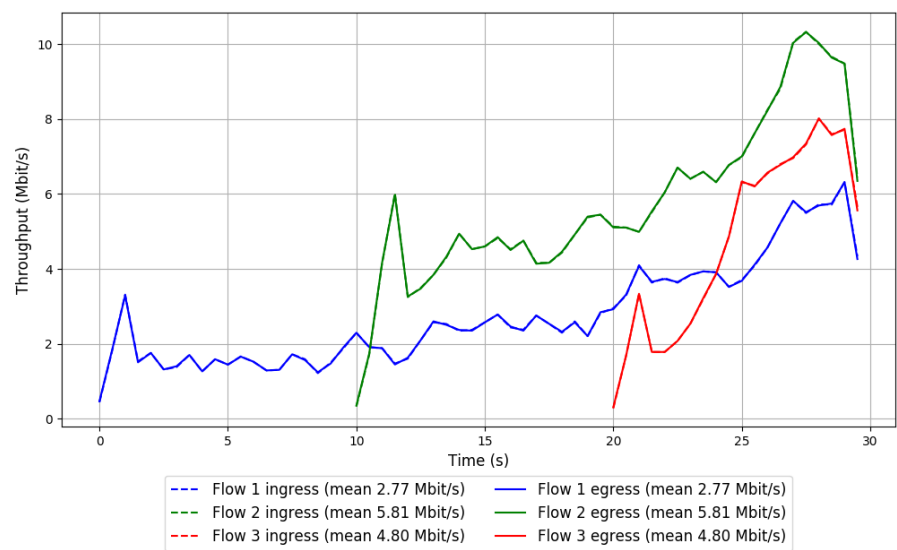
-- Flow 3:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: -5.047 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-05 00:52:52

End at: 2018-02-05 00:53:22

Local clock offset: 1.704 ms

Remote clock offset: 1.966 ms

Below is generated by plot.py at 2018-02-05 03:40:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.88 Mbit/s

95th percentile per-packet one-way delay: 26.690 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 64.66 Mbit/s

95th percentile per-packet one-way delay: 26.354 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 27.416 ms

Loss rate: 0.53%

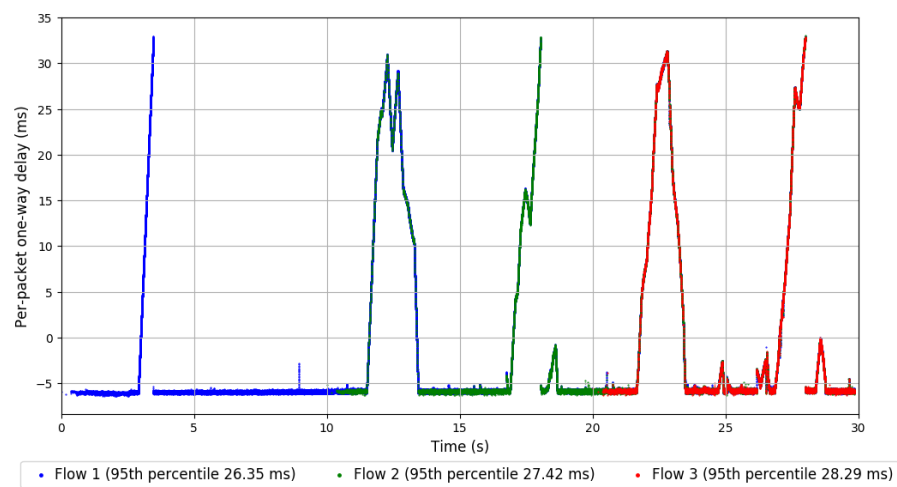
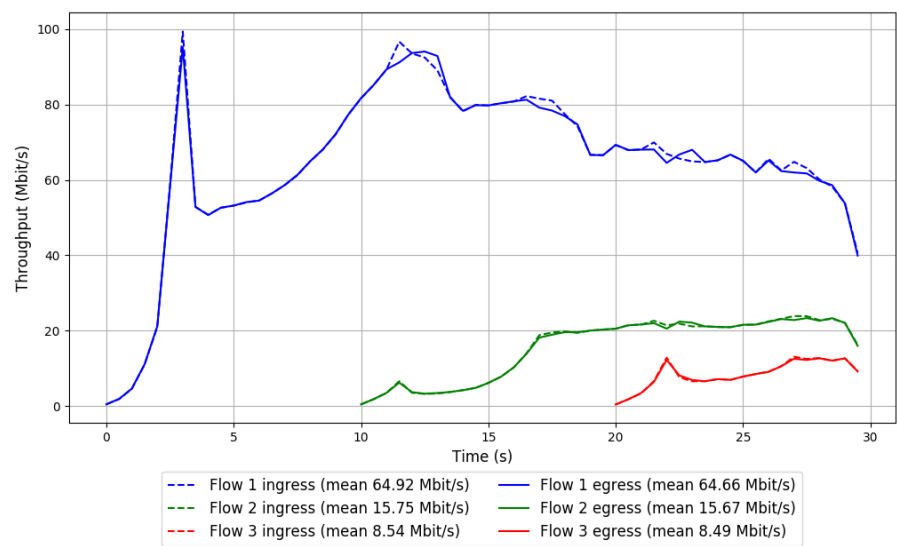
-- Flow 3:

Average throughput: 8.49 Mbit/s

95th percentile per-packet one-way delay: 28.287 ms

Loss rate: 0.55%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-05 01:17:33

End at: 2018-02-05 01:18:03

Local clock offset: 0.48 ms

Remote clock offset: 1.078 ms

Below is generated by plot.py at 2018-02-05 03:40:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 11.204 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 10.929 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 12.737 ms

Loss rate: 0.27%

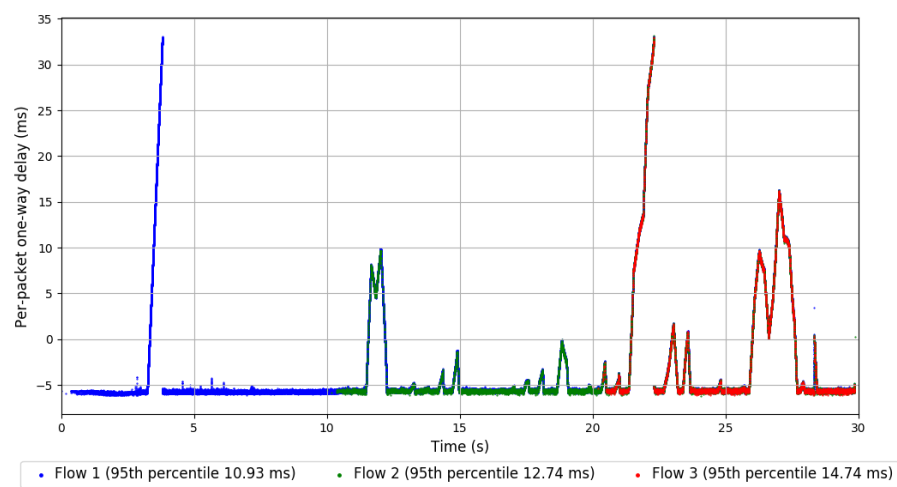
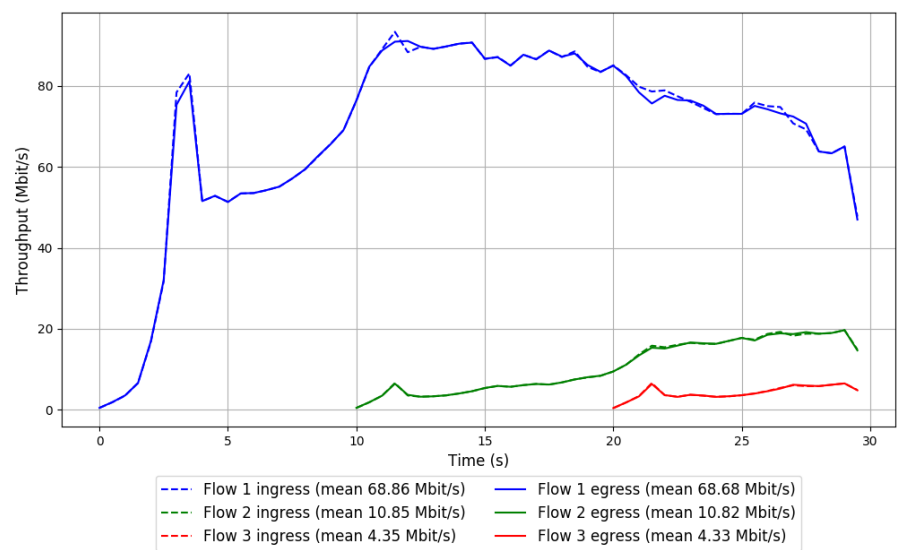
-- Flow 3:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 14.743 ms

Loss rate: 0.33%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-05 01:42:03

End at: 2018-02-05 01:42:33

Local clock offset: 1.892 ms

Remote clock offset: 3.712 ms

Below is generated by plot.py at 2018-02-05 03:41:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 11.967 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 55.15 Mbit/s

95th percentile per-packet one-way delay: 12.310 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 11.788 ms

Loss rate: 0.94%

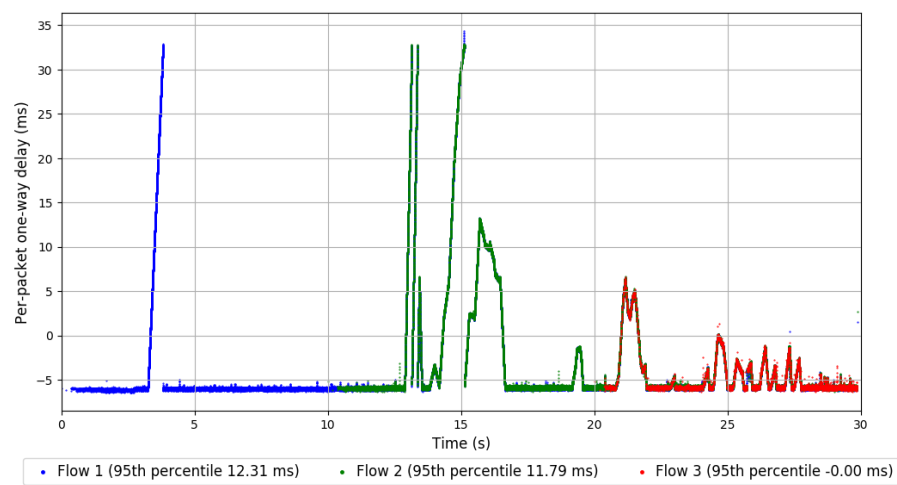
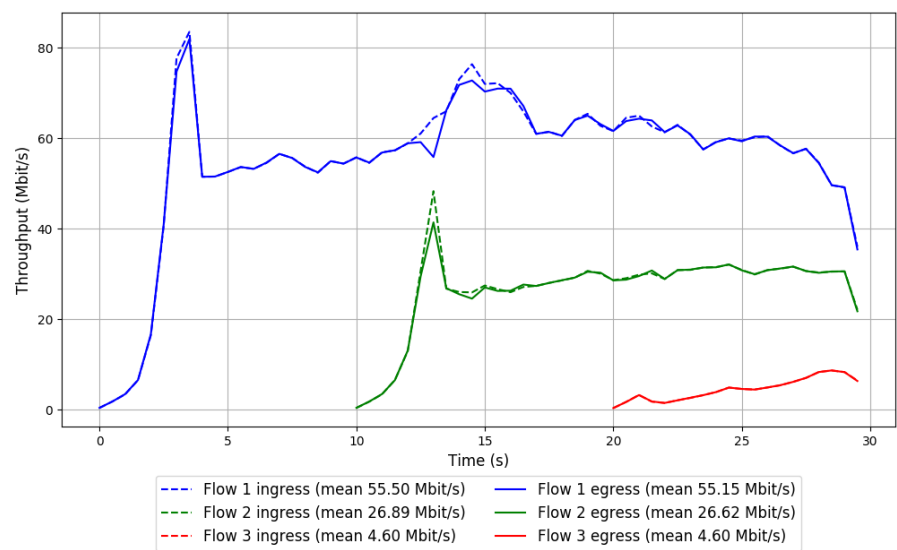
-- Flow 3:

Average throughput: 4.60 Mbit/s

95th percentile per-packet one-way delay: -0.004 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-05 02:07:16

End at: 2018-02-05 02:07:46

Local clock offset: 1.269 ms

Remote clock offset: 3.248 ms

Below is generated by plot.py at 2018-02-05 03:41:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 24.009 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 66.29 Mbit/s

95th percentile per-packet one-way delay: 24.318 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 14.23 Mbit/s

95th percentile per-packet one-way delay: 23.016 ms

Loss rate: 0.39%

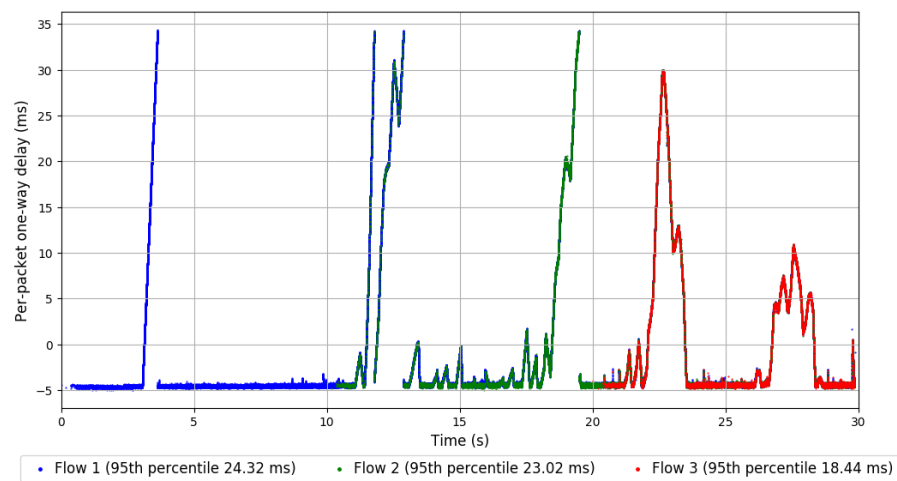
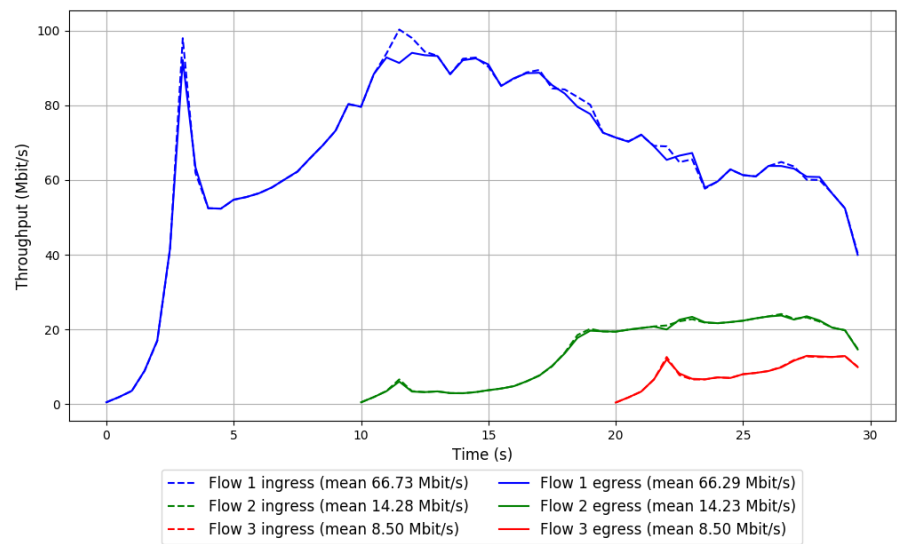
-- Flow 3:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 18.438 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-05 02:31:57

End at: 2018-02-05 02:32:27

Local clock offset: -0.023 ms

Remote clock offset: 3.073 ms

Below is generated by plot.py at 2018-02-05 03:41:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.63 Mbit/s

95th percentile per-packet one-way delay: 21.166 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 21.275 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 14.52 Mbit/s

95th percentile per-packet one-way delay: 21.400 ms

Loss rate: 0.25%

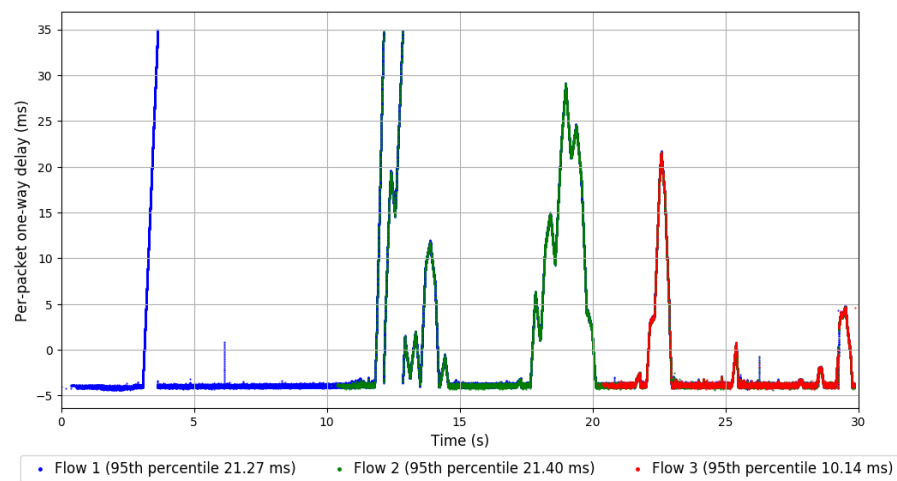
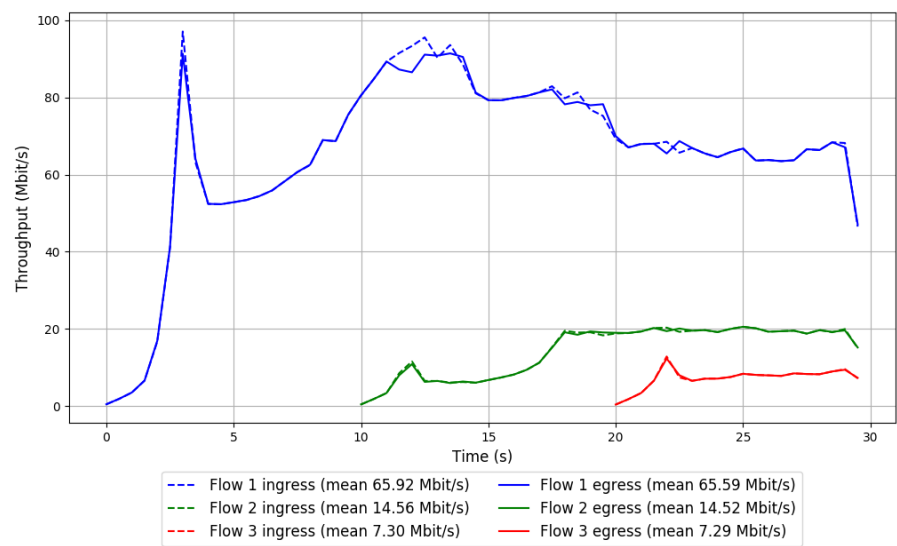
-- Flow 3:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 10.143 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-05 02:56:50

End at: 2018-02-05 02:57:20

Local clock offset: 2.059 ms

Remote clock offset: 4.211 ms

Below is generated by plot.py at 2018-02-05 03:41:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: -4.596 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: -4.543 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 16.10 Mbit/s

95th percentile per-packet one-way delay: -4.693 ms

Loss rate: 0.00%

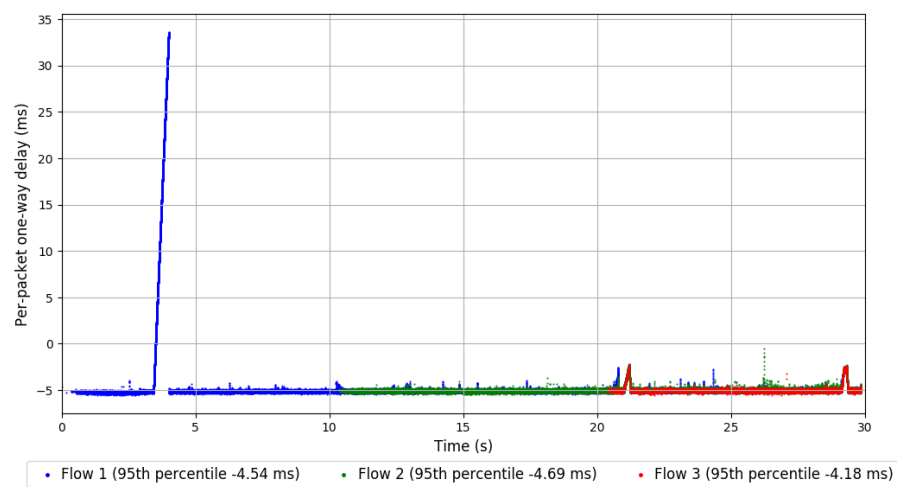
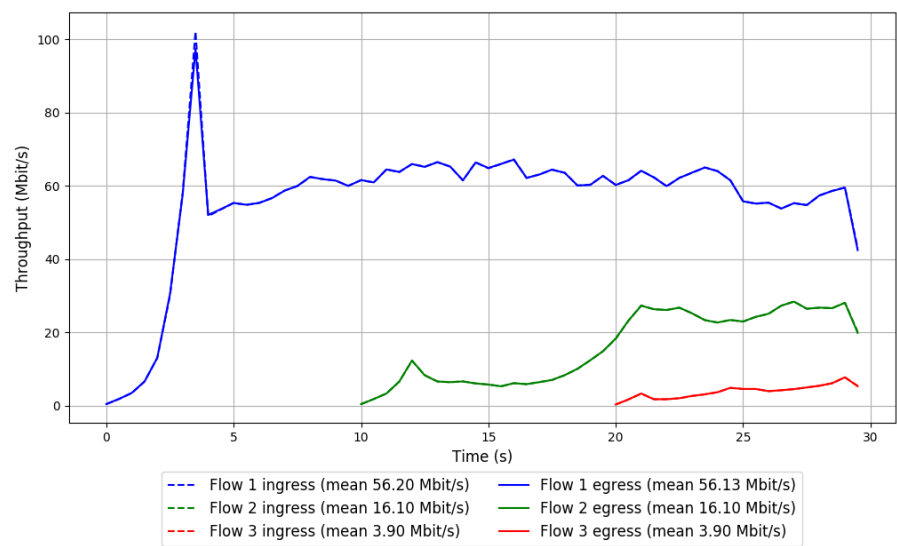
-- Flow 3:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: -4.183 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

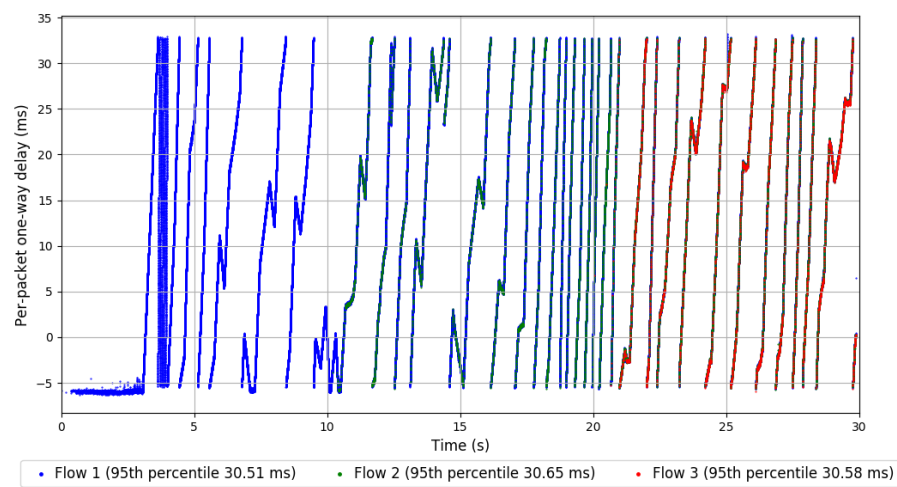
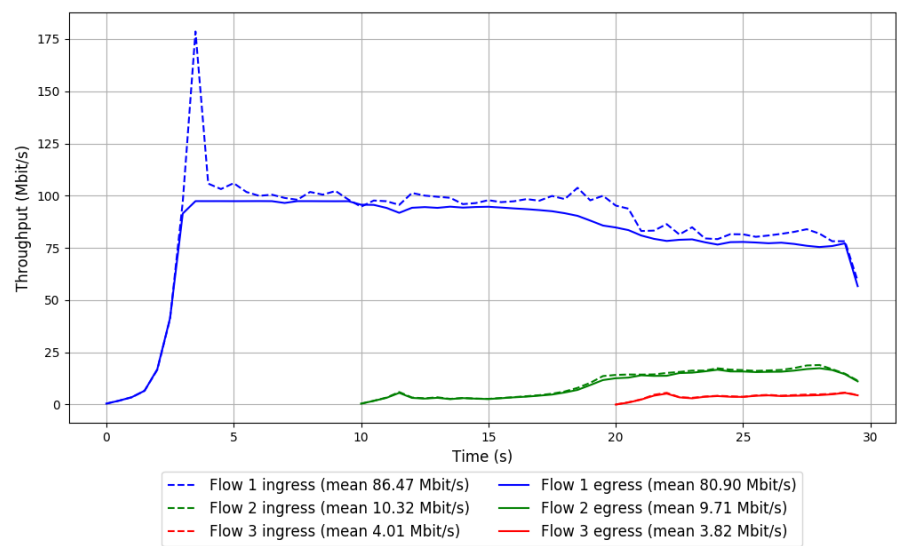


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-04 23:11:50
End at: 2018-02-04 23:12:20
Local clock offset: -0.566 ms
Remote clock offset: 11.747 ms

# Below is generated by plot.py at 2018-02-05 03:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 30.518 ms
Loss rate: 6.34%
-- Flow 1:
Average throughput: 80.90 Mbit/s
95th percentile per-packet one-way delay: 30.507 ms
Loss rate: 6.40%
-- Flow 2:
Average throughput: 9.71 Mbit/s
95th percentile per-packet one-way delay: 30.652 ms
Loss rate: 5.86%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 30.578 ms
Loss rate: 4.96%
```

Run 1: Report of Vivace-loss — Data Link

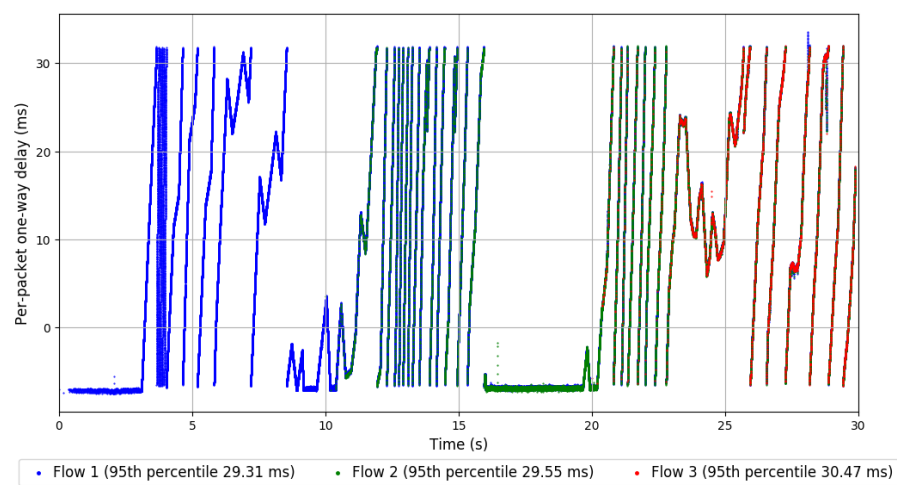
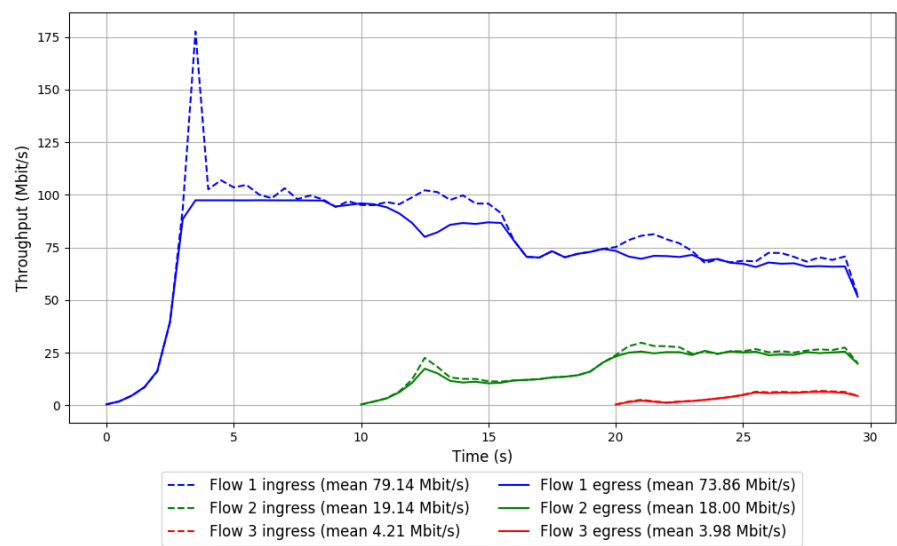


Run 2: Statistics of Vivace-loss

Start at: 2018-02-04 23:36:46
End at: 2018-02-04 23:37:16
Local clock offset: -0.563 ms
Remote clock offset: 12.118 ms

Below is generated by plot.py at 2018-02-05 03:41:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 29.373 ms
Loss rate: 6.48%
-- Flow 1:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 29.313 ms
Loss rate: 6.60%
-- Flow 2:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 29.546 ms
Loss rate: 5.90%
-- Flow 3:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 30.474 ms
Loss rate: 5.23%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-05 00:01:17

End at: 2018-02-05 00:01:47

Local clock offset: 2.173 ms

Remote clock offset: 7.588 ms

Below is generated by plot.py at 2018-02-05 03:41:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.01 Mbit/s

95th percentile per-packet one-way delay: 28.928 ms

Loss rate: 6.52%

-- Flow 1:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 28.906 ms

Loss rate: 6.54%

-- Flow 2:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 29.183 ms

Loss rate: 5.94%

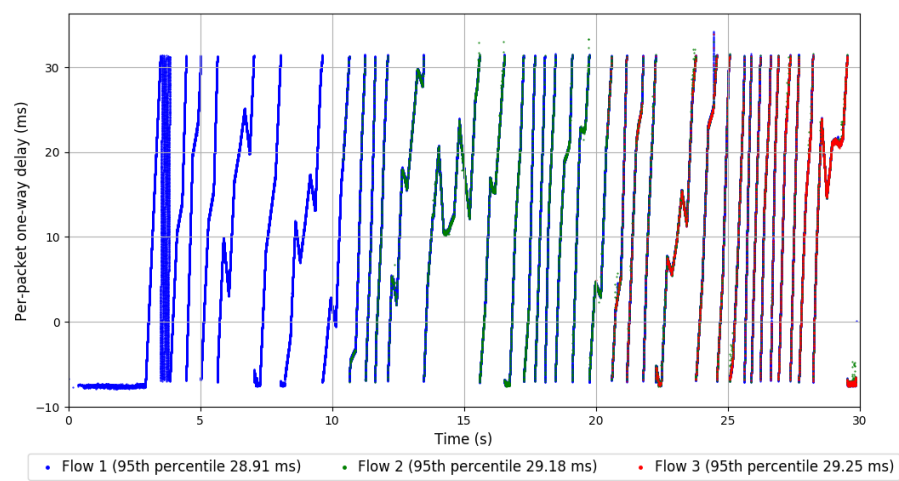
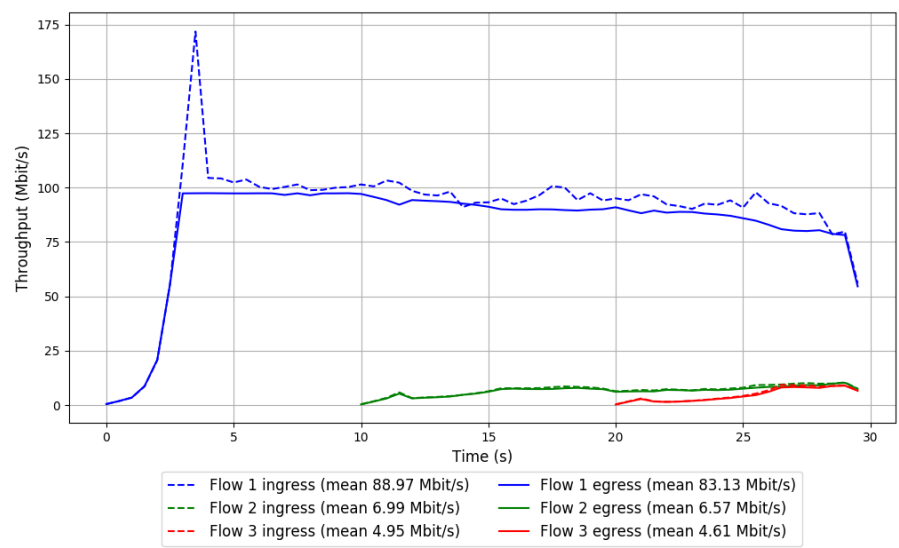
-- Flow 3:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 29.252 ms

Loss rate: 7.10%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-05 00:26:20

End at: 2018-02-05 00:26:50

Local clock offset: 1.703 ms

Remote clock offset: 4.364 ms

Below is generated by plot.py at 2018-02-05 03:42:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 31.653 ms

Loss rate: 6.30%

-- Flow 1:

Average throughput: 81.13 Mbit/s

95th percentile per-packet one-way delay: 31.657 ms

Loss rate: 6.44%

-- Flow 2:

Average throughput: 11.03 Mbit/s

95th percentile per-packet one-way delay: 31.577 ms

Loss rate: 4.98%

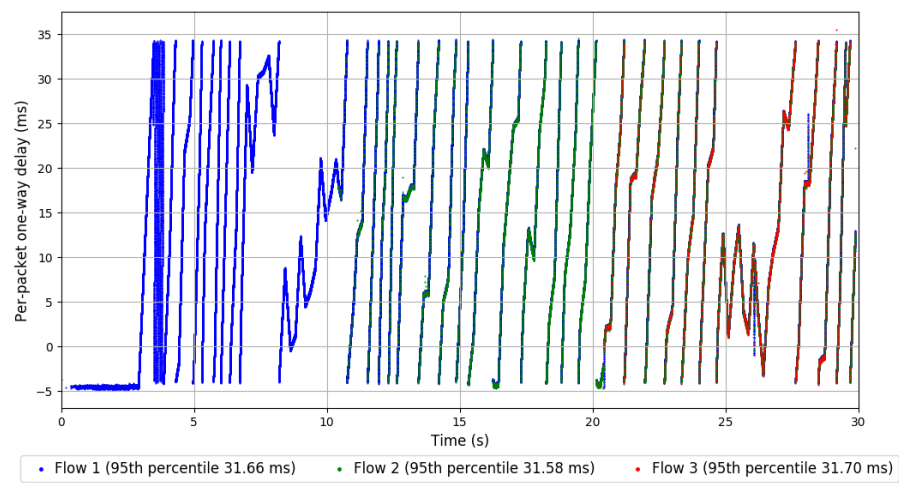
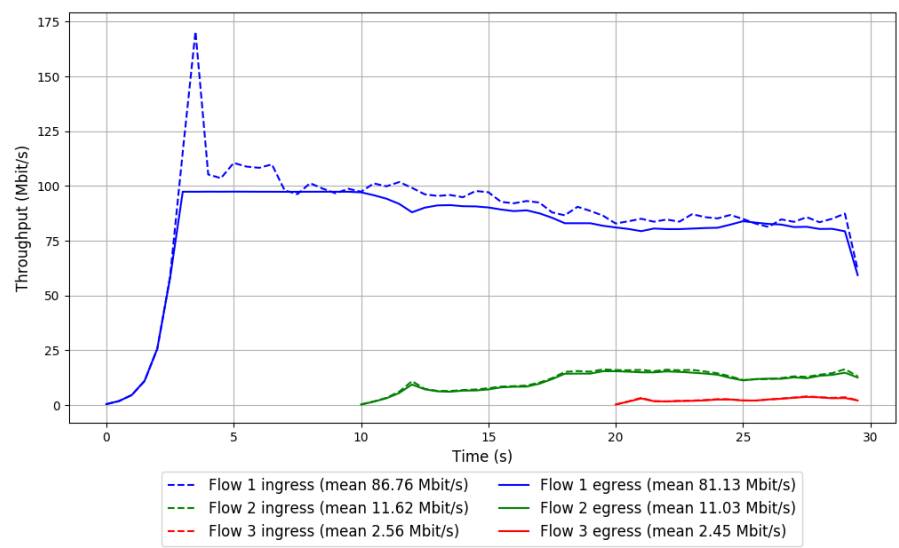
-- Flow 3:

Average throughput: 2.45 Mbit/s

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

Loss rate: 4.45%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-05 00:51:25

End at: 2018-02-05 00:51:55

Local clock offset: 1.31 ms

Remote clock offset: 3.854 ms

Below is generated by plot.py at 2018-02-05 03:42:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 32.251 ms

Loss rate: 5.83%

-- Flow 1:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 32.052 ms

Loss rate: 5.76%

-- Flow 2:

Average throughput: 8.60 Mbit/s

95th percentile per-packet one-way delay: 32.731 ms

Loss rate: 5.63%

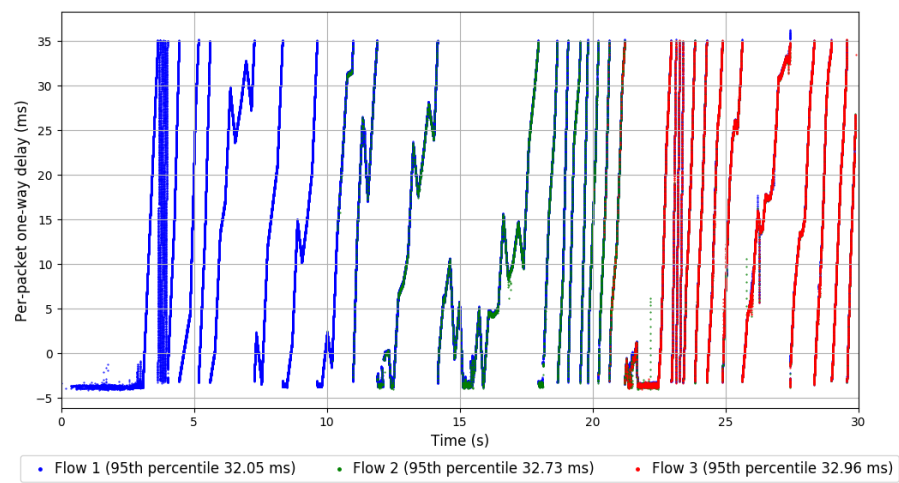
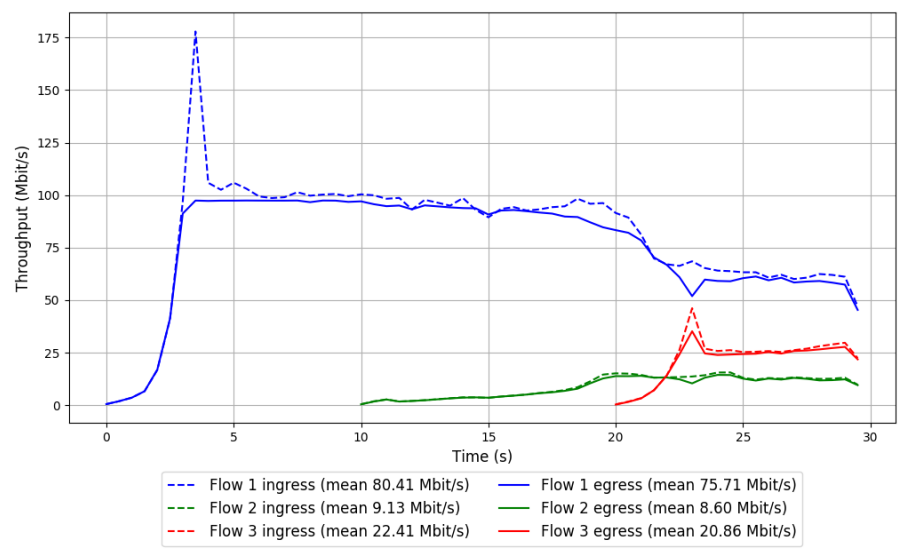
-- Flow 3:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 32.958 ms

Loss rate: 6.77%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-05 01:16:11

End at: 2018-02-05 01:16:41

Local clock offset: 2.0 ms

Remote clock offset: 1.842 ms

Below is generated by plot.py at 2018-02-05 03:42:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.36 Mbit/s

95th percentile per-packet one-way delay: 28.764 ms

Loss rate: 5.27%

-- Flow 1:

Average throughput: 77.47 Mbit/s

95th percentile per-packet one-way delay: 28.795 ms

Loss rate: 5.43%

-- Flow 2:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 28.526 ms

Loss rate: 3.88%

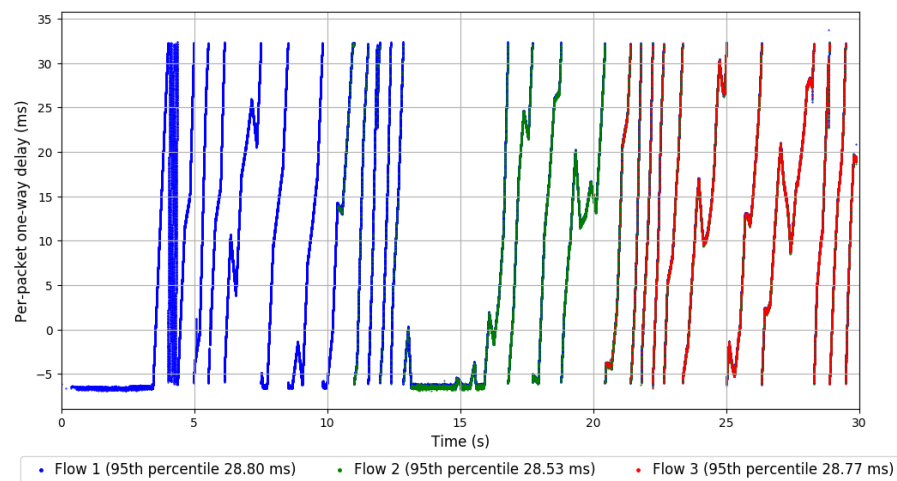
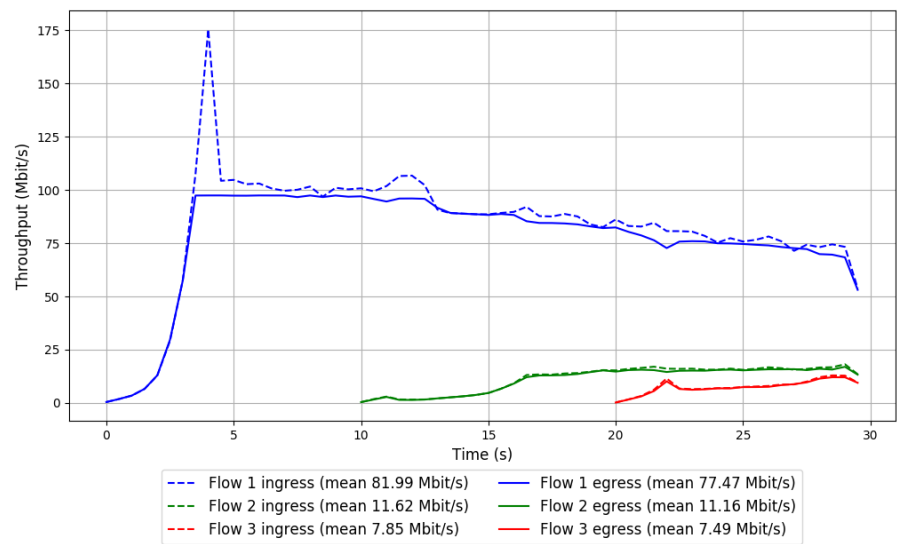
-- Flow 3:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 28.773 ms

Loss rate: 4.56%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-05 01:40:36

End at: 2018-02-05 01:41:06

Local clock offset: 1.506 ms

Remote clock offset: 4.059 ms

Below is generated by plot.py at 2018-02-05 03:42:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 30.853 ms

Loss rate: 6.85%

-- Flow 1:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 30.768 ms

Loss rate: 6.83%

-- Flow 2:

Average throughput: 14.28 Mbit/s

95th percentile per-packet one-way delay: 31.154 ms

Loss rate: 6.72%

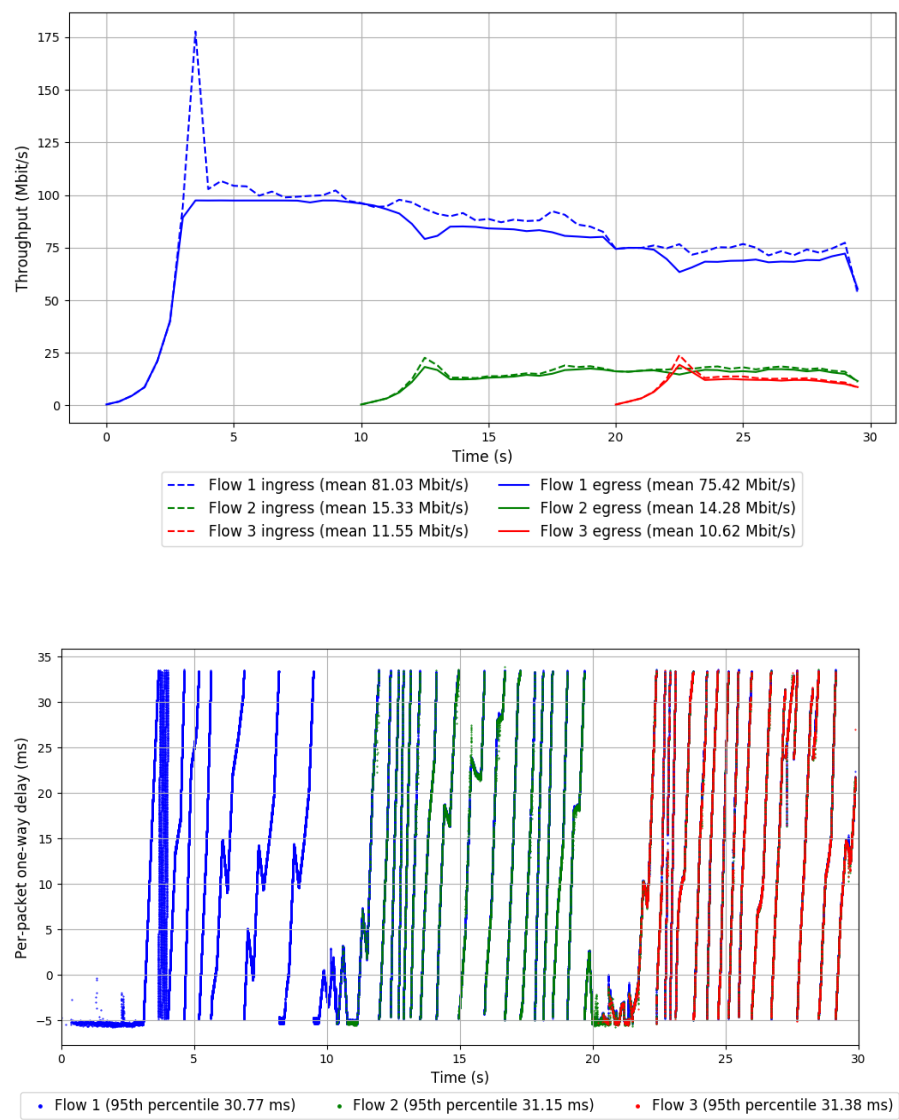
-- Flow 3:

Average throughput: 10.62 Mbit/s

95th percentile per-packet one-way delay: 31.378 ms

Loss rate: 7.70%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-05 02:05:48

End at: 2018-02-05 02:06:18

Local clock offset: 2.511 ms

Remote clock offset: 2.682 ms

Below is generated by plot.py at 2018-02-05 03:42:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.51 Mbit/s

95th percentile per-packet one-way delay: 29.495 ms

Loss rate: 5.35%

-- Flow 1:

Average throughput: 80.20 Mbit/s

95th percentile per-packet one-way delay: 29.412 ms

Loss rate: 5.41%

-- Flow 2:

Average throughput: 11.39 Mbit/s

95th percentile per-packet one-way delay: 30.096 ms

Loss rate: 4.75%

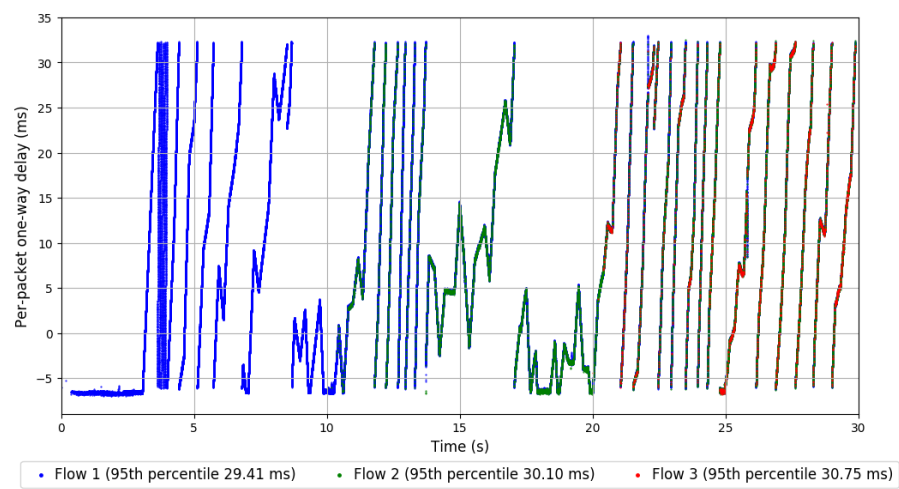
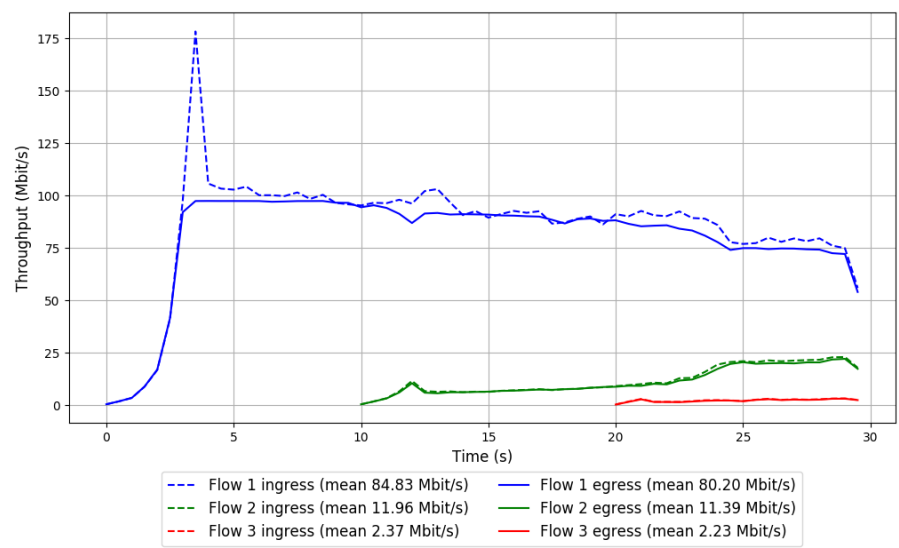
-- Flow 3:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 30.754 ms

Loss rate: 5.63%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-05 02:30:33

End at: 2018-02-05 02:31:03

Local clock offset: 0.007 ms

Remote clock offset: 2.472 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.58 Mbit/s

95th percentile per-packet one-way delay: 31.605 ms

Loss rate: 7.86%

-- Flow 1:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 31.591 ms

Loss rate: 7.97%

-- Flow 2:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 31.750 ms

Loss rate: 7.38%

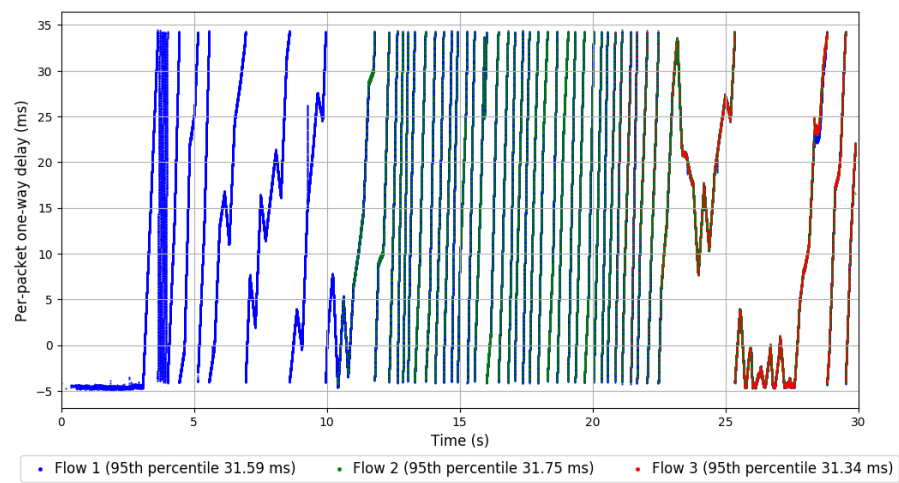
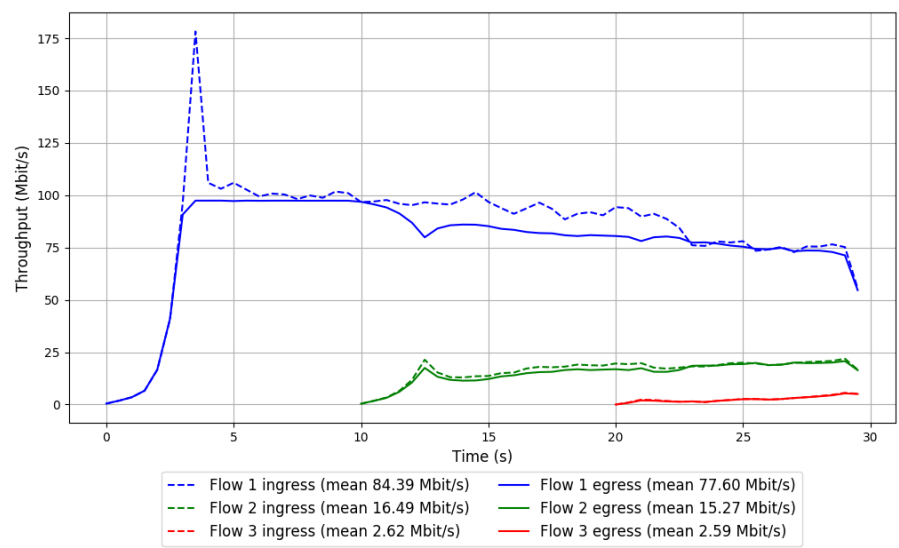
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 31.344 ms

Loss rate: 4.02%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-05 02:55:24

End at: 2018-02-05 02:55:54

Local clock offset: 2.839 ms

Remote clock offset: 1.876 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.29 Mbit/s

95th percentile per-packet one-way delay: 27.638 ms

Loss rate: 6.63%

-- Flow 1:

Average throughput: 78.95 Mbit/s

95th percentile per-packet one-way delay: 27.568 ms

Loss rate: 6.47%

-- Flow 2:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 28.044 ms

Loss rate: 6.88%

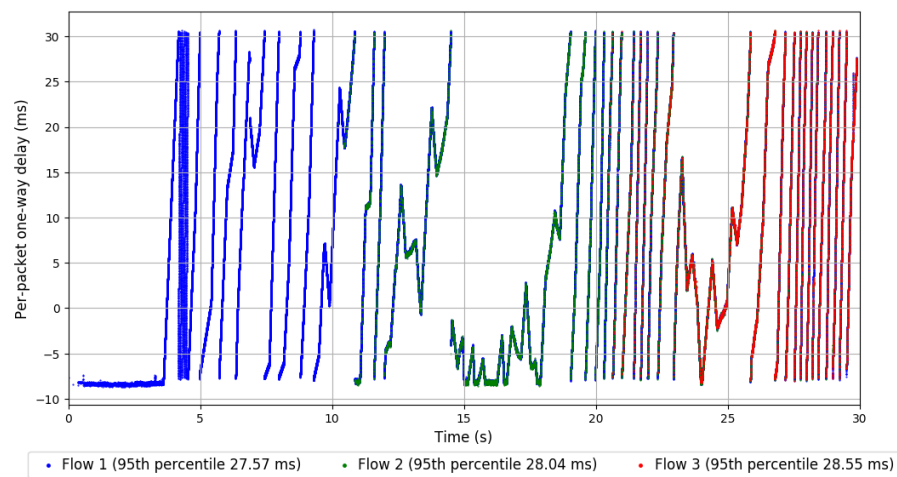
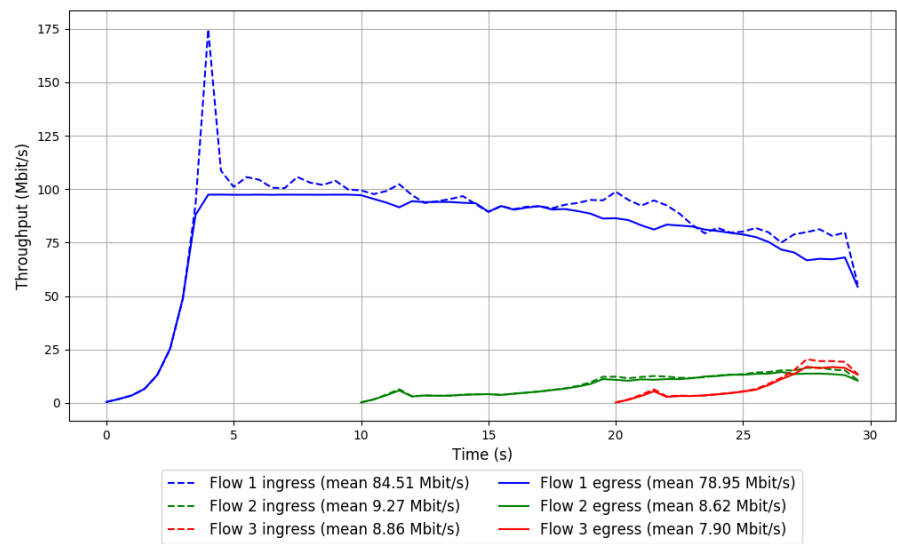
-- Flow 3:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 28.548 ms

Loss rate: 10.50%

Run 10: Report of Vivace-loss — Data Link

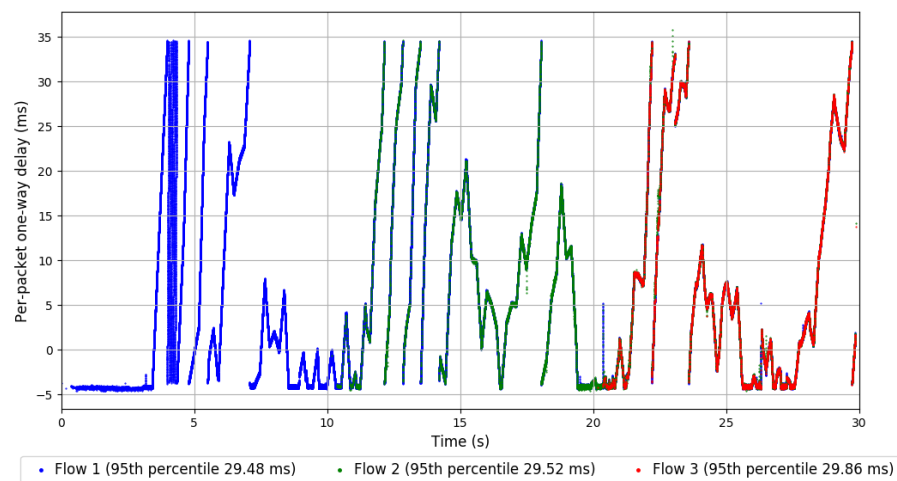
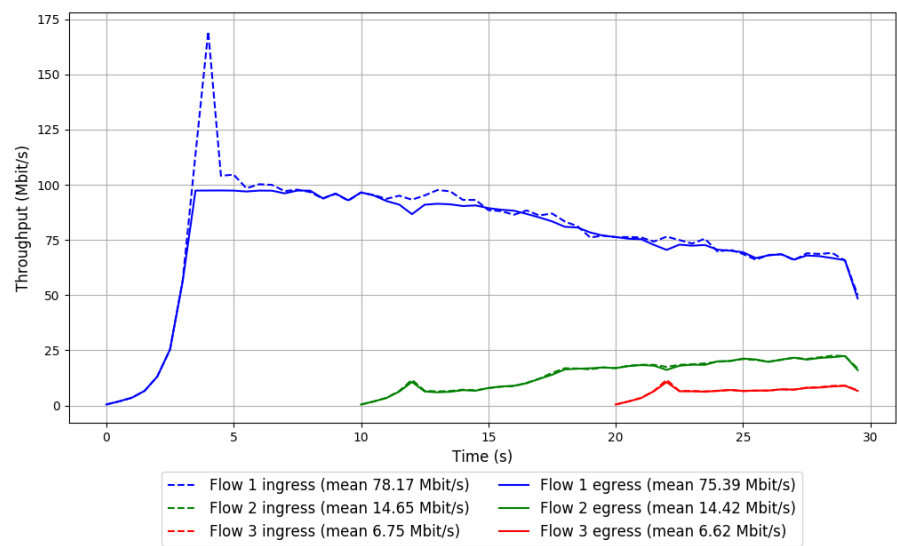


Run 1: Statistics of Vivace-LTE

Start at: 2018-02-04 23:09:00
End at: 2018-02-04 23:09:30
Local clock offset: -1.524 ms
Remote clock offset: 12.135 ms

Below is generated by plot.py at 2018-02-05 03:43:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 29.502 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 29.479 ms
Loss rate: 3.54%
-- Flow 2:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 29.520 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 29.856 ms
Loss rate: 1.75%

Run 1: Report of Vivace-LTE — Data Link

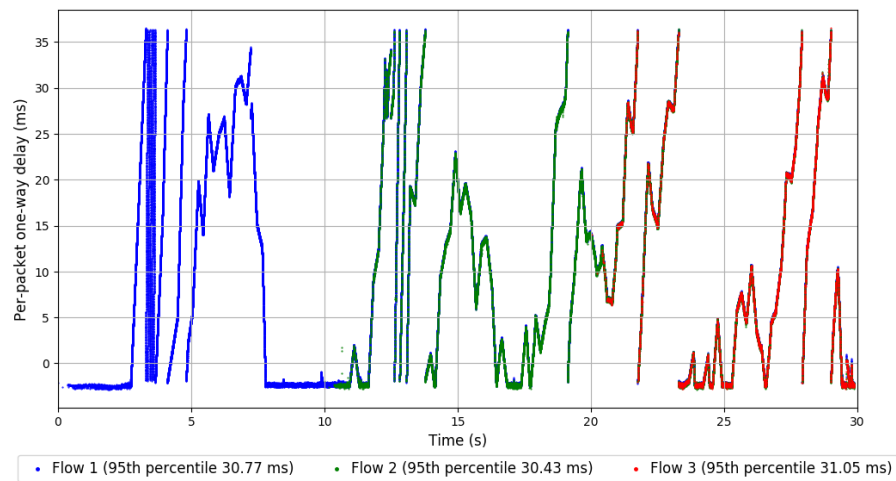
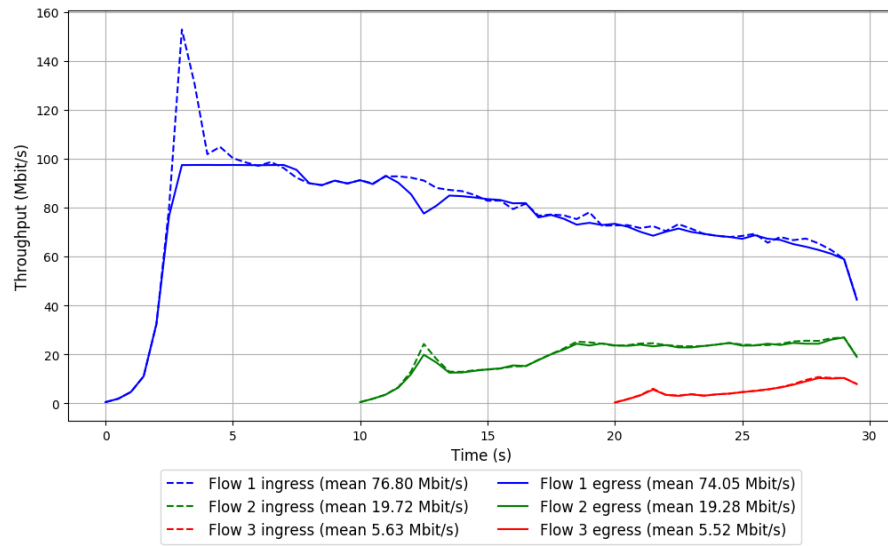


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-04 23:34:01
End at: 2018-02-04 23:34:31
Local clock offset: -3.362 ms
Remote clock offset: 14.441 ms

Below is generated by plot.py at 2018-02-05 03:43:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.70 Mbit/s
95th percentile per-packet one-way delay: 30.747 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 30.766 ms
Loss rate: 3.58%
-- Flow 2:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 30.429 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 5.52 Mbit/s
95th percentile per-packet one-way delay: 31.050 ms
Loss rate: 2.18%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-04 23:58:34

End at: 2018-02-04 23:59:04

Local clock offset: -1.099 ms

Remote clock offset: 6.807 ms

Below is generated by plot.py at 2018-02-05 03:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 28.708 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 75.79 Mbit/s

95th percentile per-packet one-way delay: 28.681 ms

Loss rate: 3.91%

-- Flow 2:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 28.916 ms

Loss rate: 2.42%

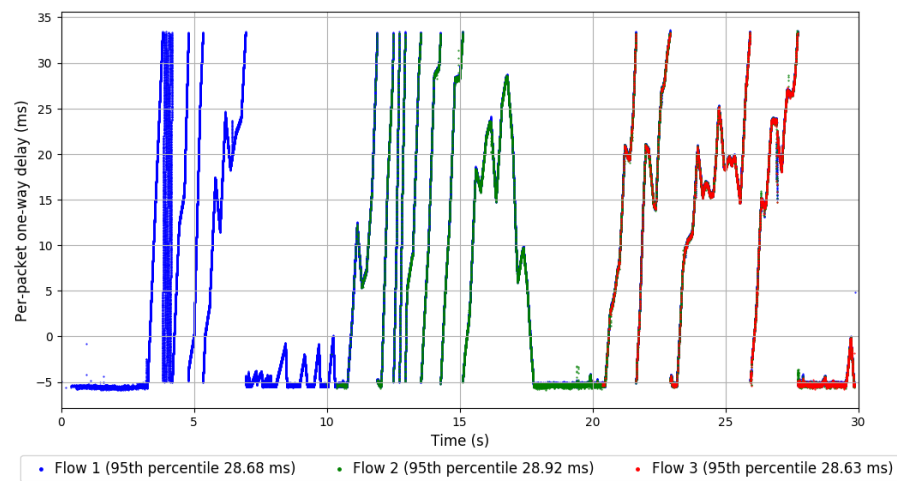
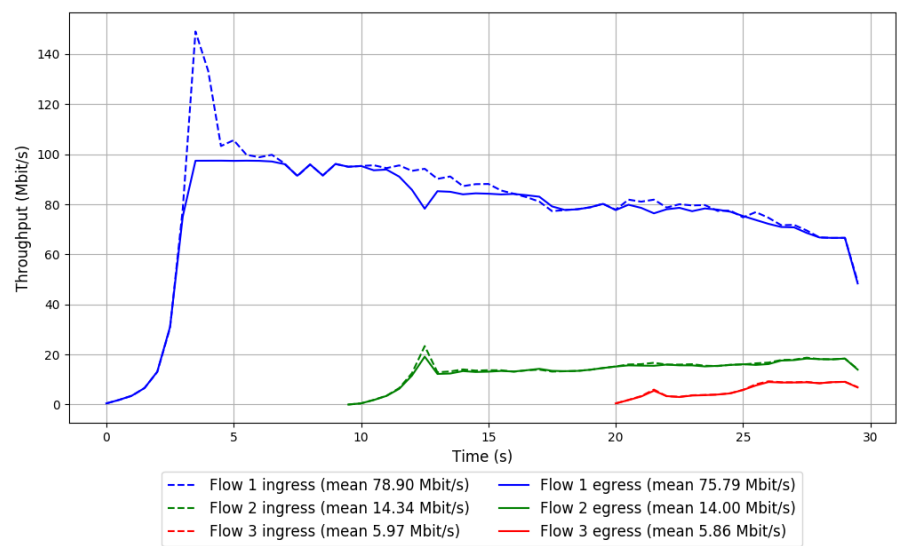
-- Flow 3:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 28.628 ms

Loss rate: 1.88%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-05 00:23:22

End at: 2018-02-05 00:23:53

Local clock offset: 4.054 ms

Remote clock offset: 5.071 ms

Below is generated by plot.py at 2018-02-05 03:43:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.45 Mbit/s

95th percentile per-packet one-way delay: 28.981 ms

Loss rate: 4.64%

-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 28.842 ms

Loss rate: 4.97%

-- Flow 2:

Average throughput: 16.83 Mbit/s

95th percentile per-packet one-way delay: 29.196 ms

Loss rate: 2.90%

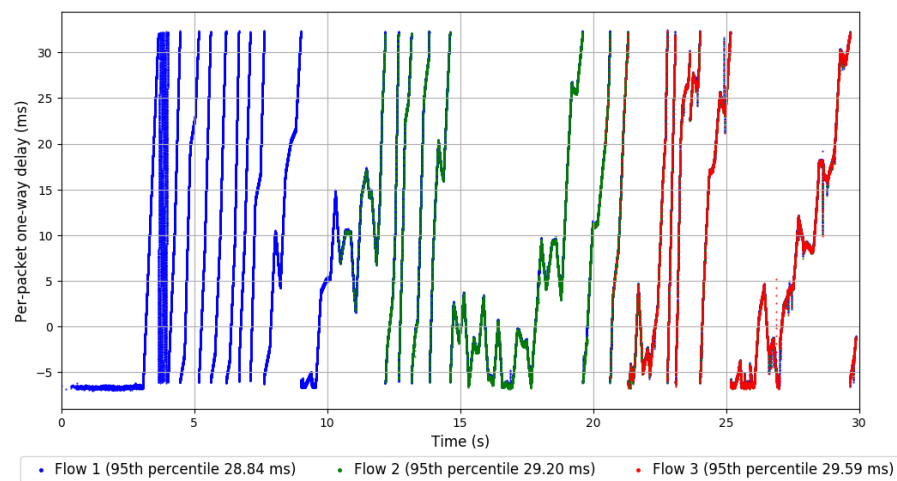
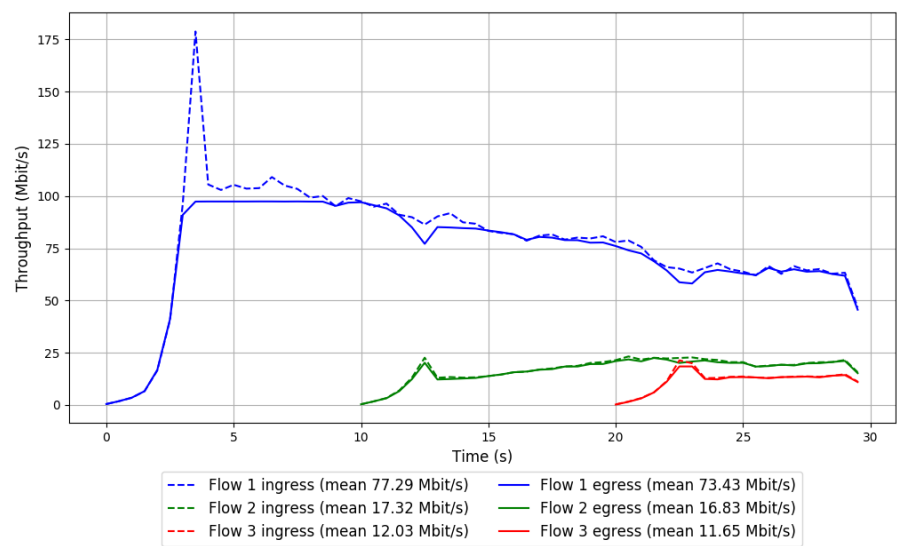
-- Flow 3:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 29.593 ms

Loss rate: 3.30%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-05 00:48:36

End at: 2018-02-05 00:49:06

Local clock offset: 2.084 ms

Remote clock offset: 3.857 ms

Below is generated by plot.py at 2018-02-05 03:44:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.75 Mbit/s

95th percentile per-packet one-way delay: 28.267 ms

Loss rate: 5.29%

-- Flow 1:

Average throughput: 72.08 Mbit/s

95th percentile per-packet one-way delay: 27.502 ms

Loss rate: 4.90%

-- Flow 2:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 28.692 ms

Loss rate: 4.85%

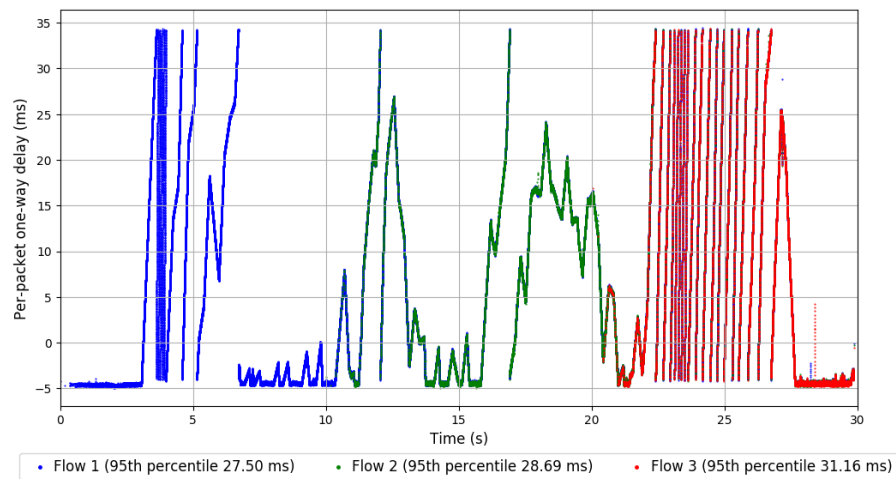
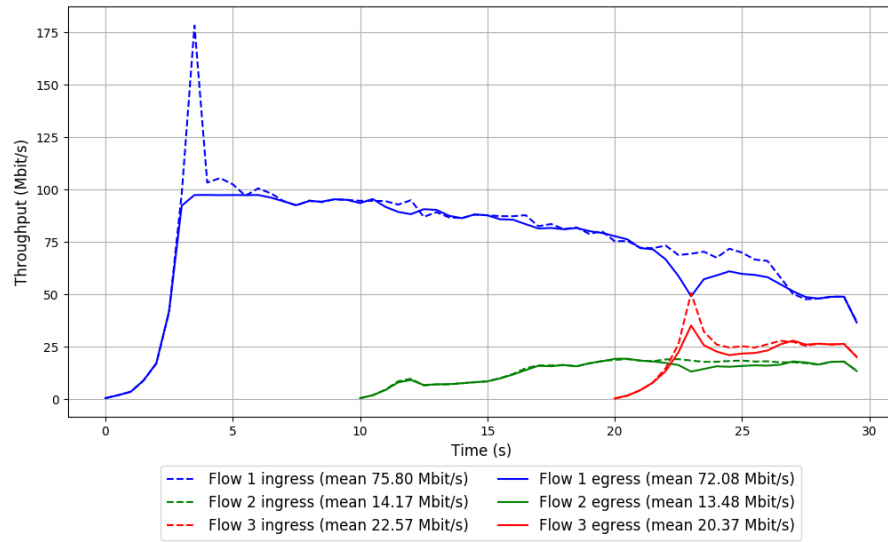
-- Flow 3:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 31.165 ms

Loss rate: 9.91%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-05 01:13:27

End at: 2018-02-05 01:13:57

Local clock offset: 0.819 ms

Remote clock offset: 0.732 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.24 Mbit/s

95th percentile per-packet one-way delay: 28.689 ms

Loss rate: 4.10%

-- Flow 1:

Average throughput: 75.92 Mbit/s

95th percentile per-packet one-way delay: 28.431 ms

Loss rate: 4.16%

-- Flow 2:

Average throughput: 16.04 Mbit/s

95th percentile per-packet one-way delay: 29.586 ms

Loss rate: 3.57%

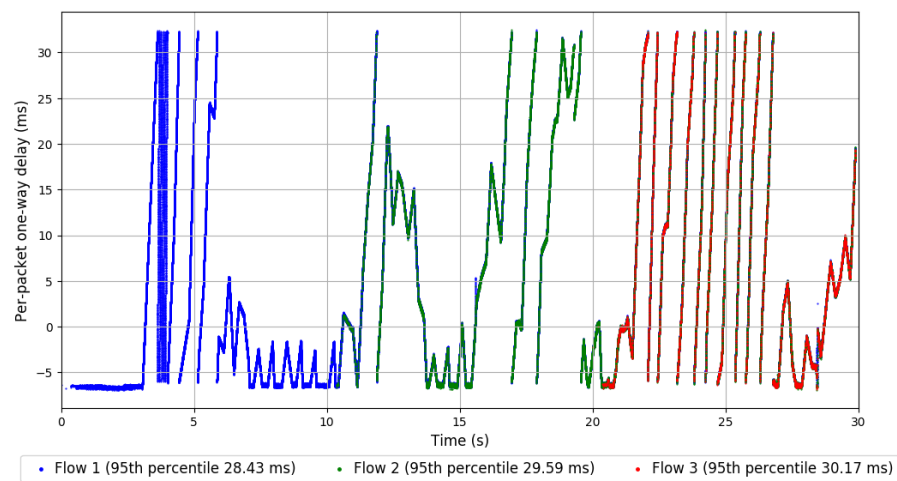
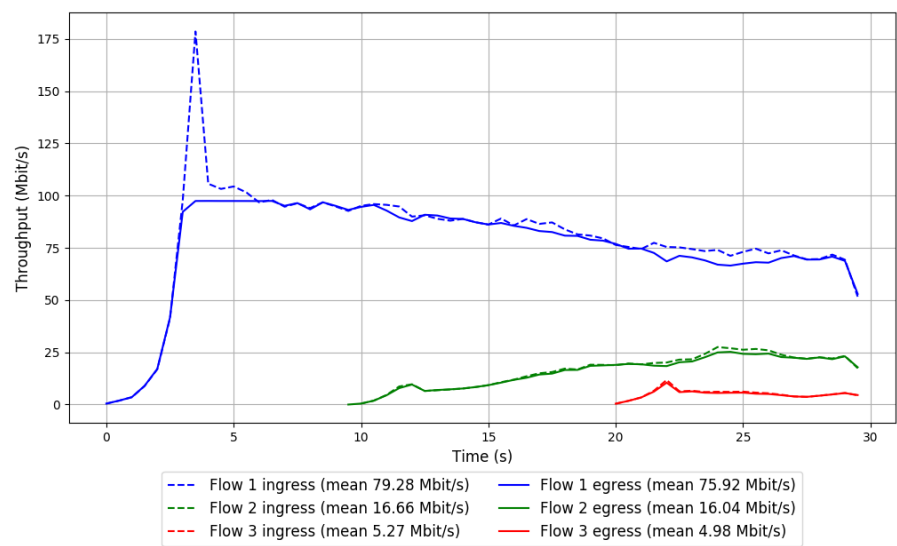
-- Flow 3:

Average throughput: 4.98 Mbit/s

95th percentile per-packet one-way delay: 30.168 ms

Loss rate: 5.22%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-05 01:37:51

End at: 2018-02-05 01:38:21

Local clock offset: 0.827 ms

Remote clock offset: 3.477 ms

Below is generated by plot.py at 2018-02-05 03:44:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.83 Mbit/s

95th percentile per-packet one-way delay: 29.488 ms

Loss rate: 4.20%

-- Flow 1:

Average throughput: 74.11 Mbit/s

95th percentile per-packet one-way delay: 29.520 ms

Loss rate: 4.33%

-- Flow 2:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 29.136 ms

Loss rate: 3.42%

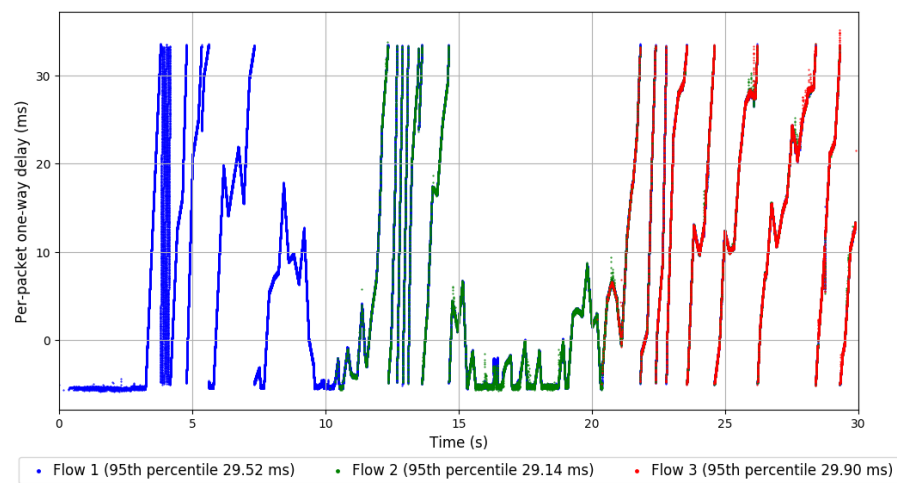
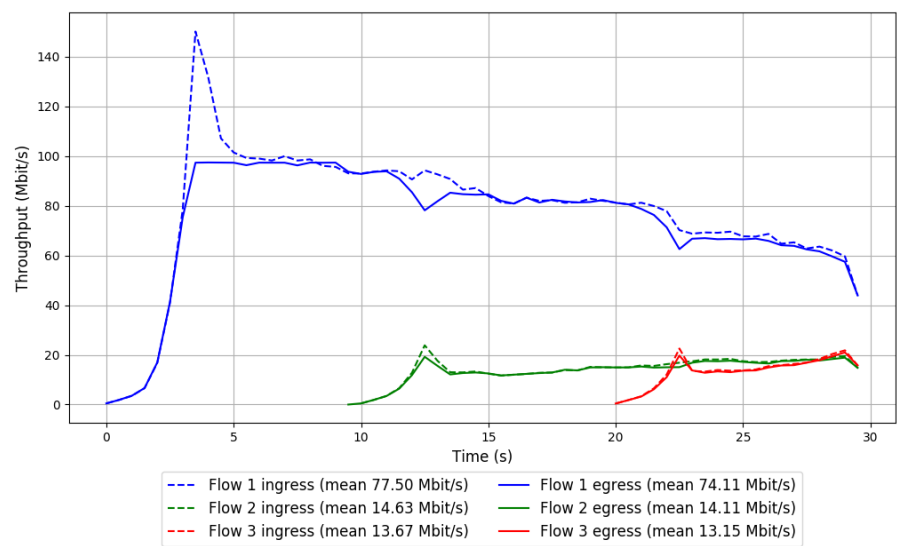
-- Flow 3:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 29.899 ms

Loss rate: 3.63%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

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

End at: 2018-02-05 02:03:21

Local clock offset: 1.41 ms

Remote clock offset: 1.969 ms

Below is generated by plot.py at 2018-02-05 03:44:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 28.285 ms

Loss rate: 3.60%

-- Flow 1:

Average throughput: 74.49 Mbit/s

95th percentile per-packet one-way delay: 28.211 ms

Loss rate: 3.76%

-- Flow 2:

Average throughput: 15.82 Mbit/s

95th percentile per-packet one-way delay: 28.533 ms

Loss rate: 2.70%

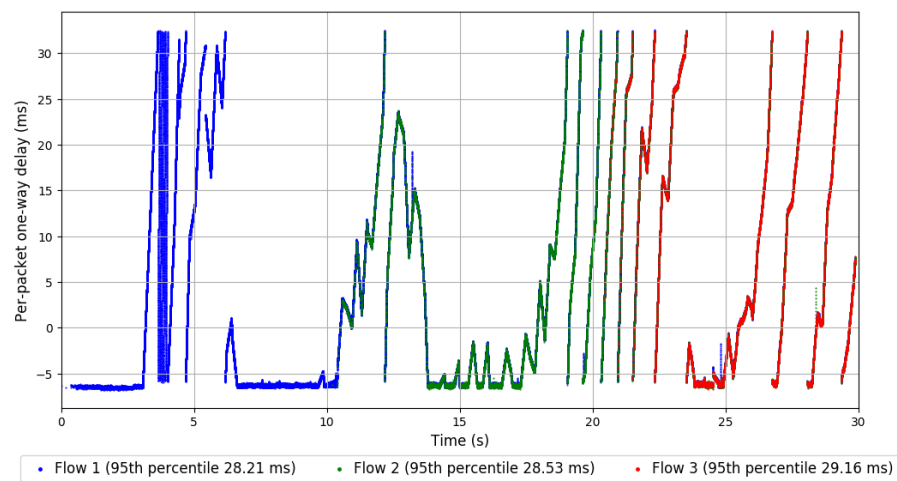
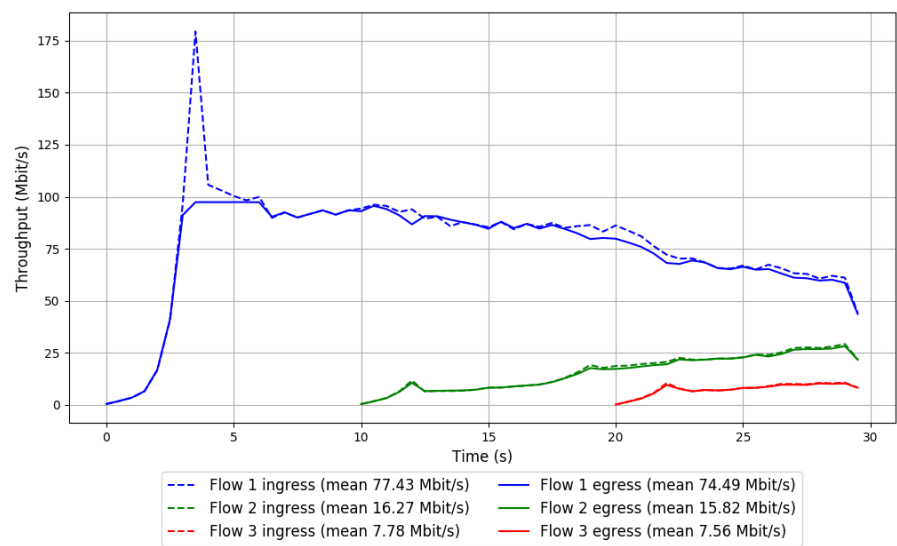
-- Flow 3:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 29.163 ms

Loss rate: 2.79%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-05 02:27:51

End at: 2018-02-05 02:28:21

Local clock offset: 1.491 ms

Remote clock offset: 2.198 ms

Below is generated by plot.py at 2018-02-05 03:44:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 27.814 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 74.56 Mbit/s

95th percentile per-packet one-way delay: 28.060 ms

Loss rate: 3.79%

-- Flow 2:

Average throughput: 13.91 Mbit/s

95th percentile per-packet one-way delay: 24.296 ms

Loss rate: 2.25%

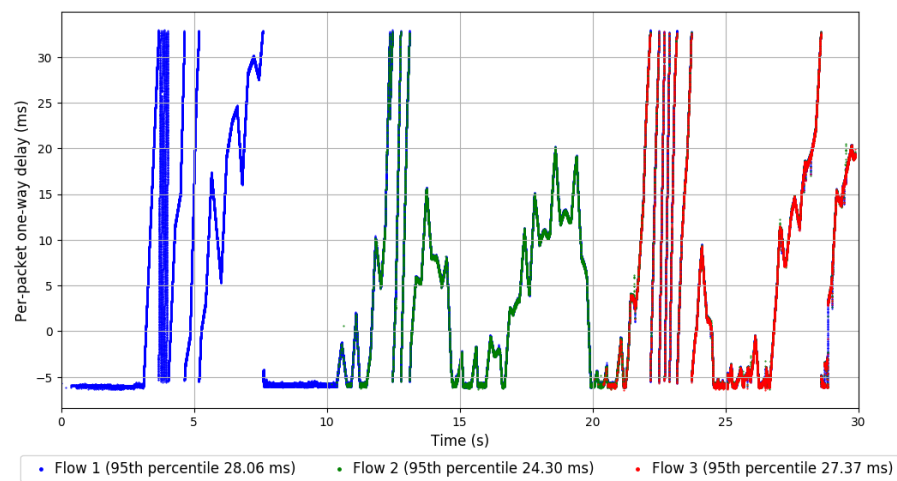
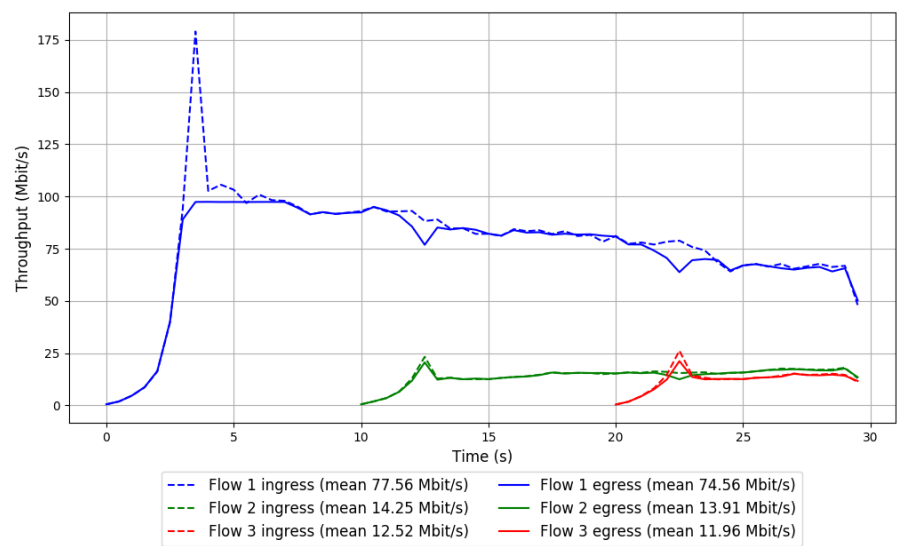
-- Flow 3:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 27.369 ms

Loss rate: 4.19%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-05 02:52:39

End at: 2018-02-05 02:53:09

Local clock offset: 0.688 ms

Remote clock offset: 3.202 ms

Below is generated by plot.py at 2018-02-05 03:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 29.293 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 29.173 ms

Loss rate: 3.78%

-- Flow 2:

Average throughput: 15.71 Mbit/s

95th percentile per-packet one-way delay: 29.754 ms

Loss rate: 2.51%

-- Flow 3:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 30.151 ms

Loss rate: 4.00%

Run 10: Report of Vivace-LTE — Data Link

